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PART I
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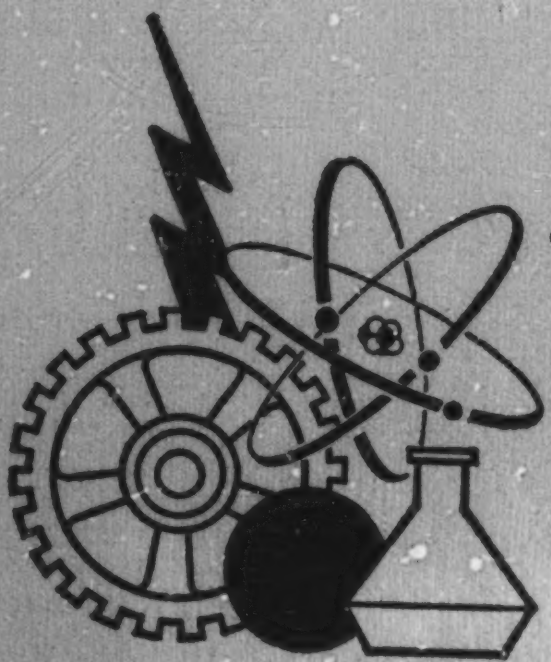

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Cordes, William F., III; and Turner, Edwin, 4,677,043, Cl. 430-22.000.
Grunwald, John J.; and Spencer, Allen C., 4,701,390, Cl. 430-325.000.
Kunces, David J., 4,699,811, Cl. 427-259.000.
Slominski, Leo J., 4,671,968, Cl. 427-12.000.
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MacDon Industries Ltd.: *See*—
Patterson, Roger L., 4,662,161, Cl. 56-228.000.
Remillard, Rheal; and Molzahn, Herbert W., 4,660,361, Cl. 56-297.000.

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MacDonald, Donald C., to GTE Government Systems Corporation. Fiber optic connector epoxy curing apparatus. 4,713,523, 12-15-87, Cl. 219-385.000.

MacDonald, Donald K. Impact nailing and dimpling apparatus. 4,666,074, 5-19-87, Cl. 227-66.000.

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Bennett, Ronald W.; and MacDonald, Ellie H., 4,679,657, Cl. 182-113.000.

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MacDonald, Roderick J. Flare stack ignitor. 4,711,629, 12-8-87, Cl. 431-264.000.

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MacDougall, Frederick W.; and Murphy, Thomas A., to Aerovox Incorporated. Segmented capacitor. 4,694,377, 9-15-87, Cl. 361-275.000.
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MacDougall, Maurice L.: *See*—
Woollam, Ronald F.; and MacDougall, Maurice L., 4,686,907, Cl. 105-4.100.
MacDowell, John F.: *See*—
Beall, George H.; and MacDowell, John F., 4,666,867, Cl. 501-5.000.
MacDuff, Robert B.: *See*—
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MacDuffee, Richard J. Collapsible support frame with receptacle. 4,638,967, 1-27-87, Cl. 248-97.000.
Mace, Bobby. Finger grip insert for bowling ball. 4,699,380, 10-13-87, Cl. 273-63.00A.
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Mace, Robert E.: *See*—
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Mace, Vincent, to M & M Displays. Display frame. 4,702,025, 10-27-87, Cl. 40-156.000.
Mace, William A.: *See*—
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Macey, James P.; and Vahabzadeh, Hamid, to General Motors Corporation. Geared-neutral continuously variable transmission. 4,644,820, 2-24-87, Cl. 74-689.000.
Macey, Keith S.: *See*—
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MacFall, James R.; and Glover, Gary H., to General Electric Company. Method of enhancing image signal-to-noise ratio by combining NMR images of differing pulse sequence timing. 4,709,212, 11-24-87, Cl. 324-309.000.
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MacFarlane, Jerauld C.: *See*—
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MacGregor, Howard S. Fine trim adjustment for manually tilted outboard motor. 4,682,959, 7-28-87, Cl. 440-53.000.
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Machamer, George A. Resonator comprising a coil formed of multiple layer alternately arranged conductive turns. 4,638,270, 1-20-87, Cl. 333-175.000.
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Honda, Chika; Suzuki, Akio; Machida, Katsutoshi; and Iwata, Masatoshi, 4,639,417, Cl. 430-567.000.

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Aoki, Daiichi; Nakamura, Yoshinori; Orimoto, Hiroyuki; and Machida, Kazumi, 4,680,208, Cl. 428-35.000.

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Machida, Yoshimasa: *See*—
Saito, Isao; Nomoto, Seiichiro; Kamiya, Takashi; Yamauchi, Hiroshi; Sugiyama, Isao; Machida, Yoshimasa; and Negi, Shigeto, 4,698,336, Cl. 514-202.000.

Machida, Yoshinori: *See*—
Shibata, Masahiro; Tsujibayashi, Tatsuo; Sato, Hiroyuki; and Machida, Yoshinori, 4,682,245, Cl. 358-311.000.

Machida, Yoshio; and Kasugai, Takao, to Kabushiki Kaisha Toshiba. Nuclear magnetic resonance system. 4,709,211, 11-24-87, Cl. 324-309.000.

Machida, Yozo: *See*—
Nakanishi, Toru; and Machida, Yozo, 4,636,464, Cl. 435-14.000.

Machida, Yukihiko: *See*—
Ishihara, Mitsugu; and Machida, Yukihiko, 4,713,702, Cl. 360-79.000.

Machihara, Akio: *See*—
Ueda, Koutarou; Hasegawa, Noboru; Machihara, Akio; Kusaka, Masaharu; Orii, Kohei; and Noguchi, Yoshiro, 4,692,197, Cl. 156-189.000.

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Machii, Tomomi: *See*—
Hirose, Takeo; Tsutsumikoshi, Shinobu; and Machii, Tomomi, 4,699,229, Cl. 180-9.210.

Machin, David: *See*—
Martin, Alexander; Overton, Colin; and Machin, David, 4,666,622, Cl. 252-99.000.

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Moore, L. Bruce, 4,653,739, Cl. 269-61.000.

Machine Technology, Inc.: *See*—
Paulfus, Bernard, 4,674,521, Cl. 134-167.00R.
Riehl, Roger W., 4,711,610, Cl. 409-141.000.
Rubin, Richard H.; Hillman, Gary; Zarr, Lewis E.; and Hayes, William K., 4,685,852, Cl. 414-404.000.
Spencer, John E.; Borel, Richard A.; Linxwiler, Kenneth E.; and Hoff, Andrew M., 4,673,456, Cl. 156-345.000.
Strahl, Thomas L., 4,664,935, Cl. 427-38.000.

Machine Vision International Corporation: *See*—
Sternberg, Stanley R., 4,641,356, Cl. 382-49.000.
Sternberg, Stanley R.; Herteg, Glenn; Koskella, Martin P.; and Berla, Timothy S., 4,665,551, Cl. 382-49.000.
Sternberg, Stanley R., 4,665,554, Cl. 382-27.000.

Machinefabriek Lan B.V.: *See*—
Langen, Hermann J., 4,636,366, Cl. 422-297.000.

Machinenfabrik Rieter AG: *See*—
Lattion, Andre, 4,655,665, Cl. 414-112.000.

Machines Chambon S.A.: *See*—
Michel, Armelin, 4,711,176, Cl. 101-365.000.
Sheath, Jeremy C.; and Hodges, William D., 4,643,130, Cl. 118-681.000.

Machines Corporation: *See*—
Foster, Gregory J., 4,648,061, Cl. 364-900.000.

Machines Outils Wirth et Gruffat: *See*—
Quinart, Pierre; Schoellhammer, Georges; Tableau, Pierre; and Vivien, Francois, 4,704,773, Cl. 29-27.00C.

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Ise, Masahiro; Tanaka, Hidehiko; Machino, Katsuyuki; Matsubara, Toshiyuki; and Terasaka, Teiji, 4,675,668, Cl. 340-825.080.

Machino, Takami; and Kikuchi, Akira, to Nippon Seiko Kabushiki Kaisha. Vehicle wheel bearing mounted pulser. 4,667,156, 5-19-87, Cl. 324-173.000.

Machiya, Akira: *See*—
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Machizawa, Kenji: *See*—
Kunugi, Yoshifumi; Sugimoto, Shigeo; Kohno, Kyoji; Ouchi, Tomihisa; and Machizawa, Kenji, 4,655,052, Cl. 62-476.000.

Machler, Meinrad; Sachse, Richard; and Schlemmer, Harry, to Carl-Zeiss-Stiftung. Through-flow cuvette. 4,643,570, 2-17-87, Cl. 356-246.000.

Machler, Meinrad; Bittner, Reinhold; Gluck, Franz; Schlemmer, Harry; and Sachse, Richard, to Carl-Zeiss-Stiftung. Method of assembling the optical components of an optical apparatus and a device therefor. 4,644,632, 2-24-87, Cl. 29-469.000.

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Machler, Meinrad, to Carl-Zeiss-Stiftung. Chassis for optical instruments. 4,709,989, 12-1-87, Cl. 350-321.000.

Machlett Laboratories, Incorporated, The: *See*—
Braun, Martin, 4,637,042, Cl. 378-143.000.
Scribano, Frank C., 4,665,542, Cl. 378-176.000.

Machmer, Wilhelm: *See*—
von Laar, Klaus; Machmer, Wilhelm; and Winter, Cavit, 4,669,357, Cl. 89-40.020.

Macho Products, Inc.: *See*—
Cho, Soo S., 4,697,286, Cl. 2-22.000.
Cho, Soo S., 4,706,305, Cl. 2-425.000

Machonis, John, Jr.: *See*—
Shida, Mitsuzo; Machonis, John, Jr.; and Zeitlin, Robert J., 4,675,471, Cl. 174-36.000.

Macht, Alwin: *See*—
Bonisch, Heinz-Jurgen; Brandl, Gerhard; Noor, Sybille; Oehling, Karl-Heinz; Riedl, Walter; Theissen, Mario; Wodiczka, Ernst; and Macht, Alwin, 4,691,670, Cl. 123-52.0MF.

Machurat, Jean: *See*—
Lagarde, Robert; Machurat, Jean; Morawski, Jean-Claude; and Vrisakis, Georges, 4,704,425, Cl. 524-492.000.
Le Ludec, Joel; Machurat, Jean; Morawski, Jean-Claude; and Soula, Gerard, 4,701,492, Cl. 524-493.000.

Machuron, Jean-Yves: *See*—
Frizot, Alain; Cadaureille, Gerard; Lalere, Jean-Christophe; and Machuron, Jean-Yves, 4,694,585, Cl. 33-502.000.
Frizot, Alain; Cadaureille, Gerard; Lalere, Jean-Christophe; and Machuron, Jean-Yves, 4,696,786, Cl. 376-245.000.
Frizot, Alain; Cadaureille, Gerard; Lalere, Jean-Christophe; and Machuron, Jean-Yves, 4,704,801, Cl. 33-502.000.

Machuron, Robert, to Ronic S.A. Speed control circuit for AC motor. 4,673,860, 6-16-87, Cl. 318-812.000.

Macia, Narciso F.: *See*—
Williams, W. Samuel; Hadley, David L.; Macia, Narciso F.; and Blum, Alvin S., 4,665,911, Cl. 128-204.210.

Macias, Jorge: *See*—
Baillie, William R.; Macias, Jorge; and Dressendorfer, Michael, 4,715,669, Cl. 312-12.000.

Maciejewski, Noman. Method of making a hydraulic pump housing. 4,656,710, 4-14-87, Cl. 29-156.4WL.

Maciejko, James J.: *See*—
Crawford, Thomas C.; Keely, Stanley L.; Larson, David L.; Lombardino, Joseph G.; and Maciejko, James J., 4,672,061, Cl. 514-222.000.

Maciejko, Romain: *See*—
Tremblay, Yves; Few, Ian S.; Maciejko, Romain; and Ralston, John D., 4,653,845, Cl. 350-96.160.

Maciejko, Roman; and Tremblay, Yves, to Northern Telecom Limited. Fiber optic access nodes. 4,650,278, 3-17-87, Cl. 350-96.200.

Macier, James E.: *See*—
Breckenfeld, Paul W.; Broughton, George L.; Gibbs, Ronald E.; Macier, James E.; and Petersen, H. Norman, 4,669,988, Cl. 440-88.000.
Broughton, George L.; and Macier, James E., 4,695,261, Cl. 440-900.000.

Macierewicz, Jacek J., to ELP Products Ltd. Unplugging of heavy fraction outlet hydrocyclone. 4,640,780, 2-3-87, Cl. 210-512.200.

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MacIndoe, Robert: *See*—
Young, Chung C.; Coleman, Robert L.; Sullivan, Sheila M.; Grimes, John F.; Baumeister, Ferdnand; MacIndoe, Robert; Catalano, Lou; Coppola, Pat; Spaziani, Fred; Rodomista, Guy; and Fowler, James E., 4,686,479, Cl. 324-439.000.

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Huntjens, Jozef H. G., 4,702,234, Cl. 128-77.000.

Macintyre, Robert M., to Rolls-Royce plc. Metal surface hardening by carbide formation. 4,698,237, 10-6-87, Cl. 427-53.100.

Macioce, Lawrence: *See*—
Coller, James R.; and Macioce, Lawrence, 4,662,694, Cl. 339-275.00T.

Maciocia, Michael J.: *See*—
Long, Stuart G.; and Maciocia, Michael J., 4,677,809, Cl. 53-427.000.
Long, Stuart G.; and Maciocia, Michael J., 4,707,414, Cl. 428-511.000.

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Bradford, Michael P.; and Maciolek, Joseph R., 4,678,401, Cl. 416-32.000.

MacIver, Bernard A.: *See*—
Jain, Kailash C.; and MacIver, Bernard A., 4,652,334, Cl. 156-628.000.

Mack, Alfred: *See*—
Beumer, Karl W.; Gaston, Charles A.; Locke, Charles H.; Mack, Alfred; O'Neill, Brian C.; Pinckney, Warren J.; and Wilson, Alan D., 4,642,438, Cl. 219-121.00L.

Mack, David C.: *See*—
Bantel, Thomas E.; and Mack, David C., 4,644,162, Cl. 250-340.000.

Mack, Ernst: *See*—
Gottfried, Werner; Mack, Ernst; and Witzke, Lothar, 4,659,555, Cl. 423-419.00R.
Sonneborn, Siegfried; Handel, Manfred; Mack, Ernst; Gerstrom, Carl F.; and Sorensen, Peter, 4,654,931, Cl. 16-337.000.

Mack, Gerhard; Mueller, Birgit; Jung, Guenter; and Frass, Werner, to Hoechst Aktiengesellschaft. Developer for preparing printing forms and process therefor. 4,716,098, 12-29-87, Cl. 430-331.000.

Mack, Gerhard: *See*—
Schlogl, Gunter; Mack, Gerhard; and Michel, Manfred, 4,687,726, Cl. 430-175.000.

Mack, Gerry P. Hindered piperidinoalcohol 1,1,1-trioxyalkane stabilizers. 4,668,722, 5-26-87, Cl. 524-103.000.

Mack, Gregory: *See*—
Martinez, Kenneth; and Mack, Gregory, 4,709,377, Cl. 375-75.000.

Mack, Howard S., to Harshaw/Filtrol Partnership. Means for detecting and adjusting metal salt concentration in an electroless plating bath. 4,699,081, 10-13-87, Cl. 118-691.000.

Mack, James F. Position incrementer. 4,686,870, 8-18-87, Cl. 74-828.000.

Mack, Jory B., to Pamco Label Co. Method of manufacturing multilayer labels and apparatus therefor. 4,690,720, 9-1-87, Cl. 156-248.000.

Mack, Leegett. Apparatus for molding and cooking multiple egg products. 4,656,928, 4-14-87, Cl. 99-419.000.

Mack, Lois: *See*—
Schultz, Thomas G.; Gross, Andrew; Pappas, Barbara; Shifrin, George D.; and Mack, Lois, 4,713,780, Cl. 364-514.000.

Mack, Michael E.: *See*—
Plourde, Bertrand E.; and Mack, Michael E., 4,669,085, Cl. 372-12.000.

Mack, Raymond: *See*—
Ulveing, Leon; Linden, Joseph; Bohnet, Matthias; Wies, Georges; and Mack, Raymond, 4,702,182, Cl. 110-347.000.

Mack, Raymond E.: *See*—
Sittabkhan, Mansur N.; and Mack, Raymond E., 4,638,894, Cl. 188-170.000.

Mack, Theo; and Edlund, Roy, to Busak + Luyken GmbH & Co. Sealing ring structure with stressing ring. 4,714,259, 12-22-87, Cl. 277-165.000.

Mack, Thomas E., to PDA Engineering. Radial flow rotor with inserts and turbine utilizing the same. 4,648,802, 3-10-87, Cl. 416-244.00A.

Mack Trucks, Inc.: *See*—
Yumlu, Salih V., 4,673,423, Cl. 55-319.000.

Mack, William, to Clairol Incorporated. Heating device for rapidly heating a single hair roller. 4,647,755, 3-3-87, Cl. 219-222.000.

MacKay, Donald H. C. Water supply systems. 4,671,317, 6-9-87, Cl. 137-411.000.

Mackay, Harold A.: *See*—
Ostenak, Carl A.; and Mackay, Harold A., 4,684,217, Cl. 350-319.000.

Mackay, John W.: *See*—
Kuo, Richard J.; Mackay, John W.; and Van Buren, Rick L., 4,693,930, Cl. 428-323.000.

MacKay, Joseph H., Jr. Disposable depressed center grinding wheel having an integral mounting hub. 4,694,615, 9-22-87, Cl. 51-168.000.

MacKay, Kenneth D.: *See*—
Tuominen, Francis W.; Swanson, Ronald R.; Mattison, Phillip L.; MacKay, Kenneth D.; and Glorvigen, Bradley W., 4,661,606, Cl. 548-497.000.
Virnig, Michael J.; Clark, James P.; and MacKay, Kenneth D., 4,647,688, Cl. 558-440.000.

MacKay, Kent W.: *See*—
Leslie, George F., Jr.; and MacKay, Kent W., 4,700,391, Cl. 381-35.000.

Macke, Wilfried: *See*—
Siegers, Hans-Peter; and Macke, Wilfried, 4,708,900, Cl. 428-74.000.

Mackenroth, Kerry. Digital pacing indicator for motorcycles. 4,695,958, 9-22-87, Cl. 364-424.000.

Mackenthun, Donald W.: *See*—
Scheuneman, James H.; Meyer, Joseph H.; and Mackenthun, Donald W., 4,697,233, Cl. 364-200.000.

Mackenthun, Holger: *See*—
Jenning, Michael; and Mackenthun, Holger, 4,697,183, Cl. 340-870.250.
Kreft, Hans-Diedrich; Jenning, Michael; Mackenthun, Holger; Baik, Thorten; and Niznik, Thomas, 4,698,996, Cl. 73-1.00J.

Mackenzie, Donald R., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Hermetic fiber seal. 4,699,456, 10-13-87, Cl. 350-96.200.

MacKenzie, Hugh R.: *See*—
Borror, Alan L.; Ellis, Ernest W.; Faramarzpour, Faramarz; MacKenzie, Hugh R.; and McGowan, Donald A., 4,663,518, Cl. 235-487.000.

Mackenzie, John D.; and Horiuchi, Tetsuro, to Ensci Incorporated. Alkaline-resistant glass bodies and fibers. 4,652,535, 3-24-87, Cl. 501-27.000.

MacKenzie, Morley S.: *See*—
Finn, Roger C.; and MacKenzie, Morley S., 4,678,272, Cl. 350-96.210.

Mackenzie, Raymond W., to Westinghouse Electric Corp. Electronic circuit for measuring electrical energy. 4,663,587, 5-5-87, Cl. 324-141.000.

Mackereth, Thomas C., to U.S. Philips Corporation. Fading circuit for video signals. 4,668,989, 5-26-87, Cl. 358-182.000.

Mackereth, Thomas C.: *See*—
Field, Anthony J.; Heerah, Atma; and Mackereth, Thomas C., 4,707,742, Cl. 358-183.000.

Mackey, Charles S.: *See*—
Cummings, Richard E.; Mackey, Charles S.; Dickinson, Robert W.; Dickinson, Ben W. O., III; and Larsen, Merle D., 4,715,128, Cl. 33-544.000.
Dickinson, Robert W.; Mackey, Charles S.; and Odgers, Irving L., 4,693,327, Cl. 175-61.000.

Mackey, Frederick A., Sr. Combination film and film supply and take-up system cover. 4,562,732, 5-5-87, Cl. 352-128.000.

Mackey, Harold M. Education device. 4,674,982, 6-23-87, Cl. 434-188.000.

Mackey, Joseph E.: *See*—
Wilson, George S.; Kline, Harvey E.; and Mackey, Joseph E., 4,702,956, Cl. 428-251.000.
Mackey, Larry N.: *See*—
Bush, Rodney D.; Connor, Daniel S.; Heinzman, Stephen W.; and Mackey, Larry N., 4,663,071, Cl. 252-174.190.
Collins, Jerome H.; Mackey, Larry N.; and Spadini, Gianfranco L., 4,687,592, Cl. 252-99.000.
Collins, Jerome H.; Mackey, Larry N.; and Spadini, Gianfranco L., 4,689,167, Cl. 252-95.000.
Mackey, Lawrence A.: *See*—
Wham, John L.; Mackey, Lawrence A.; and Haselton, Frederick R., 4,648,345, Cl. 114-338.000.
Mackey, Peter J., Hakoopian, Hakoop; and Ramputi, Michael A., to Harris Corporation. Arbitrary waveform generator system 4,667,302, 5-19-87, Cl. 364-718.000.
Mackie, David R.: *See*—
Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,639,864, Cl. 364-200.000.
Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,535, Cl. 361-200.000.
Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,537, Cl. 364-200.000.
Mackie, Donald E. Target for use in a ball game. 4,676,511, 6-30-87, Cl. 273-376.000.
Mackie, Gregory C.; Satra, Stephen E.; and Chen, Chih-Ming, to Electronic Engineering and Manufacturing, Inc. Audio processing system for restoring bass frequencies. 4,698,842, 10-6-87, Cl. 381-1.000.
Mackiewicz, Ralph E.; and Kuhn, Michael A., to Westinghouse Electric Corp. Non-volatile memory device for a programmable controller. 4,713,756, 12-15-87, Cl. 364-200.000.
Mackin, William M.: *See*—
Boswell, George A.; Mackin, William M.; and Thoolen, Martin J., 4,668,676, Cl. 514-243.000.
MacKinnon, Barry A.; and Sutphin, Howard D., to Resonex, Inc. Magnet assembly for magnetic resonance imaging and method of manufacture. 4,667,174, 5-19-87, Cl. 335-299.000.
Mackinnon, John W. M.: *See*—
Clitherow, John W.; Bradshaw, John; Mackinnon, John W. M.; Judd, Duncan B.; Bays, David E.; Hayes, Roger; and Pearce, Andrew, 4,670,448, Cl. 514-334.000.
Mackintosh, Charles. System for rolling and unrolling a ground cover. 4,640,469, 2-3-87, Cl. 242-55.000.
MacKirdy, William T., to Casket Shells Inc. Hinge having alternate mounting capacity. 4,688,305, 8-25-87, Cl. 27-15.000.
Mackiw, Vladimir N.; Nadezhdin, Alexander; and West, Donald R., to Sherritt Gordon Mines Limited. Production of fine spherical copper powder. 4,645,532, 2-24-87, Cl. 75-0.50A.
Macklanburg-Duncan Company: *See*—
Haefner, LeRoy H.; and Rhodes, Stephen M., 4,685,219, Cl. 33-379.000.
Macklen, Eric D.: *See*—
Camp, Philip G.; Macklen, Eric D.; Hole, Victor H. R.; and Hutcherson, David R., 4,702,619, Cl. 374-144.000.
Mackles, Leonard, to Product Resources International, Inc. Aerosol foam. 4,639,367, 1-27-87, Cl. 424-45.000.
Mackley, James S.: *See*—
Cooper-Hart, Michael A.; Emmons, Lawrence D.; Mackley, James S.; and Stokes, David H., 4,715,059, Cl. 379-53.000.
Macko, William J.: *See*—
Bass, Robert H.; Macko, William J.; and Lockhart, Robert K., Jr., 4,641,364, Cl. 455-12.000.
Mackool, Richard J. Multipartite intraocular lens. 4,693,716, 9-15-87, Cl. 623-6.000.
Mackrle, Svatopluk: *See*—
Mackrle, Vladimir; and Mackrle, Svatopluk, 4,664,794, Cl. 210-188.000.
Mackrle, Vladimir; and Mackrle, Svatopluk, to Slovenska vysoka skola technicka. Apparatus for biological activating cleaning of waste waters containing nitrogenous materials. 4,664,794, 5-12-87, Cl. 210-188.000.
Macku, Ales: *See*—
Neufuss, Karel; Macku, Ales; Forejt, Antonin; and Kasik, Pavel, 4,707,379, Cl. 427-34.000.
MacLachlan, Stuart; and O'Neill Bell, Christopher, to Chloride Silent Power Ltd. Sodium sulphur cells and their manufacture. 4,638,555, 1-27-87, Cl. 29-623.100.
MacLaughlin, Don N., to Cosden Technology, Inc. Process for manufacturing thermoplastic containers. 4,636,349, 1-13-87, Cl. 264-549.000.
MacLaurin, Blair K.: *See*—
Este, Grantley O.; Suthers, Mark S.; Streater, Richard W.; and MacLaurin, Blair K., 4,684,841, Cl. 310-313.00B.
Suthers, Mark S.; Este, Grantley O.; Streater, Richard W.; and MacLaurin, Blair K., 4,642,507, Cl. 310-313.00B.
Maclay, William R.: *See*—
Lamb, Owen L.; and Maclay, William R., 4,693,373, Cl. 209-3.300.
Maclean, Donald L.; Krishnamurthy, Ramachandran; and Lerner, Steven L., to BOC Group, inc., The. Argon recovery from hydrogen depleted ammonia plant purge gas utilizing a combination of cryogenic and non-cryogenic separating means. 4,687,498, 8-18-87, Cl. 62-17.000.
MacLean, Donald L., Krishnamurthy, Ramachandran; and Lerner, Steven L., to BOC Group, Inc., The. Argon recovery from ammonia plant purge gas utilizing a combination of cryogenic and non-cryogenic separating means. 4,659,762, 8-25-87, Cl. 62-18.000.
MacLean-Fogg Company: *See*—
Grube, William L., 4,654,913, Cl. 10-86.00R.
Maclean, George: *See*—
Shores, Rex W.; Martin, Robert H.; and Maclean, George, 4,662,626, Cl. 271-305.000.
MacLean, Mary. Natural coffee substitute. 4,699,795, 10-13-87, Cl. 426-596.000.
MacLellan, Bruce D., to Eastman Kodak Company. Development station having apertured thin film for controlling the flow of developer material. 4,716,437, 12-29-87, Cl. 355-3.0DD.
MacLennan, Diane. Food catcher for attaching to table. 4,659,143, 4-21-87, Cl. 297-182.000.
Macleod, Donald J., to Applied Motion Products, Inc. Single excitation pulse brushless DC motor. 4,667,137, 5-19-87, Cl. 318-254.000.
Macleod, Iain D.: *See*—
McKnight, James A.; Macleod, Iain D.; and Burton, Eric J., 4,655,992, Cl. 376-247.000.
MacLeod, Kenneth H., to Hanna-Beric Systems, Inc. Rotatable fill pipe with collapsible backfill elbow and method of employing same to blind-fill underground voids. 4,666,346, 5-19-87, Cl. 405-269.000.
Macleod, Robert B., Jr., to Shape Inc. Tape cassette assembly tray. 4,694,950, 9-22-87, Cl. 198-465.300.
MacLeod, Robert E., Jr., to Shape Inc. Method for manufacturing tape cassettes using an open-bottom assembly tray. 4,656,717, 4-14-87, Cl. 29-430.000.
Maclin, Harvey M.: *See*—
Kelm, James S.; Maclin, Harvey M.; Vickers, Edward C.; and Wakeman, Thomas G., 4,679,400, Cl. 60-722.000.
Kelm, James S.; Ludwig, Arthur L.; Maclin, Harvey M.; Roggenkamp, Steven K.; and Wakeman, Thomas G., 4,688,310, Cl. 29-156.80R.
MacMaster, George H.; and Nichols, Lawrence J., to Raytheon Company. Semiconductor secondary emission cathode and tube. 4,677,342, 6-30-87, Cl. 315-39.300.
MacMillan Bloedel Limited: *See*—
Churchland, Mark T.; and Schilling, Walter W., 4,706,799, Cl. 198-457.000.
Knudson, Robert M.; and Ehrenfellner, Hubert, 4,643,860, Cl. 264-109.000.
Lau, Kenneth K.; and Yelf, Jack T., 4,708,020, Cl. 73-852.000.
MacMinn, Stephen R., to General Electric Company. Starting sequence for reluctance motor drives operating without a shaft position sensor. 4,642,543, 2-10-87, Cl. 318-696.000.
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Dehne, Clarence A.; and MacMunn, George D., 4,669,388, Cl. 104-162.000.
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MacNeil, Tanya; and Gibbons, Patrice H., to Merck & Co., Inc. RDNA cloning vector pVE1, deletion and hybrid mutants and recombinant derivatives thereof products and processes. 4,703,009, 10-27-87, Cl. 435-172.300.
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Mills, Jeffrey P.; and Macrander, Max S., 4,698,771, Cl. 364-768.000.
Mills, Jeffrey P.; and Macrander, Max S., 4,716,538, Cl. 364-754.000.
Mills, Jeffrey P.; and Macrander, Max S., 4,716,539, Cl. 364-754.000.

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Barlow, J. Bruce, 4,669,131, Cl. 4-198.000.

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Przybyla, Janusz; Gozdziewicz, Zygmunt; Szal, Andrzej; Zub, Ryszard; and Maczynski, Andrzej, 4,656,719, Cl. 29-516.000.

Mada, Yoshikazu: *See—*
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Brown, Wallace L.; and Madamba, O. Mark, 4,708,048, Cl. 89-1.805.

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Ovshinsky, Stanford R.; and Madan, Arun, 4,703,336, Cl. 357-30.000.
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Madar, Roland: *See—*
Fruchart, Robert; Madar, Roland; Rouault, Alain; L'Heritier, Philippe; Taunier, Pierre; Boursier, Daniel; Fruchart, Daniel; and Chaudouet, Patrick, 4,663,066, Cl. 252-62.510.

Madate, Haruhisa: *See—*
Kobayashi, Kazunobu; Sekiguchi, Kyoji; Matsumura, Isao; and Madate, Haruhisa, 4,690,525, Cl. 351-206.000.

Madaus & Co.: *See—*
Brusewitz, Gerhard, 4,675,298, Cl. 435-298.000.
Brusewitz, Gerhard; and Sieck, Reinhard, 4,690,896, Cl. 435-296.000.
Palm, Hans-Gunther, 4,655,603, Cl. 366-107.000.

Maddak, Inc.: *See—*
Landsberger, David; and Broeils, John, 4,641,384, Cl. 4-620.000.

Madden, James D.: *See—*
Hargrove, Barry C.; and Madden, James D., 4,699,356, Cl. 251-149.600.

Madden, Paul R.; Kostanecki, Andrew T.; Mileos, George; and Michno, Michael J., Jr., to Union Carbide Corporation. Valve cover for gas storage cylinder. 4,645,091, 2-24-87, Cl. 220-85.00P.

Madden, William M., to United Technologies Corporation. Exhaust nozzle coupled with reverser exhaust door. 4,690,329, 9-1-87, Cl. 239-265.190.

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Maddever, Wayne J.; Riley, Michael F.; and Selmes, Ronald J., to Union Carbide Corporation. Melting furnace and method for melting metal. 4,699,654, 10-13-87, Cl. 75-10.450.

Maddi, Frank J., to Joule' Inc. Pipe hanger extension clip. 4,641,989, 2-10-87, Cl. 403-302.000.

Madding, Gary D.: *See—*
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Maddock, Mitchell E. Flow regulated mixer-injection system. 4,664,147, 5-12-87, Cl. 137-599.100.

Maddock, Mitchell E. Underground irrigation apparatus and method for using same. 4,697,952, 10-6-87, Cl. 405.43.000.

Maddock, William H., to Noma Inc. Cord reel. 4,656,320, 4-7-87, Cl. 191-12.400.

Maddock, William H.; and Bobrovniczky, Bert, to Noma Inc. Trouble lamp and retainer. 4,678,153, 7-7-87, Cl. 248-229.000.

Maddocks, John W. Instructional printing equipment. 4,685,885, 8-11-87, Cl. 434-164.000.

Maddocks, Thomas C.: *See—*
Andis, Matthew L.; Urbush, Richard L.; and Maddocks, Thomas C., 4,659,907, Cl. 219-370.000.

Maddox, Edward L.; and Pitts, Thomas E., to SW Industries, Inc. Optical sensing system for determining the orientation of weft threads in a wide variety of fabrics. 4,656,360, 4-7-87, Cl. 250-571.000.

Maddox, Edward L.: *See—*
Baker, Richard H.; and Maddox, Edward L., 4,680,490, Cl. 307-575.000.

Maddox, James F.; Kadonoff, Mark B.; Berger, Alan D.; Taivalkoski, Amy L.; George, Robert W., II; and Benayad-Cherif, Faycal E., to Denning Mobil Robotics, Inc. Beacon proximity detection system for a vehicle. 4,710,020, 12-1-87, Cl. 356-1.000.

Maddox, James P., to Imo Delaval Inc. Flow control system for erosive fluids. 4,687,495, 8-18-87, Cl. 55-46.000.

Maddox, Jim, Jr., to Texaco, Inc. Surfactant flooding system. 4,667,740, 5-26-87, Cl. 166-274.000.

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Maddux, Gordon T.: *See—*
Maddux, Irene H.; and Maddux, Gordon T., 4,697,592, Cl. 450-155.000.

Maddux, Irene H.; and Maddux, Gordon T. Support system. 4,697,592, 10-6-87, Cl. 450-155.000.

Madec, Pierre J.: *See—*
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Madeley, John N., to TRW Inc. Electrical connector component. 4,701,136, 10-20-87, Cl. 439-76.000.

Mader, Gerald E., to Household Manufacturing, Inc. Fluid shear coupling apparatus having fluid modulating valve. 4,653,624, 3-31-87, Cl. 192-58.00B.

Mader, Gottfried: *See—*
Limbacher, Bernhard; Muller, Karl; and Mader, Gottfried, 4,633,993, Cl. 192-98.000.

Mader, James M., to Harris Corporation. Integrated circuit architecture formed of parametric macro-cells. 4,701,860, 10-20-87, Cl. 364-490.000.

Mader, Karl; Schonenberger, Guido; and Buzzi, Carlo A., to IDC-Chemie AG. Device for treating burn and scald wounds. 4,711,375, 12-8-87, Cl. 222-135.000.

Mader, Leopold: *See—*
Vollmann, Norbert; and Mader, Leopold, 4,642,706, Cl. 360-74.300.

Madey, John M. J.; and Westenskow, Glen A., to Madey, John M. J. Microwave electron gun. 4,641,103, 2-3-87, Cl. 328-228.000.

Madgavkar, Ajay M.; and Washecheck, Donald M., to Shell Oil Company. Two step heterocyclic nitrogen extraction from petroleum oils. 4,671,865, 6-9-87, Cl. 208-96.000.

Madge, Werner: *See—*
Hauger, Josef; Madge, Werner; and Gille, Paul, 4,650,177, Cl. 271-305.000.

Madhavan, G. V. Bindu: *See—*
Verheyden, Julien P. H.; Martin, John C.; Madhavan, G. V. Bindu; McGee, Daniel P. C.; and Prisbe, Ernest J., 4,704,392, Cl. 514-267.000.

Madi-Szabo, Laszlo; Morvai, Margit; Horvath nee Feher, Eva; Jansco, Sandor; Tamasi, Piroska; Kovacs, Istvan; Kiss nee Loss, Ilona Maria; Bacsa, Gyorgy; Kubala nee Papp, Maria; and Bene nee Horvath, Magdolna, to Biogal Gyogyszergyar, and Alkaloida Vegyeszeti Gyar. Pharmaceutical compositions of anti-pancreatic inflammatory effect. 4,705,779, 11-10-87, Cl. 514-27.000.

Madic, Charles: *See—*
Koehly, Gerard; and Madic, Charles, 4,701,308, Cl. 423-2.000.

Madion, Herbert E. Emergency v-belt. 4,705,495, 11-10-87, Cl. 474-255.000.

Madiot, Andre ; and Kerjean, Joel, to Etablissements Lemer & Cie. Method of manufacturing a double-wall container including a neutron-absorbing screen for transporting and storing radio-active material. 4,706,366, 11-17-87, Cl. 29-523.000.

Madison, George B., to Coleman Company, Inc., The. Method of reinforcing flexible plastic. 4,660,495, 4-28-87, Cl. 114-347.000.

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Dombroski, Robert M.; and Kayser, John P., 4,711,320, Cl. 184-3.200.
Kayser, John P.; and Kast, Philip J., 4,648,486, Cl. 184-15.100.

Madison, Theodore N.: *See*—
Murtha, Eugene A.; Johnson-Williams, Mark B.; Madison, Theodore N.; and Cartabiano, Michael C., 4,642,710, Cl. 360-79.000.

Madni, Asad M.; and Wan, Lawrence. Microwave digital phase-shifter apparatus and method for construction. 4,649,553, 3-10-87, Cl. 377-43.000.

Madock, Michael: *See*—
Huetsch, Larry, 4,685,861, Cl. 414-729.000.

Madokoro, Shinichi: *See*—
Sakamoto, Yukio; and Madokoro, Shinichi, 4,675,629, Cl. 333-182.000.
Sakamoto, Yukio; Madokoro, Shinichi; and Okuyama, Shingo, 4,700,440, Cl. 29-25.420.

Madonna, Peter L.: *See*—
Wallace, Gerald F.; and Madonna, Peter L., 4,665,944, Cl. 137-580.000.

Madrange, Annie; and Canivet, Patrick, to L'Oreal. Detergent cosmetic composition containing a soap and cationic compound. 4,710,314, 12-1-87, Cl. 252-117.000.

Madray, Herbert R. Construction system. 4,688,358, 8-25-87, Cl. 52-90.000.

Madray, Herbert R. Metal building construction. 4,697,393, 10-6-87, Cl. 52-93.000.

Madrigal, Anthony: *See*—
Galloway, James J.; and Madrigal, Anthony, 4,679,645, Cl. 180-65.800.

Madsac, Michel; and Mauvoisin, Rene , to L'Air Liquide, Societe Anonyme pour l'Etude et l'Explotation des Procedes Georges Claude. Heat process for producing corrosion resistant steel articles. 4,702,779, 10-27-87, Cl. 148-16.600.

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Madsen, Bruce K.: *See*—
Hayes, Alan B.; Brown, Russell A.; Jensen, Thomas W.; and Madsen, Bruce K., 4,646,251, Cl. 364-518.000.

Madsen, Elmer W.; and Wang, Ping-Shih, to North American Philips Corporation. Synchronous or stepping motor with equal-torque stepping. 4,672,247, 6-9-87, Cl. 310-49.00R.

Madsen, Elmer W., to North American Philips Corporation. Shock protective circuit with mechanical latch for small appliances. 4,712,154, 12-8-87, Cl. 361-178.000.

Madsen, Henning S.; Sergero, Tommy S.; and Johansson, Karl A., to Telefonaktiebolaget LM Ericsson. Method of producing electroacoustic converters, preferably microphones, and converters produced according to the method. 4,697,334, 10-6-87, Cl. 29-594.000.

Madsen, Jens; and Kaae, Svend S., to Clean-Tex A/S. Method of dispensing vapor to the air in a room and an apparatus for carrying out the method. 4,658,985, 4-21-87, Cl. 222-1.000.

Madsen, Karen C.: *See*—
Suttles, Cameron; and Madsen, Karen C., 4,662,093, Cl. 40-158.00R.

Madsen, Rud F.; Nielsen, Werner K.; and Johnsen, Aksel F., to Aktieselskabet de Danske Sukkerfabrikker. Semi-permeable membrane liquid filtration apparatus including elliptical blocking means. 4,666,603, 5-19-87, Cl. 210-321.100.

Madsen, Rud F.: *See*—
Buchbjerg, Ernst; and Madsen, Rud F., 4,677,065, Cl. 435-68.000.

Madsen, Scott T.: *See*—
Allen, Charles B.; Madsen, Scott T.; and Paradice, William L., Jr., 4,652,287, Cl. 62-35.000.

Madsen, Willy B.; Jensen, Finn H.; Rasmussen, Ole B.; Goldstein, Guy; and Roussin-Moynier, Yves R., to Beghin-Say International, Inc. Net and method of producing same. 4,636,419, 1-13-87, Cl. 428-131.000.

Madwed, Albert. Gripper assembly. 4,645,411, 2-24-87, Cl. 414-753.000.

Madzgalj, Hans-Georg, to Feldmuehle Aktiengesellschaft. Hand-operated grinding or polishing tool. 4,688,356, 8-25-87, Cl. 51-391.000.

Mae, Masataka: *See*—
Saito, Shigeki; Hosokawa, Takao; and Mae, Masataka, 4,708,885, Cl. 427-58.000.

Mae, Yoshiharu; and Oka, Tsutomu, to Mitsubishi Kinzoku Kabushiki Kaisha. Process for preparing an ingot from metal scrap. 4,681,627, 7-21-87, Cl. 75-10.190.

Mae, Yoshiharu, to Mitsubishi Kinzoku Kabushiki Kaisha. Method of vertical continuous casting. 4,688,625, 8-25-87, Cl. 164-471.000.

Maebayashi, Jiro; and Hamamoto, Masaya, to Mazda Motor Corporation. Open top type automobile body structure. 4,708,389, 11-24-87, Cl. 296-107.000.

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Maeda, Akinori: *See*—
Wakasugi, Tomio; and Maeda, Akinori, 4,661,791, Cl. 335-151.000.

Maeda, Akio; Chida, Takeshi; and Seya, Hirokatsu, to Nippon Zeon Co., Ltd. Rubber composition for dust cover boots. 4,694,067, 9-15-87, Cl. 528-393.000.

Maeda, Akio: *See*—
Aonuma, Mitsuyoshi; Maeda, Akio; and Seya, Hirokatsu, 4,689,377, Cl. 525-523.000.

Maeda, Akira, to Yazaki Corporation. Electrical connector housing. 4,705,337, 11-10-87, Cl. 439-595.000.

Maeda, Akiya, Sakai, Mituya; Masaka, Yukinobu; Nomura, Masahiro; Yamada, Yasuo; and Tatsuhama, Tetsuro, to Okumura Machinery Corporation; and Seibu Polymer Kasei Kabushiki Kaisha. Rock crushing device. 4,711,501, 12-8-87, Cl. 299-21.000.

Maeda, Atsushi, to Mitsubishi Yuka Badische Co., Ltd. Process for producing cushioning laminate. 4,681,648, 7-21-87, Cl. 156-210.000.

Maeda, Chiaki: *See*—
Hisamoto, Iwao; Maeda, Chiaki; and Nishiwaki, Mitsuhiro, 4,638,089, Cl. 564-292.000.

Maeda, Eiji: *See*—
Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.00R.

Maeda, Fujio, to Kabushiki Kaisha Komatsu Seisakusho. Control system for hydraulic fluid pressure. 4,658,705, 4-21-87, Cl. 91-518.000.

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Maeda, Hajime: *See*—
Ikoma, Toshiaki; Maeda, Hajime; Yanai, Hisayoshi; Dang, Ryo; and Shigyo, Naoyuki, 4,636,824, Cl. 357-23.140.

Maeda, Haruo: *See*—
Tsukiji, Yoshihiro; and Maeda, Haruo, 4,664,570, Cl. 409-84.000.

Maeda, Hideo; Hori, Tadashi; and Tani, Tatsuya, to Sanyo Electric Co., Ltd. Air conditioner. 4,669,534, 6-2-87, Cl. 165-59.000.

Maeda, Hideo: *See*—
Ishiguro, Fujio; and Maeda, Hideo, 4,697,165, Cl. 338-34.000.

Maeda, Hiroaki: *See*—
Inagaki, Toshiyuki; and Maeda, Hiroaki, 4,706,549, Cl. 91-448.000.

Maeda, Hirofumi; and Akamatsu, Naruhiko, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Method of recovering volatile foaming agent from prefoamed beads of polyolefin resins. 4,682,989, 7-28-87, Cl. 55-23.000.

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Maeda, Hironari: *See*—
Honda, Masahiro; and Maeda, Hironari, 4,712,961, Cl. 414-42.000.

Maeda, Hironobu; Kitahara, Seizaburo; Yosimura, Haruo; Torawaki, Takao; Yaegasi, Takasi; and Yamaoka, Isao, to Sapporo Breweries, Ltd. Coating device for cold bottles or like containers. 4,677,934, 7-7-87, Cl. 118-58.000.

Maeda, Hiroshi: *See*—
Celmer, Walter D.; Cullen, Walter P.; Maeda, Hiroshi; and Tone, Junsuke, 4,652,523, Cl. 435-119.000.
Celmer, Walter D.; Cullen, Walter P.; Maeda, Hiroshi; Ruddock, John C.; and Tone, Junsuke, 4,707,493, Cl. 514-460.000.

Maeda, Hiroyuki: *See*—
Tanigawa, Naoya; Inagaki, Toshiyuki; and Maeda, Hiroyuki, 4,653,533, Cl. 137-565.000.

Maeda Industries, Ltd.: *See*—
Iwasaki, Yoshihisa, 4,674,995, Cl. 474-80.000.
Ozaki, Nobuo, 4,667,778, Cl. 188-24.120.
Tagawa, Koichi, 4,699,018, Cl. 74-475.000.

Maeda, Isamu, to Kankyo Souken Consultant, Co., Ltd. Metal melting furnace. 4,691,900, 9-8-87, Cl. 266-156.000.

Maeda, Katsuji: *See*—
Ando, Takehiro; Kimura, Hideo; Oda, Noriyuki; Asai, Takeji; Mochizuki, Ken; Fujihara, Toshihisa; and Maeda, Katsuji, 4,642,127, Cl. 55-20.000.

Maeda, Kazuhiko: *See*—
Koga, Yasufumi; Ogasawara, Shinji; and Maeda, Kazuhiko, 4,655,963, Cl. 252-511.000.

Maeda, Kazuo; Tokumasu, Noboru; and Fukuyama, Toshihiko, to Applied Materials Japan, Inc. Gas-phase growth process. 4,702,936, 10-27-87, Cl. 427-54.100.

Maeda, Kazuya; and Ishihara, Yasusuke, to Matsushita Electric Industrial Co., Ltd.; and Sano Sharyo Seisakusho Co., Ltd. Hand cart with fulcrum lever and vertically adjustable auxiliary wheels. 4,639,004, 1-27-87, Cl. 280-5.320.

Maeda, Keini: *See*—
Sadamori, Yuuichi; and Maeda, Keini, 4,679,045, Cl. 340-825.070.

Maeda, Kenichi; and Nitta, Tsuneo, to Tokyo Shibaura Denki Kabushiki Kaisha. Pattern recognition apparatus and method for making same. 4,651,289, 3-17-87, Cl. 364-513.500.

Maeda, Kenichi: *See*—
Kawada, Tadaki; and Maeda, Kenichi, 4,665,578, Cl. 14-17.000.

Maeda, Kensaku; Fujiwara, Satoru; Mochizuki, Tenchi; and Nagashima, Yutaka, to Ebara Corporation. Motor cooling apparatus for refrigerator. 4,669,279, 6-2-87, Cl. 62-505.000.

Maeda, Kensaku; Fujiwara, Satoru; and Mochizuki, Tenchi, to Ebara Corporation. Evaporator for refrigerator. 4,671,082, 6-9-87, Cl. 62-515.000.

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Maeda, Kensaku: *See*—
Fujiwara, Satoru; Mochizuki, Tenchi; Maeda, Kensaku; and Nagashima, Yutaka, 4,671,081, Cl. 62-469.000.

Maeda, Kiyoshi; and Ueyama, Tsutomu, to Dainippon Screen Mfg. Co., Ltd. Device of switching a scanning beam diameter. 4,642,701, 2-10-87, Cl. 358-296.000.

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Maeda, Kiyoshi: *See*—
Tomohisa, Kunio; Maeda, Kiyoshi; and Yao, Koji, 4,636,869, Cl. 358-287.000.
Tomohisa, Kunio; Maeda, Kiyoshi; and Cho, Masamichi, 4,691,241, Cl. 358-293.000.

Maeda, Koichi, to Toyota Jidosha Kabushiki Kaisha. Lifting apparatus. 4,699,412, 10-13-87, Cl. 294-64.100.

Maeda, Koji: *See*—
Tsukamoto, Kazumasa; Hayabuchi, Masahiro; Maeda, Koji; Watanabe, Kazuaki; and Taga, Yutaka, 4,693,348, Cl. 192-3.290.

Maeda, Kouichi: *See*—
Tsubaki, Kazumi; Koto, Noriaki; and Maeda, Kouichi, 4,666,637, Cl. 260-543.00R.

Maeda, Kozo: *See*—
Kuze, Katsuaki; Nishino, Yasuhiro; Matsuyama, Yujiro; Maeda, Kozo; Kobayashi, Masahiro; Okudaira, Tadashi; Hongo, Tsuyoshi; and Makimura, Osamu, 4,693,932, Cl. 428-323.000.

Maeda, Kumiko: *See*—
Ueno, Hideo; Hattori, Hiroshi; Maeda, Kumiko; and Yamada, Keiko, 4,695,172, Cl. 400-83.000.

Maeda, Makoto: *See*—
Abe, Fumio; Hasegawa, Hiroshi; Fujita, Tadashi; and Maeda, Makoto, 4,673,349, Cl. 431-328.000.

Maeda, Masahiko; Nagata, Kazuya; Otani, Taketsugu; and Saito, Yasutoki, to Showa Denko Kabushiki Kaisha. Printed circuit boards. 4,671,984, 6-9-87, Cl. 428-209.000.

Maeda, Masahiko: *See*—
Fushida, Akira; Matsui, Toshikazu; Hasegawa, Yuuji; Maeda, Masahiko; Tsuji, Nobuyuki; Horiuchi, Akira; and Yukitake, Kazunori, 4,652,510, Cl. 430-122.000.
Suzuki, Masami; Hirota, Tatsuya; and Maeda, Masahiko, 4,640,022, Cl. 34-48.000.

Maeda, Masaya, to Canon Kabushiki Kaisha. Head moving device. 4,652,952, 3-24-87, Cl. 360-106.000.

Maeda, Masaya, to Canon Kabushiki Kaisha. Magnetic recording and reproducing apparatus. 4,706,139, 11-10-87, Cl. 360-71.000.

Maeda Metal Industries, Ltd.: *See*—
Fujita, Masahiro; and Uemura, Yukio, 4,650,007, Cl. 173-12.000.
Fujita, Masahiro; and Uemura, Yukio, 4,691,786, Cl. 173-12.000.

Maeda, Minoru: *See*—
Iwasaki, Masayuki; Maeda, Minoru; and Fujikura, Sadao, 4,657,942, Cl. 522-16.000.
Iwasaki, Masayuki; Maeda, Minoru; and Shinozaki, Fumiaki, 4,661,434, Cl. 430-281.000.
Maruyama, Toshiki; Nakagawa, Hiroshi; and Maeda, Minoru, 4,661,730, Cl. 310-12.000.

Maeda, Mitsutosho: *See*—
Hirano, Takahisa; Fukami, Shoji; and Maeda, Mitsutosho, 4,678,416, Cl. 418-55.000.

Maeda, Morio: *See*—
Saitoh, Hajime; and Maeda, Morio, 4,678,883, Cl. 219-10.61R.

Maeda, Namio: *See*—
Shimada, Satoshi; Kitamura, Nobuo; Shikakura, Kunio; and Maeda, Namio, 4,683,491, Cl. 358-56.000.

Maeda, Naoyuki, to Tokai TRW & Co., Ltd. Single phase to three phase signal converter. 4,644,241, 2-17-87, Cl. 318-768.000.

Maeda, Sadao, to Maeda Shell Service Co., Ltd. Integrally molded hammer with separated head and handle cores. 4,697,481, 10-6-87, Cl. 81-22.000.

Maeda, Sadayuki; Shinoo, Yasutaka; Takenaka, Shinji; Arashida, Susumu; and Shimizu, Iwao, to Hamari Chemicals, Ltd. Method for producing 2-(substituted aryl) propionaldehyde. 4,670,607, 6-2-87, Cl. 568-427.000.

Maeda, Satoru; and Noguchi, Yasushi, to Sony Corporation. Majority logic circuit for digital error correction system. 4,660,199, 4-21-87, Cl. 371-36.000.

Maeda, Satoru; and Motoki, Kazuo, to Sony Corporation. Display apparatus. 4,677,432, 6-30-87, Cl. 340-728.000.

Maeda, Satoru; and Tao, Akihiko, to Sony Corporation. Image information accessing user terminal. 4,691,340, 9-1-87, Cl. 379-96.000.

Maeda, Satoru, to Sony Corporation. Color-signal converting circuit. 4,712,099, 12-8-87, Cl. 340-703.000.

Maeda, Satoru: *See*—
Hayashi, Yasuhiro; Maeda, Satoru; and Kojima, Tadashi, 4,689,779, Cl. 369-44.000.
Shibui, Michiro; Hanamoto, Yoshihiro; Ishigaki, Yoshio; Sahara, Hiroshi; Maeda, Satoru; and Noguchi, Yasushi, 4,694,406, Cl. 364-518.000.

Maeda, Satoshi, to Kabushiki Kaisha Toshiba. Method of making MOS device by sequentially depositing an oxidizable layer and a masking second layer over gated device regions. 4,642,878, 2-17-87, Cl. 29-571.000.

Maeda Shell Service Co., Ltd.: *See*—
Maeda, Sadao, 4,697,481, Cl. 81-22.000.

Maeda, Shigeru: *See*—
Hagita, Hyoji; Fukuda, Takashi; Maeda, Shigeru; Imamura, Hideo; Ogata, Kazutosi; and Fukuoka, Masahiro, 4,688,411, Cl. 72-42.000.

Maeda, Shigeyoshi; Yamamoto, Masahiro; Omata, Hiroyasu; and Okada, Hideya, to Nippon Steel Corporation. Method of improving functions of surface of alloy steel by means of irradiation of laser beam, and alloy steel and structure made by the method. 4,692,191, 9-8-87, Cl. 148-6.14R.

Maeda, Shuichi, to DAC Engineering Co., Ltd. Positioning device. 4,668,095, 5-26-87, Cl. 356-400.000.

Maeda, Tadayuki: *See*—
Okamura, Kazuo; Koyama, Satoshi; Maeda, Tadayuki; and Kamihigoshi, Tutomu, 4,684,591, Cl. 429-218.000.

Maeda, Takanori; and Hamanaka, Kenjiro, to Pioneer Electronic Corporation. Tracking signal error generator for optical information devices. 4,660,191, 4-21-87, Cl. 369-46.000.

Maeda, Takanori, to Pioneer Electronic Corporation. Focus control device. 4,691,098, 9-1-87, Cl. 250-201.000.

Maeda, Takanori: *See*—
Kotaka, Fumitaka; and Maeda, Takanori, 4,695,158, Cl. 356-123.000.

Maeda, Takashi: *See*—
Yamada, Takashi; Arimune, Hisao; and Maeda, Takashi, 4,680,742, Cl. 369-13.000.

Maeda, Takayuki: *See*—
Kawasaki, Tamotsu; Iwasaki, Tadayoshi; Maeda, Takayuki; and Morita, Minoru, 4,668,551, Cl. 428-69.000.

Maeda, Takeo, to Kabushiki Kaisha Toshiba. Method of manufacturing a semiconductor device comprising resistors of high and low resistances. 4,643,777, 2-17-87, Cl. 148-1.500.

Maeda, Takeo, to Kabushiki Kaisha Toshiba. Method of manufacturing semiconductor device. 4,663,825, 5-12-87, Cl. 29-571.000.

Maeda, Takeshi: *See*—
Kaku, Toshimitsu; Tsunoda, Yoshito; Maeda, Takeshi; and Nakamura, Shigeru, 4,663,751, Cl. 369-46.000.
Muraoka, Koji; Maeda, Takeshi; Takasago, Masahiro; and Kaneda, Tokuya, 4,650,332, Cl. 356-374.000.
Saito, Atsushi; Ojima, Masahiro; Maeda, Takeshi; and Kato, Tsuyoshi, 4,712,203, Cl. 369-13.000.
Sugiyama, Hisataka; Shigematsu, Kazuo; Maeda, Takeshi; Saitoh, Atsushi; and Takasugi, Wasao, 4,646,103, Cl. 346-1.100.

Maeda, Tatsumi: *See*—
Ito, Takeo; Takeuchi, Hajime; Hashimoto, Minoru; and Maeda, Tatsumi, 4,714,654, Cl. 428-328.000.
Yokoyama, Hirotaka; Ido, Tadashi; Maeda, Tatsumi; and Kurisu, Shunji, 4,699,771, Cl. 423-138.000.

Maeda, Tatsuo; and Ohya, Takeji, to Mazda Motor Corporation. Vehicle door structure. 4,711,052, 12-8-87, Cl. 49-502.000.

Maeda, Tatsuo: *See*—
Morimoto, Teruyo; Sano, Yumiko; Nimura, Eiji; Tomii, Yuji; and Maeda, Tatsuo, 4,701,389, Cl. 430-110.000.

Maeda, Tomohisa: *See*—
Shimizu, Shigehisa; Suzuki, Chiaki; Harada, Kazumasa; and Maeda, Tomohisa, 4,656,737, Cl. 29-806.000.

Maeda, Toru: *See*—
Takahashi, Masatomo; and Maeda, Toru, 4,668,994, Cl. 358-256.000.

Maeda, Toyohiro: *See*—
Mori, Makihiko; Kibe, Satoshi; and Maeda, Toyohiro, 4,640,761, Cl. 208-44.000.

Maeda, Tsutomu: *See*—
Watabe, Seiji; Yokoyama, Isao; Sasaki, Masanori; Toyoshima, Yotaro; Takahashi, Sumio; and Maeda, Tsutomu, 4,714,968, Cl. 335-212.000.

Maeda, Umio: *See*—
Kawakatsu, Akira; Yuge, Yooji; Hayama, Noriyuki; Saito, Tokuyoshi; and Maeda, Umio, 4,701,663, Cl. 313-112.000.

Maeda, Yasuhiro: *See*—
Takahashi, Shigeru; and Maeda, Yasuhiro, 4,677,066, Cl. 435-172.200.

Maeda, Yoichiro: *See*—
Hagihara, Shiro; Tsutani, Sadahiro; and Maeda, Yoichiro, 4,702,331, Cl. 180-9.320.

Maeda, Yorishige, to Toyota Jidosha Kabushiki Kaisha. Three-piece oil-ring with an inward protrusion. 4,659,093, 4-21-87, Cl. 277-139.000.

Maeda, Yorishige: *See*—
Tanaka, Atsuo; Kajikawa, Yoshiaki; Maeda, Yorishige; Machida, Shiro; and Dohnomoto, Tadashi, 4,669,367, Cl. 92-227.000.

Maeda, Yoshihiko; Nogami, Toshiaki; Kashiwagi, Shigeru; Sakurai, Kenji; and Nishiyama, Kunio, to Toyota Shatai Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Detachable-type vehicle sun shade. 4,702,517, 10-27-87, Cl. 296-214.000.

Maeda, Yoshihito: *See*—
Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisashi; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kiyoshi; and Kaneko, Toshiki, 4,651,172, Cl. 346-135.100.

Maeda, Yoshiko: *See*—
Miyamoto, Takeshi; Ura, Mikio; Kazama, Shigenori; Kase, Takao; and Maeda, Yoshiko, 4,645,307, Cl. 350-357.000.

Maeda, Yoshinobu; Fujiwara, Kohji; and Naito, Takao, to Matsushita Electric Industrial Co., Ltd. Sheet holding apparatus. 4,638,985, 1-27-87, Cl. 269-244.000.

Maeda, Yoshinobu: *See*—
Misawa, Yoshihiko; Ishii, Taira; and Maeda, Yoshinobu, 4,696,424, Cl. 227-84.000.
Seno, Makito; Misawa, Yoshihiko; Maeda, Yoshinobu; and Fukumoto, Kengi, 4,706,379, Cl. 29-740.000.

Maeda, Yoshiyasu, to Murata Kikai Kabushiki Kaisha. Draw texturing and entanglement apparatus for yarn. 4,644,620, 2-24-87, Cl. 28-220.000.

Maeda, Yosinari: *See*—
Kurome, Shosaku; Maeda, Yosinari; and Emoto, Hiromi, 4,664,530, Cl. 366-205.000.

Maeda, Yuichiro: *See*—
Masuhara, Yasuhiro; Utamura, Motoaki; Kashiwai, Shinichi; Yokoyama, Iwao; Murata, Shigeto; Nakao, Toshitsugu; and Maeda, Yuichiro, 4,663,116, Cl. 376-377.000.

Maeda, Yukio; and Kudo, Shinichi, to Matsushita Electric Industrial Co., Ltd. Method of forming thick film circuits. 4,664,945, 5-12-87, Cl. 427-96.000.

Maeda, Yukio; Kitayama, Yoshifumi; and Murakami, Shuichi, to Matsushita Electric Industrial Co., Ltd. Bonding method of semiconductor device. 4,676,864, 6-30-87, Cl. 156-633.000.

Maeda, Yukio; Kudo, Shinichi; and Saeki, Keiji, to Matsushita Electric Industrial Co., Ltd. Method and apparatus for drawing a thick film circuit. 4,692,351, 9-8-87, Cl. 427-196.000.

Maeda, Yukio: *See*—
Katsube, Junki; Nakamura, Mitsutaka; and Maeda, Yukio, 4,647,587, Cl. 514-567.000.

Maeda, Yutaka: *See*—
Toriumi, Shiro; Yamagishi, Seiichi; Yamakoshi, Yukiyoshi; Ishii, Kenjiro; and Maeda, Yutaka, 4,665,408, Cl. 346-134.000.

Maeder, Heinz: *See*—
Ettel, Godwin; Maeder, Heinz; and Ramseyer, Robert, 4,677,376, Cl. 324-179.000.

Maeder, Rene; and Herzog, Albin, to Gamper & Co. AG. Method and apparatus for producing baling wire for tying together bundled items. 4,683,918, 8-4-87, Cl. 140-73.000.

Maedge, Werner: *See*—
Wysk, Hans-Joachim; Stellmach, Dieter; Nolte, Bernhard; Gronwald, Gerd; and Maedge, Werner, 4,701,063, Cl. 400-621.000.

Maedgen, Malcolm A., Jr., to Biofac, Inc. Method and apparatus for producing parasitic mites. 4,646,683, 3-3-87, Cl. 119-1.000.

Maegawa, Harumi; Takai, Sakan; Sukeda, Toshiaki; Irie, Shoji; and Kobata, Shoichi, to Fujitsu Limited. Magnetic bubble memory module with protected terminals. 4,710,895, 12-1-87, Cl. 365-2.000.

Maegawa, Toshiyuki; and Tominaga, Satoshi, to Sharp Kabushiki Kaisha. Calculator with definable keys. 4,647,911, 3-3-87, Cl. 340-365.00R.

Maegawa, Yuzo; Takahashi, Yukoh; Okino, Eizo; Kaneoya, Tatsuo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, to Sumitomo Chemical Co., Ltd. Piperidine derivatives, their production and use as stabilizers. 4,670,488, 6-2-87, Cl. 524-103.000.

Maegawa, Yuzo: *See*—
Kotera, Norio; Uegaki, Masatoshi; Yoshimura, Masakatsu; Masaki, Shinzaburo; Kaneoya, Tatsuo; Miyaoka, Takashi; Maegawa, Yuzo; and Fukasawa, Akira, 4,695,407, Cl. 760-378.000.
Takahashi, Yukoh; Kaneoya, Tatsuo; Okino, Eizo; Maegawa, Yuzo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, 4,670,489, Cl. 524-103.000.

Maehara, Akihiro: *See*—
Hashimoto, Takatsugu; Maehara, Akihiro; Tomita, Setsuke; Funahashi, Yuichi; Watanabe, Junichiro; Sugiura, Kazuo; and Matsumoto, Hironori, 4,714,734, Cl. 524-496.000.

Maehara, Atsushi: *See*—
Tanaka, Masanori; Maehara, Atsushi; and Kanai, Junichi, 4,679,996, Cl. 418-201.000.

Maehara, Fuyuky; and Kato, Hidetoshi, to Nippondenso Co., Ltd. Voltage regulator for alternator of vehicle. 4,670,704, 6-2-87, Cl. 322-8.000.

Maehara, Fuyuky: *See*—
Kato, Hidetoshi; Maehara, Fuyuky; and Mayumi, Nobuo, 4,641,079, Cl. 320-64.000.

Maehara, Hidejirou: *See*—
Kawakami, Masanori; Nishiwaki, Shoji; and Maehara, Hidejirou, 4,669,899, Cl. 400-240.300.
Suzaki, Masayuki; Nishiwaki, Shoji; Hayashima, Toshitaka; Uezu, Kazuo; Maehara, Hidejirou; and Momose, Masanori, 4,683,478, Cl. 346-76.0PH.

Maehara, Junichiro; Izumi, Kenzo; and Hirokawa, Ikuo, to Idemitsu Kosan Company Limited. Polyolefin-based resin composition. 4,703,078, 10-27-87, Cl. 524-476.000.

Maehara, Kazuo, to Sanden Corporation. Refrigerated display case. 4,633,677, 1-6-87, Cl. 62-256.000.

Maehara, Kazuo; and Fukuda, Toshiyuki, to Sanden Corporation. Refrigerated display cabinet. 4,644,758, 2-24-87, Cl. 62-234.000.

Maehara, Naoyoshi; Matsumoto, Takahiro; Kusunoki, Shigeru; Sakamoto, Kazuho; and Mihara, Makoto, to Matsushita Electric Industrial Co., Ltd. Power feed apparatus for load having reverse blocking characteristics. 4,704,674, 11-3-87, Cl. 363-131.000.

Maehara, Naoyoshi: *See*—
Kusunoki, Shigeru; and Maehara, Naoyoshi, 4,672,180, Cl. 219-494.000.

Maehara, Osamu; and Nakajima, Yoshitaka, to Kabushiki Kaisha Ono Sokki. Angle transducer employing polarized light. 4,650,996, 3-17-87, Cl. 250-231.05E.

Maehara, Sigeharu, to Sharp Kabushiki Kaisha. Copying apparatus. 4,690,545, 9-1-87, Cl. 355-51.000.

Maehara, Toshifumi; and Kurata, Masayuki, to Akebono Brake Industry Co., Ltd. Automatic stop valve device for vehicle brake systems. 4,640,391, 2-3-87, Cl. 188-353.000.

Maehara, Toshifumi, to Akebono Brake Industry Co., Ltd. Antiskid control system. 4,691,969, 9-8-87, Cl. 303-113.000.

Maehara, Toshifumi, to Akebono Brake Industry Co., Ltd. Anti-lock brake system for vehicle. 4,708,407, 11-24-87, Cl. 303-116.000.

Maehara, Yasuhiro, to Sumitomo Metal Industries, Ltd. Superplastic deformation of duplex stainless steel. 4,637,841, 1-20-87, Cl. 148-12.00E.

Maehara, Yasuhiro: *See*—
Yamada, Tsuneo; Sakashita, Tsutomu; Tomono, Hiroshi; Kimura, Takashi; Maehara, Yasuhiro; and Yasumoto, Kuno, 4,709,572, Cl. 72-366.000.

Maehara, Yasunori; Fujiwara, Sigemi; Koyama, Katsuhde; Tamura, Kaoru; Kawai, Yasuhiro; and Watanabe, Kazuya, to Kibushiki Kaisha Toshiba; and Fuji Photo Film Co., Ltd. Device for containing a radiation recording medium. 4,697,902, 10-6-87, Cl. 354-281.000.

Maehara, Yoshimi, to Hitachi Maxell, Ltd. Tape cartridge. 4,648,565, 3-10-87, Cl. 242-198.000.

Maehashi, Tatsuichi; Abe, Takao; Koshizuka, Kunihiro; and Inaba, Yoshihiro, to Konishiroku Photo Industry Co., Ltd. Thermal transfer recording medium. 4,681,796, 7-21-87, Cl. 428-212.000.

Maehashi, Tatsuichi: *See*—
Inaba, Yoshihiro; Koshizuka, Kunihiro; Maehashi, Tatsuichi; and Abe, Takao, 4,707,406, Cl. 428-336.000.

Maejima, Enjiro: *See*—
Sekiguchi, Yuzo; and Maejima, Enjiro, 4,635,774, Cl. 192-52.000.

Maejima, Hideo: *See*—
Katsura, Koyo; and Maejima, Hideo, 4,677,549, Cl. 364-200.000.

Maejima, Hisashi: *See*—
Komoriya, Susumu; Nishizuka, Hiroshi; Nakagawa, Shinya; and Maejima, Hisashi, 4,699,505, Cl. 355-30.000.

Maejima, Mokichi, to Jyohoku Seiko Co., Ltd. Deckle structure for a film extrusion die. 4,659,302, 4-21-87, Cl. 425-190.000.

Maejima, Takeshi; and Shiba, Kenji, to Minolta Camera Kabushiki Kaisha. Multiple projector planetarium drive system. 4,639,224, 1-27-87, Cl. 434-286.000.

Maejima, Tsugio; Kobayashi, Wataru; Ashibe, Kenji; Tagiya, Nobuaki; and Sakurada, Satoshi, to TOA Nenryo Kogyo Kabushiki Kaisha. Method for manufacturing low pour point petroleum product with zeolite TSZ. 4,664,775, 5-12-87, Cl. 208-89.000.

Maekawa, Hideo: *See*—
Moribe, Yoshihiro; Hayashi, Yukitaka; Maekawa, Hideo; and Tsukui, Kunitsugu, 4,639,804, Cl. 360-105.000.

Maekawa, Hirofumi: *See*—
Matsumoto, Takahiro; Nishio, Tetsuo; Maekawa, Hirofumi; and Oota, Hisashi, 4,655,045, Cl. 62-45.000.

Maekawa, Hiroshi, to Murata Kikai Kabushiki Kaisha. Transportable robot system. 4,664,590, 5-12-87, Cl. 414-744.00R.

Maekawa, Hitoshi: *See*—
Onozawa, Makoto; Osawa, Michitaka; Maekawa, Hitoshi; and Kito, Koji, 4,707,640, Cl. 315-408.000.

Maekawa, Junichi, to Ohi Seisakusho Co., Ltd. Window regulator. 4,691,475, 9-8-87, Cl. 49-352.000.

Maekawa, Junichi: *See*—
Moriya, Masaichi; Maekawa, Junichi; and Nakamura, Takeshi, 4,648,206, Cl. 49-352.000.

Maekawa, Kiyotsugu: *See*—
Ogasawara, Isamu; Maekawa, Kiyotsugu; Tomioka, Hiroyuki; and Furukawa, Shinji, 4,657,604, Cl. 148-304.000.
Ogasawara, Isamu; Maekawa, Kiyotsugu; Tomioka, Hiroyuki; and Furukawa, Shinji, 4,657,605, Cl. 148-304.000.

Maekawa, Kouji, to Mita Industrial Co., Ltd. Developing process for electrophotography using a two-component developer. 4,633,808, 1-6-87, Cl. 118-658.000.

Maekawa, Masanori: *See*—
Kikuchi, Hiroshi; Hayashi, Kuniharu; Isobe, Minoru; Tanuma, Jiro; and Maekawa, Masanori, 4,687,361, Cl. 400-322.000.

Maekawa, Motoi: *See*—
Matsushita, Tsuyoshi; Maekawa, Motoi; and Takahashi, Makoto, 4,684,275, Cl. 400-479.000.

Maekawa, Nobuaki; Shimizu, Shigeru; Dohi, Masaaki; and Kuriyama, Yoji, to Casio Computer Co., Ltd.; and Casio Electronics Manufacturing Co., Ltd. Cleaning device. 4,660,962, 4-28-87, Cl. 355-15.000.

Maekawa, Nobuteru: *See*—
Aoki, Kazuhisa; Tagishi, Hiroyuki; and Maekawa, Nobuteru, 4,668,908, Cl. 323-324.000.
Sainomoto, Yoshinori; and Maekawa, Nobuteru, 4,706,153, Cl. 361-42.000.

Maekawa, Sachio: *See*—
Takeda, Shigeki; and Maekawa, Sachio, 4,682,639, Cl. 144-2.00R.

Maekawa, Shigeto: *See*—
Hirao, Tadashi; and Maekawa, Shigeto, 4,665,422, Cl. 357-30.000.

Maekawa, Taijiro; and Fujino, Yukio, to Anmin Manufacturing Co., Ltd. Heat insulation material. 4,637,947, 1-20-87, Cl. 428-68.000.

Maekawa, Yoshikazu, to Konishiroku Photo Industry Co., Ltd. Copying method and apparatus for independently scanning two parts of an original document. 4,659,207, 4-21-87, Cl. 355-8.000.

Maekawa, Yoshikazu; and Okui, Susumu, to Konishiroku Photo Industry Co., Ltd. Method for both-side copying and apparatus therefore. 4,705,389, 11-10-87, Cl. 355-26.000.

Maekawa, Yukio: *See*—
Ishimura, Toshihiko; and Maekawa, Yukio, 4,637,704, Cl. 354-286.000.
Niwa, Masatake; and Maekawa, Yukio, 4,659,203, Cl. 354-286.000.
Tanii, Junichi; and Maekawa, Yukio, 4,712,871, Cl. 350-257.000.

Maekiaho, Leo B.: *See*—
van Dongen, Johannes C. M.; and Maekiaho, Leo B., 4,682,421, Cl. 33-302.000.

Maeland, Arnulf J.: *See*—
Fanelli, Anthony J.; Maeland, Arnulf J.; Armbrust, Robert W.; and Rak, George, 4,675,465, Cl. 585-654.000.
Levinson, Samuel; Libowitz, George G.; and Maeland, Arnulf J., 4,659,554, Cl. 423-249.000.

Maemine, Kenji, to Alps Electric Co., Ltd. Brushless motor with symmetrical leads for preventing signal distortion. 4,701,649, 10-20-87, Cl. 310-68.00R.

Maemine, Kenji, to Alps Electric Co., Ltd. Brushless motor with phase cancelling leads for rotational speed detector pattern. 4,701,650, 10-20-87, Cl. 310-68.00R.

Maenishi, Kozo; and Nakanishi, Youichi, to Omron Tateisi Electronics Co. Electromagnetic relay with double sheet spring armature support. 4,647,885, 3-3-87, Cl. 335-78.000.

Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; and Sato, Shigenobu, to Omron Tateisi Electronics Co. Method of manufacture of base assembly for an electromagnetic relay. 4,656,733, 4-14-87, Cl. 29-602.00R.

Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; and Sato, Shigenobu, to Omron Tateisi Electronics Co. Electromagnetic relay with linearly moving block assembly. 4,658,226, 4-14-87, Cl. 335-127.000.

Maenishi, Kozo; and Nakanishi, Youichi, to Omron Tateisi Electronics Co. Self-aligning spring mechanism for an electrical switch. 4,692,728, 9-8-87, Cl. 335-192.000.

Maeno, Hiroshi, to Canon Kabushiki Kaisha. Watertight camera. 4,653,883, 3-31-87, Cl. 354-64.000.

Maeno, Hiroshi; Yoshida, Michio; and Tamamura, Hideo, to Canon Kabushiki Kaisha. Waterproof camera. 4,666,274, 5-19-87, Cl. 354-64.000.

Maeno, Hiroshi: *See*—
Nagata, Toru; Aoshima, Chikara; Maeno, Hiroshi; and Tamamura, Hideo, 4,643,549, Cl. 354-54.000.
Tamamura, Hideo; and Maeno, Hiroshi, 4,668,061, Cl. 354-64.000.
Tamamura, Hideo; and Maeno, Hiroshi, 4,714,333, Cl. 354-64.000.

Maeno, Jun-ichi: *See*—
Makita, Muneharu; and Maeao, Jun-ichi, 4,647,636, Cl. 526-206.000.

Maeno, Kunio; and Kisanuki, Hisayuki, to Toyoda Gosei Co., Ltd. Weather strip. 4,678,696, 7-7-87, Cl. 428-122.000.

Maeno, Masaya: *See*—
Kitamori, Nobuyuki; Maeno, Masaya; and Izuhara, Seiji, 4,702,919, Cl. 424-480.000.

Maenosono, Tsukasa: *See*—
Ino, Toshio; Maenosono, Tsukasa; Yoshida, Kazuo; Terasaki, Masanori; Kuriwaki, Tetsusho; Koga, Tadao; and Hirado, Miharu, 4,694,131, Cl. 219-10.410.
Koga, Tadao; Sugimori, Mitsuru; Terasaki, Masanori; Maenosono, Tsukasa; Tsushima, Satoru; Yoshida, Kazuo; Kuriwaki, Tetsusho; and Hirado, Miharu, 4,687,894, Cl. 219-10.430.

Maeoka, Tadashi: *See*—
Matsuoka, Kaoru; Maeoka, Tadashi; Kajino, Jirou; Minabe, Hitoshi; and Tanaka, Tetsurou, 4,704,643, Cl. 360-71.000.

Maerfeld, Charles, to CGR Ultrasonic. Ultrasonic sensor for electronic sectorial scanning and echograph incorporating such a sensor. 4,694,700, 9-22-87, Cl. 75-628.000.

Maerte, Leo: *See*—
Graf, Lothar; Maerte, Leo; and Skorka, Thomas, 4,694,977, Cl. 222-259.000.

Maerz, Reinhard; and Heise, Gerhard, to Siemens Aktiengesellschaft. Method for manufacturing a surface grating of a defined grating constant on regions of a mesa structure. 4,670,093, 6-2-87, Cl. 156-649.000.

Maes, Daniel; and Brudney, Norman, to Richardson-Vicks Limited. Hair treating composition. 4,705,681, 11-10-87, Cl. 424-70.000.

Maes, Dirk: *See*—
van Bogaert, Philippe; and Maes, Dirk, 4,703,779, Cl. 139-435.000.

Maes, Jean P.: *See*—
Darden, Jerome W.; Triebel, Carol A.; Van Neste, Walter A.; and Maes, Jean P., 4,647,392, Cl. 252-75.000.

Maesaka, Michinobu; Watanabe, Koichi; and Murata, Michihiro, to Murata Manufacturing Co., Ltd. Method of manufacturing an electric double-layer capacitor. 4,683,639, 8-4-87, Cl. 29-570.100.

Maesaka, Michinobu: *See*—
Watanabe, Koichi; and Maesaka, Michinobu, 4,697,224, Cl. 361-433.000.

Maeshima, Katsuyoshi, to Canon Kabushiki Kaisha. Image processing system with real time image process. 4,701,805, 10-20-87, Cl. 358-282.000.

Maeshima, Seiichi, to Descente, Ltd. Protector for sportswear. 4,688,269, 8-25-87, Cl. 2-2.000.

Maetani, Kazuo; and Wada, Keisuke, to Sumitomo Metal Mining Company Limited. Selectively plating apparatus for forming an annular coated area. 4,675,093, 6-23-87, Cl. 204-224.00R.

Maetani, Masami; and Yanagawa, Hitoshi, to Canon Kabushiki Kaisha. Web feeding apparatus with web slowdown. 4,663,573, 5-5-87, Cl. 318-6.000.

Maeyama, Tsutomu; Kaneko, Kenji; and Ishii, Shigeru, to Lion Corporation. Oral composition containing zirconium-bonded synthetic amorphous silicate. 4,702,904, 10-27-87, Cl. 424-52.000.

Maezawa, Shuji, to Seiko Epson Kabushiki Kaisha. Liquid crystal video display device. 4,660,030, 4-21-87, Cl. 340-784.000.

Maezawa, Tokio; and Furukawa, Koichi, to Sharp Kabushiki Kaisha. Paper loading system for use in a printer. 4,647,239, 3-3-87, Cl. 400-708.000.

Maezono, Masakazu; Shimizu, Takeyuki; and Ishikawa, Keiichi, to Honda Giken Kogyo Kabushiki Kaisha. Brake and speed responsive controlled transmission. 4,645,051, 2-24-87, Cl. 192-0.055.

Maffert, Jerome: *See*—
Grenier, Gilles; Maffert, Jerome; Merle, Jean-Pierre; and des Ordons, Jacques R., 4,710,028, Cl. 356-375.000.

Maffey, Constant O. Security device for trailer. 4,697,444, 10-6-87, 70-232.000.

Maffi, Silvia: *See*—
Giuffre, Luigi; Modica, Giovanni; Maffi, Silvia; Tempesti, E and Pierini, Gtancarlo, 4,663,012, Cl. 204-296.000.

Maffrand, Jean P.: *See*—
Bayol, Alain; Lansen, Jacqueline; Maffrand, Jean P.; Perei Jean-Marie; and Vallee, Eric, 4,699,900, Cl. 514-54.000.

Maffrand, Jean-Pierre: *See*—
Bayol, Alain; Blanc, Francis; Lansen, Jacqueline; Maffrand, Je Pierre; and Pereillo, Jean-Marie, 4,713,373, Cl. 514-54.000.

Mag Instrument, Inc.: *See*—
Maglica, Anthony, 4,656,565, Cl. 362-187.000.
Maglica, Anthony, 4,658,336, Cl. 362-197.000.

Maga, Raymond A.: *See*—
Nestor, Charles R.; Maga, Raymond A.; and Bensing, Gregory 4,679,885, Cl. 439-620.000.

Magadini, Charles R. Increasing the load carrying capacity of bea 4,704,830, 11-10-87, Cl. 52-226.000.

Magaha, George H., Jr., to Economy Distributors, Inc. Shower he attachment and liquid detergent for use therein. 4,651,930, 3-24- Cl. 239-318.000.

Magaha, Harold S.: *See*—
Karol, Thomas J.; Magaha, Harold S.; and Schlicht, Raymond 4,647,389, Cl. 252-51.50A.

Magalhaes, Frank M.: *See*—
Bowman, Wayne C.; Magalhaes, Frank M.; Suiter, Weyman B., and Ziesse, Norman G., 4,685,041, Cl. 363-40.000.

Magami, Masato; Saeki, Kazumi; Miura, Takanori; and Inoue, Takes to Yoshitomi Pharmaceutical Industries, Ltd. Phthalate compoun 4,695,649, 9-22-87, Cl. 560-86.000.

Magar, Surendar S.; and Gass, Wanda K., to Texas Instruments Inco porated. Microcomputer device having test mode substituting ext nal RAM for internal RAM. 4,677,586, 6-30-87, Cl. 364-900.000.

Magar, Surendar S.; Essig, Daniel L.; Simpson, Richard D.; and Ca del, Edward R., to Texas Instruments Incorporated. Microprocess with block move instruction. 4,713,748, 12-15-87, Cl. 364-200.000.

Magar, Surendar S.; and Essig, Daniel L., to Texas Instruments Inco porated. Microprocessor with repeat instruction. 4,713,749, 12-15- Cl. 364-200.000.

Magara, Takuji: *See*—
Aramaki, Jun; Karashima, Toshiharu; Magara, Takuji; and Ushi Minoru, 4,698,477, Cl. 219-69.00R.

Magara, Tsunao: *See*—
Sato, Yoshihisa; Hirao, Tetsuji; Magara, Tsunao; and Shirato Kohya, 4,666,929, Cl. 514-357.000.

Magarino, Jose; Szydlo, Nicolas; Hareng, Michel; and Landou Pierre, to Thomson-CSF. Process for the production of a substra for an electrically controlled device and display screen produc from such a substrate. 4,643,527, 2-17-87, Cl. 350-333.000.

Magaritz, Mordeckai; Goldenberg, Lior; Mandel, Shmuel; and Ami Abraham J., to Yeda Research and Development Co., Ltd. Seali ponds and reservoirs by natural materials. 4,647,259, 3-3-87, 405-270.000.

Magarshack, John, to Thomson-CSF. Ultra-high frequency sign switching matrix having active component switching junctio 4,682,127, 7-21-87, Cl. 333-103.000.

Magata, Yutaka: *See*—
Amemiya, Tsuguo; Magata, Yutaka; Fujimatsu, Satoshi; a Morita, Masahiro, 4,694,147, Cl. 235-379.000.

Magathan, Paul J.: *See*—
Liefer, Allen C.; Loewen, Gilbert L.; and Magathan, Paul 4,709,519, Cl. 52-98.000.

Magauran, Edward D.; Cody, Charles A.; Reichert, William W.; Kiek Mauriello D.; Kemnetz, Steven J.; and Chiavoni, Araxi, to NL Indu tries, Inc. Preactivated organophilic clay gellant lubricating grea thickened with preactivated organophilic clay gellant and process f preparing preactivated organophilic clay gellants. 4,664,820, 5-12-8 Cl. 252-28.000.

Magauran, Edward D.: *See*—
Finlayson, Claude M.; Cody, Charles A.; Kemnetz, Steven J Reichert, William W.; Magauran, Edward D.; and Johnso Johnny R., 4,695,402, Cl. 252-315.200.

Magay, Daniel: *See*—
Toy, Lester T.; and Magay, Daniel, 4,687,280, Cl. 439-874.000.

Magdelain, Robert S., to A/S Fisker & Nielsen. Cleaner apparatus f toxic or hazardous substances. 4,650,505, 3-17-87, Cl. 55-316.000.

Magdelain, Robert S., to A/S Fisker & Nielsen. Cleaner apparatus f toxic or hazardous substances. 4,689,059, 8-25-87, Cl. 55-382.000.

Magdenko, Vladimir S.: *See*—
Alexandrov, Adolf M.; Vasiliev, Evgeny G.; Iskanderov, Alexand A.; Magdenko, Vladimir S.; Melikov, Semen G.; Avsharo Eduard R.; Tsimbler, Jury A.; and Presnyakov, Vladimir 4,711,182, Cl. 104-283.000.

Magder, Max, to DuBarry Furniture of Canada Limited. Upholstere furniture. 4,711,495, 12-8-87, Cl. 297-440.000.

Magdesyan, Garnik; Magdesyan, Stepan; and Boodanian, Leon Battery terminal post clamp. 4,695,118, 9-22-87, Cl. 439-726.000.

Magdesyan, Stepan: *See*—
Magdesyan, Garnik; Magdesyan, Stepan; and Boodanian, Leon P 4,695,118, Cl. 439-726.000.

Magdics, Alex: *See*—
Worthington, Ralph E.; and Magdics, Alex, 4,652,431, C 423-10.000.
Worthington, Ralph E.; and Magdics, Alex, 4,652,432, C 423-10.000.

Magdolen, Viktor: *See—*
Brychta, Ondrej; Tlucko, Jozef; Magdolen, Viktor; Brostik, Miroslav; and Klimacek, Dusan, 4,691,700, Cl. 128-200.210.

Magdon, John: *See—*
Haardt, Henry; and Magdon, John, 4,681,295, Cl. 249-135.000.

Mage AG: *See—*
Gehring, Manfred; and Pluss, Heinz, 4,715,626, Cl. 285-230.000.

Mage, Allen B. Three dimensional display device folded from a single sheet of material. 4,708,911, 11-24-87, Cl. 428-542.800.

Mageau, Paul J.: *See—*
Arlan, Lionel; Westcott, Peter W.; and Mageau, Paul J., 4,660,096, Cl. 358-310.000.

Mageba Textilmaschinen GmbH: *See—*
Klos, Heinrich, 4,688,598, Cl. 139-383.00R.

Magee, Anthony J. Sensing of fire installation water valves being closed. 4,696,325, 9-29-87, Cl. 137-552.000.

Magee, Arthur W., to Long Mile Rubber Company. Hub replacement device for tire retreading apparatus. 4,662,834, 5-5-87, Cl. 425-36.000.

Magee, C. Scott: *See—*
Shero, David J.; Dadpey, Habib; and Magee, C. Scott, 4,673,859, Cl. 318-810.000.

Magee, Charles W.; and Hewitt, Lori R., to RCA Corporation. Apparatus and method for producing ions. 4,691,109, 9-1-87, Cl. 250-426.000.

Magee, Charles W.; and Honig, Richard E., to RCA Corporation. Apparatus and method for producing ions. 4,697,085, 9-29-87, Cl. 250-426.000.

Magee, Kevin J.: *See—*
Birkenbach, Eugen J.; Eversole, Brad K.; and Magee, Kevin J., 4,712,622, Cl. 172-328.000.

Magee, Mark R.; and Saffran, Richard E., to GTE Government Systems Corporation. Apparatus for and method of doppler motion detection with standing wave drift compensation. 4,661,936, 4-28-87, Cl. 367-94.000.

Magee, Robert D.; Asztalos, Michael J.; and Trinh, Vuong D., to Westinghouse Electric Corp. Passive depressurization system. 4,664,877, 5-12-87, Cl. 376-307.000.

Magee, Robert J., to Charles Stark Draper Laboratory, Inc., The. Fiber optic lens. 4,650,279, 3-17-87, Cl. 350-96.240.

Magee, Robert L., Jr.; and Traweek, Marvin B., IV, to Arlington Automatics Inc. Apparatus for blocking communication between well bore intervals. 4,638,860, 1-27-87, Cl. 166-114.000.

Magee, Robert L., Jr.; and Traweek, Marvin B., IV, to Arlington Automatics Inc. Apparatus for selectively injecting treating fluids into earth formations. 4,671,352, 6-9-87, Cl. 166-186.000.

Magee, Terence E., to Standard Telephones and Cables Public Limited Company. Integrated circuits. 4,642,667, 2-10-87, Cl. 357-35.000.

Magel, Gregory A.: *See—*
Fejer, Martin M.; Magel, Gregory A.; and Byer, Robert L., 4,650,322, Cl. 356-73.100.

Magel, Rolf: *See—*
Bletz, Walter; and Magel, Rolf, 4,647,175, Cl. 354-473.000.
Bletz, Walter; and Magel, Rolf, 4,694,155, Cl. 250-214.00R.

Magenheim, Bertram; and Rocks, James K., to University Research Foundation. Microwave ice accretion measuring instrument. 4,688,185, 8-18-87, Cl. 364-563.000.

Magennis, Thomas P.: *See—*
Keady, Peter; and Magennis, Thomas P., 4,709,817, Cl. 206-523.000.

Mager, Eric L., to GTE Products Corporation. Fluorescent lamp having two phosphor layers. 4,678,966, 7-7-87, Cl. 313-487.000.

Mager, Theodor: *See—*
Sutterlin, Norbert; Blitz, Hans-Dieter; Mager, Theodor; Jagsch, Karl-Heinz; and Tessmer, Dieter, 4,713,434, Cl. 526-62.000.

Magera, Matthias R. Insulator for water-cooled skid and crossover pipe network. 4,687,027, 8-18-87, Cl. 138-149.000.

Magerle, Karl, to KMK Karl Magerle Lizenz. Container of tubular form. 4,664,284, 5-12-87, Cl. 220-67.000.

Magerlein, Helmut: *See—*
Diamantoglou, Michael; Magerlein, Helmut; Brodowski, Walter; Grimm, Wolfgang; and Meyer, Gerhard, 4,708,985, Cl. 525-166.000.

Magerowski, Anthony J.: *See—*
Karra, Vijia K.; and Magerowski, Anthony J., 4,671,464, Cl. 241-21.000.

Magers, Ronald G. Domed spinning top. 4,643,692, 2-17-87, Cl. 446-259.000.

Maget, Henri J. R., to IVAC Corporation. Planar multi-junction electrochemical cell. 4,648,955, 3-10-87, Cl. 204-258.000.

Maget, Henri J. R.; and Krejci, Paul, to Ivac Corporation. Electrochemically-driven pulsatile drug dispenser. 4,687,423, 8-18-87, Cl. 417-379.000.

Maggard, George H.: *See—*
Lockwood, George C.; Topich, James A.; Turi, Raymond A.; and Maggard, George H., 4,683,554, Cl. 365-185.000.

Maggi, Carlo, to Surgivision Limited. Intraocular lens. 4,657,547, 4-14-87, Cl. 623-6.000.

Maggio, Brenda S.: *See—*
Chiappetta, Peggy L.; and Maggio, Brenda S., 4,662,518, Cl. 206-449.000.

Maggio, Charles F.; and Spombiantti, Angelina M. Method of using a bed sheet stay. 4,635,308, 1-13-87, Cl. 5-508.000.

Maggio, Joseph, to Medicore, Inc. Disposable automatic lancet. 4,715,374, 12-29-87, Cl. 128-314.000.

Maggio, Joseph: *See—*
Chiodo, Daniel J.; and Maggio, Joseph, 4,658,821, Cl. 128-314.000.

Maggio, Lewis R. Fast fit liner for earth ball. 4,646,470, 3-3-87, Cl. 47-76.000.

Maggs, Frederick A. P., to Charcoal Cloth Ltd. Activated carbon products and their manufacture. 4,657,808, 4-14-87, Cl. 428-263.000.

Maggs, Lou M.; and Bauer, Walter B., to William Bayley Company, The. Security bars and barrier grids incorporating same. 4,669,239, 6-2-87, Cl. 52-106.000.

Maghemite Inc.: *See—*
Whiteley, Eric, 4,710,667, Cl. 310-268.000.

Maghenzani, Tersillo, to Pompe F.B.M. S.p.A. Centrifugal pump for very thick and/or viscous materials and products. 4,648,796, 3-10-87, Cl. 415-215.000.

Maghon, Helmut, to Kraftwerk Union Aktiengesellschaft. Method of manufacturing and mounting a split spur gear with external teeth. 4,669,165, 6-2-87, Cl. 29-159.200.

Maghon, Helmut; and Becker, Bernard, to Kraftwerk Union Aktiengesellschaft. Combustion chamber apparatus for combustion installations, especially for combustion chambers of gas turbine installations, and a method of operating the same. 4,701,124, 10-20-87, Cl. 431-284.000.

Magi, Hugo; Boas, Arthur J.; and Waese, Jerry R., to Cabletest International Inc. Test apparatus. 4,636,847, 1-13-87, Cl. 358-101.000.

Magi, Raffaello: *See—*
Tega, Ezio; Piccini, Fabrizio; Mazzini, Marco; and Magi, Raffaello, 4,711,015, Cl. 29-566.200.

Magic American Chemical Corporation: *See—*
Zeilinger, Alan, 4,706,427, Cl. 52-288.000.

Magid, David J.; Svitila, Barbara; and Kalriess, William, to Enviro-Spray Systems, Incorporated. Dispensing system with inflatable bag propelling mechanism and separate product gas phase. 4,679,706, 7-14-87, Cl. 222-130.000.

Magid, Robert; and Choong, John, to Magid, Robert. Bendable elbow connector. 4,640,642, 2-3-87, Cl. 403-157.000.

Magid, Robert; and Choong, John. Dismountable structure. 4,711,595, 12-8-87, Cl. 403-108.000.

Magill, Edward G., to Eaton Corporation. Surface acoustic wave tapped meander delay line. 4,635,007, 1-6-87, Cl. 333-153.000.

Magill, Lawrence, to British Telecommunications plc. Self-fleeting cable winch. 4,676,483, 6-30-87, Cl. 254-266.000.

Magill-Stephenson Company Limited: *See—*
Briltz, Raymond P., 4,710,290, Cl. 210-199.000.

Magilton, Thomas C., to Maytag Company, The. Panel alignment system. 4,682,267, 7-21-87, Cl. 361-331.000.

Magin, Berthold, to MTM Obermaier GmbH & Co. KG. Device for continuous and tension-free treatment of textile fabric sheets. 4,677,717, 7-7-87, Cl. 26-18.500.

Magin, Gregory A.: *See—*
Woodworth, Donald J.; and Magin, Gregory A., 4,636,736, Cl. 329-50.000.

Magistretti, Maria J.: *See—*
Bombardelli, Ezio; Gabetta, Bruno; and Magistretti, Maria J., 4,636,569, Cl. 549-403.000.

Magladry, Robert: *See—*
Weiner, Robert I.; and Magladry, Robert, 4,633,974, Cl. 182-3.000.
Weiner, Robert I.; and Magladry, Robert, 4,674,596, Cl. 182-3.000.

Magliano, Silvio, to American Standard Inc. Irreversible free wheeling clutch. 4,706,791, 11-17-87, Cl. 192-8.00R.

Maglica, Anthony, to Mag Instrument, Inc. Flashlight. 4,656,565, 4-7-87, Cl. 362-187.000.

Maglica, Anthony, to Mag Instrument, Inc. Miniature flashlight. 4,658,336, 4-14-87, Cl. 362-197.000.

Magma Copper Company: *See—*
Dopson, Gaylord W., 4,664,324, Cl. 241-182.000.

Magma Power Company: *See—*
Bonham, Enos A., Jr., 4,665,705, Cl. 60-641.500.

Magna-Graphics Corporation: *See—*
Leanna, Dale D.; Wittkopf, Eugene R.; and Jorgensen, Allen R., 4,704,296, Cl. 427-9.000.

Magna International Inc.: *See—*
Fisher, Robert J., 4,678,295, Cl. 350-634.000.
Harding, Dukecal J., 4,707,030, Cl. 297-341.000.
Hessler, Alfred; and Bartczak, Andrzej, 4,652,052, Cl. 297-341.000.

Magnaflux Corporation: *See—*
Lorenzi, Donald E.; and Wagerer, Helmut F., 4,633,620, Cl. 51-165.00R.
Schiffert, Phillip W., 4,703,263, Cl. 324-216.000.
Torre, Rocco, 4,659,990, Cl. 324-238.000.

Magnaflux Pipeline Services, Inc.: *See—*
Lorenzi, Donald E.; Wagerer, Helmut F.; and Spevak, Lev, 4,641,529, Cl. 73-601.000.

Magnaghi, Edgardo: *See—*
Bosco, Angelo; and Magnaghi, Edgardo, 4,714,212, Cl. 242-182.000.

Magnaghi Oleodinamica S.p.A.: *See—*
Tovagliaro, Constantino, 4,714,094, Cl. 138-31.000.
Violante De Dionigi, Francesco, 4,699,043, Cl. 91-182.000.

Magnan, Jeffrey J., to Gaastra Sails International Limited. Flex wing apparatus. 4,686,921, 8-18-87, Cl. 114-102.000.

Magnan, Jeffrey J., to Gaastra Sails International Ltd. Flex wing apparatus with resilient couplings. 4,708,079, 11-24-87, Cl. 114-103.000.

Magnan, Michael B.: *See—*
Grawi, Franklin L.; and Magnan, Michael B., 4,713,097, Cl. 55-276.000.

Magnani, Francesco; and Invernizzi, Attilio, to Societa' Cavi Pirelli S.p.A. Articulated cable bend limiting apparatus. 4,703,135, 10-27-87, Cl. 174-135.000.

Magnante, Peter C., to Cambridge Instruments Inc. Ocular scattering analyzer. 4,702,576, 10-27-87, Cl. 351-214.000.

Magnavox Government and Industrial Electronics Company: *See*—
Barker, Robert L., 4,654,832, Cl. 367-4.000.
Congdon , John C.; Richter, Thomas A.; and Slachta, Joseph J., 4,689,773, Cl. 367-3.000.
Congdon, John C.; and Whitmore, Thomas A., 4,700,100, Cl. 310-332.000.
Congdon, John C., 4,706,229, Cl. 367-159.000.
Diepeveen, Neal; and Bastian, Robert, 4,641,192, Cl. 358-206.000.
Diepeveen, Neal; and Bastian, Robert E., 4,682,029, Cl. 250-330.000.
Grandos, Norman, 4,660,040, Cl. 342-128.000.
Mulokey, William P.; and Weisskopf, Peter A., 4,661,914, Cl. 364-505.000.

Magne, Francois, to U.S. Philips Corporation. Arrangement for measuring velocity with respect to a surface. 4,706,092, 11-10-87, Cl. 342-109.000.

Magnenet, Jean, to Cii Honeywell Bull (Societe Anonyme). Non-impact printing apparatus. 4,657,416, 4-14-87, Cl. 400-119.000.

Magnes, Herbert. Liquid level control system. 4,706,310, 11-17-87, Cl. 4-508.000.

Magnesys: *See*—
Galli, Guido; Grillo, Alexander A.; and Lieberman, Barry R., 4,694,424, Cl. 365-12.000.

MagneTek, Inc.: *See*—
Burke, Robert V., 4,686,427, Cl. 315-219.000.
MacDonald, Daniel J.; and Jones, Thomas H., 4,683,392, Cl. 310-105.000.
Nolan, Dennis C.; and Bluma, David A., 4,716,348, Cl. 318-479.000.

Magneti Marelli S.p.A.: *See*—
Carducci, Carlo, 4,707,876, Cl. 15-250.230.

Magnetic Controls Company: *See*—
Roberts, Harold, 4,699,453, Cl. 350-96.200.
Vachhani, Vasantrai A.; and Humphrey, John W., 4,662,699, Cl. 339-97.00P.
Vachhani, Vasantrai A.; and Bodimer, Gilbert D., 4,669,799, Cl. 439-404.000.
Vachhani, Vasantrai A.; and Bodimer, Gilbert D., 4,702,544, Cl. 439-395.000.

Magnetic Elektromotoren A.G. Liestal: *See*—
Uebelhart, Hugo, 4,635,492, Cl. 74-89.150.

Magnetic Information Technology, Inc.: *See*—
Daste, John J.; and Butsch, Otto R., 4,651,243, Cl. 360-104.000.

Magnetic Massage Company: *See*—
Sato, Ray S., 4,691,693, Cl. 128-24.100.

Magnetic Peripherals Inc.: *See*—
Chen, Di, 4,670,869, Cl. 369-109.000.
Cronch, Robert D.; and Koudele, Larry J., 4,712,076, Cl. 331-16.000.
Elliott, Mark L., 4,677,507, Cl. 360-78.000.
Gitzendanner, Louis G., 4,646,193, Cl. 360-133.000.
Gitzendanner, Louis G., 4,701,818, Cl. 360-106.000.
Janssen, Robert A.; and Sorenson, Gary D., 4,642,246, Cl. 427-127.000.
Nygren, Gordon W.; and Mourning, Richard C., 4,668,097, Cl. 366-162.000.
Perlov, Craig M.; and Calderon, Arthur, Jr., 4,667,260, Cl. 360-122.000.
Pottebaum, Kenneth L., 4,662,830, Cl. 417-424.000.
Schwarz, Edward L.; and Schwarz, Theodore A., 4,647,993, Cl. 360-84.000.
Schwarz, Theodore A., 4,636,886, Cl. 360-84.000.
Wilcox, Lawrence A., 4,652,779, Cl. 310-13.000.

Magnetic Power Systems, Inc.: *See*—
Rubin, Alexander M., 4,666,025, Cl. 192-70.280.

Magnetics Research International Corporation: *See*—
McGee, Daniel W., 4,639,626, Cl. 310-155.000.

Magneville, Pierre, to Institut Francais Du Petrole. Vertical marine streamer. 4,694,435, 9-15-87, Cl. 367-17.000.

Magni, Ambrogio: *See*—
Malabarba, Adriano; Magni, Ambrogio; Strazzolini, Paolo; Cavalleri, Bruno; and Trani, Aldo, 4,661,470, Cl. 514-9.000.

Magni, Dino-Franco: *See*—
Magni, Giuliano, 4,711,067, Cl. 53-439.000.

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Magnier, Claude, to Rhone-Poulenc Specialites Chimiques. Catalyst support and process for preparing same. 4,673,663, 6-16-87, Cl. 502-320.000.

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Bourgeois, Jean-Paul; Couffin, Frederic; and Magnier, Claude, 4,671,949, Cl. 423-315.000.
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Gourlaouen, Claire; Magnier, Claude; Latourrette, Bertrand; Tugaye, Anne; and Deneuve, Francoise, 4,698,175, Cl. 252-182.000.

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Broihanne, Georges; and Magnier, Pierre, 4,700,768, Cl. 164-361.000.

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Loftin, Rayford A., 4,709,359, Cl. 367-155.000.

Magnum Diamond Reclamation, Inc.: *See*—
Mastel, Douglas J.; and Baribeau, Alan D., 4,662,075, Cl. 33-628.000.

Magnum Piering, Inc.: *See*—
Rippe, Dondeville M., 4,708,528, Cl. 405-230.000.
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Thorgeirsson, Markus B., deceased; and Magnusdottir, Helena R., sole heir, 4,652,246, Cl. 441-80.000.

Magnuson, Douglas; Wolff, Merle; Lev, Sam; Jeffries, Kenneth; and Mapes, Scott D., to Energy Conversion Devices, Inc. Method for making electrode material from high hardness active materials. 4,670,214, 6-2-87, Cl. 419-3.000.

Magnuson, James M., to Peddinghaus Corporation. Flame cutting apparatus for coping I-beams. 4,662,612, 5-5-87, Cl. 266-48.000.

Magnuson, James M., to Peddinghaus Corporation. Workpiece advancing apparatus. 4,715,774, 12-29-87, Cl. 414-751.000.

Magnuson, Robert E., to Lee Controls, Inc. Linear motion pillow blocks including self-aligning features. 4,715,730, 12-29-87, Cl. 384-52.000.

Magnuson, Roy H.; and Schubert, Steven A., to International Business Machines Corporation. Determination of amount of anionic material in a liquid sample. 4,666,858, 5-19-87, Cl. 436-104.000.

Magnuson, Roy H.: *See*—
Fey, Edmond O.; Haselbauer, Peter; Jung, Dae Y.; Kaschak, Ronald A.; Kilthau, Hans-Dieter; Magnuson, Roy H.; and Wagner, Robert J., 4,684,545, Cl. 427-98.000.

Magnuson, Ruel D., to Clevite Industries Inc. Quick disconnect coupling with a lockable valve actuator. 4,664,148, 5-12-87, Cl. 137-614.050.

Magnussen, Haakon T., Jr.; Smith, Gary L.; Ruskewicz, Stephen J.; and Wingo, Anthony K., to Rainin Instrument Co., Inc. Methods and apparatus for pipetting and/or titrating liquids using a hand held self-contained automated pipette. 4,671,123, 6-9-87, Cl. 73-864.160.

Magnusson, Dan A.: *See*—
Berglund, Bengt G.; Falk, Karl-Erik L.; Magnusson, Dan A.; Nilson, Nils B.; and Nilsson, Ake S., 4,695,272, Cl. 604-84.000.

Magnusson, Goran: *See*—
Dahmen, Jan; Frejd, Torbjorn; Magnusson, Goran; and Noori, Ghazi, 4,675,392, Cl. 536-17.600.

Magnusson, Kjell-Eric, to De-Icing System K.B. Aircraft de-icing system. 4,634,084, 1-6-87, Cl. 244-134.00C.

Magnusson, Nils O., to Tetra Pak International AB. Packing container provided with a sine curve tear-up opening arrangement. 4,655,387, 4-7-87, Cl. 229-17.00R.

Magolda, Ronald L.; Confalone, Pasquale N.; and Johnson, Paul R., to Du Pont de Nemours, E. I., and Company. Analogs of platelet activating factor. 4,702,864, 10-27-87, Cl. 260-402.500.

Magome, Kazuo: *See*—
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Magome, Koichi; Toda, Haruki; Koinuma, Hiroyuki; Sahara, Hiroshi; Suzuki, Kiminobu; Ohshima, Shigeo; and Komatsu, Kenji, to Kabushiki Kaisha Toshiba. Flip-flop circuit. 4,678,934, 7-7-87, Cl. 307-279.000.

Magome, Nobutaka; and Ichihara, Yutaka, to Nippon Kogaku K. K. Position detection apparatus. 4,710,026, 12-1-87, Cl. 356-349.000.

Magoon, Inder K.; and Mayer, Robert E., to General Electric Company. Liquid propellant gun. 4,693,165, 9-15-87, Cl. 89-7.000.

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Magori, Valentin, to Siemens Aktiengesellschaft. Ultrasonic detection sensor in hybrid structure with appertaining electronic circuit. 4,656,384, 4-7-87, Cl. 310-334.000.

Magori, Valentin: *See*—
Kleinschmidt, Peter; and Magori, Valentin, 4,677,337, Cl. 310-334.000.

Magourou, Yves L., to Societe de Exploitation des Procedes Marechal. Electric cable connector handle. 4,640,568, 2-3-87, Cl. 339-103.00R.

Magous, Richard: *See*—
Martinez, Jean; Bali, Jean-Pierre; Magous, Richard; Castro, Bertrand; and Demarne, Henri, 4,687,759, Cl. 514-18.000.
Martinez, Jean; Bali, Jean-Pierre; Magous, Richard; Castro, Bertrand; and Demarne, Henri, 4,687,760, Cl. 514-18.000.

Magrane, Mark G., to General Electric Company. Variable focusing in ultrasound imaging using non-uniform sampling. 4,669,314, 6-2-87, Cl. 73-610.000.

Magrath Company, The: *See*—
Magrath, Joseph M.; Tice, Thomas R.; Meyers, William E.; and Dappert, Thomas O., 4,696,258, Cl. 119-1.000.

Magrath, Joseph M.; Tice, Thomas R.; Meyers, William E.; and Dappert, Thomas O., to Magrath Company, The. Method and substance for the detection of cows in estrus. 4,696,258, 9-29-87, Cl. 119-1.000.

Magrini, Kenneth H.: *See*—
Delgado, Robert F.; and Magrini, Kenneth H., 4,669,416, Cl. 118-503.000.

Magro, William E.: *See*—
Gulezian, Haig A.; Hargrave, Russell W., III; and Magro, William E., 4,675,903, Cl. 379-433.000.

Magrobi, Brian, to Genis, Johan C. Vehicle security devices. 4,683,735, 8-4-87, Cl. 70-168.000.

Magruder, Thomas A.; and Crowell, Robert L. Sailing wing. 4,682,557, 7-28-87, Cl. 114-39.000.

Magtrol, Inc.: *See*—
Duncan, John E., 4,655,616, Cl. 384-446.000.

Maguire, Addison C.: *See*—
Wright, William B.; and Maguire, Addison C., 4,688,995, Cl. 416-127.000.

Maguire, Edward A.; Hartnett, Thomas M.; and Gentilman, Richard L., to Raytheon Company. Method of producing aluminum oxynitride having improved optical characteristics. 4,686,070, 8-11-87, Cl. 264-1.200.

Maguire, James. Furnace register humidifier. 4,706,552, 11-17-87, Cl. 98-30.000.

Maguire, John B. Auxiliary window lock. 4,713,911, 12-22-87, Cl. 49-394.000.

Maguire, Sara B. Sheet bedding construction for institutional use. 4,680,821, 7-21-87, Cl. 5-413.000.

Maguire, Walter R.: *See*—
Allebest, Edward F.; Hansen, Parley E.; Walsh, George A.; and Maguire, Walter R., 4,644,515, Cl. 369-32.000.
Allebest, Edward F.; Hansen, Parley E.; Walsh, George A.; and Maguire, Walter R., 4,701,896, Cl. 369-32.000.

Maguran, Gene A.: *See*—
Taxon, Morse N.; and Maguran, Gene A., 4,655,396, Cl. 239-533.900.

Magurit-Gefrierschneider GmbH: *See*—
Hager, Juergen; Vieth, Walter; and Manderla, Werner, 4,638,697, Cl. 83-356.300.

Magyar: *See*—
Magyar, Georges, 4,647,119, Cl. 339-10.000.

Magyar Aluminiumipari Troszt: *See*—
Harsanyi, Jozsef; Kiss, Zoltan; Kukonya, Ferenc; Pinter, Janos; Suri, Alajos; and Toth, Andras, 4,657,668, Cl. 209-158.000.

Magyar, Arpad M., to Pennzoil Company. Surface cleaner composition. 4,670,171, 6-2-87, Cl. 252-529.000.

Magyar Asvanyolaj es Foldgaz Kiserleti: *See*—
Nagy, Zoltan; Hupka, Gyorgy; Szalay, Otto; and Kovacs, Attila, 4,681,531, Cl. 431-181.000.

Magyar, Georges, to Magyar. Support plate for the coupling means and electrical connections of an insulated semitrailer cistern. 4,647,119, 3-3-87, Cl. 339-10.000.

Magyar, Karoly: *See*—
Bezzegh, Denes; Magyar, Karoly; Kelemen, Jozsef; Zalai, Gabor; Mandi, Attila; and Egri, Janos, 4,680,315, Cl. 514-738.000.

Magyar Optikai Muvek: *See*—
Tarcsafalvi, Andras, 4,635,375, Cl. 33-318.000.

Magyar Szenhidrogenipari Kutato-Fejleszto Intezet: *See*—
Baviere, Marc; Moulu, Jean-Claude; Paal, Tibor; Tiszai, Gyorgy; Gaal, Gyorgyi; Schmidt, Laszlo; and Gesztesi, Gyula, 4,648,451, Cl. 166-273.000.

Magyar Tudomanyos Akademia Kozponti Hivatals: *See*—
Pungor, Erno; Toth, Klara; Pal, Ferenc; Eros, Bela; Nagy, Jozsef; and Bihatsi, Laszlo, 4,634,982, Cl. 324-448.000.

Magyar Tudomenyos Akademia Novenyvedelmi Kutato Intezete: *See*—
Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Ageta; Cserhati, Tibor; Gerlei nee Komaromy, Aniko; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.

Magyari, Istvan: *See*—
Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavliscsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.

Mahabir, Aloysius G.: *See*—
Vincent, David; and Mahabir, Aloysius G., 4,642,725, Cl. 361-154.000.

Mahadevan, Parameswar; Chang, Elfreda T.; and Breisacher, Peter, to United States of America, Air Force. Apparatus for electrostatic filtration of N_2O_4 for removal of solid and vapor contaminants. 4,657,639, 4-14-87, Cl. 202-182.000.

Mahaffee, Joseph W., III: *See*—
Douglass, Harold E., Jr.; and Mahaffee, Joseph W., III, 4,709,652, Cl. 116-140.000.

Mahaffey, Robert L., Jr.: *See*—
Moore, Patrick D.; and Mahaffey, Robert L., Jr., 4,658,064, Cl. 564-443.000.

Mahaffy & Harder Engineering Co.: *See*—
Mahaffy, Reid A.; Garson, Eugene; and Ostrow, Milan R., 4,709,535, Cl. 53-473.000.

Mahaffy Materials Handling Ltd.: *See*—
Edmeads, Ralph W., 4,664,582, Cl. 414-401.000.

Mahaffy, Reid A.; Garson, Eugene; and Ostrow, Milan R., to Mahaffy & Harder Engineering Co. Packaging loader apparatus for sliced food products. 4,709,535, 12-1-87, Cl. 53-473.000.

Mahajan, Gautam K.: *See*—
Marsella, Louis J.; and Mahajan, Gautam K., 4,704,180, Cl. 156-324.000.

Mahajan, Satish W.: *See*—
Mandal, Arun K., Jawalkar, Damodar G.; and Mahajan, Satish W., 4,680,418, Cl. 549-305.000.

Mahal, Mohan S.: *See*—
Barnes, Bruce E.; and Mahal, Mohan S., 4,670,013, Cl. 604-403.000.

Mahalek, Josef; and Vetter, Egon, to Telefunken electronic GmbH. Short circuit and overload protection circuit for output stage transistors. 4,695,915, 9-22-87, Cl. 361-56.000.

Mahalek, Thomas L.; and Santo, David R., to Xerox Corporation. Bead polymerization process for toner resin compositions. 4,659,641, 4-21-87, Cl. 430-137.000.

Mahan, Joe C. Apparatus for securing a fishing lure to a fishing line. 4,649,664, 3-17-87, Cl. 43-44.830.

Mahan, Joe C. Fishing lure with line connection means. 4,674,226, 6-23-87, Cl. 43-44.830.

Mahan, Richard L. Pickup truck tent arrangement with tailgate envelope, and method. 4,652,040, 3-24-87, Cl. 296-159.000.

Mahan, Richard L. Pickup truck tent pole anchor, operational combination utilizing same, and method. 4,657,299, 4-14-87, Cl. 296-159.000.

Mahanay, Joseph W.; and Savage, Lester D. Gerotor device with dual valving plates. 4,639,202, 1-27-87, Cl. 418-59.000.

Mahapatra, Amaresh; McMahon, Donald H.; Robinson, William C.; and Sanford, Norman A., to Polaroid Corporation. Integrated optic resonant structres and fabrication method. 4,695,121, 9-22-87, Cl. 350-96.120.

Mahapatra, Amaresh; and McMahon, Donald H., to Polaroid Corporation. Integrated optic multi/demultiplexer. 4,715,027, 12-22-87, Cl. 370-3.000.

Mahar, Michael L.: *See*—
Frushour, James E.; Mahar, Michael L.; Majka, Christopher J.; and Swenson, John E., 4,644,237, Cl. 318-313.000.

Maharshak, Arie. Card holder. 4,652,865, 3-24-87, Cl. 340-568.000.

Mahato, Basanta K.; and Delaney, William C., to Globe-Union, Inc. Formation efficiency of positive plates of a lead-acid battery. 4,656,706, 4-14-87, Cl. 29-2.000.

Mahawili, Imad, to Focus Semiconductor Systems, Inc. Fluidized bed heater for semiconductor processing. 4,673,799, 6-16-87, Cl. 219-399.000.

Mahawili, Imad, to Genus, Inc. Cooled optical window for semiconductor wafer heating. 4,680,447, 7-14-87, Cl. 219-343.000.

Mahefkey, Edward T., to United States of America, Air Force. Ventable survivable heat pipe vapor chamber spacecraft radiator. 4,706,740, 11-17-87, Cl. 165-104.140.

Maher, Daniel V.: *See*—
Kidd, Geoffrey; Maher, Daniel V.; and Cywinski, Jozef, 4,712,558, Cl. 128-421.000.

Maher, David P.: *See*—
Swiech, Tom E., Jr.; and Maher, David P., 4,642,959, Cl. 52-311.000.

Maher, Galeb H., to Sprague Electric Company. Capacitor with dielectric of PLZT and an intergranular borate. 4,706,163, 11-10-87, Cl. 361-321.000.

Maher, Joseph A.; Vowles, E. John; Napoli, Joseph D.; Zafiropoulo, Arthur W.; and Miller, Mark W., to General Signal Corporation. Quad processor. 4,715,921, 12-29-87, Cl. 156-345.000.

Maher, Joseph G.: *See*—
Kennedy, Gary D.; and Maher, Joseph G., 4,709,494, Cl. 40-152.000.

Maher, Thomas F.: *See*—
Eves, E. Eugene, II; and Maher, Thomas F., 4,684,777, Cl. 219-10.55A.

Maher, Thomas P., to Polaroid Corporation. Rapid, low cost information retrieval apparatus. 4,652,014, 3-24-87, Cl. 283-36.000.

Maher, Timothy J.: *See*—
Wurtman, Richard J.; and Maher, Timothy J., 4,673,689, Cl. 514-561.000.

Maher, Timothy R.: *See*—
Gregorich, Edward E.; and Maher, Timothy R., 4,690,245, Cl. 181-272.000.

Maheras, George: *See*—
Miller, Gayle W.; Szluk, Nicholas J.; McKinley, William W.; Hayworth, Hubert O.; and Maheras, George, 4,654,121, Cl. 156-653.000.
Miller, Gayle W.; Szluk, Nicholas J.; Maheras, George; and Metz, Werner A., Jr., 4,682,404, Cl. 29-571.000.

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Neyroud, Jean; Guillier, Alain; and Mahi, Abdelkader, 4,648,008, Cl. 361-387.000.

Mahieu, Claude; and Papantoniou, Christos, to Societe Anonyme dite: L'Oreal. Cosmetic compositions for hair and skin which contain a methacrylic or acrylic acid copolymer, an alkyl acrylate and/or methacrylate and an allyl derivative. 4,673,571, 6-16-87, Cl. 424-70.000.

Mahieu, Claude; and Papantoniou, Christos, to Societe Anonyme dite: L'Oreal. Process and composition for setting the hair. 4,676,263, 6-30-87, Cl. 132-7.000.
Mahieu, Marc: *See*—
Varon, Jacques J.; Martin, Marie-Josephe; and Mahieu, Marc, 4,646,116, Cl. 357-17.000.
Mahjour, Majid; Nesbitt, Russell U., Jr.; Fawzi, Mahdi B.; and Tedeschi, Bernadette, to Warner-Lambert Company. Transdermal formulations. 4,666,926, 5-19-87, Cl. 514-345.000.
Mahlberg, Gunther: *See*—
Klotzer, Sieghart; Mucke, Bruno; Mahlberg, Gunther; and Becker, Manfred, 4,705,747, Cl. 430-550.000.
Mahle GmbH: *See*—
Ellermann, Jurgen; Pfeiffenberger, Horst; and Ripberger, Emil, 4,669,366, Cl. 92-225.000.
Kohnert, Hans-Jurgen, 4,633,764, Cl. 92-208.000.
Kohnert, Hans-Jurgen, 4,662,326, Cl. 123-193.00P.
Ripberger, Emil; and Stuska, Gotthard, 4,638,725, Cl. 92-237.000.
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Mahlein, Hans F.; Reichelt, Achim, and Winzer, Gerhard, to Siemens Aktiengesellschaft. Branch connector for light waveguides. 4,637,682, 1-20-87, Cl. 350-96.150.
Mahlein, Hans F.; Michel, Herbert; Reichelt, Achim; and Winzer, Gerhard, to Siemens Aktiengesellschaft. Optical waveguide junction and method of making said junction. 4,682,843, 7-28-87, Cl. 350-96.150.
Mahlein, Hans F.: *See*—
Amann, Markus-Christian; Mahlein, Hans F.; Stegmueller, Bernhard; Thulke, Wolfgang; Winzer, Gerhard; and Wolff, Ulrich, 4,656,636, Cl. 372-50.000.
Mahler, Gert: Dietz, Gunter, and Falkenroth, Heinz-Jurgen, to Gebr. Happich GmbH. Air duct, or the like, for instrument panel for automotive vehicles. 4,646,879, 3-3-87, Cl. 180-90.000.
Mahler, James A.; and Munie, Gregory C., to AT&T Technologies, Inc. Method and apparatus for achieving reduced component failure during soldering. 4,648,547, 3-10-87, Cl. 228-180.100.
Mahlich, Gotthard C.; and Maass, Rudolf, to Robert Krups Stiftung & Co. KG. Electric hair dryer with air dispersing hood. 4,658,511, 4-21-87, Cl. 34-97.000.
Mahlmann, James P.: *See*—
Erb, William W.; LaSalle, Ernest R.; and Mahlmann, James P., 4,655,400, Cl. 241-29.000.
Mahlo GmbH + Co. KG.: *See*—
Beckstein, Hellmut, 4,696,185, Cl. 73-37.700.
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Beckstein, Hellmut, 4,676,651, Cl. 356-429.000.
Mahmood, Qazi A. S. M., to American Microsystems, Inc. Programmable CMOS circuit for user defined chip enable and output enable. 4,644,504, 2-17-87, Cl. 365-230.000.
Mahmoud, Issa S., to International Business Machines Corporation. Materials for electrical contact. 4,636,251, 1-13-87, Cl. 75-246.000.
Mahmoud, Mohamed I., to Abbott Laboratories. Enteral nutritional hypoallergenic formula. 4,670,268, 6-2-87, Cl. 426-72.000.
Mahmud, Syed T., to Signetics Corporation. Ratioless FET programmable logic array. 4,636,661, 1-13-87, Cl. 307-468.000.
Mahnad, Ali R., to Jampro Antennas, Inc. Broadband cup antennas. 4,668,956, 5-26-87, Cl. 343-789.000.
Mahnke, Harald: *See*—
Woerner, Frank P.; Neumann, Peter; Mahnke, Harald; Lamprecht, Josef; Horn, Dieter; Turznik, Gerhard; Kraus, Friedrich; Kaeppel, Hanshelmut; and Heim, Eduard, 4,666,948, Cl. 521-105.000.
Mahnke, Parker E., to Marcy Gymnasium Equipment Co. Exercise apparatus. 4,678,185, 7-7-87, Cl. 272-134.000.
MAHO Aktiengesellschaft: *See*—
Babel, Werner, 4,687,088, Cl. 192-133.000.
Babel, Werner, 4,700,452, Cl. 29-568.000.
Babel, Werner, 4,704,056, Cl. 409-233.000.
Babel, Werner, 4,705,440, Cl. 409-233.000.
MAHO Werkzeugmaschinenbau Babel & Company: *See*—
Babel, Werner, 4,677,718, Cl. 29-33.00P.
Schwarz, Walter, 4,643,591, Cl. 384-44.000.
Schwarz, Walter, 4,662,762, Cl. 384-25.000.
Mahon, Joseph J., to Eaton Corporation. Microwave oven timer. 4,678,930, 7-7-87, Cl. 307-141.000.
Mahon, Robert M. Boat drain. 4,667,616, 5-26-87, Cl. 114-183.00R.
Mahon, Timothy P.: *See*—
Leiter, Gittle; and Mahon, Timothy P., 4,676,039, Cl. 52-282.000.
Mahoney, Brian J.; and Lynch, William M., to Kimberly-Clark Corporation. Apparatus and method for folding, bonding and severing a web. 4,650,530, 3-17-87, Cl. 156-73.100.
Mahoney, Elmo J., deceased; by Mahoney, Regina B., executrix; and Mahoney, Kenneth J. Break-away basketball goal apparatus. 4,676,503, 6-30-87, Cl. 273-1.50R.
Mahoney, George H.; Beckman, John H.; and Sheridan, Arthur L., to Viskase Corporation. Cored high density shirred casings. 4,688,298, 8-25-87, Cl. 17-49.000.
Mahoney, John A.: *See*—
Unmuth, Eugene E.; Mahoney, John A.; and Bertolacini, Ralph J., 4,636,299, Cl. 208-87.000.
Mahoney, Kenneth J.: *See*—
Mahoney, Elmo J., deceased; Mahoney, Regina B., executrix; and Mahoney, Kenneth J., 4,676,503, Cl. 273-1.50R.
Mahoney, Patrick F.: *See*—
Galgana, Russell J.; Sutin, Gordon L.; McNerney, Michael; and Mahoney, Patrick F., 4,669,397, Cl. 110-259.000.
Galgana, Russell J.; Mahoney, Patrick F.; and Sutin, Gordon L., 4,715,763, Cl. 414-216.000.
Mahoney, Regina B., executrix: *See*—
Mahoney, Elmo J., deceased; Mahoney, Regina B., executrix; and Mahoney, Kenneth J., 4,676,503, Cl. 273-1.50R.
Mahoney, Robert L., to LaBarge, Pierre L., Jr., a part interest. Apparatus and methods for removing underground cable. 4,685,831, 8-11-87, Cl. 405-156.000.
Mahoney, Thomas C., to Boeing Company, The. Apparatus for measuring dimensions of a slit. 4,663,858, 5-12-87, Cl. 33-542.000.
Mahoney, Thomas J.; and Lang, Michael, to Robot Defense Systems, Inc. Three-dimensional laser imaging transmitter/receiver. 4,698,498, 10-6-87, Cl. 250-234.000.
Mahooti, M. Ted, to Waterbury Cos., Inc. Apparatus, method and system for color measurement. 4,652,126, 3-24-87, Cl. 356-244.000.
Mahr, Josef, to Ford Motor Company. Cover for a motor vehicle spare wheel. 4,687,124, 8-18-87, Cl. 224-42.240.
Mahr, Lajos: *See*—
Czvikovszky, Tibor; Kovacs, Gabor; Lakner, Endre; Mahr, Lajos; Somogyi, Agnes; Mikes, Sandor; Kegly, Gyorgy; Muzsai, Istvan; Palotas, Laszlo; and Pfisztner, Nandor, 4,706,711, Cl. 138-103.000.
Mahr, Larry L. Variable weight support device. 4,676,502, 6-30-87, Cl. 272-119.000.
Mahr, Paul S.: *See*—
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Mahrla, Peter, to Siemens Aktiengesellschaft. Semiconductor element and method for producing the same. 4,686,557, 8-11-87, Cl. 357-34.000.
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Kirk, Glenn D., 4,642,748, Cl. 363-56.000.
Mai, Khuong H. X.; and Patil, Ghanshyam, to Du Pont de Nemours, E. I., and Company. Process for the preparation of 2-(1-hydroxyalkyl)-5,5-diphenylhydantoin. 4,709,042, 11-24-87, Cl. 548-312.000.
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Maidique, Modesto A.: *See*—
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Cornely, Wolfgang; Stein, Dietrich; Maidl, Bernhard; and Kubicki, Karl, 4,652,174, Cl. 405-146.000.
Maidlow, Delbert K., to Hydril Company. Stabbing protector with flex fitting inserts and method of attaching same in working position. 4,654,950, 4-7-87, Cl. 29-428.000.
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Sturm, Elmar; and Maienfisch, Peter, 4,696,922, Cl. 514-185.000.
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Maier, Alfred E.; Marks, Douglas C.; and Leone, David A., to Westinghouse Electric Corp. Circuit breaker with contact support and arc runner. 4,654,491, 3-31-87, Cl. 200-147.00R.
Maier, Alfred E., to Westinghouse Electric Corp. Circuit breaker with hinged arcing contact. 4,713,504, 12-15-87, Cl. 200-146.00R.
Maier, Alfred E.; Leone, David A.; and Ricci, Louis N., to Westinghouse Electric Corp. Stored energy circuit breaker with ratchet mechanism for charging a contact closing spring. 4,713,637, 12-15-87, Cl. 335-76.000.
Maier, Alfred E.: *See*—
Grunert, Kurt A.; and Maier, Alfred E., 4,683,451, Cl. 335-174.000.
Maier, Andreas, to Hartmetallwerkzeugfabrik Andreas Maier GmbH & Co. Multiple-tooth drill bit. 4,645,389, 2-24-87, Cl. 408-230.000.
Maier, Andreas, to Hartmetallwerkzeugfabrik Andreas Maier GmbH & Co. KG. Rotary cutting tool and process for making same. 4,679,971, 7-14-87, Cl. 408-145.000.
Maier, Bruce V. Dual purpose flyswatter. 4,674,227, 6-23-87, Cl. 43-137.000.
Maier, Craig P., to Hewlett-Packard Company. Transformer coupled pard bucker for DC power supplies. 4,657,279, 5-19-87, Cl. 363-46.000.
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Maier, Elmar: *See*—
Vollmer, Helmut; Kousek, Heinz; and Maier, Elmar, 4,681,493, Cl. 411-8.000.

Maier, Frank E.: *See*—
LaBarge, Robert L.; and Maier, Frank E., 4,678,096, Cl. 220-273.000.

Maier, Franz, to BBC Brown, Boveri & Company, Limited. Device for detecting a ground fault in the rotor winding of an electric machine. 4,667,262, 5-19-87, Cl. 361-42.000.

Maier, Georg, to Siemens Aktiengesellschaft. Mosaic board with enclosing frontal panel. 4,704,313, 11-3-87, Cl. 428-33.000.

Maier, Georg: *See*—
Assmann, Helmut; Dorr, Wolfgang; Maier, Georg; and Peehs, Martin, 4,655,978, Cl. 264-0.500.

Maier, Gerhard, to Deutsche Thomson-Brandt GmbH. Tuning of a resonant circuit in a communications receiver. 4,685,150, 8-4-87, Cl. 455-183.000.

Maier, Gerhard: *See*—
Geiger, Erich; and Maier, Gerhard, 4,689,825, Cl. 455-347.000.

Maier, Hans P.; and Vlaykowski, Nikolay, to Agintec AG. Clamping element. 4,667,988, 5-26-87, Cl. 285-340.000.

Maier, Hans-Peter: *See*—
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Maier, Helmut; Neumann, Bruno; and Schaafhausen, Ludwig R., to Eubelco GmbH. Connecting element for structural framework. 4,690,582, 9-1-87, Cl. 403-252.000.

Maier, Helmut K., to Henkel Corporation. Method of suspension polymerization of vinyl chloride. 4,645,812, 2-24-87, Cl. 526-200.000.

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Tuominen, Francis W.; Maier, Helmut K.; and Howland, Warren W., 4,695,453, Cl. 424-81.000.

Maier, Horst; and Schulz, Max, to Licentia Patent-Verwaltungs-GmbH; and Telefunken electronic GmbH. Method of integrating infrared sensitive image recording element with CCD on same substrate. 4,661,168, 4-28-87, Cl. 148-1.500.

Maier, Jakob: *See*—
Hoefelmayr, Tilman; and Maier, Jakob, 4,649,863, Cl. 119-14.320.

Maier, Johann, to Schleicher Maschinenbau und -Vertrieb GmbH. Dowel hole drilling machine. 4,639,171, 1-27-87, Cl. 408-89.000.

Maier, Kurt. Gear grinding machine for radial or helical spur gears. 4,638,599, 1-27-87, Cl. 51-52.00R.

Maier-Laxhuber, Peter; and Kaubek, Fritz. Continuously acting adsorption devices and process for their operation. 4,660,629, 4-28-87, Cl. 165-104.120.

Maier-Laxhuber, Peter; and Kaubek, Fritz. Zeolite blanks with a high heat conductivity and process for making the same. 4,674,563, 6-23-87, Cl. 165-104.120.

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Maier, Ludwig; Meyer, Willy; Oertle, Konrad; Roloff, Achim; and Topfl, Werner, to Ciba-Geigy Corporation. Phosphorous-containing phenylsulfonamides. 4,677,217, 6-30-87, Cl. 558-190.000.

Maier, Ludwig: *See*—
Diel, Peter J.; and Maier, Ludwig, 4,640,701, Cl. 71-86.000.

Maier, Peter; Hansel, Gernot; Henzler, Rolf; Walter, Hartmut; and Arnold, Gunter. Compass saw for cutting workpieces of wood, plastics and metal. 4,665,617, 5-19-87, Cl. 30-374.000.

Maier, Peter; and Hansel, Gernot. Guide arrangement for a portable power saw. 4,677,750, 7-7-87, Cl. 30-376.000.

Maier, Peter: *See*—
Reuter, Horst; Quast, Jorn-Rainer; Maier, Peter; and Brenner, Heinrich, 4,697,793, Cl. 267-195.000.

Maier, Robert M.: *See*—
Venkatesh, Venkatramiah; and Maier, Robert M., 4,661,953, Cl. 371-16.000.

Maier, Stephan: *See*—
Knott, Valentin; Huber, Hans; Langheinrich, Wolfgang; and Maier, Stephan, 4,645,040, Cl. 188-79.5GT.

Maier, Walter: *See*—
Schreiber, Reinhold; Ostle, Arnold-William; Maier, Walter; and Loebert, Heinz, 4,663,210, Cl. 428-160.000.

Maier, Wilfried: *See*—
Zitz, Alfred; and Maier, Wilfried, 4,696,518, Cl. 299-75.000.

Maiese, William M.: *See*—
Carter, Guy T.; Greenstein, Michael; Goodman, Joseph J.; Borders, Donald B.; Maiese, William M.; and Testa, Raymond T., 4,705,688, Cl. 424-122.000.
Kirby, Jane P.; Borders, Donald B.; Lee, May D.; Maiese, William M.; Testa, Raymond T.; and Labeda, David P., 4,699,790, Cl. 424-117.000.

Maige, Philippe: *See*—
de Sartre, Jean; and Maige, Philippe, 4,692,853, Cl. 363-49.000.

Maignan, Jean: *See*—
Shroot, Braham; Lang, Gerard; Maignan, Jean; and Colin, Michel, 4,654,354, Cl. 514-372.000.
Shroot, Braham; Lang, Gerard; and Maignan, Jean, 4,677,123, Cl. 514-680.000.
Shroot, Braham; Lang, Gerard; and Maignan, Jean, 4,696,941, Cl. 514-423.000.
Shroot, Braham; and Maignan, Jean, 4,708,959, Cl. 514-373.000.

Mail, Jacob A., to Boeing Company, The. Aircraft wheel brake metering and despin valve. 4,714,298, 12-22-87, Cl. 303-100.000.

Mailander, Horst: *See*—
Nagl, Michael; Fugger, Gerhard; Mraz, Jaroslav; Mailander, Horst; Rottenmanner, Ernst; Rauber, Norbert; and Luger, Wolfgang, 4,708,643, Cl. 432-95.000.

Maile, Donald W.; and Kell, Furman D., to RCA Corporation. Infrared radiation bi-level electric control. 4,647,788, 3-3-87, Cl. 307-117.000.

Maile, Donald W., to RCA Corporation. Electrical control having automatic mode selection. 4,650,986, 3-17-87, Cl. 250-214.0SW.

Maile, Donald W., to RCA Corporation. Infrared radiation controlled switch with a visible light detector. 4,663,521, 5-5-87, Cl. 250-221.000.

Maile, Graham K.: *See*—
Vanstone, Anthony E.; Maile, Graham K.; and Nalbantoglu, Lynn K., 4,656,305, Cl. 560-54.000.

Maillard, Jacques G.; Van, Tri V.; Legeai, Jacky M.; and Benharkate, Marguerite M., to Laboratoires Jacques Logeais. 2-imino-pyrrolidines, process for their preparation, and therapeutic compositions containing same. 4,699,918, 10-13-87, Cl. 514-426.000.

Maillard, Philippe: *See*—
Martin, Alain; and Maillard, Philippe, 4,682,725, Cl. 228-119.000.

Maillefer, James. Foam plastic flower pot. 4,667,439, 5-26-87, Cl. 47-66.000.

Maillet, Alain. Electrothermal process and plant for the separation and refining of metal from waste. 4,675,048, 6-23-87, Cl. 75-10.140.

Mailloux, Louis D.; and Waldron, Brian L., to Xerox Corporation. Pulse width modulation greyscale system for halftone printer. 4,661,859, 4-28-87, Cl. 358-283.000.

Maimann, Mogens; and Svendsen, Bent, to 2 M Security Systems APS. Theft protection system particularly for shop areas. 4,635,041, 1-6-87, Cl. 340-572.000.

Main, Alan J.: *See*—
von Sprecher, Andreas; Ernest, Ivan; Main, Alan J.; and Beck, Andreas, 4,649,215, Cl. 560-152.000.

Main, Brian G., to Imperial Chemical Industries PLC. 1,3-dioxan-4-ylalkenoic acids. 4,704,399, 11-3-87, Cl. 514-452.000.

Main, Brian G.: *See*—
Brown, David; Dowell, Robert I.; Hargreaves, Rodney B.; and Main, Brian G., 4,683,232, Cl. 514-228.000.

Main, W. Eric, to Motorola, Inc. Balanced differential load and method. 4,644,295, 2-17-87, Cl. 330-301.000.

Main, W. Eric: *See*—
Lunn, Gerald K.; Main, W. Eric; and McGinn, Michael, 4,638,265, Cl. 333-214.000.

Main, William E., to Motorola, Inc. Current limiter and method for limiting current. 4,709,171, 11-24-87, Cl. 307-567.000.

Maina, Bruno: *See*—
Ghiardo, Fiorenzo; and Maina, Bruno, 4,638,840, Cl. 139-452.000.

Maincent, Gabriel: *See*—
Rosier, Jean-Claude; Fouche, Claude; and Maincent, Gabriel, 4,638,370, Cl. 358-293.000.

Maine, Stephen; Harrower, Duncan; and Mammen, Abraham, to Computer Graphics Laboratories, Inc. Graphics display system. 4,700,181, 10-13-87, Cl. 340-747.000.

Maine Wild Blueberry Co.: *See*—
Ismail, Amr A., 4,713,252, Cl. 426-290.000.

Mainelli, Roy J.; and Preston, Donald, to United Technologies Corporation. Fluid flow regulator. 4,715,395, 12-29-87, Cl. 138-42.000.

Mainemer, Carlos I.: *See*—
Wang, An; Ho, Shu-Kuang; and Mainemer, Carlos I., 4,638,118, Cl. 178-18.000.

Maines, Robert, to R. J. Harvey Instrument Corporation. Nylon strips for medical assay. 4,710,458, 12-1-87, Cl. 435-12.000.

Mainhardt, Robert. Gun for firing a variety of projectiles. 4,644,930, 2-24-87, Cl. 124-58.000.

Mainland, Donald R., to Kolar Arms. Choke assemblies for shotguns. 4,713,903, 12-22-87, Cl. 42-79.000.

Mains, Donald M.: *See*—
Jasinski, Richard A.; and Mains, Donald M., 4,679,489, Cl. 91-36.000.

Mainstay, Inc.: *See*—
Peterson, Luetta M., 4,637,344, Cl. 119-52.00R.

Mainville, Jack. Welding jig apparatus. 4,682,765, 7-28-87, Cl. 269-41.000.

Mainville, Jack. Welding apparatus for simultaneously applying parallel welds to workpieces. 4,709,133, 11-24-87, Cl. 219-125.100.

Mainz, Klaus: *See*—
Ehemann, Gero; and Mainz, Klaus, 4,700,975, Cl. 280-824.000.

Mainz & Mauersberger Alu-System GmbH: *See*—
Mauersberger, Winfrid; and Mauersberger, Karl H., 4,651,960, Cl. 248-292.100.

Mair, Alexander C.; Allgaier, Leonhard; and DeHart, Arnold O., to General Motors Corporation. Line boring apparatus. 4,693,642, 9-15-87, Cl. 408-59.000.

Mair, Alexander D., to Tennessee Valley Authority. Thermal treatment of phosphate rock. 4,702,896, 10-27-87, Cl. 423-167.000.

Mair, Gunther: *See*—
Ritter, Klaus; Michaelsen, Klaus; and Mair, Gunther, 4,681,328, Cl. 277-80.000.

Mair, Steven M.; and Durham, Clyde S., to Mark IV Industries, Inc. Low profile pump jack. 4,686,862, 8-18-87, Cl. 74-44.000.

Maire, Christian: *See*—
Lorenzelli, Robert; Dabernard, Pierre; and Maire, Christian, 4,643,328, Cl. 220-256.000.

Maire, Robert, to Frederic Piguet S.A. Electronic timepiece with analogue display. 4,666,311, 5-19-87, Cl. 368-80.000.

Mairot, Guy, to S.c.a.i.m.e. Instrument for measuring and recording forces. 4,694,922, 9-22-87, Cl. 177-178.000.

Mairs, Candyce. Combination bassinet, baby carrier and diaper bag. 4,698,862, 10-13-87, Cl. 5-98.00R.

Mais, Dale: *See*—
Eller, Thomas D.; Halushka, Perry V.; Knapp, Daniel R.; and Mais, Dale, 4,695,647, Cl. 560-53.000.

Maisch, Dieter, to Herion-Werke KG. Shuttle piston cylinder. 4,714,007, 12-22-87, Cl. 92-88.000.

Maisch, Wolfgang; and Treiber, Jurgen, to Robert Bosch GmbH. Electric potentiometer. 4,642,602, 2-10-87, Cl. 338-162.000.

Maisch, Wolfgang, to Robert Bosch GmbH. Apparatus for controlling recirculated quantities of exhaust gas in internal combustion engines. 4,671,246, 6-9-87, Cl. 123-571.000.

Maisch, Wolfgang, to Robert Bosch GmbH. Electric potentiometer. 4,694,272, 9-15-87, Cl. 338-138.000.

Maisch, Wolfgang: *See*—
Arnold, Herbert; Bosch, Walter; Horbelt, Michael; Maisch, Wolfgang; Nusser, Hermann; Peters, Klaus-Jurgen; Werner, Peter; and Willke, Clemens, 4,693,111, Cl. 73-118.100.
Gmelin, Karl; Kubach, Hans; Maisch, Wolfgang; Peters, Klaus-Jurgen; and Schelhas, Peter, 4,648,368, Cl. 123-454.000.

Maisonneuve, Michel. Eggshell cracking device. 4,665,813, 5-19-87, Cl. 99-571.000.

Maistore S.p.A.: *See*—
Citterio, Paolo, 4,702,426, Cl. 241-167.000.

Maistrovich, Anthony R: *See*—
Engler, David A.; and Maistrovich, Anthony R., 4,695,608, Cl. 525-308.000.

Maitland, Arthur; Menown, Hugh; Strudwick, Ian A.; Weatherup, Clifford R.; and Carman, Robert J., to English Electric Valve Company Limited. Apparatus for forming electron beams. 4,698,546, 10-6-87, Cl. 313-446.000.

Maitland, Peter: *See*—
Tan, Patrick; Maitland, Peter; Kawczynski, Gregory; and Camposeo, Paul V., 4,648,783, Cl. 414-730.000.

Maitland, Ronald I. Dental wedge and method of using same. 4,696,646, 9-29-87, Cl. 433-149.000.

Maitre, Pierre: *See*—
Besson, Raymond; Delaite, Richard; Genestier, Gerard; Maitre, Pierre; Renard, Georges; Thiebaud, Daniel; and Valentin, Jean-Pascal, 4,705,982, Cl. 310-356.000.

Maiwald, Berthold: *See*—
Heitmann, Uwe; Pinck, Peter; and Maiwald, Berthold, 4,644,176, Cl. 250-572.000.
Heitmann, Uwe; Pinck, Peter; Kohler, Elke; Maiwald, Berthold; and Marsau, Uwe, 4,645,921, Cl. 250-223.00R.

Maiwald, Dietrich G.: *See*—
Chevillat, Pierre R.; Maiwald, Dietrich G.; and Ungerboeck, Gottfried, 4,674,103, Cl. 375-13.000.

Maixner, Uwe; and Milferstaedt, Dieter, to Gesellschaft fuer Kernenerg Ieverwertung in Schiffbau und Schiffahat GmbH. Electrical contact. 4,641,002, 2-3-87, Cl. 200-268.000.

Maizlish, Bernard L.; Cardiges, Stanley J.; and Hayes, Charles D. Stackable, portable filing cabinet modules. 4,668,029, 5-26-87, Cl. 312-250.000.

Majcher, John P.: *See*—
McKee, Jere L.; Majcher, John P.; Smith, William E.; and Schlosser, Donald E., 4,644,121, Cl. 200-153.00G.

Majchrzak, Roland: *See*—
Ebert, Charles; Delcroix, Jean L.; Majchrzak, Roland; and Viertel, Lothar, 4,702,513, Cl. 296-97.00H.

Majda, John: *See*—
Royston, Ivor; Majda, John; and Yamamoto, Gayle, 4,675,386, Cl. 530-387.000.

Majer, Rocco, to Fertimont S.p.A. Process for granulating chemical products and apparatus therefor. 4,686,115, 8-11-87, Cl. 427-212.000.

Majerle, John: *See*—
Lane, Darryl; Barr, B. G.; Dutton, Mike; Frain, Mike; Frechette, Simon; Hummel, Keith; Majerle, John; Majerle, Joseph; Rogers, Steve; Unger, Mark; and Umholtz, Robert, 4,664,366, Cl. 269-303.000.

Majerle, Joseph: *See*—
Lane, Darryl; Barr, B. G.; Dutton, Mike; Frain, Mike; Frechette, Simon; Hummel, Keith; Majerle, John; Majerle, Joseph; Rogers, Steve; Unger, Mark; and Umholtz, Robert, 4,664,366, Cl. 269-303.000.

Majerus, Howard J. Safety hold-down bar system. 4,681,344, 7-21-87, Cl. 280-751.000.

Majerus, Norbert: *See*—
Greenwood, Alan; and Majerus, Norbert, 4,715,577, Cl. 249-107.000.

Majestic Industries, Inc.: *See*—
Geiger, John A., 4,697,945, Cl. 402-75.000.

Majewski, Donna M.; and Morganson, Stephen A., to Economics Laboratory, Inc. Treatment of fabrics in machine dryers using treating means containing fabric treating composition having resistance to change in viscosity and release rate with temperature change. 4,642,258, 2-10-87, Cl. 428-68.000.

Majewski, Joseph R., to Pillar Corporation. Corona discharge electrode assembly. 4,636,640, 1-13-87, Cl. 250-324.000.

Majewski, Klaus-Peter: *See*—
Baasner, Ernst; Lonne, Klaus; and Majewski, Klaus-Peter, 4,659,091, Cl. 277-1.000.
Bechen, Heribert; Giesen, Franz-Josef; Lonne, Klaus; and Majewski, Klaus-Peter, 4,656,085, Cl. 428-290.000.
Zerfass, Hans-Rainer; Majewski, Klaus-Peter; and Giesen, Franz-Josef, 4,635,948, Cl. 277-235.00B.

Majima, Eiji: *See*—
Yokozeki, Kenzo; Majima, Eiji; Hirose, Yoshiteru; Sato, Takeru; and Yukawa, Toshihide, 4,666,838, Cl. 435-70.000.

Majima, Hidekazu; and Kamio, Takenori, to Kabushiki Kaisha Daikin Seisakusho. Friction clutch operated by a fluid pressure. 4,664,240, 5-12-87, Cl. 192-85.0CA.

Majima, Hidekazu: *See*—
Takeuchi, Hiroshi; Majima, Hidekazu; and Fukushima, Hirotaka, 4,646,892, Cl. 192-70.270.

Majima, Toshiaki: *See*—
Kan, Fumitaka; Hayakawa, Naoji; Majima, Toshiaki; Takenouchi, Masanori; Yamamoto, Mitsuru; Suzuki, Hidetoshi; and Nomura, Ichiro, 4,675,699, Cl. 346-76.00R.

Majka, Christopher J.: *See*—
Frushour, James E.; Mahar, Michael L.; Majka, Christopher J.; and Swenson, John E., 4,644,237, Cl. 318-313.000.

Majka, Edward H.: *See*—
Abraham, William W.; and Majka, Edward H., 4,669,458, Cl. 128-133.000.

Majkowski, Richard F.: *See*—
Shu-Ti Lee, Peter; Majkowski, Richard F.; and Partin, Dale L., 4,684,805, Cl. 250-343.000.

Majkrzak, David S., to Crary Company. Mower assembly. 4,651,511, 3-24-87, Cl. 56-310.000.

Majnarich, John J.: *See*—
Livingston-Wheeler, Virginia; and Majnarich, John J., 4,643,970, Cl. 435-68.000.

Majoch, Tim R.: *See*—
Auth, David C.; Lawrence, Dale M.; and Majoch, Tim R., 4,691,703, Cl. 128-303.100.

Majoie, Bernard; Bellamy, Francois; Dodey, Pierre; and Robin, Jacques, to Societe de Recherches Industrielles. Benzoyl-phenyl piperidine derivatives. 4,680,402, 7-14-87, Cl. 546-235.000.

Major, Eugene O., to United States of America, Health and Human Services. Immortal line of human fetal glial cells. 4,707,448, 11-17-87, Cl. 435-240.250.

Majors, Anthony P. Refuse receptacle for receiving disposable refuse bags. 4,697,771, 10-6-87, Cl. 248-97.000.

Majthan, Rudolf, to Braun Aktiengesellschaft. Domestic container with handle attached by gluing. 4,683,155, 7-28-87, Cl. 428-35.000.

Majumdar, Gourab; and Mori, Satoshi, to Mitsubishi Denki Kabushiki Kaisha. High frequency diverse semiconductor switch. 4,672,247, 6-9-87, Cl. 307-570.000.

Mak, King C.: *See*—
Hui, Kenneth H.; Mak, King C.; and Hardesty, David G., 4,660,170, Cl. 364-900.000.

Mak, Stoe T., to Emerson Electric Co. Method and apparatus for providing selectively variable modulation signal for a carrier wave, 4,658,238, 4-14-87, Cl. 340-310.00R.

Mak, Tak W., to Ontario Cancer Institute, The. T cell specific CDNA clone. 4,713,332, 12-15-87, Cl. 435-70.000.

Makabe, Eiichi; Harada, Naoki; Imai, Kiyotaka; Hosoda, Yoshiro; and Kato, Akira, to Nippon Kokan Kabushiki Kaisha. Temperature data producing apparatus for high temperature moving objects. 4,643,581, 2-17-87, Cl. 374-104.000.

Makabe, Eiichi; Uesugi, Mitsuaki; Inomata, Masaichi; Maruyama, Kyusuke; Iwai, Kenji; and Sano, Kazuo, to Nippon Kokan Kabushiki Kaisha. Fatigue crack position detection apparatus. 4,716,4, 12-29-87, Cl. 358-106.000.

Makabe, Kazunori; and Nakamura, Yoshiyuki, to Taga Electric Co., Ltd. Method of perforating a texture to be sewn. 4,671,149, 6-9-87, 83-30.000.

Makal, John: *See*—
Schoenwetter, Randall R.; Makal, John; and Sankey, Edward, 4,715,104, Cl. 29-271.000.

Makara, Gabor: *See*—
Nyeki nee Kuprina, Olga; Kisfaludy, Lajos; Szeberenyi nee Szabo, Katalin; Makara, Gabor; Varga, Bertalan; Karpati, Egon; Szporny, Laszlo , 4,672,054, Cl. 514-16.000.

Makari, Jack G. Immunization. 4,705,677, 11-10-87, Cl. 424-1.100.

Makarov, Vladimir A.: *See*—
Bezuglov, Vladimir V.; Bergelson, Lev D.; Lakin, Kapiton F.; Makarov, Vladimir A.; Kovalev, Sergei G.; and Freimanis, Y., 4,665,214, Cl. 560-121.000.

Makarova, Evgenia S.: *See*—
Ovchinnikov, Alexandr A.; Dudin, Vladimir P.; Konov, Vyacheslav V.; Khlybov, Vyacheslav I.; Rapoport, Jury M.; Gorbunov, Boris N.; Makarova, Evgenia S.; Davituliani, Valentin V.; Zaitseva, Svetlana I., 4,642,354, Cl. 548-473.000.

Makarova, Inna I.: *See*—
Vinogradov, Alexei V.; Makarova, Inna I.; Alexandrov, Jury; Gaiaktionov, Viktor A.; and Ozersky, Jury P., 4,651,748, 128-680.000.

Makaryk, Walter A.; Dudar, Thomas E.; and Zentz, Mary K., to Bio-Travenol Laboratories, Inc. Injection site package. 4,698, 10-6-87, Cl. 604-408.000.

Makashima, Norihiko, to Kao Corporation. Textile processing and treatment of textile with the same. 4,689,159, 8-25-87, 252-8.600.

Makela, Markku, to Velsa Oy. Drive bogie for a crawler vehicle, crawler mat for use therewith. 4,708,218, 11-24-87, Cl. 180-9.56

Makela, Pirjo H.; Leinonen, Maija K.; Nurminen-Kalliokoski, Ma H.; and Saikku, Pekka A. I., to Orion Corporation, Ltd. Diagn

chlamydia infections with Re-lipopolysaccharide complexed to carrier or antibody thereto. 4,652,518, 3-24-87, Cl. 435-7.000.
Makela, Pirjo H.: *See*—
Nurmi, Esko V.; Schneitz, Jarita E.; and Makela, Pirjo H., 4,689,226, Cl. 424-93.000.
Makepeace, Andrew P., to International Paint public limited company. Marine anti-fouling paint. 4,654,380, 3-31-87, Cl. 523-122.000.
Makepeace, Richard J.: *See*—
Gabe, Julian; and Makepeace, Richard J., 4,640,705, Cl. 71-93.000.
Maker, Lewis W.; and Nicholson, Horace, to United States Supply Company. Shipping container for packaging endless belts for transportation or storage. 4,678,084, 7-7-87, Cl. 206-597.000.
Makhlouf, Joseph M.; Falk, Frederick A.; and Piccirilli, Robert M., to PPG Industries, Inc. Phenolic-modified rosin esters. 4,639,492, 1-27-87, Cl. 525-54.420.
Makhlouf, Joseph M.: *See*—
Piccirilli, Robert M.; Christenson, Roger M.; Falk, Frederick A.; and Makhlouf, Joseph M., 4,693,846, Cl. 260-97.000.
Makhlouf, Makhlouf M.; and Schuster, Thomas R., to Dresser Industries, Inc. Composition and method for forming an abrasive article. 4,652,277, 3-24-87, Cl. 51-309.000.
Makhteshim Chemical Works Ltd.: *See*—
Oren, Zohar, 4,683,322, Cl. 558-3.000.
Maki, Fumio: *See*—
Sato, Akira; and Maki, Fumio, 4,681,026, Cl. 98-115.200.
Maki, Hideo: *See*—
Inagaki, Masahisa; Jinbo, Ryutaro; Kuniya, Keiichi; Masaoka, Isao; and Maki, Hideo, 4,664,727, Cl. 148-407.000.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,678,521, Cl. 148-11.50F.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,689,091, Cl. 148-11.50F.
Maki, Hirohisa; and Matsuo, Katsuaki, to Dai-Ichi Kogyo Seiyaku Co., Ltd. Protective coating on concrete construction. 4,680,203, 7-14-87, Cl. 427-393.600.
Maki, Kenichiro: *See*—
Nagato, Nobuyuki; Mori, Hideki; Maki, Kenichiro; and Ishioka, Ryoji, 4,634,784, Cl. 549-521.000.
Maki, Kunio: *See*—
Hirao, Sumio; and Maki, Kunio, 4,659,245, Cl. 403-30.000.
Maki, Masami: *See*—
Kawai, Yoichi; Abe, Masaru; Maki, Masami; Suzuki, Koutarou; and Hoshino, Minoru, 4,663,369, Cl. 523-203.000.
Maki, Michiyoshi: *See*—
Saiki, Atsushi; Suzuki, Michio; Sunami, Hideo; Asai, Shojiro; Maki, Michiyoshi; and Asami, Kinichiro, 4,693,173, Cl. 98-31.500.
Maki, Nagatoshi. Wad for shotgun shotshell. 4,669,385, 6-2-87, Cl. 102-453.000.
Maki, Nagatoshi. Slug assembly for shotgun shotshell. 4,676,169, 6-30-87, Cl. 102-439.000.
Maki, Paul A., to General Electric Company. Crucible for use in molecular beam epitaxial processing. 4,646,680, 3-3-87, Cl. 118-726.000.
Maki, Shin-ichi: *See*—
Matsuda, Kiichi; Tsuda, Toshitaka; Homma, Toshihiro; Fukuda, Hiroshi; Okazaki, Takeshi; and Maki, Shin-ichi, 4,668,987, Cl. 358-136.000.
Maki, Takao; Murayama, Kenji; and Asahi, Yoshio, to Mitsubishi Chemical Industries Limited. Process for producing oxocarboxylic acids. 4,649,217, 3-10-87, Cl. 562-528.000.
Maki, Theodore R.: *See*—
Anderson, Robert H.; Ross, William E.; and Maki, Theodore R., 4,661,809, Cl. 340-783.000.
Maki, Voldi E., Jr., to Gearhart Industries, Inc. Method and apparatus for acoustically investigating a borehole casing cement bond. 4,709,357, 11-24-87, Cl. 367-35.000.
Maki, Yohji; and Umezawa, Norio, to Matsushita Electric Industrial Co., Ltd. Attachment structure for brush holder springs. 4,638,203, 1-20-87, Cl. 310.239.000.
Maki, Yoshitaka: *See*—
Nohara, Akira; and Maki, Yoshitaka, 4,672,073, Cl. 514-381.000.
Nohara, Akira; and Maki, Yoshitaka, 4,689,333, Cl. 514-338.000.
Nohara, Akira; and Maki, Yoshitaka, 4,714,774, Cl. 560-053.000.
Makibayashi, Katsunori; Murase, Kenji; and Kunihiro, Motoo, to Toyo Tire & Rubber Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Vibration preventing device. 4,706,947, 11-17-87, Cl. 267-140.100.
Makibayashi, Katsunori: *See*—
Mishima, Yasuhiro; Makibayashi, Katsunori; and Kuwayama, Kiyoaki, 4,637,595, Cl. 267-52.000.
Makida, Kazuhisa: *See*—
Asano, Hideo; Makida, Kazuhisa; and Fujiwara, Kenichi, 4,696,627, Cl. 418-15.000.
Fujiwara, Kenichi; Asano, Hideo; Hasada, Eiichi; Makida, Kazuhisa; and Iida, Akinori, 4,637,222, Cl. 62-244.000.
Makiej, Paul A. Particle catcher for inhalation devices. 4,706,663, 11-17-87, Cl. 128-200.180.
Makiel, Joseph M., to Westinghouse Electric Corp. Fuel cell generator containing a gas sealing means. 4,640,875, 2-3-87, Cl. 429-30.000.
Makiguchi, Kyoko; Sagusa, Hisayuki; and Nomura, Yasushi, to Hitachi, Ltd. Automated analyzing apparatus. 4,684,252, 8-4-87, Cl. 356-328.000.
Makihara, Hiroshi: *See*—
Asaeda, Masashi; Mori, Kazutaka; and Makihara, Hiroshi, 4,692,354, Cl. 427-244.000.
Niwa, Kensuke; Fujita, Hisayoshi; Saito, Yoshihiko; Makihara, Hiroshi; Hashimoto, Ritsuo; Hoshi, Younosuke; and Murayama, Katsutoshi, 4,705,654, Cl. 261-128.000.
Makihara, Katsumi; Yanagi, Kenichi; Fukushima, Takeo; Suganuma, Namio; Samejima, Ichiro; and Takahashi, Seiichi, to Mitsubishi Jukogyo Kabushiki Kaisha; and Kawasaki Steel Corporation. Cooling apparatus for metal strip. 4,638,851, 1-27-87, Cl. 165-32.000.
Makihara, Katsumi: *See*—
Yanagi, Kenichi; Makihara, Katsumi; Fukushima, Takeo; Hashimoto, Osamu; and Iida, Sachihiro, 4,644,667, Cl. 34-54.000.
Makimoto, Mitsuo: *See*—
Sagawa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, 4,638,180, Cl. 307-219.100.
Sagawa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, 4,679,003, Cl. 331-1.00A.
Makimoto, Toshio; Nishimura, Sadahiko; Matsuo, Masayuki; Abiko, Toshio; Ishizaki, Hirohumi; Kanda, Minoru; Nunoya, Hidetsugu; and Komatsu, Mikio, to Makimoto, Toshio; Nishimura, Sadahiko; and Matsushita Electric Works, Ltd. Planar microwave antenna having high antenna gain. 4,713,670, 12-15-87, Cl. 343-700.0MS.
Makimura, Masaru; and Yamashita, Setsuo, to Kuraray Co., Ltd. Fabric comprising composite sheath-core fibers, fabric comprising bicomponent fiber bundles and process for its preparation. 4,663,221, 5-5-87, Cl. 428-224.000.
Makimura, Osamu: *See*—
Kobayashi, Takuma; Kitagawa, Hironobu; Kaneshige, Noritsugu; and Makimura, Osamu, 4,680,345, Cl. 525-437.000.
Kuze, Katsuaki; Nishino, Yasuhiro; Matsuyama, Yujiro; Maeda, Kozo; Kobayashi, Masahiro; Okudaira, Tadashi; Hongo, Tsuyoshi; and Makimura, Osamu, 4,693,932, Cl. 428-323.000.
Makin, Brian: *See*—
Binns, Ian D.; and Makin, Brian, 4,704,297, Cl. 427-9.000.
Makin, Ronald P., to BOC Group plc, The. Inhalation apparatus. 4,686,354, 8-11-87, Cl. 219-301.000.
Makinen, Heimo; and Kahkipuro, Matti, to Elevator GmbH. Elevator motor control. 4,672,277, 6-9-87, Cl. 318-380.000.
Makinen, Juho K.; Peuralinna, Mauri J.; and Aaltonen, Olavi A., to Outokumpu Oy. Process for chlorinating volatilization of metals which are present in oxidic iron ores or concentrates. 4,642,133, 2-10-87, Cl. 75-2.000.
Makinen, Matti. Assembly system. 4,703,558, 11-3-87, Cl. 29-784.000.
Makinen, Ralph W.; and Rickloff, James R., to American Sterilizer Company. Process for the continuous preparation of sterile, depyrogenated solutions. 4,648,978, 3-10-87, Cl. 210-759.000.
Makino, Daisuke; Sato, Hidetaka; Suzuki, Hiroshi; Uchimura, Shunichiro; and Suzuki, Hiroshi, to Hitachi Chemical Company, Ltd. Composition for protective coating material. 4,645,688, 2-24-87, Cl. 427-82.000.
Makino, Daisuke: *See*—
Koibuchi, Shigeru; Isobe, Asao; and Makino, Daisuke, 4,698,291, Cl. 430-196.000.
Makino, Hiroshi; and Sasaki, Akio, to Mikuni Kogyo Kabushiki Kaisha. EGR valve device of internal combustion engines of automobiles. 4,690,119, 9-1-87, Cl. 123-571.000.
Makino, Hiroshi; and Nakatani, Masayuki, to Ube Industries, Ltd. Gas separating material. 4,690,873, 9-1-87, Cl. 428-473.500.
Makino, Hiroshi; Yoshino, Tsunemi; Kihara, Tadaharu; and Takashima, Akira, to West Electric Company, Ltd. Automatic focusing apparatus. 4,695,893, 9-22-87, Cl. 358-227.000.
Makino, Hiroshi: *See*—
Onoyama, Takashi; and Makino, Hiroshi, 4,647,511, Cl. 428-599.000.
Onoyama, Takashi; and Makino, Hiroshi, 4,705,656, Cl. 264-8.000.
Makino, Hisao; and Makino, Masahiko, to Kaiyo Kogyo Kabushiki Kaisha. Water aeration apparatus. 4,702,830, 10-27-87, Cl. 210-220.000.
Makino, Katsuaki: *See*—
Oyamoto, Toshiya; Makino, Katsuaki; and Ogawara, Fumio, 4,702,818, Cl. 208-81.000.
Makino, Katsumi, to Mitsubishi Denki Kabushiki Kaisha. Lighting device for an elevator. 4,704,662, 11-3-87, Cl. 362-147.000.
Makino, Katsumi, to Mitsubishi Denki Kabushiki Kaisha. Lighting device for an elevator. 4,709,308, 11-24-87, Cl. 362-148.000.
Makino, Katsumi: *See*—
Ohta, Kazutoshi; Takemoto, Kenichi; and Makino, Katsumi, 4,666,743, Cl. 427-265.000.
Makino, Kazuhiro; and Numata, Shigeo, to Hitachi, Ltd. Excessive load prevention apparatus employable for a hoist or the like. 4,671,494, 6-9-87, Cl. 254-277.000.
Makino, Kenzi; Akiyama, Shigeaki; Fukuda, Kenzow; and Sakata, Gozyo, to Nissan Chemical Industries Ltd. Process for preparing 2-(4-hydroxyphenoxy) alkanoic acid compounds. 4,665,212, 5-12-87, Cl. 560-61.000.
Makino, Masahiko: *See*—
Makino, Hisao; and Makino, Masahiko, 4,702,830, Cl. 210-220.000.
Makino, Masahiro: *See*—
Sasaki, Shin; and Makino, Masahiro, 4,663,688, Cl. 360-132.000.
Makino, Masashi; Nakada, Kunio; Muragishi, Isao; and Nishitani, Syozi, to Matsushita Electric Industrial Co., Ltd. Edge rounding machine. 4,635,403, 1-13-87, Cl. 51-94.00R.
Makino, Masashi; Nakada, Kunio; Muragishi, Isao; and Nishitani, Syozi, to Matsushita Electric Industrial Co., Ltd. Edge-rounding method and apparatus therefor. 4,651,471, 3-24-87, Cl. 51-3.000.
Makino, Masayuki, to NEC Corporation. Cordless Telephone system. 4,682,351, 7-21-87, Cl. 379-62.000.

Makino, Masayuki, to NEC Corporation. Line switching circuit for cordless telephone. 4,691,338, 9-1-87, Cl. 379-61.000.
Makino, Masayuki: *See*—
Yotsutani, Akio; Makino, Masayuki; Saegusa, Noboru; and Sone, Tomoshi, 4,640,986, Cl. 379-60.000.
Makino, Nobuhiko: *See*—
Nakashima, Noriyuki; Wakao, Teruyoshi; Tamura, Kimio; and Makino, Nobuhiko, 4,664,409, Cl. 280-707.000.
Makino, Osamu: *See*—
Nakatani, Seiichi; Yuhaku, Satoru; Okinaka, Hideyuki; Ishida, Toru; Makino, Osamu; and Kikuchi, Tatsuro, 4,714,570, Cl. 252-518.000.
Watanabe, Hirotoshi; Makino, Osamu; and Ishida, Toru, 4,695,504, Cl. 428-209.000.
Makino, Reiji: *See*—
Horiki, Seinosuke; Makino, Reiji; Ito, Kuninori; and Unno, Tetsuji, 4,714,633, Cl. 427-282.000.
Makino, Shigeo: *See*—
Tsukagoshi, Tetsuhito; Matsunuma, Tamotsu; and Makino, Shigeo, 4,696,335, Cl. 152-535.000.
Makino, Shoji; Matsui, Michikage; and Hiratsuka, Shozaburo, to Teijin Limited. Wholly aromatic polyamide fiber. 4,670,343, 6-2-87, Cl. 428-395.000.
Makino, Tadashi: *See*—
Kihara, Kazuhiko; Tsunekane, Kinichiro; Shidara, Hajime; and Makino, Tadashi, 4,653,674, Cl. 222-342.000.
Makino, Takamoto: *See*—
Motoyama, Shimesu; Gotou, Masakazu; Shirakawa, Hiromu; and Makino, Takamoto, 4,640,218, Cl. 118-19.000.
Makino, Takao; and Osada, Shinichi, to Kabushiki Kaisha Morita Seisakusho. Automatic exposure device for a panoramic X-ray photographing device. 4,641,331, 2-3-87, Cl. 378-108.000.
Makino, Teruyoshi: *See*—
Ono, Minoru; and Makino, Teruyoshi. 4,637,703, Cl. 354-276.000.
Makino, Tetsuo: *See*—
Fujiwara, Haruyoshi; Makino, Tetsuo; and Iwata, Hiroshi, 4,708,773, Cl. 162-300.000.
Makino, Tomoatsu: *See*—
Matsui, Takeshi; Takeda, Shunichi; and Makino, Tomoatsu, 4,638,785, Cl. 123-644.000.
Makino, Yasuo: *See*—
Togashi, Shigeru; Saitoh, Hiromi; Takahashi, Shigeyuki; Makino, Yasuo; Kakinuma, Mitsuru; Satoh, Shigeo; and Sugiyama, Shigeki, 4,703,628, Cl. 62-135.000.
Makino, Yoshimi; Ochiai, Yoshitaka; Uedaira, Satoru; Hotai, Kazuhide; Aso, Koichi; and Hayakawa, Masatoshi, to Sony Corporation. Method of manufacturing an amorphous magnetic alloy. 4,639,278, 1-27-87, Cl. 148-108.000.
Makino, Yoshio; Nagai, Takeshi; and Yamazaki, Shingo, to Nippon Oil and Fats Co., Ltd. Lubricating oil composition for metal rolling. 4,636,323, 1-13-87, Cl. 252-51.50R.
Makino, Yoshiyuki: *See*—
Sadamitsu, Kazuo; and Makino, Yoshiyuki, 4,706,713, Cl. 138-137.000.
Makinoda, Mitsugi, to Kurita Machinery Manufacturing Company. Washing apparatus for filter presses. 4,659,465, 4-21-87, Cl. 210-225.000.
Makise, Masanobu: *See*—
Fukunaga, Hosaku, 4,654,157, Cl. 252-70.000.
Makishima, Akio; and Tani, Toshiro, to National Institute for Researches in Inorganic Materials; and Agency of Industrial Science & Technology. Functional organic-inorganic composite amorphous material and process for its production. 4,639,329, 1-27-87, Cl. 252-501.100.
Makishima, Nobuko, legal representative: *See*—
Fujita, Yuji; Ikeda, Tadao; and Makishima, Tokuo, deceased, 4,634,740, Cl. 525-240.000.
Kato, Masayuki; Taguchi, Yoshio; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,683,275, Cl. 526-262.000.
Kohora, Tadanao; Ueki, Satoshi; Tachikawa, Mamoru; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,647,550, Cl. 502-115.000.
Makishima, Tokuo, deceased; Makishima, Nobuko, legal representative; Ueki, Satoshi, legal representative; and Imai, Chichiro, legal representative, 4,705,830, Cl. 525-333.400.
Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,704,433, Cl. 525-242.000.
Makishima, Tatsuo: *See*—
Kusano, Chushirou; Ishioka, Sachio; Imamura, Yoshinori; Takasaki, Yukio; Ogawa, Hirofumi; Makishima, Tatsuo; and Hirai, Tadaaki, 4,636,682, Cl. 313-386.000.
Makishima, Tokuo: *See*—
Tachikawa, Mamoru; Ueki, Satoshi; Sakuma, Masato; Imai, Chihiro; and Makishima, Tokuo, 4,678,767, Cl. 502-104.000.
Tachikawa, Mamoru; Sakuma, Masato; Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, 4,686,199, Cl. 502-104.000.
Makishima, Tokuo, deceased; by Makishima, Nobuko, legal representative; by Ueki, Satoshi, legal representative; and by Imai, Chichiro, legal representative, to Toa Nenryo Kogyo Kabushiki Kaisha. Block copolymer containing tetrahydrofuran block. 4,705,830, 11-10-87, Cl. 525-333.400.
Makishima, Tokuo, deceased: *See*—
Fujita, Yuji; Ikeda, Tadao; and Makishima, Tokuo, deceased, 4,634,740, Cl. 525-240.000.
Kato, Masayuki; Taguchi, Yoshio; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,683,275, Cl. 526-262.000.
Kohora, Tadanao; Ueki, Satoshi; Tachikawa, Mamoru; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,647,550, Cl. 502-115.000.
Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,704,433, Cl. 525-242.000.
Makita Electric Works, Ltd.: *See*—
Fushiya, Fusao; Hakamata, Nobuo; Abe, Hiroyuki; and Inoue, Nobuhiro, 4,638,700, Cl. 83-467.00R.
Makita, Masaru, to Canon Kabushiki Kaisha. Printing apparatus capable of correcting printed characters by offset prints. 4,692,045, 9-8-87, Cl. 400-697.000.
Makita, Muneharu; and Maeno, Jun-ichi, to Arakawa Kagaku Kogyo Kabushiki Kaisha. Process for preparing highly water-absorbent resin. 4,647,636, 3-3-87, Cl. 526-206.000.
Makitalo, Valto J.: *See*—
Hultholm, Stig-Erik; Lilja, Launo L.; Makitalo, Valto J.; and Nyman, Bror G., 4,648,973, Cl. 210-629.000.
Makiuchi, Masao, to Fujitsu Limited. Method of producing semiconductor laser. 4,716,125, 12-29-87, Cl. 437-22.000.
Makiura, Yoshinori: *See*—
Hisajima, Masahiko; Shigemura, Yutaka; Makiura, Yoshinori; and Ishito, Mitsuya, 4,673,283, Cl. 355-14.0SH.
Shigemura, Yutaka; Makiura, Yoshinori; and Ishito, Mitsuya, 4,671,643, Cl. 355-3.0FU.
Makiyo, Minoru: *See*—
Nakamura, Koichi; Ishibashi, Masashi; Kameda, Hideki; and Makiyo, Minoru, 4,699,743, Cl. 264-104.000.
Makizawa, Yoshiaki: *See*—
Nakagawa, Tohru; Sakurai, Yasuo; and Makizawa, Yoshiaki, 4,648,785, Cl. 414-744.00A.
Makkink, Andrew E. Method of calibrating and calibrating device for agricultural chemical. 4,663,960, 5-12-87, Cl. 73-3.000.
Makley, James A.: *See*—
Hamisch, Paul H., Jr.; Makley, James A.; Pabodie, Robert M.; and Strausburg, Larry D., 4,690,317, Cl. 227-67.000.
Mako Marine, Inc.: *See*—
Petrilli, Peter J., 4,706,810, Cl. 206-320.000.
Makoe, Michael. Lock-operated cut-off switch for electronically operated doors. 4,658,106, 4-14-87, Cl. 200-61.640.
MaKosch, Gunter, to International Business Machines Corporation. Method and arrangement for optically determining surface profiles. 4,714,348, 12-22-87, Cl. 356-351.000.
Makosch, Gunter: *See*—
Jarisch, Walter; and Makosch, Gunter, 4,653,922, Cl. 356-357.000.
Makoui, Kambiz B.; and Chatterjee, Pronoy K., to Personal Products Company. Cross-linked pore containing microfibrillated cellulose prepared by freezing and solvent exchange. 4,689,118, 8-25-87, Cl. 162-100.000.
Makovec, Francesco: *See*—
Senin, Paolo; Makovec, Francesco; and Rovati, Luigi, 4,642,340, Cl. 536-55.200.
Makow, Henry, to Hasbro Canada, Inc. Question and answer game apparatus and method. 4,635,939, 1-13-87, Cl. 273-296.000.
Makris, James S.: *See*—
Beyer, Klaus D.; Makris, James S.; Mendel, Eric; Nummy, Karen A.; Ogura, Seiki; Riseman, Jacob; and Rovedo, Nivo, 4,671,851, Cl. 156-645.000.
Fulton, Inge G.; Makris, James S.; Nastasi, Victor R.; Scaduto, Anthony F.; and Shartel, Anne C., 4,666,556, Cl. 156-643.000.
Maks, Richard: *See*—
Radek, John R.; Maks, Richard; and Vestuto, Russell, 4,674,231, Cl. 49-118.000.
Maksymiak, John: *See*—
Sosinski, Ronald T.; Lu, Chi-Chang; and Maksymiak, John, 4,669,853, Cl. 355-3.0SH.
Makusij, Andrew J.: *See*—
Field, Martin J.; Makusij, Andrew J.; and Penwright, James L., 4,653,528, Cl. 137-269.000.
Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, to Gruppo Lepetit S.p.A. Glycopeptide antibiotic L 17054. 4,645,827, 2-24-87, Cl. 530-322.000.
Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, to Gruppo Lepetit S.p.A. Glycopeptide antibiotic L 17046. 4,650,855, 3-17-87, Cl. 530-322.000.
Malabarba, Adriano; Magni, Ambrogio; Strazzolini, Paolo; Cavalleri, Bruno; and Trani, Aldo, to Gruppo Lepetit S.P.A. Ester derivatives of antibiotic L 17046. 4,661,470, 4-28-87, Cl. 514-9.000.
Malabarba, Adriano; and Cavalleri, Bruno, to Gruppo Lepetit S.p.A. Basic monocarboxyamide derivatives of actagardine having antibiotic activity and compositions thereof. 4,684,644, 8-4-87, Cl. 514-210.000.
Malabarba, Adriano; and Cavalleri, Bruno, to Gruppo Lepetit, S.p.A. Process for preparing antibiotic L 17046. 4,698,418, 10-6-87, Cl. 530-317.000.
Malabarba, Adriano; Borghi, Angelo; Strazzolini, Paolo; Cavalleri, Bruno; and Coronelli, Carolina, to Gruppo Lepetit S.p.A. Antibiotic L 17046 and process for preparing it. 4,699,977, 10-13-87, Cl. 530-322.000.
Malaby, Davey L.: *See*—
Bantz, David F.; Malaby, Davey L.; and Sholtz, Paul N., 4,679,038, Cl. 340-721.000.
Malacarne, Oreste J.: *See*—
Hansen, Donald J.; Goddard, John B.; and Malacarne, Oreste J., 4,666,512, Cl. 75-101.00R.

Malafosse, Jean: *See—*
Rignon, Maurice; Catonne, Jean-Claude; Denisard, Francoise; and Malafosse, Jean, 4,678,549, Cl. 204-74.000.

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Creasy, Walter S.; Lorenz, Donald H.; LaCasse, Robert G.; and Malagreca, Salvatore A., 4,642,267, Cl. 428-413.000.

Malaise, Jacques J.: *See—*
Branigan, John T.; and Malaise, Jacques J., 4,698,638, Cl. 343-725.000.

Malakhoff, Alexander: *See—*
Davis, Sydney; and Malakhoff, Alexander, 4,657,101, Cl. 180-127.000.

Malamed, Josef, to JMW Textiles. Single tape closure construction. 4,672,722, 6-16-87, Cl. 24-446.000.

Malancon, Irvin P., Jr. Container and holder for dispensing baking soda. 4,691,822, 9-8-87, Cl. 206-229.000.

Malandain, Michel: *See—*
Brancq, Bernard; and Malandain, Michel, 4,665,648, Cl. 47-57.600.

Malandra, Louis J.; Leduc, Robert J.; Hankinson, Michael F.; and Kowalski, Edward F., to Westinghouse Electric Corp. Modular head assembly and method of retrofitting existing nuclear reactor facilities. 4,678,623, 7-7-87, Cl. 376-260.000.

Malandrino, Salvatore: *See—*
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Malani, Shrikant R.: *See—*
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Malard, Marcel: *See—*
Huignard, Jean-Pierre; Malard, Marcel; and de Corlieu, Guy, 4,639,091, Cl. 350-347.00V.

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Malashenko, Leon, to John T. Hepburn, Limited. Hydraulic press with side slab guided upper platen. 4,690,049, 9-1-87, Cl. 100-214.000.

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Hepburn, James; and Malashenko, Leon, 4,694,744, Cl. 100-214.000.

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Cargill, N. Allen; and Malashkin, Michail, 4,691,910, Cl. 271-3.000.

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Kinderov, Petr A.; Volkov, Nikolai S.; Vasilieva, Natalia V.; and Malashkina, Regina T., 4,702,860, Cl. 252-511.000.

Malaubier, Francois: *See—*
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Jacquet, Bernard; Lang, Gerard; Malaval, Alain; Forestier, Serge; and Le Trung, Do, 4,702,906, Cl. 424-70.000.
Lang, Gerard; Leduc, Madeleine; and Malaval, Alain, 4,654,434, Cl. 560-51.000.
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Malaval, Claude, to Novatome. Cover-plug for the core of a fast neutron nuclear reactor. 4,639,350, 1-27-87, Cl. 376-290.000.

Malaval, Claude: *See—*
Dumay, Jean-Jacques; and Malaval, Claude, 4,713,214, Cl. 376-312.000.

Malavarca, Richard H.: *See—*
Kopchick, John J.; Leung, Frederick C.; Livelli, Thomas J.; and Malavarca, Richard H., 4,686,098, Cl. 424-15.000.

Malavieille, Francois-Louis, to Alliance Technique Industrielle. Method of connecting optical fibers. 4,662,962, 5-5-87, Cl. 156-158.000.

Malaviya, Shashi D., to International Business Machines Corporation. Fabrication of stud-defined integrated circuit structure. 4,648,173, 3-10-87, Cl. 29-576.00W.

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Goth, George R.; and Malaviya, Shashi D., 4,688,073, Cl. 357-56.000.
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Malbec, Edouard. Peristaltic pump. 4,702,679, 10-27-87, Cl. 417-475.000.

Malbrancq, Jean-Michel; and Vantard, Georges, to Rhone-Poulenc S.A. Process/apparatus for the withdrawal/return of body fluids. 4,648,866, 3-10-87, Cl. 604-5.000.

Malbrancq, Jean-Michel; Bouveret, Elisabeth; and Angleraud, Rene, to Rhone-Poulenc S.A. Membrane apparatus/process adapted for plasmapheresis. 4,687,580, 8-18-87, Cl. 210-651.000.

Malburg, Werner: *See—*
Seidel, Albert; and Malburg, Werner, 4,694,655, Cl. 62-51.000.

Malchow, Gregory L.: *See—*
Werner, Kurt; Malchow, Gregory L.; Carr, Keith E.; and Brenner, Robert A., 4,700,492, Cl. 34-32.000.

Malcolm, Alexander R.; and Gessner, David M., to Nutrapack, Inc. Testing and dispensing apparatus for an enteral feeding system. 4,655,763, 4-7-87, Cl. 604-404.000.

Malcolm, Arcelio J.; Everly, Charles R.; and Nelson, Gunner E., to Ethyl Corporation. Formation of alkylsilanes. 4,670,574, 6-2-87, Cl. 556-478.000.

Malcolm-Brown, Tessa, to Dixon International Limited. Intumescent material. 4,636,538, 1-13-87, Cl. 523-179.000.

Malcolm, Eddie R., to Fike Corporation. Vibration resistant explosion control vent. 4,662,126, 5-5-87, Cl. 52-1.000.

Malcolm Gill Ltd.: *See—*
Gill, Malcolm; and Hoyle, Steven, 4,671,769, Cl. 433-213.000.

Malcolm Nicol & Co.: *See—*
Colon, Herman; and Maletsky, Albert, 4,681,576, Cl. 604-361.000.

Malcolm, Ronald D., Jr.: *See—*
Beg, Mirza R.; Perl, Julius; and Malcolm, Ronald D., Jr., 4,688,095, Cl. 358-160.000.

Malcombe, Jean-Claude, to Societe de Maintenance Electronique "SOMELEC". Miniature high-gain antenna. 4,701,764, 10-20-87, Cl. 343-742.000.

Malcosky, Norman D., to Columbia Gas System Service Corp. Apparatus and method for detecting gas bubbles in water, and apparatus for handling an oceanographic device. 4,658,750, 4-21-87, Cl. 114-244.000.

Malcosky, Norman D.; and Koziar, Gregory, to Columbia Gas System Service Corp. Gas tracer composition and method. 4,690,689, 9-1-87, Cl. 48-174.000.

Maldonado, Paul; Leger, Robert; Cohen, Choua; and Sillion, Bernard, to Institut Francais du Petrole; and Elf France. Hydrocarbon middle distillates composition containing nitrogen-containing additives for decreasing its cloud point. 4,652,273, 3-24-87, Cl. 44-63.000.

Malecka, Joseph R.: *See—*
Brooks, Thomas W.; Masseth, David A.; Malecka, Joseph R.; Stiver, C. Edward; Pearson, Charles S.; and Fox, James D., 4,703,643, Cl. 72-402.000.

Malecot, Jean-Guy: *See—*
Douchy, Marc; Lohez, Pierre; Malecot, Jean-Guy; and Retali, Gilbert, 4,656,007, Cl. 422-64.000.

Malek, Edward J., to S. C. Johnson & Son, Inc. Low mass piston for aerosol container. 4,703,875, 11-3-87, Cl. 222-386.500.

Malek, Edward J.: *See—*
Crapser, James R.; and Malek, Edward J., 4,679,713, Cl. 222-402.130.

Malek, Fritz J., to Santa Barbara Research Center. Direction finder system with mirror array. 4,711,998, 12-8-87, Cl. 250-203.00R.

Malek, Fritz J., to Santa Barbara Research Center. Retroreflector. 4,712,867, 12-15-87, Cl. 350-103.000.

Malesci S.p.A. Istituto Farmacobiologico: *See—*
Bonacchi, Graziano; Fedi, Mauro; and Giannini, Mario, 4,692,525, Cl. 544-360.000.

Malescot, Georges: *See—*
Lagreze, Richard; and Malescot, Georges, 4,701,228, Cl. 149-109.600.

Malestein, Teus. Apparatus and method for rearing and/or keeping animals. 4,697,547, 10-6-87, Cl. 119-18.000.

Malestein, Teus. Device and method for keeping animals. 4,697,548, 10-6-87, Cl. 119-22.000.

Malestein, Teus. Apparatus for supplying food to a plurality of cages. 4,715,323, 12-29-87, Cl. 119-52.0AF.

Maletsky, Albert: *See—*
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Maletz, Gerd: *See—*
Schneider, Michael; Kochloefl, Karl; Maletz, Gerd; and Wernicke, Hans J., 4,692,425, Cl. 502-81.000.

Maleyko, John R. K.; and Grijak, Gerald. Extendible boot. 4,693,018, 9-15-87, Cl. 36-1.500.

Malfitano, Amanda. Spined sanitary napkin and belt. 4,666,440, 5-19-87, Cl. 604-391.000.

Malfroot, Thierry; Piteau, Marc; and Senet, Jean-Pierre, to Societe Nationale des Poudres et Explosifs. Process for the preparation of 1-bromoethyl hydrocarbonyl carbonates and new 1-bromoethyl hydrocarbonyl carbonates. 4,697,032, 9-29-87, Cl. 558-270.000.

Malguarnera, Salvatore C., to NL Industries, Inc. Flowmeter. 4,641,535, 2-10-87, Cl. 73-861.010.

Malherbe, Roger F.: *See—*
Conetta, Thomas E.; Malherbe, Roger F.; and Winter, Roland A. E., 4,650,870, Cl. 544-357.000.
Ravichandran, Ramanathan; Malherbe, Roger F.; and Seltzer, Raymond, 4,649,221, Cl. 564-300.000.
Winter, Roland A. E.; and Malherbe, Roger F., 4,665,185, Cl. 546-184.000.

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Malhi, Satwinder, to Texas Instruments Incorporated. Method for fabricating a CMOS well structure. 4,662,061, 5-5-87, Cl. 29-576.00B.

Malhi, Satwinder: *See—*
Womack, Richard H.; Banerjee, Sanjay K.; Shichijo, Hisashi; and Malhi, Satwinder, 4,713,678, Cl. 357-23.600.

Malhi, Satwinder D. S., to Texas Instruments Incorporated. Method of providing buried contacts for N and P channel devices in an SOI-CMOS process using a single N+polycrystalline silicon layer. 4,677,735, 7-7-87, Cl. 29-571.000.

Malhi, Satwinder D. S., to Texas Instruments Incorporated. Method of forming vertically integrated current source. 4,689,871, 9-1-87, Cl. 437-40.000.

Malhi, Satwinder S., to Texas Instruments Incorporated. Dram cell and array. 4,651,184, 3-17-87, Cl. 357-23.600.

Malhotra, Satish C., to Du Pont de Nemours, E. I., and Company. Tetrafluoroethylene fine powder and preparation thereof. 4,640,955, 2-3-87, Cl. 524-546.000.

Malhotra, Satish C., to Du Pont de Nemours, E. I., and Company. Preparation of tetrafluoroethylene fine powder. 4,654,406, 3-31-87, Cl. 526-91.000.

Malhotra, Satish C.: *See*—
Gangal, Subhash V.; and Malhotra, Satish C., 4,636,549, Cl. 524-546.000.
Knight, Alan C.; and Malhotra, Satish C., 4,639,497, Cl. 526-93.000.

Malhotra, Satish K., to Steyr-Daimler-Puch AG. Hand firearm. 4,677,898, 7-7-87, Cl. 89-187.010.

Malhotra, Shadi L., to Xerox Corporation. Thermal transfer printing sheets containing certain coating compositions thereof. 4,578,687, 7-7-87, Cl. 427-261.000.

Malhotra, Shadi L., to Xerox Corporation. Coatings for typewriter transparencies. 4,701,367, 10-20-87, Cl. 428-216.000.

Malhotra, Sudarshan K.; and Evoy, Ingrid L., to Dow Chemical Company, The. Certain 6-aminomethyl or monoalkylamino or dialkylamino or heterocyclicamino-2-diphenoxymethyl pyridines having herbicidal activity. 4,661,144, 4-28-87, Cl. 71-88.000.

Malhotra, Sudarshan K.; and Evoy, Ingrid L., to Dow Chemical Company, The. Diphenoxymethyl-pyridinephosphates and phosphorothioates having herbicidal properties. 4,685,953, 8-11-87, Cl. 71-86.000.

Malhotra, Sudarshan K.; and Evoy, Ingrid L., to Dow Chemical Company, The. Diphenoxymethylpyridines and compositions containing same having herbicidal properties. 4,692,183, 9-8-87, Cl. 71-94.000.

Mali S.A.R.L.: *See*—
Durner, Yvan, 4,643,613, Cl. 405-161.000.

Malick, Robert G., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Tilt adjusting mechanism. 4,669,694, 6-2-87, Cl. 248-397.000.

Malicki, Siegfried: *See*—
Arnold, Herbert; Jundt, Werner; Malicki, Siegfried; and Werner, Peter, 4,653,450, Cl. 123-479.000.

Maliczyszyn, Walter: *See*—
Mazzarella, Emil D.; Maliczyszyn, Walter; and Atkinson, Jeffrey, 4,711,671, Cl. 106-243.000.

Malik, Arshad H.; McDaniel, Robert S., Jr.; and Urfer, Allen D., to A. E. Staley Manufacturing Company. Liquid hand-soap or bubble bath composition. 4,668,422, 5-26-87, Cl. 252-174.170.

Malik, Arshad H.; Urfer, Allen D.; McDaniel, Robert S.; and Johnson, Donald L., to A. E. Staley Manufacturing Company. Carpet shampoo or upholstery cleaning composition. 4,678,595, 7-7-87, Cl. 252-174.170.

Malik, Arshad H.; and Urfer, Allen D., to A. E. Staley Manufacturing Company. Stability and compatibility of glycosides in acid systems. 4,683,074, 7-28-87, Cl. 252-136.000.

Malik, Arshad H., to A. E. Staley Manufacturing Company. Method for inhibiting oxidation of ferrous metals with alkyl glycosides and composition for cleaning ferrous metals. 4,705,665, 11-10-87, Cl. 422-12.000.

Malik, Iftakhar: *See*—
Alexander, Bruce H.; and Malik, Iftakhar, 4,656,681, Cl. 5-451.000.

Malik, Louis: *See*—
Thuries, Edmond; Masson, Jean-Paul; and Malik, Louis, 4,715,834, Cl. 439-842.000.

Malik, Michael; and Greene, Joseph L., to Richardson Chemical Company. Electroless deposition magnetic recording media process and products produced thereby. 4,659,605, 4-21-87, Cl. 427-129.000.

Malik, Roger J.: *See*—
Dixon, Samuel, Jr.; AuCoin, Thomas R.; and Malik, Roger J., 4,654,609, Cl. 333-17.00L.
Iafrate, Gerald J.; Malik, Roger J.; and Au Coin, Thomas, 4,667,211, Cl. 357-4.000.

Malik, Vedpal S.; Semp, Bernard A.; Bravo, Hernan G.; and Teng, Daniel M., to Philip Morris Incorporated. Thermophilic denitrification of tobacco. 4,685,478, 8-11-87, Cl. 131-297.000.

Malin, Nancy E.: *See*—
Fayerman, Jeffrey T.; and Malin, Nancy E., 4,643,975, Cl. 435-317.000.
Fayerman, Jeffrey T.; Jones, Michael D.; and Malin, Nancy E., 4,666,846, Cl. 435-243.000.

Malina, Ludek; and Ott, Ernst, to Rieter Machine Works Ltd. Spinning device for open-end spinning containing easily replaceable nozzle body. 4,635,436, 1-13-87, Cl. 57-417.000.

Malinge, Jean; Rabilloud, Guy; and Sillion, Bernard, to Centre d'Etude des Materiaux Organiques pour Technologies Avancees. Precursor of copolyphthalocyanine-imide lattice, preparation, and t[illegible] resultant lattice. 4,645,821, 2-24-87, Cl. 528-331.000.

Malingowski, Joseph S.: *See*—
Shutterly, Harold B.; and Malingowski, Joseph S., 4,688,260, Cl. 455-601.000.

Malings, Michael J.: *See*—
Holden, Ian; and Malings, Michael J., 4,698,779, Cl. 364-520.000.

Malinowski, Leon; and Lange, Kenneth, to Leon's Mfg. Co. Ltd. Cultivator shank. 4,683,958, 8-4-87, Cl. 172-705.000.

Malinowski, Leon A.; and Lange, Kenneth J., to Leon's Mfg. Co. Ltd. Chisel plow release mechanisms. 4,699,221, 10-13-87, Cl. 172-705.000.

Malinowski, Paul A.: *See*—
Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, 364-200.000.

Malinowski, Peter: *See*—
Divisek, Jiri; and Malinowski, Peter, 4,636,291, Cl. 204-283.000.

Malito, John T.; and Roberson, Morris L., to Kaiser Aluminum Chemical Corporation. Removal of high molecular weight organic compounds from Bayer process caustic liquor. 4,663,133, 5-5-87, 423-130.000.

Malizard, Max A.: *See*—
Fontaine, Guy R.; Malizard, Max A.; and Demouron, Bernard, 4,702,674, Cl. 417-44.000.

Malka, Jacob H.; and Hartmann, Joseph P., to Allied-Signal Inc. Apparatus and method for determining the magnitude and phase of a fundamental component of a complex waveshape. 4,644,268, 2-17-87, Cl. 324-83.00R.

Malka, Jacob H., and Thurakal, Philip J., to Allied Corporation. Multichannel, self-calibrating, analog input/output apparatus for generating and measuring DC stimuli. 4,677,581, 6-30-87, Cl. 364-571.000.

Malka, Jacob H.; and Osetec, Marc, to Allied Corporation. Function generator. 4,680,726, 7-14-87, Cl. 364-721.000.

Malka, Jacob H.: *See*—
James, Robert; and Malka, Jacob H., 4,703,307, Cl. 340-347.0SY.

Malke, Wolfgang: *See*—
Dobring, Wilfried; Rubey, Wolfgang; and Malke, Wolfgang, 4,651,609, Cl. 83-620.000.

Malkia, Hannu: *See*—
Hanhikoski, Hannu; Kalliola, Lauri; and Malkia, Hannu, 4,642,16[illegible] Cl. 162-207.000.

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Malkki, Raimo; Kuisma, Antti; and Verkasalo, Matti, to Valmet Oy; and Oy Kaukas AB. Method for controlling paper web reel-up. 4,634,06[illegible] 1-6-87, Cl. 242-65.000.

Malkki, Yrjo: *See*—
Pellinen, Markku; Malkki, Yrjo; and Niskanen, Aimo, 4,637,16[illegible] Cl. 47-1.100.

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Malladi, Devi P.; Mathew, Ranjan; and Shah, Divyesh P., to National Semiconductor Corporation. Copper cleaning and passivating for tape automated bonding. 4,714,517, 12-22-87, Cl. 156-629.000.

Malladi, Madhava: *See*—
Dabkowski, Michael J.; and Malladi, Madhava, 4,661,241, Cl. 208-131.000.

Mallard, J. R.; and Neale, F. E. Field modifying elements for an electromagnet having a substantially C-shaped yoke. 4,656,449, 4-7-87, Cl. 335-297.000.

Mallard, John R.: *See*—
Eastwood, Linda M.; Hutchison, James M. S.; Johnson, Glyn; Redpath, Thomas W. T.; Selbie, Robert D.; and Mallard, John R., 4,651,095, Cl. 324-307.000.
Edelstein, William A.; Hutchison, James M. S.; Johnson, Glyn; Redpath, Thomas W. T.; and Mallard, John R., 4,706,025, Cl. 324-309.000.
Redpath, Thomas W. T.; Selbie, Robert D.; Hutchison, James M. S.; Eastwood, Linda M.; Johnson, Glyn; and Mallard, John R., 4,652,825, Cl. 324-318.000.
Watmough, David J.; Mallard, John R.; and Hynynen, Kullervo, 4,646,756, Cl. 128-804.000.

Mallard Machine Company: *See*—
Zeiger, Donald J., 4,643,665, Cl. 425-563.000.

Mallard Products, Incorporated: *See*—
Velie, Wally W., 4,693,008, Cl. 30-390.000.

Mallary, Michael L., to Digital Equipment Corporation. Method for producing magnetic heads. 4,695,351, 9-22-87, Cl. 204-15.000.

Mallek, Heinz; Zange, Egon; Schlenter, Wolfgang; Trumper, Karl; Meininger, Siegfried; and Bege, Dietmar, to Kernforschungsanlage Julich GmbH. Process for conditioning contaminated waste through cementing. 4,652,404, 3-24-87, Cl. 252-628.000.

Mallener, Werner; and Overhoff, Theodor, to Kernforschungsanlage Julich GmbH. Method of and device for the reduction of reactivity of a nuclear reactor core. 4,681,732, 7-21-87, Cl. 376-337.000.

Mallet, Bernard: *See*—
Lassiaz, Philippe; and Mallet, Bernard, 4,646,901, Cl. 192-109.00A.
Lassiaz, Philippe; and Mallet, Bernard, 4,660,701, Cl. 192-98.000.
Lassiaz, Philippe; and Mallet, Bernard, 4,667,800, Cl. 192-98.000.

Mallett, A. J.; and Minear, John W., to Halliburton Company. Transducer forming compression and shear waves for use in acoustic well logging. 4,700,803, 10-20-87, Cl. 181-106.000.

Mallett, Gordon L. Fairing for bicycles and the like. 4,655,497, 4-7-87, Cl. 296-78.100.

Mallette, Robert P.: *See*—
Griffin, Kevin W.; and Mallette, Robert P., 4,696,706, Cl. 156-62.000.

Malley, David R., to United Technologies Corporation. Elimination of quench cracking in superalloy disks. 4,654,091, 3-31-87, Cl. 148-13.100.

Mallick, George T., Jr.; Wolfe, William R.; and Cumberledge, Edward L., to Westinghouse Electric Corp. Auctioneering circuit. 4,704,546, 11-3-87, Cl. 307-355.000.

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Mallick, George T., Jr.: *See*—
Salowe, Seymour; and Mallick, George T., Jr., 4,670,891, Cl. 377-20.000.

Mallik, Barendra C.: *See*—
Den Boer, Patrick; Heinze, Richard F.; Meyers, Benjamin L.; and Mallik, Barendra C., 4,652,313, Cl. 106-289.000.

Mallinckrodt Diagnostica (Germany) GmbH: *See*—
Lentfer, Dierck, 4,654,299, Cl. 435-7.000.

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Panek, Karel J., 4,643,891, Cl. 424-1.100.

Mallinckrodt, Inc.: *See*—
Bell, Craig J., 4,653,539, Cl. 137-860.000.
Buck, Keith T.; Boeing, Anthony J.; and Dolfini, Joseph E., 4,673,766, Cl. 568-433.000.
Bugaj, Joseph E.; and Grogg, Terry W., 4,707,353, Cl. 424-1.100.
Cantrell, Gary L., 4,642,398, Cl. 568-937.000.
Conner, Donald E., 4,680,144, Cl. 260-501.150.
Dolfini, Joseph E.; and Glinka, Jerome, 4,709,098, Cl. 568-491.000.
Dunski, Neil; Bazzi, Ali A.; and Buehler, Henry J., 4,634,728, Cl. 524-219.000.
Dunski, Neil; Bazzi, Ali A.; and Buehler, Henry J., 4,680,325, Cl. 524-101.000.
Dutton, Edmund L.; Selfridge, Glenn D.; and Tipton, Russell C., 4,701,415, Cl. 435-289.000.
Goedemans, Wilhelmus T., 4,705,678, Cl. 424-1.100.
Hoey, George B., 4,639,364, Cl. 424-9.000.
Inskip, Ervin B.; and Patane, Joseph M., 4,638,079, Cl. 560-4.000.
Inskip, Ervin B.; Caskey, Douglas C.; and Dummitt, William E., 4,663,480, Cl. 562-598.000.
Kavka, Frank, 4,639,520, Cl. 546-45.000.
Kremer, Carl P., Jr., 4,660,547, Cl. 128-1.10.
Lin, Wayne H. T., 4,687,747, Cl. 436-518.000.
Mosier, Larry D., 4,656,251, Cl. 530-387.000.
Nicolotti, Robert A.; and Dean, Richard T., 4,659,839, Cl. 548-546.000.
Orr, Douglas P., 4,674,495, Cl. 128-207.140.
Salpekar, Anil M.; and Denton, Larry E., 4,661,521, Cl. 514-613.000.
Stade, John H., 4,636,198, Cl. 604-154.000.
Stade, John H., 4,705,509, Cl. 604-154.000.
White, Carl R., 4,642,399, Cl. 568-938.000.
White, Carl R., 4,661,625, Cl. 250-560.000.
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Mallinson, Stephen R., to British Telecommunications plc. Optical fibre terminations and methods of and apparatus for making optical fibre terminations. 4,666,237, 5-19-87, Cl. 350-96.200.

Mallon, Joseph R.: *See*—
Kurtz, Anthony D.; and Mallon, Joseph R., 4,695,817, Cl. 338-4.000.

Mallory, Charles W.; Watts, Ralph E.; Paladino, Joseph B.; Razor, John E.; Lilley, Arthur W.; Winston, Steven J.; and Stricklin, Billy C., to Westinghouse Electric Corp. Nuclear waste packaging facility. 4,681,706, 7-21-87, Cl. 252-633.000.

Mallory, Chester: *See*—
Perloff, David S.; and Mallory, Chester, 4,703,252, Cl. 324-62.000.

Mallory, Chester L.: *See*—
Lane, Leslie A.; Lybeck, Lynn V.; Perloff, David S.; and Mallory, Chester L., 4,679,137, Cl. 364-188.000.

Mallory, Michael L., to Digital Equipment Corporation. Vertical magnetic recording arrangement. 4,656,546, 4-7-87, Cl. 360-110.000.

Mallory, Peter E.: *See*—
Halpern, Peter H.; Mallory, Peter E.; Haug, Paul E.; and Koos, William M., Jr., 4,649,549, Cl. 380-32.000.
Halpern, Peter H.; Mallory, Peter E.; Hang, Paul E.; and Koos, William M., Jr., 4,672,637, Cl. 375-96.000.

Mallory, Robert A.: *See*—
Bandurco, Victor T.; Mallory, Robert A.; Press, Jeffrey B.; and Werblood, Harvey M., 4,634,769, Cl. 544-285.000.

Mallory, Robert L.; Schamel, Alfred H.; and Sekel, Stephen M., to Tektronix, Inc. Packaging for electrical instruments. 4,688,148, 8-18-87, Cl. 361-395.000.

Mallory, Robert L.; Schamel, Alfred H.; and Sekel, Stephen M., to Tektronix, Inc. Carrier tray for circuit board. 4,694,380, 9-15-87, Cl. 361-424.000.

Mallory, Roy, to ADE Corporation. Contacts for conductivity-type sensors. 4,646,009, 2-24-87, Cl. 324-158.00R.

Mallott, Orville B. Coplanar RF door seal. 4,656,312, 4-7-87, Cl. 174-35.0GC.

Mallow, Paul: *See*—
Kay, Thomas; Overbeek, Richard; and Mallow, Paul, 4,650,390, Cl. 414-82.000.

Mallow, William A.; and Wood, Robert P., to Earth Protection Systems, Inc. Transient soil erosion and evaporation palliative composition and method. 4,663,067, 5-5-87, Cl. 252-88.000.

Mallow, William A., to Southwest Research Institute. Fluidization of limestone slurries and resultant products. 4,710,226, 12-1-87, Cl. 106-119.000.

Malloy Desormeaux, Stephen G., to Eastman Kodak Company. Film-on-spool sensor for preventing initialization of frame counter. 4,653,886, 3-31-87, Cl. 354-214.000.

Malloy Desormeaux, Stephen G., to Eastman Kodak Company. Film-on-spool sensor for triggering film rewind when camera door opened prematurely. 4,671,636, 6-9-87, Cl. 354-214.000.

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Malloy Desormeaux, Stephen G., to Eastman Kodak Company. Film-on-spool sensor for controlling frame counter. 4,687,311, 8-18-87, Cl. 354-217.000.

Malloy Desormeaux, Stephen G., to Eastman Kodak Company. Camera with door release and film rewind interlock. 4,714,335, 12-22-87, Cl. 354-214.000.

Malloy, James: *See*—
McAlister, Gary B.; and Malloy, James, 4,703,763, Cl. 128-765.000.

Malloy, James T., to Hindelstein, Philip M., a part interest. Bed-of-pins test fixture. 4,701,703, 10-20-87, Cl. 324-158.00F.

Malloy, Thomas P.: *See*—
Munk, Stephen A.; and Malloy, Thomas P., 4,699,812, Cl. 427-393.400.

Malloy Werner, Georgina M.: *See*—
Dill, Gerald M., Jr.; and Malloy Werner, Georgina M., 4,666,509, Cl. 71-93.000.

Mallozzi, Joseph; Dinan, David E.; and Daniels, Edward P., to Pitney Bowes Inc. Interface for mailing system peripheral devices. 4,642,791, 2-10-87, Cl. 364-900.000.

Mally, Timothy G.; Hartl, Carroll P.; Orloff, Daniel L.; and Total, Robert V., to Oscar Mayer Foods Corporation. Product neatening system. 4,645,400, 2-24-87, Cl. 414-28.000.

Mally, Timothy G., to Oscar Mayer Foods Corporation. Food loaf slicing machine with improved stacking characteristics. 4,712,458, 12-15-87, Cl. 83-86.000.

Mally, Timothy G.: *See*—
Jonovic, John A.; Stengel, Bruce W.; and Mally, Timothy G., 4,684,040, Cl. 222-148.000.

Mallya, Prakash, to Polysar Limited. Carboxylated latex. 4,657,966, 4-14-87, Cl. 524-747.000.

Malm, Curtis L., to Gillette Company, The. Cap and clip assembly for instrument. 4,653,154, 3-31-87, Cl. 24-11.00R.

Malm, Robert E., to Northrop Corporation. Infrared imaging array employing metal tabs as connecting means. 4,695,715, 9-22-87, Cl. 250-211.00J.

Malm, Rune; and Mihalcea, Radu, to Seeger-Orbis GmbH. Pliers for retaining rings. 4,702,001, 10-27-87, Cl. 29-720.000.

Malmanger, John A.: *See*—
Gyenge, Andrew; Johnson, Michael D.; and Malmanger, John A., 4,674,647, Cl. 220-6.000.

Malmeblad, Sven-Erik: *See*—
Santen, Sven; Bernhard, Ragnar; and Malmeblad, Sven-Erik, 4,692,209, Cl. 162-30.100.

Maloizel, Christian: *See*—
Bigg, Denis; Menin, Jacques; Maloizel, Christian; and Merly, Jean, 4,659,731, Cl. 514-397.000.

Malojer, Robert: *See*—
Blauhut, Wilfried; Hoschek, Gunter; and Malojer, Robert, 4,706,531, Cl. 83-346.000.

Malon, Raymond F.; and Zampini, Anthony, to Monsanto Company. Asymmetric gas separation membranes. 4,654,055, 3-31-87, Cl. 55-158.000.

Malon, Raymond F.: *See*—
Zampini, Anthony; and Malon, Raymond F., 4,652,283, Cl. 55-158.000.

Malone, Carl J.: *See*—
Zoutendyk, John A.; and Malone, Carl J., 4,675,601, Cl. 324-158.00R.

Malone, Charlotte. Food and item tray for a walker and a wheelchair. 4,659,099, 4-21-87, Cl. 280-289.0WC.

Malone, Don, to University of Tennessee Research Corporation. Mobile vehicle for training skaters. 4,681,332, 7-21-87, Cl. 280-87.02R.

Malone, Garry B. Dog run apparatus having shock absorbing capability. 4,667,625, 5-26-87, Cl. 119-120.000.

Malone, Gary R.: *See*—
Hammerle, Frederick A.; Allen, Philip M.; Geddes, Richard; and Malone, Gary R., 4,706,868, Cl. 227-149.000.

Malone, Gilbert R.; Skursha, Susan K.; and Jost, Robert M., to Lubrizol Corporation, The. Method of analyzing high molecular weight dispersants in motor oils. 4,710,474, 12-1-87, Cl. 436-60.000.

Malone, James R.: *See*—
Gunther, Andreas; Malone, James R.; Lenthe, Manfred; and Hohl, Hans-Walter, 4,683,308, Cl. 544-211.000.

Malone, Thomas J., to Nutri-Developers, Inc. Apparatus and method for preparing feed grain. 4,661,365, 4-28-87, Cl. 426-507.000.

Maloney, Bernard A.; and Carbaugh, John E., to PPG Industries, Inc. Sulfate removal from alkali metal chlorate solutions. 4,636,376, 1-13-87, Cl. 423-475.000.

Maloney, Bobby J.: *See*—
Bakr, Mamdouh M.; and Maloney, Bobby J., 4,690,466, Cl. 312-29.000.

Maloney, Christopher E.; and Crane, Russell M. Gas laser tube apparatus. 4,679,202, 7-7-87, Cl. 372-65.000.

Maloney, David C.: *See*—
Perhach, John M.; Porter, Charles E., Jr.; and Maloney, David C., 4,715,215, Cl. 73-49.300.

Maloney, David G.: *See*—
Levy, Ronald; Dilley, Jeanette; Maloney, David G.; and Miller, Richard A., 4,661,586, Cl. 530-387.000.

Maloney, James F.; Frets, Richard E.; and Oakes, Thomas R., to Diamond Shamrock Chemicals Company. Methods of decontaminating secondary fiber. 4,643,800, 2-17-87, Cl. 162-5.000.

Maloney, James J.: *See*—
Pahade, Ravindra F.; Maloney, James J.; and Handley, James R., 4,664,686, Cl. 62-24.000.

Maloney, Kevin, to Cosco, Inc. Foldable high chair. 4,653,805, 3-31-87, Cl. 297-284.000.

Maloney, Kevin, to Cosco, Inc. High chair with adjustable back. 4,696,514, 9-29-87, Cl. 297-284.000.

Maloney, Laurence T.: *See*—
Wandell, Brian A.; and Maloney, Laurence T., 4,648,051, Cl. 364-526.000.

Maloney, Michael J. Transporting unit for trucks and the like. 4,647,270, 3-3-87, Cl. 414-470.000.

Maloney, Patrick M.: *See*—
Bradshaw, Franklin C.; and Maloney, Patrick M., 4,697,940, Cl. 400-134.600.

Maloney Pipeline Products Company: *See*—
Bell, Ross A.; and Abila, Ernesto M., 4,658,646, Cl. 73-432.100.

Maloney, Terrance R. Electric feedback guitar. 4,697,491, 10-6-87, Cl. 84-1.050.

Maloney, Timothy R.; Patterson, David E.; and Aseltine, Richard J., to Chevron Research Company. Intermittent oil well gas-lift apparatus. 4,708,595, 11-24-87, Cl. 417-109.000.

Maloon, Richard A.; and Woodsum, Harvey C., to Sanders Associates, Inc. Autoregressive digital telecommunications system. 4,635,278, 1-6-87, Cl. 375-45.000.

Malopolski, William A., Jr., to General Motors Corporation. Door check. 4,663,801, 5-12-87, Cl. 16-82.000.

Malot, James J.: *See*—
Visser, Melvin J.; and Malot, James J., 4,660,639, Cl. 166-267.000.

Maloy, Rex M.; and Moore, John C., to Coburn, Orin W. Coin chute assembly. 4,664,245, 5-12-87, Cl. 194-319.000.

Malpass, Dennis B., to Exxon Research & Engineering Co. Polyethylene with broad molecular weight distribution. 4,657,998, 4-14-87, Cl. 526-144.000.

Malpass, Dennis B.; and Fannin, Loyd W., to Texas Alkyls, Inc. Method for recovery of alkylaluminum halides. 4,670,571, 6-2-87, Cl. 556-129.000.

Malpass, Dennis B.; Fannin, Loyd W.; Crapo, Clark C.; and Triplett, Kelly B., to Texas Alkyls, Inc. Organomagnesium solutions of low viscosity. 4,707,462, 11-17-87, Cl. 502-153.000.

Malpass, Jack W., to Berlex Laboratories, Inc. Medication dispenser and container. 4,693,371, 9-15-87, Cl. 206-538.000.

Malpass, Michael W.: *See*—
Sage, Burton H.; Adrion, Robert F.; and Malpass, Michael W., 4,660,971, Cl. 356-39.000.

Malrick, David A. Hole saws. 4,652,185, 3-24-87, Cl. 408-68.000.

Malsbury, Charles R.; and Lawrence, Richard R., to Rexcel, Inc. Sealing lid and container. 4,679,699, 7-14-87, Cl. 220-307.000.

Malsky, Herbert, to Charles Stark Draper Laboratory, Inc., The. Dynamoelectric machine having a large magnetic gap and flexible printed circuit phase winding. 4,645,961, 2-24-87, Cl. 310-156.000.

Malson, Tomas; and Lindqvist, Bengt L., to Pharmacia AB. Gel of crosslinked hyaluronic acid for use as a vitreous humor substitute. 4,716,154, 12-29-87, Cl. 514-54.000.

Malson, William S.; and Sharpe, John W., to Water Systems Development Corporation. Canteen carried water purifier system. 4,714,550, 12-22-87, Cl. 210-244.000.

Maltiel, Ron; and Yau, Robert L., to Advanced Micro Devices, Inc. Method and apparatus for non-destructive access of volatile and non-volatile data in a shadow memory array. 4,716,552, 12-29-87, Cl. 365-222.000.

Maltiel, Ron: *See*—
Yau, Robert L.; and Maltiel, Ron, 4,672,580, Cl. 365-189.000.

Malueg, Vicki J.: *See*—
Chan, Kevin K.; and Malueg, Vicki J., 4,689,111, Cl. 156-643.000.

Malutich, William J. Blade for rotary lawn mower. 4,651,510, 3-24-87, Cl. 56-295.000.

Malvern Scale Company: *See*—
Stuart, James M., 4,646,859, Cl. 177-187.000.

Malvy, Michel; and Jalabert, Pierre. Device for rapidly interlocking or disengaging, for anti-theft purposes, the steering wheel and the steering column of a motor vehicle. 4,659,244, 4-21-87, Cl. 403-24.000.

Malwitz, Nelson E., to Sealed Air Corporation. Fire-retardant polyurethane foam and method and resin for preparing the same. 4,654,375, 3-31-87, Cl. 521-107.000.

Malwitz, Nelson E., to Sealed Air Corporation. Fire-retardant plastics with glycoside additive. 4,680,324, 7-14-87, Cl. 524-58.000.

Maly, James E.: *See*—
Rispoli, Joseph M.; Sawyer, Harold A.; Tewey, Robert T.; Wyss, Clement R.; and Maly, James E., 4,689,239, Cl. 426-578.000.

Maly, Neil A.: *See*—
Hsu, Wen-Liang; and Maly, Neil A., 4,665,266, Cl. 585-606.000.
Hsu, Wen-Liang; and Maly, Neil A., 4,672,051, Cl. 502-159.000.

Maly, Rudolf: *See*—
Albrecht, Hans; and Maly, Rudolf, 4,658,185, Cl. 315-58.000.

Maly, Zdenek; and Hofling, Erich, to Swiss Aluminium Ltd. Process for coating sheared edges of metal can lids. 4,634,508, 1-6-87, Cl. 204-181.600.

Maly, Zdenek: *See*—
Hofling, Erich; and Maly, Zdenek, 4,703,187, Cl. 250-571.000.

Malyon, Brian R., to British Library Board, The. Copiers. 4,636,868, 1-13-87, Cl. 358-285.000.

Malyon, Brian R., to British Library Board, The. Photocopying device. 4,645,332, 2-24-87, Cl. 355-25.000.

Malyon, Brian R., to British Library Board, The. Book support. 4,655,478, 4-7-87, Cl. 281-45.000.

Malyon, Brian R., to British Library Board, The. Document copiers. 4,666,287, 5-19-87, Cl. 355-8.000.

Malzahn, Paul. Protective annular construction and method of manufacture. 4,683,691, 8-4-87, Cl. 52-167.000.

Malzkorn, Matthias, to Scharmann GmbH & Co. Horizontal drilling and milling machine. 4,638,550, 1-27-87, Cl. 29-568.000.

Malzkorn, Matthias, to Scharmann GmbH & Co. Control center for workpieces. 4,676,362, 6-30-87, Cl. 198-465.100.

Mama, Riichiro: *See*—
Kogure, Tomohiko; Hiraga, Tadayoshi; Mama, Riichiro; and Takasugi, Nobuhito, 4,649,975, Cl. 152-209.00R.

Mamada, Akira: *See*—
Yamasaki, Harumasa; Morii, Masayoshi; Yokota, Yukinaga; Mamada, Akira; and Nabata, Yoshiyuki, 4,714,719, Cl. 521-163.000.

Mamak, Z.: *See*—
Woo, Kenneth; and Mamak, Z., 4,696,449, Cl. 248-553.000.

Mamay, Daniel P.: *See*—
Steenblik, Richard A.; Phillips, Asa R.; Mamay, Daniel P.; Denson, Lawrence K.; Tucker, Richard A.; and Clark, Jimmy M., 4,685,718, Cl. 296-154.000.

Mamber, Stephen W.: *See*—
Bigge, Christopher F.; Elslager, Edward F.; French, James C.; Graham, Blanche D.; Hokanson, Gerard C.; Mamber, Stephen W.; Smitka, Tim A.; Tunac, Josefino B.; and Wilton, John H., 4,657,909, Cl. 514-249.000.

Mamish, Abboud L.: *See*—
DeCoste, Leonard D., Jr.; and Mamish, Abboud L., 4,705,715, Cl. 428-246.000.

Mamiya, Kiyotaka; Kaneko, Tadashi; Fujimoto, Misao; and Nishimura, Hirofumi, to Mazda Motor Corporation. Knock control system for supercharged engine. 4,646,522, 3-3-87, Cl. 60-602.000.

Mamiya, Kiyotaka; Terashita, Toshiyuki; Okazaki, Katsumi; and Nakazumi, Tadataka, to Mazda Motor Corporation. Air-to-fuel ratio control systems for internal combustion engines. 4,669,439, 6-2-87, Cl. 123-489.000.

Mamiya, Toshiharu; and Wakasa, Hiroyuki, to Canon Kabushiki Kaisha. Printed circuit board and electric circuit assembly. 4,677,530, 6-30-87, Cl. 361-414.000.

Mamiya, Toshiharu: *See*—
Watanabe, Yoshitaka; Mamiya, Toshiharu; Ishikawa, Tadashi; and Endo, Takashi, 4,698,650, Cl. 346-134.000.

Mamiya, Yasuhiro: *See*—
Takahashi, Yoshihiro; Abe, Hiraku; and Mamiya, Yasuhiro, 4,644,156, Cl. 250-231.0SE.

Mamizuka, Mitsuru: *See*—
Furuta, Hideya; Koizumi, Yutaka; Mamizuka, Mitsuru; and Sakai, Yoshihiro, 4,690,542, Cl. 355-4.000.
Koizumi, Yutaka; Furuta, Hideya; Sakai, Yoshihiro; Mamizuka, Mitsuru; Adachi, Tsukasa; Ikeda, Itsuo; and Sakai, Katsuo, 4,664,501, Cl. 355-4.000.
Sakai, Yoshihiro; Koizumi, Yutaka; Mamizuka, Mitsuru; and Furuta, Hideya, 4,662,739, Cl. 355-14.00R.

Mammach, Peter: *See*—
Kobale, Manfred; and Mammach, Peter, 4,663,564, Cl. 313-551.000.

Mammarella, James J., Sr., to Paramount Packaging. Flexo-gravure printing. 4,672,893, 6-16-87, Cl. 101-170.000.

Mammen, Abraham: *See*—
Maine, Stephen; Harrower, Duncan; and Mammen, Abraham, 4,700,181, Cl. 340-747.000.

Mammino, Joseph: *See*—
McAneney, T. Brian; Loutfy, Rafik O.; Mammino, Joseph; Nichol-Landry, Deborah J.; and Sypula, Donald S., 4,711,833, Cl. 430-131.000.

Mamolou, Charles A. Combined filter housing and extractor therefor. 4,676,396, 6-30-87, Cl. 221-36.000.

Mamont, Pierre: *See*—
Gerhart, Fritz; and Mamont, Pierre, 4,695,654, Cl. 564-510.000.

Mamot, Robert M.: *See*—
Ballard, Gary W.; and Mamot, Robert M., 4,638,942, Cl. 236-10.000.
Thompson, Kevin D.; Ballard, Gary W.; and Mamot, Robert M., 4,648,551, Cl. 236-49.000.

Mamouni, Ahmed: *See*—
Rochas, Jean-Francois; Lapoulle, Bertrand; Leroy, Yves; Mamouni, Ahmed; and Van de Velde, Jean-Claude, 4,650,345, Cl. 374-9.000.
Van de Velde, Jean-Claude; Leroy, Yves; and Mamouni, Ahmed, 4,659,982, Cl. 324-77.00G.

Man-B&W Diesel GmbH: *See*—
Appel, Manfred, 4,667,769, Cl. 181-229.000.

Man, Daniel. Implantable homing device. 4,706,689, 11-17-87, Cl. 128-903.000.

Man Design Co., Ltd.: *See*—
Takahashi, Shiro, 4,693,644, Cl. 408-204.000.

Man-Gill Chemical Company: *See*—
Claffey, William J.; and Reid, A. J., 4,650,526, Cl. 148-6.14R.
Claffey, William J.; and Reid, Alan J., 4,656,097, Cl. 428-457.000.

MAN Gutehoffnungshutte GmbH: *See*—
Dieban, Peter H.; and Ziller, Helmut, 4,633,625, Cl. 52-30.000.
Guido, Heinz, 4,700,355, Cl. 373-72.000.
Haacker, Heinz; and Wensing, Helmut, 4,711,297, Cl. 165-88.000.

Weissbacher, Georg, 4,704,066, Cl. 415-191.000.

MAN Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft: *See*—
Potel, Gerd; and Buchholz, Karl-Heinz, 4,638,742, Cl. 105-199.300.

Man-Mor Industries, Inc.: *See*—
Manning, Joseph H., 4,645,158, Cl. 248-343.000.

MAN Nutzfahrzeuge GmbH: *See*—
Henkel, Dietmar, 4,711,209, Cl. 123-300.000.

MAN-Roland Druckmaschinen Aktiengesellschaft: *See*—
Gollinger, Franz X.; and Hechler, Hatto, 4,646,639, Cl. 101-415.100.
Theilacker, Klaus, 4,646,638, Cl. 101-349.000.

Man Technologie GmbH: *See*—
Kreutmair, Josef, 4,706,464, Cl. 62-101.000.

Manabe, Akira: *See*—
Kuroishi, Nobuhito; Motooka, Naoki; Suganuma, Tetsuya; and Manabe, Akira, 4,671,491, Cl. 251-368.000.

Manabe, Akiyoshi: *See*—
Takamatsu, Masayoshi; Hashimoto, Kouji; Manabe, Akiyoshi; and Ichihana, Hideyuki, 4,678,845, Cl. 525-462.000.

Manabe, Katsuhide; and Ogisu, Yasuhiko, to Toyoda Gosei Co., Ltd. Plasma processing apparatus. 4,668,479, 5-26-87, Cl. 422-186.050.

Manabe, Seiichiro; Sawano, Tsutomu; and Saijo, Takemi, to Nippon Sheet Glass Co., Ltd. Method for producing glass bubbles. 4,693,739, 9-15-87, Cl. 65-21.400.

Manabe, Seiichiro: *See*—
Samejima, Hiroshi; Hoshino, Akira; and Manabe, Seiichiro, 4,652,293, Cl. 65-134.000.

Manabe, Sugio: *See*—
Galle, Kevin; Orimo, Ryoichi; Sakurada, Masahiko; Banno, Taichi; and Manabe, Sugio, 4,634,576, Cl. 422-102.000.
Sakurada, Masahiko; Manabe, Sugio; Okamura, Hideaki; and Gocho, Nagahiro, 4,636,360, Cl. 422-65.000.

Manabe, Tadashi: *See*—
Miyata, Shigeo; Iizima, Noriko; and Manabe, Tadashi, 4,642,193, Cl. 210-682.000.

Manabe, Takashi: *See*—
Ueda, Ikuo; Shiokawa, Youichi; and Manabe, Takashi, 4,673,676, Cl. 514-267.000.
Ueda, Ikuo; Shiokawa, Youichi; Manabe, Takashi; and Katsura, Yousuke, 4,675,324, Cl. 514-293.000.
Ueda, Ikuo; Shiokawa, Youichi; Manabe, Takashi; and Katsura, Yousuke, 4,692,444, Cl. 514-406.000.

Manabe, Tsuneo: *See*—
Kobayashi, Shigeyoshi; and Manabe, Tsuneo, 4,662,924, Cl. 65-66.000.
Kobayashi, Shigeyoshi; Manabe, Tsuneo; and Yanagisawa, Ichiro, 4,693,748, Cl. 106-35.000.

Manahan, Edward H.: *See*—
Masilamani, Divakaran; and Manahan, Edward H., 4,647,686, Cl. 558-315.000.

Manaka, Sumio: *See*—
Yahagi, Masakichi; Obitsu, Takeo; Igaki, Tetsuo; Horisawa, Kazuyuki; Nanbu, Morio; Kinoshita, Kimiaki; and Manaka, Sumio, 4,668,967, Cl. 346-221.000.

Manaka, Toshio; Atago, Takeshi; and Yamauchi, Teruo, to Hitachi, Ltd. Automobile fuel feed apparatus. 4,665,877, 5-19-87, Cl. 123-472.000.

Manalastas, Pacifico V.: *See*—
Duvdevani, Ilan; Manalastas, Pacifico V.; Drake, Evelyn N.; and Thaler, Warren A., 4,701,204, Cl. 71-28.000.

Manara, Giovanni: *See*—
Taramasso, Marco; Manara, Giovanni; Fattore, Vittorio; and Notari, Bruno, 4,656,016, Cl. 423-277.000.
Taramasso, Marco; Manara, Giovanni; Fattore, Vittorio; and Notari, Bruno, 4,666,692, Cl. 423-326.000.
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Manber, Solomon: *See*—
Chu, Mosi; Kress, Kenneth; and Manber, Solomon, 4,675,701, Cl. 346-76.0PH.

Manby, Alan P.: *See*—
Carter, George B.; and Manby, Alan P., 4,640,724, Cl. 149-109.600.
Carter, George B.; and Manby, Alan P., 4,676,164, Cl. 102-204.000.

Mance, Andrew A.: *See*—
Pugnale, Peter J.; and Mance, Andrew A., 4,676,093, Cl. 73-49.200.

Mance, Andrew M., to General Motors Corporation. UV-induced copper-catalyzed electroless deposition onto styrene-derivative polymer surface. 4,661,372, 4-28-87, Cl. 427-54.100.

Mance, Andrew M.: *See*—
Eesley, Gary L.; Mance, Andrew M.; and Meyer, Martin S., 4,637,862, Cl. 204-15.000.

Mancel, Gerard, to Electricite de France Service National. Steam generator feed water heater. 4,679,529, 7-14-87, Cl. 122-441.000.

Mancel, James D.; and Raiskums, Olaf B., to Rainbow Star Licensing S.A. Ornament production apparatus. 4,661,197, 4-28-87, Cl. 156-443.000.

Mancel, Patrick J. Device for spraying products, more especially, paints. 4,638,949, 1-27-87, Cl. 239-307.000.

Manchem Limited: *See*—
Holland, Frank S., 4,638,074, Cl. 556-98.000.
Tate, Philip E. R., 4,684,421, Cl. 156-124.000.

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Bell, James R., Jr., 4,643,528, Cl. 350-334.000.
Fergason, James L., 4,662,720, Cl. 350-339.00F.
Fergason, James L., 4,693,557, Cl. 350-331.00R.
Fergason, James L., 4,707,080, Cl. 350-334.000.

Mancinelli, Paul A., to Atlantic Richfield Company. Novel coupling agent for star-block copolymers. 4,640,958, 2-3-87, Cl. 525-193.000.

Mancinelli, Paul A., to Atlantic Richfield Company. Multilithium polymerization initiators. 4,678,837, 7-7-87, Cl. 525-250.000.

Mancini, Derek. Packaging machine. 4,704,844, 11-10-87, Cl. 53-453.000.

Mancini, Donato. Ski storage rack. 4,673,088, 6-16-87, Cl. 211-70.500.

Mancini, William D. Key holder construction. 4,656,853, 4-14-87, Cl. 70-456.00R.

Manco Corporation: *See*—
Pravda, Milton F., 4,640,344, Cl. 165-86.000.

Manco, Giuseppe: *See*—
Fossati, Giorgio; Terry, Harold; and Manco, Giuseppe, 4,674,527, Cl. 137-115.000.
Fossati, Giorgio; Terry, Harold; and Manco, Giuseppe, 4,700,748, Cl. 137-877.000.

Manco, Richard J.: *See*—
Deal, Gregory K.; and Manco, Richard J., 4,686,691, Cl. 377-54.000.

Mancuso, Jon R.; Fromknecht, Thomas G.; and White, Robert E., to Zurn Industries, Inc. Torque overload release clutch. 4,702,359, 10-27-87, Cl. 192-56.00R.

Manda R & D: *See*—
Manska, Wayne E., 4,691,979, Cl. 439-82.000.

Mandai, Haruhumi: *See*—
Imamura, Eiji; Kumokawa, Takashi; Nakayama, Fumio; Mandai, Haruhumi; Fukutani, Iwao; and Tomono, Kunisaburo, 4,698,605, Cl. 333-184.000.

Mandal, Arun K.; Jawalkar, Damodar G.; and Mahajan, Satish W., to IEL Limited. Process for the production of a (1R,Cis)-4 acetyl-6,6-dimethyl-3-oxabicyclo-(3.1.0.)-hex-2-one. 4,680,418, 7-14-87, Cl. 549-305.000.

Mandarano, Anthony L.; Mandarano, Frank; and Sistelli, Donna. Weight watchers novelty item. 4,647,510, 3-3-87, Cl. 428-542.200.

Mandarano, Frank: *See*—
Mandarano, Anthony L.; Mandarano, Frank; and Sistelli, Donna, 4,647,510, Cl. 428-542.200.

Mandel, Alan F.; Eichler, Kenneth M.; and Moore, William H., to Westinghouse Electric Corp. Elevator system with lamp failure monitoring. 4,646,058, 2-24-87, Cl. 187-100.000.

Mandel, Alan F.; Eichler, Kenneth M.; Trosky, William J.; and Moore, William H., to Westinghouse Electric Corp. Method of monitoring an elevator system. 4,698,780, 10-6-87, Cl. 364-550.000.

Mandel, Frederick S.: *See*—
Weston, Charles W.; and Mandel, Frederick S., 4,704,136, Cl. 48-197.00R.

Mandel, Sheldon W.: *See*—
Durrant, Oliver W.; Kakarala, Chandrasekhara R.; and Mandel, Sheldon W., 4,656,335, Cl. 219-271.000.
Durrant, Oliver W.; Kakarala, Chandrasekhara R.; and Mandel, Sheldon W., 4,674,285, Cl. 60-676.000.

Mandel, Shmuel: *See*—
Magaritz, Mordeckai; Goldenberg, Lior; Mandel, Shmuel; and Amiel, Abraham J., 4,647,259, Cl. 405-270.000.

Mandelcorn, Josh, to Pioneer Magnetics, Inc. Switched power supply of the forward converter type. 4,672,517, 6-9-87, Cl. 363-20.000.

Mandelcorn, Josh: *See*—
Wilkinson, Bruce L.; and Mandelcorn, Josh, 4,677,366, Cl. 323-222.000.

Mandelkorn, Joseph. Glass sealed silicon membrane solar cell. 4,673,770, 6-16-87, Cl. 136-259.000.

Mandello, Mark F., to United Technologies Corporation. Bi-directional coupler. 4,654,844, 3-31-87, Cl. 370-32.000.

Mandelman, Jack A.: *See*—
Kenney, Donald M.; and Mandelman, Jack A., 4,642,491, Cl. 307-571.000.

Manderla, Werner: *See*—
Hager, Juergen; Vieth, Walter; and Manderla, Werner, 4,638,697, Cl. 83-356.300.

Manders, Petrus G. J., to Rutti-Te Strake B.V. Method for conveying a flexible thread by means of a pressurized gas. 4,643,223, 2-17-87, Cl. 139-435.000.

Manders, Petrus G. J., to Gebruder Sulzer Aktiengesellschaft. Air jet weaving machine and weft insertion nozzle arrangement in such air jet weaving machine. 4,669,514, 6-2-87, Cl. 139-435.000.

Manders, Steven D.: *See*—
Shannon, Michael A.; and Manders, Steven D., 4,649,856, Cl. 118-712.000.

Mandet, Francois: *See*—
Boncoeur, Marcel; Mandet, Francois; and Palacio, Marc, 4,654,171, Cl. 252-626.000.

Mandet, Gerard M. F.; and Mouchel, Jacques H., to Societe Nationale d'Etude et de Construction de Moteur d'Aviation (S.N.E.C.M.A.). Device for varying the fluid passage area between adjacent turbine stator vanes. 4,664,594, 5-12-87, Cl. 415-148.000.

Mandeville, David C.; and Lazar, David W., to Kent-Moore Corporation. Mixing and dispensing gun. 4,643,336, 2-17-87, Cl. 222-145.000.

Mandeville, W. Harry: *See*—
Coffen, David L.; Holland, George W.; Mandeville, W. Harry; Rosen, Perry; and Wong, Frederick, 4,707,555, Cl. 549-311.000.

Mandhy Products B.V. Cuyk: *See*—
Koot, Hubertus H. M., 4,713,065, Cl. 604-329.000.
Mandi, Attila: *See*—
Bezzegh, Denes; Magyar, Karoly; Kelemen, Jozsef; Zalai, Gabor; Mandi, Attila; and Egri, Janos, 4,680,315, Cl. 514-738.000.
Mandigo, Frank N.; and Shapiro, Eugene, to Olin Corporation. Low cost connector alloy. 4,715,910, 12-29-87, Cl. 148-414.000.
Mandle, Robert J., to Ionics Incorporated. Isoelectric focusing apparatus. 4,673,483, 6-16-87, Cl. 204-301.000.
Mandle, Robert J.; and McRae, Wayne A., to Ionics, Incorporated. Renaturing reversibly denatured polypeptides and proteins by electrodialysis of solutions thereof in denaturants. 4,678,553, 7-7-87, Cl. 204-182.600.
Mandle, Robert J.: *See*—
Goldstein, Arthur L.; Haber, Edgar; and Mandle, Robert J., 4,661,224, Cl. 204-182.300.
Mandler, Roland, to Wilhelm Loh Wetzlar Optikmaschinen GmbH & Co. KG. Device for holding delicate workpieces, in particular optical lenses and other optical structural elements. 4,669,226, 6-2-87, Cl. 51-216.0LP.
Mandon, Jean-Pierre: *See*—
Joyaux, Yves; and Mandon, Jean-Pierre, 4,660,764, Cl. 239-44.000.
Mandrell, Robert: *See*—
Zollinger, Wendell D.; Boslego, John; Moran, Ellen; Brandt, Brenda; Collins, Hugh; Mandrell, Robert; Altieri, Patricia; and Berman, Sanford, 4,707,543, Cl. 530-402.000.
Manduley, Flavio; and Grisgraber, Edwin G., to Pitney Bowes Inc. Scale with processor controlled power switching. 4,649,490, 3-10-87, Cl. 364-466.000.
Manduley, Flavio, to Pitney Bowes Inc. Modular battery powered business systems. 4,649,491, 3-10-87, Cl. 364-464.000.
Manduley, Flavio, to Pitney Bowes Inc. General purpose processor module for mailroom equipment. 4,692,870, 9-8-87, Cl. 364-466.000.
Manduley, Flavio: *See*—
Sharpe, Murem S.; Bryson, Eugene; Manduley, Flavio; Riordan, Eben M., II; and Flesser, Brian D., 4,713,761, Cl. 364-406.000.
Mandy, Zoltan A., to Frick Company. Centrifugal and impingement oil separator. 4,690,759, 9-1-87, Cl. 210-304.000.
Mandy, Zoltan A.: *See*—
Stegmann, Rudolph; and Mandy, Zoltan A., 4,685,310, Cl. 62-217.000.
Manecci, John V.; and Pajer, Jerry D., to PGM, Inc. Energization indicator and method for heat trace cable and the like. 4,650,971, 3-17-87, Cl. 219-506.000.
Maneke, Siegfried; and Simon, Helmut, to Windmoller & Holscher. Method and apparatus for maintaining a glue applicator ready for operation. 4,704,308, 11-3-87, Cl. 427-207.100.
Maner, Asim: *See*—
Ehrfeld, Wolfgang; Hagmann, Peter; Maner, Asim; Munchmeyer, Dietrich; and Becker, Erwin, 4,661,212, Cl. 204-11.000.
Ehrfeld, Wolfgang; Maner, Asim; and Munchmeyer, Dietrich, 4,698,285, Cl. 430-5.000.
Manev, Vesselin G.: *See*—
Moshtev, Rafail V.; Manev, Vesselin G.; and Puresheva, Bogdana L., 4,697,950, Cl. 429-194.000.
Maney, George A.; O'Sullivan, Andrew W.; and Faraco, W. George, to ASYST Technologies. Sealed standard interface apparatus. 4,674,939, 6-23-87, Cl. 414-292.000.
Maney, Patrick: *See*—
Emory, Lyle J.; and Maney, Patrick, 4,645,127, Cl. 239-299.000.
Manfroni, Ezio, to Carpigiani Bruto Macchine Automatiche. Beater device for ice cream making machines. 4,698,984, 10-13-87, Cl. 62-343.000.
Manfroni, Ezio, to Carpigiani Bruto Macchine Automatiche. Dispensing piston-cock for ice cream making machines. 4,711,376, 12-8-87, Cl. 222-146.100.
Mang, Hermenegild; and Engel, Gunter, to AVL Gesellschaft fur Verbrennungskraftmaschinen und Messtechnik mbH Prof.Dr.Dr.h.c. Hans List. Process for producing crystals. 4,678,535, 7-7-87, Cl. 156-623.00R.
Mang, Paul; Joppe, Werner; and Schuch, Jorn, to Mania Elektronik Automatisation Entwicklung und Geratebau GmbH. Mechanically operable suction device for lifting and holding objects. 4,650,233, 3-17-87, Cl. 294-64.100.
Mang, Paul: *See*—
Driller, Hubert; and Mang, Paul, 4,674,006, Cl. 361-393.000.
Mang, Warren G.: *See*—
Giatras, James L.; Mang, Warren G.; Marino, Charles P.; Needling, Michael C.; and Pezdirtz, George F., 4,701,345, Cl. 427-45.100.
Mangan, Frank R.: *See*—
Thomson, Michael J.; and Mangan, Frank R., 4,661,524, Cl. 514-682.000.
Mangan, Jerry M., to Pangborn Corporation. Vanes for abrasive blasting wheels. 4,646,483, 3-3-87, Cl. 51-434.000.
Mangan, William P.: *See*—
Sensabaugh, Andrew J.; Mangan, William P.; and Marsh, Arvol C., 4,660,577, Cl. 131-352.000.
Manganese, Jean L. Steam cooking device. 4,649,811, 3-17-87, Cl. 99-417.000.
Manganese, Jean L. Steam cooking device. 4,702,160, 10-27-87, Cl. 99-417.000.
Mangar Aids Limited: *See*—
Garman, David E. T.; and Rimington, Richard M., 4,688,760, Cl. 254-93.0HP.
Mangat-Rai, John N.: *See*—
Massof, Robert W.; and Mangat-Rai, John N., 4,634,243, Cl. 351-243.000.
Mangel, Walter F.; Leytus, Stephen; and Melhado, L. Lee, to University of Illinois. Novel rhodamine derivatives as fluorogenic substrates for proteinases. 4,640,893, 2-3-87, Cl. 435-23.000.
Mangelsdorf, Wolfgang: *See*—
Schlichthorst, Norbert; and Mangelsdorf, Wolfgang, 4,660,492, Cl. 114-67.00A.
Mangenet, Gerard Y.; Perruc, Jean; and Vaerman, Jean F., to Societe Nationale d'Etude et de Construction de Meteur d'Aviation-"S.N.E.C.M.A." . Indicator for determining the sensitivity of a radiological defect testing device. 4,669,104, 5-26-87, Cl. 378-58.000.
Manges, Richlyn P. Reusable headband. 4,656,671, 4-14-87, Cl. 2-174.000.
Mangeym, Gennady: *See*—
Guzik, Nahum; Mangeym, Gennady; and Jones, James W., 4,680,516, Cl. 318-326.000.
Mangia, Alberto: *See*—
Villa, Carlo; Vecchiolino, Alvise P. G.; and Mangia, Alberto, 4,675,196, Cl. 426-271.000.
Mangiavacchi, Jacques, to Glaenzer Spicer. Sealing device for a universal joint. 4,710,150, 12-1-87, Cl. 464-14.000.
Mangin, Pierre: *See*—
Zimmerman, Huguette; Vincent, Jean; and Mangin, Pierre, 4,677,172, Cl. 526-159.000.
Mangler, Rolf: *See*—
Fleischer, Klaus; Gohler, Peter; Mangler, Rolf; Reuther, Christian; Schingnitz, Manfred; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Rodionov, Boris, 4,704,971, Cl. 110-264.000.
Gohler, Peter; Mangler, Rolf; Schingnitz, Manfred; Seidel, Wolfgang; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Gamburg, David, 4,710,202, Cl. 48-73.000.
Mangood Corporation: *See*—
Johnson, Bernard A., 4,667,757, Cl. 177-1.000.
Mangum, Owen A. Fish handle. 4,663,806, 5-12-87, Cl. 17-70.000.
Manhalter, Pavel: *See*—
Starek, Frantisek; Machacek, Vilem; and Manhalter, Pavel, 4,635,283, Cl. 378-132.000.
Manhart, Louise M. Display stand for items of jewelry. 4,671,415, 6-9-87, Cl. 211-13.000.
Manhart, Sigmnund: *See*—
Halldorsson, Thorsteinn; Manhart, Sigmnund; and Seiffarth, Ernst A., 4,674,874, Cl. 356-152.000.
Mani, Inder: *See*—
Small, Hamish; and Mani, Inder, 4,705,636, Cl. 210-638.000.
Mani, Krishnamurthy N.; and Chlanda, Frederick P., to Allied Corporation. Solution mining of sodium minerals with acids generated by electrodialytic water splitting. 4,636,289, 1-13-87, Cl. 204-182.400.
Mania, Dieter: *See*—
Englert, Heinrich C.; Lang, Hans-Jochen; Mania, Dieter; and Bickel, Martin, 4,661,636, Cl. 568-31.000.
Mania Elektronik Automatisation Entwicklung und Geratebau GmbH: *See*—
Driller, Hubert; and Mang, Paul, 4,674,006, Cl. 361-393.000.
Mang, Paul; Joppe, Werner; and Schuch, Jorn, 4,650,233, Cl. 294-64.100.
Maniar, Deepak R.: *See*—
Laing, John R.; Zimmer, C. D.; Maniar, Deepak R.; and Williams, Meurig W., 4,678,734, Cl. 430-137.000.
Manibs. R. Mannesmann GmbH. & ibs Nagel GmbH. & Co. KG: *See*—
Serve, Klaus, 4,693,499, Cl. 285-96.000.
Manica, Keith J.: *See*—
Heath, Gary B.; Palsulich, William G.; Manica, Keith J.; and Swan, Jack C., Jr., 4,666,598, Cl. 210-239.000.
Manickam, Janardhan: *See*—
Chance, Morrell S.; Jardin, Stephen C.; Stix, Thomas H.; Grimm, Ray C., deceased; Manickam, Janardhan; and Okabayashi, Michio, 4,654,184, Cl. 376-133.000.
Manifattura Armi Perazzi S.p.A.: *See*—
Perazzi, Daniele, 4,667,429, Cl. 42-69.010.
Manini, Benito: *See*—
Conti, Paolo; Conti, Gianni; Gariboldi, Franco; and Manini, Benito, 4,689,971, Cl. 66-25.000.
Manino, Pier Giuseppe: *See*—
Cantello, Maichi; and Manino, Pier Giuseppe, 4,684,780, Cl. 219-121.0LQ.
Manis, Paul A.; Martin, Eugene R.; and Muntz, Ronald L., to SWS Silicones Corporation. Stabilized organopolysiloxanes and a process for stabilizing the same. 4,644,074, 2-17-87, Cl. 556-401.000.
Manis, Paul A.; and Martin, Eugene R., to (SWC) Stauffer-Wacker Silicones Corporation. Preparing ester containing organosilicon compounds. 4,647,683, 3-3-87, Cl. 556-440.000.
Maniwa, Hideyo: *See*—
Ohtsuka, Masasuke; Harada, Yoshinori; Tokita, Shigeo; and Maniwa, Hideyo, 4,705,836, Cl. 526-318.100.
Manjarres, Jesus, to Compania Telefonica Nacional de Espana, S.A. Telecomputer package switching system. 4,649,534, 3-10-87, Cl. 370-60.000.
Manke, Kevin R., to Halliburton Company. Low pressure responsive tester valve with spring retaining means. 4,646,838, 3-3-87, Cl. 166-321.000.
Manke, Kevin R., to Halliburton Company. Downhole tool with compressible liquid spring chamber. 4,664,196, 5-12-87, Cl. 166-378.000.

Manke, Kevin R., to Halliburton Company. Downhole tool with gas energized compressible liquid spring. 4,665,991, 5-19-87, Cl. 166-373.000.

Mankedick, Robert G.; and Naseem, Syed, to NCR Corporation. Liquid crystal displays and method by which improved apparent viewing cones are attained therefor. 4,659,181, 4-21-87, Cl. 350-332.000.

Mankedick, Robert G.: *See*—
Barnes, Lawrence C.; and Mankedick, Robert G., 4,680,622, Cl. 358-22.000.

Mankey, Harry S.: *See*—
Oswald, Norman D.; Mankey, Harry S.; Dean, Robert R.; and Hudler, Dennis W., 4,685,527, Cl. 180-14.300.
Oswald, Norman D.; Mankey, Harry S.; Franklin, Carl M.; Wilhelm, James M.; and Osborn, Ronnie M., 4,702,843, Cl. 280-707.000.

Mankowski, John P. Roof ridge ventilator. 4,676,147, 6-30-87, Cl. 98-42.210.

Manku, Mehar S.: *See*—
Horrobin, David F.; Manku, Mehar S.; and Huang, Yung S., 4,666,701, Cl. 424-10.000.

Manley, George C.: *See*—
Rosen, Martin; and Manley, George C., 4,647,962, Cl. 358-78.000.

Manley, Inc.: *See*—
Feng, Chung L.; and Yang, Ching-Wen, 4,706,557, Cl. 99-355.000.

Manley, James R., Jr.: *See*—
Meguro, Jun-Ichi; McKisic, Kelvin O.; an ' Manley, James R., Jr., 4,677,372, Cl. 324-54.000.

Manley, Mark B.: *See*—
Kellie, Truman F.; Motz, Teresa M.; Manley, Mark B.; and Donaldson, Charles W., 4,659,221, Cl. 356-241.000.

Manley, Michael T.: *See*—
Meller, Bruce T.; Manley, Michael T.; and Stulberg, Bernard N., 4,696,308, Cl. 128-754.000.

Manley, Paul W., to G. D. Searle & Co. 6-(imidazolyphenyl)-4-iminopyrimidinones useful as hypotensive agents. 4,708,958, 11-24-87, Cl. 514-274.000.

Manley, Roger E. W.: *See*—
Thorp, Peter; and Manley, Roger E. W., 4,635,629, Cl. 128-202.260.

Manly, Kenneth F.: *See*—
Anderson, Garth R.; Manly, Kenneth F.; and Mittelman, Arnold, 4,654,301, Cl. 435-26.000.

Manmoto, Shinzo; and Iwasaki, Yasutaka, to Mayekawa Mfg. Co.; and Livestock Facilities Modernizing Lease Foundation. Method of boning a dark meat of a chicken by a belt-shaped cutter and apparatus for implementing the method. 4,669,150, 6-2-87, Cl. 17-46.000.

Mann, Arnold: *See*—
Kern, Eckhart; Weingartner, Reiner; Ruschek, Gerhard; Mann, Arnold; and Schlick, Horst, 4,688,723, Cl. 239-391.000.

Mann, David O., to Mann Technology Limited Partnership. Apparatus and method for treating air from a turbocharger. 4,708,120, 11-24-87, Cl. 123-563.000.

Mann, Derek, to Dobson Park Industries, Plc. Apparatus for the oral administration of capsules to animals. 4,637,816, 1-20-87, Cl. 504-62.000.

Mann, Edward D.: *See*—
Whipple, David L.; and Mann, Edward D., 4,716,545, Cl. 364-900.000.

Mann, Egon; and Bach, Hans-Peter, to Zahnradfabrik Friedrichshafen AG. Hydrostatic drive specially for mixing drums of ready-mixed concrete vehicles. 4,651,526, 3-24-87, Cl. 60-456.000.

Mann, Egon: *See*—
Ehrlinger, Friedrich; and Mann, Egon, 4,667,536, Cl. 74-720.000.

Mann, George Z.: *See*—
Brown, Charles W.; and Mann, George Z., 4,652,207, Cl. 415-90.000.

Mann, Harold E., III: *See*—
Forbes, Ronald L.; Lund, John A.; and Mann, Harold E., III, 4,654,705, Cl. 380-19.000.

Mann, James A., Jr.: *See*—
Ditterline, Andrew F., Jr.; and Mann, James A., Jr., 4,662,617, Cl. 269-16.000.

Mann, Joe A.: *See*—
Sanders, John H.; Hoblit, Louis D.; and Mann, Joe A., 4,716,055, Cl. 427-304.000.

Mann, John P.; Levenstein, Victor M.; and Fox, Charles H., to Dresser Industries, Inc. Method and apparatus for mining machine cutter head. 4,648,660, 3-10-87, Cl. 299-10.000.

Mann, Joseph M.; and Spitler, James A., to Navistar International Corporation. Electrically heated fuel pick-up assembly for vehicle fuel tanks. 4,684,786, 8-4-87, Cl. 219-297.000.

Mann, Joy L.: *See*—
Lucash, Jeffrey S.; and Mann, Joy L., 4,651,146, Cl. 340-721.000.

Mann, Karlheinz: *See*—
Edelmann, Hermann; Pasch, Manfred; Mann, Karlheinz; Sattler, Stephan; and Haar, Hans-Peter, 4,676,952, Cl. 422-72.000.

Mann, Max; and Kapps, Manfred, to Bergwerksverband GmbH; and Bayer Aktiengesellschaft. Method of strengthening geological formations. 4,715,746, 12-29-87, Cl. 405-264.000.

Mann, Reginald. Separation of gaseous mixtures. 4,666,480, 5-19-87, Cl. 62-11.000.

Mann, Samuel J., to Inverness Corporation. Artificial fingernail tip. 4,671,305, 6-9-87, Cl. 132-73.000.

Mann, Steven L. Compound resource recovery furnace. 4,715,299, 12-29-87, Cl. 110-235.000.

Mann, Tarlochan S.: *See*—
Pollack, Jack; and Mann, Tarlochan S., 4,647,076, Cl. 285-95.000.

Mann Technology Limited Partnership: *See*—
Mann, David O., 4,708,120, Cl. 123-563.000.

Mann, Theo: *See*—
Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,634,672, Cl. 435-182.000.
Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,681,851, Cl. 435-262.000.

Mann, Toni. Method and apparatus for covering a bed. 4,703,529, 11-3-87, Cl. 5-494.000.

Mann, William B.; and Domingos, Dennis A. Retractable king pin vehicle. 4,657,274, 4-14-87, Cl. 280-433.000.

Mann, Yale; and Sarssi, Pekka. Vehicle protection device. 4,691,801, 9-8-87, Cl. 180-287.000.

Manner, Ernst: *See*—
Lindenmeier, Heinz; Manner, Ernst; and Flachenecker, Gerhard, 4,653,116, Cl. 455-205.000.

Manner, James A., to PPG Industries, Inc. Method for converting organic chloroformate to the corresponding organic chloride. 4,714,785, 12-22-87, Cl. 568-614.000.

Manner, Reinhard: *See*—
Ginter, Herbert; Klingel, Reinhard; and Manner, Reinhard, 4,680,043, Cl. 65-2.000.

Manners, Herbert C.: *See*—
Amundson, Frank M.; Manners, Herbert C.; and Jeffries, Paul M., 4,663,995, Cl. 81-45.000.

Mannesmann AG: *See*—
Babsch, Alfred; Beth, Dieter; Panzer, Werner; and Stempfle, Johann, 4,673,810, Cl. 250-231.0SE.
Bollerhey, Rolf, 4,681,607, Cl. 55-284.000.
Brudereck, Ulrich; and Gabriel, Klaus-Dieter, 4,702,175, Cl. 105-154.000.
Dietrich, Udo; and Hasselmann, Heinz, 4,653,407, Cl. 105-148.000.
Ehlert, Klaus-Peter; and Kubon, Achim, 4,660,621, Cl. 164-461.000.
Elbracht, Kurt, 4,702,010, Cl. 33-178.00F.
Euler, Horst; Meyer, Hans-Joachim; and Pleschiutschnigg, Fritz-Peter, 4,658,884, Cl. 164-443.000.
Fauerbach, Rudolf; and Partz, Karl-Erich, 4,663,868, Cl. 37-190.000.
Frommann, Klaus; Skoda, Ulrich; and Meyer, Peter, 4,698,897, Cl. 29-527.700.
Frommann, Klaus, 4,710,240, Cl. 148-156.000.
Gugel, Bernd; Niebel, Harald; Ott, Hubert; Heisele, Horst; Kitzberger, Herbert; and Seybold, Wolfgang, 4,674,179, Cl. 29-602.00R.
Hasselmann, Heinz; Muenzebrock, Anton; and Pfannkuche, Heinz, 4,700,024, Cl. 191-45.00A.
Hauslaib, Wolfgang, 4,671,441, Cl. 226-110.000.
Hauslaib, Wolfgang, 4,707,157, Cl. 400-616.000.
Heidemann, Wolfgang, 4,708,328, Cl. 266-281.000.
Herre, Emil; Herre, Gerd; Zimmer, Guenter; and Cepin, Hermann, 4,702,461, Cl. 266-216.000.
Jahns, Werner, 4,703,844, Cl. 198-367.000.
Kaufmann, Karl-Ernst; Saeftel, Josef-Paul; Bitsch, Harald; and Oldewurtel, Otto, 4,634,078, Cl. 242-158.00R.
Keutgen, Franz; Kubon, Achim; Perings, Dieter; Stadler, Peter; Voss-Spilker, Peter; and Apel, Karl-Hermann, 4,714,105, Cl. 164-420.000.
Kubon, Achim; and Voss-Spilker, Peter, 4,714,106, Cl. 164-484.000.
Langlitz, Karlheinz; and Schmitz, Guenter, 4,660,809, Cl. 266-246.000.
Langlitz, Karlheinz; and Schnitz, Guenter, 4,700,929, Cl. 266-246.000.
Monheim, Peter; and Stadtfeld, Gerhard, 4,702,303, Cl. 164-491.000.
Reichelt, Wolfgang; Voss-Spilker, Peter; Feuerstacke, Ewald; and Schwarz, Klaus, 4,703,789, Cl. 164-154.000.
Rode, Wilhelm, 4,635,531, Cl. 91-303.000.
Roether, Kurt, 4,710,245, Cl. 148-12.400.
Sebastian, Wilhelm; Nickel, Wilhelm; and Schirmag, Klaus-Peter, 4,638,655, Cl. 72-208.000.
Spoeler, Johannes-Gerhard; and Janssen, Heinz-Uwe, 4,706,782, Cl. 187-20.000.
Spoler, Johannes G.; and Grapentin, Manfred, 4,646,647, Cl. 104-111.000.
Stueke, Walter, 4,685,985, Cl. 156-185.000.
Sturm, Hans, 4,702,099, Cl. 72-366.000.
Wiedenhoff, Wolfgang; Gaertner, Adolf W.; Vogt, Gert; and Weisgerber, Claus, 4,682,632, Cl. 138-178.000.

Mannesmann Aktiengesellschaft: *See*—
Bardenheuer, Friedrich, 4,661,317, Cl. 420-434.000.
Behnke, Klaus; and Munzenbrock, Anton, 4,698,565, Cl. 318-318.000.
Bottger, Wolfgang; Schneider, Heinz; and Weingarten, Willi, 4,646,572, Cl. 73-602.000.
Bungeroth, Herbert; and Wessel, Otto, 4,697,631, Cl. 164-46.000.
Ehlert, Klaus-Peter; Kubon, Achim; and Voss-Spilker, Peter, 4,633,934, Cl. 164-484.000.
Gruner, Manfred, 4,701,685, Cl. 318-309.000.
Gugel, Bernd; Niebel, Harald; and Ott, Hubert, 4,695,174, Cl. 400-124.000.
Halene, Clemens, 4,667,815, Cl. 206-0.700.
Hauslaib, Wolfgang, 4,643,603, Cl. 400-616.100.
Koeller, Walter, 4,685,509, Cl. 165-47.000.
Koenig, Heribert; and Stark, Heinz, 4,653,067, Cl. 373-101.000.

Lehmann, Peter, 4,677,865, Cl. 73-866.500.
Lohrmann, Gerhard; and Roehrer, Kurt, 4,650,358, Cl. 400-616.200.
Lohrmann, Gerhard, 4,652,160, Cl. 400-616.200.
Nordmeyer, Friedrich; Schunk, Eckard; Winter, Frank; and Jackson, Clive L., 4,646,318, Cl. 373-105.000.
Pischzik, Bruno, 4,682,752, Cl. 248-550.000.
Schaller, Hans-Ludwig, 4,662,526, Cl. 212-166.000.
Soltysiak, Peter, 4,681,294, Cl. 248-613.000.
Wamser, Karl, 4,634,104, Cl. 266-158.000.
Wamser, Karl, 4,648,584, Cl. 266-158.000.
Wysk, Hans-Joachim; Stellmach, Dieter; Nolte, Bernhard; Gronwald, Gerd; and Maedge, Werner, 4,701,063, Cl. 400-621.000.

Mannesmann Demag Corporation: *See*—
Polick, Raymond L.; Tamburrino, Kenneth D.; and Becker, Edmund H., 4,714,103, Cl. 164-486.000.

Mannesmann Demag Kunststofftechnik: *See*—
Fruntzek, Peter, 4,702,685, Cl. 425-182.000.

Mannesmann, Gerda: *See*—
Skuballa, Werner; Raduchel, Bernd; Vorbruggen, Helmut; Mannesmann, Gerda; Losert, Wolfgang; and Casals-Stenzel, Jorge, 4,692,464, Cl. 514-530.000.

Mannesmann Kienzle GmbH: *See*—
Dyma, Horst; and Heindke, Armin, 4,692,041, Cl. 400-82.000.
Gorner, Horst; Furstwangler, Walter; and Usbeck, Walter, 4,695,048, Cl. 271-122.000.
Kelch, Heinz, 4,648,634, Cl. 285-356.000.

Mannesmann Rexroth GmbH: *See*—
Bartholomaus, Reiner, 4,699,571, Cl. 417-213.000.
Bartholomaus, Reiner; and Widmann, Karlheinz, 4,709,619, Cl. 92-130.00D.
Dantlgraber, Jorg, 4,634,354, Cl. 418-31.000.
Dantlgraber, Jorg, 4,665,697, Cl. 60-418.000.
Dantlgraber, Jorg, 4,674,956, Cl. 417-220.000.
Dantlgraber, Jorg, 4,678,412, Cl. 418-26.000.
Dantlgraber, Jorg; Budel, Josef; and Rub, Josef, 4,697,990, Cl. 417-204.000.
Dantlgraber, Jorg, 4,697,996, Cl. 418-31.000.
Fertig, Gunter, 4,705,069, Cl. 137-596.000.
Gossl, Dietmar; Muncke, Ludwig; and Wittich, Kurt, 4,706,545, Cl. 91-32.000.
Hartwig, Manfred; and Rausch, Georg, 4,682,756, Cl. 251-63.500.
Hartwig, Manfred, 4,687,177, Cl. 251-25.000.
Hein, Theo, 4,689,956, Cl. 60-449.000.
Hochsattel, Siegmar-J., 4,646,518, Cl. 60-413.000.
Imhof, Rainer, 4,643,225, Cl. 137-596.170.
Kauss, Wolfgang; Mucheyer, Norbert; and Wittich, Kurt, 4,667,744, Cl. 172-2.000.
Kauss, Wolfgang, 4,679,633, Cl. 172-1.000.
Kauss, Wolfgang; and Mucheyer, Norbert, 4,712,375, Cl. 60-405.000.
Kreth, Norbert; Buttner, Peter; and Mucheyer, Norbert, 4,665,939, Cl. 137-101.000.
Kreth, Norbert; and Buttner, Peter, 4,669,363, Cl. 91-516.000.
Kreth, Norbert; Buttner, Peter; and Stellwagen, Armin, 4,698,600, Cl. 137-596.000.
Lembke, Herbert, 4,682,063, Cl. 310-29.000.
Reinhardt, Peter; Nikolaus, Heinrich; and Metzner, Frank, 4,688,380, Cl. 60-420.000.
Rott, Horst, 4,694,862, Cl. 137-625.500.
Scherer, Manfred, 4,665,968, Cl. 164-360.000.
Schmitz, Jurgen, 4,712,470, Cl. 91-433.000.
Schulte, Heinz; and Mucheyer, Norbert, 4,677,899, Cl. 91-403.000.
Wittich, Kurt, 4,652,059, Cl. 303-89.000.
Wittich, Kurt, 4,683,909, Cl. 137-505.110.
Wusthof, Peter; and Cunningham, Sinclair, 4,704,948, Cl. 92-58.000.

Mannesmann Tally GmbH: *See*—
Puchegger, Karl, 4,686,899, Cl. 101-93.040.

Mannhardt, Karl: *See*—
Kleinschroth, Jorgen; Satzinger, Gerhard; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; Weinheimer, Gonter; and Fritschi, Edgar, 4,681,882, Cl. 514-258.000.
Kleinschroth, Jurgen; Satzinger, Gerhard; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; Weinheimer, Gunter; and Fritschi, Edgar, 4,677,108, Cl. 514-258.000.
Kleinschroth, Jurgen; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; and Wagner, Bernd, 4,681,881, Cl. 514-258.000.
Kleinschroth, Jurgen; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; and Wagner, Bernd, 4,681,885, Cl. 514-258.000.
Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Kleinschroth, Jurgen; Herrmann, Manfred; Fritschi, Edgar; Tauschel, Horst-Dietmar; Wagner, Bernd; and Wolf, Gunter, 4,698,341, Cl. 514-230.000.
Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Kleinschroth, Jurgen; Osswald, Hartmut; Weinheimer, Gunter; and Fritschi, Edgar, 4,711,901, Cl. 514-300.000.

Mannhart, Also: *See*—
Jungwirth, Dieter; and Mannhart, Also, 4,640,068, Cl. 52-223.00L.

Mannherz, Elmer D.; Schmoock, Roy F.; and Shauger, Herbert A., to Fischer & Porter Company. Electromagnetic flowmeter with triangular flux drive. 4,704,907, 11-10-87, Cl. 73-861.170.

Manninen, Markku; and Halme, Aarne, to Valtion Teknillinen Tutkimuskeskus. Method and apparatus for outlining the environment of a multiarticular duty machine by means of a laser pointer. 4,685,054, 8-4-87, Cl. 364-191.000.

Manning, David J., to General DataComm, Inc. Bit interleaved multiplexer system providing byte synchronization for communicating apparatuses. 4,710,920, 12-1-87, Cl. 370-100.000.

Manning, David T., to Union Carbide Corporation. Certain pyrazinyl 1,3 cycloalkanedione derivatives having herbicidal activity. 4,678,501, 7-7-87, Cl. 71-92.000.

Manning, Donald L.; and Hood, Delos W., to Transpec Inc. Vehicle entrance ramp. 4,685,858, 8-11-87, Cl. 414-537.000.

Manning, Donald L., to Transpec Inc. Energy absorbing vehicle bumper. 4,715,630, 12-29-87, Cl. 293-120.000.

Manning, Edward T., Jr.: *See*—
Binzen, Willard; Insana, Samuel P.; Manning, Edward T., Jr.; and Muhoray, Cornel, 4,655,401, Cl. 241-69.000.

Manning, Frank E.: *See*—
Durkee, Darryl L.; and Manning, Frank E., 4,697,601, Cl. 128-777.000.

Manning, George C. Mechanical digger toy. 4,712,968, 12-15-87, Cl. 414-694.000.

Manning, James H.; and Dunkerly, Cedric A., II, to James River Corporation. Scrim reinforced, cloth-like composite laminate and a method of making. 4,634,621, 1-6-87, Cl. 428-110.000.

Manning, James H.; and Sorenson, Wayne P., to James River Corporation. Scrim reinforced, flat cloth-like composite laminate and a method of making. 4,637,949, 1-20-87, Cl. 428-110.000.

Manning, Jarue S.; and Poli, Giorgio, to University of California, The Regents of the. Vaccine for bluetongue disease employing platinum compounds. 4,645,666, 2-24-87, Cl. 424-89.000.

Manning, Joseph H., to Man-Mor Industries, Inc. Ceiling fan mounting apparatus. 4,645,158, 2-24-87, Cl. 248-343.000.

Manning, Maurice; and Sawyer, Wilbur H., to Medical College of Ohio; and Columbia University, The Trustees of, a part interest. Novel derivatives of arginine vasopressin antagonists. 4,649,130, 3-10-87, Cl. 514-11.000.

Manning, Maurice; and Sawyer, Wilbur H., to Medical College of Ohio; and Columbia University, Trustees of, a part interest. Novel derivatives of arginine vasopressin antagonists. 4,714,696, 12-22-87, Cl. 514-11.000.

Manning, Richard J.: *See*—
Greasley, Michael J.; and Manning, Richard J., 4,702,183, Cl. 112-38.000.

Manning, Robert E.; and Lloyd, Wallis A., to Cannon Instrument Company. High-temperature, high-shear capillary viscometer. 4,658,636, 4-21-87, Cl. 73-55.000.

Manning, Steven F.; Perkins, Jimmie G.; and Heling, Dennis H., to Ex-Cell-O Corporation. Switch and valve assembly. 4,633,763, 1-6-87, Cl. 91-530.000.

Manning, Steven F.: *See*—
Horvath, Zoltan L.; Kavanagh, Gary A.; Manning, Steven F.; Pyszel, Ronald J.; Rogers, Lloyd W.; and Schlaps, Edgar H., 4,707,027, Cl. 297-284.000.

Manning, Thomas J.; Ritzert, Jack L.; Blouin, Joseph D.; and Mowinski, Josephine A. Hose coupling. 4,690,435, 9-1-87, Cl. 285-256.000.

Mannington Mills, Inc.: *See*—
Wiley, John W.; Brower, Charles H.; and Wang, David, 4,675,212, Cl. 427-244.000.

Mannino, Anthony, Jr., to Borg-Warner Corporation. Friction disc with segmented core plate and facings. 4,674,616, 6-23-87, Cl. 192-107.00R.

Mannino, Raphael J.; and Fogerite, Susan G. Liposome methods and compositions. 4,663,161, 5-5-87, Cl. 424-89.000.

Mannion, Catharine: *See*—
Nelsen, Charles E.; and Mannion, Catharine, 4,701,326, Cl. 424-408.000.

Mannle, Erik; and Bauer, Peter-Josef, to Robert Bosch GmbH. Potentiometer. 4,706,062, 11-10-87, Cl. 338-172.000.

Mannle, Erik: *See*—
Bauer, Peter-Josef; Mannle, Erik; Rapp, Kurt; Schemel, Hans-Peter; and Schmidt, Lothar, 4,655,180, Cl. 123-361.000.

Manno, Eugene J., to Xerox Corporation. Toner supply cartridge and dispensing system for reproduction and printing machines. 4,688,926, 8-25-87, Cl. 355-3.0DD.

Manno, Eugene J., to Xerox Corporation. Developer system for reproduction and printing machines. 4,690,540, 9-1-87, Cl. 355-3.0DD.

Manno, John L.: *See*—
Gallo, Frank G.; Swenson, Clark E.; Bencloski, William A.; Cassette, Angelo J.; Manno, John L.; and Parlak, Edward A., 4,716,010, Cl. 376-260.000.

Manns, James M.: *See*—
Porcello, Sam J.; Manns, James M.; Player, Kenneth W.; and Wilson, Lonny L., 4,711,788, Cl. 426-94.000.

Manns, Michael C.; and Roberts, Terry E., to Roman Products, Inc. Holder for container for liquid. 4,681,239, 7-21-87, Cl. 220-408.000.

Mannschke, Lothar, to U.S. Philips Corporation. Arrangement for locating faults in an optical information transmission system. 4,660,973, 4-28-87, Cl. 356-73.100.

Mannucci, Emanuela: *See*—
De Regis, Massimo; and Mannucci, Emanuela, 4,698,354, Cl. 514-357.000.

Mannuss, Siegfried: *See*—
Essig, Willi; and Mannuss, Siegfried, 4,704,595, Cl. 337-107.000.
Essig, Willi; Mayer, Hans; and Mannuss, Siegfried, 4,713,502, Cl. 200-61.820.

Mano, Eiichi: *See*—
Nakagawa, Susumu; Ushijima, Ryosuke; Nakano, Fumio; Yamada, Koji; and Mano, Eiichi, 4,677,100, Cl. 514-202.000.
Mano, Hiroshi, to Sumitom Electric Industries, Ltd. Porous structure of polytetrafluoroethylene and process for production thereof. 4,713,070, 12-15-87, Cl. 623-1.000.
Mano, Seiji: *See*—
Katagi, Takashi; Mano, Seiji; and Chiba, Isamu, 4,644,359, Cl. 342-379.000.
Mano, Tsuneo: *See*—
Matsumura, Tsuneo; Mano, Tsuneo; Yamada, Junzo; and Inoue, Junichi, 4,694,428, Cl. 365-189.000.
Manojlovic, Vladimir. Process for water purification, and a filter for carrying out the process. 4,684,471, 8-4-87, Cl. 210-665.000.
Manola, Umberto, to Protein's Technology S.p.A., The. Device for separation of the components of edible meals. 4,680,107, 7-14-87, Cl. 209-139.200.
Manoly, Arthur E., to Hughes Aircraft Company. Method for securing a slow-wave structure in enveloping structure with crimped spacers. 4,712,293, 12-15-87, Cl. 29-600.000.
Manon, C. Dodd: *See*—
Ahearn, John E.; Frates, Raymond A.; Girard, Dennis; Koepke, Richard A.; Schmidt, James K.; and Manon, C. Dodd, 4,716,082, Cl. 428-428.000.
Manon, Gerard. Glass element, notably glass block or tile. 4,648,226, 3-10-87, Cl. 52-308.000.
Manor, Dan. Radar warning receiver. 4,700,191, 10-13-87, Cl. 342-13.000.
Manor, Gedalyahu, to Technion Research & Development Foundation Ltd. Agricultural transport system. 4,704,851, 11-10-87, Cl. 56-328.0TS.
Manos, Dennis M.: *See*—
Motley, Robert W.; Manos, Dennis M.; Langer, William D.; and Cohen, Samuel A., 4,662,977, Cl. 156-345.000.
Manoukian, Nubar: *See*—
Hennings, David; and Manoukian, Nubar, 4,711,526, Cl. 350-170.000.
Manoury, Philippe; Binet, Jean; and Dewitte, Elisabeth, to Synthelabo. Piperidine derivatives and pharmaceutical compositions containing them. 4,680,296, 7-14-87, Cl. 514-259.000.
Manoury, Philippe; Obitz, Daniel; and Peynot, Michel, to Synthelabo. Certain 5-nitro-2-furyl derivatives of pyridylpropenoic acid hydrazides which are useful in treating bacterial, fungal, protozoal, parasitic and intestinal infections. 4,711,892, 12-8-87, Cl. 514-336.000.
Manresa, Inc.: *See*—
Vaillancourt, Vincent L., 4,652,256, Cl. 604-52.000.
Vaillancourt, Vincent L., 4,655,750, Cl. 604-165.000.
Vaillancourt, Vincent L., 4,704,177, Cl. 156-226.000.
Manring, Lewis E.; and Mazur, Stephen, to Du Pont de Nemours, E. I., and Company. Metal interlayers in films by counter-current diffusion. 4,692,360, 9-8-87, Cl. 427-443.100.
Mans, Rusty J., to University of Florida. ATP: polynucleotide adenylyltransferase enzyme and method of preparation thereof. 4,695,550, 9-22-87, Cl. 435-194.000.
Manschitz, Erwin; Gartner, Karl-Heinz; Hunger, Josef; Spieth, Manfred; Moser, Hans-Karl; and Murdle, Jurgen, to Hilti Aktiengesellschaft. Drill chuck for a hand-held device. 4,655,464, 4-7-87, Cl. 279-64.000.
Mansell, Raymond T.: *See*—
Vella, Claude J.; and Mansell, Raymond T., 4,634,131, Cl. 273-192.000.
Manser, Gerald E., and Fletcher, Richard W., to Morton Thiokol, Inc. Nitramine oxetanes and polyethers formed therefrom. 4,707,540, 11-17-87, Cl. 528-417.000.
Manservisi, Renato; and Fossi, Mario, to SASIB S.p.A. Method for obtaining a wrapper sheet for a cigarette pack. 4,702,730, 10-27-87, Cl. 493-56.000.
Manseth, Robert A. Method and apparatus for aerially transporting loads. 4,640,474, 2-3-87, Cl. 244-31.000.
Mansfield, Bruce M.: *See*—
Weisshaar, Bernhard P.; Kolnick, Frank C.; Kun, Andrew L.; and Mansfield, Bruce M., 4,694,396, Cl. 364-300.000.
Mansfield, Michael R. Exercise apparatus for use with video game. 4,711,447, 12-8-87, Cl. 272-73.000.
Mansfield, Peter W. System and method for increased efficiency of screw presses. 4,644,861, 2-24-87, Cl. 100-37.000.
Mansfield, Peter W. Roof shingle laying machine. 4,656,808, 4-14-87, Cl. 52-749.000.
Mansfield, Peter W. Grid system and method for cast forming monolithic concrete roof covering. 4,696,451, 9-29-87, Cl. 249-16.000.
Mansfield, Robert J., to Polaroid Corporation. Process and apparatus for forming optical fiber preform. 4,682,994, 7-28-87, Cl. 65-3.120.
Mansfield, Robert J., to Polaroid Corporation. Method for forming doped optical preforms. 4,689,212, 8-25-87, Cl. 427-34.000.
Mansfield Scientific, Inc.: *See*—
Pope, J. Lee, Jr.; and Resden, Ronald E., 4,715,378, Cl. 128-344.000.
Mansi, William A.: *See*—
Kinsley, Ann M.; and Mansi, William A., 4,679,369, Cl. 52-155.000.
Mansikkamaki, Aino: *See*—
Lehmussaari, Antti; and Mansikkamaki, Aino, 4,675,296, Cl. 435-188.000.
Manska, Wayne E., to Manda R & D. Compliant press-fit electrical contact. 4,691,979, 9-8-87, Cl. 439-82.000.
Manska, Wayne E.: *See*—
Elson, Edward E.; Bolwell, Farley W.; Manska, Wayne E.; and Shoffner, Stanley G., 4,643,389, Cl. 251-10.000.
Mansmann, Jeffrey G.; and McEntarfer, Philip W., to Motorola, Inc. High voltage MOS SCR and power MOSFET "H" switch circuit for a DC motor. 4,649,326, 3-10-87, Cl. 318-293.000.
Mansmann, Jeffrey G., to Motorola, Inc. MOSFET "H" switch with current sensing. 4,654,568, 3-31-87, Cl. 318-293.000.
Mansmann, Jeffrey G.: *See*—
Fay, Gary; Mansmann, Jeffrey G.; and Wellnitz, Keith M., 4,667,121, Cl. 307-580.000.
Fay, Gary; Mansmann, Jeffrey G.; and Wellnitz, Keith M., 4,703,390, Cl. 361-101.000.
Manso, Elvio: *See*—
Forgo, Imre; Manso, Elvio; Gruber, Urs; and Huwyler, Rene, 4,666,954, Cl. 522-83.000.
Manson, Donald C.: *See*—
Stevenson, Alexander J.; Ross, Gordon A.; and Manson, Donald C., 4,675,551, Cl. 307-443.000.
Manson, Kenneth G.: *See*—
Birnel, Donald A.; and Manson, Kenneth G., 4,656,755, Cl. 33-526.000.
Manson, Marcel: *See*—
Chastanet, Bernard; Decailloz, Claude; Dournel, Solange; and Manson, Marcel, 4,636,606, Cl. 219-121.0LC.
Mansour, James D., to Becton, Dickinson and Company. Fluorescent gram stain. 4,665,024, 5-12-87, Cl. 435-34.000.
Mansour, James D.; Schulte, Thomas H.; and Neece, Vernon R., to Becton, Dickinson and Company. Composition and method for rapid detection of microorganisms in clinical samples. 4,693,972, 9-15-87, Cl. 435-34.000.
Mansouri, Masoud N.: *See*—
Mansouris, Mansour N.; Mansouri, Masoud N.; and Imani, Kambiz, 4,648,141, Cl. 5-8.000.
Mansouris, Mansour N.; Mansouri, Masoud N.; and Imani, Kambiz. Power operated separable beds and platform. 4,648,141, 3-10-87, Cl. 5-8.000.
Manspeaker, Edward L. Balance game. 4,640,509, 2-3-87, Cl. 273-1.0GF.
Mansson, Martin: *See*—
Brannstrom, Roine; and Mansson, Martin, 4,655,147, Cl. 110-263.000.
Mansson, Ragnar: *See*—
Broberg, Arne; and Mansson, Ragnar, 4,671,926, Cl. 376-364.000.
Manstrom, Hilding, to Luossavaara-Kiirunavaara AB. Pivotal bridge plate between laterally tiltable dumping wagon bodies. 4,688,489, 8-25-87, Cl. 105-279.000.
Mansueto, John: *See*—
Tung, Chenshi J.; and Mansueto, John, 4,636,900, Cl. 360-124.000.
Mansur, Paul G. Container for golf accessories. 4,687,096, 8-18-87, Cl. 206-315.900.
Mansuria, Mohanlal S., Meinert, Rolf G.; Oktay, Sevgin; and Ostergren, Carl D., to International Business Machines Corporation. Single chip thermal tester. 4,696,578, 9-29-87, Cl. 374-45.000.
Mant, Derrick M.: *See*—
Kirkland, Karin M.; and Mant, Derrick M., 4,683,228, Cl. 514-211.000.
Mantegani, Sergio: *See*—
Bernardi, Luigi; Temperilli, Aldemio; Mantegani, Sergio; Traquandi, Gabriella; and Salvati, Patricia, 4,657,914, Cl. 514-288.000.
Bernardi, Luigi; Chiodini, Laura; Mantegani, Sergio; Ruggieri, Daniela; Temperilli, Aldemio; and Salvati, Patricia, 4,690,929, Cl. 514-288.000.
Mantello, Ralph, to Power Conversion Inc. Safety vent device for electrochemical cells. 4,698,282, 10-6-87, Cl. 429-56.000.
Manteufel, Dale: *See*—
Schlapman, William J.; Wirsbinski, James L.; and Manteufel, Dale, 4,662,646, Cl. 280-462.000.
Manteufel, Rolf P. C. Apparatus for the exchange of material and/or heat between and/or for mixing of gaseous and/or liquid substances. 4,701,287, 10-20-87, Cl. 261-81.000.
Mantey, Paul-Gerhard: *See*—
Brotzmann, Karl; and Mantey, Paul-Gerhard, 4,673,167, Cl. 266-281.000.
Manthe, Karl-Heinz: *See*—
Preuss, Bernhard; and Manthe, Karl-Heinz, 4,649,247, Cl. 200-244.000.
Manthey, Joseph W.: *See*—
Alexandrovich, Peter S.; Manthey, Joseph W.; May, John W.; and Sreekumar, Chandra, 4,681,828, Cl. 430-97.000.
Mantlik, Konrad, to Grote & Hartmann GmbH & Co. KG. Locking arrangement for electrical contact element insertable into housing chamber. 4,660,915, 4-28-87, Cl. 339-61.00R.
Mantovani, John C.; Denny, Hugh W.; and Warren, Walter B., to United States of America, Air Force. Apparatus for locating passive intermodulation interference sources. 4,648,124, 3-3-87, Cl. 455-67.000.
Mantovani, Lucio: *See*—
Bellini, Omero; Mantovani, Lucio; and Menini, Giulio, 4,676,282, Cl. 141-1.000.
Mantovani, Marisa: *See*—
Prino, Giuseppe; Mantovani, Marisa; and Niada, Riccardo, 4,693,995, Cl. 514-44.000.

Manttari, Risto: *See—*
Rautakorpi, Paavo; Manttari, Risto; Liimatainen, Heikki; Pernu, Heikki; Tuomainen, Heikki; and Rusanen, Hannu, 4,708,011, Cl. 73-63.000.

Mantyla, Jim. Flexible closure for resealing containers. 4,709,832, 12-1-87, Cl. 220-306.000.

Mantymaki, Tarmo K., to Outokumpu Oy. Deoxidation of molten copper. 4,699,656, 10-13-87, Cl. 75-76.000.

Manuel, John L., to Allred, Gary. Universal trap. 4,700,412, 10-20-87, Cl. 4-207.000.

Manuel, Thomas E.: *See—*
DeKlotz, Joseph E.; Manuel, Thomas E.; and Palmer, David A., 4,648,028, Cl. 364-188.000.

Manufacturas de Acero y Caucho S.A.: *See—*
Garcia-Mansilla Ripoll, Javier, 4,663,907, Cl. 52-230.000.

Manufacture Belge de Gembloux S.A.: *See—*
Hennebert, Pierre; Gillard, Jean; and Roland, Michel, 4,637,916, Cl. 422-36.000.

Manufacture d'Appareillage Electrique de Cahors: *See—*
Bourrieres, Pierre, 4,701,577, Cl. 174-45.00R.

Manufacture de Rougement: *See—*
de Roure, Olivier P. R., 4,637,516, Cl. 206-471.000.
De Roure Olivier, Pierre R., 4,643,305, Cl. 206-388.000.

Manufacture Landaise de Produits Chimiques: *See—*
Alicot, Michel, 4,647,669, Cl. 548-177.000.

Manukian, Artashes R.: *See—*
Mkhikian, Robert M.; Shaginian, Suren G.; Markarian, Temur G.; Khaidukov, Georgy K.; Velidzhanian, Sofia V.; Manukian, Artashes R.; Karapetian, Artur K.; Kazarian, Aram V.; and Airapetian, Robert R., 4,708,628, Cl. 425-406.000.

Manuli Autoadesivi S.p.A.: *See—*
Galli, Graziano, 4,699,816, Cl. 428-40.000.

Manunta, Giorgio, to Carello Industriale S.P.A. Front optical unit for motor vehicles. 4,660,129, 4-21-87, Cl. 362-80.000.

Manutair Moller: *See—*
Couarc'h, Michel F. E.; Bessouat, Roger; Lafaye, Marc R. R.; and Bernet, Robert R. E., 4,648,329, Cl. 110-245.000.

Manville Corporation: *See—*
Eastman, Robert J.; and Tandy, Mark P., 4,682,540, Cl. 101-32.000.
Hernandez, Kenneth J., 4,681,217, Cl. 206-141.000.
Jada, Sivananda S., 4,636,440, Cl. 428-446.000.
Jada, Sivananda S.; and Hucks, Robert T., Jr., 4,671,990, Cl. 428-266.000.
Jenkins, Kenneth L.; Suhaka, Stanley C.; Dolin, Rick L.; LaRoche, Allan R.; Hodgson, Robert E.; Such, Neil R.; Smith, Douglas D.; Newton, Frank R.; and Cunningham, Richard N., 4,634,622, Cl. 428-143.000.
Kiedaisch, Randall A., 4,705,208, Cl. 229-120.080.
LaRoche, Allan R.; Butcher, Robert A.; Kelleher, Denis M.; Corriveau, Marcel L. M.; and Dubuc, Jean A., 4,663,894, Cl. 52-15.000.
Olsen, Peter C., Jr.; Conforto, Peter M.; Wolf, David L.; and Hudson, Donald R., 4,693,055, Cl. 53-443.000.
Olsen, Peter C., Jr.; Conforto, Peter M.; Craighead, Jimmy R.; and Wolf, David L., 4,709,538, Cl. 53-566.000.
Rossi, Nicholas J.; and Gaburo, Edward B., 4,664,969, Cl. 428-284.000.
Sadler, Thomas H., 4,692,128, Cl. 474-8.000.
Schuster, Richard L., 4,712,728, Cl. 229-52.00B.
Smith, Henry D., Jr.; Arterburn, Russell D.; and Miller, John H., 4,692,178, Cl. 65-2.000.
Walters, Robert B., 4,659,381, Cl. 106-18.160.
Wilson, Jerry F., 4,702,375, Cl. 206-434.000.
Wilson, Jerry F., 4,706,876, Cl. 229-52.00B.

Manville Sales Corporation: *See—*
Gill, Frederick A.; and Tocci, Mario P., 4,637,951, Cl. 428-215.000.
Schuster, Richard L., 4,646,917, Cl. 206-434.000.
Wilson, Jerry F.; and Schuster, Richard L., 4,637,515, Cl. 206-434.000.
Wilson, Jerry F., 4,679,725, Cl. 229-40.000.
Wilson, Jerry F., 4,685,566, Cl. 206-429.000.

Manville Service Corporation: *See—*
Fowler, Samuel R., 4,634,460, Cl. 65-1.000.
Gill, Frederick A.; and Tocci, Mario P., 4,681,798, Cl. 428-215.000.
Smith, William H., 4,673,594, Cl. 427-196.000.

Manville, Steven B.: *See—*
Moe, Lael A.; and Manville, Steven B., 4,703,855, Cl. 206-427.000.

Manz, Kenneth W.: *See—*
Lower, Ralph C.; Manz, Kenneth W.; and Murray, Gary P., 4,688,388, Cl. 62-126.000.

Manzaroli, Giovanni V.: *See—*
Andre, Jean-Daniel; Grossi, Pierre-Jean; Heymes, Alain; and Manzaroli, Giovanni V., 4,675,419, Cl. 549-79.000.
Andre, Jean-Daniel; Grossi, Pierre-Jean; Heymes, Alain; and Manzaroli, Giovanni V., 4,713,485, Cl. 562-470.000.

Manzelli, Giorgio. Modular element particularly for false ceilings, partition surfaces and non-structural walls. 4,715,158, 12-29-87, Cl. 52-581.000.

Manzer, Jimmie L., to Sun-Diamond Growers of California. Shell sorter. 4,666,046, 5-19-87, Cl. 209-599.000.

Manzinger Papierwerke KG: *See—*
Frank, Helmut, 4,641,360, Cl. 383-15.000.

Manzke, Klaus; Weis, Hans-Joachim; and Soehring, Gerhard, to BASF Aktiengesellschaft. Disk drive unit comprising a head positioning device and electromagnetic releasing/arresting means therefor. 4,660,120, 4-21-87, Cl. 360-137.000.

Manzke, Klaus; Schneider, Richard; and Kohl, Lambert, to BASF Aktiengesellschaft. Plural-disk rotatable disk memory with air circulation system. 4,680,656, 7-14-87, Cl. 360-98.000.

Manzoni-Bouchot: *See—*
Manzoni, Stephane, 4,645,164, Cl. 248-475.100.
Manzoni, Stephane, 4,674,013, Cl. 362-66.000.
Manzoni, Stephane, 4,705,368, Cl. 350-632.000.

Manzoni, Stephane, to Manzoni-Bouchot. Support for fitting and locking a mirror support on an adjustable member of a vehicle rearview mirror. 4,645,164, 2-24-87, Cl. 248-475.100.

Manzoni, Stephane, to Manzoni-Bouchot. Device for adjusting the position of vehicle headlamps. 4,674,013, 6-16-87, Cl. 362-66.000.

Manzoni, Stephane, to Manzoni-Bouchot. Anti-vibration device for vehicle rearview mirror. 4,705,368, 11-10-87, Cl. 350-632.000.

Mao, Cheng-How; and Schreiner, Max, Jr., to Mobil Oil Corporation. Method for feeding an MTG conversion reactor. 4,665,249, 5-12-87, Cl. 585-408.000.

Mao, Chung-Ling, to Air Products and Chemicals, Inc. Nonwoven binder emulsions of vinyl acetate/ethylene copolymers having improved solvent resistance. 4,698,384, 10-6-87, Cl. 524-458.000.

Mao, Chung-Ling: *See—*
Goldstein, Joel E.; and Mao, Chung-Ling, 4,647,611, Cl. 524-458.000.

Mao, Jen-I: *See—*
Alford, Bernadette L.; Mao, Jen-I; Moir, Donald T.; Taunton-Rigby, Alison; and Vovis, Gerald F., 4,666,847, Cl. 435-253.000.
Botstein, David; Davis, Ronald W.; Fink, Gerald R.; Taunton-Rigby, Alison; Knowlton, Robert G.; Mao, Jen-i; Moir, Donald T.; and Goff, Christopher G., 4,661,454, Cl. 435-256.000.

Mao, Mark H. K.: *See—*
Bernardino, Lowell W.; Kuhl, Edward W.; Mao, Mark H. K.; and Pancheri, Eugene J., 4,681,704, Cl. 252-546.000.

Mao, Nai-Hsien, to United States of America, Energy. Shear wave transducer for stress measurements in boreholes. 4,641,520, 2-10-87, Cl. 73-151.000.

Map Mikrofilm Apparatebau: *See—*
Poehler, Hermann, 4,660,722, Cl. 206-454.000.

MAP Mikrofilm Apparatebau Dr. Poehler GmbH & Co KG: *See—*
Poehler, Hermann; and Dziemba, Peter, 4,653,744, Cl. 271-264.000.

MAP Mikrofilm Apparatebau Dr. Poehler GmbH & Co. KG: *See—*
Dziemba, Peter; and Wenderoth, Karl, 4,699,372, Cl. 271-251.000.
Poehler, Hermann; and Dziemba, Peter, 4,666,272, Cl. 353-25.000.
Poehler, Hermann, 4,687,166, Cl. 248-279.000.

Mapes, Scott D.: *See—*
Magnuson, Douglas; Wolff, Merle; Lev, Sam; Jeffries, Kenneth; and Mapes, Scott D., 4,670,214, Cl. 419-3.000.

Maple, Ralph E.; Redd, George L.; and Meurer, Donald W., to Merichem Company. Process for regenerating an alkaline stream containing mercaptan compounds. 4,666,689, 5-19-87, Cl. 423-183.000.

Maple, Ralph E.; and Suarez, Felipe J., to Merichem Company. Treatment of sour hydrocarbon distillate. 4,675,100, 6-23-87, Cl. 208-203.000.

Maples, Vance H.; and Eastman, George A., to Boeing Aerospace Company. Radar scene simulator. 4,660,041, 4-21-87, Cl. 342-170.000.

Mapletoft, Reuben J.: *See—*
Silversides, David W.; Mapletoft, Reuben J.; Murphy, Bruce D.; and Misra, Vikram, 4,676,981, Cl. 424-85.000.

Mapro Inc.: *See—*
Kopernicky, Jaro, 4,636,084, Cl. 366-76.000.
Kopernicky, Jaro, 4,636,085, Cl. 366-76.000.

Maquinas NPU Ltda.: *See—*
dos Santos Copia, Carlos R., 4,692,134, Cl. 493-196.000.

Mar-Chaim, Yechiam: *See—*
Gran, Paul; Feiner, Haim; Ben-Dayan, Nissim; Stefaniu, Marian; and Mar-Chaim, Yechiam, 4,638,453, Cl. 364-900.000.

Mar, Dav, to Dionex Corporation. Fluid sample delivery apparatus. 4,644,807, 2-24-87, Cl. 73-864.620.

Mar, Eugene J.: *See—*
Chau, Ngaiman; Wu, John W.; Yang, Neng-Tze; and Mar, Eugene J., 4,658,158, Cl. 307-530.000.

Mar-Sal Machine Co., Inc.: *See—*
Picciuto, Salvatore, 4,679,605, Cl. 144-117.00R.

Mar, Shih-Lin; and Kuo, Long-Cho. Babyler folding baby stroller for multiple uses. 4,641,844, 2-10-87, Cl. 280-30.000.

Mara, Richard M.: *See—*
Cronson, Harry M.; and Mara, Richard M., 4,688,042, Cl. 342-19.000.

Marabini, Anna: *See—*
Bertini, Vincenzo; Marabini, Anna; De Munno, Angela; Barbaro, Maria; and Pocci, Marco, 4,698,171, Cl. 252-60.000.

Marabotto, Eduardo J.; and Bresin, Mark S., to Motorola, Inc. RF interconnect with triaxial self-alignment. 4,690,471, 9-1-87, Cl. 439-63.000.

Marabotto, Eduardo J.; Bresin, Mark S.; and Drake, Bick R., to Motorola, Inc. Electrical connector. 4,714,439, 12-22-87, Cl. 439-627.000.

Marabuwerke Erwin Martz GmbH & Co: *See—*
Brecht, Gerhard; and Sackmann, Dieter, 4,682,822, Cl. 303-20.000.

Marach, David R.: *See—*
Miller, Robert A.; and Marach, David R., 4,685,028, Cl. 361-334.000.

Marais, Jean-Luc: *See—*
Lombard, Claude; Brisset, Jean-Paul; Catier, Gerard; Marais, Jean-Luc; and Zammarchi, Gino, 4,682,104, Cl. 324-208.000.
Lombard, Claude; Brisset, Jean-Paul; Marais, Jean-Luc; and Catier, Gerard, 4,702,208, Cl. 123-339.000.

Marancik, William G., and Hong, Seung-Ok, to Oxford Superconducting Technology. Method of fabricating multifilament intermetallic superconductor. 4,646,428, 3-3-87, Cl. 29-599.000.
Marandet, Andre J. P.; and Dancygier, Gerard R. W., to Labavia S.G.E. Eddy current retarders. 4,668,886, 5-26-87, Cl. 310-93.000.
Marante, Adilson P.: *See*—
Ladeira, Newton C.; De Oliveria, Paulo R. M.; Marante, Adilson P.; and Krepel, Pedro A., 4,649,033, Cl. 423-242.000.
Maranzana, Giorgio: *See*—
Marraccini, Antonio; Carlini, Filippo M.; Bottaccio, Giorgio; Pasquale, Antonio; and Maranzana, Giorgio, 4,655,843, Cl. 106-308.00B.
Marason, Gabriel, Jr.; and Templeton, James S., to Mattel, Inc. Child's activity ring toy. 4,655,723, 4-7-87, Cl. 446-241.000.
Marass, Josef, to George Spiess GmbH. She t feeding apparatus with mechanical pile retraction. 4,703,924, 11-3-87, Cl. 271-9.000.
Marathon Corporation: *See*—
Fenner, Gordon H.; and Brown, Ronald L., 4,643,087, Cl. 100-35.000.
Marathon Engineers/Architects/Planners: *See*—
Krause, Ronald O., 4,646,796, Cl. 141-234.000.
Marathon Oil Company: *See*—
Argabright, Perry A.; and Rhudy, John S., 4,687,586, Cl. 252-8.551.
Barree, Robert D., 4,679,421, Cl. 73-38.000.
Falk, David O., 4,688,639, Cl. 166-295.000.
Gibbons, David L., 4,679,625, Cl. 166-270.000.
Gibbons, David L., 4,693,310, Cl. 166-270.000.
Johnson, Irvin D., 4,644,263, Cl. 324-65.00P.
Jones, Stanley C., 4,643,019, Cl. 73-38.000.
Jones, Stanley C., 4,649,737, Cl. 73-38.000.
Jones, Stanley C., 4,660,413, Cl. 73-54.000.
Luetzelschwab, Wayne E., 4,633,947, Cl. 166-252.000.
Luetzelschwab, Wayne E., 4,661,538, Cl. 523-348.000.
Luetzelschwab, Wayne E., 4,679,628, Cl. 166-252.000.
Plummer, Mark A., 4,707,264, Cl. 210-634.000.
Sengul, M. Marc; and Hinchman, Steven B., 4,694,904, Cl. 166-252.000.
Smith, Ronald E., 4,706,754, Cl. 166-295.000.
Sydansk, Robert D., 4,673,040, Cl. 166-305.100.
Sydansk, Robert D.; and Argabright, Perry A., 4,683,949, Cl. 166-270.000.
Tackett, James E., 4,708,205, Cl. 166-273.000.
Wruck, Paul D.; and Ryan, Adrian J., 4,702,321, Cl. 241-15.000.
Maraven, S.A.: *See*—
Hernandez, Gabriel D., 4,637,458, Cl. 166-68.000.
Maravetz, Lester L., to FMC Corporation. Herbicidal 1-aryl-delta2-1,2,4-triazolin-5-ones. 4,702,763, 10-27-87, Cl. 71-90.000.
Maravetz, Lester L., to FMC Corporation. Herbicidal 1-aryl-Δ^2-1,2,4-triazolin-5-ones and sulfur analogs thereof. 4,705,557, 11-10-87, Cl. 71-92.000.
Marazas, Gerald A.: *See*—
Dixon, Jerry D.; Farrell, Robert H.; Marazas, Gerald A.; McNeill, Andrew B., Jr.; and Merckel, Gerald U., 4,637,024, Cl. 371-67.000.
Marazzi, Donata: *See*—
Cadossi, Ruggero; and Marazzi, Donata, 4,683,873, Cl. 128-1.500.
Marbet, Hans, to Hasler AG Bern. Method for the transmission of characters by means of the code combinations of a telegraph alphabet. 4,649,231, 3-10-87, Cl. 178-2.00B.
Marbetech Corporation: *See*—
Dick, Franklin A., 4,694,685, Cl. 73-104.000.
Marbot, Roland; and Polonovski, Jean-Pierre, to Centre National de la Recherche Scientifique. High speed analog digital converter of the dichotomizing type. 4,675,651, 6-23-87, Cl. 340-347.0AD.
Marburg, Stephen; Tolman, Richard L.; and Kniskern, Peter J., to Merck & Co., Inc. Covalently-modified polyanionic bacterial polysaccharides, stable covalent conjugates of such polysaccharides and immunogenic proteins with bigeneric spacers, and methods of preparing such polysaccharides and conjugates and of confirming covalency. 4,695,624, 9-22-87, Cl. 530-395.000.
Marcaccioli, Enzo: *See*—
Clementini, Luciano; Camprincoli, Pierpaolo; Marcaccioli, Enzo; and Gemmi, Alfredo, 4,671,986, Cl. 428-216.000.
Marcade, Roque D.; Thurlow, Sandra S.; Bookout, Donald W.; and Tershak, Andrew T., to Whirlpool Corporation. Temperature set point control for a refrigerator. 4,646,521, 3-3-87, Cl. 62-127.000.
Marcal Paper Mills, Inc.: *See*—
Burt, John T., 4,671,983, Cl. 428-179.000.
Marcantonio, Gabriel, to Northern Telecom Limited. Integrated circuit chip package. 4,710,798, 12-1-87, Cl. 357-80.000.
Marcato, Federico: *See*—
Invernizzi, Renzo; and Marcato, Federico, 4,663,404, Cl. 526-114.000.
Marceau, Ippolito. Toilet paper dispenser. 4,667,846, 5-26-87, Cl. 221-34.000.
Marcel, Herzig: *See*—
Stefan, Ammann; and Marcel, Herzig, 4,699,180, Cl. 139-1.00R.
Marcel Zublin: *See*—
Reichlin, Anton; and Zublin, Marcel, 4,656,351, Cl. 250-221.000.
Marcelli, Ezio: *See*—
Macchiarulo, Vincenzo; and Marcelli, Ezio, 4,696,665, Cl. 474-153.000.
Marcellin, Michel, to Framatome & Cie. Process and apparatus for control of the heat transfer produced in a fluidized bed. 4,674,560, 6-23-87, Cl. 165-1.000.
Marcellin, Michel: *See*—
Morin, Jean-Xavier; and Marcellin, Michel, 4,684,375, Cl. 48-197.00R.
Marcellus, Leland D. Creosote cutter mounting bracket assembly. 4,638,524, 1-27-87, Cl. 15-249.000.
March, Carl J.: *See*—
Hopp, Thomas P.; Bektesh, Susan L.; Conlon, Paul J., III; and March, Carl J., 4,703,004, Cl. 435-68.000.
Urdal, David L.; March, Carl J.; Mochizuki, Diane Y.; and Conlon, Paul J., III, 4,658,018, Cl. 530-351.000.
March, Roger W.: *See*—
Bernstein, David H.; Buckley, Edward M.; March, Roger W.; and Gusowski, Ronald I., deceased, 4,649,470, Cl. 364-200.000.
Marchaj, Tadeusz J.: *See*—
Bush, Bill R.; Tripp, Andrew, Jr.; and Marchaj, Tadeusz J., 4,659,033, Cl. 242-7.210.
Marchal, Philippe; and Koenig, Andre, to ARAP-Applications Rationnelles de la Physique. High peripheral speed wheel for a centrifugal compressor including fiber loaded scoops and a method of making such a wheel. 4,676,722, 6-30-87, Cl. 416-188.000.
Marchal, Philippe: *See*—
Argy, Gilles; Grapin, Michel M.; and Marchal, Philippe, 4,660,861, Cl. 285-45.000.
Marchal, Ronald L. Apparatus and method for automatically making a duplicate key. 4,666,351, 5-19-87, Cl. 409-84.000.
Marchand, Bernard; and Gargouil, Yves M., to Adir et Compagnie. Beta-blocking thiochroman derivatives, compositions and method of use therefor. 4,703,057, 10-27-87, Cl. 514-432.000.
Marchand, Denis, to Societe dite: SOGEA. Method and apparatus for reducing acid pollutants in smoke. 4,704,972, 11-10-87, Cl. 110-345.000.
Marchand, Gary R.: *See*—
Fuentes, Ricardo, Jr.; Marchand, Gary R.; and Meiske, Larry A., 4,661,465, Cl. 502-111.000.
Marchand, Gerard: *See*—
Blanc, Michel; Pollard, Jean; Marchand, Gerard; and Henri, Rene, 4,697,867, Cl. 350-96.100.
Marchand, Gilles: *See*—
Jeffrey, Paul W.; and Marchand, Gilles, 4,637,842, Cl. 148-12.70A.
Marchand, Maurice: *See*—
Carof, Alain; and Marchand, Maurice, 4,647,930, Cl. 342-6.000.
Marchand, Michel: *See*—
Jurczyszyn, Michel; and Marchand, Michel, 4,701,013, Cl. 350-96.200.
Marchand, Patrick, to Jeumont-Schneider Corporation. Generator capable of producing multiple signals with different frequencies and a transmitter which includes a signal generator of this kind. 4,680,586, 7-14-87, Cl. 340-870.260.
Marchand, Pierre: *See*—
Hooper, Anthony W.; Cormack, Alexander D.; and Marchand, Pierre, 4,642,015, Cl. 414-325.000.
Marchand, Sam: *See*—
Bays, F. Barry; Dunn, Richard L.; Marchand, Sam; and Treharne, Richard W., III, 4,650,488, Cl. 623-12.000.
Marchand, William C. Motor and brake control for a multi-stage turbine engine. 4,688,663, 8-25-87, Cl. 192-4.00C.
Marchant, Alan B., to Eastman Kodak Company. Flux sensitive tracking. 4,652,945, 3-24-87, Cl. 360-77.000.
Marchant, Christopher E.: *See*—
Chen, Young K.; Dening, David C.; Marchant, Christopher E.; and Nati, Salvatore F., Jr., 4,661,801, Cl. 340-347.0DD.
Marchant, Robert L.: *See*—
Dalebout, William T.; Vassoughi, Sohrab; Martinell, William J.; Rohrer, David C.; Martinell, Steven W.; and Marchant, Robert L., 4,684,126, Cl. 272-134.000.
Marche, Pierre, to U.S. Philips Corporation. Device for the detection and elimination of unwanted images created by the pyramidal IR dome. 4,681,282, 7-21-87, Cl. 244-3.160.
Marchegiano, Joseph E.; and Baran, Anthony S., to RCA Corporation. System and method for measuring energy transmission through a moving aperture pattern. 4,641,256, 2-3-87, Cl. 364-525.000.
Marchesano, Carlo, to Minnesota Mining and Manufacturing Company. Process for high contrast development of photographic elements. 4,693,956, 9-15-87, Cl. 430-264.000.
Marchesi, Franco, to Rockwell-Rimoldi S.p.A. Upper looper provided with a hole and used for making an overedge stitch with three threads in sewing machines. 4,641,592, 2-10-87, Cl. 112-162.000.
Marchesi, Franco, to Rockwell-Rimoldi S.p.A. Structure of an upper hook provided with a hole and used in sewing machines for making overedge stitches. 4,681,047, 7-21-87, Cl. 112-162.000.
Marchesi, Franco, to Rockwell-Rimoldi S.p.A. Looper for sewing machines. 4,685,406, 8-11-87, Cl. 112-199.000.
Marchesi, Sergio; and Fachin, Gino, to Vianini Industria S.p.A. Method of manufacturing reinforced concrete pipe having an evenly distributed steel wire reinforcement. 4,633,568, 1-6-87, Cl. 29-452.000.
Marchesi, Sergio; and Fachin, Gino, to Vianini Industria S.p.A. Reinforced conventional concrete pipe having an evenly distributed steel wire reinforcement. 4,702,282, 10-27-87, Cl. 138-176.000.
Marchesi, Vincent T.: *See*—
Knowles, William J.; Marchesi, Vincent T.; and Haigh, Wallace, 4,647,654, Cl. 530-326.000.
Knowles, William J.; and Marchesi, Vincent T., 4,658,022, Cl. 530-402.000.
Marchesini, Sisto, to ICU Intercommerz Union S.A. Folding chair. 4,693,510, 9-15-87, Cl. 297-39.000.

Marchetti, Augusto. Machine for closing the top end flaps of boxes having folding flaps. 4,642,966, 2-17-87, Cl. 53-374.000.
Marchetti, Augusto. Taping unit positioning system for cardboard box closing machine. 4,643,707, 2-17-87, Cl. 493-117.000.
Marchetti, Augusto. Machine for sealing cardboard boxes of constant height. 4,653,247, 3-31-87, Cl. 53-137.000.
Marchetti, Augusto. Device for cutting and setting a free end of adhesive tape in a predetermined position on an applicator roller, particularly for cardboard box sealing machine taping units. 4,671,440, 6-9-87, Cl. 225-72.000.
Marchetti, Augusto. Accident prevention device for motorized-belt pulling units for cardboard box taping machines. 4,685,269, 8-11-87, Cl. 53-167.000.
Marchetti, Augusto. Machine for sealing cardboard boxes of constant width. 4,694,635, 9-22-87, Cl. 53-137.000.
Marchetti, Augusto. Device for closing the top sideflaps of box having folding flaps. 4,698,950, 10-13-87, Cl. 53-374.000.
Marchetti, Joseph R.; and Sanjana, Zal N., to Westinghouse Electric Corp. Compatible self-crosslinking poly (amide-imide) polyepoxide resin blends and laminates made therewith. 4,675,350, 6-23-87, Cl. 523-414.000.
Marchi, Marc R.: *See*—
Le Maout, Theophile F.; Marchi, Marc R.; and Ollivier, Andre F., 4,668,167, Cl. 416-95.000.
Marchini, Timothy R.: *See*—
Brandt, Henry R.; Gannon, Patrick M.; Leung, Wai L.; and Marchini, Timothy R., 4,695,950, Cl. 364-200.000.
Marchio, Fabio; and Menniti, Pietro, to SGS Microelettronica S.p.A. Electronic voltage regulating device with compensation for thermal dissipation, particularly for alternators. 4,694,239, 9-15-87, Cl. 323-285.000.
Marchio, Fabio;; and Menniti, Pietro, to SGS Microelettronica S.p.A. Antisaturation circuit for integrated PNP transistor. 4,701,638, 10-20-87, Cl. 307-300.000.
Marchio, Fabio: *See*—
Menniti, Pietro; and Marchio, Fabio, 4,695,786, Cl. 323-303.000.
Marchioni, Barbara K. Greaseless cooker for food items. 4,662,273, 5-5-87, Cl. 99-426.000.
Marchionni, Giuseppe; and Viola, Gian T., to Montedison S.p.A. Photochemical process for neutralizing perfluoropolyethers. 4,664,766, 5-12-87, Cl. 204-157.920.
Marchionni, Giuseppe; and Viola, Gian T., to Montedison S.p.A. Method of preparing perfluoropolyethers having regulated molecular weight from the product obtained by photochemical oxidation. 4,668,357, 5-26-87, Cl. 204-157.920.
Marchionni, Giuseppe; Tonelli, Claudio; and Nicoletti, Alberto, to Ausimont S.p.A. Process for the fluorination in liquid phase of unsaturated compounds. 4,684,452, 8-4-87, Cl. 204-157.940.
Marchisi, Giuseppe; and De Martiis, Carlo C., to SGS-ATES Componenti Elettronici S.p.A. Single-in-line integrated electronic component. 4,649,460, 3-10-87, Cl. 361-386.000.
Marchisi, Giuseppe; and Cognetti De Martiis, Carlo, to SGS-ATES Componenti Elettronici S.p.A. Process for making single-in-line integrated electronic component. 4,711,023, 12-8-87, Cl. 29-827.000.
Marchisio, Aldo; and Beccaris, Carlo, to Valeo. Torsional damper device. 4,690,659, 9-1-87, Cl. 464-68.000.
Marchisio, Aldo: *See*—
Beccaris, Carlo; and Marchisio, Aldo, 4,676,356, Cl. 192-70.280.
Marchitto, Michael J.; and Bocciarelli, Louis R., to United Technologies Corporation. Helicopter rotor backup damper system. 4,695,226, 9-22-87, Cl. 416-106.000.
Marciano-Agostinelli, Fabrizio; and Barbaro-Forleo, Marco, to Pirelli Cable Corporation. Filling compound for multi-wire conductor of an electrical cable and cables including such compound. 4,703,132, 10-27-87, Cl. 174-23.00C.
Marcilly, Christian: *See*—
Dufresne, Pierre; Marcilly, Christian; and Trinh, Dinh Chan, 4,645,752, Cl. 502-66.000.
Marcina, George L.; Lawlor, Francis E.; Beemer, Paul H.; and Balling, Lawrence A., to W. W. Henry Company, The. Taggant composition. 4,652,395, 3-24-87, Cl. 252-301.350.
Marciniak, Hans C.; and Goodwin, Frank E., to Hughes Aircraft Company. RF-excited CO_2 waveguide laser with extended tuning range. 4,677,635, 6-30-87, Cl. 372-55.000.
Marco, Inc.: *See*—
Began, Dennis; and Craig, Wayne L., 4,676,413, Cl. 224-42.03B.
Marco Seattle, Inc.: *See*—
Alex, Wayne E.; and Cook, Harold T., Jr., 4,648,193, Cl. 43-4.000.
Marcolina, Gene A. Disposable rodent trap. 4,662,102, 5-5-87, Cl. 43-85.000.
Marcon Electronics Co., Ltd.: *See*—
Momoki, Takamichi; and Harada, Shunichi, 4,660,017, Cl. 338-21.000.
Marcon, Joel M.; Durant, Jacques A.; and Simon, Georges H., to Etat Francais. Controlled percussion device for automatic weapon. 4,704,945, 11-10-87, Cl. 89-185.000.
Marconi Avionics Limited: *See*—
Duffy, Edward P.; Craggs, Geoffrey B.; and McGlade, David, 4,653,012, Cl. 364-518.000.
Hayes, David; and Rix, Francis E., 4,667,308, Cl. 364-900.000.
Welsh, John, 4,688,043, Cl. 342-149.000.
Marconi Company Limited, The: *See*—
Barker, Antony T.; Giles, Simon C.; and Richardon, Robert, 4,704,543, Cl. 307-106.000.
Church, Peter D., 4,644,793, Cl. 73-505.000.
Floyd, John T.; Huggett, Christopher D.; Jones, Michael A.; and Woods, John R. G., 4,672,330, Cl. 331-4.000.
Hutchinson, Ronald, 4,660,005, Cl. 333-134.000.
Newham, Paul, 4,673,947, Cl. 343-781.0CA.
Pidgeon, Alastair N.; and Webb, Arthur L., 4,683,348, Cl. 136-246.000.
Richardson, Robert, 4,689,593, Cl. 336-90.000.
Wilson, David J. M.; and Cope, Paul E. G., 4,692,614, Cl. 250-231.00R.
Marconi Instruments Limited: *See*—
Haigh, James E., 4,651,089, Cl. 324-79.00R.
Thomas, Neil E., 4,672,336, Cl. 333-81.00A.
Marconi International Marine Company Limited: *See*—
Vucevic, Svet O., 4,696,196, Cl. 74-5.220.
Marcott, Roger F. Tarp fastener. 4,688,304, 8-25-87, Cl. 24-459.000.
Marcotte, Richard P.; and Dumont, John W., Jr., to Dumont Holding Company. Underfed stoker boiler for burning bituminous coal and other solid fuel particles. 4,697,530, 10-6-87, Cl. 110-234.000.
Marcoux, Frank W., to Warner-Lambert Company. Method for using verapamil for treating stroke. 4,654,372, 3-31-87, Cl. 514-646.000.
Marcoux, Frank W., to Warner-Lambert Company. Method for using diltiazem for treating stroke. 4,696,924, 9-29-87, Cl. 514-211.000.
Marcoux, Frank W., to Warner-Lambert Company. Method for using nifedipine for treating stroke. 4,696,934, 9-29-87, Cl. 514-277.000.
Marcoux, Guy, to Compagnie Generale d'Electricite. Hard-wired circuit for handling screen windows. 4,670,752, 6-2-87, Cl. 340-721.000.
Marcouyoux, Sylvain J. A.: *See*—
Bertrand, Jean-Paul A.; Guezou, Jean-Pierre R.; Balquet, Robert J.; Marcouyoux, Sylvain J. A.; and Jodelet, Francois C. L., 4,646,866, Cl. 180-126.000.
Marcq, Bernard: *See*—
Delbecq, Gerard; Markey, Jean-Pierre; Marcq, Bernard; and Val, Rene , 4,672,726, Cl. 29-33.00A.
Marcuard, Alain: *See*—
Pouilain, Michel; and Marcuard, Alain, 4,709,237, Cl. 342-203.000.
Marcus, Bonita K.: *See*—
Lok, Brent M. T.; Marcus, Bonita K.; and Flanigen, Edith M., 4,684,617, Cl. 502-214.000.
Lok, Brent M. T.; Marcus, Bonita K.; and Flanigen, Edith M., 4,686,092, Cl. 423-306.000.
Lok, Brent M. T.; Marcus, Bonita K.; and Flanigen, Edith M., 4,707,345, Cl. 423-326.000.
Marcus, Edward J. Device for retarding oxidation of partly consumed bottle of wine. 4,684,033, 8-4-87, Cl. 215-269.000.
Marcus, Edward N. For characterizing a heart condition. 4,637,400, 1-20-87, Cl. 128-653.000.
Marcus, Herbert D.: *See*—
DeSatnick, Allen H.; and Marcus, Herbert D., 4,650,462, Cl. 604-30.000.
Marcus, Konrad H.; and Chu, Zooey C., to Prince Corporation. Visor with mirror with flexible sliding cover. 4,639,085, 1-27-87, Cl. 350-283.000.
Marcus, Michael A.; and Benson, John E., to Eastman Kodak Company. Beta phase PVF_2 film formed by casting it onto a specially prepared insulating support. 4,711,808, 12-8-87, Cl. 428-336.000.
Marcus, Mitchell S.: *See*—
Arnold, Marc E.; and Marcus, Mitchell S., 4,637,712, Cl. 355-75.000.
Marcus, Paul. Tamper evident container with integral tear strip. 4,671,420, 6-9-87, Cl. 215-32.000.
Marcus, Paul. Tamper evident container. 4,687,111, 8-18-87, Cl. 215-32.000.
Marcusse, Alain; and Pinel, Max, to Technal International S.A. Load-carrying structure for making volume-enclosing constructions, in particular for placing against buildings. 4,712,337, 12-15-87, Cl. 52-90.000.
Marcuvitz, Andrew: *See*—
Douros, Bryan P.; and Marcuvitz, Andrew, 4,716,575, Cl. 375-3.000.
Marcy Gymnasium Equipment Co.: *See*—
Mahnke, Parker E., 4,678,185, Cl. 272-134.000.
Marczak, Stanislaw: *See*—
Achmatowicz, Barbara; Daniewski, Andrzej R.; Marczak, Stanislaw; Pankowski, Jacek; and Wicha, Jerzy, 4,707,554, Cl. 549-214.000.
Mardak, Keith R., to Hal Leonard Publishing Corporation. Portable viewing stand. 4,709,895, 12-1-87, Cl. 248-460.000.
Mardesich, Nicholas A.: *See*—
Burger, Norman D., 4,680,173, Cl. 424-47.000.
Mardesich, Nick, to Spectrolab, Inc. Drive through doping process for manufacturing low back surface recombination solar cells. 4,703,553, 11-3-87, Cl. 437-2.000.
Mardesich, Nick: *See*—
Lillington, David R.; Mardesich, Nick; Dill, Hans G.; and Garlick, George F. J., 4,694,115, Cl. 136-256.000.
Mardh, Per A.; and Svensson, Sigfrid, to Biocarb AB. Therapeutic treatment employing oligosaccharides. 4,665,060, 5-12-87, Cl. 514-61.000.
Mardian, Kris A.: *See*—
Kozozian, Gagik; and Mardian, Kris A., 4,706,768, Cl. 177-138.000.
Mardin, Mithat; Busse, Wolf-Dieter; Hoffmeister, Friedrich; Seuter, Friedel; Perzborn, Elisabeth; Schlossmann, Klaus; Mayer, Dieter; and Fiedler, Volker, to Bayer Aktiengesellschaft. Nafazatrom as a lipoxygenase inhibitor. 4,657,924, 4-14-87, Cl. 514-404.000.

ardin, Mithat; Seuter, Friedel; Perzborn, Elisabeth; Schlossmann, Klaus; Mayer, Dieter; and Fiedler, Volker, to Bayer Aktiengesellschaft. Inhibiting lipoxygenase with pyrazolone derivatives. 4,670,460, 6-2-87, Cl. 514-404.000.

ardin, Mithat: *See*—
Niemers, Ekkehard; Grutzmann, Rudi; Mardin, Mithat; Busse, Wolf-Dieter; and Meyer, Horst, 4,636,497, Cl. 514-215.000.
Stegelmeier, Hartmut; Fiedler, Volker; Mardin, Mithat; Mayer, Dieter; Perzborn, Elisabeth; and Seuter, Friedel, 4,659,732, Cl. 514-404.000.

ardirosian, John, to AT&T Bell Laboratories. Carrier recovery circuit. 4,648,100, 3-3-87, Cl. 375-86.000.

ardon Illingworth, Ltd.: *See*—
Dudzik, Henryk, 4,640,493, Cl. 251-342.000.

arec, Jean: *See*—
Leprince, Philippe; Marec, Jean; Saada, Serge; Bloyet, Emile; and Migne, Jacques, 4,698,822, Cl. 372-70.000.

arechal, Ernest: *See*—
Laval, Francois; Madec, Pierre J.; and Marechal, Ernest, 4,647,642, Cl. 528-25.000.

arechal, Michel: *See*—
Tytgat, Daniel; Lefevre, Pierre; and Marechal, Michel, 4,652,340, Cl. 156-664.000.

areck B.V.: *See*—
Vergne, Bernard, 4,708,634, Cl. 431-1.000.

arecki, Nelda M.; and Avalon, Gary A., to Avery International Corporation. Bandage for sustained delivery of drugs. 4,655,768, 4-7-87, Cl. 604-897.000.

aree, Michel: *See*—
Guillot, Jean; Raynaud, Jacques; Maree, Michel; Vaillant, Robert; and Ansaldi, Jean, 4,645,139, Cl. 244-3.220.
Sabatie, Michele; and Maree, Michel, 4,669,523, Cl. 164-97.000.

arek B.V.: *See*—
Bader, Jean-Marc, 4,634,371, Cl. 431-116.000.

arek, Donald C., to J. I. Case Company. Axle oscillation adjustment means. 4,714,263, 12-22-87, Cl. 280-111.000.

arek, Henry S.; Michel, Christian G.; Baumann, John A.; and Kuck, Mark A., to Stauffer Chemical Company. P_4 gas generator using the alkali metal polyphosphide MP_{15}. 4,670,241, 6-2-87, Cl. 423-322.000.

arek, Rainer, to Windmoller & Holscher. Apparatus for automatically controlling the temperature of welding bands. 4,705,937, 11-10-87 Cl. 219-497.000.

arek, Scott A., to Eaton Corporation. Crowned splines and defination of root radius therefor. 4,704,096, 11-3-87, Cl. 464-156.000.

arelco Power Systems, Inc.: *See*—
Burgher, Peter H.; and Boomer, John, 4,703,158, Cl. 219-90.000.

arelli Autronica S.p.A.: *See*—
Cotignoli, Giuseppe, 4,660,534, Cl. 123-643.000.

arello, Georges: *See*—
Bard, Max; Sibilo, Gerard; Marello, Georges; Viale, Daniel; and Louis, Michel, 4,641,985, Cl. 403-16.000.

aremont Corporation: *See*—
Bunning, Ernst; and Hutchins, Wayne, 4,685,235, Cl. 42-75.020.
Johnson, Daniel C.; and Brummel, David J., 4,706,358, Cl. 29-235.000.
Lala, Sharookh; Lehnerer, Patrick; Hanson, Russell; and Stevens, Michael, 4,641,814, Cl. 254-10.500.
Riggs, Charles B., 4,699,044, Cl. 92-13.600.

Marendaz, Georges-Andre , to Charmilles Technologies S.A. Process and apparatus for monitoring thermal stresses in an electrode wire in an EDM apparatus. 4,675,491, 6-23-87, Cl. 219-69.00W.

Marer, Joseph C., to Brind Anstalt Fuer Industrie Patente. Hybrid explosive unit. 4,665,826, 5-19-87, Cl. 102-401.000.

Mares, Bernard A., to Versa Steel, Inc. Pile tip for plural piles. 4,662,793, 5-5-87, Cl. 405-253.000.

Mares, Frank: *See*—
Boyle, William J., Jr.; Mares, Frank; and Wallo, Andrea M., 4,661,615, Cl. 558-363.000.
Boyle, William J., Jr., Mares, Frank; and Corbo, Andrea M., 4,710,545, Cl. 525-340.000.

Maresca, Joseph W., Jr.; and Wilson, Christopher P., to Vista Research, Inc. System and method for leak detection in liquid storage tanks. 4,646,560, 3-3-87, Cl. 73-49.200.

Maresca, Louis M., to Amoco Corporation. Stabilizing polyaryletherketones. 4,710,562, 12-1-87, Cl. 528-125.000.

Maresca, Louis M.: *See*—
Clendinning, Robert A.; and Maresca, Louis M., 4,716,211, Cl. 528-126.000.
Kawakami, James H.; Harris, James E.; Maresca, Louis M.; Robeson, Lloyd M.; and Cotter, Robert J., 4,705,822, Cl. 524-425.000.
Robeson, Lloyd M.; Harris, James E.; Maresca, Louis M.; and Kawakami, James H., 4,665,122, Cl. 524-504.000.
Robeson, Lloyd M.; Harris, James E.; Kawakami, James H.; and Maresca, Louis M., 4,698,390, Cl. 525-133.000.

Maresca, Robert L., to North American Philips Corporation. Combined position sensor and magnetic motor or bearing. 4,652,820, 3-24-87, Cl. 324-207.000.

Maresca, Robert L., to North American Philips Corporation. Tri-state switching controller for reciprocating linear motors. 4,698,576, 10-6-87, Cl. 318-687.000.

Marette, Gilles: *See*—
Rouly, Eric; Dubuit, Jean-Louis; and Marette, Gilles, 4,690,050, Cl. 101-35.000.

Marez, John: *See*—
Phillips, Thomas E.; and Marez, John, 4,647,966, Cl. 358-88.000.

Marfat, Anthony: *See*—
Lombardino, Joseph G.; and Marfat, Anthony, 4,656,265, Cl. 544-33.000.

Margalit, Shlomo; Yariv, Amnon; and Rav-Noy, Zeev, to California Institute of Technology. Vertical Schottky barrier gate field-effect transistor in GaAs/GaAlAs. 4,636,823, 1-13-87, Cl. 357-23.300.

Margarit, Josette: *See*—
Franceschini, Jacqueline; Gardaix-Luthereau, Renee; and Margarit, Josette, 4,703,055, Cl. 514-400.000.

Margaux Controls, Inc.: *See*—
Persem, Jake; Quinn, Mike; Emery, Walter C.; and Bracht, Philip E., 4,633,672, Cl. 62-126.000.

Margel, Shlomo, to Yeda Research and Development Co., Ltd. High yield process for producing polyaldehyde microspheres. 4,677,138, 6-30-87, Cl. 522-178.000.

Margerum, Lawrence D.: *See*—
Meyer, Thomas J.; O'Toole, Terrence R.; Margerum, Lawrence D.; Westmoreland, T. David; Vining, William J.; Murray, Royce W.; and Sullivan, B. Patrick, 4,711,708, Cl. 204-280.000.

Marget, Christian; and Rose, Gerard, to Charbonnages de France. Power circuit and trigger device comprising same. 4,712,153, 12-8-87, Cl. 361-91.000.

Margetts, Hugh G.: *See*—
Ingram, Brian; Margetts, Hugh G.; and England, Michael J., 4,702,352, Cl. 188-79.5GE.
Ingram, Brian; Margetts, Hugh G.; and Rees, John R., 4,702,354, Cl. 188-196.00D.

Marggraff, Fritz. Boat with a raisable and lowerable keel. 4,690,089, 9-1-87, Cl. 114-141.000.

Marginean, Barry L.; and Hookway, Warren A., Jr., to Labelon Corporation. Heat sensitive coating. 4,675,705, 6-23-87, Cl. 503-209.000.

Marginvest S.A. Holding: *See*—
Callut, Francois; and Demeuldre, Daniel, 4,690,914, Cl. 502-400.000.

Margison, Steven E.: *See*—
Slavik, William H.; Carlson, William P.; Cepynsky, George L.; Dussault, Paul G.; Margison, Steven E.; and Wolf, James A., Jr., 4,682,958, Cl. 434-335.000.

Margolien, Daniel J.: *See*—
Prendergast, William M.; and Margolien, Daniel J., 4,686,730, Cl. 15-93.00R.

Margolin, George D., to Photon Devices, Ltd. Graphic input or output device including a fiber optic bundle with electronic means for providing coherence. 4,674,834, 6-23-87, Cl. 350-96.250.

Margolin, George D., to Photon Devices, Ltd. Secure identification card and system. 4,682,794, 7-28-87, Cl. 283-82.000.

Margolin, George D., to Photon Devices, Ltd. Document scanner employing a fiber optic bundle and exhibiting grey scale. 4,702,552, 10-27-87, Cl. 350-96.250.

Margolin, Mark, to Allied Corporation. Method of terminating fiber optic connector without polishing optical fiber. 4,643,520, 2-17-87, Cl. 350-96.200.

Margolin, Mark; Moore, James E.; and Grois, Igor, to Allied Corporation. Fiber optic connector with compensating mechanism. 4,684,205, 8-4-87, Cl. 350-96.210.

Margolin, Mark; Moore, James E.; and Grois, Igor, to Allied Corporation. Fiber optic connector with temperature compensating mechanism. 4,687,288, 8-18-87, Cl. 350-96.200.

Margolin, Mark; and Grois, Igor, to Amphenol Corporation. Fiber optic connector. 4,705,352, 11-10-87, Cl. 350-96.200.

Margolin, Mark; Grois, Igor; and Moore, James E., to Amphenol Corporation. Fiber optic cable preparation tool and method of preparing fiber optic cable for termination with a fiber optic connector. 4,715,251, 12-29-87, Cl. 81-9.400.

Margolis, Geoffrey; Mercier, Alain; and Schlecht, Klaus, to Nestec S.A. Process for extracting roasted and ground coffee. 4,701,333, 10-20-87, Cl. 426-432.000.

Margolis, Joel, to Gradiant Pty Limited. Device for extraction of electrophoretic fractions. 4,707,233, 11-17-87, Cl. 204-182.300.

Margossian, Linda J.: *See*—
Simpson, Robert B.; and Margossian, Linda J., 4,658,082, Cl. 800-1.000.

Margotta, Kenneth V., to Combustion Engineering, Inc. Boundary seal for vessel penetration. 4,655,483, 4-7-87, Cl. 285-169.000.

Margraf, David J.: *See*—
Portman, Joe L., Jr.; and Margraf, David J., 4,697,657, Cl. 177-210.0FP.

Marguardt GmbH: *See*—
Kuhnemundt, Gerhard; and Elsasser, Heinz, 4,703,248, Cl. 323-300.000.

Margulis, Howard. Fishing lure producing oscillatory motion, and utilizing detachable tail. 4,653,218, 3-31-87, Cl. 43-26.200.

Margulis, Walter; Sibbett, Wilson; and Sleat, William E., to National Research Development Corporation. Apparatus for measuring light beam characteristics. 4,693,599, 9-15-87, Cl. 356-121.000.

Marguth, Val M.: *See*—
Gray, Robert R.; and Marguth, Val M., 4,637,794, Cl. 432-58.000.

Marhic, Gerard; and Messager, Joel, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Explotation des Procedes Georges Claude. Plasma arc forming process and device. 4,650,956, 3-17-87, Cl. 219-121.0PY.

Marhic, Gerard, to Lair Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Plasma welding or cutting torch provided with a nozzle cartridge. 4,682,005, 7-21-87, Cl. 219-121.0PM.

Marhic, Gerard, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Plasma welding or cutting system provided with a delay. 4,692,582, 9-8-87, Cl. 219-121.0PT.

Marhic, Michel, to Northwestern University. Transmissive single-mode fiber optics star network. 4,708,424, 11-24-87, Cl. 350-96.160.

Marhic, Michel E.: *See*—
Raviv, Gil; Marhic, Michel E.; and Epstein, Max, 4,643,514, Cl. 350-3.600.

Marhoefer, Michael: *See*—
Oltendorf, Norman E.; and Marhoefer, Michael, 4,651,076, Cl. 318-696.000.

Marhofer, Gerd: *See*—
Buck, Robert; and Marhofer, Gerd, 4,663,542, Cl. 307-308.000.

Marhoff, Paul: *See*—
Heinze, Udo; and Marhoff, Paul, 4,639,943, Cl. 378-96.000.

Marhold, Albrecht, to Bayer Aktiengesellschaft. Benzo-fused fluorinated heterocyclic compounds and a process for their preparation. 4,681,955, 7-21-87, Cl. 549-362.000.

Maria, Edmond: *See*—
Franzolini, Marc; Maria, Edmond; Vanderschaeghe, Alain; and Bezier, Jean, 4,665,601, Cl. 29-157.30C.

Maria van Riet, Wilhelmus A., to Dow Chemical Company, The. Thermal insulation system. 4,637,189, 1-20-87, Cl. 52-309.800.

Marian, Miklos; and Weber, Donald L. Device for separating liquid fractions. 4,636,361, 1-13-87, Cl. 422-101.000.

Mariani, Elio A.; and Skudera, William J., Jr., to United States of America, Army. Wideband saw channellizer using slanted array input transducer. 4,639,695, 1-27-87, Cl. 333-133.000.

Mariani, Lauro, to Gilardini S.p.A. Supercharger for supplying a heat engine of a motor vehicle. 4,648,817, 3-10-87, Cl. 418-152.000.

Mariani, Renato: *See*—
So, Vincent C.; Hughes, Richard P.; Vella, Paul J.; Huszarik, Fred A.; and Mariani, Renato, 4,671,653, Cl. 356-73.100.

Marianne, Jean-Jacques: *See*—
Sciaky, Mario; Jablonski, Pierre; Marianne, Jean-Jacques; and Leonard, Michel, 4,675,969, Cl. 29-281.400.

Marianowski, Leonard G.; and Vorres, Karl S., to Institute of Gas Technology. Electrochemical production of partially oxidized organic compounds. 4,661,422, 4-28-87, Cl. 429-13.000.

Marianowski, Leonard G., to Institute of Gas Technology. Dual compartment anode structure. 4,702,973, 10-27-87, Cl. 429-41.000.

Marianowski, Leonard G.: *See*—
Ong, Estela T.; and Marianowski, Leonard G., 4,663,250, Cl. 429-16.000.

Maric, Dane: *See*—
Tarrson, Emanuel B.; Maric, Dane; and Kelly, Thomas P., 4,691,404, Cl. 15-167.00R.
Tarrson, Emanuel B.; and Maric, Dane, 4,710,996, Cl. 15-105.000.

Marich, John J.; and Vartanian, Thomas V., to J. Marich & Sons. Internal sewage line stub cutting tool having automatic bit adjustment. 4,657,449, 4-14-87, Cl. 409-143.000.

Maricle, Donald L.: *See*—
Reiser, Carl A.; and Maricle, Donald L., 4,659,635, Cl. 429-41.000.

Marie, Georges P.: *See*—
Lanier, Jean-Pierre R.; and Marie, Georges P., 4,677,776, Cl. 40-15.00R.

Marie, Gerard J. M.; and Arragon, Jean-Pierre C., to U.S. Philips Corporation. Multiplex television system adapted to transmit pictures with a 5/3 aspect ratio, system. 4,672,425, 6-9-87, Cl. 358-12.000.

Marie, Gerard J. M.: *See*—
Arragon, Jean-Pierre; Cantou, Christian; and Marie, Gerard J. M., 4,649,419, Cl. 380-20.000.
Taurin, Michel; Pernot, Jean-Michel; and Marie, Gerard J. M., 4,659,875, Cl. 380-19.000.

Marien, August M.: *See*—
Uytterhoeven, Herman J.; De Winter, Walter F.; and Marien, August M., 4,639,404, Cl. 430-115.000.
Uytterhoeven, Herman J.; Marien, August M.; and De Winter, Walter F., 4,663,265, Cl. 430-114.000.

Marier, Gregory J., to Yamaha Hatsudoki Kabushiki Kaisha. Apparatus for adjusting a vehicle steering mechanism. 4,688,817, 8-25-87, Cl. 280-278.000.

Marietta, Walter E., to Sta-Rite Industries, Inc. Apparatus for disabling an obstructed lift mechanism. 4,638,586, 1-27-87, Cl. 187-8.490.

Mariette, Laurent: *See*—
Devanneaux, Jacques; Gallez, Jean-Paul; and Mariette, Laurent, 4,677,093, Cl. 502-220.000.

Marihart, John R., to Pacific Micro Minerals, Inc. Process for preparation of compositions for modifying plant growth; compositions for plant growth modification; and method for the use thereof. 4,698,090, 10-6-87, Cl. 71-24.000.

Marikovsky, Moshe; and Doron, Benjamin, to Solmat Systems, Ltd. Method of and apparatus for reduction of turbidity in a body of fluid. 4,652,378, 3-24-87, Cl. 210-716.000.

Marin A., Alvaro. Rotary fluid-handling mechanism. 4,634,355, 1-6-87, Cl. 418-226.000.

Marin A., Alvaro. Rotary fluid-handling mechanism. 4,634,356, 1-6-87, Cl. 418-226.000.

Marin, Carlo; Lanfranconi, Gianmario; and Borroni, Andrea, to Societa' Cavi Pirelli S.p.A. Granulator for cross-linkable plastic. 4,698,009, 10-6-87, Cl. 425-196.000.

Marin, Guy F. M.: *See*—
Hethuin, Serge; and Marin, Guy F. M., 4,636,958, Cl. 364-451.000.

Marin, James S.; and Tan, Khen-Sang, to Texas Instruments Incorporated. Analog signal conditioning and digitizing integrated circuit. 4,654,815, 3-31-87, Cl. 364-606.000.

Marin, Manuel. Door lock. 4,683,733, 8-4-87, Cl. 70-134.000.

Marin-Tek, Inc.: *See*—
St. Pierre, Michael, 4,689,964, Cl. 62-114.000.

Marinaccio, Paul J.: *See*—
Harvey, Andrew C.; Ribich, William A.; Marinaccio, Paul J.; and Sawaf, Bernard E., 4,709,453, Cl. 24-442.000.

Marinack, Robert J.: *See*—
Cheshire, James O.; Marinack, Robert J.; Van den Akker, Johannes A.; and Lindgren, Douglas L., 4,686,006, Cl. 162-336.000.

Marincic, Nikola; and Fuksa, Radek, to Battery Engineering, Inc. Method for dehydrating manganese dioxide. 4,662,065, 5-5-87, Cl. 29-623.100.

Marine Industrie Limitee: *See*—
Tremblay, Donald, 4,657,111, Cl. 182-36.000.

Marine Moisture Control Company, Inc.: *See*—
Schmukler, Charles S.; and Buon, Georges A., 4,710,643, Cl. 250-573.000.

Marine Partners: *See*—
Casey, Thomas A.; Rice, Miles L.; Keough, William B.; Rothenbuhler, Dan E.; and Trimble, Bruce E., 4,647,928, Cl. 340-98.400.

Marine & Petroleum Equipment Mape: *See*—
Sable, Claude, 4,671,126, Cl. 74-41.000.

Marine Technological Exchange, Inc.: *See*—
Sapp, Samuel C., 4,655,157, Cl. 114-291.000.

Marine Travelift, Inc.: *See*—
Lamer, Gerald P.; Lenius, Norbert W.; and Stearn, Richard A., 4,705,180, Cl. 212-190.000.

Marinelli, Nick A.: *See*—
Dunk, Thomas H.; and Marinelli, Nick A., 4,645,593, Cl. 210-169.000.

Maring, Clarence J.: *See*—
White, David R.; and Maring, Clarence J., 4,698,436, Cl. 549-361.000.

Maringer, Robert E., to Battelle Development Corporation. Flow casting. 4,646,812, 3-3-87, Cl. 164-479.000.

Maringer, Robert E., to Battelle Development Corporation. Method of repetitiously marking continuously cast metallic strip material. 4,658,885, 4-21-87, Cl. 164-463.000.

Marinho, John: *See*—
Mastriani, Dennis; Jacoby, Donald; Weise, Jeanne; Linick, Bruce; Marinho, John; and DeSantis, Charles M., 4,696,053, Cl. 455-67.000.

Marini, Ingo G.; and Sustmann, Scarlet, to Lenzing Aktiengesellschaft. Copper-modified carboxyalkyl-cellulose fiber. 4,637,820, 1-20-87, Cl. 8-129.000.

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Marini, Michele E.: *See*—
Arotin, Robert L.; Walworth, Bryant L.; and Marini, Michele E., 4,639,268, Cl. 71-105.000.

Marinkovich, Vincent S. Disposable mouth-to-mouth resuscitation device. 4,697,587, 10-6-87, Cl. 128-203.110.

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Giatras, James L.; Mang, Warren G.; Marino, Charles P.; Needling, Michael C.; and Pezdirtz, George F., 4,701,345, Cl. 427-45.100.

Marino, Dean F.; Ryan, William E.; and Kamp, Arthur J., to Dow Chemical Company, The. Apparatus for measurement of hollow fiber dimensions. 4,638,168, 1-20-87, Cl. 250-560.000.

Marino, Emilio; and Mastromarino, Raffaele, to Deltasider SpA. Nozzles for casting aluminum-killed steels. 4,682,717, 7-28-87, Cl. 222-591.000.

Marino, Frank J., to Marino Technologies, Inc. Cargo bag with integral lifting loops. 4,703,517, 10-27-87, Cl. 383-7.000.

Marino, Joseph A. Connecting blocks. 4,698,023, 10-6-87, Cl. 434-259.000.

Marino, Joseph A.: *See*—
D'Andrade, Bruce M.; and Marino, Joseph A., 4,696,655, Cl. 446-330.000.

Marino, Joseph A., Jr.; and Bellin, Matthew E., to Biomedical Dynamics Corporation. Apparatus for regulating the flow of fluid in medical apparatus. 4,634,434, 1-6-87, Cl. 604-246.000.

Marino, Louis S.; Buell, Heinz; and Fiore, John M., to Singer Company, The. Doppler-inertial data loop for navigation system. 4,675,822, 6-23-87, Cl. 364-453.000.

Marino, Michael; and Rudis, Thomas C. Tamper-resistant closure. 4,640,427, 2-3-87, Cl. 215-232.000.

Marino, Michael, to West Penn Plastic, Inc. Tamper evidence closure. 4,711,363, 12-8-87, Cl. 220-266.000.

Marino Technologies, Inc.: *See*—
Marino, Frank J., 4,703,517, Cl. 383-7.000.

Marino, Thomas F. Method for spill containment. 4,707,969, 11-24-87, Cl. 53-449.000.

Marinoni, Giorgio; and Capello, Giuseppe, to Comau S.p.A. Industrial robot for welding and cutting by means of a laser beam. 4,698,483, 10-6-87, Cl. 219-121.0LU.

Marinoni, Mario, to Casma di V. Marinoni & Figli. Edge rail for a window pane, in particular an all-glass door. 4,655,025, 4-7-87, Cl. 52-771.000.

Marinoni, Mario, to Casma di V. Marinoni & Figli. Hinge member for an all-glass plate member including a metal fitting. 4,689,853, 9-1-87, Cl. 16-382.000.

Marinus, Antonius A., to U.S. Philips Corporation. Switched-mode power supply with delay network to reduce switching losses. 4,694,385, 9-15-87, Cl. 363-19.000.
Marinus, Antonius A. M., to U.S. Philips Corporation. Switched-mode power supply having a standby state. 4,688,159, 8-18-87, Cl. 363-21.000.
Marinvent Corporation: *See*—
Maris, John M., 4,649,387, Cl. 340-966.000.
Mario Pinto S.p.A.: *See*—
Berardo, Giuseppe, 4,639,001, Cl. 279-121.000.
Mariol, James F., to Fairdale Orthodontic Company. Breakaway orthodontic face bow appliance. 4,695,250, 9-22-87, Cl. 433-5.000.
Mariol, John V.: *See*—
Kohus, Louis M.; and Mariol, John V., 4,688,280, Cl. 5-99.00R.
Marion, Bernard, to Sophysa. Valve for the treatment of hydrocephalus. 4,673,384, 6-16-87, Cl. 604-10.000.
Marion, Charles P., to Texaco Development Corp. Partial oxidation of hydrocarbon gases. 4,699,631, 10-13-87, Cl. 48-197.00R.
Marion Laboratories, Inc.: *See*—
Avery, Carl F., 4,643,973, Cl. 435-287.000.
Marion, Paul R.; Nemcoes, James J.; and Kolodziej, George C., to National Can Corporation. Apparatus for inspecting containers. 4,693,376, 9-15-87, Cl. 209-552.000.
Marionneaux, John L. Roadway and roadway expansion joint. 4,657,430, 4-14-87, Cl. 404-74.000.
Maris, Humphrey J.: *See*—
Tauc, Jan; Maris, Humphrey J.; and Thomsen, Christian, 4,710,030, Cl. 356-432.000.
Maris, John M., to Marinvent Corporation. Method and apparatus for investigating airflow. 4,649,387, 3-10-87, Cl. 340-966.000.
Marishima, Kazuo: *See*—
Yagasaki, Akio; and Marishima, Kazuo, 4,696,509, Cl. 296-84.00A.
Marissal, Jeanine; and Aubert, Lucien P., to Societe Anonyme dite: BIOTHERM. Slenderizing and anti-cellulitis cosmetic composition based on an extract of a plant containing saponins, an extract of Arnica Montana L and a kola nut extract, and to a process for using the same. 4,684,522, 8-4-87, Cl. 424-195.100.
Mariusson, Oskar; and Bjarnason, Jon. Water-repellent and vapor-permeable paint. 4,716,188, 12-29-87, Cl. 524-268.000.
Marjollet, Jacques: *See*—
Alias, Pascal; Lacoste, Olivier; Marjollet, Jacques; and Pouderoux, Pierre, 4,671,214, Cl. 122-488.000.
Franzolini, Marc; and Marjollet, Jacques, 4,675,963, Cl. 29-157.400.
Mark, Alfred J.; and Debettin, Joseph H. P., to Chrysler Motors Corporation. Cutting and heat sealing apparatus for vehicle seat inserts. 4,708,760, 11-24-87, Cl. 156-362.000.
Mark, Andrew, to Salton, Inc. Appliance mounting apparatus. 4,660,793, 4-28-87, Cl. 248-231.800.
Mark, Carol M., legal representative: *See*—
Mark, Victor, deceased; Mark, Ester H., legal representive; and Peters, Edward N., 4,677,183, Cl. 528-196.000.
Mark, Victor, deceased; and Mark, Ester H., legal representative, 4,677,184, Cl. 528-198.000.
Mark, Victor, deceased; and Mark, Ester H., legal representative, 4,699,971, Cl. 528-198.000.
Mark Controls Corporation: *See*—
Brown, George W., 4,706,934, Cl. 251-87.000.
Mark, David: *See*—
Lynch, Gordon; McLuckie, Peter; Mark, David; and Vincent, James H., 4,675,034, Cl. 55-270.000.
Mark, David F.; Wang, Alice M.; Ladner, Martha B.; Creasey, Abla A.; Lin, Leo S.; and Van Arsdell, Janelle, to Cetus Corporation. Human tumor necrosis factor. 4,677,063, 6-30-87, Cl. 435-68.000.
Mark, David F.; Wang, Alice M.; Ladner, Martha B.; Creasey, Abla A.; Van Arsdell, Janelle N.; and Lin, Leo S., to Cetus Corporation. Human tumor necrosis factor. 4,677,064, 6-30-87, Cl. 435-68.000.
Mark, David F.: *See*—
Larrick, James W.; Ringold, Gordon M.; Mark, David F.; Lin, Leo S.; and Torti, Frank M., 4,684,623, Cl. 514-12.000.
Mark, David S. Sound actuated switch. 4,690,242, 9-1-87, Cl. 181-0.500.
Mark, Ester H., legal representative: *See*—
Mark, Victor, deceased; and Mark, Ester H., legal representative, 4,677,184, Cl. 528-198.000.
Mark, Victor, deceased; and Mark, Ester H., legal representative, 4,699,971, Cl. 528-198.000.
Mark, Ester H., legal representive: *See*—
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Mark, Fritz: *See*—
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Mark, H. Wayne: *See*—
Bertus, Brent J.; McKay, Dwight L.; and Mark, H. Wayne, 4,664,779, Cl. 208-114.000.
Mark, Harold W.: *See*—
Bresson, Clarence R.; and Mark, Harold W., 4,702,821, Cl. 209-166.000.
Kimble, Kenneth B.; Bresson, Clarence R.; and Mark, Harold W., 4,650,568, Cl. 209-167.000.
Lindstrom, Merlin R.; and Mark, Harold W., 4,637,833, Cl. 106-14.130.
Mark Industries, Inc.: *See*—
Mims, Charles R., 4,701,188, Cl. 55-20.000.
Mark IV Industries, Inc.: *See*—
Mair, Steven M.; and Durham, Clyde S., 4,686,862, Cl. 74-44.000.
Mark, John G.; Brown, Alison K.; and Matthews, Anthony, to Litton Systems, Inc. Method and apparatus for reducing quantization error in laser gyro test data through high speed filtering. 4,634,283, 1-6-87, Cl. 356-350.000.
Mark, Richard H., Jr., to Westinghouse Electric Corp. Color display of related parameters. 4,644,336, 2-17-87, Cl. 340-701.000.
Mark, Seymour, to Standard Oil Company, The. Coal-aqueous mixtures. 4,670,058, 6-2-87, Cl. 106-283.000.
Mark Telephone Products, Inc.: *See*—
Zuckerman, Matthew M., 4,648,260, Cl. 73-23.100.
Mark, Victor; and Hedges, Charles V., to General Electric Company. Polycarbonate exhibiting improved heat resistance from cycloalkylidene diphenol. 4,638,027, 1-20-87, Cl. 524-157.000.
Mark, Victor; and Hedges, Charles V., to General Electric Company. Polycarbonate exhibiting improved heat resistance from halogenated cycloalkylidene diphenol. 4,638,036, 1-20-87, Cl. 525-462.000.
Mark, Victor, to General Electric Company. Polyarylate having amide terminal groups. 4,663,421, 5-5-87, Cl. 528-176.000.
Mark, Victor; and Hedges, Charles V., to General Electric Company. Polycarbonates exhibiting improved heat resistance. 4,663,434, 5-5-87, Cl. 568-640.000.
Mark, Victor, deceased (by Mark, Carol M., legal representative); by Mark, Ester H., legal representive; and Peters, Edward N., to General Electric Company. Polycarbonate exhibiting improved impact properties containing divalent residue of polymerized, partially hydrogenated conjugated alkadiene monomer. 4,677,183, 6-30-87, Cl. 528-196.000.
Mark, Victor, deceased (by Mark, Carol M., legal representative); and by Mark, Ester H., legal representative, to General Electric Company. Polycarbonate containing cycloalkenylphenyl terminal groups. 4,677,184, 6-30-87, Cl. 528-198.000.
Mark, Victor, deceased (Mark, Carol M., legal representative); and Mark, Ester H., legal representative, to General Electric Company. Polycarbonate with cycloalkylphenyl end group. 4,699,971, 10-13-87, Cl. 528-198.000.
Mark, William J. Double acting clamp. 4,671,500, 6-9-87, Cl. 269-228.000.
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Mkhikian, Robert M.; Shaginian, Suren G.; Markarian, Temur G.; Khaidukov, Georgy K.; Velidzhanian, Sofia V.; Manukian, Artashes R.; Karapetian, Artur K.; Kazarian, Aram V.; and Airapetian, Robert R., 4,708,628, Cl. 425-406.000.
Markbreiter, Stephen J.; and Weiss, Irving, to Kryos Energy Inc. Liquid carbon dioxide recovery from gas mixtures with methane. 4,704,146, 11-3-87, Cl. 62-17.000.
Markbreiter, Stephen J.; and Dessanti, Daniel J., to Kryos Energy Inc.; and Brooklyn Union Gas Company, The. Cogeneration of electricity and refrigeration by work-expanding pipeline gas. 4,711,093, 12-8-87, Cl. 62-87.000.
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Glatras, James L.; Mang, Warren G.; Marino, Charles P.; Needling, Michael C.; and Pezdirtz, George F., 4,701,345, Cl. 427-45.100.
Markel, David: *See*—
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Markem Corporation: *See*—
Kearney, David A., 4,680,082, Cl. 156-497.000.
Marker, Hannes; and Rochelt, Gunter, to Marker, Hannes. Boom end piece. 4,635,579, 1-13-87, Cl. 114-97.000.
Marker, Hannes; Janich, Karl; and Huss, Otto, to Marker, Hannes. Device for securing a forked boom to the mast of a sailboard. 4,665,852, 5-19-87, Cl. 114-98.000.
Marker, Hannes. Sailboard centerboard. 4,667,615, 5-26-87, Cl. 114-132.000.
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Klubitschko, Gerd, 4,657,278, Cl. 280-612.000.
Sedlmair, Gerhard, 4,640,524, Cl. 280-611.000.
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Marker International Company: *See*—
Sedlmair, Gerhard; and Knabel, Walter, 4,660,849, Cl. 280-625.000.
Stepanek, Premek; Wagner, Ludwig; and Knabel, Walter, 4,693,489, Cl. 280-634.000.
Marker, Richard L.: *See*—
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Marker, Ronald E.: *See*—
Miller, Gary T.; Marker, Richard L.; and Marker, Ronald E., 4,683,803, Cl. 92-71.000.
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Schnee, Reiner; Pennewiss, Horst; and Markert, Gerhard, 4,640,954, Cl. 524-516.000.
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Markert, Jurgen: *See*—
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Marketing Displays, Inc.: *See*—
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Grewe, Ronald E., 4,696,136, Cl. 52-222.000.
Hillstrom, David U.; and Cope, Dennis R., 4,714,220, Cl. 248-160.000.

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Markey, Jean-Pierre: *See*—
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Markevich, Ronald L., to Occidental Chemical Corporation. Polyesterether elastomer compositions having improved flame retardant properties. 4,707,506, 11-17-87, Cl. 524-89.000.
Markham, Charles W. Needle aspiration biopsy device with enclosed fluid supply. 4,693,257, 9-15-87, Cl. 128-752.000.
Markham, Charles W. Moisture-activated floatation device. 4,705,050, 11-10-87, Cl. 128-749.000.
Markham, Daniel S. Athletic supporter. 4,679,554, 7-14-87, Cl. 128-158.000.
Markham, Larry D.: *See*—
Chupka, David E.; Gilkey, Mark W.; Winkler, Jimmy L.; and Markham, Larry D., 4,663,030, Cl. 209-306.000.
Markham, Richard A. Metal backshell and method of assembling same. 4,662,700, 5-5-87, Cl. 339-143.00R.
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Torpey, Peter A.; and Markham, Roger G., 4,638,337, Cl. 346-140.00R.
Markhart, Albert H., III, to University of Minnesota, Regents of the. Hand operated press for tissue extraction. 4,713,344, 12-15-87, Cl. 435-287.000.
Markhart, Gary T.: *See*—
Valenzky, David; and Markhart, Gary T., 4,707,139, Cl. 366-77.000.
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Lozinsky, Miron O.; Bobkov, Jury G.; Shinanjuk, Alla F.; Gevaza, Jury I.; Markovsky, Leonid N.; Kuznetsova, Galina A.; Markin, Valentin A.; Kleimenova, Natalya N.; Tentsova, Antonina I.; Motalov, Alexandr N.; Seredmin, Sergei B.; Katkov, Vladimir F.; Vinogradov, Vasily M.; and Kulinsky, Vladimir I., 4,691,046, Cl. 560-196.000.
Markisello, Frank. Method for removing ford ignition pin type cylinders. 4,682,398, 7-28-87, Cl. 29-426.400.
Markisello, Frank. Method of protecting lock cylinders from being wrenched or pulled. 4,712,403, 12-15-87, Cl. 70-417.000.
Markl, Maximillian: *See*—
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Markland Specialty Engineering Ltd.: *See*—
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Markle, David A., to Perkin-Elmer Corporation, The. Optical lithographic system. 4,650,315, 3-17-87, Cl. 355-43.000.
Markle, Larry M.: *See*—
Orndorff, Karl B., Baldwin, Paul L.; and Markle, Larry M., 4,699,251, Cl. 187-1.00R.
Markle, Richard A.; and Melchior, Wayne R., to Eagle Picher Industries, Inc. Heat curable solventless liquid prepolymer and novel monomer derived from hexylcarbitol for use therewith. 4,699,965, 10-13-87, Cl. 526-304.000.
Markle, Wilson; and Mitchell, Christopher, to Colorization Inc. Method of, and apparatus for, modifying luminance levels of a black and white video signal. 4,710,805, 12-1-87, Cl. 358-81.000.
Marklew, David S., to Glynwed Tubes and Fittings Limited. Plug valve. 4,705,058, 11-10-87, Cl. 137-15.000.
Markley, Theodore J.; Teach, Ted L.; Hart, Edward E.; and Pohl, William C., to Spectra-Physics, Inc. Laser beam projection device and arrangement for mounting a laser plasma tube therein. 4,654,856, 3-31-87, Cl. 372-65.000.
Markley, Theodore J.; Ortlor, Richard J.; Vatter, William K.; and Sobottke, Mark D., to Spectra-Physics, Inc. Multiple reference laser beam apparatus. 4,676,598, 6-30-87, Cl. 350-171.000.
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Marklund, Olle E.; Elmlid, Carl-Gustaf; Marklund, Ulf P.; and Borell, Michael C., to Boliden Aktiebolag. Autogenous grinding method. 4,681,268, 7-21-87, Cl. 241-24.000.
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Marklund, Olle E.; Elmlid, Carl-Gustaf; Marklund, Ulf P.; and Borell, Michael C., 4,681,268, Cl. 241-24.000.
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Markow, Angel K. Treatment of adult respiratory distress syndrome (ARDS) using fructose diphosphate (FDP). 4,703,040, 10-27-87, Cl. 514-23.000.
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Markovic, A.; Temerinac, M.; and Braegas, Peter, to Blaupunkt Werke GmbH. Method and system for signalling additional information by AM medium wave broadcasting. 4,679,238, 7-7-87, Cl. 381-16.000.
Markovic, Milan: *See*—
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Amelio, William J.; Bartolotta, Peter G.; Markovich, Voya; and Parsons, Ralph E., 4,655,833, Cl. 106-1.230.
Markovitch, Peter; and Klepesch, Philip H., to Geothermal Energy Development Corporation. Geothermal turbine. 4,641,498, 2-10-87, Cl. 60-641.200.
Markovitz, Mark, to General Electric Company. Low viscosity epoxy resin compositions. 4,656,090, 4-7-87, Cl. 428-364.000.
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Markovsky, Leonid N.: *See*—
Lozinsky, Miron O.; Bobkov, Jury G.; Shinanjuk, Alla F.; Gevaza, Jury I.; Markovsky, Leonid N.; Kuznetsova, Galina A.; Markin, Valentin A.; Kleimenova, Natalya N.; Tentsova, Antonina I.; Motalov, Alexandr N.; Seredmin, Sergei B.; Katkov, Vladimir F.; Vinogradov, Vasily M.; and Kulinsky, Vladimir I., 4,691,046, Cl. 560-196.000.
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Markow, Edward G., to Grumman Aerospace Corporation. Convoluted cone wheel. 4,705,087, 11-10-87, Cl. 152-5.000.
Markow, Edward G.: *See*—
Kopsco, Michael A.; and Markow, Edward G., 4,708,186, Cl. 152-516.000.
Markow, Margaret. Ridable recreation device. 4,696,467, 9-29-87, Cl. 272-114.000.
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Markowski, Robert G.; Balcezak, Stanley M., Jr.; Bottalico, John J.; Morby, John A.; and Sabatella, Robert J., to General Electric Company. Compact electric safety switch. 4,675,481, 6-23-87, Cl. 200-144.00R.
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Marks, Alvin M. Electro-optical dipole suspension with reflective-absorptive-transmissive characteristics. 4,667,255, 5-5-87, Cl. 252-583.000.
Marks, Alvin M. Electrothermodynamic power converter with converging flows. 4,677,326, 6-30-87, Cl. 310-10.000.
Marks, Arthur E. Entrapment apparatus. 4,685,244, 8-11-87, Cl. 43-58.000.
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Leone, David A.; and Marks, Douglas C., 4,635,011, Cl. 335-16.000.
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Marks, George R. Reversible mortise lockset. 4,696,174, 9-29-87, Cl. 70-451.000.
Marks, Gerald C.; and Quist, Per I., to BP Chemicals Limited. Process for the preparation of phenolic foam. 4,648,922, 3-10-87, Cl. 156-79.000.
Marks, Jeffrey C., to Deere & Company. Three-speed planetary transmission. 4,696,205, 9-29-87, Cl. 74-767.000.
Marks, Lawrence, deceased; and by Marks, Esther, administrator. Percussion noisemaker. 4,658,694, 4-21-87, Cl. 84-402.000.
Marks, Maurice J.; Porter, James R.; and Plepys, Raymond A., to Dow Chemical Company, The. Hydrolysis of isocyanate distillation bottoms. 4,654,443, 3-31-87, Cl. 564-305.000.
Marks, Maurice J.; and Plepys, Raymond A., to Dow Chemical Company, The. Polyisocyanurate-based polyoxazolidone polymers and process for their preparation. 4,658,007, 4-14-87, Cl. 528-55.000.
Marks, Richard L.; and Parker, William T., to AMP Incorporated. Removable retaining and guide means for electrical sockets. 4,648,669, 3-10-87, Cl. 339-75.00M.
Marks, Richard L.; Scheingold, William S.; and Smith, Ronald M., to AMP Incorporated. Electrical connector. 4,657,325, 4-14-87, Cl. 339-17.0CF.
Marks, Robert T., to Ranco Incorporated. Reversing valve assembly with improved pilot valve mounting structure. 4,712,582, 12-15-87, Cl. 137-625.290.
Marks, Ronald F.: *See*—
Flint, Ephraim B.; Gruber, Peter A.; Marks, Ronald F.; Olive, Graham; and Zingher, Arthur R., 4,685,606, Cl. 228-123.000.
Marks, Steven, to Advanced Micro Devices, Inc. Process for smoothing a non-planar surface. 4,655,874, 4-7-87, Cl. 156-643.000.
Marks, Tobin J.; and Mauermann, Heiko, to Northwestern University. Organolanthanide catalysts. 4,668,773, 5-26-87, Cl. 534-15.000.

Marks, Tobin J.; and Mauermann, Heiko, to Northwestern University. Organolanthanide catalysts. 4,716,257, 12-29-87, Cl. 585-275.000.
Marksberry, Clarence L., to Electric Power Research Institute, Inc. Thermal storage furnace system. 4,686,959, 8-18-87, Cl. 126-400.000.
Markstein, George H.: *See*—
de Ris, John; and Markstein, George H., 4,637,735, Cl. 374-8.000.
Markstein, Peter W.: *See*—
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Auslander, Marc A.; Cocke, John; and Markstein, Peter W., 4,656,583, Cl. 364-300.000.
Chaitin, Gregory J.; Hopkins, Martin E.; Markstein, Peter W.; and Warren, Henry S., Jr., 4,656,582, Cl. 364-300.000.
Cocke, John; Markstein, Peter W.; and Markstein, Victoria I., 4,642,765, Cl. 364-300.000.
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Cocke, John; Markstein, Peter W.; and Markstein, Victoria I., 4,642,765, Cl. 364-300.000.
Marksteiner, William K.: *See*—
Cantwell, Robert H.; Markesteiner, William K.; and Hansen, V. Gregers, 4,710,772, Cl. 342-92.000.
Marktec Corporation: *See*—
Oyama, Akihiro; Funyu, Yutaka; and Sakurada, Kazuyuki, 4,682,182, Cl. 346-1.100.
Markum, T. Randall: *See*—
Cunningham, Donald M.; Bartels, Mark A.; and Markum, T. Randall, 4,687,905, Cl. 219-336.000.
Markuntovich, Felix D.: *See*—
Bragin, Boris F.; and Markuntovich, Felix D., 4,635,900, Cl. 251-326.000.
Bragin, Boris F.; Ilyushin, Alexei F.; Kolosov, Vladimir V.; Kulikov, Mikhail A.; Markuntovich, Felix D.; Ryabenko, Boris Z.; and Ekber, Boris Y., 4,671,487, Cl. 251-84.000.
Markure, Laura A.: *See*—
Borsari, Allen S.; Brym, Stanley J.; Markure, Laura A.; and Arpino, Ronald G., 4,692,589, Cl. 219-251.000.
Markus, James R.: *See*—
Guadagno, Philip A.; and Markus, James R., 4,647,541, Cl. 436-66.000.
Markus, Jan J. G. Device for opening and closing a sliding-door. 4,641,462, 2-10-87, Cl. 49-460.000.
Markusch, Peter H.; Rosthauser, James W.; and Tirpak, Robin E., to Mobay Corporation. Stable, aqueous dispersions of polyurethaneureas. 4,701,480, 10-20-87, Cl. 523-340.000.
Markusch, Peter H.: *See*—
Schmitt, Peter D.; and Markusch, Peter H., 4,677,180, Cl. 528-45.000.
Markussen, Erik K.; and Fog, Arne D., to Novo Industri A/S. Enzyme containing granulates useful as detergent additives. 4,661,452, 4-28-87, Cl. 435-187.000.
Markusson, Lars O., to Santrade Limited. Cutting insert. 4,681,488, 7-21-87, Cl. 407-114.000.
Markvart, Tomas; and Willoughby, Arthur F. W., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Semiconductor solar cells. 4,681,983, 7-21-87, Cl. 136-255.000.
Markvoort, Jan A.; and Rippens, Wilhelmus G. V. M., to U.S. Philips Corporation. Optical recording provided with a chalcogenide recording layer. 4,644,519, 2-17-87, Cl. 369-275.000.
Markwell, Roger E.; Ward, Robert W.; and de Mello, Carol R., to Beecham Group p.l.c. Certain 7-amino-pyrazolo[4,3-b]pyridines useful in treating inflammatory and allergic disorders. 4,716,160, 12-29-87, Cl. 514-212.000.
Markwell, Roger E.: *See*—
Ward, Robert W.; and Markwell, Roger E., 4,670,432, Cl. 514-210.000.
Marlboro Marketing, Inc.: *See*—
Mercer, John E.; Kidd, R. Christopher; and Merl, Milton, 4,706,824, Cl. 211-188.000.
Marleau, Gilles. Frameless, interlocking, multi-tray box. 4,643,494, 2-17-87, Cl. 312-111.000.
Marlek, Edward. Liquid chemical applicator for treatment of a horizontal surface. 4,638,948, 1-27-87, Cl. 239-722.000.
Marlen Manufacturing and Development Co.: *See*—
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Marlen Research Corporation: *See*—
Powers, Richard G.; Schack, Warren R.; Alley, Lewis F.; and Anderson, James E., 4,700,899, Cl. 241-30.000.
Powers, Richard G.; Zeets, Joseph S.; Currier, Joseph G.; and Alley, Lewis F., 4,708,296, Cl. 241-82.200.
Szemplenski, Thomas E.; Schack, Warren R.; and Powers, Richard G., 4,674,267, Cl. 53-432.000.
White, James E.; Alley, Lewis F.; Anderson, James E.; and Birdsell, Jackie D., 4,637,936, Cl. 426-523.000.
Marler Haley Exposystems Limited: *See*—
Bannister, Brian C., 4,653,563, Cl. 160-135.000.
Marlett, Everett M., to Ethyl Corporation. Preparation of amine alane complexes. 4,665,207, 5-12-87, Cl. 556-176.000.
Marlett, Lloyd D. Trailer. 4,702,662, 10-27-87, Cl. 414-477.000.
Marley Company, The: *See*—
Daily, Terrill A., 4,644,135, Cl. 219-370.000.
Marley Cooling Tower Company, The: *See*—
Bugler, Thomas W., III, 4,700,893, Cl. 239-498.000.
Kinney, Ohler L., Jr.; Houx, James R., Jr.; and Fritz, Gerald D., 4,663,092, Cl. 261-111.000.
McGowan, Joseph L., 4,712,697, Cl. 212-189.000.
Marley, David J.: *See*—
Hosilyk, Randall E.; Marley, David J.; and Hosilyk, Rodney E., 4,635,876, Cl. 242-195.000.
Marley, John; and Marley, Kurt. Voice command recognition system having compact significant feature data. 4,707,857, 11-17-87, Cl. 381-43.000.
Marley, Kurt: *See*—
Marley, John; and Marley, Kurt, 4,707,857, Cl. 381-43.000.
Marley, Robert R.: *See*—
Birrittella, Mark S.; Marley, Robert R.; and Seelbach, Walter C., 4,644,194, Cl. 307-475.000.
Marley Tile AG: *See*—
Brittain, David R., 4,666,648, Cl. 264-145.000.
Cooper, Christopher A., 4,651,491, Cl. 52-534.000.
Cooper, Christopher A., 4,685,265, Cl. 52-277.000.
Wood, John W. M.; and Hack, Richard C., 4,673,659, Cl. 106-98.000.
Marley-Wylain Company, The: *See*—
Harbison, Joe A.; LaGrange, Nyle D.; and Nielsen, Darryl M., 4,679,991, Cl. 417-360.000.
Harbison, Joe A.; Nielsen, Darryl M.; and McDaniel, Dorothy D., 4,687,023, Cl. 137-533.130.
Jarr, Klaus D., 4,679,587, Cl. 137-509.000.
La Grange, Nyle D.; Nielsen, Darryl M.; and Harbison, Joe A., 4,680,437, Cl. 200-84.00R.
LaGrange, Nyle D.; Nielsen, Darryl M.; and Wheeler, Charles F., 4,684,331, Cl. 417-366.000.
Nielsen, Darryl N.; and Wheeler, Charles F., 4,708,589, Cl. 415-199.200.
Wheeler, Charles F.; and Nielsen, Darryl M., 4,709,124, Cl. 174-65.00R.
Marlin Firearms Company: *See*—
Brophy, William S., 4,697,367, Cl. 42-71.010.
Marlin, Gary V.; and York, James F., to Borg-Warner Chemicals, Inc. Process for preparing bis(dialkylphenyl) pentaerythritol diphosphites. 4,665,211, 5-12-87, Cl. 558-78.000.
Marlin, James W.: *See*—
Herzog, Alexander; Marlin, James W.; Platte, Brian G.; and Yeskel, Filip J., 4,651,278, Cl. 364-300.000.
Marlinghaus, Ernst: *See*—
Hepp, Wolfgang; Heine, Gerold; Wess, Othmar; and Marlinghaus, Ernst, 4,662,375, Cl. 128-328.000.
Marlot, Roger: *See*—
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Marlow Industries, Inc.: *See*—
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Marlow, John, to Holliday Amusement Company, Inc. of Charleston. Coin operated switch. 4,673,878, 6-16-87, Cl. 307-139.000.
Marlow, Raymond; and Nelson, John L., Jr. Ground speed determining radar system. 4,698,636, 10-6-87, Cl. 342-104.000.
Marlowe, Christian P. Hydraulic transmission device and method of using it. 4,672,810, 6-16-87, Cl. 60-332.000.
Marmarosi nee Kellner, Katalin: *See*—
Szuts, Tamas; Szentmiklosi, Peter; Lengyel, Jozsef; Hermecz, Istvan; Vasvari nee Debreczy, Lelle; Horvath, Agnes; Kerszturi, Geza; Kovacs, Gabor; Horvath, Gabor; and Marmarosi nee Kellner, Katalin, 4,670,440, Cl. 514-254.000.
Marmel, Max: *See*—
Jordan, Harold V.; and Marmel, Max, 4,692,407, Cl. 435-36.000.
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Marmillion, David J., to Allied Corporation. Insert for an electrical connector. 4,636,020, 1-13-87, Cl. 339-59.00M.
Marmon Group, Inc., The: *See*—
Bagus, Brian M., 4,658,692, Cl. 84-1.240.
Foster, Matthew R., 4,706,608, Cl. 119-35.000.
Leibee, Donald L.; and Crist, Owen K., 4,711,312, Cl. 175-393.000.
Marmonier, Andre: *See*—
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Heng, Jean-Paul; Marmonier, Andre; and Briguet, Etienne, 4,704,659, Cl. 361-394.000.
Marnet, Crysanth; and Kassebohm, Borchert, to Stadtwerke Dusseldorf AG. Apparatus for neutralization of acidic pollutants in flue gases. 4,670,221, 6-2-87, Cl. 422-107.000.
Marocco, Giuseppe, to Technomarmi Maiera S.p.A.; and Seifag S.r.l. Composite slab incorporating a sheet of marble or similar natural stone, for the formation of facings for building, interior decoration and the like. 4,640,850, 2-3-87, Cl. 428-15.000.
Marocco, Norbert. Track for blinds. 4,653,564, 3-31-87, Cl. 160-168.00R.
Maroko, Peter: *See*—
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Marold, Freimut: *See*—
Heisel, Michael; Marold, Freimut; and Linde, Gerhard, 4,636,377, Cl. 423-575.000.
Marom, Emanuel, to Hughes Aircraft Company. Real time image subtraction with a single liquid crystal light valve. 4,707,077, 11-17-87, Cl. 350-162.120.
Marom, Emanuel: *See*—
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Maron, Melvin J. Process of teaching. 4,705,479, 11-10-87, Cl. 434-335.000.

Maron, Robert J.: *See*—
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Maroney, Ralf P.; Fishkind, Gregory A.; and Schneider, Frederick, to Plug-In Storage Systems, Inc. Wrist strap ground monitor. 4,638,399, 1-20-87, Cl. 361-220.000.
Maroney, Ralf P. Dice game apparatus. 4,648,602, 3-10-87, Cl. 273-146.000.
Maros, Ronald R., to Cooper Industries, Inc. Electrical connector system with releasable latching. 4,647,128, 3-3-87, Cl. 339-61.00M.
Maroschak, Michael D.; Atchley, Frederick P.; and Everson, Douglas G., to Plastic Tubing Industries, Inc. Universal septic tank fitting. 4,681,684, 7-21-87, Cl. 210-532.200.
Maroszek, Raymond V., to James River Corporation. Package assembly with heater panel and method for storing and microwave heating of food utilizing same. 4,661,671, 4-28-87, Cl. 219-10.55E.
Marot, Lajos K. D.: *See*—
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Maroth, Sybil. Swing force indicator for a playing piece of sports equipment. 4,684,133, 8-4-87, Cl. 273-186.00A.
Maroti, Endre S., to Morgan Construction Company. Method of controlling product tension in a rolling mill. 4,665,730, 5-19-87, Cl. 72-205.000.
Marotta, Enrico; and Castronuovo, Lucia. Quinoxaline derivatives useful for treatment and prophylaxis of swine dysentery and as animal growth promotants. 4,684,649, 8-4-87, Cl. 514-249.000.
Marotta Scientific Controls, Inc.: *See*—
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Marotte, Jean: *See*—
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Marotto, Robert A.; Kemp, Vincent M.; and Holmes, Henry A., Jr., to Dexter Lock Company. Tubular automatic deadbolt latch. 4,671,549, 6-9-87, Cl. 292-333.000.
Maroulis, Peter J.; Coe, Charles G.; Kuznicki, Steven M.; Clark, Patrick J.; and Roberts, David A., to Air Products and Chemicals, Inc. Selective zeolitic adsorbent and a method for activation thereof. 4,713,362, 12-15-87, Cl. 502-85.000.
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Marozzi, Alfred A. Print head operating mechanism. 4,694,747, 9-22-87, Cl. 101-301.000.
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Marpal AG: *See*—
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Degen, Hugo, 4,703,526, Cl. 5-237.000.
Marple, David P.: *See*—
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O'Connor, Michael; Jackson, Randall L.; and Marple, David P., 4,646,254, Cl. 364-574.000.
Marple, Stanley: *See*—
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Marple, Virgil A.; and Liu, Benjamin Y. H., to University of Minnesota, Regents of the. High volume virtual impactor. 4,670,135, 6-2-87, Cl. 509-143.000.
Marple, Wendell P.; and Miller, Hubert A., to International Business Machines Corporation. Edge detection using dual trans-impedance amplifier. 4,698,528, 10-6-87, Cl. 307-517.000.
Marples, Brian A.; and Stretton, Reginald J., to National Research Development Corporation. Antifungal utility of bile acids. 4,681,876, 7-21-87, Cl. 514-182.000.
Marpoe, Roland W.: *See*—
Cox, Larry B.; Johnson, William C.; and Marpoe, Roland W., 4,653,553, Cl. 141-114.000.
Marposs Societa' per Azioni: *See*—
Bolognesi, Antonio; Selleri, Narciso; and Gherdovich, Giancarlo, 4,703,587, Cl. 51-165.00R.
Marquardt GmbH: *See*—
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Marquardt, Hans: *See*—
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Marquardt, Julius F., to Dresser Industries, Inc. Coupling for a planetary ring gear. 4,656,890, 4-14-87, Cl. 74-801.000.
Marquardt, Kurt, to Hager & Elsasser GmbH. Apparatus for washing material. 4,684,464, 8-4-87, Cl. 210-189.000.
Marquardt, Rainer; Salzmann, Theodor; and Peppel, Michael, to Siemens Aktiengesellschaft. Procedure and device for detecting the non-conducting state of turn-off thyristors. 4,682,278, 7-21-87, Cl. 363-58.000.
Marquardt, Siegfrid; Myohl, Jochim; and Goldbach, Manfred, to Hauni-Werke Korber & Co. KG. Method and apparatus for making rod-like fillers from several types of fibrous material. 4,703,764, 11-3-87, Cl. 131-84.400.
Marquardt, Siegfrid: *See*—
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Marquardt, Terry L., to Westinghouse Electric Corp. Motor controller auxiliary contact unit with flexure member. 4,712,079, 12-8-87, Cl. 335-132.000.
Marquardt, Ulrich; and Seebold, Ralf, to Siemens Aktiengesellschaft. Contact assembly having a current-dependent force increasing the contact force. 4,636,762, 1-13-87, Cl. 335-195.000.
Marquardt, Ulrich; and Seebold, Ralf, to Siemens Aktiengesellschaft. Drive mechanism for a circuit breaker using eccentric member and directional lock. 4,655,098, 4-7-87, Cl. 74-163.000.
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Marquette Tool & Die Company: *See*—
Freber, Elmer C., 4,682,817, Cl. 297-408.000.
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Marquis, Edward T.; Sanderson, John R.; Keating, Kenneth P.; and Smith, William A., to Texaco Inc. Synthesis of ammonium molybdate/alkanol complexes. 4,650,886, 3-17-87, Cl. 556-57.000.
Marquis, Edward T.; Sanderson, John R.; Keating, Kenneth P.; and Smith, William A., to Texaco Inc. Synthesis of molybdenum oxide/alkanol complexes. 4,654,427, 3-31-87, Cl. 556-57.000.
Marquis, Edward T.; Watts, Lewis W., Jr.; and Yeakey, Ernest L., to Texaco Inc. Thioether diester lubricating oil composition. 4,661,272, 4-28-87, Cl. 252-32.70E.
Marquis, Edward T.; Sanderson, John R.; and Keating, Kenneth P., to Texaco Inc. Molybdenum/alkali metal/ethylene glycol complexes useful as epoxidation catalysts. 4,703,027, 10-27-87, Cl. 502-171.000.
Marquis, Edward T.: *See*—
Sanderson, John R.; Smith, William A.; Marquis, Edward T.; and Keating, Kenneth P., 4,691,034, Cl. 549-542.000.
Sanderson, John R.; Marquis, Edward T.; Smith, William A.; and Keating, Kenneth P., 4,691,035, Cl. 549-542.000.
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Marquis, Gerald L., to Western Atlas International, Inc. Two electrode well logging system for measuring resistivity of subsurface formations. 4,697,150, 9-29-87, Cl. 324-373.000.
Marquis, Tierry, to Gfeller AG. In-the-ear hearing aid. 4,634,815, 1-6-87, Cl. 387-68.400.
Marr, Douglas S. B., to Dowty Fuel Systems Limited. Reactivateable adsorption filter assembly. 4,663,033, 5-5-87, Cl. 210-108.000.
Marr-Leisy, Debra: *See*—
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Marraccini, Antonio; Carlini, Filippo M.; Bottaccio, Giorgio; Pasquale, Antonio; and Maranzana, Giorgio, to Montedison S.p.A. Silane diimidic tetracarboxylic perylene dyes and composite pigments. 4,655,843, 4-7-87, Cl. 106-308.00B.
Marraccini, Antonio; Carlini, Filippo M.; Pasquale, Antonio; and Pontevivo, Michele, to Montedison S.p.A. Silanated quinacridone dyes and composite pigments. 4,684,408, 8-4-87, Cl. 106-300.000.
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Marrocco, Matthew L., to Cities Service Oil and Gas Corporation. Gel for retarding water flow. 4,664,194, 5-12-87, Cl. 166-295.000.

Marrocco, Matthew L., to Cities Service Oil and Gas Corporation. Gel for retarding water flow. 4,666,957, 5-19-87, Cl. 523-130.000.
Marrone, Edward S.: *See*—
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Marrs, Gevan R.; and Prieve, Kathryn A., to Weyerhaeuser Company. Sample splitter. 4,672,856, 6-16-87, Cl. 73-863.520.
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Mars G. B. Limited: *See*—
Buckley, Keith; Prest, Colin T.; and Wilkinson, Paul, 4,707,375, Cl. 426-578.000.
Woolman, Paul; and Seward, Barry, 4,644,855, Cl. 99-280.000.
Mars, Inc.: *See*—
Bailey, John W.; Hayter, Paul A.; Mason, Brian R.; and Turner, Graham N., 4,714,875, Cl. 324-73.0PC.
Eglise, David; and Lewis, Adrian, 4,674,618, Cl. 194-210.000.
Marsalona, Guy. Composite glove drying device. 4,689,897, 9-1-87, Cl. 34-103.000.
Marsau, Uwe: *See*—
Heitmann, Uwe; Pinck, Peter; Kohler, Elke; Matwald, Berthold; and Marsau, Uwe, 4,645,921, Cl. 250-223.00R.
Marsault, Jean J.: *See*—
Roger, Gerard; and Marsault, Jean J., 4,656,001, Cl. 376-405.000.
Marsault, Jean-Jacques; Peyrelongue, Jean-Pierre; Semedard, Jean-Claude; and Vallee, Gerard, to Stein Industrie. Support device for thin-walled tubing. 4,679,755, 7-14-87, Cl. 248-74.100.
Marsault, Jean-Jacques: *See*—
Semedard, Jean-Claude; Marsault, Jean-Jacques; Peyrelongue, Jean-Pierre; and Vallee, Gerard, 4,640,480, Cl. 248-62.000.
Marschak, Howard J. Base shelf locking mechanism. 4,646,656, 3-3-87, Cl. 108-108.000.
Marschall, Norbert: *See*—
Semke, Wilhelm; Herkert, Roland; Marschall, Norbert; and Greeb, Karl-Heinrich, 4,713,311, Cl. 430-127.000.
Marschall, Peter; Schlosser, Ewald; and Vollmer, Hans-Peter, to Licentia Patent-Verwaltungs-GmbH; and ANT Nachrichtentechnik GmbH. Mushroom-shaped semiconductor stripe laser. 4,692,926, 9-8-87, Cl. 372-46.000.
Marschewski, Henry. Ring segment ship hull. 4,638,753, 1-27-87, Cl. 114-56.000.
Marschhausen, Karl-Heinz: *See*—
Strohmeyer, Erich; and Marschhausen, Karl-Heinz, 4,646,585, Cl. 74-476.000.
Marschik, David: *See*—
Shestak, Edward J.; and Marschik, David, 4,639,700, Cl. 335-6.000.
Wolfe, William R.; and Marschik, David, 4,713,642, Cl. 336-92.000.
Wu, Jing-Liang; Scherbarth, David W.; and Marschik, David, 4,683,353, Cl. 200-8.00R.
Marschner, Frank W., to Colgate-Palmolive Company. Stable suspension of powder in alcoholic media. 4,664,909, 5-12-87, Cl. 424-65.000.
Marschner, Friedemann: *See*—
Moller, Friedrich-Wilhelm; Boll, Walter; Marschner, Friedemann; and Muller, Wolf-Dieter, 4,692,322, Cl. 423-415.00A.
Marschner, Werner: *See*—
Wolff, Joachim; Wolt, Karlheinz; and Marschner, Werner, 4,685,933, Cl. 8-527.000.
Marsden, James G.: *See*—
Pepe, Enrico J.; and Marsden, James G., 4,668,716, Cl. 523-213.000.
Marsden, Peter; and Bradwell, Paul R., to Haden Drysys International Limited. Apparatus and method for applying material to articles. 4,692,358, 9-8-87, Cl. 427-421.000.
Marsden, Richard J.: *See*—
Erskine, William G.; and Marsden, Richard J., 4,714,931, Cl. 346-75.000.
Marse, Allan V.: *See*—
Boos, Donald L.; and Marse, Allan V., 4,713,731, Cl. 361-433.000.
Marsella, Gino: *See*—
Muhlhahn, Dieter; Marsella, Gino; Detzner, Friedhelm; Simons, Dieter; Schafer, Horst-Dieter; and Haarkotter, Hermann, 4,660,811, Cl. 267-141.100.
Marsella, John A., to Air Products and Chemicals, Inc. Process for the selective synthesis of tertiary alkanolamines. 4,680,393, 7-14-87, Cl. 544-170.000.
Marsella, John A., to Air Products and Chemicals, Inc. Process for the synthesis of hydroxyalkyl amines and hydroxyalkyl piperazines. 4,709,034, 11-24-87, Cl. 544-401.000.
Marsella, Louis J.; and Mahajan, Gautam K., to Continental Packaging Company. Method and apparatus for supplying to a container forming machine a web having a sterile face. 4,704,180, 11-3-87, Cl. 156-324.000.
Marsh, Arvol C.: *See*—
Sensabaugh, Andrew J.; Mangan, William P.; and Marsh, Arvol C., 4,660,577, Cl. 131-352.000.
Marsh, Charles H.: *See*—
Daie, Hedayat; Marsh, Charles H.; and Turner, Joe L., 4,669,110, Cl. 379-165.000.
Marsh, David J.: *See*—
Crane, Michael P.; and Marsh, David J., 4,638,481, Cl. 371-27.000.
Marsh, Douglas G., to American Telephone & Telegraph Co., AT&T Bell Laboratories. Field-effect transistor current switching circuit. 4,677,323, 6-30-87, Cl. 307-571.000.
Marsh, Frederick L.: *See*—
Rao, Purushothama; and Marsh, Frederick L., 4,713,304, Cl. 429-136.000.
Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., to Allied Corporation. Spray-dried inorganic oxides from non-aqueous gels or solutions. 4,649,037, 3-10-87, Cl. 423-338.000.
Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., to Allied Corporation. Spray-dried inorganic oxides from non-aqueous gels or solutions. 4,713,233, 12-15-87, Cl. 423-608.000.
Marsh, Gary L., to Shell Offshore Inc. Subsea power fluid accumulator. 4,649,704, 3-17-87, Cl. 60-415.000.
Marsh, Jesse. Document holder. 4,679,955, 7-14-87, Cl. 402-4.000.
Marsh, Jesse. Document holder. 4,685,821, 8-11-87, Cl. 402-4.000.
Marsh, John L.; Fraser, Edward C.; Rorden, Louis H.; and Bauer, William H., to Develco, Incorporated. Precision connector for well instrumentation. 4,646,831, 3-3-87, Cl. 166-242.000.
Marsh, Lawrence B. Averaging velocity sensor for measuring fluid flow in a conduit. 4,688,432, 8-25-87, Cl. 73-861.150.
Marsh, Nicholas C.: *See*—
Gaulding, William R.; Smith, William D.; and Marsh, Nicholas C., 4,702,653, Cl. 410-144.000.
Marsh, Norman F.: *See*—
Fleckenstein, Phillip P.; and Marsh, Norman F., 4,695,685, Cl. 200-61.210.
Marsh, Richard N.: *See*—
Lim, Basilio Y.; and Marsh, Richard N., 4,638,402, Cl. 361-328.000.
Marsh, Roger M.: *See*—
Hamlin, Humphrey A. S.; and Marsh, Roger M., 4,661,124, Cl. 55-21.000.
Marsh, Sydney A., to Marshall Cavendish Services Limited. Collapsible containers and methods of manufacturing the containers. 4,655,389, 4-7-87, Cl. 229-48.00T.
Marsh, Wayne E.: *See*—
Estes, William E.; and Marsh, Wayne E., 4,663,414, Cl. 528-30.000.
Marshak, Barry: *See*—
Fitzig, Simon; and Marshak, Barry, 4,699,423, Cl. 297-245.000.
Marshall Brass Company: *See*—
Huling, Robert G., 4,669,761, Cl. 285-330.000.
Marshall Cavendish Services Limited: *See*—
Marsh, Sydney A., 4,655,389, Cl. 229-48.00T.
Marshall, Charles H., to Westinghouse Electric Corp. Oblique observation attachment for microscopes. 4,714,327, 12-22-87, Cl. 350-504.000.
Marshall, Charles R., to Dixon Industries Corporation. Bearing and sealing member for moveable shaft. 4,660,996, 4-28-87, Cl. 384-138.000.
Marshall, Christopher B.; Wilson, John F.; and Nettleship, Robert, deceased (by Nettleship, Demetra D., executor), to U.S. Philips Corporation. AFC circuit for direct modulation FM data receivers. 4,672,636, 6-9-87, Cl. 375-88.000.
Marshall, Christopher B., to U.S. Philips Corporation. RF tuning circuit which provides image frequency rejection. 4,696,055, 9-22-87, Cl. 455-118.000.
Marshall, Christopher B.; and French, Richard C., to U.S. Philips Corporation. d.c. Block capacitor circuit for rejection of d.c. offset. 4,713,563, 12-15-87, Cl. 307-490.000.
Marshall, Christopher H.: *See*—
Abele, Manlio G.; and Marshall, Christopher H., 4,670,892, Cl. 378-004.000.
Marshall, Clarence F.: *See*—
Peters, Stanley T.; Kolek, Robert L.; Guenther, Rolf A.; Anderson, Jeffrey J.; and Marshall, Clarence F., 4,701,231, Cl. 156-172.000.
Marshall, Clifford D., to Shell Oil Company. Fusion product. 4,634,757, 1-6-87, Cl. 528-89.000.
Marshall, Colin K.: *See*—
Howard, Richard K.; and Marshall, Colin K., 4,707,054, Cl. 350-3.650.
Marshall, David: *See*—
Flesher, Peter; Clarke, John; and Marshall, David, 4,690,971, Cl. 524-555.000.
Hawe, Malcolm; Marshall, David; and Walker, John R., 4,673,520, Cl. 252-70.000.
Marshall, David H.: *See*—
Bocking, Bruce; Cervantes, Joe A., Jr.; Green, Douglas H.; La Sota, Bruce W.; Marshall, David H.; Rodriguez, Bernard; and Van Gorden, Glen, 4,681,175, Cl. 175-393.000.
Marshall, Dennis A. G. Fluid filter element with annular sealing means. 4,634,527, 1-6-87, Cl. 210-232.000.
Marshall, Dennis L.: *See*—
Brilmyer, George H.; and Marshall, Dennis L., 4,710,280, Cl. 204-146.000.
Marshall, Donald K. Disposable emergency respirator. 4,669,462, 6-2-87, Cl. 128-205.250.
Marshall Electric Corporation: *See*—
Kiltie, Ordean; and Marrs, Thomas C., 4,684,912, Cl. 336-185.000.

Marshall, Garland R.: *See*—
Ali, Fadia E.; Huffman, William F.; Marshall, Garland R.; and Moore, Michael L., 4,687,758, Cl. 514-11.000.
Marshall, George C., Jr., to General Dynamics, Pomona Division. Missile part assembly and transport cart. 4,685,859, 8-11-87, Cl. 414-590.000.
Marshall, Gerald F.: *See*—
Keem, John E.; and Marshall, Gerald F., 4,698,833, Cl. 378-84.000.
Marshall, Howard B.; Kaye, Gordon E.; and Lopata, Ira L., to Marshall, Howard B. Method and appratus for making a dental prosthesis and product therefrom. 4,713,005, 12-15-87, Cl. 433-180.000.
Marshall, J. Howard. Obtaining uniformity of response in analytical measurement in a neutron-capture-based on-line bulk-substance elemental-analyzer apparatus. 4,682,043, 7-21-87, Cl. 250-358.100.
Marshall, J. Nathaniel, to Honeywell Information Systems Inc. Method and apparatus for skew compensation in an optical reader. 4,652,730, 3-24-87, Cl. 235-436.000.
Marshall, James A. Apparatus for automating standard voltage reference cell intercomparisons. 4,647,860, 3-3-87, Cl. 324-433.000.
Marshall, James E., to Ford Motor Company. Mounting panel for a lamp socket assembly. 4,704,090, 11-3-87, Cl. 439-56.000.
Marshall, James R.; and Hardin, Roy T., Jr., to Westinghouse Electric Corp. Hatch assembly. 4,678,620, 7-7-87, Cl. 376-203.000.
Marshall, James R.: *See*—
Hardin, Roy T., Jr.; and Marshall, James R., 4,690,795, Cl. 376-264.000.
Hornak, Leonard P.; Meuschke, Robert E.; and Marshall, James R., 4,643,867, Cl. 376-248.000.
Meuschke, Robert E.; Hornak, Leonard P.; and Marshall, James R., 4,650,634, Cl. 376-248.000.
Marshall, James S. Method of producing foam and foam generator. 4,653,591, 3-31-87, Cl. 169-15.000.
Marshall, James W.; Hasser, Michael J.; Vanicky, Alex A.; and Podhorniak, Gary S., to Advanced Manufacturing Systems, Inc. Vibratory feeder. 4,687,093, 8-18-87, Cl. 198-465.200.
Marshall, John; and Oakey, John D., to BOC Group, plc, The. Refrigeration method and apparatus. 4,638,638, 1-27-87, Cl. 62-9.000.
Marshall, John; and Oakey, John D., to BOC Group, plc, The. Gas refrigeration method and apparatus. 4,638,639, 1-27-87, Cl. 62-9.000.
Marshall, Judy R.; and Miller, Richard L., to Marshall, Judy R. Fingernail polishing device. 4,646,953, 3-3-87, Cl. 224-217.000.
Marshall, Keith D.: *See*—
Hafner, V. Walter; Hahn, Ron T.; and Marshall, Keith D., 4,682,533, Cl. 92-98.00R.
Hafner, V. Walter; Hahn, Ron T.; and Marshall, Keith D., 4,698,860, Cl. 4-624.000.
Marshall, Kenneth M.: *See*—
Dean, Arthur L.; Kraft, Robert E.; and Marshall, Kenneth M., 4,673,833, Cl. 310-29.000.
Dean, Arthur L.; Kraft, Robert E.; and Marshall, Kenneth M., 4,701,647, Cl. 310-29.000.
Marshall, Lee, to Slautterback Corporation. Bulk unloader of solidified thermoplastic material from pails and drums. 4,635,820, 1-13-87, Cl. 222-63.000.
Marshall, Marie F.; and Kislow, Nancy C. Nasal cannula assembly with patient comfort pad. 4,699,139, 10-13-87, Cl. 128-207.180.
Marshall, Michael S.; and Ingham, Vernon R., to MG Industries. Palletized cylinder distribution system. 4,642,007, 2-10-87, Cl. 410-78.000.
Marshall, Michael S., to MG Industries. Automated cylinder connector. 4,662,654, 5-5-87, Cl. 285-18.000.
Marshall, Neil A., to Hughes Aircraft Company. Open fault location system for photovoltaic module strings. 4,695,788, 9-22-87, Cl. 324-527.000.
Marshall, Paul J.: *See*—
Lands, William E. M.; Kulmacz, Richard J.; Marshall, Paul J.; and Warso, Michael A., 4,675,281, Cl. 435-4.000.
Marshall, Peter G.; and Goerke, Ulrich B., to Data General Corporation. Electronic board identification. 4,675,769, 6-23-87, Cl. 361-1.000.
Marshall, Peter W., to Shell Oil Company. Stress reduction connection apparatus for cylindrical tethers. 4,633,801, 1-6-87, Cl. 114-266.000.
Marshall, R. H.: *See*—
Jewell, J. N.; Korte, K. R.; Marshall, R. H.; and Zipperle, Kevin A., 4,706,691, Cl. 131-300.000.
Marshall, Ralph C.; and Consoli, Ronald P. Air conditioning apparatus. 4,637,225, 1-20-87, Cl. 62-285.000.
Marshall, Ralph C.: *See*—
Davis, Christopher L.; Davis, Karlean M.; and Marshall, Ralph C., 4,700,695, Cl. 128-25.00R.
Marshall, Richard A., to Goodyear Tire & Rubber Company, The. BHA in vinyl chloride polymerization. 4,654,392, 3-31-87, Cl. 526-84.000.
Marshall Richards Barcro Limited: *See*—
Pamplin, John W.; and Astbury, Brian R., 4,644,769, Cl. 72-43.000.
Marshall, Robert. Space saver blender. 4,708,487, 11-24-87, Cl. 366-206.000.
Marshall, Robert E.: *See*—
Shevrin, Howard; Williams, William J.; and Marshall, Robert E., 4,699,153, Cl. 128-731.000.
Marshall, Robert H. Connector guide system for construction walls. 4,696,140, 9-29-87, Cl. 52-442.000.
Marshall, Robert H.: *See*—
Denier, Robert F.; Marshall, Robert H.; Jewell, John N.; and Litzinger, Elmer F., 4,677,994, Cl. 131-310.000.
Denier, Robert F.; and Marshall, Robert H., 4,687,007, Cl. 131-296.000.
Marshall, Stephen E.: *See*—
Buck, Robert H.; Cowan, Kent G.; Doughty, John P.; and Marshall, Stephen E., 4,688,021, Cl. 340-521.000.
Marshall, Steven G. Fluid-containing security device. 4,698,620, 10-6-87, Cl. 340-568.000.
Marshall, Thomas; and Stupp, Edward H., to North American Philips Corporation. Electrode configurations for an electrophoretic display device. 4,648,956, 3-10-87, Cl. 204-299.0EC.
Marshall, Thomas E.: *See*—
Finfinger, Gerald L.; King, Roger L.; and Marshall, Thomas E., 4,679,435, Cl. 73-594.000.
Marshall, Wayne E.; and Hofmann, Constance J., to Kraft, Inc. Fermented oilseed product for preparing imitation dairy products. 4,678,673, 7-7-87, Cl. 426-46.000.
Marshall, William B.: *See*—
Delaney, Mark S.; Marshall, William B.; and Brewbaker, James L., 4,668,746, Cl. 526-180.000.
Marshall, William F.; and Netoff, Theodore F., to Quantic Industries, Inc. Electrical circuit continuity test apparatus for firing unit. 4,649,821, 3-17-87, Cl. 102-206.000.
Marshall, William F.; and Mabry, Richard, to Quantic Industries, Inc. Safe-arm system with electrical charge transfer circuit. 4,700,263, 10-13-87, Cl. 361-251.000.
Marshall, Winston S.; and Verge, John P., to Eli Lilly and Company. Leukotriene antagonists. 4,661,505, 4-28-87, Cl. 514-381.000.
Marshek, Kurt M.: *See*—
Sides, Harold L.; and Marshek, Kurt M., 4,674,598, Cl. 182-116.000.
Marshell, Edward L. Automotive vehicle fuel tank cap hanger. 4,653,711, 3-31-87, Cl. 248-205.300.
Marshik, Gary J., to Celotex Corporation, The. Balance assembly for a window. 4,642,845, 2-17-87, Cl. 16-194.000.
Marshman, Christopher A.: *See*—
Ellis, Cedric R.; Long, Peter G.; Marshman, Christopher A.; and Gillery, David J., 4,702,246, Cl. 128-303.100.
Marsi, Joseph A., to Borg-Warner Corporation. Mechanical seal assembly. 4,648,605, 3-10-87, Cl. 277-89.000.
Marsico, Joseph W.: *See*—
Tomcufcik, Andrew S.; Marsico, Joseph W.; Eudy, Nancy H.; and Newman, Howard, 4,689,324, Cl. 514-89.000.
Marsico, Joseph W., Jr.: *See*—
Wright, William B., Jr.; Tomcufcik, Andrew S.; and Marsico, Joseph W., Jr., 4,680,293, Cl. 514-243.000.
Marsico, Mario A.: *See*—
Burrus, Gilbert S., Jr.; Cooper, Ronald J.; Marr, Michael R.; Pescatore, John C.; and Marsico, Mario A., 4,716,523, Cl. 364-200.000.
Cooper, Ronald J.; Marsico, Mario A.; Pescatore, John C.; and Sullivan, Paul D., 4,648,029, Cl. 364-200.000.
Marsico, Ronald; and Freimark, Bruce. Catenary sag adjustment using added weights. 4,686,325, 8-11-87, Cl. 174-40.00R.
Marsland, Charles N.; and Jannelli, Ralph J., to Process Systems, Inc. Load management control system and method. 4,686,630, 8-11-87, Cl. 364-492.000.
Marson, Albert U., to Michigan Bell Telephone Company. Telephone entrance terminal and network interface. 4,651,340, 3-17-87, Cl. 379-156.000.
Marson, Ralph G.: *See*—
Ching, Neng H.; Marson, Ralph G.; Norman, Michael J.; and Hughes, John L., 4,681,436, Cl. 356-121.000.
Marsoner, Hermann; Kroneis, Herbert; and Wolfbeis, Otto, to AVL AG. Sensor element for determining the oxygen content and a method of preparing the same. 4,657,736, 4-14-87, Cl. 422-56.000.
Marsoner, Hermann; Kirchmayer, Gerald; and List, Helmut, to AVL AG. Device for equilibrating a liquid reagent. 4,704,893, 11-10-87, Cl. 73-1.00G.
Marsoner, Hermann; and Kleinhappl, Erich, to AVL AG. Analyzing apparatus for measuring liquid or gaseous samples. 4,705,667, 11-10-87, Cl. 422-68.000.
Marsoner, Hermann: *See*—
Ritter, Christoph; Ghahramani, Massoud; and Marsoner, Hermann, 4,670,127, Cl. 204-418.000.
Marston, Caroll E., to Syenergy Methods, Inc. Fastening assembly for mechanically attaching a flexible membrane to a roof construction. 4,651,490, 3-24-87, Cl. 52-410.000.
Marston, Inc.: *See*—
Halpert, Stuart M., 4,662,678, Cl. 297-239.000.
Marston, Stephen; and Aboud, Isaac. Sports neck protector. 4,686,710, 8-18-87, Cl. 2-2.000.
Martel, Alain; and Daris, Jean-Paul, to Bristol-Myers Company. Stereocontrolled acetoxyazetidinone process. 4,639,335, 1-27-87, Cl. 540-304.000.
Martel, Alain; and Bachand, Carol, to Bristol-Myers Company. Carbapenem antibiotics. 4,665,169, 5-12-87, Cl. 540-350.000.
Martel, Bernard, to Solex. Carburetor with automatic starting device. 4,662,333, 5-5-87, Cl. 123-339.000.
Martel, Jacques; Tessier, Jean; and Demoute, Jean-Pierre, to Roussel Uclaf. Novel process for preparation of 1-furenyl-2,2-dimethyl-cyclopropane carboxylic acid derivatives. 4,642,372, 2-10-87, Cl. 560-124.000.
Martel, Jacques; Tessier, Jean; and Teche, Andre, to Roussel Uclaf. Ethers of pantolactone. 4,658,043, 4-14-87, Cl. 549-302.000.
Martel, Thomas J.: *See*—
Bowen, Robert F.; Heath, Michael C.; and Martel, Thomas J., 4,663,506, Cl. 219-10.55E.
Martell, Dennis J., to Northern Illinois Gas Company. Optical encoder with two photosensors. 4,634,859, 1-6-87, Cl. 250-231.0SE.

Martella, David J.: *See*—
Dekraker, Abraham R.; and Martella, David J., 4,670,130, Cl. 208-33.000.
Martelli, Daniele: *See*—
Ferrario, Bruno; Martelli, Daniele; and Boffito, Claudio, 4,665,343, Cl. 313-553.000.
Martelli, Nerio; Ottaviani, Alvaro; and Sabba, Pierluigi, to NESPAK S.p.A., Societa Generale per l'Imballagio. Apparatus for internally embossing trays formed from a foil of foamed plastics by a continuous hot-molding machine. 4,669,969, 6-2-87, Cl. 425-388.000.
Martellock, Paul T.; Dougherty, John J.; and Lund, Nora A., to General Electric Company. Overcurrent circuit interrupter using RMS sampling. 4,685,024, 8-4-87, Cl. 361-93.000.
Marten, Edward N. Rock saw unit for hard rock earth formations. 4,640,551, 2-3-87, Cl. 299-1.000.
Marten, Edward N., to H. B. Zachery Corporation. Rotary rock and trench cutting saw. 4,662,684, 5-5-87, Cl. 299-1.000.
Marten, Finn L., to Air Products and Chemicals, Inc. Thermoplastically processed packaging articles comprising a copolymer of vinyl alcohol and poly(alkyleneoxy)acrylate. 4,675,360, 6-23-87, Cl. 525-60.000.
Marten, Finn L., to Air Products and Chemicals, Inc. Copolymers of vinyl acetate and poly(alkyleneoxy) acrylates. 4,708,999, 11-24-87, Cl. 526-320.000.
Marten, James F., to Applied Immunesciences, Inc. Therapeutic apheresis. 4,643,718, 2-17-87, Cl. 604-28.000.
Marten, O. James: *See*—
Gross, Jonathan; and Marten, O. James, 4,711,623, Cl. 425-376.00A.
Marten, Russell A.: *See*—
Sasuta, Michael D.; Rosenthal, Lewis H.; Mills, Donald C.; Marten, Russell A.; Kizior, David J.; Sobti, Arun; and Blankenship, Johnny E., 4,698,805, Cl. 370-97.000.
Martenas, Wayne B., to New Holland Inc. Quick adjust shear bar mechanism. 4,678,130, 7-7-87, Cl. 241-222.000.
Martens, Alan; and Snow, Bennie E., to Westinghouse Electric Corp. Cooldown control system for a combined cycle electrical power generation plant. 4,638,630, 1-27-87, Cl. 60-39.182.
Martens, Edward J.: *See*—
Gutkowski, Ronald R.; and Martens, Edward J., 4,660,763, Cl. 239-43.000.
Martens, Ernst, to Alphair Ventilating Systems Inc. Auger construction for machines for forming hollow core concrete slabs. 4,710,112, 12-1-87, Cl. 425-64.000.
Martens, Gerhard: *See*—
Helzel, Thomas; Kordts, Jurgen; and Martens, Gerhard, 4,664,129, Cl. 128-774.000.
Martens, Mark A.: *See*—
Roncucci, Romeo; Gillet, Claude L.; Cordi, Alexis H.; Martens, Mark A.; Roba, Joseph L.; Niebes, Paul J.; Lambelin, Georges E.; and Van Dorsser, William R., 4,639,468, Cl. 514-620.000.
Martens, Theodorus G. J. A.; Steenhof, Frits A.; and Kalfs, Johannes J. W., to U.S. Philips Corporation. Data processing system in which unreliable words in the memory are replaced by an unreliability indicator. 4,641,310, 2-3-87, Cl. 371-38.000.
Martensson, Kjell H., to Tetra Pak International AB. Package. 4,657,175, 4-14-87, Cl. 229-17.00R.
Martensson, Olof, IV, to Awnings Unlimited, Inc. Awning support system. 4,641,805, 2-10-87, Cl. 248-273.000.
Marth, Kurt; Muller, Gerhard; Putz, Jurgen; and Schindler, Josef, to Siemens Aktiengesellschaft. Chip inductor electronic component. 4,704,592, 11-3-87, Cl. 336-83.000.
Marth, Kurt: *See*—
Moll, Helmut; Wiegel, Gerd; Schindler, Josef; Scherer, Wilfried; and Marth, Kurt, 4,712,723, Cl. 228-111.000.
Marth, Peter, to Mauser-Werke GmbH. Automatic latch for mold closing. 4,693,679, 9-15-87, Cl. 425-589.000.
Marthaler, Richard D.: *See*—
Zbinden, Terry B.; and Marthaler, Richard D., 4,654,599, Cl. 328-62.000.
Marthaler, Thomas; and Witzig-Jaggi, Uli, to Lever Brothers Company. Toothbrush. 4,667,360, 5-26-87, Cl. 15-167.00R.
Marti, Franz: *See*—
Punzar, Marianne; Marti, Franz; Mercier, Robert; Tobler, Paul; and Buttiker, Rudolf, 4,678,852, Cl. 544-194.000.
Marti, Jaime S. Machine for positioning containers. 4,681,209, 7-21-87, Cl. 198-392.000.
Martial, Joseph A.: *See*—
Baxter, John D.; Miller, Walter L.; and Martial, Joseph A., 4,675,297, Cl. 435-253.000.
Martien, James C.: *See*—
Voinche, Jack L.; and Martien, James C., 4,678,587, Cl. 210-748.000.
Martignoni, Mario: *See*—
Feinmann, Bernhard P. P.; and Martignoni, Mario, 4,677,139, Cl. 523-111.000.
Martikainen, Kaarlo; and Nevalainen, Kyosti, to Oy Wartsila Ab. Cylinderlock-key-combination. 4,686,843, 8-18-87, Cl. 70-366.000.
Martikainen, Kaarlo: *See*—
Nevalainen, Kyosti; and Martikainen, Kaarlo, 4,637,240, Cl. 70-366.000.
Martin, Adolf: *See*—
Erndt, Hans; Link, Erich; Martin, Adolf; Palloch, Herbert; and Wittler, Hilmar, 4,712,660, Cl. 192-18.00B.
Lengsfeld, Karl; Link, Erich; Martin, Adolf; and Wittler, Hilmar, 4,709,794, Cl. 192-18.00B.
Martin, Adolf H., to Adams Elevator Equipment Company. Key switch having cooperable cams which translate rotary motion to rectilinear. 4,689,456, 8-25-87, Cl. 200-43.080.
Martin, Alain. Box for beekeeping for the creation of a bee colony, change of queen from a hive in activity and partial restriction of brood rearing. 4,682,380, 7-28-87, Cl. 6-9.000.
Martin, Alain; and Maillard, Philippe, to Framatome & Cie. Process of replacing a sleeve mounted within a pipe. 4,682,725, 7-28-87, Cl. 228-119.000.
Martin, Albert E.: *See*—
Burns, Virgil D.; and Martin, Albert E., 4,702,692, Cl. 431-346.000.
Martin, Alexander; Overton, Colin; and Machin, David, to Lever Brothers Company. Stable thickened low pH liquid bleaching compositions containing inorganic peroxy compounds. 4,666,622, 5-19-87, Cl. 252-99.000.
Martin, Alexander: *See*—
Jones, Keith; Lothian, Barry R.; Martin, Alexander; Taylor, Graham; and Haq, Zia, 4,668,709, Cl. 521-146.000.
Martin, Andrea E., to Hercules Incorporated. Catalyst composition for polymerization of cycloolefins. 4,696,985, 9-29-87, Cl. 526-119.000.
Martin, Andrew McG.; Meyers, Kenneth C.; and Pawling, Daniel F., to Martin, Andrew McG. Apparatus for making easy open and reclosable bags. 4,682,976, 7-28-87, Cl. 493-206.000.
Martin, Anthony N., to United Technologies Corporation. Torque control system. 4,648,797, 3-10-87, Cl. 416-27.000.
Martin Audio Ltd.: *See*—
Martin, David N. H., 4,660,728, Cl. 211-118.000.
Martin, Billy P., to Goodyear Tire & Rubber Company, The. Cushion stock for power transmission belts. 4,634,726, 1-6-87, Cl. 524-34.000.
Martin, Charles B. Universal electrical connector. 4,643,513, 2-17-87, Cl. 339-254.00R.
Martin, Charles E.: *See*—
Vora, Kishore N.; Carrico, John P., Sr.; Spangler, Glenn E.; Campbell, Donald N.; and Martin, Charles E., 4,712,008, Cl. 250-287.000.
Martin, Charles F. Apparatus for clamping and sealing the outer surface of a pipe and fittings for pipe connection. 4,676,531, 6-30-87, Cl. 285-96.000.
Martin, Charles K., to Seligson, Aaron. Waste oil purifying process. 4,666,587, 5-19-87, Cl. 208-184.000.
Martin, Charles M.; and Lien, Wayne W., to RTE Corporation. Transformer telephone influence tractor core shunt. 4,656,452, 4-7-87, Cl. 336-178.000.
Martin, Charles W.; Ezzell, Bobby R.; and Weaver, John D., to Dow Chemical Company, The. Method for depositing a fluorocarbonsulfonic acid polymer on a support from a solution. 4,661,411, 4-28-87, Cl. 428-421.000.
Martin, Charles W.; and Shalon, Yehuda, to HT Chemicals, Inc. System for obtaining a homogeneous absorbent bed in a chromatographic column. 4,675,105, 6-23-87, Cl. 210-198.200.
Martin, Clifford D.: *See*—
Cook, Marvin D.; and Martin, Clifford D., 4,677,277, Cl. 219-130.010.
Martin, Colin L.: *See*—
Clarke, Aubrey R.; Martin, Colin L.; and Bowering, Robert H., 4,692,350, Cl. 427-138.000.
Martin, Cory J. Air conditioner evaporator system. 4,690,209, 9-1-87, Cl. 165-150.000.
Martin, Cynthia H.; and LaMarre, Thomas M., to Nalco Chemical Company. Synergistic biocide of dodecyl guanidine hydrochloride and a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one. 4,661,503, 4-28-87, Cl. 514-372.000.
Martin, Cynthia H.; and LaMarre, Thomas M., to Nalco Chemical Company. Synergistic biocide of 2-(p-hydroxyphenol) glyoxylohydroximoyl chloride and methylene bis thiocyanate. 4,661,517, 4-28-87, Cl. 514-515.000.
Martin, Cynthia H.: *See*—
LaMarre, Thomas M.; and Martin, Cynthia H., 4,661,518, Cl. 514-528.000.
Martin, Dallas J., to Western Geophysical Company of America. Seismic vibrator baseplate. 4,676,337, 6-30-87, Cl. 181-113.000.
Martin, Daniel B., to International Business Machines Corporation. Performance evaluation for an asymmetric multiprocessor system. 4,638,427, 1-20-87, Cl. 364-200.000.
Martin, Daniel L. Joint-replacement prosthetic device. 4,673,407, 6-16-87, Cl. 623-20.000.
Martin, Daniel R. Proctective adapter for pool drain. 4,658,449, 4-21-87, Cl. 4-496.000.
Martin, David H.; and Spanner, Raymond A., to International Business Machines Corporation. Electrochromic display employing potentiostatic erasure. 4,649,382, 3-10-87, Cl. 340-785.000.
Martin, David H.: *See*—
Larsen, Thor A.; Martin, David H.; and Moth, Frank T., 4,644,344, Cl. 340-785.000.
Martin, David N. H., to Martin Audio Ltd. Flying sound systems. 4,660,728, 4-28-87, Cl. 211-118.000.
Martin, Dennis R.: *See*—
Draper, Reed T.; Pol, Kenneth J.; and Martin, Dennis R., 4,690,303, Cl. 221-131.000.
Martin, Derek C.: *See*—
Grimes, Roger; and Martin, Derek C., 4,651,804, Cl. 164-455.000.
Martin, Donald B.: *See*—
Lojek, John S.; and Martin, Donald B., 4,676,196, Cl. 119-1.000.
Martin, Donald E., to Rexnord Inc. Conveyor roller and bearing assembly. 4,664,243, 5-12-87, Cl. 193-37.000.

Martin, Donald E., to Rexnord Inc. Conveyor roller and bearing assembly with external support. 4,681,215, 7-21-87, Cl. 198-843.000.

Martin, Elbert T. Mailbox signal device. 4,655,390, 4-7-87, Cl. 232-35.000.

Martin Engineering Company: *See*—
Blackford, William L.; and Zakharin, Greg. 4,693,732, Cl. 55-112.000.
Reicks, Allen V., 4,658,949, Cl. 198-497.000.
Stetson, Harold M., 4,676,402, Cl. 222-3.000.
Swinderman, Robert T., 4,643,293, Cl. 198-497.000.

Martin, Erich: *See*—
Kober, Drago; and Martin, Erich. 4,669,493, Cl. 137-73.000.

Martin, Eugene C.: *See*—
DeFusco, Albert A.; and Martin, Eugene C., 4,675,414, Cl. 548-521.000.

Martin, Eugene G.; and Risser, Dale M., to Favorite Manufacturing, Inc. Thigh deboner. 4,639,972, 2-3-87, Cl. 17-11.000.

Martin, Eugene G.; and Risser, Dale M., to FoodCraft Equipment Company, Inc. Thigh deboner. 4,644,608, 2-24-87, Cl. 17-46.000.

Martin, Eugene G.; and Martin, Harold C., to Favorite Manufacturing, Inc. Chicken thigh skinner. 4,697,307, 10-6-87, Cl. 17-11.000.

Martin, Eugene J.; Tootle, James N.; Fallows, Walter; Lambers, Howard; and Vanderlaan, Robert D., to Pneumo Abex Corporation. Redundant drive mechanisms for a direct drive valve and force motor assembly. 4,645,178, 2-24-87, Cl. 251-229.000.

Martin, Eugene J.: *See*—
Tootle, James N.; and Martin, Eugene J., 4,714,006, Cl. 92-5.00R.

Martin, Eugene R.: *See*—
Manis, Paul A.; Martin, Eugene R., and Muntz, Ronald L., 4,644,074, Cl. 556-401.000.
Manis, Paul A.; and Martin, Eugene R., 4,647,683, Cl. 556-440.000.

Martin, Eugene W.; and Martin, Robert J., to Interwest Import & Export Company. Apparatus and method for a security lock. 4,648,639, 3-10-87, Cl. 292-167.000.

Martin Feed Mills Ltd.: *See*—
Lojek, John S.; and Martin, Donald B., 4,67t,196, Cl. 119-1.000.

Martin, Francis J.; and Kung, Viola T., to Cooper-Lipotech, Inc. Enhanced agglutination method and kit. 4,636,479, 1-13-87, Cl. 436-533.000.

Martin, Francis W.: *See*—
Holleran, Louis M.; and Martin, Francis W., 4,714,687, Cl. 501-9.000.

Martin, Frank J.; Hartman, Murray; and Saunders, Randy, to Schlumberger Canada Limited. Snap-fitting transformer terminal cover. 4,640,985, 2-3-87, Cl. 174-138.00F.

Martin, Geoffrey S., to Vas-Cath of Canada Limited. Dual lumen cannula. 4,682,978, 7-28-87, Cl. 604-43.000.

Martin, George, to Siemens Corporate Research & Support, Inc. Highly aligned optical device. 4,650,998, 3-17-87, Cl. 250-239.000.

Martin, George F.: *See*—
Peltz, Curtis L.; Martin, George F.; and Blake, Peter H., 4,716,542, Cl. 364-900.000.

Martin, Gerald S.: *See*—
Daniell, Michael G.; and Martin, Gerald S., 4,634,092, Cl. 251-7.000.

Martin, Glenn E., to BASF Corporation, Inmont Division. Urethane nonaqueous dispersion for automotive base coat/clear coat applications. 4,705,839, 11-10-87, Cl. 528-49.000.

Martin, Graham J., to Litton Systems, Inc. Non-planar ring laser accelerometer. 4,637,255, 1-20-87, Cl. 73-517.00R.

Martin, Graham J., to Litton Systems, Inc. Laser angular rate sensor with dithered mirrors. 4,686,683, 8-11-87, Cl. 372-94.000.

Martin, Gregory C., to Pulse Electronics, Inc. Railroad coupler mount. 4,691,563, 9-8-87, Cl. 73-129.000.

Martin, Guy N.; and Jatteau, Michel R., to U.S. Philips Corporation. Camera for detecting X and γ rays, whose scintillation block has an entrance window constituted by a mechanically stiff and low absorbing X and γ radiation support. 4,682,033, 7-21-87, Cl. 250-363.00R.

Martin, Hans, to Emhart Industries, Inc. Apparatus for reading a line marking. 4,636,623, 1-13-87, Cl. 235-436.000.

Martin, Hans, to Sueddeutsche Kuhlerfabrik Julius Fr. Behr GmbH & Co. KG. Apparatus for controlling the coolant medium circulation of an internal combustion engine. 4,640,235, 2-3-87, Cl. 123-41.030.

Martin, Hans, to Sueddeutsche Kuehlerfabrik Julius Fr. Behr GmbH. Fluid friction clutch. 4,658,671, 4-21-87, Cl. 74-751.000.

Martin, Hans; and Braatz, Andreas, to Sueddeutsche Kuehlerfabrik Julius Fr. Behr GmbH; and Daimler-Benz Aktiengesellschaft. Fluid friction clutch with reserve chamber in the primary disk. 4,667,791, 5-26-87, Cl. 192-58.00B.

Martin, Harold C.: *See*—
Martin, Eugene G.; and Martin, Harold C., 4,697,307, Cl. 17-11.000.

Martin, Harold E.: *See*—
Bell, John R., III; Hodges, Robert E., Jr.; and Martin, Harold E., 4,676,042, Cl. 52-543.000.

Martin, Harry: *See*—
Cigdem, Saffet; Lichnofsky, Rudiger; and Martin, Harry, 4,683,998, Cl. 192-58.00C.

Martin, Harry D., III: *See*—
Patrician, Thomas J.; Sylvester, Vito P.; and Martin, Harry D., III, 4,670,216, Cl. 419-15.000.

Martin, Harvey G., to De La Rue Systems Limited. Sheet dispensing method and apparatus. 4,651,982, 3-24-87, Cl. 271-4.000.

Martin, Helmut; and Schreier, Wolfgang, to L. & C. Steinmuller GmbH. Method of reducing the NO_x content in combustion gases. 4,669,399, 6-2-87, Cl. 110-347.000.

Martin, Henry; and Fricker, Urs, to Ciba-Geigy Corporation. Oxime ethers, the preparation thereof, compositions con..aining them and use thereof. 4,648,895, 3-10-87, Cl. 71-88.000.

Martin, Henry; and Fricker, Urs, to Ciba-Geigy Corporation. Phenoxine-ketal ethers, compositions containing them and the use thereof. 4,707,182, 11-17-87, Cl. 71-94.000.

Martin, Henry: *See*—
Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gotzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene ; Pachlatko, Johannes P.; Rempfler, Hermann; Schurter, Rolf; and Szczepanski, Henry, 4,715,883, Cl. 71-90.000.

Martin, Henry A.: *See*—
Badaracco, John A.; and Martin, Henry A., 4,637,088, Cl. 15-97.00R.

Martin, Herman H.; and Kidd, Earl H., deceased (by Kidd, Grace E. T., executor), to Outboard Marine Corporation. Rotary lawn mower with rearward foot guard assembly. 4,671,052, 6-9-87, Cl. 56-17.400.

Martin, Howard. Chemical disinfectant and sterilant. 4,654,374, 3-31-87, Cl. 514-698.000.

Martin, Howard. Four sided root canal rasp for root canal preparation. 4,661,061, 4-28-87, Cl. 433-102.000.

Martin, Howard. Endodontic access bur with extended diamond coat and method for using. 4,684,346, 8-4-87, Cl. 433-166.000.

Martin, Hubert C., Jr.; Hitler, Gene D.; and Parsley, David W., to Sperry Corporation. Power density spectrum controller. 4,638,417, 1-20-87, Cl. 363-41.000.

Martin, Ivan W. Aseptic connector assembly for conduits for sterile fluids. 4,673,400, 6-16-87, Cl. 604-283.000.

Martin, J. Kell, III: *See*—
Whitney, Douglass G.; and Martin, J. Kell, III, 4,634,431, Cl. 604-155.000.

Martin, Jack. Apparatus for drying hair from the inside out. 4,692,594, 9-8-87, Cl. 219-373.000.

Martin, Jack R., to General Electric Company. Bowed turbine blade. 4,682,935, 7-28-87, Cl. 416-223.00A.

Martin, Jacob H.: *See*—
Dawson, Thomas F.; Ewing, Paul C., Jr.; Dafnoulelis, Christos V.; and Martin, Jacob H., 4,648,212, Cl. 51-165.00R.

Martin, James A. Dental instrument. 4,698,019, 10-6-87, Cl. 433-144.000.

Martin, James A.: *See*—
Hartmann, Wilhelm U.; and Martin, James A., 4,637,877, Cl. 210-347.000.

Martin, James B., Jr. System for heating and cooling liquids. 4,653,287, 3-31-87, Cl. 62-181.000.

Martin, James C.; and Olson, Jay H., to Deere & Company. Method and apparatus for precise positioning of a seed disk in a seed meter. 4,664,290, 5-12-87, Cl. 221-211.000.

Martin, James L.: *See*—
Clark, Roger L.; Ray, Dennis D.; and Martin, James L., 4,641,338, Cl. 379-328.000.

Martin, James M.; Brockett, William S.; Selleck, Ronald R.; and Croteau, Michael G., to Martin Marietta Corporation. Fiber-optic rotation rate sensor having dual interferometer loops. 4,639,138, 1-27-87, Cl. 356-350.000.

Martin, James P.: *See*—
Hubble, Fred F., III; Bullock, Randolph H.; Cheung, Li-Fung; Crumrine, Robert E.; Martin, James P.; White, Peter P.; and Zomorrodi, Mehrdad, 4,670,647, Cl. 250-214.0AG.

Martin, James R.; and Guthrie, Kenneth R., to Cues, Inc. Method and apparatus for inspecting lateral lines. 4,651,558, 3-24-87, Cl. 73-40.50R.

Martin, James W., to Engineering Patents & Equipment Limited. Aircraft ejection seats. 4,676,462, 6-30-87, Cl. 244-122.0AG.

Martin, James W., to Engineering Patents & Equipment Limited. Parachute system and aircraft ejection seat incorporating the same. 4,709,885, 12-1-87, Cl. 244-141.000.

Martin, Jean; and Peletan, Rene , to Framatome & Cie. Device for operating a cluster of neutron absorber elements in a pressurized water nuclear reactor. 4,683,102, 7-28-87, Cl. 376-209.000.

Martin, Jean-Pierre H.; Pozzi, Jean-Pierre A.; and Despax, Damien M., to Compagnie Francaise des Petroles. Magnetic probe exploration device for determining residual fossil magnetization of well hole rocks. 4,646,025, 2-24-87, Cl. 324-346.000.

Martin, Jeffrey A.; and Pomeroy, Philip S., to Kimberly-Clark Corporation. Disposable surgical drape for cardiovascular procedures. 4,664,103, 5-12-87, Cl. 128-132.00D.

Martin, Jerold: *See*—
Degen, Peter J.; Martin, Jerold; Schriefer, Judy; and Shirley, Brenda. 4,693,985, Cl. 436-531.000.

Martin, Jerome L.: *See*—
Williams, Robert D.; Bright, David R.; Young, Vernon V.; and Martin, Jerome L., 4,654,334, Cl. 514-184.000.

Martin, Johannes J. E. Grate bar for use in industrial furnaces. 4,672,947, 6-16-87, Cl. 126-163.00R.

Martin, John; White, Ronald W.; and White, Johnnie L., Jr. Multi-color engraving system. 4,706,565, 11-17-87, Cl. 101-151.000.

Martin, John C.: *See*—
Verheyden, Julien P. H.; Martin, John C.; Madhavan, G. V. Bindu; McGee, Daniel P. C.; and Prisbe, Ernest J., 4,704,392, Cl. 514-267.000.

Martin, John F.: *See*—
Morse, Albert I.; and Martin, John F., 4,659,420, Cl. 156-556.000.
Simmonds, Robert C., Jr.; Crowell, Douglas H.; and Martin, John F., 4,681,650, Cl. 156-378.000.

Martin, John H.: *See*—
Lee, May D.; Martin, John H.; Borders, Donald B.; Yao, Raymond C.; and Testa, Raymond T., 4,677,071, Cl. 435-253.000.
Martin, John H. E. J., deceased: *See*—
Kirby, Jane P.; Fantini, Amedeo A.; Borders, Donald B.; Testa, Raymond T.; and Martin, John H. E. J., deceased, 4,650,765, Cl. 435-254.000.
Martin, John K.: *See*—
Edwards, John C.; Allen, Gerald J.; Martin, John K.; and Summers, Malcolm R., 4,666,863, Cl. 436-514.000.
Martin, John R.: *See*—
Leigh, Arthur G.; and Martin, John R., 4,706,802, Cl. 206-0.500.
Martin, John W.; and Martin, Judith T. Collapsible enclosure apparatus. 4,659,136, 4-21-87, Cl. 296-100.000.
Martin, Jose R.: *See*—
Barone, Hector D.; and Martin, Jose R., 4,705,516, Cl. 623-2.000.
Martin, Joseph B.; Millard, William; and Sagar, Stephen, to Massachusetts General Hospital. Method of treating prolactin-related disorders. 4,657,932, 4-14-87, Cl. 514-665.000.
Martin, Joseph R., to Jomar International, Ltd. Sink strainer having a magnet. 4,692,948, 9-15-87, Cl. 4-286.000.
Martin, Judith T.: *See*—
Martin, John W.; and Martin, Judith T., 4,659,136, Cl. 296-100.000.
Martin, Kenneth A., to Combustion Engineering, Inc. Multilayer diaphragm for pressure transducer. 4,676,108, 6-30-87, Cl. 73-722.000.
Martin, Kenneth W. Stable voltage controlled oscillator. 4,675,617, 6-23-87, Cl. 331-1.00A.
Martin, Laurent: *See*—
Bethuel, Louis; Martin, Laurent; and Dujardin, Thierry, 4,636,290, Cl. 204-186.000.
Martin, Lawrence L.; Setescak, Linda L.; and Scott, Susan J., to Hoechst-Roussel Pharmaceutical Inc. Benzo(c)-1,5-naphthyridines useful for treating a patient having drug induced memory impairment in need of memory enhancement. 4,652,567, 3-24-87, Cl. 514-254.000.
Martin, Lawrence L.; Setescak, Linda L.; and Scott, Susan J., to Hoechst-Roussel Pharmaceuticals Inc. Dihydropyrrolo[1,2-b]isoquinolinedione oximes. 4,670,562, 6-2-87, Cl. 546-94.000.
Martin, Lendell, Sr. Ventilating air distributor. 4,665,806, 5-19-87, Cl. 98-40.120.
Martin, Leonard G. Band saw stand. 4,677,887, 7-7-87, Cl. 83-788.000.
Martin, Manfred: *See*—
Baumgart, Rudolf; Martin, Manfred; Low, Lothar; and Scheven, Gunter, 4,681,720, Cl. 264-150.000.
Martin, Maria L.: *See*—
Chaiet, Louis; Zimmerman, Sheldon B.; Monaghan, Richard L.; and Martin, Maria L., 4,670,466, Cl. 514-547.000.
Martin, Marie-Josephe: *See*—
Varon, Jacques J.; Martin, Marie-Josephe; and Mahieu, Marc, 4,646,116, Cl. 357-17.000.
Martin Marietta Corporation: *See*—
Barmat, Melvin, 4,689,625, Cl. 342-356.000.
Brupbacher, John M.; Christodoulou, Leontios; and Nagle, Dennis C., 4,710,348, Cl. 420-129.000.
Clark, Benton C.; and Crumbaker, Todd E., 4,651,012, Cl. 250-505.100.
George, Ronald W.; Ohmart, James G.; Irlesberger, Kurt H.; Michaud, Lawrence L.; and Engelhaupt, Darell E., 4,648,944, Cl. 204-1.001.
Irlesberger, Kurt H.; and Engelhaupt, Darell E., 4,647,365, Cl. 204-434.000.
Martin, James M.; Brockett, William S.; Selleck, Ronald R.; and Croteau, Michael G., 4,639,138, Cl. 356-350.000.
Nobles, William O., 4,715,566, Cl. 244-159.000.
Rempt, Raymond D.; and Wolfert, Ludwig G., 4,671,659, Cl. 356-358.000.
Sequeira, Hermann B., 4,677,404, Cl. 333-238.000.
Sequeira, Hermann B., 4,689,584, Cl. 333-1.100.
Sequeira, Hermann B., 4,689,585, Cl. 333-24.200.
Staudinger, Frank X., 4,635,341, Cl. 29-566.300.
Martin Marietta Energy Systems, Inc.: *See*—
Liu, Chain T.; and Koch, Carl C., 4,711,761, Cl. 420-459.000.
Martin, Marshall H., to Indicator Controls Corporation. Microprocessor controlled loop detector system. 4,680,717, 7-14-87, Cl. 364-436.000.
Martin, Mary B., executrix: *See*—
Kirby, Jane P.; Fantini, Amedeo A.; Borders, Donald B.; Testa, Raymond T.; and Martin, John H. E. J., deceased, 4,650,765, Cl. 435-254.000.
Martin, Mary S.; McCord, Elizabeth; Puckett, Harley D., Jr.; and Scrutchin, Thomas W., Jr., to International Business Machines Corporation. Apparatus and method for processing system printing data records on a page printer. 4,649,513, 3-10-87, Cl. 364-900.000.
Martin, Matthew; and Ludwig, Richard H., to Westinghouse Electric Corp. Elevator system. 4,648,488, 3-10-87, Cl. 187-126.000.
Martin, Merrill D. Unwind stand for web rolls. 4,693,433, 9-15-87, Cl. 242-58.600.
Martin, Michael C., to Texaco Inc. Control process for gasification of solid carbonaceous fuels. 4,666,462, 5-19-87, Cl. 48-197.00R.
Martin, Michael R.: *See*—
Rogers, John H.; Hopper, Michael J.; and Martin, Michael R., 4,659,523, Cl. 264-1.300.
Martin, Michael T.: *See*—
Boser, Ronald J.; and Martin, Michael T., 4,660,821, Cl. 271-10.000.
Martin, Michael W., to International Computers Limited. Computer system having conversion of operation codes. 4,639,865, 1-27-87, Cl. 364-200.000.
Martin, Michel; and Rollat, Alain, to Rhone-Poulenc Specialites Chimiques. Electrolytic separation of cerium/rare earth values. 4,676,957, 6-30-87, Cl. 423-21.500.
Martin, Patricia A.: *See*—
Hereth, Michael R.; and Martin, Patricia A., 4,710,903, Cl. 365-194.000.
Martin, Patrick H.: *See*—
Parker, Theodore L.; and Martin, Patrick H., 4,661,578, Cl. 528-98.000.
Martin, Peter; Wyatt, Avis N., Jr.; Alonso, Hector; Rowe, Norman R.; Southard, Robert S.; and Zimmermann, Stephen G., to Philip Morris Incorporated. Method and apparatus for detecting and removing foreign material from a stream of particulate matter. 4,657,144, 4-14-87, Cl. 209-546.000.
Martin, Peter D. Memorial holders for cremation ashes. 4,669,236, 6-2-87, Cl. 52-100.000.
Martin, Peter G.; Westerman, S. Thomas; and Gilbert, Liane M., to National Patent Analytical Systems, Inc. Computer-aided drug-abuse detection. 4,715,386, 12-29-87, Cl. 128-733.000.
Martin, Philip N. Projectile powered piston. 4,691,803, 9-8-87, Cl. 181-113.000.
Martin, Pierre, to Ciba-Geigy Corporation. Microbicidal compositions. 4,687,861, 8-18-87, Cl. 548-565.000.
Martin, Pierre; and Lang, Robert W., to Ciba-Geigy Corporation. Production for producing 3-cyano-4-phenyl indoles and intermediates. 4,705,801, 11-10-87, Cl. 514-423.000.
Martin, Pierre, to Ciba-Geigy Corporation. Process for the preparation of 4-phenylpyrrole derivatives. 4,709,053, 11-24-87, Cl. 548-561.000.
Martin, Pierre: *See*—
Steiner, Eginhard; and Martin, Pierre, 4,665,186, Cl. 546-250.000.
Martin, R. Craig, to JM Industries, Inc. Apparatus for mounting an advertising display unit for use with a public telephone. 4,706,399, 11-17-87, Cl. 40-584.000.
Martin, R. Gregory: *See*—
Offe, Darrell L.; and Martin, R. Gregory, 4,711,086, Cl. 60-253.000.
Martin, Raymond G.: *See*—
Gehman, Roland P.; and Martin, Raymond G., 4,708,358, Cl. 280-402.000.
Martin, Raymond H., to Cosden Technology, Inc. Apparatus for forming deep containers. 4,668,175, 5-26-87, Cl. 425-388.000.
Martin, Rene : *See*—
Duchet, Christian; and Martin, Rene , 4,683,448, Cl. 332-7.510.
Martin, Richard L., to Hemex Scientific, Inc. Two-piece heart valve holder/rotator. 4,683,883, 8-4-87, Cl. 128-303.00R.
Martin, Richard R.: *See*—
Walsh, Richard F.; Franks, James A.; and Martin, Richard R., 4,658,371, Cl. 364-550.000.
Martin, Richard T., to Applied Magnetics Corp. Apparatus for accurately registering a first member and a second member in an interdependent relationship. 4,633,810, 1-6-87, Cl. 118-721.000.
Martin, Richard T., to Applied Magnetics Corporation. Stabilized mask assembly for direct deposition of a thin film pattern onto a substrate. 4,676,193, 6-30-87, Cl. 118-720.000.
Martin, Richard W.: *See*—
Macemon, Herbert J.; Fisher, John L.; Piatt, Clair E.; Martin, Richard W.; Winbigler, Paul H.; and Aishton, Thomas H., 4,665,952, Cl. 140-92.200.
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Ackerman, Allen D.; Perkey, Conrad G.; Martin, Robert A.; and Justusson, William M., 4,638,846, Cl. 164-55.100.
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Strong, Bobby D.; Martin, Robert C.; Ovens, Kevin M.; and Salzman, James F., 4,704,548, Cl. 307-456.000.
Martin, Robert H.; Rozelle, Bradley J.; and Breier, Thomas J., to Lietz Company, The. Article supporting bracket for survey tripod. 4,641,804, 2-10-87, Cl. 248-205.100.
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Shores, Rex W.; Martin, Robert H.; and Maclean, George, 4,662,626, Cl. 271-305.000.
Martin, Robert J., to Aluminum Company of America. Apparatus for straightening electrode rods. 4,667,501, 5-26-87, Cl. 72-403.000.
Martin, Robert J., to Blue Bell, Inc. Binary coding system. 4,707,612, 11-17-87, Cl. 250-568.000.
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Martin, Eugene W.; and Martin, Robert J., 4,648,639, Cl. 292-167.000.
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Martin, Robert P., Jr. Offset wiper drive. 4,675,933, 6-30-87, Cl. 15-250.300.
Martin, Robert P., Jr. Fabric cab. 4,688,846, 8-25-87, Cl. 296-102.000.
Martin, Robert P., Jr. Cab construction. 4,702,516, 10-27-87, Cl. 296-190.000.
Martin, Robert W. Shaker head expander. 4,633,716, 1-6-87, Cl. 73-663.000.

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Martin, Roland: *See*—
Briffod, Jean P.; and Martin, Roland, 4,652,717, Cl. 219-69.00W.
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Murphy, Kenneth E.; Martin, Ronald A.; and Nies, Gary M., 4,696,660, Cl. 464-170.000.
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Martin, Ronald R.; and Witcher, Clifford E., Jr., to Southwire Company. Continuous vulcanization interface control. 4,657,969, 4-14-87, Cl. 525-51.000.
Martin, Russel A.; and Buhler, Steven A., to Xerox Corporation. High voltage depletion mode transistor with serpentine current path. 4,680,605, 7-14-87, Cl. 357-23.110.
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Martin Saint Leon, Daniel, to Estee Lauder Inc. Apparatus for fabricating a container with metal skin. 4,651,397, 3-24-87, Cl. 29-243.520.
Martin, Sharon P.: *See*—
Brown, Michael; Martin, Sharon P.; Seaton, Andrew; Snowsill, Phillip J.; Thomas, Mark S.; and Williams, Hywel, 4,657,479, Cl. 415-138.000.
Martin, Sidney H., to International Computers Limited. Equipment cabinets having sliding closure. 4,643,333, 2-17-87, Cl. 220-345.000.
Martin S.A.: *See*—
Capdebosc, Bernard, 4,711,172, Cl. 101-152.000.
Martin, Stephen A.; Landis, Terry L.; and Bizzigotti, Richard A., to Ivac Corporation. System for mounting a drop sensor to a drip chamber. 4,668,216, 5-26-87, Cl. 604-30.000.
Martin, Stewart O.: *See*—
Extance, Philip; Jones, Roger E.; and Martin, Stewart O., 4,692,703, Cl. 324-251.000.
Martin, Stuart R.: *See*—
Elias, Kenneth L.; Martin, Stuart R.; and Slattery, William J., 4,659,585, Cl. 427-5.000.
Martin, Sylvia: *See*—
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Martin, Thomas E. Pressure washer systems analyzer. 4,697,464, 10-6-87, Cl. 73-866.300.
Martin, Thomas S. Face mask. 4,641,379, 2-10-87, Cl. 2-9.000.
Martin, Thomas W., to Minnesota Mining and Manufacturing Company. Dental polishing tip. 4,636,171, 1-13-87, Cl. 433-134.000.
Martin, Timothy J., Jr.; and Henry, Richard T., to Martin, Timothy J., Jr. Apparatus and methods for dispensing compacted materials. 4,693,394, 9-15-87, Cl. 222-1.000.
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Martin, Timothy S.; and Arndt, Douglas C., to Identicator Corp. Fingerprint card holder. 4,702,194, 10-27-87, Cl. 118-31.500.
Martin, Timothy S.: *See*—
Tofield, Joshua J.; Burkhardt, Boyd R.; Martin, Timothy S.; and Economidy, Byron G., 4,676,802, Cl. 623-66.000.
Martin, Victor G. Electronic calendar and method for randomly selecting and displaying messages. 4,712,923, 12-15-87, Cl. 368-10.000.
Martin, Wayne H.: *See*—
Devensky, Walter L.; and Martin, Wayne H., 4,647,926, Cl. 340-947.000.
Martin, William: *See*—
Lamson, Frederick W.; Lansing, Richard; Decheim, Robert; and Martin, William, 4,673,092, Cl. 211-188.000.
Martin, William A., to Eastman Kodak Company. Apparatus and method for editing electronically-displayed pictures. 4,660,101, 4-21-87, Cl. 358-342.000.
Martin, William A., to Eastman Kodak Company. Method for retrieving unedited video still pictures. 4,685,001, 8-4-87, Cl. 358-342.000.
Martin, William B. Stair-climbing wheel utilizing an involute curve configuration. 4,674,757, 6-23-87, Cl. 280-5.260.
Martin, William C.: *See*—
Swensen, Michael W.; Martin, William C.; and Kight, Henry H., 4,644,443, Cl. 361-384.000.
Martin, William J.; and Chun, John M., to Whirlpool Corporation. Quick release wand for cannister vacuum cleaner. 4,700,429, 10-20-87, Cl. 15-377.000.
Martin, William J., to Motorola, Inc. Injection switch and directional coupler. 4,701,724, 10-20-87, Cl. 333-103.000.
Martin, William J.: *See*—
Keane, James W.; and Martin, William J., 4,658,465, Cl. 15-323.000.
Martinak, Bonifac. Man made floating island. 4,683,719, 8-4-87, Cl. 60-398.000.
Martindell, J. Richard. Handle adapter and chuck apparatus for power bits. 4,692,073, 9-8-87, Cl. 408-239.00A.
Martineau, Robert J.: *See*—
Devaney, Christopher M.; Martineau, Robert J.; Miles, John L.; and Wong, Theodore T. S., 4,634,493, Cl. 156-616.00R.
Martinek, Norman A., to M-B Company, Inc. of Wisconsin. Anti-shimmy caster wheel assembly using a speed sensor and braking action about the vertical axis. 4,667,365, 5-26-87, Cl. 16-35.00D.
Martinell, Rudolf H.: *See*—
Hallberg, Rolf O.; and Martinell, Rudolf H., 4,683,064, Cl. 210-605.000.
Martinell, Steven W.: *See*—
Dalebout, William T.; Vassoughi, Sohrab; Martinell, William J.; Rohrer, David C.; Martinell, Steven W.; and Marchant, Robert L., 4,684,126, Cl. 272-134.000.
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Libertini, Zoltan; Jen, Hsianmin; and Martinelli, James, 4,643,636, Cl. 415-138.000.
Martinelli, Mario, to CISE-Centro Informazioni Studi Esperienze S.p.A. Interferometric detector with fibre-optic sensor. 4,652,129, 3-24-87, Cl. 356-345.000.
Martinelli, Robert M., to Mullett Associates, Inc. Uninterruptible power supply. 4,638,176, 1-20-87, Cl. 307-64.000.
Martinelli, Robert M., to Keller-Mullett Technology. Transformer-coupled two-inductor buck converter. 4,674,019, 6-16-87, Cl. 363-20.000.
Martinelli, Robert M.: *See*—
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Martinen, Hinrich; Simonsson, Samuel S.; and Wirth, Peter, to Rofin-Sinar Laser. Laser-machining apparatus. 4,634,831, 1-6-87, Cl. 219-121.0LG.
Martinet, Roland; and Casas, Alain, to Climax France S.A. Modular system of distribution. 4,640,311, 2-3-87, Cl. 137-884.000.
Martinetti, Patrick J. Method of treating respiratory disease in animals. 4,654,214, 3-31-87, Cl. 424-195.100.
Martinez, Antonio, to Conitex, Inc. Product for preventing yarn tail breakage during yarn winding. 4,700,834, 10-20-87, Cl. 206-388.000.
Martinez, Antonio, to Conitex, Inc. Method for preventing yarn tail breakage during yarn winding. 4,700,904, 10-20-87, Cl. 242-18.00R.
Martinez, Antonio, Jr., to Atel Corporation. Brake rod extension indicator. 4,642,603, 2-10-87, Cl. 340-52.00B.
Martinez, Armando. Device for storing dental floss and for forming three separately-usable strips of floss for use with tensioning means. 4,637,412, 1-20-87, Cl. 132-92.00R.
Martinez, Carlos M., to Breval S.A. Liquefied gas igniter. 4,669,975, 6-2-87, Cl. 431-344.000.
Martinez, Cesar G., to Roto-Flex Oven Co. Barbecue oven. 4,643,163, 2-17-87, Cl. 126-41.00A.
Martinez-Corral, Cecilio, to Valeo. Clutch, in particular for automobile vehicles. 4,655,333, 4-7-87, Cl. 192-70.270.
Martinez-Corral, Cecilio; and Lacal-Ruiz, Pedro, to Valeo. Clutch cover assembly and pressure plate for same. 4,667,794, 5-26-87, Cl. 192-70.120.
Martinez, David R., to Atlantic Richfield Company. Method and apparatus for correcting distorted seismic data. 4,646,274, 2-24-87, Cl. 367-41.000.
Martinez, David R., to Atlantic Richfield Company. Method of suppressing vibration seismic signal correlation noise. 4,707,812, 11-17-87, Cl. 367-46.000.
Martinez, Donald G. Turf plug pusher. 4,712,623, 12-15-87, Cl. 172-817.000.
Martinez, Edward. Gravity-magnetic ore separators and methods. 4,659,457, 4-21-87, Cl. 209-40.000.
Martinez, Egmont U.; Martinez, Jesus G.; and Harrell, Gary W., to Systemic Nutrigation Concepts. Method and apparatus for natural fertilization and irrigation of plants. 4,651,468, 3-24-87, Cl. 47-80.000.
Martinez, Felix J.; Fuller, Larry E.; and Irmiter, Richard J., to Renal Systems, Inc. Oxygenator having an improved heat exchanger. 4,645,645, 2-24-87, Cl. 422-46.000.
Martinez, Felix J.: *See*—
Lee, Jeffrey A.; and Martinez, Felix J., 4,645,494, Cl. 604-175.000.
Martinez, Guillermo J.: *See*—
Daily, Jeffrey N.; Orr, Bruce B.; and Martinez, Guillermo J., 4,653,935, Cl. 374-208.000.
Martinez, Irene. Razor with disposable blade. 4,665,615, 5-19-87, Cl. 30-53.000.
Martinez, Jean; Bali, Jean-Pierre; Castro, Bertrand; Nisato, Dino; and Demarne, Henri, to Sanofi; and Centre National de la Recherche Scientifique. Novel peptidic derivatives inhibiting gastric secretion, process for preparing them and drugs containing them. 4,636,490, 1-13-87, Cl. 514-15.000.
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Martinez, Jean: *See*—
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Auger, Genevieve; Lefrancier, Pierre; and Amor, Bernard, 4,680,276, Cl. 436-542.000.

Martinez, Jesus G.: *See*—
Martinez, Egmont U.; Martinez, Jesus G.; and Harrell, Gary W., 4,651,468, Cl. 47-80.000.

Martinez, Jorge, to Roman, Hugo. Color correlated game board and playing pieces. 4,634,129, 1-6-87, Cl. 273-255.000.

Martinez, Jose L. T.: *See*—
van Rooden, Bernardus J. M. S.; and Martinez, Jose L. T., 4,652,471, Cl. 427-411.000.

Martinez, Kenneth; and Mack, Gregory, to Paradyne. Viterbi decoder for wireline modems. 4,709,377, 11-24-87, Cl. 375-75.000.

Martinez, Kenneth: *See*—
Betts, William L.; and Martinez, Kenneth, 4,669,090, Cl. 375-8.000.
Betts, William L.; and Martinez, Kenneth, 4,677,624, Cl. 371-43.000.
Betts, William L.; Martinez, Kenneth; and Bremer, Gordon, 4,677,625, Cl. 371-43.000.
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Zuranski, Edward S.; and Martinez, Kenneth, 4,646,325, Cl. 375-39.000.

Martinez-Lope, Maria-Jesus: *See*—
Garcia-Clavel, Maria-Emilia; Martinez-Lope, Maria-Jesus; and Casais-Alvarez, Maria-Teresa, 4,670,231, Cl. 423-127.000.

Martinez, Louis, to McGraw-Edison Co. Integrated radio location and communication system. 4,651,156, 3-17-87, Cl. 342-457.000.

Martinez, Marvin G. Tortilla maker. 4,664,025, 5-12-87, Cl. 99-331.000.

Martinez, Miguel. Irrigating and aspirating handpiece for use in ophthalmic surgery. 4,652,255, 3-24-87, Cl. 604-27.000.

Martinez, Nelson P.; Galiasso, Roberto E.; Velasquez, Jose R.; Lujano, Juan; and Zerpa, Carlos, to Intevep, S.A. Method of preparation of mild hydrocracking catalyst for the production of middle distillates. 4,689,314, 8-25-87, Cl. 502-210.000.

Martinez, Nelson P.; Valasquez, Jose R.; and Lujano, Juan A., to Intevep, S.A. Vanadium passivating agent for use in a cracking catalyst. 4,704,375, 11-3-87, Cl. 502-64.000.

Martinez, Oscar G.: *See*—
Tapia, Graciano J.; and Martinez, Oscar G., 4,651,467, Cl. 47-58.000.

Martinez, Robert, to Vistakon, Inc. Package for hydrophilic contact lens. 4,691,820, 9-8-87, Cl. 206-205.000.

Martinez, Rodolphe: *See*—
Barbier, Gerard Y. G.; Leboure, Gerald J. P. B.; Desaulty, Michel A. A.; Martinez, Rodolphe; and Perigne, Jerome, 4,696,157, Cl. 60-39.230.

Martini, Francesco: *See*—
Vietto, Paolo; and Martini, Francesco, 4,687,711, Cl. 428-515.000.

Martini, Gino, to Tako S.p.A. Process for making reinforced sealing gaskets. 4,643,863, 2-17-87, Cl. 264-219.000.

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Martini, Stefan: *See*—
Hagin, Faust; Martini, Stefan; and Drewitz, Hans J., 4,647,084, Cl. 285-332.100.

Martinie, Howard, to Reliance Electric Company. Means for securing a bearing to a shaft. 4,687,351, 8-18-87, Cl. 384-541.000.

Martino, Germain: *See*—
Trinh Dinh, Chan; Desvard, Alain; and Martino, Germain, 4,714,688, Cl. 502-33.000.

Martino, Louis I.: *See*—
Gambuti, Patrick F.; and Martino, Louis I., 4,701,627, Cl. 296-21.000.

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Martino, Ronald J., to Bausch & Lomb Incorporated. Reticle plate having a fluorescing pattern. 4,710,636, 12-1-87, Cl. 250-467.100.

Martino, William L., Jr.: *See*—
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Martinola, Friedrich, to Bayer Aktiengesellschaft. Process and device for treating liquids with cation exchangers and anion exchanges. 4,645,604, 2-24-87, Cl. 210-675.000.

Martinola, Friedrich, to Bayer Aktiengesellschaft. Method for rendering visible the line of separation between cation exchangers and anion exchangers in mixed-bed filters. 4,666,608, 5-19-87, Cl. 210-675.000.

Martinola, Friedrich: *See*—
Heller, Harold; Lange, Peter M.; and Martinola, Friedrich, 4,705,637, Cl. 210-670.000.
Oeckl, Siegfried; Mitschker, Alfred; Lange, Peter M.; and Martinola, Friedrich, 4,695,556, Cl. 502-11.000.

Martinou, Robert; and Ruimi, Michel, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation (S.N.E.C.M.A.). Pickling process for heat-resistant alloy articles. 4,707,191, 11-17-87, Cl. 134-3.000.

Martinou, Robert: *See*—
Fournes, Jean-Paul; Lesgourgues, Jacques; and Martinou, Robert, 4,655,383, Cl. 228-119.000.

Martinray Industries Ltd.: *See*—
Labelle, H. M. Robert, 4,633,927, Cl. 160-133.000.
Labelle, H. M. Robert, 4,664,170, Cl. 160-133.000.

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Kramer, Dean C., 4,702,274, Cl. 137-515.500.

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Afian, Viktor V.; Vartanian, Albert V.; Martirosian, Ruben G.; Strebkov, Dmitry S.; and Ryabikov, Stanislav V., 4,682,841, Cl. 350-3.700.
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Martischius, Franz-Dieter; Karau, Dieter; Arnold, Werner; and Barthold, Klaus, to BASF Aktiengesellschaft. Process for optimizing the properties of aqueous polymer solutions used in polymer flooding. 4,675,348, 6-23-87, Cl. 523-323.000.

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Martner, John G. Ink jet method and apparatus utilizing a web of hot melt ink. 4,682,185, 7-21-87, Cl. 346-140.00R.

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Hall, Kenneth F.; and Chambers, George, 4,635,887, Cl. 248-179.000.

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Hedglin, Walter L.; and Martodam, Raymond R., 4,634,691, Cl. 514-108.000.

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Martone, Ronald J.: *See*—
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Schonafinger, Karl; Bohn, Helmut; Martorana, Piero; and Nitz, Rolf-Eberhard, 4,681,891, Cl. 514-340.000.
Zoller, Gerhard; Beyerle, Rudi; Just, Melitta; Martorana, Piero; Bohn, Helmut; and Nitz, Rolf-Eberhard, 4,666,902, Cl. 514-212.000.

Marts, Maynard W.; and Mendoza, Michael F., to Cessna Aircraft Company, The. Low leakage solenoid valve. 4,666,125, 5-19-87, Cl. 251-129.190.

Martucci, David J., to An-Son Petrochemical, Inc. Methods of using strong acids modified with acid solutions. 4,675,120, 6-23-87, Cl. 252-8.553.

Martucci, James P.: *See*—
Figler, Alan A.; Grimm, Daniel J.; Goloski, Leonard F.; and Martucci, James P., 4,647,219, Cl. 374-1.000.

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Broden, David E.; Martwick, Wilford E.; and Warren, John B., 4,709,638, Cl. 102-522.000.

Marty, Garry R., to Masco Corporation of Indiana. Valve assembly. 4,700,928, 10-20-87, Cl. 251-310.000.

Marty, Jean-Pierre, to Roussel Uclaf. Cosmetic compositions. 4,699,778, 10-13-87, Cl. 424-59.000.

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Martyak, Nicholas M.; Corsentino, John A.; and McMullen, Warren H., to M&T Chemicals Inc. Activation composition and method for forming adherent chromium electrodeposits on ferrous metal substrates from high energy efficient baths. 4,711,705, 12-8-87, Cl. 204-34.000.

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Martys, Michael D.: *See*—
Abrant, Robert J.; Martys, Michael D.; and Tarleton, George K., 4,703,421, Cl. 364-200.000.
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Maru Kikai Kogyo Co., Ltd.: *See*—
Hongo, Toshio, 4,660,402, Cl. 72-389.000.

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Maruchi, Sachio: *See*—
Shibano, Tomishi; Kimura, Itsuo; and Maruchi, Sachio, 4,636,432, Cl. 428-327.000.
Maruchi, Satoshi: *See*—
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Maruhashi, Seiji: *See*—
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Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, 4,657,641, Cl. 204-1.00T.
Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, 4,708,783, Cl. 204-423.000.
Maruhashi, Yoshitsugu; Tanikawa, Isao; and Hirata, Sadao, to Toyo Seikan Kaisha, Ltd. Process for preparation of coated oriented plastic container. 4,699,809, 10-13-87, Cl. 427-230.000.
Maruhashi, Yoshitsugu; Tanikawa, Isao; and Hirata, Sadao, to Toyo Seikan Kaisha, Ltd. Plastic vessel having oriented coating and process for preparation thereof. 4,714,580, 12-22-87, Cl. 264-516.000.
Maruhaski, Shigeaki: *See*—
Deguchi, Takenori; Uchida, Kazuko; Ikita, Takao; Maruhaski, Shigeaki; Hoshino, Kazuo; and Oosaki, Keiji, 4,696,724, Cl. 204-27.000.
Marui Industry Co., Ltd.: *See*—
Kondo, Isao; and Koguro, Yasuyuki, 4,707,935, Cl. 301-37.00P.
Nakagawa, Shigeru; and Uchikawa, Kiyotaka, 4,643,912, Cl. 427-57.000.
Nakagawa, Shigeru, 4,663,869, Cl. 40-219.000.
Yamabe, Taiji, 4,666,264, Cl. 350-641.000.
Maruishi Seiyaku Kabushiki Kaisha: *See*—
Sato, Nobukatsu; Kuraiyama, Haruo; and Agou, Masanobu, 4,714,764, Cl. 546-271.000.
Maruiwa, Yasuharu: *See*—
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,666,380, Cl. 418-55.000.
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,696,084, Cl. 29-156.40R.
Marukawa, Yuji: *See*—
Yamazaki, Toshinori; Nakanishi, Tatsuo; Marukawa, Yuji; Takenouchi, Shigeki; and Nomori, Hiroyuki, 4,673,629, Cl. 430-58.000.
Maruki, Hirosige, to Murata Kikai Kabushiki Kaisha. Yarn splicing apparatus with a yarn end untwisting device. 4,686,821, 8-18-87, Cl. 57-22.000.
Marukin Shoyu Co., Ltd.: *See*—
Sugimori, Tsunetake; Tsukada, Yoji; Uchida, Yoshihiro; and Ohta, Yasuhiro, 4,699,883, Cl. 435-232.000.
Maruko Seiyaku Co., Ltd.: *See*—
Ohno, Sachio; Ebihara, Yuko; Mizukoshi, Kiyoshi; Ichihara, Kenji; Ban, Takao; and Nagasaka, Mitsuaki, 4,713,457, Cl. 546-67.000.
Marukoshi Co., Ltd.: *See*—
Kobayashi, Yutaka, 4,657,519, Cl. 446-376.000.
Marulic, Walter J.: *See*—
Baker, William R.; Marulic, Walter J.; and Robertson, James C., 4,677,918, Cl. 105-378.000.
Maruman Golf Co., Ltd.: *See*—
Kobayashi, Masashi, 4,682,504, Cl. 73-854.000.
Kobayashi, Masashi, 4,690,408, Cl. 273-169.000.
Kobayashi, Masashi, 4,699,383, Cl. 273-169.000.
Kobayashi, Masashi, 4,708,347, Cl. 273-171.000.
Marumo, Takachi: *See*—
Bandou, Masaaki; Sugita, Masao; and Marumo, Takachi, 4,706,487, Cl. 72-355.000.
Marumoto, Yoshio: *See*—
Mizuno, Tetsuo; Marumoto, Yoshio; and Yamada, Kouji, 4,700,078, Cl. 250-566.000.
Maruno, Naohiko; Abe, Masakazu; and Ogawa, Tetsuo, to Nagano Keiki Seisakusho, Ltd. Gas pressure transducer. 4,684,842, 8-4-87, Cl. 310-316.000.
Maruno, Susumu; Nakata, Shinobu; Nagahiro, Michinori; and Minamide, Seiko, to Matsushita Electric Industrial Co., Ltd. Gradation thermal printhead and gradation heat transfer printing apparatus. 4,712,930, 12-15-87, Cl. 400-120.000.
Maruno, Tooru; Nakamura, Kouzaburou; and Sasaki, Shigekuni, to Nippon Telegraph & Telephone Public Corporation. Optical adhesive composition. 4,637,939, 1-20-87, Cl. 427-162.000.
Maruoka, Kuniaki; Takahashi, Nobuyuki; Tujimura, Senkichi; Yamashita, Yasuhiko; Otsuka, Setsuo; Oohasi, Isao; and Motoyama, Takeo, to Nippon Steel Corporation. Process for producing, by continuous annealing, soft blackplate for surface treatment. 4,698,102, 10-6-87, Cl. 148-2.000.
Maruska, Gerald F. Method and apparatus for peeling sausage. 4,637,095, 1-20-87, Cl. 17-49.000.
Maruta, Masamichi: *See*—
Kondo, Takeshi; Maruta, Masamichi; and Oshio, Hideki, 4,647,695, Cl. 562-605.000.
Maruta, Riichiro: *See*—
Inoue, Takayuki; Hattori, Masafumi; Hayama, Kazuhide; and Maruta, Riichiro, 4,698,395, Cl. 525-327.800.
Mayumi, Junji; and Maruta, Riichiro, 4,692,357, Cl. 427-393.500.
Maruta, Rikio, to NEC Corporation. Method and apparatus for converting an analog signal to a digital signal using an oversampling technique. 4,684,925, 8-4-87, Cl. 340-347.0AD.
Maruta, Shuichiro, to Kabushiki Kaisha Toshiba. Monostable multivibrator. 4,667,118, 5-19-87, Cl. 307-273.000.
Marutamaya Ogatsu Fireworks Co., Ltd.: *See*—
Ogatsu, Motohiro, 4,641,580, Cl. 102-217.000.
Maruwa Echo Co. Ltd.: *See*—
Kaneko, Katsuyoshi, 4,655,329, Cl. 190-107.000.
Maruya, Takeshi; and Yamazaki, Katuyuki, to Honda Giken Kogyo Kabushiki Kaisha; and Idemitsu Kosan Company, Ltd. Fuel composition for spark-ignition engine. 4,670,022, 6-2-87, Cl. 44-68.000.
Maruyama, Asao; and Miyagawa, Kohzo, to Tsubakimoto Chain Co. Automatic storing equipment. 4,639,187, 1-27-87, Cl. 414-787.000.
Maruyama, Eiichi; Fujikura, Makoto; Matsubara, Hirokazu; and Shimada, Toshikazu, to Hitachi, Ltd. Electrophotographic member having multilayered amorphous silicon photosensitive member. 4,672,015, 6-9-87, Cl. 430-57.000.
Maruyama, Eiichi: *See*—
Shiraki, Yasuhiro; Katayama, Yoshifumi; Murayama, Yoshimasa; Morioka, Makoto; Sawada, Yasushi; Mishima, Tomoyoshi; Kuroda, Takao; and Maruyama, Eiichi, 4,673,959, Cl. 357-22.000.
Maruyama, Hidekazu; and Fujimaki, Kazuo. Auxiliary seat assembly for use in vehicles, 4,639,037, 1-27-87, Cl. 297-334.000.
Maruyama, Hidekazu, to Ikeda Bussan Co., Ltd. Folding seat. 4,652,051, 3-24-87, Cl. 297-332.000.
Maruyama, Hidekazu, to Ikeda Bussan Co., Ltd. Seat with garnished seat cushion. 4,691,966, 9-8-87, Cl. 297-452.000.
Maruyama, Hiromi; and Ohnishi, Tadahiro, to Hitachi, Ltd. Control rod for nuclear reactor. 4,655,999, 4-7-87, Cl. 376-333.000.
Maruyama, Hiromi: *See*—
Aoyama, Motoo; Maruyama, Hiromi; Umegaki, Kikuo; and Uchikawa, Sadao, 4,695,425, Cl. 376-435.000.
Maruyama, Hiroshi; Mizushima, Kunio; Sakemoto, Akito; and Umebayashi, Nobuhiro, to Hitachi Maxell, Ltd. Recording disc cartridge having an improved hub assembly. 4,695,910, 9-22-87, Cl. 360-133.000.
Maruyama, Hiroshi: *See*—
Kato, Yoshitake; Fujita, Minoru; and Maruyama, Hiroshi, 4,714,973, Cl. 360-133.000.
Maruyama, Hitoshi; Ono, Isao; Kohno, Hiroji; Yamauchi, Junnosuke; and Okaya, Takuji, to Kuraray Co., Ltd. Water resistant composition and heat-sensitive recording sheet containing the same. 4,708,947, 11-24-87, Cl. 503-209.000.
Maruyama, Ichiro: *See*—
Tsuji, Yoshiomi; Maruyama, Ichiro; and Takuma, Hiroshi, 4,696,598, Cl. 405-115.000.
Maruyama, Katsuaki; Oishi, Yaichi; Terada, Takami; and Hyodo, Motoi, to Toyota Jidosha Kogyo Kabushiki Kaisha; and Aisin Seiki Kabushiki Kaisha. Device for adjusting height of front part of seat cushion of seat. 4,652,049, 3-24-87, Cl. 297-284.000.
Maruyama, Kazou: *See*—
Kurita, Akitsugu; Maruyama, Kazou; Okusa, Akira; and Hayashi, Haruo, 4,656,221, Cl. 524-731.000.
Maruyama, Kazumi, to Fuji Electric Co., Ltd. Plasma CVD apparatus. 4,633,811, 1-6-87, Cl. 118-723.000.
Maruyama, Kazuo: *See*—
Horie, Kiyoshi; Noami, Tsuneo; Masuda, Koji; Saitoh, Koichi; Maruyama, Kazuo; Fujimura, Yoshihiko; Suemitsu, Yuji; and Yamamoto, Toshiro, 4,653,896, Cl. 355-3.0DD.
Satake, Toshimi; Minami, Toshiaki; Maruyama, Kazuo; and Fujimura, Fumio, 4,644,375, Cl. 346-209.000.
Maruyama, Kenji; and Kobayashi, Takehiro, to Ryobi Ltd. Spinning reel having improved bail arm mechanism. 4,705,228, 11-10-87, Cl. 242-84.20G.
Maruyama, Kimiaki: *See*—
Dunbar, Joseph E.; Hedstrand, David M.; and Maruyama, Kimiaki, 4,661,520, Cl. 514-609.000.
Dunbar, Joseph E.; and Maruyama, Kimiaki, 4,689,348, Cl. 514-609.000.
Dunbar, Joseph E.; and Maruyama, Kimiaki, 4,692,467, Cl. 514-609.000.
Maruyama, Kiyoshi: *See*—
Dias, Daniel M.; Kumar, Manoj; Lien, Yeong-Chang L.; and Maruyama, Kiyoshi, 4,679,190, Cl. 370-60.000.
Iimura, Kyosuke; and Maruyama, Kiyoshi, 4,641,896, Cl. 312-110.000.
Maruyama, Koji: *See*—
Shibasaki, Sohei; Iwasaki, Yasumasa; Ono, Noriki; Arai, Koichi; Maruyama, Koji; and Shimanari, Tatsumi, 4,648,706, Cl. 355-43.000.
Maruyama, Kouichi: *See*—
Matsui, Shigekazu; Kagaya, Kenichi; Ushida, Masao; and Maruyama, Kouichi, 4,696,877, Cl. 430-5.000.
Maruyama, Kouji; Nomura, Takeshi; Ueno, Hiroshi; and Inaba, Naomi, to Toa Nenryo Kogyo Kabushiki Kaisha. Process for polymerization of olefins. 4,686,265, 8-11-87, Cl. 526-125.000.
Maruyama, Kyusuke: *See*—
Makabe, Eiichi; Uesugi, Mitsuaki; Inomata, Masaichi; Maruyama, Kyusuke; Iwai, Kenji; and Sano, Kazuo, 4,716,459, Cl. 358-106.000.
Maruyama, Masahiko: *See*—
Sannohe, Kunio; Otsuka, Kengo; Ito, Toshehiko; Maruyama, Masahiko; Kitano, Takafumi; and Hirayama, Makoto, 4,639,521, Cl. 546-141.000.

Maruyama, Masahiro: *See*—
Hata, Kanji; Itemadani, Eiji; and Maruyama, Masahiro, 4,708,232, Cl. 198-346.100.

Maruyama, Masanori; Moriya, Masamichi; Kato, Shinichi; Fukushima, Masakazu; Nonaka, Yasuhiko; and Ogusu, Chihaya, to Nippon Hoso Kyokai; and Hitachi, Ltd. Television camera tube device. 4,682,077, 7-21-87, Cl. 315-14.000.

Maruyama, Masanori; Takahashi, Kenji; Kudo, Koji; Hombaugh, Masanori; and Nagahara, Shusaku, to Hitachi, Ltd.; and Hitachi Denshi Kabushiki Kaisha. Apparatus for controlling the electron beam in a television camera tube. 4,716,468, 12-29-87, Cl. 358-219.000.

Maruyama, Masanori: *See*—
Oku, Kentaro; Fukushima, Masakazu; Suzuki, Hitomi; and Maruyama, Masanori, 4,701,668, Cl. 315-17.000.
Satou, Kazuhiro; Kudo, Koji; Maruyama, Masanori; Mimura, Itaru; and Nagahara, Shusaku, 4,701,679, Cl. 315-383.000.
Takayama, Shigehiko; Suzuki, Hitomi; Maruyama, Masanori; Fukushima, Masakazu; and Kurashige, Mitsuhiro, 4,713,588, Cl. 315-382.000.

Maruyama, Masao: *See*—
Kimura, Kazuo; and Maruyama, Masao, 4,708,696, Cl. 474-103.000.

Maruyama, Masaru: *See*—
Tanaka, Masataka; Ohto, Masao; Sekine, Tetsuo; Isobe, Koji; and Maruyama, Masaru, 4,643,196, Cl. 128-753.000.

Maruyama, Masayoshi: *See*—
Nakaya, Tsutomu; and Maruyama, Masayoshi, 4,697,757, Cl. 242-68.500.

Maruyama, Masuo: *See*—
Fukushima, Yasuhisa; Maruyama, Masuo; and Miyazaki, Benichi, 4,680,662, Cl. 360-133.000.

Maruyama, Mitsunori: *See*—
Wada, Shunichi; Shimomura, Setsuhiro; Kumagai, Naotake; Takizawa, Shozo; Maruyama, Mitsunori; Tatemoto, Minoru; Takada, Hiroyuki; and Harara, Mitsuhiko, 4,648,622, Cl. 280-707.000.

Maruyama, Nobuo: *See*—
Kato, Ippei; Takasu, Masao; and Maruyama, Nobuo, 4,645,566, Cl. 162-138.000.

Maruyama, Osamu: *See*—
Sakakibara, Shigeru; Arimoto, Shunji; Ishikawa, Hidenobu; and Maruyama, Osamu, 4,690,987, Cl. 525-502.000.

Maruyama, Ryoichi; and Kikuchi, Teruyoshi, to Kabushiki Kaisha Komatsu Seisakusho. Speed-change/steering system for crawler type vehicles. 4,663,987, 5-12-87, Cl. 74-687.000.

Maruyama, Ryoji: *See*—
Miyashita, Hideyuzu; and Maruyama, Ryoji, 4,676,589, Cl. 350-96.210.

Maruyama, Satoshi: *See*—
Kondo, Kazuo; and Maruyama, Satoshi, 4,687,615, Cl. 264-557.000.

Maruyama, Seiichi: *See*—
Shirakawa, Shingo; Maruyama, Seiichi; Nakano, Seizo; Okamoto, Eichi; and Kohara, Kenji, 4,675,773, Cl. 361-63.000.

Maruyama, Seiichiro; Hayashida, Hironori; Morita, Kazumasa; and Shiraishi, Yoshitaka, to Mitsubishi Chemical Industries Limited. Polyester resin composition. 4,707,512, 11-17-87, Cl. 524-504.000.

Maruyama, Takahito: *See*—
Kikuchi, Noboru; Nakamura, Tadashi; and Maruyama, Takahito, 4,657,417, Cl. 400-185.000.
Yanata, Saiji; Maruyama, Takahito; and Osakama, Chikashi, 4,654,673, Cl. 346-76.0PH.

Maruyama, Teruo; and Sekiguchi, Takuya, to Matsushita Electric Industrial Co., Ltd. Hydraulic servo actuator. 4,646,621, 3-3-87, Cl. 91-375.00R.

Maruyama, Tetsuzo, to Kabushiki Kaisha Swallow Ski. Injection skis and their process of manufacture. 4,681,725, 7-21-87, Cl. 264-46.500.

Maruyama, Tomoyuki: *See*—
Narue, Atsushi; Saitoh, Shigeru; and Maruyama, Tomoyuki, 4,702,722, Cl. 464-93.000.

Maruyama, Toshiki; Nakagawa, Hiroshi; and Maeda, Minoru, to Shinko Electric Co., Ltd. Linear pulse motor. 4,661,730, 4-28-87, Cl. 310-12.000.

Maruyama, Toshio; Shibuya, Noriaki; and Nakata, Yukihiko, to Sharp Kabushiki Kaisha. Charging and discharging control circuit for a storage battery. 4,714,868, 12-22-87, Cl. 320-5.000.

Maruyama, Tsutomu: *See*—
Harada, Yuho; Maruyama, Tsutomu; Kumakura, Yoshiyuki; and Kuwayama, Shigeo, 4,710,216, Cl. 65-4.100.
Jitsukawa, Hirotoshi; and Maruyama, Tsutomu, 4,670,880, Cl. 371-36.000.

Maruyama, Yasuo: *See*—
Suga, Yoshinori; Tanaka, Eiji; Enokido, Noouo; and Maruyama, Yasuo, 4,645,797, Cl. 525-191.000.

Maruyama, Yohichi: *See*—
Nakano, Jun; Nagahara, Michiko; Hayashida, Mitsuo; Suzuki, Yuji; and Maruyama, Yohichi, 4,652,566, Cl. 514-253.000.

Maruyama, Yoichiro: *See*—
Arisawa, Takashi; Maruyama, Yoichiro; Shiba, Koreyuki; Niwa, Toshio; Kaneko, Masaharu; and Ono, Hitoshi, 4,646,309, Cl. 372-53.000.
Arisawa, Takashi; Suzuki, Youji; Maruyama, Yoichiro; Kato, Masaaki; and Shiba, Koreyuki, 4,689,128, Cl. 204-157.220.

Maruyama, Yoshio; and Kabashima, Shoshi, to Matsushita Electric Industrial Co., Ltd. Valve nozzle for injection molding. 4,681,528, 7-21-87, Cl. 425-562.000.

Maruyama, Yuji; Otake, Kohei; and Kizaki, Hisao, to Maruyama, Yuji; and New Japan Radio Co., Ltd. Container, for fixing an animal to be tested in a biochemical test. 4,660,572, 4-28-87, Cl. 128-804.000.

Maruyama, Yuji: *See*—
Kobayashi, Takashi; and Maruyama, Yuji, 4,697,906, Cl. 354-416.000.

Maruyama, Yukihisa: *See*—
Kato, Heizaburou; and Maruyama, Yukihisa, 4,667,531, Cl. 74-567.000.

Maruyama, Yuuji: *See*—
Tsuchiya, Hiroyoshi; Kurosawa, Toshiharu; Otsuka, Hirotaka; Maruyama, Yuuji; and Nakazato, Katsuo, 4,692,811, Cl. 358-282.000.

Maruyamano, Satoru; and Ohtani, Hisao, to Toyota Jidosha Kabushiki Kaisha. Ventilation structure of clutch. 4,646,902, 3-3-87, Cl. 192-113.00A.

Maruyamano, Satoru; and Ohtani, Hisao, to Toyota Jidosha Kabushiki Kaisha. Clutch release mechanism. 4,655,335, 4-7-87, Cl. 192-99.00S.

Maruyasu Industries Co., Ltd.: *See*—
Saotome, Kaoru; Sasaki, Hiroyuki; and Kanbara, Katsuhiro, 4,705,244, Cl. 248-68.100.

Maruzen Petrochemical Co., Ltd.: *See*—
Fujiwara, Hiroshi; Matsumoto, Tadashi; and Sekiya, Masaaki, 4,709,009, Cl. 528-481.000.
Tsuchitani, Masatoshi; and Nakajima, Ryoichi, 4,705,618, Cl. 208-44.000.

Maruzen Sewing Machine Co., Ltd.: *See*—
Koshinaka, Osamu, 4,649,841, Cl. 112-129.000.
Matsuda, Kimikazu, 4,651,661, Cl. 112-254.000.
Mikuni, Yoshio, 4,638,750, Cl. 112-230.000.
Mikuni, Yoshio, 4,660,487, Cl. 112-230.000.
Mikuni, Yoshio; Tanaka, Osamu; and Matsuda, Kimikazu, 4,688,501, Cl. 112-241.000.
Mikuni, Yoshio; and Koshinaka, Osamu, 4,690,080, Cl. 112-162.000.

Marvanycs, Ede: *See*—
Heja, Gergely; Korbonits, Dezso; Palosi, Endre; Kiss, Pal; Gonczi, Csaba; Szvoboda nee Kanzel, Ida; Marvanyos, Ede; Kun, Judit; Szomor nee Wundele, Maria; Szabo, Gabor; Kallay, Tamas; and Ledniczky, Laszlo, 4,709,081, Cl. 560-100.000.

Marvel, John B., Sr.; and Modrak, James P., to Hercules Incorporated. Fiberized joint/crack sealant composition. 4,663,370, 5-5-87, Cl. 523-221.000.

Marvel Metal Products Company: *See*—
Fowler, David K.; Karadimas, Margaret; DeSimone, Ronald; and Termini, Frank J., 4,688,862, Cl. 312-325.000.

Marven, Robert, to Extrudaids Limited. Method and apparatus for producing separate unagglomerated pellets of an extrudable material. 4,663,099, 5-5-87, Cl. 264-142.000.

Marver, Douglas J.: *See*—
Thorson, Russell E.; and Marver, Douglas J., 4,680,450, Cl. 219-388.000.

Marvin, David H.: *See*—
Helmich, Melvin J.; Ryan, William P.; and Marvin, David H., 4,708,094, Cl. 123-27.0GE.

Marvin, Dennis F.; and Steele, Roger, to Motorola, Inc. High speed method of determining temperature compensation component values. 4,658,223, 4-14-87, Cl. 331-176.000.

Marvin Glass & Associates: *See*—
Baran, Patrick S.; Levin, Sandra A.; and Kuna, Wayne A., 4,673,181, Cl. 273-1.0GC.
Breslow, Jeffrey D.; Morrison, Howard J.; Hanson, Steven P.; and Rasmussen, Russell G., 4,710,873, Cl. 364-410.000.
Katzman, Allison W.; Terzian, Rouben T.; and Breslow, Jeffrey D., 4,674,169, Cl. 29-432.000.
Kulesza, Ralph J.; Disko, Harry; and Gibbons, Dennis R., 4,669,997, Cl. 446-183.000.
Kulesza, Ralph J.; Wozniak, Walter J.; and Disko, Harry, 4,708,690, Cl. 446-351.000.
Meyer, Burton C.; and Fauser, Fritz, 4,707,921, Cl. 30-296.00R.
Meyer, Steven M.; Morrison, R. Scott; and Morrison, Howard J., 4,643,421, Cl. 273-1.00E.
Morrison, Howard J., 4,662,855, Cl. 446-227.000.
Rasmussen, Russell G.; Stubenfoll, Leonard J.; and Disko, Harry, 4,710,146, Cl. 446-308.000.
Welch, Bennie R.; Rasmussen, Russell G.; and Disko, Harry, 4,696,654, Cl. 446-268.000.
Zaruba, John V.; Rosenwinkel, Donald A.; and Breslow, Jeffrey D., 4,662,633, Cl. 273-1.0GF.
Zaruba, John V.; Hanson, Steven P.; and Kuna, Wayne A., 4,708,348, Cl. 273-246.000.

Marwick, William F.: *See*—
Daglish, Alan R.; Foster, Mark H.; and Marwick, William F., 4,687,587, Cl. 252-11.000.

Marwin Production Machines Limited: *See*—
Bayes, Michael G.; and Coulthard, Walter, 4,654,954, Cl. 29-568.000.

Marwood, Warren; and Clarke, Allen P., to Commonwealth of Australia, The. Self repair large scale integrated circuit. 4,698,807, 10-6-87, Cl. 371-11.000.

Marx, Anna: *See*—
Tiburtius, Christoph; Marx, Anna; Buschhaus, Hans-Ulrich; and Findeisen, Kurt, 4,659,753, Cl. 523-209.000.

Marx, Christina S.: *See*—
Siegel, Richard C.; and Marx, Christina S., 4,650,751, Cl. 435-7.000.
Siegel, Richard C.; Marx, Christina S.; Hargitay, Bartholomew; and Wotherspoon, Neil, 4,713,350, Cl. 436-533.000.

Marx, Emil A.; Amundsen, Bruce L.; Anderson, Curtis L.; Erichsen, Glenn A.; and Wood, Timothy D., to Flow Systems, Inc. Compact receptacle with automatic feed for dissipating a high-velocity fluid jet. 4,651,476, 3-24-87, Cl. 51-410.000.

Marx, Gunter H., to Solco Basel AG. Apparatus for receiving and reinfusing blood. 4,642,088, 2-10-87, Cl. 604-4.000.

Marx, Hans-Jurgen: *See*—
Hosel, Fritz; Marx, Hans-Jurgen; and Temburg, Josef, 4,712,275, Cl. 19-80.00R.

Marx, Hans-Norbert: *See*—
Stanek, Richard; Marx, Hans-Norbert; Hettler, Wendelin; and Wagner, Claus, 4,716,054, Cl. 427-297.000.

Marx, Matthias; and Jaehme, Joachim, to BASF Aktiengesellschaft. s-Triazine-radical-containing polyether polyol mixtures, process for their preparation and their use. 4,656,201, 4-7-87, Cl. 521-166.000.

Marx, Matthias: *See*—
Horn, Peter; Baumann, Edwin; and Marx, Matthias, 4,714,718, Cl. 521-134.000.
Mueller, Gerhard; Marx, Matthias; Jarre, Wolfgang; Baumann, Edwin; and Buethe, Ingolf, 4,668,708, Cl. 521-159.000.
Straehle, Wolfgang; Marx, Matthias; and Schuett, Uwe, 4,698,410, Cl. 528-76.000.
Werner, Frank; Marx, Matthias; and Schmidt, Hans U., 4,698,371, Cl. 521-131.000.

Marx, Sherwood D. Multi-tool dowel hole drilling machine. 4,693,647, 9-15-87, Cl. 409-163.000.

Marx, Thomas O.: *See*—
Cox, David C.; and Marx, Thomas O., 4,648,657, Cl. 297-341.000.

Marxer, Herbert, to Lange International S.A. Ski boot fastener. 4,706,393, 11-17-87, Cl. 36-117.000.

Mary, Donald J., to United States of America. Army. Method for determining the angular dimensions of a scene recorded by a video system. 4,695,892, 9-22-87, Cl. 358-225.000.

Maryanoff, Bruce E., to McNeilab, Inc. Dialkanolamine derivatives. 4,649,204, 3-10-87, Cl. 548-541.000.

Maryanoff, Bruce E., to McNeilab, Inc. Tetrahydroazeto [2,1-a]isoquinolines and methods for treating depression. 4,713,386, 12-15-87, Cl. 514-294.000.

Maryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., to McNeilab, Inc. Process for producing guanidines such as linogliride. 4,656,270, 4-7-87, Cl. 544-148.000.

Maryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., to McNeilab, Inc. Process for producing amidine sulfonic acids. 4,656,291, 4-7-87, Cl. 548-351.000.

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Geigel, Maria A.; and Marynowski, Chester W., 4,663,473, Cl. 560-336.000.

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Michel, Helmut; Marzenell, Klaus; Kampe, Wolfgang; Bartsch, Wolfgang; and Schaumann, Wolfgang, 4,642,309, Cl. 514-269.000.

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Masai, Tetsuji: *See*—
Matsui, Isamu; Uchida, Hiroshi; Otoshima, Hiroo; Kubota, Yasuhiko; and Masai, Tetsuji, 4,681,271, Cl. 242-18.00R.

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Kaiser, Bruce J.; Walker, Edward S.; Tunnell, George W.; and Masaitis, William, 4,701,621, Cl. 250-435.000.

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Maeda, Akiya; Sakai, Mituya; Masaka, Yukinobu; Nomura, Masahiro; Yamada, Yasuo; and Tatsuhama, Tetsuro, 4,711,501, Cl. 299-21.000.

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Nakanishi, Keiichirou; Yamada, Minoru; Masaki, Akira; Imai, Kuninori; and Chiba, Katuaki, 4,644,385, Cl. 357-82.000.
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Masaki, Kazumi, to Hayashibara, Ken. Power supply for lighting incandescent lamp wth high-brightness. 4,644,229, 2-17-87, Cl. 315-310.000.

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Sato, Hiroki; Sanada, Yukitomo; Yokoya, Yuji; Masaki, Kazuo; Nakagawa, Kiyohara; and Murata, Syuuji, 4,681,143, Cl. 137-625.370.

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Kotera, Norio; Uegaki, Masatoshi; Yoshimura, Masakatsu; Masaki, Shinzaburo; Kaneoya, Tatsuo; Miyaoka, Takashi; Maegawa, Yuzo; and Fukasawa, Akira, 4,695,407, Cl. 760-378.000.

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Hisano, Atushi; Yamaguchi, Yoshinori; Masaki, Toshimichi; Saka, Kazuhiko; Nakatsuka, Nobuo; and Kato, Mitsutaka, 4,703,344, Cl. 358-60.000.
Saka, Kazuhiko; Hisano, Atsushi; Kato, Michitaka; Masaki, Toshimichi; and Nakatsuka, Nobuo, 4,703,512, Cl. 382-22.000.

Masaki, Yoshifumi, to Sharp Kabushiki Kaisha. Semiconductor integrated circuit with error correction function incorporated therein. 4,706,248, 11-10-87, Cl. 371-3.000.

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Masaki, Yuichi, to Canon Kabushiki Kaisha. Liquid crystal optical modulating element having particular capacitance between lines and method for driving the same. 4,653,859, 3-31-87, Cl. 350-333.000.

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Furushima, Teruhiko; Masaki, Yuichi; Fukaya, Masaki; and Sekimura, Nobuyuki, 4,650,984, Cl. 250-211.00R.
Iwabuchi, Toshiyuki; Sakai, Shunji; Uchiyama, Akira; Sakamoto, Masaaki; and Masaki, Yuichi, 4,672,219, Cl. 250-578.000.
Nishimura, Norihisa; Suga, Yuko; Miyachi, Takeshi; and Masaki, Yuichi, 4,634,227, Cl. 350-334.000.
Sekimura, Nobuyuki; Masaki, Yuichi; Terada, Katsunori; and Kakimoto, Seiji, 4,675,534, Cl. 250-578.000.
Suzuki, Hideyuki; Terada, Katsunori; Masaki, Yuichi; and Morimoto, Kenji, 4,690,880, Cl. 430-313.000.

Masamune, Satoru, to Massachusetts Institute of Technology. Chiral borane reagents. 4,644,075, 2-17-87, Cl. 556-403.000.

Masamura, Tatsuro, to Canadian Patents And Development Limited. Frequency offset diversity receiving system. 4,715,048, 12-22-87, Cl. 375-100.000.

Masanobu, Kazunori, to Kabushiki Kaisha Toshiba. Photomultiplier control circuit having a compensating light source. 4,661,693, 4-28-87, Cl. 250-207.000.

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Masao, Kato: *See*—
Arata, Yasuda; Masao, Kato; Masaaki, Yamabe; and Keiichi, Uchida, 4,699,989, Cl. 556-441.000.

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Inagaki, Masahisa; Jinbo, Ryutaro; Kuniya, Keiichi; Masaoka, Isao; and Maki, Hideo, 4,664,727, Cl. 148-407.000.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,678,521, Cl. 148-11.50F.
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Sakurai, Yoshihiko; and Masauji, Mamoru, 4,658,888, Cl. 165-22.000.

Masayoshi, Kondou: *See*—
Kiyoshi, Tokita; and Masayoshi, Kondou, 4,716,333, Cl. 313-402.000.

Mascellani, Giuseppe; Fravolini, Arnaldo; and Terni, Patrizia, to Mediolanum Farmaceutici S.R.L. Derivatives of pyrido-benzothiazine with high anti-microbial activity. 4,668,784, 5-26-87, Cl. 544-32.000.

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Mascetti, Paolo, to Camoga S.p.A. Device adapted to move the sharpening grinding wheels in a leather splitting machine close to and away from a cutting blade. 4,713,950, 12-22-87, Cl. 69-10.000.

Masch, Helmut. Intravascular catheter and method. 4,696,667, 9-29-87, Cl. 604-22.000.

Maschek, Martin; and Mastner, Georg, to BBC Brown, Boveri & Company, Limited. Shunt arrangement with power overload protection by a voltage responsive bidirectional switch. 4,656,554, 4-7-87, Cl. 361-56.000.

Maschhoff, Robert H.: *See*—
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Maschinen Abrik Rieter AG: *See*—
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Knott, Valentin; Huber, Hans; Langheinrich, Wolfgang; and Maier, Stephan, 4,645,040, Cl. 188-79.5GT.

Maschinenbau Oppenweiler Binder GmbH & Co.: *See*—
Gall, Ewald; and Weller, Hans, 4,699,035, Cl. 83-678.000.
Heina, Karl-Fritz; Hornung, Adolf; Worner, Kurt; and Wolf, Klaus, 4,643,412, Cl. 271-94.000.
Worner, Kurt, 4,669,347, Cl. 83-422.000.

Maschinenfabrik Alfred Schmermund GmbH & Co.: *See*—
Oberdorf, Manfred, 4,648,235, Cl. 53-54.000.
Oberdorf, Manfred, 4,685,554, Cl. 198-468.600.
Oberdorf, Manfred, 4,698,952, Cl. 53-456.000.
Siegfried, Knecht, 4,648,299, Cl. 83-150.000.
Zeitel, Joachim; and Hedtstuck, Horst, 4,655,030, Cl. 53-456.000.

Maschinenfabrik Andritz Actiengesellschaft: *See*—
Sbaschnigg, Johann, 4,681,659, Cl. 162-360.100.

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Maschinenfabrik Ernst Thielenhaus GmbH: *See*—
Schwar, Rudolf; and Thiemann, Detlef, 4,665,659, Cl. 51-129.000.
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Maschinenfabrik Fr. Niepmann GmbH & Co.: *See*—
Brinker, Alfred; Stewart, Iain G.; and Dreyer, Uwe, 4,648,232, Cl. 53-54.000.
Brinker, Alfred; and Dreyer, Uwe, 4,688,736, Cl. 242-56.00R.
Maschinenfabrik Gehring Gesellschaft mit beschrankter Haftung & Co. Kommanditgesellschaft: *See*—
Bender, Albert, 4,683,680, Cl. 51-34.00J.
Richter, Gunter; and Froschle, Reinhard, 4,679,357, Cl. 51-281.00P.
Maschinenfabrik Goebel GmbH: *See*—
Held, Franz, 4,646,603, Cl. 83-425.400.
Thomas, Hermann; Herd, Josef; and Jakob, Hans, 4,671,154, Cl. 83-698.000.
Zimmer, Heinrich; and May, Fritz, 4,671,175, Cl. 101-148.000.
Maschinenfabrik Heid Aktiengesellschaft: *See*—
Holy, Franz; and Steiner, Karl, 4,635,329, Cl. 29-27.00C.
Messner, Erich; and Harold, Franz, 4,658,754, Cl. 118-303.000.
Steiner, Karl, 4,683,626, Cl. 29-40.000.
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Maschinenfabrik Hennecke GmbH: *See*—
Proksa, Ferdinand; Sulzbach, Hans-Michael; Rohrig, Lothar; and Fuhrbach, Hans-Wilhelm, 4,693,448, Cl. 249-162.000.
Maschinenfabrik Hermann Paus GmbH: *See*—
Hillmann, Willi; Paus, Hermann; and Drews, Eberhard, 4,700,023, Cl. 191-12.20A.
Maschinenfabrik HILMA GmbH: *See*—
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Maschinenfabrik J. Banning AG: *See*—
Schroder, Horst, 4,688,407, Cl. 72-111.000.
Maschinenfabrik Muller-Weingarten AG: *See*—
Harsch, Erich; and Reichenbach, Reiner, 4,648,736, Cl. 403-297.000.
Harsch, Erich; and Reichenbach, Reiner, 4,697,449, Cl. 72-405.000.
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Spriestersbach, Jochen; and Woithe, Herbert, 4,660,614, Cl. 164-113.000.
Maschinenfabrik Rieter AG: *See*—
Bachinger, Peter; and Giancarlo, Mondini, 4,673,137, Cl. 242-55.100.
Binder, Rolf; Hanselmann, Daniel; and Staheli, Christoph, 4,660,257, Cl. 19-80.00R.
Binder, Rolf; and Schlepfer, Walter, 4,707,888, Cl. 19-80.00R.
Briner, Emil; and Keller, Urs, 4,646,513, Cl. 57-263.000.
Eichenberger, Hansulrich; Lacher, Ludwig; and Schmid, Titus, 4,677,710, Cl. 19-218.000.
Erni, Markus; Salvisberg, Kurt; and Zund, Marcel, 4,656,465, Cl. 340-679.000.
Fretz, Walter; and Hefti, Walter, 4,695,000, Cl. 242-18.0DD.
Hera, Georg, 4,642,851, Cl. 19-159.00A.
Lattion, Andre ; Carl, Alfred; and Oehler, Reinhard, 4,684,307, Cl. 414-31.000.
Mondini, Giancarlo; Hefti, Walter; and Kaufmann, Siegfried, 4,641,397, Cl. 19-258.000.
Oswald, Peter; and Pietrini, Victor, 4,646,387, Cl. 19-0.230.
Staheli, Paul; Stahli, Urs; and Knabenhaus, Fritz, 4,648,754, Cl. 406-156.000.
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Maschinenfabrik Sulzer-Ruti AG: *See*—
Riboli, Gianni, 4,633,917, Cl. 139-452.000.
Maschinenfabrik Wifag: *See*—
Gertsch, Peter, 4,646,636, Cl. 101-228.000.
Masciale, John M.: *See*—
Kubacki, Edward F.; and Masciale, John M., 4,635,545, Cl. 101-4.000.
Masciarelli, Camillo. Anti-friction element. 4,660,994, 4-28-87, Cl. 384-49.000.
Masciarelli, Camillo. Conveyor system with rollers and plungers. 4,706,793, 11-17-87, Cl. 193-35.00A.
Masclaux, Pierre, to Compagnie Generale des Etablissements Michelin. Radial carcass pneumatic tire having two bead rings per bead. 4,700,765, 10-20-87, Cl. 152-545.000.
Masco Corporation: *See*—
Fowler, James M., 4,705,936, Cl. 219-295.000.
Johnson, Dwight N., 4,646,779, Cl. 137-426.000.
Johnson, Dwight N., 4,662,602, Cl. 251-44.000.
Knapp, Alfons, 4,672,999, Cl. 137-625.400.
Knapp, Alfons; and Grassberger, Roland, 4,676,270, Cl. 137-625.400.
Knapp, Alfons; Roland, Robert D.; and Hutto, Joe D., 4,696,322, Cl. 137-218.000.
MacDonald, Robert D., 4,640,457, Cl. 236-12.110.
MacDonald, Robert D., 4,699,172, Cl. 137-551.000.
Taylor, Roger W.; and Templin, Arthur R., 4,666,189, Cl. 285-47.000.
Masco Corporation of Indiana: *See*—
Marty, Garry R., 4,700,928, Cl. 251-310.000.
Purcell, Glenn T., 4,649,958, Cl. 137-801.000.
Mascotte, Lawrence L., to Rayma Development Corp. Locking system for security door and window. 4,663,950, 5-12-87, Cl. 70-135.000.
Mase, Akira: *See*—
Yamazaki, Shunpei; Konuma, Toshimitsu; Hamatani, Toshiji; Mase, Akira; Koyanagi, Kaoru; Imato, Shinji; Yamaguchi, Toshiharu; Sakama, Mitsunori; and Inujima, Takashi, 4,691,995, Cl. 350-331.00R.
Mase, Katsuhisa: *See*—
Yamamoto, Noboru; Mase, Katsuhisa; Kawai, Motoshi; Miyase, Yoshiyuki; and Matsui, Takeshi, 4,658,788, Cl. 123-418.000.
Mase, Katuhisa: *See*—
Kawai, Motoshi; Yamamoto, Noboru; Mase, Katuhisa; Matsui, Takeshi; Mikino, Tomoatsu; Miyase, Yoshiyuki; Okuda, Ryoichi; and Suzumura, Koichi, 4,649,888, Cl. 123-609.000.
Mase, Masahiro; Nagaoka, Takashi; Tsutsumi, Yoshitsugu; Taniyama, Minoru; and Terajima, Makoto, to Hitachi, Ltd. Vacuum pump. 4,668,160, 5-26-87, Cl. 415-90.000.
Mase, Syunzo; and Soejima, Shigeo, to NGK Insulators, Ltd. Electrochemical device. 4,647,364, 3-3-87, Cl. 204-427.000.
Mase, Syunzo; and Soejima, Shigeo, to NGK Insulators, Ltd. Oxygen sensor element. 4,655,901, 4-7-87, Cl. 204-426.000.
Mase, Syunzo; and Soejima, Shigeo, to NGK Insulators, Ltd. Electrochemical element. 4,657,659, 4-14-87, Cl. 204-410.000.
Mase, Syunzo; and Soejima, Shigeo, to NGK Insulators, Ltd. Electrochemical device. 4,670,128, 6-2-87, Cl. 204-427.000.
Mase, Toshiaki: *See*—
Shibasaki, Masakatsu; Mase, Toshiaki; Sodeoka, Mikiko; and Ogawa, Yuji, 4,681,951, Cl. 549-214.000.
Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horu, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699921, Cl. 514-530.000.
Mase, Yasukazu; Abe, Masahiro; and Aoyama, Masaharu, to Kabushiki Kaisha Toshiba. Method for planarizing the surface of an interlayer insulating film in a semiconductor device. 4,634,496, 1-6-87, Cl. 156-643.000.
Masek, Jaroslav: *See*—
Heiniger, Peter; Masek, Jaroslav; and Senn, Herbert, 4,642,025, Cl. 415-139.000.
Masek, Jiri: *See*—
Smith, Rodney M.; and Masek, Jiri, 4,641,569, Cl. 92-43.000.
Masek, Petr: *See*—
Ackermann, Horst W.; Masek, Petr; and Servaux, Jean, 4,679,701, Cl. 220-404.000.
Maser, Kenneth R. Leakage test for liquid containment. 4,697,456, 10-6-87, Cl. 73-592.000.
Maser, Thomas L., to W. H. Brady Co. Membrane switch combined with electroluminescent lamp panel. 4,683,360, 7-28-87, Cl. 200-314.000.
Masera, Ercole: *See*—
Compagnucci, Rossano; and Masera, Ercole, 4,679,746, Cl. 242-77.200.
Masheff, Michael S.; and Sanders, David E., to E-Systems, Inc. Quadrature signal generator having digitally-controlled phase and amplitude correction. 4,696,017, 9-22-87, Cl. 375-60.000.
Mashiba, Tamaki: *See*—
Washizuka, Isamu; Morino, Masuaki; and Mashiba, Tamaki, 4,655,551, Cl. 350-334.000.
Mashiko, Harumitsu: *See*—
Ohshima, Kiyoshi; Suzuki, Shigeru; Mashiko, Harumitsu; and Ohdake, Eisyu, 4,707,126, Cl. 355-14.0SH.
Mashiko, Koichiro; Yamada, Michihiro; Arimoto, Kazutami; Miyamoto, Hiroshi; Kobayashi, Toshifumi; and Morooka, Yoshikazu, to Mitsubishi Denki Kabushiki Kaisha. Dynamic random access memory with hidden refresh control. 4,641,281, 2-3-87, Cl. 365-189.000.
Mashiko, Koichiro: *See*—
Furutani, Kiyohiro; Mashiko, Koichiro; and Arimoto, Kazutami, 4,710,789, Cl. 357-23.600.
Miyamoto, Hiroshi; Mashiko, Koichiro; Kobayashi, Toshifumi; and Yamada, Michihiro, 4,689,770, Cl. 365-149.000.
Mashiko, Tomoyuki: *See*—
Watanabe, Kinichiro; Horiai, Kunio; Mashiko, Tomoyuki; Kato, Hitoshi; Yamaguchi, Hiromasa; and Nishiyama, Toshihiko, 4,679,992, Cl. 417-364.000.
Mashiko, Yoji: *See*—
Nishioka, Tadashi; Koyama, Hiroshi; and Mashiko, Yoji, 4,636,400, Cl. 427-39.000.
Nishioka, Tadashi; Koyama, Hiroshi; and Mashiko, Yoji, 4,691,078, Cl. 174-68.500.
Mashimo, Satoshi; Kakiuchi, Hajime; and Nakajima, Masayoshi, to Mitsuboshi Belting Ltd. Power transmission belt. 4,642,082, 2-10-87, Cl. 474-260.000.
Mashimo, Satoshi; Fujita, Kunihiro; Tanaka, Masayuki; Yamaguchi, Yoshio; and Takeda, Kazuhiro, to Mitsuboshi Belting Ltd. Power transmission tensile cord and belt manufacture. 4,715,176, 12-29-87, Cl. 57-251.000.
Mashimo, Tohru: *See*—
Tanaka, Kazumoto; Mashimo, Tohru; Sato, Osamu; and Kobayashi, Toyohiko, 4,639,868, Cl. 364-420.000.
Mashimo, Toru, to Mazda Motor Corporation. Rock drill with tunnel profile control system. 4,712,624, 12-15-87, Cl. 173-43.000.
Mashine, Hiroyoshi: *See*—
Katsuda, Yoshio; Yoshinaga, Sadao; and Mashine, Hiroyoshi, 4,693,868, Cl. 422-124.000.
Mashino, Keiichi, to Hitachi, Ltd. Control apparatus for charging generator. 4,642,548, 2-10-87, Cl. 322-25.000.
Mashino, Keiichi, to Hitachi, Ltd. Voltage regulator for generator used in automobile. 4,680,530, 7-14-87, Cl. 322-33.000.
Masho, Yukio; Kakimi, Shigeru; Ueki, Toru; Miyauchi, Satoshi; Ohigashi, Tugio; and Kurohata, Hitoshi, to Matsushita Electric Industrial Co. Ltd. Coin selection apparatus. 4,705,154, 11-10-87, Cl. 194-319.000.

Mashuda, David. Foldable drain hose support. 4,715,570, 12-29-87, Cl. 248-49.000.
Masiarz, Frank R.: *See*—
Kuo, George; Masiarz, Frank R.; Truett, Martha; Valenzuela, Pablo; Rasmussen, Mirella E.; and Favaloro, Jennifer. 4,716,117, Cl. 435-240.270.
Masihy, Jorge; and Navarrete, Jose. Water trap system for recovering precious metals. 4,676,900, 6-30-87, Cl. 210-307.000.
Masilamani, Divakaran; and Manahan, Edward H., to Allied Corporation. Catalytic method of preparing keto-cyano alkane compounds. 4,647,686, 3-3-87, Cl. 558-315.000.
Masilamani, Divakaran; Hammond, George S.; and Murthy, Andiappan K. S., to Allied Corporation. Process for the production of methyl ethers from branched monoolefins. 4,709,101, 11-24-87, Cl. 568-697.000.
Masilamani, Divakaran: *See*—
Gefri, Fred J.; Masilamani, Divakaran; and Murthy, Andiappan K. S., 4,704,480, Cl. 568-396.000.
Masina, Vittorino. Multiple barrel rifle and trigger mechanism. 4,712,323, 12-15-87, Cl. 42-42.010.
Masini, Jean-Jacques, to ATOCHEM. Continuous production of higher chloroalkanes. 4,689,130, 8-25-87, Cl. 204-157.040.
Maskasky, Joe E., to Eastman Kodak Company. Emulsions and photographic elements containing ruffled silver halide grains. 4,643,966, 2-17-87, Cl. 430-567.000.
Maskasky, Joe E., to Eastman Kodak Company. Emulsions and photographic elements containing silver halide grain: having hexoctamedral crystal faces. 4,680,254, 7-14-87, Cl. 430-567.000.
Maskasky, Joe E., to Eastman Kodak Company. Emulsions and photographic elements containing silver halide grains having tetrahexahedral crystal faces. 4,680,255, 7-14-87, Cl. 430-567.000.
Maskasky, Joe E.; and Jones, Ralph W., to Eastman Kodak Company. Emulsions and photographic elements containing silver halide grains having trisoctahedra crystal faces. 4,680,256, 7-14-87, Cl. 430-567.000.
Maskasky, Joe E., to Eastman Kodak Company. Tabular silver halide emulsions with ledges. 4,684,607, 8-4-87, Cl. 430-567.000.
Maskasky, Joe E., to Eastman Kodak Company. Low methionine gelatino-peptizer tabular grain silver bromide and bromoiodide emulsions and processes for their preparation. 4,713,320, 12-15-87, Cl. 430-567.000.
Maskasky, Joe E., to Eastman Kodak Company. Chloride containing tabular grain emulsions and processes for their preparation employing a low methionine gelatino-peptizer. 4,713,323, 12-15-87, Cl. 430-569.000.
Maslak, Samuel H. and Larsen, Hugh G., to Acuson. Dynamically focused linear phased array acoustic imaging system. 4,699,009, 10-13-87, Cl. 73-626.000.
Maslanka, Harald, to Diener Verwaltungs-und Beteiligungsgesellschaft m.b.H., a part interest. Biopsy forceps. 4,646,751, 3-3-87, Cl. 128-751.000.
Maslanka, William W., to Hercules Incorporated. Paper products containing wet strength resins. 4,708,772, 11-24-87, Cl. 162-164.300.
Masler, Gerhard, to ITW Ateco GmbH. Opening stopper for automotive vehicle bodies. 4,646,932, 3-3-87, Cl. 220-307.000.
Masler, William F., III, and Amjad, Zahid, to B.F. Goodrich Company, The. Process for preparing novel copolymer. 4,639,490, 1-27-87, Cl. 524-765.000.
Masler, William F., III. *See*—
Amjad, Zahid; and Masler, William F., III, 4,707,271, Cl. 210-701.000.
Masmere, Pierre; and Ducourroy, Andre, to Electricite de France Service National. Automatic rain gauge. 4,665,743, 5-19-87, Cl. 73-170.00R.
Masom, Ronald A.: *See*—
Pointer, John; and Masom, Ronald A., 4,650,318, Cl. 356-43.000.
Mason, Arthur C., to Lamb Technicon Corp. Workpiece transfer. 4,669,607, 6-2-87, Cl. 198-774.000.
Mason, Arthur G.: *See*—
Crowther, Gerald O.; and Mason, Arthur G., 4,636,854, Cl. 358-123.000.
Drury, Gordon M.; Mason, Arthur G.; Lodge, Nicolas K.; and Flannaghan, Barry A., 4,636,851, Cl. 358-119.000.
Mason, Bradley R.; and Mason, Jeffrey T., to Don Joy Orthopedic, Inc. Athletic knee protector with bowed leaf spring structure. 4,643,176, 2-17-87, Cl. 128-80.00C.
Mason, Bradley R.; Mason, Jeffrey T.; and Cawley, Patrick W., to Don Joy Orthopedic, Inc. Four-point anterior cruciate ligament brace. 4,697,583, 10-6-87, Cl. 128-80.00C.
Mason, Brian R.: *See*—
Bailey, John W.; Hayter, Paul A.; Mason, Brian R.; and Turner, Graham N., 4,714,875, Cl. 324-73.0PC.
Mason, Charles D.: *See*—
Dunkle, Steven R.; and Mason, Charles D., 4,659,767, Cl. 524-504.000.
Mason Clinic, The: *See*—
Eusek, John F.; and Bush, William H., 4,665,543, Cl. 378-181.000.
Mason, Daniel P. Truck crane conversion to crawler crane. 4,640,421, 2-3-87, Cl. 212-175.000.
Mason, Douglas: *See*—
Harvey, Roy L.; and Mason, Douglas, 4,634,846, Cl. 235-382.000.
Mason, Douglas L.: *See*—
Galvin, Aaron A.; Mason, Douglas L.; Leff, Kenneth J.; Schide, John N.; and Giffone, Ralph A., 4,687,924, Cl. 250-216.000.
Mason, Graham: *See*—
Hunter, Ian; Mason, Graham; and Scorer, Michael, 4,673,298, Cl. 374-122.000.
Mason, Harry L., to Pitney Bowes Inc. Scanning system. 4,675,744, 6-23-87, Cl. 358-282.000.
Mason, Hilbur A., to Poly Oil Pump, Inc. Oil well pumping mechanism. 4,653,989, 3-31-87, Cl. 417-392.000.
Mason, Iain M.: *See*—
Buchanan, David J.; Davis, Richard; Jackson, Peter J.; and Mason, Iain M., 4,653,031, Cl. 367-59.000.
Mason, James B.: *See*—
McCreadie, Thomas; and Mason, James B., 4,655,302, Cl. 175-218.000.
Mason, James H. Macpherson strut alignment gauge and straightening apparatus. 4,640,015, 2-3-87, Cl. 33-181.0AT.
Mason, James L., to Ford Motor Company. Indexable caster adjusting plate for motor vehicles. 4,650,208, 3-17-87, Cl. 280-661.000.
Mason, James M.: *See*—
Cain, Jerry T.; Mason, James M.; and Rainey, Tommy D., 4,701,087, Cl. 410-94.000.
Mason, Jeffrey T.: *See*—
Mason, Bradley R.; and Mason, Jeffrey T., 4,643,176, Cl. 128-80.00C.
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Mason, Jeremy R.: *See*—
Bennetto, Hugh P.; Delaney, Gerard M.; Mason, Jeremy R.; Stirling, John L.; Roller, Sibel; Thurston, Christopher F.; and White, Donald R., Jr., 4,652,501, Cl. 429-2.000.
Mason, John Y.; and Hicks, Bruce W., to Rio Linda Chemical Company, Inc. Dry compositions for the production of chlorine dioxide. 4,689,169, 8-25-87, Cl. 252-186.240.
Mason, Joseph: *See*—
Burell, John A.; and Mason, Joseph, 4,644,715, Cl. 52-170.000.
Mason, Kent L., to NCR Corporation. Asynchronous FIFO status circuit. 4,694,426, 9-15-87, Cl. 365-78.000.
Mason, Margaret, executor: *See*—
Waller, Martin; Farrell, Geoffrey; Mills, Kenneth W., deceased; Mason, Margaret, executor; and Shindler, Geoffrey A., executor, 4,683,028, Cl. 162-275.000.
Mason, Michael S. Dental drill system. 4,676,750, 6-30-87, Cl. 433-101.000.
Mason, Norbert S.: *See*—
Sparks, Robert E.; and Mason, Norbert S., 4,675,140, Cl. 264-4.300.
Mason, Paul B., to Polaroid Corporation. Transparency film assemblage and roller assembly for use therewith. 4,716,092, 12-29-87, Cl. 430-209.000.
Mason, Richard W.: *See*—
Brass, Robert L.; Glaberson, John; Mason, Richard W.; L'Heureux, Arthur J., III; Santulli, Scott; Roth, G. Thomas; Frega, John; and Imiolek, Henry S., 4,692,603, Cl. 235-454.000.
Mason, Robert K.: *See*—
Simonton, R. D.; Cattano, John D.; and Mason, Robert K., 4,678,729, Cl. 429-129.000.
Simonton, Robert D.; Cattano, John D.; and Mason, Robert K., 4,679,316, Cl. 29-731.000.
Mason, Robert L. Locking removable support surface and adapter. 4,706,574, 11-17-87, Cl. 108-97.000.
Mason, Ronald F.; Scholes, Gary; and van Reijendam, Jan W., to Shell Oil Company. Azetidine derivative. 4,701,534, 10-20-87, Cl. 548-950.000.
Mason, Ronald F.: *See*—
de Nie-Sarink, Margaretha J.; and Mason, Ronald F., 4,665,197, Cl. 548-953.000.
Wood, Derek A.; and Mason, Ronald F., 4,634,554, Cl. 548-950.000.
Mason, Ronald G.; Pitzer, Emory W.; McDaniel, Max P.; Rogers, David L.; and Waterman, James W., to Phillips Petroleum Company. Method of pelletizing agglomerated catalyst materials. 4,681,266, 7-21-87, Cl. 241-18.000.
Mason, Rufus C. Heater. 4,653,465, 3-31-87, Cl. 126-99.00R.
Mason, Samuel T. Excavator bucket. 4,668,156, 5-26-87, Cl. 414-704.000.
Mason, Stanley L., Jr.; Wolfe, Allan P.; and Turner, Robert B., to Crisis Communication, Inc. Kit for making sets of transparent fingerprints using differential adhesion. 4,706,900, 11-17-87, Cl. 118-31.500.
Mason, Thomas O.: *See*—
Grote, Dace; Trivedi, Bhupendra C.; and Mason, Thomas O., 4,661,296, Cl. 260-413.000.
Mason, William H., III. Adjustable biaxial stretcher. 4,685,230, 8-11-87, Cl. 38-102.500.
Mason, William H., III, to Uncommon Conglomerates, Inc. Adhesive technology. 4,702,785, 10-27-87, Cl. 156-64.000.
Masoneilan International, Inc.: *See*—
Paetzel, Herbert K., 4,693,450, Cl. 251-121.000.
Masonite Corporation: *See*—
Janiga, Eugene R., 4,701,383, Cl. 428-527.000.
Masot, Oscar V. Circuit breaker panels with alarm system. 4,698,621, 10-6-87, Cl. 340-639.000.
Masovich, Felix Z.; Khorin, Vladimir N.; Golubeva, Svetlana M.; and Shishlov, Vyacheslav I., to Gosudarstvenny Proektno-Konstruktorsky I Experimentalny Institut Agolnogo Mashinostroenia. Chainless feed system of mining cutterloader. 4,633,723, 1-6-87, Cl. 74-141.500.
Masovich, Felix Z.; and Starichnev, Vladimir V., to Gosudarstvenny Proektno-Konstruktorsky I Experimentalny Institut Ugolnogo Mashinostroenia "Giprouglemash". Method and hydraulic system for controlling supply of fluid to combine for extracting minerals. 4,648,659, 3-10-87, Cl. 299-1.000.

Masquelier, Jack, to Societe Civile d'Investigations Pharmacologiques d'Aquitaine; and Horphag Overseas Ltd. Plant extract with a proanthocyanidins content as therapeutic agent having radical scavenger effect and use thereof. 4,698,360, 10-6-87, Cl. 514-456.000.
Mass, Nissim; and Zur, Hanan. Modular chicken houses and egg collecting means. 4,653,430, 3-31-87, Cl. 119-48.000.
Massa, Andre; and Dupasquier, Guy, to Atochem. Bag packaging machine and method. 4,711,070, 12-8-87, Cl. 53-573.000.
Massa, Donald P.: *See*—
Massa, Frank; and Massa, Donald P., 4,641,290, Cl. 367-106.000.*
Massa, Frank, 4,660,186, Cl. 367-142.000.
Massa, Frank; and Massa, Donald P., 4,700,333, Cl. 367-157.000.
Massa, Frank; and Massa, Donald P., to Dellorfano, Fred M., Jr.; and Massa, Donald P., Trustees of the Stoneleigh Trust. Low frequency portable lightweight sonar systems and their method of deployment for greatly increasing the efficiency of submarine surveillance over large areas. 4,641,290, 2-3-87, Cl. 367-106.000.
Massa, Frank, to Dellorfano, Fred M., Jr.; and Massa, Donald P., Trustees of The Stoneleigh Trust u/d/t. Electromagnetic transducers for underwater low-frequency high-power use. 4,660,186, 4-21-87, Cl. 367-142.000.
Massa, Frank; and Massa, Donald P., to Stoneleigh Trust, The, Fred M. Dellorfano, Jr. and Donald P. Massa, trustees. Hydrophone design to overcome reduction in leakage resistance between electrode surface of transducer element assembly and the water in which the hydrophone is immersed. 4,700,333, 10-13-87, Cl. 367-157.000.
Massa, Sergio: *See*—
Giannetti, Anna; Massa, Sergio; and Pe, Cesare, 4,638,580, Cl. 40-503.000.
Massachusetts General Hospital: *See*—
Martin, Joseph B.; Millard, William; and Sagar, Stephen, 4,657,932, Cl. 514-665.000.
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Massachusetts Institute of Technology: *See*—
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Bernard, John A.; Henry, Allan F.; Lanning, David D.; and Kwok, Kwan S., 4,710,341, Cl. 376-216.000.
Bernard, John A., Jr., 4,637,911, Cl. 376-217.000.
Choi, Hong-Kyun; and Tsaur, Bor-Yeu, 4,700,461, Cl. 437-41.000.
Chou, Stephen Y., 4,638,669, Cl. 73-517.00R.
Davison, Alan; Brenner, David; Lister-James, John; and Jones, Alun G., 4,673,562, Cl. 424-1.100.
Dolat, Victor S.; Ehrlich, Daniel J.; and Tsao, Jeffrey Y., 4,672,254, Cl. 310-313.00R.
Edwards, Brian E.; and Biron, David G., 4,690,551, Cl. 356-5.000.
Ehrlich, Daniel J.; Arnone, Claudio; and Rothschild, Mordecai, 4,668,528, Cl. 427-53.100.
Erwin, Lewis; and Armond, John, 4,674,885, Cl. 366-76.000.
Feldman, Joel A.; and Hofstetter, Edward M., 4,710,959, Cl. 381-36.000.
Gillies, Stephen D.; and Tonegawa, Susumu, 4,663,281, Cl. 435-68.000.
Glasser, Lance A., 4,665,503, Cl. 365-114.000.
Growdon, John H.; and Wurtman, Richard J., 4,636,494, Cl. 514-78.000.
Harman, Theodore C., 4,642,142, Cl. 148-171.000.
Hart, George W.; and Kern, Edward C., Jr., 4,672,555, Cl. 364-483.000.
Hatton, T. Alan; and Plawsky, Joel L., 4,662,749, Cl. 356-336.000.
Hegedus, Louis; Vayenas, Costas G.; and Michaels, James N., 4,643,806, Cl. 204-59.00R.
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Jasin, Marta; and Schimmel, Paul R., 4,713,337, Cl. 435-172.300.
Jones, Alun G.; Davison, Alan; and Abrams, Michael J., 4,707,544, Cl. 534-14.000.
Kelland, David R.; and Takayasu, Makoto, 4,663,029, Cl. 209-214.000.
Kelland, David R., 4,678,478, Cl. 44-1.0SR.
Kingston, Robert H.; and Leonberger, Frederick J., 4,696,533, Cl. 350-96.140.
Kittrell, Carter; Hayes, Gary B.; and Feld, Michael S., 4,648,892, Cl. 65-4.210.
Klibanov, Alexander M., 4,659,671, Cl. 435-280.000.
Kohn, Joachim; and Langer, Robert S., 4,638,045, Cl. 530-323.000.
Landsberger, Samuel E.; and Sheridan, Thomas B., 4,666,362, Cl. 414-735.000.
Langer, Robert S.; and Kost, Joseph, 4,657,543, Cl. 604-891.000.
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Lees, Robert S., 4,660,563, Cl. 128-654.000.
Lippard, Stephen J.; and Bianconi, Patricia A., 4,683,315, Cl. 556-12.000.
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Masamune, Satoru, 4,644,075, Cl. 556-403.000.
Milgram, Jerome H., 4,676,899, Cl. 210-218.000.
Peterson, Carl R., 4,655,082, Cl. 73-594.000.
Raffel, Jack I.; Yasaitis, John A.; and Chapman, Glenn H., 4,636,404, Cl. 427-53.100.
Reif, L. Rafael; and Fonstad, Clifton G., Jr., 4,659,401, Cl. 148-175.000.
Reif, L. Rafael; Tedrow, Prabha K.; and Ilderem, Vida, 4,668,530, Cl. 427-55.000.
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Roninson, Igor, 4,675,283, Cl. 435-6.000.
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Salisbury, John K., Jr.; and Brock, David L., 4,635,479, Cl. 73-862.040.
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Schweickert, Robert K., 4,638,248, Cl. 324-76.00R.
Seyferth, Dietmar; and Yu, Yuan-Fu, 4,639,501, Cl. 528-15.000.
Seyferth, Dietmar; Wood, Timothy G.; and Yu, Yuan-Fu, 4,645,807, Cl. 525-474.000.
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Siezen, Roelant J.; Coppin, Christophe M.; and Benedek, George B., 4,665,089, Cl. 514-422.000.
Sinskey, Anthony J.; Walker, Graham C.; Higashio, Kanji; Rao, Eswara A.; Shanabruch, William G.; and Yoshihama, Makoto, 4,649,119, Cl. 435-317.000.
Suh, Nam P.; Saka, Nannaji; and Liou, Ming J., 4,687,274, Cl. 439-426.000.
Thompson, Amy, 4,650,489, Cl. 623-16.000.
Tsaur, Bor-Yeu; Fan, John C. C.; and Geis, Michael W., 4,670,088, Cl. 156-617.00R.
Veldkamp, Wilfrid B.; Leger, James R.; and Swanson, Gary J., 4,649,351, Cl. 330-4.300.
Weaver, James C., 4,643,968, Cl. 435-32.000.
Whitesides, George M.; Crans, Debbie C.; and Kazlaukas, Romas J., 4,701,285, Cl. 260-545.00P.
Willett, Robert L.; Cothren, Robert M., Jr.; Kittrell, Carter; and Feld, Michael S., 4,669,467, Cl. 128-303.100.
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Withers, Richard S.; Ralston, Richard W.; and Stern, Ernest R., 4,652,926, Cl. 358-213.000.
Wnek, Gary E.; and Whitney, Duncan H., 4,672,093, Cl. 525-356.000.
Wurtman, Richard J.; Wurtman, Judith J.; and O'Rourke, Dermot, 4,649,161, Cl. 514-654.000.
Wurtman, Richard J.; and Maher, Timothy J., 4,673,689, Cl. 514-561.000.
Wurtman, Richard J., 4,687,763, Cl. 514-53.000.
Yang, Victor C.; and Langer, Robert S., 4,666,855, Cl. 436-89.000.
Massaloux, Dominique: *See*—
Anizan, Paul; Collobert, Daniel; and Massaloux, Dominique, 4,692,892, Cl. 364-807.000.
Massari, Donald J., Jr.; and Hail, Robert J., to Senco Products, Inc. Modular tool having interchangeable handle and magazine units. 4,688,710, 8-25-87, Cl. 227-109.000.
Massarsch, Karl, to S.A. Compagnie Internationale des Pieux Armes Frankignoul. Method of increasing the compressibility of liquid-saturated material. 4,685,835, 8-11-87, Cl. 405-263.000.
Massarsch, Karl R. Arrangement in vibration isolation or vibration damping. 4,647,258, 3-3-87, Cl. 405-258.000.
Massarsch, Karl R., to S.A. Compagnie Internationale. Method and apparatus for compacting a soil stratum using vibrations. 4,699,546, 10-13-87, Cl. 405-271.000.
Massbaum, Ross, to Sea Hands Enterprises, Inc. Inflatable flotation device. 4,676,760, 6-30-87, Cl. 441-56.000.
Masse, Gary M. J., to C-I-L Inc. Purification and reconcentration of waste sulphuric acid. 4,671,951, 6-9-87, Cl. 423-531.000.
Masse, Gary M. J., to C-I-L Inc. Vaporizing liquid sulfur dioxide with microwave radiation. 4,671,952, 6-9-87, Cl. 423-539.000.
Masse, Gary M. J.; and Edmonds, Anthony C. F., to C-I-L Inc. Generation of sulphur trioxide from oleum using microwave energy. 4,673,560, 6-16-87, Cl. 423-532.000.
Masse, Jean, to Commissariat a l'Energie Atomique; and Service National Electricite de France. Heat exchanger equipped with emergency cooling means and fast neutron nuclear reactor incorporating such an exchanger. 4,698,201, 10-6-87, Cl. 376-298.000.
Masse, Joel: *See*—
Sabate, Modeste; and Masse, Joel, 4,693,757, Cl. 134-27.000.
Masse, Norman G.: *See*—
Pryor, Michael J.; Leedecke, Charles J.; and Masse, Norman G., 4,712,161, Cl. 361-411.000.
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Masse, Roger. Method and apparatus for drilling hard material. 4,682,819, 7-28-87, Cl. 299-10.000.
Masse, Serge, to Ross Pulp and Paper Inc. Threading belt for pulp floater dryers. 4,693,405, 9-15-87, Cl. 226-91.000.
Massengale, James. Bowling shoe protector. 4,704,810, 11-10-87, Cl. 36-130.000.
Massengill, Arnold R. Combination air fairing and auxiliary air braking device. 4,693,506, 9-15-87, Cl. 296-1.00S.
Masserang, Gregory J., to Michigan Special Products, Inc. Desiccant assembly for refrigeration circuit and method. 4,675,971, 6-30-87, Cl. 29-422.000.
Masseth, David A., to Dayco Products, Inc. Device and method for determining hose size and hose fitting style and size. 4,677,751, 7-7-87, Cl. 33-143.00M.
Masseth, David A.: *See*—
Brooks, Thomas W.; Masseth, David A.; Malecka, Joseph R.; Stiver, C. Edward; Pearson, Charles S.; and Fox, James D., 4,703,643, Cl. 72-402.000.

Massett, Stephen S., to Pfizer Inc. 1,1-bis(p-fluorophenyl)urea. 4,698,444, 10-6-87, Cl. 564-54.000.
Massey, Arie F., Jr., to Massey Products, Inc. Packing with compensating means. 4,643,440, 2-17-87, Cl. 277-117.000.
Massey Combines Corporation: *See*—
Helm, William N.; and Link, David G., 4,657,029, Cl. 130-27.0JT.
Massey, Dennis W.: *See*—
Goldstein, Yeshayahu S. A.; Tidman, Derek A.; Burton, Rodney L.; Massey, Dennis W.; and Winsor, Niels K., 4,715,261, Cl. 89-8.000.
Massey, Eddie H., to Eli Lilly and Company. Soluble dobutamine salts. 4,704,407, 11-3-87, Cl. 514-649.000.
Massey, Edwin M., to ELXSI. Backplane power connector system. 4,694,123, 9-15-87, Cl. 174-117.0FF.
Massey-Ferguson Inc.: *See*—
Buback, John, 4,640,146, Cl. 74-359.000.
Massey-Ferguson Services N.V.: *See*—
Brown, David J., 4,680,983, Cl. 74-474.000.
Mueller, Otto, Jr., 4,715,012, Cl. 364-900.000.
Massey, Freddie L. *See*—
Callander, Douglas D.; and Massey, Freddie L., 4,654,399, Cl. 524-720.000.
Massey, Jerald L. Projected toy with rotatable paddles. 4,634,394, 1-6-87, Cl. 446-36.000.
Massey, Peyton L. Prehensile thumb and finger prosthesis. 4,685,924, 8-11-87, Cl. 623-63.000.
Massey, Peyton L. Reshapable prosthesis. 4,704,129, 11-3-87, Cl. 623-25.000.
Massey Products, Inc.: *See*—
Massey, Arie F., Jr., 4,643,440, Cl. 277-117.000.
Massicot, Patrick: *See*—
Anzola, Michel; Lefevre, Daniel; and Massicot, Patrick, 4,659,447, Cl. 204-212.000.
Anzola, Michel; Lefevre, Daniel; Massicot, Patrick; Pierre, Jacques; and Henry, Antoine, 4,673,585, Cl. 427-6.000.
Massie, James D.: *See*—
Flores, David P.; Meiller, John G.; and Massie, James D., 4,680,357, Cl. 526-265.000.
Massie, Mark A.; and Rhodes, Christopher C., to Xerox Corporation. Development apparatus. 4,679,928, 7-14-87, Cl. 355-3.0DD.
Massimo, Bucefari; and Rubechini, Roberto, to I.C.M. S.p.A. Italiana Costruzioni Metalmeccaniche; and T.E.M. s.r.l. Tecnologie Elettroniche e Meccaniche. Device for the parallel automatic feeding of ornamental chains, in particular for the production of paired chains. 4,658,576, 4-21-87, Cl. 59-34.000.
Massingill, Larry W.; and Perkins, Derrick O., to OnLine Computer Systems Inc. Apparatus for generating signals synchronized to an unstable external signal. 4,695,805, 9-22-87, Cl. 328-72.000.
Massit, Claude; Nicolas, Gerard; and Turc, Gerard, to Commissariat a l'Energie Atomique. Microconnector with a high density of contacts. 4,684,181, 8-4-87, Cl. 439-59.000.
Massof, Robert W.; and Mangat-Rai, John N., to LKC Systems, Inc.; and Vision Research Associates, Inc. Glaucoma detection utilizing pattern discrimination test. 4,634,243, 1-6-87, Cl. 351-243.000.
Masson, Gerald M.: *See*—
Coraluppi, Giorgio L.; Driscoll, John L.; Jacobs, David C.; Law, Edward K. H.; and Masson, Gerald M., 4,654,842, Cl. 370-16.000.
Masson, James H., to United States of America, Air Force. Autonomous uninterruptable power supply apparatus. 4,673,826, 6-16-87, Cl. 307-66.000.
Masson, Jean-Paul: *See*—
Thuries, Edmond; Masson, Jean-Paul; and Malik, Louis, 4,715,834, Cl. 439-842.000.
Masson, Jean-Rene: *See*—
Poirier, Clovis; Banville, Marcel; McDonald, Mario; McDonald, Sabin; Johnston, Stephen; and Masson, Jean-Rene, 4,704,815, Cl. 43-4.000.
Masson, Paul J., to Lingo Manufacturing Company. Foldable display assembly. 4,657,149, 4-14-87, Cl. 211-194.000.
Masson, Ronald K.: *See*—
Thompson, John R.; Hunting, Curtis J.; Masson, Ronald K.; and Trivelpiece, Craig E., 4,716,588, Cl. 380-20.000.
Massonnet, Henry. Refuse bin incorporating compacting means. 4,658,720, 4-21-87, Cl. 100-226.000.
Massonnet, Henry. Easy chair. 4,682,816, 7-28-87, Cl. 297-359.000.
Massot, Jacqueline O.; and Astoin, Jaques N., to Univablot. Medicaments containing pichia or extracts thereof. 4,705,780, 11-10-87, Cl. 514-54.000.
Mast, Jan-Hilbert: *See*—
Bathelt, Heinrich; Ehrl, Winfried; Wehowsky, Frank; Kleber, Rolf; Lotz, Werner; Glenz, Wolfgang; Herdt, Hubert; Jackel, Lothar; Mast, Jan-Hilbert; Hintermeier, Karl; and Muller, Manfred, 4,709,074, Cl. 560-33.000.
Mast, Karl-Friedrich: *See*—
Betzler, Peter; and Mast, Karl-Friedrich, 4,687,342, Cl. 374-32.000.
Mastak, Edmond J., to Simplimatic Engineering Co. Loading apparatus particularly useful for the loading or unstable containers. 4,667,808, 5-26-87, Cl. 198-419.000.
Mastandrea, Frank. Support for tomato plants and the like. 4,677,788, 7-7-87, Cl. 47-47.000.
Mastboom, Johannes G. P., to U.S. Philips Corporation. Electrical lamp with a screw base formed by identical halves. 4,705,984, 11-10-87, Cl. 313-318.000.
Mastel, Douglas J.; and Barbeau, Alan D., to Magnum Diamond Reclamation, Inc. Apparatus and method for setting knife blade depth. 4,662,075, 5-5-87, Cl. 33-628.000.
Master Chemical Corporation: *See*—
Threadgill, James A., 4,652,372, Cl. 210-242.300.
Threadgill, James A., 4,708,539, Cl. 408-61.000.
Master Conveyor Corporation: *See*—
Mylrea, William J.; and Thompson, Gerald C., 4,708,564, Cl. 414-36.000.
Master Industries, Inc.: *See*—
Johnston, Robert L., 4,664,427, Cl. 285-340.000.
Master Peintures: *See*—
Guillaumon, Jean-Claude; Blet, Louis J. C.; and Guerard, Francoise M. J. B., 4,655,966, Cl. 252-518.000.
Master, Raj N.: *See*—
Herron, Lester W.; Master, Raj N.; and Nufer, Robert W., 4,671,928, Cl. 419-10.000.
Masterman, John M., to Dowty Fuel Systems Limited. Electrical machine. 4,704,552, 11-3-87, Cl. 310-148.000.
Masterman, Michael: *See*—
Atack, Philip A.; Gore, Trevor A.; and Masterman, Michael, 4,671,091, Cl. 72-45.000.
Masters, Edward R.: *See*—
Fanelli, Michael W.; and Masters, Edward R., 4,646,213, Cl. 362-180.000.
Masters, Edwin J.; and Ebaugh, Paul L. Safety needle cap. 4,654,034, 3-31-87, Cl. 604-192.000.
Masters, Edwin J.; and Ebaugh, Paul L. Syringe with safety sheath. 4,681,567, 7-21-87, Cl. 604-198.000.
Masters, Gene P., to Mentor Corporation. Positionable penile prosthesis. 4,669,456, 6-2-87, Cl. 128-79.000.
Masters, George S.; Masters, George S., Jr.; and Masters, Richard C., to Masters, George S., Sr. Pre-assembled post lock assembly for loose leaf binders. 4,674,905, 6-23-87, Cl. 402-66.000.
Masters, George S., Jr.: *See*—
Masters, George S.; Masters, George S., Jr.; and Masters, Richard C., 4,674,905, Cl. 402-66.000.
Masters, George S., Sr.: *See*—
Masters, George S.; Masters, George S., Jr.; and Masters, Richard C., 4,674,905, Cl. 402-66.000.
Masters, Jeffery; and Webb, Roger J., to British Gas Corporation. Regenerative heating systems. 4,671,345, 6-9-87, Cl. 165-9.300.
Masters, Jeffery; and Webb, Roger J., to British Gas Corporation. Regenerative heating systems. 4,671,346, 6-9-87, Cl. 165-9.300.
Masters, Richard C.: *See*—
Masters, George S.; Masters, George S., Jr.; and Masters, Richard C., 4,674,905, Cl. 402-66.000.
Masters, Scott A. Push stick for plumb and line adjustment of stud walls. 4,660,806, 4-28-87, Cl. 254-11.000.
Masters, Thomas N. Automatic leveling device for hemodynamic pressure measuring system. 4,669,484, 6-2-87, Cl. 128-673.000.
Masters, Timothy E.; and Wehrer, Wayne J., to Carroll Touch Inc. Phototransistor apparatus with current injection ambient compensation. 4,713,534, 12-15-87, Cl. 250-214.00B.
Masters, William E. Computer automated manufacturing process and system. 4,665,492, 5-12-87, Cl. 364-468.000.
Masters, William E. Kayak frame section and method. 4,681,060, 7-21-87, Cl. 114-347.000.
Masters, William E. Variable volume kayak hull. 4,715,311, 12-29-87, Cl. 114-347.000.
Masterson, Daniel M.: *See*—
Owen, Lawrence B.; Masterson, Daniel M.; and Green, Sidney J., 4,637,217, Cl. 62-74.000.
Masterson, Ian F.; Feinstein, Jonathan J.; and Stambaugh, Lanier, to Union Carbide Corporation. Very small refining vessel. 4,647,019, 3-3-87, Cl. 266-243.000.
Masterson, Ian F.; George, David B.; and Rudloff, Frederick A., to Union Carbide Corporation. Submerged combustion in molten materials. 4,657,586, 4-14-87, Cl. 75-76.000.
Masterson, Ian F.; Feinstein, Jonathan J.; and Stambaugh, Lanier, to Union Carbide Corporation. Method for refining very small heats of molten metal. 4,708,738, 11-24-87, Cl. 75-59.100.
Masterson, Tipton T.: *See*—
Pierce, Richard A.; and Masterson, Tipton T., 4,704,415, Cl. 524-8.000.
Masterton, John, to STC PLC. Phase corrector. 4,716,579, 12-29-87, Cl. 375-81.000.
Masterton, Walter D.; and Good, Andrew, to RCA Corporation. Color picture tube having improved slit column pattern. 4,665,339, 5-12-87, Cl. 313-403.000.
Masterton, Walter D., to RCA Corporation. Color picture tube having shadow mask with varied aperture column spacing. 4,691,138, 9-1-87, Cl. 313-403.000.
Masterton, Walter D.: *See*—
Morrell, Albert M.; Masterton, Walter D.; and Bauder, Richard C., 4,634,247, Cl. 354-1.000.
Mastner, Georg, to BBC Brown, Boveri & Company, Limited. Thyristor circuit for current regulation. 4,639,662, 1-27-87, Cl. 323-343.000.
Mastner, Georg: *See*—
Maschek, Martin; and Mastner, Georg, 4,656,554, Cl. 361-56.000.
Masto, Michael H.: *See*—
Caruso, Nancy J.; and Masto, Michael H., 4,643,690, Cl. 445-6.000.
Maston, Donald M.; and Mertz, Kenneth H., to Chrysler Motors Corporation. Printed circuit board, edgeboard connector therefor. 4,695,112, 9-22-87, Cl. 439-350.000.
Mastran, David V., to Maximus, Inc. Process for synchronizing computer video with independent audio. 4,641,253, 2-3-87, Cl. 364-518.000.

Mastriani, Dennis; Jacoby, Donald; Weise, Jeanne; Linick, Bruce; Marinho, John; and DeSantis, Charles M., to Canadian Marconi Corporation. Antenna alignment system and method. 4,696,053, 9-22-87, Cl. 455-67.000.

Mastrodicasa, Arthur R. Adjustable bracket assembly for supporting a shelf. 4,658,968, 4-21-87, Cl. 211-187.000.

Mastrodicasa, Arthur R. Adjustable bracket assembly for supporting a shelf. 4,658,969, 4-21-87, Cl. 211-187.000.

Mastrodicasa, Arthur R. Adjustable bracket assembly for supporting a shelf. 4,669,692, 6-2-87, Cl. 248-250.000.

Mastroianni, Anthony R., to RCA Corporation. Analog-to-digital converter with scaling of input signal. 4,641,130, 2-3-87, Cl. 340-347.0AD.

Mastrojeni, Ettore, to SGS-ATES Componenti Elettronici S.p.A. Ratio discriminator. 4,634,991, 1-6-87, Cl. 329-129.000.

Mastromarino, Raffaele: *See—*
Marino, Emilio; and Mastromarino, Raffaele, 4,682,717, Cl. 222-591.000.

Mastromattei, Robert, to Pacific Scientific Co. Magnetically enhanced variable reluctance motor systems. 4,713,570, 12-15-87, Cl. 310-154.000.

Mastromoro, John F. Windshield cleaning system. 4,685,168, 8-11-87, Cl. 15-250.00R.

Mastronardo, Patrick, to Lebo Peerless, Inc. Multiple cassette storage tray. 4,705,169, 11-10-87, Cl. 206-387.000.

Mastukura, Motoo: *See—*
Higuchi, Takayoshi; Tanahashi, Mitsuhiko; and Mastukura, Motoo, 4,684,740, Cl. 549-464.000.

Mastumoto, Makoto; and Hayama, Mamoru, to Mazda Motor Corporation. Automatic cruise control system for a motor vehicle. 4,697,478, 10-6-87, Cl. 74-859.000.

Masubuchi, Noriaki: *See—*
Kogure, Toshiharu; and Masubuchi, Noriaki, 4,658,944, Cl. 192-84.0PM.

Masubuchi, Sadao, to Citizen Watch Co., Ltd. Matrix-type color picture display apparatus with four-element unit displaying picture elements each being divided into at least two unit driving picture elements. 4,652,912, 3-24-87, Cl. 358-59.000.

Masubuchi, Sadao, to Citizen Watch Co., Ltd. Expansion system for a liquid crystal display. 4,662,718, 5-5-87, Cl. 350-332.000.

Masubuchi, Sadao, to Citizen Watch Co., Ltd. Ferroelectric liquid crystal display apparatus using a reset voltage step. 4,711,531, 12-8-87, Cl. 350-350.00S.

Masubuchi, Takamichi: *See—*
Koike, Tatsuhiro; and Masubuchi, Takamichi, 4,633,752, Cl. 84-1.030.

Masubuchi, Tetsuo: *See—*
Kishimoto, Yasushi; and Masubuchi, Tetsuo, 4,673,714, Cl. 525-314.000.

Masucci, Ann M. Rear seat mirror. 4,712,892, 12-15-87, Cl. 350-631.000.

Masuch, Gerhard; and Riedel, Claus, to Hauni-Werke Korber & Co. KG. Method and apparatus for supplying wrapping material to cigarette packing and like machines. 4,641,771, 2-10-87, Cl. 226-115.000.

Masuch, Gerhard: *See—*
Deutsch, Reinhard; Pohl, Klaus Jurgen; and Masuch, Gerhard, 4,643,027, Cl. 73-432.100.

Masuch, Peter: *See—*
Langhoff, Josef; Krischke, Hermann; Geldmacher, Horst; Golomb, Manfred; Kamp, Karl-Heinz; Masuch, Peter; and Chalupnik, Rolf, 4,715,809, Cl. 431-170.000.

Masuda, Akira: *See—*
Hishinuma, Osamu; Masuda, Akira; Ohmori, Toshihiko; Miyaki, Masahiko; and Takemoto, Eiji, 4,671,239, Cl. 123-458.000.
Kondo, Toshio; Kobayashi, Akio; Hiromasa, Shunichiro; Masuda, Akira; and Miyaki, Masahiko, 4,649,745, Cl. 73-204.000.
Matsumura, Toshimi; Otuka, Isao; and Masuda, Akira, 4,671,236, Cl. 123-357.000.
Ono, Tatsuo; Masuda, Akira; and Kuramoto, Kikuzo, 4,684,034, Cl. 220-6.000.

Masuda, Eiji; and Sakamoto, Shigemi, to Tokyo Shibaura Denki Kabushiki Kaisha. Digital-analog converter. 4,638,363, 1-20-87, Cl. 340-347.0DA.

Masuda, Eiji; and Fujita, Yasuhiko, to Kabushiki Kaisha Toshiba. Dual-tone multiple-frequency-signal generating apparatus. 4,639,554, 1-27-87, Cl. 340-365.00S.

Masuda, Eiji; and Matsuo, Kenji, to Tokyo Shibaura Denki Kabushiki Kaisha. Voltage comparison circuit with ripple component elimination. 4,656,429, 4-7-87, Cl. 328-149.000.

Masuda, Eiji; and Fujita, Yasuhiko, to Kabushiki Kaisha Toshiba. Digital-to-analog converter. 4,665,381, 5-12-87, Cl. 340-347.0DA.

Masuda, Fumitoshi: *See—*
Watanabe, Hiroyuki; and Masuda, Fumitoshi, 4,646,055, Cl. 338-162.000.

Masuda, Hiroo: *See—*
Hagiwara, Takaaki; Kaga, Toru; and Masuda, Hiroo, 4,656,607, Cl. 365-182.000.
Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; and Kawamoto, Hiroshi, 4,646,267, Cl. 365-189.000.
Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; and Kawamoto, Hiroshi, 4,709,353, Cl. 365-205.000.
Sunami, Hideo; Masuda, Hiroo; Kamigaki, Yoshiaki; Shimohigashi, Katsuhiro; and Takeda, Eiji, 4,656,492, Cl. 357-23.300.

Masuda, Hiroyuki: *See—*
Ohashi, Masahisa; and Masuda, Hiroyuki, 4,647,421, Cl. 376-216.000.

Masuda, Ikuro; Iwamura, Masahiro; and Nishihara, Motohisa, to Hitachi, Ltd. Composite circuit of bipolar transistors and field effect transistors. 4,661,723, 4-28-87, Cl. 307-446.000.

Masuda, Ikuro: *See—*
Iwamura, Masahiro; and Masuda, Ikuro, 4,694,202, Cl. 307-475.000.
Kuboki, Shigeo; Masuda, Ikuro; Masuda, Toshiaki; and Hayashi, Terumine, 4,701,922, Cl. 371-25.000.
Ogiue, Katsumi; Suzuki, Yukio; Masuda, Ikuro; Odaka, Masanori; and Uchida, Hideaki, 4,713,796, Cl. 365-189.000.
Suzuki, Yukio; Masuda, Ikuro; Iwamura, Masahiro; Kadono, Shinji; Uragami, Akira; Yoshimura, Masayoshi; and Matsubara, Toshiaki, 4,689,503, Cl. 307-446.000.
Uragami, Akira; Suzuki, Yukio; Kadono, Shinji; Iwamura, Masahiro; Masuda, Ikuro; and Yamauchi, Tatsumi, 4,678,943, Cl. 307-473.000.
Uragami, Akira; Suzuki, Yukio; Iwamura, Masahiro; and Masuda, Ikuro, 4,694,203, Cl. 307-446.000.

Masuda, Isao: *See—*
Sugiyama, Hiroyuki; Komura, Makoto; Masuda, Isao; Nishikawa, Kazunori; and Iwasaki, Yoshiki, 4,667,318, Cl. 369-59.000.

Masuda, Kasaku; Sato, Ryosuke; Ishii, Fumio; Kimura, Kazuhiko; and Ninomiya, Hidetaka, to Konishiroku Photo Industry Co., Ltd. Method for synthesizing a magenta coupler by selectively etherifying 4-hydroxy-5-pyrazolone. 4,692,529, 9-8-87, Cl. 546-141.000.

Masuda, Katsuhiko: *See—*
Fuke, Akira; Tokita, Yasuhiro; and Masuda, Katsuhiko, 4,701,925, Cl. 372-38.000.
Fuke, Akira; Tokita, Yasuhiro; and Masuda, Katsuhiko, 4,710,938, Cl. 372-56.000.

Masuda, Katsuya: *See—*
Ikehata, Tsutomu; Masuda, Katsuya; Yasunaga, Makoto; and Michioto, Takao, 4,687,355, Cl. 400-124.000.

Masuda, Koji. Non-skid ice and snow tread configuration for pneumatic vehicle tires. 4,667,719, 5-26-87, Cl. 152-209.00R.

Masuda, Koji: *See—*
Horie, Kiyoshi; Noami, Tsuneo; Masuda, Koji; Saitoh, Koichi; Maruyama, Kazuo; Fujimura, Yoshifuko; Suemitsu, Yuji; and Yamamoto, Toshiro, 4,653,896, Cl. 355-3.0DD.

Masuda, Kozo: *See—*
Terada, Shinichi; Masuda, Kozo; and Adachi, Yoshimitsu, 4,635,131, Cl. 358-296.000.

Masuda, Masachika; and Murakami, Gen, to Hitachi, Ltd. Semiconductor device and method of producing the same. 4,706,105, 11-10-87, Cl. 357-74.000.

Masuda, Masami: *See—*
Daiko, Yoichi; Masuda, Masami; and Terabayashi, Takao, 4,697,964, Cl. 408-6.000.

Masuda, Masamichi; Sawai, Shinichi; and Ishii, Naoto, to Honda Giken Kogyo Kabushiki Kaisha; and Tokyo Seat Kabushiki Kaisha. Decreasing the frictional sounds of non-olefinic synthetic resin materials. 4,654,272, 3-31-87, Cl. 428-474.400.

Masuda, Masamitsu: *See—*
Yoshida, Tatzo; Tanji, Akihito; Masuda, Masamitsu; and Koyama, Jiro, 4,645,293, Cl. 350-96.140.

Masuda, Michio: *See—*
Hanma, Kentaro; and Masuda, Michio, 4,675,747, Cl. 358-335.000.
Kobayashi, Masaharu; Noguchi, Takaharu; Arai, Takao; Masuda, Michio; and Yumde, Yasufumi, 4,670,796, Cl. 358-310.000.

Masuda, Michiyuki: *See—*
Okada, Kozo; Masuda, Michiyuki; and Ueha, Sadayuki, 4,634,916, Cl. 310-323.000.

Masuda, Mitsuhiro; Igarashi, Osamu; Tokuyama, Keiichi; and Katogi, Kozo, to Hitachi, Ltd. Liquid crystal panel display device. 4,649,381, 3-10-87, Cl. 340-784.000.

Masuda, Mitsuhiro: *See—*
Tokuyama, Keiichi; Naito, Shotaro; and Masuda, Mitsuhiro, 4,635,034, Cl. 340-52.00F.
Tokuyama, Keiichi; Masuda, Mitsuhiro; Igarashi, Osamu; and Hasegawa, Taiji, 4,700,303, Cl. 364-424.000.

Masuda, Mitsuyoshi; Mori, Keiki; and Yukimoto, Kazuyoshi, to Aisin Seiki Kabushiki Kaisha. Safety device for vehicle sun roof. 4,659,141, 4-21-87, Cl. 296-223.000.

Masuda, Naofumi: *See—*
Takeshita, Hajime; Iwase, Takahiro; Masuda, Naofumi; Sibata, Takuo; Mochizuki, Hiroyuki; Kobayashi, Nobuo; Kawakami, Seiho; and Kuroiwa, Yosio, 4,693,813, Cl. 409-244.000.

Masuda, Naosuke; and Sunaga, Sohsuke, to Jidosha Kiki Co., Ltd. Method for producing worm shaft for use in power steering apparatus. 4,689,983, 9-1-87, Cl. 72-356.000.

Masuda, Noboru; Tomaki, Kenji; Oosawa, Tetsuo; and Murata, Michihiro, to Murata Manufacturing Co., Ltd. Pyroelectric type detecting device. 4,692,619, 9-8-87, Cl. 250-338.000.

Masuda, Noboru; Asano, Michio; Hayashi, Takehisa; Tanaka, Hirotoshi; and Masaki, Akira, to Hitachi, Ltd. Fluctuation-free input buffer. 4,697,110, 9-29-87, Cl. 307-475.000.

Masuda, Nobuhito: *See—*
Yasuda, Yukio; and Masuda, Nobuhito, 4,657,739, Cl. 422-56.000.

Masuda, Senichi, to NGK Spark Plug Co., Ltd. High-frequency high-voltage power supply. 4,644,457, 2-17-87, Cl. 363-37.000.

Masuda, Senichi; Yonezawa, Ryohei; and Toida, Kiyoshi. Film-shaped dust collecting electrodes and electric dust collecting apparatus having a stack of the same dust collecting electrodes. 4,652,281, 3-24-87, Cl. 55-130.000.

Masuda, Senichi; and Fukuura, Isamu, to NGK Spark Plug Co., Ltd. Method of making an electric field device. 4,652,318, 3-24-87, Cl. 156-89.000.

Masuda, Senichi. High-voltage pulse power source and pulse-charging type electric dust collecting apparatus equipped therewith. 4,665,476, 5-12-87, Cl. 363-86.000.

Masuda, Senichi; Fukuura, Isamu; and Shiromizu, Hisaharu, to NGK Spark Plug Co., Ltd. Ceramic ozonizer. 4,666,679, 5-19-87, Cl. 422-186.200.

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Masuda, Senichi. RF high-voltage power supply. 4,706,182, 11-10-87, Cl. 363-139.000.

Masuda, Senichi; and Sugita, Naoki, to Masuda, Serichi. Electrostatic filter dust collector. 4,715,870, 12-29-87, Cl. 55-132.000.

Masuda, Shigeo; Katsuda, Morihiko; and Ueoka, Isao, to Sumitomo Electric Industries, Ltd. Process for producing an insulated twisted electric wire. 4,647,474, 3-3-87, Cl. 427-44.000.

Masuda, Shigeru: *See*—
Mori, Teijiro; Wada, Yuichi; Nishizako, Shizutaka; Kakizoe, Masahiro; and Masuda, Shigeru, 4,652,707, Cl. 200-144.00R.

Masuda, Shinichi, to Sharp Kabushiki Kaisha. Multifunctional telephone. 4,709,387, 11-24-87, Cl. 379-354.000.

Masuda, Shinji, to NEC Corporation. Operational amplifier. 4,644,291, 2-17-87, Cl. 330-261.000.

Masuda, Shinji, to NEC Corporation. Constant voltage generator using memory transistors. 4,673,866, 6-16-87, Cl. 323-313.000.

Masuda, Shuichi: *See*—
Litzkow, Carl A.; Webb, J. C.; and Masuda, Shuichi, 4,671,114, Cl. 73-587.000.

Masuda, Shuji; and Oda, Hiroyuki, to Mazda Motor Corporation. Single overhead camshaft engine. 4,714,059, 12-22-87, Cl. 123-90.230.

Masuda, Shuji: *See*—
Watarai, Hisao; Tanaka, Masahiro; Masuda, Shuji; Suzuki, Kenji; and Masumoto, Tsuyoshi, 4,636,806, Cl. 346-1.100.

Masuda, Shunichi: *See*—
Shimizu, Katsuichi; Masuda, Shunichi; Yagasaki, Toshiaki; and Sakamaki, Hisashi, 4,638,368, Cl. 358-256.000.
Yagasaki, Toshiaki; Masuda, Shunichi; and Sato, Yukio, 4,669,862, Cl. 355-14.00R.

Masuda, Shunji; Oda, Hiroyuki; and Morita, Yasuyuki, to Mazda Motor Corporation. Valve timing control system for internal combustion engine. 4,651,684, 3-24-87, Cl. 123-90.160.

Masuda, Shunsuke: *See*—
Yamamoto, Masatoshi; Kawai, Yasushi; Shudo, Katsuyoshi; Kato, Hiroyuki; and Masuda, Shunsuke, 4,642,437, Cl. 219-84.000.

Masuda, Sumio; Iiyama, Hiroshi; and Tamura, Kazuyuki, to Jeco Co., Ltd. Angle sensor. 4,692,613, 9-8-87, Cl. 250-231.0SE.

Masuda, Takashi; Nakamura, Yukitugu; and Sekiguchi, Kyoji, to Canon Kabushiki Kaisha. Cornea shape measuring apparatus. 4,710,003, 12-1-87, Cl. 351-212.000.

Masuda, Takashi: *See*—
Kohayakawa, Yoshimi; and Masuda, Takashi, 4,634,241, Cl. 350-516.000.
Kohayakawa, Yoshimi; and Masuda, Takashi, 4,704,012, Cl. 350-516.000.
Nakamura, Yukitugu; Masuda, Takashi; and Sekiguchi, Kyoji, 4,660,946, Cl. 351-212.000.
Nakamura, Yukitugu; Sekiguchi, Kyoji; and Masuda, Takashi, 4,666,269, Cl. 351-212.000.

Masuda, Takayoshi: *See*—
Ando, Shinji; Ohtaguro, Masami; Masuda, Takayoshi; and Watanabe, Yoshimoto, 4,713,245, Cl. 424-438.000.

Masuda, Tatsuo; Enokimoto, Akito; and Ohtsuka, Kazutoshi, to Honda Giken Kogyo Kabushiki Kaisha. Wheel suspension for a vehicle. 4,641,854, 2-10-87, Cl. 280-701.000.

Masuda, Tatsuo: *See*—
Sato, Goro; Ogata, Masamitsu; Masuda, Tatsuo; and Ida, Takanori, 4,692,236, Cl. 208-114.000.

Masuda, Teruo; and Yamaguchi, Kichiro, to France Bed Co., Ltd. Foldable massage bed with reciprocating rollers. 4,656,998, 4-14-87, Cl. 128-57.000.

Masuda, Teruo; and Yamaguchi, Kichiro, to France Bed Co., Ltd. Massage apparatus. 4,662,362, 5-5-87, Cl. 128-33.000.

Masuda, Toru, to Hosiden Electronics Co., Ltd. Jack with recessed contacts. 4,659,167, 4-21-87, Cl. 339-182.00R.

Masuda, Toru; and Shibano, Yasuji, to Hosiden Electronics Co., Ltd. Method of manufacturing a jack. 4,685,212, 8-11-87, Cl. 29-876.000.

Masuda, Toru: *See*—
Iwasa, Yoshihiro; Masuda, Toru; and Shibano, Yasuji, 4,715,819, Cl. 439-31.000.

Masuda, Toshiaki: *See*—
Kuboki, Shigeo; Masuda, Ikuro; Masuda, Toshiaki; and Hayashi, Terumine, 4,701,922, Cl. 371-25.000.

Masuda, Toshihide: *See*—
Kido, Tomoyuki; and Masuda, Toshihide, 4,664,858, Cl. 264-44.000.

Masuda, Toshiro; Ishizuka, Kouichi; Fujita, Toshiji; and Kinoshita, Yoshio, to Toppan Printing Co., Ltd.; and Mitsubishi Jukogyo Kabushiki Kaisha. Inspecting device for print. 4,685,139, 8-4-87, Cl. 382-1.000.

Masuda, Toyohiko: *See*—
Horibe, Youshun; Ohshima, Yoshikuni; and Masuda, Toyohiko, 4,637,350, Cl. 122-441.000.

Masuda, Tsugunori; and Muto, Shoji, to Kabushiki Kaisha Tamura Seisakusho. Jig for supporting array of articles to be soldered and device for transferring articles to jig. 4,682,563, 7-28-87, Cl. 118-503.000.

Masuda, Yoshiaki: *See*—
Yamaguchi, Fumio; Nakaniwa, Yoshiaki; Masuda, Yoshiaki; Sakurai, Hisayuki; and Nakashima, Waichiro, 4,633,931, Cl. 164-110.000.

Masuda, Yoshifumi: *See*—
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Masuda, Yoshikazu: *See*—
Yoshinoto, Takeshi; Tsuda, Masanari; Masuda, Yoshikazu; and Yokoi, Masakatsu, 4,660,094, Cl. 358-285.000.

Masuda, Yoshimichi: *See*—
Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiraga; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjiro; Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.

Masuda, Yoshinori; Saito, Hiroshi; and Kobayashi, Hiroshi, to Asahi Kasei Kogyo Kabushiki Kaisha. High molecular weight fluoroelastomer. 4,690,994, 9-1-87, Cl. 526-254.000.

Masuda, Youichi: *See*—
Onodera, Toshihiro; and Masuda, Youichi, 4,698,743, Cl. 363-136.000.

Masuda, Yukihiro; Ishibashi, Shizuka; Takahashi, Kenji; Kodama, Takuma; Kudo, Koji; and Hombough, Masanori, to Hitachi, Ltd.; and Hitachi Denshi Kabushiki Kaisha. Television camera. 4,647,822, 3-3-87, Cl. 315-386.000.

Masuda, Yukihiro: *See*—
Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.

Masuda, Yutaka, to Yamaha Hatsudoki Kabushiki Kaisha. Automatic speed control system for motorcycles. 4,645,027, 2-24-87, Cl. 180-176.000.

Masugi, Takashi: *See*—
Takaya, Takao; Takasugi, Hisashi; Masugi, Takashi; Yamanada, Hideaki; and Kawabata, Kohji, 4,705,851, Cl. 540-215.000.

Masuhara, Eiichi: *See*—
Yokoyama, Yuuichi; Masuhara, Eiichi; Kadoma, Yoshinori; Tarumi, Niro; and Tsuchiya, Makoto, 4,650,843, Cl. 526-245.000.

Masuhara, Hiromu; and Kimura, Tsunekazu, to NEC Corporation. Error correcting system. 4,716,566, 12-29-87, Cl. 371-37.000.

Masuhara, Kenichi; Yamayoshi, Kazuo; and Wakabayashi, Kouji, to Nisshin Steel Co., Ltd. Heat resistant precoated steel sheet and process for the production thereof. 4,695,516, 9-22-87, Cl. 428-623.000.

Masuhara, Kenichi; Yamayoshi, Kazuo; and Wakabayashi, Kouji, to Nisshin Steel Co., Ltd. Heat resistant precoated steel sheet and process for the production thereof. 4,702,968, 10-27-87, Cl. 428-623.000.

Masuhara, Toshiaki: *See*—
Aoki, Masakazu; Horiguchi, Masashi; Nakagome, Yoshinobu; Ikenaga, Shinichi; Shimohigashi, Katsuhiro; Masuhara, Toshiaki; Itoh, Kiyoo; Nakamura, Hideo; and Minato, Osamu, 4,701,884, Cl. 365-189.000.
Hanamura, Shoji; Aoki, Masaaki; and Masuhara, Toshiaki, 4,710,648, Cl. 307-443.000.
Shimohigashi, Katsuhiro; Kubo, Masaharu; Miyauchi, Katsuki; Masuhara, Toshiaki; and Minato, Osamu, 4,672,586, Cl. 365-229.000.

Masuhara, Yasuhiro; Utamura, Motoaki; Kashiwai, Shinichi; Yokoyama, Iwao; Murata, Shigeto; Nakao, Toshitsugu; and Maeda, Yuichiro, to Hitachi, Ltd. Nuclear reactor. 4,663,116, 5-5-87, Cl. 376-377.000.

Masuho, Yasuhiko; Hara, Takeshi; and Noguchi, Teruhisa, to Teijin Limited. Antitumor protein hybrid and process for the preparation thereof. 4,638,049, 1-20-87, Cl. 530-388.000.

Masui, Akio: *See*—
Kato, Shoichi; Shimano, Shizuo; Hayaoka, Tatsumi; and Masui, Akio, 4,652,574, Cl. 514-347.000.

Masui, Haruyoshi: *See*—
Hirota, Tetsuro; Araki, Shigeyuki; Yokoyama, Shizuo; Masui, Haruyoshi; and Hirata, Toshitaka, 4,661,822, Cl. 346-75.000.

Masui, Koji: *See*—
Suzuki, Kunio; Onuma, Kunihiko; and Masui, Koji, 4,658,376, Cl. 365-1.000.

Masui, Takachika: *See*—
Inada, Shoshichiro; Furukawa, Kurune; Masui, Takachika; Honda, Keijiro; Ogasawara, Joji; and Tsubakimoto, Giichi, 4,714,791, Cl. 568-913.000.

Masui, Takatoshi: *See*—
Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Nagai, Toshinari; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,693,076, Cl. 60-274.000.
Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,703,619, Cl. 60-274.000.
Katsuno, Toshiyasu; Nagai, Toshinari; Masui, Takatoshi; and Satou, Yasushi, 4,707,984, Cl. 60-274.000.
Nagai, Toshinari; Masui, Takatoshi; Sato, Yasushi; and Katsuno, Toshiyasu, 4,707,985, Cl. 60-274.000.
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Masui, Takeshi; and Sano, Morio, to Denki Kagaku Kogyo Kabushiki Kaisha. Anti-static jacket for floppy disk. 4,637,945, 1-20-87, Cl. 428-35.000.

Masui, Takeshi, to Sumitomo Metal Industries, Ltd. Method for correcting rolled material. 4,651,549, 3-24-87, Cl. 72-161.000.

Masui, Takeshi; Yasui, Eizo; and Matsuda, Yukio, to Sumitomo Metal Industries, Ltd. Tandem mill. 4,658,620, 4-21-87, Cl. 72-234.000.

Masui, Toshiyuki; Hirasawa, Masahide; Kozuki, Susumu; Kashida, Motokazu; Takei, Masahiro; and Nagasawa, Kenichi, to Canon Kabushiki Kaisha. Data processing device. 4,675,867, 6-23-87, Cl. 371-31.000.

Masui, Toshiyuki: *See*—
Takei, Masahiro; Kozuki, Susumu; Masui, Toshiyuki; Hirasawa, Masahide; and Kashida, Motokazu, 4,696,008, Cl. 371-47.000.

Masui, Yoshihiro: *See*—
Inouye, Masayori; and Masui, Yoshihiro, 4,643,969, Cl. 435-68.000.

Masuishi, Tetsuya: *See*—
Watanabe, Toshinori; Masuishi, Tetsuya; Sasaki, Koji; Haruna, Koichi; and Horie, Noboru, 4,651,284, Cl. 364-491.000.

Masuko, Akinori; Kuroiwa, Wataru; Uehara, Shouji; Uekusa, Tsutomu; Rast, Robert M.; and Campbell, W. Sherwood, to Kabushiki Kaisha Toshiba; and American Television & Communications Corporation. Communication data processing device of cable television system. 4,686,564, 8-11-87, Cl. 358-86.000.

Masumitsu, Noriyuki: *See*—
Takashima, Kiyoshi; Suzuki, Isao; Yoshida, Masashi; Tanaka, Ryutatsu; Masumitsu, Noriyuki; Kinoshita, Kazuhiro; and Ishii, Hiromi, 4,686,081, Cl. 420-29.000.

Masumori, Hideo: *See*—
Takeuchi, Yukihisa; and Masumori, Hideo, 4,649,125, Cl. 501-15.000.

Masumoto, Hakaru; Sawaya, Showhachi; and Hinai, Masakatsu, to Foundation: The Research Institute of Electric and Magnetic Alloys, The. High damping capacity aluminum alloy. 4,650,528, 3-17-87, Cl. 148-437.000.

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Masumoto, Hakaru; and Murakami, Yuetsu, to Foundation: The Research Institute of Electric and Magnetic Alloys, The. Wear-resistant alloy of high permeability and method of producing the same. 4,710,243, 12-1-87, Cl. 148-312.000.

Masumoto, Hisayuki, to Minolta Camera Kabushiki Kaisha. Compact zoom lens system of a relatively high zoom ratio capable of providing a wide field angle. 4,634,236, 1-6-87, Cl. 350-427.000.

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Masumoto, Hisayuki, to Minolta Camera Kabushiki Kaisha. Variable focal length lens system. 4,701,033, 10-20-87, Cl. 350-425.000.

Masumoto, Isamu: *See*—
Umemura, Toshikazu; Masumoto, Isamu; and Iha, Yukihiro, 4,681,927, Cl. 528-232.000.

Masumoto, Mituhiko; Yanada, Shigeo; and Kinugawa, Tadami, to Mitsubishi Gas Chemical Company, Inc. Copolycarbonate resin from branched chain alkylene bis phenol. 4,695,620, 9-22-87, Cl. 528-204.000.

Masumoto, Rodney T., to TRW Inc. Look-ahead rounding circuit. 4,648,058, 3-3-87, Cl. 364-745.000.

Masumoto, Rodney T., to TRW Inc. Pyramid carry adder circuit. 4,660,165, 4-21-87, Cl. 364-787.000.

Masumoto, Shozo: *See*—
Uchida, Katsuhiro; Masumoto, Shozo; Tohno, Masao; Mimura, Mitsuo; Okumura, Makoto; Ichikawa, Kiyonoshin; and Matsumura, Misako, 4,699,925, Cl. 514-559.000.

Masumoto, Tsuyoshi; Inoue, Akihisa; and Tomioka, Hiroyuki, to Masumoto, Tsuyoshi; and Unitika Ltd. Nickel alloy. 4,642,145, 2-10-87, Cl. 148-336.000.

Masumoto, Tsuyoshi; Inoue, Akihisa; Oka, Tetsuo; Ishii, Masami; Motoyama, Hiroshi; and Yabuno, Ryohei, to Aisin Seiki Kabushiki Kaisha. Level gauge for liquid helium. 4,655,079, 4-7-87, Cl. 73-295.000.

Masumoto, Tsuyoshi; Inoue, Akihisa; and Tomioka, Hiroyuki, to Tsuyoshi Masumoto; and Unitika Ltd. Ni-Cr type alloy material. 4,655,857, 4-7-87, Cl. 148-423.000.

Masumoto, Tsuyoshi: *See*—
Kimura, Hiroshi; and Masumoto, Tsuyoshi, 4,704,169, Cl. 148-403.000.
Nakanouchi, Yukio; Ohnuma, Shigehiro; and Masumoto, Tsuyoshi, 4,688,130, Cl. 360-135.000.
Watarai, Hisao; Tanaka, Masahiro; Masuda, Shuji; Suzuki, Kenji; and Masumoto, Tsuyoshi, 4,636,806, Cl. 346-1.100.

Masumoto, Yuji: *See*—
Furukawa, Hiromu; Masumoto, Yuji; and Saito, Shinobu, 4,668,105, Cl. 384-99.000.

Masumura, Masanori: *See*—
Imaizumi, Masahiro; Masumura, Masanori; Ishikawa, Takeshi; and Hosoya, Eiji, 4,635,506, Cl. 74-745.000.
Imaizumi, Masahiro; Masumura, Masanori; Ishikawa, Takeshi; and Hosoya, Eiji, 4,655,309, Cl. 180-215.000.
Muto, Osamu; Masumura, Masanori; and Hori, Yoshiaki, 4,713,979, Cl. 74-337.500.

Masunaga, Hidehiko: *See*—
Tada, Hiroshi; Kido, Masanari; Masunaga, Hidehiko; Iwamoto, Toshiaki; Ishimoto, Tuneyoshi; and Matsui, M., 4,666,782, Cl. 428-423.900.

Masunaga, Hikotaro: *See*—
Suzuki, Hirokazu; Akiyama, Takehiro; Morita, Teruo; Takeda, Hirofumi; and Masunaga, Hikotaro, 4,645,958, Cl. 307-597.000.

Masunaga, Makoto; and Tezuka, Nobuo, to Canon Kabushiki Kaisha. Image pick-up device for use with an illuminating device. 4,635,123, 1-6-87, Cl. 358-213.000.

Masunaga, Makoto; Muramoto, Tomotaka; and Nagasawa, Kenichi, to Canon Kabushiki Kaisha. Color image pickup device. 4,679,066, 7-7-87, Cl. 358-29.000.

Masuo, Yoshihisa: *See*—
Ikeda, Toshio; Sakamoto, Tamaki; and Masuo, Yoshihisa, 4,634,292, Cl. 374-109.000.

Masuoka, Fujio; and Ochii, Kiyofumi, to Kabushiki Kaisha Toshiba. Semiconductor memory device comprising six-transistor memory cells. 4,710,897, 12-1-87, Cl. 365-182.000.

Masuoka, Fujio: *See*—
Iwahashi, Hiroshi; and Masuoka, Fujio, 4,635,232, Cl. 365-200.000.
Iwase, Taira; Ariizumi, Shoji; and Masuoka, Fujio, 4,649,412, Cl. 357-41.000.
Nakagawa, Kaoru; Ogura, Mitsugi; Natori, Kenji; and Masuoka, Fujio, 4,706,249, Cl. 371-38.000.
Ogura, Mitsugi; and Masuoka, Fujio, 4,688,064, Cl. 357-23.600.
Yasuda, Hiroshi; Ochii, Kiyofumi; and Masuoka, Fujio, 4,687,954, Cl. 307-279.000.

Masuoka, Norio; and Yasunobu, Nakayama, to Kabushiki Kaisha Toshiba. Printed-circuit board with protection against static discharge damage. 4,667,266, 5-19-87, Cl. 361-212.000.

Masur, Henry: *See*—
Allegra, Carmen; Drake, James C.; Chabner, Bruce A.; Masur, Henry; and Kovacs, Joseph A., 4,694,007, Cl. 514-260.000.

Masuri, Antonio. Apparatus for opening signatures to be supplied to binding machines. 4,679,783, 7-14-87, Cl. 270-54.000.

Masutomi, Susumu: *See*—
Inagaki, Takafumi; Sasaoka, Hiroshi; Masutomi, Susumu; Itoh, Hiroshi; and Takada, Mitsuru, 4,698,764, Cl. 364-424.100.
Itoh, Hiroshi; Takada, Mitsuru; Sasaoka, Hiroshi; Inagaki, Takahumi; and Masutomi, Susumu, 4,689,745, Cl. 364-424.100.

Masuyama, Kenichi: *See*—
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Yamaguchi, Nobutaka; Iida, Shinobu; Nasu, Norio; Ryoke, Katsumi; Okutu, Toshimitu; and Masuyama, Kenichi, 4,647,501, Cl. 428-323.000.

Masuyama, Shigeru: *See*—
Hasegawa, Toshiharu; Shen, Zai-ming; Muro, Shoujiro; Masuyama, Shigeru; and Toyooka, Akihisa, 4,709,364, Cl. 370-85.000.

Masuyama, Takayuki: *See*—
Iwao, Nomura; Masuyama, Takayuki; Tanigawa, Yasuo; and Hasimoto, Hirofumi, 4,702,666, Cl. 414-730.000.
Nomura, Iwao; Masuyama, Takayuki; Tanigawa, Yasuo; and Hasimoto, Hirofumi, 4,636,136, Cl. 414-730.000.

Masuyama, Tsutomu: *See*—
Uchimura, Mitsuo; and Masuyama, Tsutomu, 4,660,667, Cl. 177-164.000.
Uchimura, Mitsuo; and Masuyama, Tsutomu, 4,690,230, Cl. 177-229.000.
Uchimura, Mitsuo; and Masuyama, Tsutomu, 4,693,330, Cl. 177-25.000.

Masuzaki, Hidefumi; and Horikawa, Etsuo, to Hitachi, Ltd. Image data processing system. 4,692,944, 9-8-87, Cl. 382-41.000.

Masuzawa, Sigeaki; Yoshida, Hideo; and Saiji, Mituhiro, to Sharp Kabushiki Kaisha. Speech synthesizer with variable speed of speech. 4,700,393, 10-13-87, Cl. 381-51.000.

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Masuzawa, Sigeaki: *See*—
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Tanimoto, Akira; and Masuzawa, Sigeaki, 4,658,374, Cl. 364-900.000.

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Lucas, Jacques; Matecki, Marc; Poulain, Michel; and Poulain, Marcel, 4,647,545, Cl. 501-30.000.
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Izzi, Anthony J., 4,696,329, Cl. 141-1.000.
Mateika, Werner D.; Laurien, Rolf; and Liehr, Manfred R., to U.S. Philips Corporation. Cold crucible for melting and crystallizing non-metallic inorganic compounds. 4,687,646, 8-18-87, Cl. 422-248.000.
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Orban, Ralph F., 4,634,805, Cl. 174-128.00R.
Orban, Ralph F., 4,643,918, Cl. 427-304.000.
Orban, Ralph F., 4,645,573, Cl. 204-14.100.
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Materials Development Corporation: *See*—
Johnson, Philip C., 4,692,385, Cl. 428-469.000.
Materials Research, Inc.: *See*—
Natesh, Ram, 4,660,859, Cl. 283-70.000.
Materials Technology Corporation: *See*—
Cochran, Joe K., Jr., 4,671,994, Cl. 428-325.000.
Matern, Klaus: *See*—
Hartmann, Franz; and Matern, Klaus, 4,706,336, Cl. 17-55.000.
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Matesa, Joseph M.; Krushinski, Bert K.; and Knickerbocker, Arthur C., to PPG Industries, Inc. Heating vessel lid construction for a glass melting furnace. 4,704,155, 11-3-87, Cl. 65-347.000.
Matesa, Joseph M.: *See*—
Kunkle, Gerald E.; and Matesa, Joseph M., 4,654,068, Cl. 65-135.000.
Schwenninger, Ronald L.; and Matesa, Joseph M., 4,704,153, Cl. 65-134.000.
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Tessaro, Mario, 4,659,103, Cl. 280-615.000.
Matex Co., Ltd.: *See*—
Matoba, Hideyasu, 4,674,360, Cl. 74-750.00R.
Matex Gear and Pump: *See*—
Matoba, Nobuhito, 4,664,580, Cl. 414-228.000.
Mathad, Gangadhara S.: *See*—
Chen, Lee; and Mathad, Gangadhara S., 4,671,849, Cl. 156-643.000.
Mathais, Henri: *See*—
Bertocchio, Rene; Gagnieur, Andre; and Mathais, Henri, 4,647,391, Cl. 252-69.000.
Cheminal, Bernard; Mathais, Henri; and Thomarat, Marc, 4,642,386, Cl. 568-405.000.
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Cheminal, Bernard; Mathais, Henri; and Thomarat, Marc, 4,647,706, Cl. 568-842.000.
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Kervennal, Jacques; Mathais, Henri; and Commandeur, Raymond, 4,650,899, Cl. 560-359.000.
Mathauser, William R. Hydraulic brake actuating device for bicycles. 4,665,803, 5-19-87, Cl. 92-99.000.
Matheisen, Hans W. Physical training apparatus. 4,669,724, 6-2-87, Cl. 272-145.000.
Matheny, Rodney C.: *See*—
Turcott, James L.; and Matheny, Rodney C., 4,637,539, Cl. 227-156.000.
Mather Company, The: *See*—
Hatch, Frederick R., 4,664,392, Cl. 277-152.000.
Mather, Douglas E.: *See*—
Messenger, Edward T.; Mather, Douglas E.; and Phillips, Brinley M., 4,692,271, Cl. 252-354.000.
Mather, Graham W.; Warwick, Graham R.; and Bazeley, Graham A., to Fisherwell Limited. Folding golf cart. 4,714,268, 12-22-87, Cl. 280-646.000.
Mather, Larry R.: *See*—
Dispoto, Gary J.; Mather, Larry R.; and Meyer, John D., 4,680,645, Cl. 358-298.000.
Mather, Thomas N.; Ribeiro, Jose-Marcos C.; and Spielman, Andrew. Method and apparatus for administering acaricides and insecticides to ectoparasites of rodents. 4,662,104, 5-5-87, Cl. 43-132.100.
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Mathers, Robert S. Roller curtain for truck bodies. 4,669,775, 6-2-87, Cl. 296-141.000.
Mathes, Arnold; and Hite, Lester C., to Vermeer Manufacturing Co. Machine for wrapping rolled bales with a plastic sheet. 4,662,151, 5-5-87, Cl. 53-587.000.
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Streuff, Bernhard; Mathes, Detlef; Schade, Bernd; and Schorsch, Ulrich, 4,675,182, Cl. 424-80.000.
Mathes, Gene R.; and Protheroe, Robert L., to NCR Corporation. Data compression method and apparatus. 4,682,150, 7-21-87, Cl. 340-347.0DD.
Mathes, Gene R.: *See*—
Amacher, Gene L.; Mathes, Gene R.; and Paugstat, John F., 4,660,663, Cl. 177-50.000.
Amacher, Gene L.; Mathes, Gene R.; Paugstat, John F.; and Mergenthaler, Barry M., 4,715,457, Cl. 177-1.000.
Amacher, Gene L.; Mathes, Gene R.; Paugstat, John F.; and Mergenthaler, Barry M., 4,716,281, Cl. 235-383.000.
Kelch, Russell K.; Finfrock, Don C.; Girard, Donald J.; Seevers, Daniel B.; Briggs, Barry D.; and Mathes, Gene R., 4,683,531, Cl. 364-200.000.
Mathes, Gunther, to Etablissement Sinoval. Slide gage. 4,644,660, 2-24-87, Cl. 33-143.00M.
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Abendroth, Paul; Holl, Roland; Mathes, Josef; and Dettinger, Dietrich, 4,664,032, Cl. 101-230.000.
Emrich, Helmut; Mathes, Josef; Ochs, Heinrich; and Despot, Janko, 4,711,173, Cl. 101-349.000.
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Matheson, Ronald R.; Hucul, Daniel E.; Burkhardt, James; and Schepke, Joseph W., to Auto/Con Corp. Variable compliance device. 4,669,192, 6-2-87, Cl. 33-169.00C.
Mathevon, Paul: *See*—
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Vere, Bernard; and Mathevon, Paul, 4,646,431, Cl. 29-723.000.
Vere, Bernard; and Mathevon, Paul, 4,680,443, Cl. 219-121.0ED.
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Mathew, Chempolil T.; and Ulmer, Harry E., to Allied Corporation. Preparation of alcoholic hydroxylamine solution from hydroxylammonium sulfate. 4,707,294, 11-17-87, Cl. 252-182.000.
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Malladi, Devi P.; Mathew, Ranjan; and Shah, Divyesh P., 4,714,517, Cl. 156-629.000.
Mathewes, James K., Jr.; Eifrig, C. W. Gustav; Herman, Jan S.; Howes, H. Frank; and Schulz, Charles O., to Raytheon Company. LSI fault insertion. 4,669,081, 5-26-87, Cl. 371-3.000.
Mathews, Charles L.: *See*—
Blanyer, Richard J.; and Mathews, Charles L., 4,658,623, Cl. 72-268.000.
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Mathews, J. F., III. Construction utilizing a passive air system for the heating and cooling of a building structure. 4,677,903, 7-7-87, Cl. 98-31.000.
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Quilling, Marlys M.; Edwards, Sherrie M.; and Mathews, Jeanette M., 4,660,226, Cl. 2-49.00R.
Mathews, Jimmie C., Sr. Riveting apparatus. 4,637,114, 1-20-87, Cl. 29-243.540.
Mathews, Larry A.: *See*—
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Mathews, Lester R.; and Work, John A. Dry well filtration system. 4,689,145, 8-25-87, Cl. 210-170.000.
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Mathews, Marion J., III: *See*—
Hovey, Leonard L.; Mathews, Marion J., III; and Peoples, P. Robert, 4,639,539, Cl. 558-363.000.
Mathews, Michael F.: *See*—
Prill, Leonard; and Mathews, Michael F., 4,633,853, Cl. 126-262.000.
Mathews, Peter: *See*—
Lindbloom, Bruce J.; Mathews, Peter; and Yam, David S., 4,674,058, Cl. 364-518.000.
Mathews, Roger A.; and Cannell, David W., to Redken Laboratories, Inc. Method for evaluating efficacy of a hair styling product. 4,635,654, 1-13-87, Cl. 132-7.000.
Mathews, Will W., to Cummins Engine Company, Inc. Method of remanufacturing a rock drill bit. 4,694,551, 9-22-87, Cl. 29-402.080.
Mathews, Will W.: *See*—
Loukanis, Jesse J.; Mathews, Will W.; and Tune, Raymond L., 4,711,143, Cl. 76-108.00A.

Mathey, Christoph: *See*—
Fischer, Nikolaus H. J.; Mathey, Christoph; and Schoffl, Rainer, 4,681,017, Cl. 89-29.000.
Kurth, Josef; Mathey, Christoph; and Wissinger, Waldemar, 4,646,618, Cl. 89-1.816.

Mathia, Thomas: *See*—
Longeray, Remi; Lanteri, Pierre; Mathia, Thomas; Jodelet, Francois; and Segura, Serge, 4,705,815, Cl. 521-160.000.

Mathias, Anthony D., to Dunlop Olympic Limited. Transport and guide for sewing limp fabric. 4,686,916, 8-18-87, Cl. 112-121.120.

Mathias, Anthony D., to Dunlop Olympic Limited. Method and apparatus of separating and transporting fabric pieces. 4,712,782, 12-15-87, Cl. 271-21.000.

Mathias, John F. Cord tuning mechanism for guitar. 4,674,388, 6-23-87, Cl. 84-312.00P.

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Mathias, Lon J., to University of Southern Mississippi, The. New monomer and polymers containing 4-aminopyridine. 4,661,598, 4-28-87, Cl. 546-304.000.

Mathie, Gerald W., to Valeron Corporation, The. Tool changer mechanism for machining centers. 4,654,955, 4-7-87, Cl. 29-568.000.

Mathieu, Andre, to Dorfin Paper Products (Quebec) Limited. Shipping box for clothing with article positioning means. 4,693,367, 9-15-87, Cl. 206-289.000.

Mathieu, Bernd: *See*—
Polaschegg, Hans-Dietrich; and Mathieu, Bernd, 4,702,829, Cl. 210-195.200.

Mathieu, Janny: *See*—
Causse D'Agraives, Bertrand; Mathieu, Janny; and Jamar, Patrick, 4,677,435, Cl. 340-825.310.

Mathieu, Pierre: *See*—
Banon, Louis; Lajoie-Mazenc, Michel; and Mathieu, Pierre, 4,709,179, Cl. 310-156.000.

Mathiprakasam, Balakrishnan, to Midwest Research Institute. Method of obtaining optimum performance from a thermoelectric heating-/cooling device. 4,634,803, 1-6-87, Cl. 136-212.000.

Mathis, Chester A.: *See*—
Sargent, Thornton W., III; Shulgin, Alexander T.; and Mathis, Chester A., 4,647,446, Cl. 424-1.100.

Mathis, Henry L., to Leupold & Stevens, Inc. Shaft position encoder apparatus with logic and decoder. 4,646,085, 2-24-87, Cl. 340-870.190.

Mathis, Joseph D., to AT&T Information Systems Inc. Antenna support. 4,646,101, 2-24-87, Cl. 343-878.000.

Mathis, Joseph R.: *See*—
Blevins, Ballard J.; Kulpa, William G.; Mathis, Joseph R.; and McCullough, John W., 4,695,948, Cl. 364-200.000.

Mathis, Leon H. Locking hitch assembly. 4,650,206, 3-17-87, Cl. 280-456.00A.

Mathis, Ronald F., to General Dynamics Electronics Division. RF frequency spectrum analyzer subsystem. 4,695,790, 9-22-87, Cl. 324-77.00K.

Mathis, Terry D.: *See*—
Aberson, James A., Jr.; DeVeau, George F., Jr.; Mathis, Terry D.; and Miller, Calvin M., 4,691,986, Cl. 350-96.210.

Mathis, Thomas C.: *See*—
Birum, Gail H.; Mathis, Thomas C.; and Stolk, Richard D., 4,639,480, Cl. 524-104.000.

Mathis, Walter. Method and apparatus for hot foil embossing a workpiece. 4,658,721, 4-21-87, Cl. 101-9.000.

Mathison, Allen D., to Cherne Industries, Inc. Electronic test and seal apparatus and method. 4,691,728, 9-8-87, Cl. 137-15.000.

Mathison, John W. Basketball training device. 4,697,810, 10-6-87, Cl. 273-1.50A.

Mathonnet, Jean-Marc: *See*—
Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacquot, Claude; Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Jean-Claude; Sermet, Pierre; Zadworny, Francois; and Bourg, Francois, 4,638,216, Cl. 315-111.810.

Mathukura, Masayuki: *See*—
Minami, Norio; Mathukura, Masayuki; Ueda, Koichiro; Tanaka, Satoru; and Igarashi, Toshiji, 4,650,798, Cl. 514-227.000.

Mathuno, Shigeki: *See*—
Endo, Hiroshi; Arai, Masakazu; Nishikawa, Shigeo; Saito, Masanori; Tanaka, Masahiro; Nagasaki, Kunikazu; and Mathuno, Shigeki, 4,698,191, Cl. 264-50.000.

Mathuny, Aniko: *See*—
Tyihak, Erno; Mincsovics, Emil; Zoltan, Sandor; Kemeny, Gabor; Mathuny, Aniko; Szekely, Tibor; Nemeth, Sandor; Antal, Zsuzsanna; and Fater, Zsuzsanna, 4,658,000, Cl. 526-217.000.

Mathur, Indresh; and Gopal, Ram, to Dow Chemical Company, The. Low over-voltage electrodes for alkaline electrolytes. 4,670,122, 6-2-87, Cl. 204-252.000.

Mathur, Vishnu; and Garcia, Socorro, to Tandem Computers Inc. Method for forming vertical interconnects in polyimide insulating layers. 4,661,204, 4-28-87, Cl. 156-656.000.

Mathura, Hiroyuki: *See*—
Harada, Yoshiaki; Okino, Teizou; Mathura, Hiroyuki; Doi, Yasuhumi; and Yamasaki, Kenichi, 4,654,149, Cl. 210-763.000.

Mathus, Gregory; Lyman, George; and Looney, Kevin, to Costar Corporation. Small volume laboratory filter. 4,690,757, 9-1-87, Cl. 210-232.000.

Mathus, Gregory: *See*—
Lyman, George F.; and Mathus, Gregory, 4,683,058, Cl. 210-359.000.

Mathys, Robert, to Robert Mathys Co. Hip joint socket. 4,685,923, 8-11-87, Cl. 623-22.000.

Matias, Jonathan R.: *See*—
Orentreich, Norman; and Matias, Jonathan R., 4,684,635, Cl. 514-170.000.

Matick, Richard E.; Ling, Daniel T.; and Dill, Frederick H., to International Business Machines Corp. Display architecture having variable data width. 4,663,729, 5-5-87, Cl. 364-900.000.

Matick, Richard E.: *See*—
Chung, Paul W.; Matick, Richard E.; and Ling, Daniel T., 4,649,516, Cl. 364-900.000.
Dill, Frederick H.; Ling, Daniel T.; Matick, Richard E.; and McBride, Dennis J., 4,667,305, Cl. 364-900.000.

Matier, Colleen A.: *See*—
Schelhorn, Robert L.; and Matier, Colleen A., 4,647,900, Cl. 338-314.000.

Matier, William L.: *See*—
Erhardt, Paul W.; and Matier, William L., 4,692,446, Cl. 514-234.000.
Stout, David M.; and Matier, William L., 4,666,924, Cl. 514-343.000.

Matiere, Marcel. Modular construction system for a covered structure. 4,685,829, 8-11-87, Cl. 405-124.000.

Matiere, Marcel. Method of producing hollow structures and hollow structures. 4,693,635, 9-15-87, Cl. 405-132.000.

Matievic, Miroslav, to Emhart Industries, Inc. Multi-signal alarm. 4,697,932, 10-6-87, Cl. 368-255.000.

Matievich, Michael. Firearm with reversible barrel. 4,674,217, 6-23-87, Cl. 42-76.010.

Matifas, Rene, to Societe Nationale Industrielle et Aerospatiale. Machining device provided with a blank-press connected to the tool and blank-press for such a device. 4,647,004, 2-10-87, Cl. 409-136.000.

Matijevic, Egon; and Gherardi, Paola, to Montedison S.p.A. Spherical particles of titanium dioxide coated with a uniform layer of iron oxides having a narrow size distribution, and process for preparing the same. 4,675,251, 6-23-87, Cl. 428-404.000.

Matin, Barry D.: *See*—
Trepus, George E., Jr.; Matin, Barry D.; and Rider, Preston L., 4,707,206, Cl. 156-187.000.

Matix Industries: *See*—
Prasil, Bernard; and Turbe, Jean-Pierre, 4,700,564, Cl. 73-146.000.
Turbe, Jean-Pierre, 4,662,224, Cl. 73-636.000.
Turbe, Jean-Pierre, 4,700,574, Cl. 73-636.000.

Matkan, Josef; and Treleaven, Richard J., to Minnesota Mining and Manufacturing Company. Pressure-fixable toner material and method of making same. 4,636,451, 1-13-87, Cl. 430-109.000.

Matkan, Josef; and Treleaven, Richard J., to Minnesota Mining and Manufacturing Company. Particles containing releasable fill material and method of making same. 4,681,806, 7-21-87, Cl. 428-402.210.

Matkovich, Vlado I.; and Rosenberg, David J., to Pall Corporation. Cardiotomy reservoir. 4,662,906, 5-5-87, Cl. 55-159.000.

Matlach, William J., to Petrolite Corporation. Particulate compositions used in petroleum systems comprising encapsulated materials. 4,659,334, 4-21-87, Cl. 44-51.000.

Matlack, Albert S., to Hercules Incorporated. Metathesis polymerization of thermally oligomerized dicyclopentadiene. 4,703,098, 10-27-87, Cl. 526-283.000.

Matlin, Joel: *See*—
Katsof, Barry; Waxman, Ronald G.; and Matlin, Joel, 4,700,295, Cl. 364-401.000.

Matlock, Dyer A.; Lichtel, Richard L., Jr.; and Pearce, Lawrence G., to Harris Corporation. Technique for elimination of polysilicon stringers in direct moat field oxide structure. 4,702,000, 10-27-87, Cl. 437-63.000.

Matlock, Dyer A.: *See*—
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Roberts, Bruce E.; Black, Jimmy C.; and Matlock, Dyer A., 4,716,071, Cl. 428-209.000.

Matlock, Gordon E. Wood cross-tie end plating machine. 4,657,168, 4-14-87, Cl. 227-152.000.

Matney, Earl G., to Tektronix, Inc. Measurement of SC/H phase using a polar display. 4,694,324, 9-15-87, Cl. 358-10.000.

MATO Maschinen- und Metallwarenfabrik Curt Matthaei GmbH & Co Kg: *See*—
Stolz, Hermann; and Herold, Wolfgang, 4,653,156, Cl. 24-33.00R.

MATO Maschinen- und Metallwarenfabrik Curt Matthaei GmbH & Co. KG.: *See*—
Stolz, Hermann, 4,681,359, Cl. 294-81.210.

MATO Maschinen- und Metallwarenfabrik Kurt Matthaei GmbH & Co. KG.: *See*—
Stolz, Hermann, 4,676,409, Cl. 222-256.000.

Matobe Hideyasu, to Matex Co., Ltd. Planetary transmission with axial thrust protection means. 4,674,360, 6-23-87, Cl. 74-750.00R.

Matoba, Isao: *See*—
Nishiike, Ujihiro; Komatsubara, Michiro; Iida, Yoshiaki; and Matoba, Isao, 4,655,854, Cl. 148-111.000.

Matoba, Nobuhito, to Matex Gear and Pump. Multistory parking garage. 4,664,580, 5-12-87, Cl. 414-228.000.

Matoba, Takashi: *See*—
Sumi, Takao; Matoba, Takashi; Shimamoto, Kouichirou; and Inako, Yoshihide, 4,662,966, Cl. 156-230.000.

Matoba, Yoshiaki; and Ozawa, Hitoshi, to Daikin Industries Ltd. Scroll type fluid apparatus with lubrication of rotation preventing mechanism and thrust bearing. 4,637,786, 1-20-87, Cl. 418-55.000.

Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko ; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, to Magyar Tudomenyos Akademia Novenyvedelmi Kutato Intezete; and Nitrokemia Ipartelepek. β-Cyclodextrine complex of benzene sulphonyl urea derivatives. 4,672,112, 6-9-87, Cl. 536-46.000.

Matolcsy, Gyorgy: *See*—
Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, 4,695,309, Cl. 71-88.000.
Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, 4,695,313, Cl. 71-100.000.

Maton, Michel: *See*—
Bayerlein, Friedrich; Kuhn, Manfred; and Maton, Michel, 4,661,475, Cl. 514-54.000.

Matono, Katsuyoshi: *See*—
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,661,034, Cl. 414-416.000.
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,696,617, Cl. 414-422.000.

Matono, Takaaki; Murata, Toshinori; Kurita, Toshiyuki; and Nakagawa, Isao, to Hitachi, Ltd. Separating circuit of luminance and chrominance signals for TV receiver selecting between three three line comb filters. 4,707,732, 11-17-87, Cl. 358-31.000.

Matono, Takaaki: *See*—
Murata, Toshinori; Nakagaki, Nobufumi; and Matono, Takaaki, 4,677,485, Cl. 358-160.000.

Matosian, Kenneth R.; Sterritt, Lanny W.; Stubbs, David M.; and Lemons, Thomas M., to United States of America, Air Force. Modulated optical energy source. 4,668,869, 5-26-87, Cl. 250-504.00R.

Matouk, Anthony F.; Hoffman, David C.; and Barrus, Donald M., to Modular Power Corporation. Modular electronic power supply. 4,691,274, 9-1-87, Cl. 363-141.000.

Matousek, Bohumir: *See*—
Jelinek, Jan; and Matousek, Bohumir, 4,665,718, Cl. 66-9.00R.

Matovich, Edwin; and Spannuth, Robert J., to Crown Zellerbach Corporation. Pyrolysis of black liquor at high temperatures using radiant energy. 4,637,858, 1-20-87, Cl. 162-30.100.

Matra: *See*—
Boggero, Henri, 4,709,637, Cl. 102-481.000.
Dottau, Pierre O.; and Moal, Herve , 4,710,645, Cl. 307-115.000.
Mace, Guy; Anglard, Andre; and Insa, Andre, 4,685,377, Cl. 89-1.540.

Matrix Instruments Inc.: *See*—
Balasubramanian, N., 4,636,069, Cl. 356-71.000.

Matrix Science Corporation: *See*—
Mattingly, William R.; and Trombly, Barry R., 4,702,537, Cl. 439-152.000.

Mats Lundberg: *See*—
Dziewanowski, Andre , Piotrowski, Krzysztof, and Zaremba, Krzysztof, 4,686,075, Cl. 264-209.200.

Matschinsky, Wolfgang, to Bayerische Motoren Werke Aktiengesellschaft. Wheel suspension for steerable wheels, especially front wheels, of motor vehicles. 4,664,412, 5-12-87, Cl. 280-771.000.

Matschinsky, Wolfgang; Sautter, Wolfgang; Strasser, Ludwig; and Mueller, Rudolf, to Bayerische Motoren Werke Aktiengesellschaft. Rear wheel suspension, especially for driven rear wheels. 4,671,532, 6-9-87, Cl. 280-701.000.

Matschke, Christian, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Chamber for the treatment of cells in an electric field. 4,699,881, 10-13-87, Cl. 435-173.000.

Matsko, Joseph J.; Grunert, Kurt A.; and Terhorst, Bruce R., to Westinghouse Electric Corp. Solenoid operator circuit for molded case circuit breaker. 4,642,726, 2-10-87, Cl. 361-198.000.

Matson, Lawrence W., to Strata Bit Corporation. Threaded nozzle for a drill bit. 4,658,918, 4-21-87, Cl. 175-423.000.

Matson, Les. Tensioning device for flexible drive element. 4,662,862, 5-5-87, Cl. 474-101.000.

Matson, Robert C., to Industrial Clutch Corporation. Clutch/brake apparatus. 4,633,986, 1-6-87, Cl. 192-18.00A.

Matsuba, Kunihiro: *See*—
Kondo, Katsumi; Tsuchiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,681,647, Cl. 156-172.000.
Yamazawa, Yasushi; Kondo, Katsumi; Tsutiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,673,451, Cl. 156-172.000.

Matsubara, Hideo: *See*—
Daido, Toshihiko; Matsubara, Hideo; and Hirakushi, Shuzo, 4,640,380, Cl. 180-141.000.

Matsubara, Hirokazu: *See*—
Maruyama, Eiichi; Fujikura, Makoto; Matsubara, Hirokazu; and Shimada, Toshikazu, 4,672,015, Cl. 430-57.000.

Matsubara, Hironaga: *See*—
Shioya, Jun; Yamaguchi, Yoichi; Ueba, Yoshinobu, and Matsubara, Hironaga, 4,645,713, Cl. 428-457.000.

Matsubara, Izuru, to Eiwa Sangyo Kabushiki Kaisha. Collapsible box including bag and attached lid. 4,657,176, 4-14-87, Cl. 229-41.00R.

Matsubara, Katsumi; Uchida, Riichi; Murumatsu, Masatoshi; Naya, Kotaro; and Takagi, Tsuneharu, to Hitachi, Ltd. Screw type vacuum pump. 4,714,418, 12-22-87, Cl. 418-201.000.

Matsubara, Katsumi: *See*—
Uchida, Riichi; Matsubara, Katsumi; and Tsuru, Seiji, 4,664,601, Cl. 417-27.000.

Matsubara, Mamoru, to Showa Denko Kabushiki Kaisha. Dehydrating and water-retaining sheet. 4,645,698, 2-24-87, Cl. 428-68.000.

Matsubara, Mamoru, to Showa Denko Kabushiki Kaisha. Dehydrating device. 4,686,776, 8-18-87, Cl. 34-95.000.

Matsubara, Masaki, to Olympus Optical Co., Ltd. Optical system for variable inclination angle microscope tubes. 4,643,541, 2-17-87, Cl. 350-522.000.

Matsubara, Nobuyuki: *See*—
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.

Matsubara, Noriyuki: *See*—
Sakamoto, Takahide; Hiroshima, Tatsuo; Matsubara, Noriyuki; and Miyata, Kenichi, 4,641,092, Cl. 324-227.000.

Matsubara, Osamu: *See*—
Suzuki, Toshiro; and Matsubara, Osamu, 4,642,552, Cl. 323-315.000.
Takatori, Hiroshi; Suzuki, Toshiro; Matsubara, Osamu; and Yamada, Izuru, 4,687,998, Cl. 328-58.000.

Matsubara, Saburo; and Yagi, Shinichi, to Nippon Oil Co., Ltd. Method of making ceramic articles. 4,680,154, 7-14-87, Cl. 264-63.000.

Matsubara, Shigeharu: *See*—
Fujii, Masahiro; Kamada, Minoru; and Matsubara, Shigeharu, 4,698,158, Cl. 210-610.000.

Matsubara, Shigeru: *See*—
Iwamoto, Tomiyuki; Hayakawa, Naoki; and Matsubara, Shigeru, 4,657,540, Cl. 604-408.000.

Matsubara, Sumiyuki: *See*—
Okamoto, Tadashi; Matsubara, Sumiyuki; and Handa, Masahisa, 4,684,567, Cl. 428-257.000.

Matsubara, Sunao: *See*—
Muramatsu, Shinichi; Shimada, Toshikazu; Matsubara, Sunao; Itoh, Haruo; and Nakamura, Nobuo, 4,642,412, Cl. 136-244.000.

Matsubara, Susumu: *See*—
Hasegawa, Norio; Fujino, Toyomi; and Matsubara, Susumu, 4,701,900, Cl. 369-36.000.

Matsubara, Tamotsu: *See*—
Wakabayashi, Hiroyuki; and Matsubara, Tamotsu, 4,711,806, Cl. 428-334.000.

Matsubara, Tetsuyuki; Ito, Norifumi; Iwamoto, Mune; and Ando, Toshihiko, to Mitsui Toatsu Chemicals, Inc.; and Toyo Engineering Corporation. Continuous process for the treatment of polymer composition to remove unreacted monomer and solvent. 4,699,976, 10-13-87, Cl. 528-501.000.

Matsubara, Toru. Thread feeding apparatus for sewing machine. 4,649,844, 3-17-87, Cl. 112-302.000.

Matsubara, Toshiaki: *See*—
Suzuki, Yasunaga; Matsubara, Toshiaki; and Uragami, Akira, 4,710,842, Cl. 361-88.000.
Suzuki, Yukio; Masuda, Ikuro; Iwamura, Masahiro; Kadono, Shinji; Uragami, Akira; Yoshimura, Masayoshi; and Matsubara, Toshiaki, 4,689,503, Cl. 307-446.000.

Matsubara, Toshio; Kakumoto, Hideki; and Okazaki, Kazuyuki, to Mazda Motor Corporation. Air pollution preventing device for internal combustion engine. 4,646,702, 3-3-87, Cl. 123-520.000.

Matsubara, Toshiya: *See*—
Morimoto, Takeshi; Matsubara, Toshiya; Hamatani, Yoshiki; Iwano, Naoto; Shimizu, Hideo; Komatsu, Shigeo; and Yamada, Hidemi, 4,689,724, Cl. 361-433.000.

Matsubara, Toshiyuki: *See*—
Ise, Masahiro; Tanaka, Hidehiko; Machino, Katsuyuki; Matsubara, Toshiyuki; and Terasaka, Teiji, 4,675,668, Cl. 340-825.080.

Matsubara, Yasuko: *See*—
Fujiwhara, Mitsuto; Nimura, Takao; Numata, Yasumasa; and Matsubara, Yasuko, 4,690,888, Cl. 430-549.000.
Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji, Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.

Matsubara, Yoshiaki; and Tsuru, Masato, to Fujitsu Limited. Input/output interrupt system. 4,644,462, 2-17-87, Cl. 364-200.000.

Matsubayashi, Hiroshi; Hirota, Kazumi; Iwamoto, Hisao; Fujiwara, Tamio; Sato, Nobuyuki; and Katsura, Tadahiko, to Toyo Seikan Kaisha, Ltd. Packaging material comprising iron foil, and container and container lid composed thereof. 4,686,152, 8-11-87, Cl. 428-607.000.

Matsubayashi, Kaneo, to Toyo Suisan Kikai Co. Ltd.; and Taiyo Fishery Co. Ltd. Apparatus for collecting flesh of fish. 4,637,094, 1-20-87, Cl. 17-1.00G.

Matsubayashi, Nobuaki: *See*—
Takeda, Makoto; Yamamoto, Kunihiko; Matsubayashi, Nobuaki; and Take, Hiroshi, 4,694,349, Cl. 358-241.000.

Matsubayashi, Nobuhide; and Kato, Kiichi, to Olympus Optical Co., Ltd. Photomagnetic differential reproducing system. 4,682,311, 7-21-87, Cl. 369-13.000.

Matsubayashi, Satoshi: *See*—
Komaki, Akio; Hayakawa, Takumi; Yoneda, Tadashi; Miura, Asahiko; Wada, Hironao; Matsubayashi, Satoshi; and Takemasa, Arihiko, 4,652,505, Cl. 429-131.000.

Matsubayashi, Takayuki, to Tokyo Shibaura Denki Kabushiki Kaisha. X-ray computerized tomographic apparatus. 4,649,555, 3-10-87, Cl. 378-4.000.

Matsubayashi, Tatsuhiko, to Kioritz Corporation. Air-fuel mixture intake pipe for internal combustion engine. 4,712,523, 12-15-87. Cl. 123-188.00M.

Matsubayashi, Tooru; and Yamashiro, Seiichi, to Teijin Limited. Production of thin-walled cylindrical body of aromatic polyester. 4,659,534, 4-21-87, Cl. 264-566.000.

Matsuda, Akira: *See*—
Yonekura, Katsuyoshi; Uchiyama, Akira; and Matsuda, Akira. 4,650,830, Cl. 525-193.000.
Yonekura, Katsuyoshi; Uchiyama, Akira; and Matsuda, Akira. 4,656,098, Cl. 428-517.000.

Matsuda, Atsushi; and Sato, Toshiyuki, to Yamaha Hatsudoki Kabushiki Kaisha. Rear wheel steering device for motorcycles having limiting means. 4,650,021, 3-17-87, Cl. 180-219.000.

Matsuda, Atsushi; and Sato, Toshiyuki, to Yamaha Hatsudoki Kabushiki Kaisha. Rear wheel steering device for motorcycles. 4,650,023, 3-17-87, Cl. 180-219.000.

Matsuda, Atsushi; and Sato, Toshiyuki, to Yamaha Motor Co., Ltd. Rear wheel steering device for motorcycles. 4,650,024, 3-17-87, Cl. 180-219.000.

Matsuda, Atsushi; and Sata, Toshiyuki, to Yamaha Hatsudoki Kabushiki Kaisha. Motorcycle having steered front and rear wheels. 4,651,844, 3-24-87, Cl. 180-219.000.

Matsuda, Atsushi; and Sato, Toshiyuki, to Yamaha Hatsudoki Kabushiki Kaisha. Rear wheel steering device for motorcycles. 4,655,311, 4-7-87, Cl. 180-219.000.

Matsuda, Atsushi; and Sato, Toshiyuki, to Yamaha Hatsudoki Kabushiki Kaisha. Rear wheel steering device for motorcycles. 4,662,469, 5-5-87, Cl. 180-219.000.

Matsuda, Atsushi; and Sato, Toshiyuki, to Yamaha Hatsudoki Kabushiki Kaisha. Motorcycle having steered front and rear wheels with control for ratio. 4,664,214, 5-12-87, Cl. 180-219.000.

Matsuda, Atsushi: *See*—
Sato, Toshiyuki; and Matsuda, Atsushi, 4,650,022, Cl. 180-219.000.

Matsuda, Eiichi, to Fine Foods Research Cooperative Union. Process for treating frozen block meat. 4,714,618, 12-22-87, Cl. 426-524.000.

Matsuda, Eugene S.: *See*—
Regan, A. Michael; and Matsuda, Eugene S., 4,674,920, Cl. 405-227.000.

Matsuda, Fumio: *See*—
Takekawa, Yujiro; and Matsuda, Fumio, 4,691,745, Cl. 139-435.000.

Matsuda, Heiichiro: *See*—
Kojima, Teiryo; Matsuda, Heiichiro; and Tokizane, Masaru, 4,682,465, Cl. 57-247.000.

Matsuda, Hideki: *See*—
Fukuoka, Shinsuke; and Matsuda, Hideki, 4,703,102, Cl. 528-125.000.
Hayakawa, Masatoshi; Aso, Koichi; Ochiai, Yoshitaka; Matsuda, Hideki; Hayashi, Kazuhiko; Ishikawa, Wataru; and Iwasaki, You, 4,707,417, Cl. 428-630.000.
Hayashi, Kazuhiko; Ochiai, Yoshitaka; Hayakawa, Masatoshi; Matsuda, Hideki; Ishikawa, Wataru; Iwasaki, You; and Aso, Koichi, 4,640,871, Cl. 428-611.000.

Matsuda, Hidemi: *See*—
Takenaka, Shigeo; Koike, Norio; Itou, Takeo; and Matsuda, Hidemi, 4,692,659, Cl. 313-402.000.

Matsuda, Hideo; and Hiraoka, Shinitiro, to Sharp Kabushiki Kaisha. Sheet winding and discharging device. 4,634,113, 1-6-87, Cl. 271-259.000.

Matsuda, Hideo: *See*—
Hiraoka, Shinitiro; and Matsuda, Hideo, 4,699,368, Cl. 271-82.000.
Tsunoda, Yoshiaki; and Matsuda, Hideo, 4,695,871, Cl. 357-74.000.

Matsuda, Hiroaki: *See*—
Nakao, Shinroku; Ishii, Yoshiyasu; and Matsuda, Hiroaki, 4,676,466, Cl. 248-166.000.

Matsuda, Hiromichi, to Inoue MTP Kabushiki Kaisha. Method for manufacturing foamed plastics. 4,680,150, 7-14-87, Cl. 264-26.000.

Matsuda, Hiroshi, to Canon Kabushiki Kaisha. Light-emitting display component and method for light-emitting display using the same. 4,647,518, 3-3-87, Cl. 430-21.000.

Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo; Eguchi, Ken; and Nakagiri, Takashi, to Canon Kabushiki Kaisha. Film forming method, recording medium formed thereby and recording method therewith. 4,693,915, 9-15-87, Cl. 427-256.000.

Matsuda, Hiroshi: *See*—
Araki, Tsunehiko; Matsuda, Hiroshi; Kayanoki, Kazuhito; and Nagaoka, Akira, 4,656,462, Cl. 340-556.000.
Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Nishimura, Yukuo; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,147, Cl. 427-54.100.
Eguchi, Ken; Nishimura, Yukuo; Haruta, Masahiro; Matsuda, Hiroshi; Hirai, Yutaka; and Nakagiri, Takashi, 4,705,403, Cl. 356-319.000.
Hirai, Yutaka; Matsuda, Hiroshi; Eguchi, Ken; Haruta, Masahiro; Nishimura, Yukuo; and Nakagiri, Takashi, 4,683,146, Cl. 427-54.100.
Hirai, Yutaka; Haruta, Masahiro; Nishimura, Yukuo; Matsuda, Hiroshi; and Nakagiri, Takashi, 4,695,717, Cl. 250-213.00R.
Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,144, Cl. 427-35.000.
Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,145, Cl. 427-36.000.

Matsuda, Hiroto: *See*—
Ikeda, Masami; Shibata, Makoto; Takahashi, Hiroto; and Matsuda, Hiroto, 4,686,544, Cl. 346-140.00R.
Ikeda, Masami; Matsuda, Hiroto; Takahashi, Hiroto; and Shohji, Tatsumi, 4,694,306, Cl. 346-140.00R.
Matsumoto, Tokio; Aoki, Seiichi; Matsuda, Hiroto; Ikeda, Masami; Matsumoto, Haruyuki; and Saito, Asao, 4,646,105, Cl. 346-1.100.
Sugitani, Hiroshi; Ozawa, Masakazu; Matsuda, Hiroto; Ikeda, Masami; and Matsumoto, Haruyuki, 4,701,766, Cl. 346-1.100.

Matsuda, Hitoshi; Okumura, Tsuguo; and Abe, Kazuharu, to Mitsubishi Monsanto Chemical Company. Biaxially drawn laminated films prepared by sequential stretching. 4,690,792, 9-1-87, Cl. 264-235.800.

Matsuda, Katsumi; and Kono, Kunio, to Mitsubishi Jukogyo Kabushiki Kaisha. Wrapping machine for use in a packaging system. 4,651,501, 3-24-87, Cl. 53-383.000.

Matsuda, Katsumi; and Kono, Kunio, to Mitsubishi Jukogyo Kabushiki Kaisha. High-speed wrapping machine. 4,709,529, 12-1-87, Cl. 53-207.000.

Matsuda, Kazuto: *See*—
Fukamachi, Toshio; Matsuda, Kazuto; Noma, Kouichi; Kawada, Toshiaki; Sakurai, Toshio; and Osawa, Takeshi, 4,643,351, Cl. 236-44.00E.

Matsuda, Keiji: *See*—
Takaya, Takao; Yasuda, Nobuyoshi; Tsutsumi, Hideo; and Matsuda, Keiji, 4,656,160, Cl. 514-41.000.

Matsuda, Keiko: *See*—
Kato, Hideo; Matsushima, Masaaki; Matsuda, Keiko; and Shibata, Hirofumi, 4,677,042, Cl. 430-5.000.

Matsuda, Keizo: *See*—
Shinohara, Emiko; Sugiyama, Katsumi; Ozaki, Masanao; and Matsuda, Keizo, 4,634,790, Cl. 560-40.000.

Matsuda, Kenichi: *See*—
Sato, Yasukazu; Matsuda, Kenichi; Ozaki, Hiromi; Suzuka, Teruo; and Yamane, Mamoru, 4,643,813, Cl. 204-157.730.

Matsuda, Kenji: *See*—
Umemura, Hiroyuki; Matsuda, Kenji; Tezuka, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Matsuoka, Fumio; and Iijima, Hitoshi, 4,709,554, Cl. 62-156.000.
Umemura, Hiroyuki; Matsuda, Kenji; Tezuda, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Sugawara, Sakuo; and Hara, Masanori, 4,715,191, Cl. 62-208.000.
Yazawa, Akira; Itagaki, Kimio; Sezaki, Kazuo; Matsuda, Kenji; Kanazawa, Kazuo; Hayashi, Mitsuo; and Katada, Katsuo, 4,657,585, Cl. 75-63.000.

Matsuda, Kihachiro: *See*—
Shiozawa, Hisao; and Matsuda, Kihachiro, 4,650,658, Cl. 423-462.000.

Matsuda, Kiichi; Tsuda, Toshitaka; Homma, Toshihiro; Fukuda, Hiroshi; Okazaki, Takeshi; and Maki, Shin-ichi, to Fujitsu Limited. Apparatus for band compression processing of a picture signal. 4,668,987, 5-26-87, Cl. 358-136.000.

Matsuda, Kiichi: *See*—
Kuroda, Hideo; Mukawa, Naoki; Hiraoka, Makoto; Matsuda, Kiichi; Nishiwaki, Mitsuo; and Tsugane, Shuzo, 4,677,480, Cl. 358-136.000.

Matsuda, Kimikazu, to Maruzen Sewing Machine Co., Ltd. Assembl construction for sewing machine. 4,651,661, 3-24-87, Cl. 112-254.000

Matsuda, Kimikazu: *See*—
Mikuni, Yoshio; Tanaka, Osamu; and Matsuda, Kimikazu 4,688,501, Cl. 112-241.000.

Matsuda, Kiyoshi; and Mizutani, Minoru, to Oki Electric Industry Co Ltd. Planetary gear mechanism. 4,669,333, 6-2-87, Cl. 74-810.000.

Matsuda, Kiyoshi: *See*—
Okamura, Masayoshi; Matsuda, Kiyoshi; Yamada, Hiromich Umeda, Hiromi; and Tomimoto, Masami 4,673,655, C 436-75.000.

Matsuda, Koichi; Kondo, Nobuaki; and Tanaka, Yuji, to Nissan Moto Co., Ltd.; and Ikeda Bussan Co., Ltd. Lock mechanism for adjustab seat. 4,635,890, 1-13-87, Cl. 248-429.000.

Matsuda, Koichi: *See*—
Kumamoto, Kenichiro; Sato, Akira; Ohya, Koichi; and Matsud Koichi, 4,691,378, Cl. 455-301.000.

Matsuda, Kumehiko; and Komai, Kensaku, to Sharp Kabushiki Kaish Electronic cash register having direct price look-up functio 4,638,435, 1-20-87, Cl. 364-405.000.

Matsuda, Kumehiko; and Komai, Kensaku, to Sharp Kabushiki Kaish Automatic registration in an electronic cash register. 4,691,2 9-1-87, Cl. 364-405.000.

Matsuda, Masako. Emergency evacuation apparatus. 4,650,036, 3-17- Cl. 187-27.000.

Matsuda, Masami; Aoyama, Yoshiyuki; Kawamura, Fumio; Yu Hideo; Kikuchi, Makoto; Tamata, Shin; and Horiuchi, Susumu, Hitachi, Ltd. Method for processing radioactive waste re 4,654,172, 3-31-87, Cl. 252-629.000.

Matsuda, Masami: *See*—
Kawamura, Fumio; Matsuda, Masami; Aoyama, Yoshiyuki; Chi Koichi; and Mizumoto, Mamoru, 4,636,335, Cl. 252-629.000.

Matsuda, Minoru; and Muraishi, Tadashi, to Honda Giken Ko Kabushiki Kaisha. Clutch system having means for converting tr mitted torque into frictional force. 4,645,049, 2-24-87, Cl. 192-35.0

Matsuda, Minoru; and Shinozaki, Takashi, to Honda Giken Ko Kabushiki Kaisha. Power train for front and rear wheel drive vehi 4,666,015, 5-19-87, Cl. 180-233.000.

Matsuda, Mitsunobu: *See*—
Tomita, Yukio; Wakabayashi, Takayuki; Matsuda, Mitsunobu; Shibamoto, Nobuji; and Yamashiro, Yoshihiro, 4,645,065, Cl. 198-573.000.

Matsuda, Naoki: *See*—
Katsuragi, Yasuhiro; Matsuda, Naoki; Saiga, Yoshiko; Kobayashi, Yasunobu; Nakamura, Masakazu; and Satoh, Toshio, 4,686,206, Cl. 514-27.000.

Matsuda, Noriaki; and Shinkai, Etsuro, to Toa Medical Electronics Co., Ltd. Method for preparing cells for blood analysis. 4,656,139, 4-7-87, Cl. 436-17.000.

Matsuda, Osamu; and Sasajima, Isao, to Akebono Brake Industry Co. Ltd. High frequency induction heating device for brake shoe lining. 4,668,850, 5-26-87, Cl. 219-10.570.

Matsuda, Osamu; and Danno, Sadaji, to Ajinomoto General Foods, Inc. Process for producing coffee extract. 4,672,580, 6-16-87, Cl. 426-385.000.

Matsuda, Saburo: *See*—
Samejima, Masayoshi; Matsuda, Saburo; Wakabayashi, Toshio; and Hayakawa, Naoki, 4,670,261, Cl. 424-127.000.

Matsuda, Sadamu: *See*—
Sakai, Kunito; Matsuda, Sadamu; and Takahama, Takashi, 4,697,203, Cl. 357-72.000.

Matsuda, Sakurako: *See*—
Nikaido, Masataka; and Matsuda, Sakurako, 4,681,007, Cl. 84-1.100.

Matsuda, Shigeki, to Nippondenso Co., Ltd. Method of forming a chemical phosphate coating on the surface of steel. 4,657,600, 4-14-87, Cl. 148-6.15R.

Matsuda, Shigeyoshi: *See*—
Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, 4,709,899, Cl. 249-20.000.

Matsuda, Shimpei: *See*—
Okada, Hideo; Takeuchi, Masato; Okabe, Sigeru; Tobita, Hiroshi; Matsuda, Shimpei; Tamura, Kohki; and Nakajima, Fumito, 4,656,735, Cl. 29-623.100.

Matsuda, Shin-ichi: *See*—
Shirasaki, Shin-ichi; Hotta, Yasunari; Yamamura, Hiroshi; Matsuda, Shin-ichi; Kakegawa, Kazuyuki; Moriyoshi, Yusuke; Takahashi, Koichiro; and Haneda, Hajime, 4,696,810, Cl. 423-593.000.

Matsuda, Shinichi; and Seki, Kazuhisa, to Fuji Photo Optical Co., Ltd. Mechanism for lifting and lowering magnetic head in magnetic recording and reproducing device. 4,642,717, 2-10-87, Cl. 360-105.000.

Matsuda, Shinichi. Method and apparatus for cleaning of pipes. 4,661,848, 4-28-87, Cl. 358-100.000.

Matsuda, Shinichi. Apparatus for construction of continuous article having bores. 4,674,913, 6-23-87, Cl. 405-146.000.

Matsuda, Shinichi; and Oosaka, Shigenori, to Fuji Photo Film Co., Ltd. Integral door and magnetic sheet pack holder for use in a magnetic recording/reproducing apparatus. 4,694,364, 9-15-87, Cl. 360-99.000.

Matsuda, Shinichi: *See*—
Oosaka, Shigenori; and Matsuda, Shinichi, 4,694,362, Cl. 360-97.000.

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Matsuda, Toshiro, to Nissan Motor Co., Ltd. Anti-skid brake control system performing skid control with both open and close feedback techniques. 4,637,663, 1-20-87, Cl. 303-106.000.

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Matsuda, Toshiro, to Nissan Motor Company, Limited. Anti-skid brake control system performing skid control with both open and close feedback techniques. 4,662,686, 5-5-87, Cl. 303-106.000.

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Matsuda, Toshiro, to Nissan Motor Company, Limited. Method and system for performing fail-safe operation for anti-skid automotive brake control system having a plurality of controllers independently operable to others. 4,701,854, 10-20-87, Cl. 364-426.000.

Matsuda, Toshiro, to Nissan Motor Company, Limited. Fail-safe system in a power regulation circuit for an automotive electronic circuit. 4,707,758, 11-17-87, Cl. 361-18.000.

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Yoshida, Toshihiko; Takiguchi, Haruhisa; Kaneiwa, Shinji; and Matsui, Sadayoshi, 4,716,570, Cl. 372-45.000.
Matsui, Satoru: *See*—
Kikuchi, Masatsune; Matsui, Satoru; Omori, Hiroshi; and Shimoda, Masao, 4,650,523, Cl. 106-315.000.
Matsui, Shigekazu; Kagaya, Kenichi; Ushida, Masao; and Maruyama, Kouichi, to Hoya Corporation. Photo-mask blank comprising a shading layer having a variable etch rate. 4,696,877, 9-29-87, Cl. 430-5.000.
Matsui, Shigekazu: *See*—
Nagarekawa, Osamu; and Matsui, Shigekazu, 4,657,648, Cl. 204-192.260.
Matsui, Shigeru; Sekihara, Kensuke; Kohno, Hideki; Onodera, Takashi; and Shiono, Hidemi, to Hitachi, Ltd. NMR chemical shift imaging method. 4,689,568, 8-25-87, Cl. 324-309.000.
Matsui, Shigeru: *See*—
Sekihara, Kensuke; Yamamoto, Etsuji; Matsui, Shigeru; and Kohno, Hideki, 4,672,318, Cl. 324-307.000.
Sekihara, Kensuke; Matsui, Shigeru; Kohno, Hideki; Yamamoto, Etsuji; and Shiono, Hidemi, 4,716,369, Cl. 324-309.000.
Yamamoto, Etsuji; Kohno, Hideki; Kuroda, Masao; Matsui, Shigeru; and Shiono, Hidemi, 4,683,433, Cl. 324-309.000.
Matsui, Shigetomo; Nakayama, Shigeru; Okada, Hiroichi; and Sakurai, Takashi, to Kawasaki Jukogyo Kabushiki Kaisha. Nozzle for gas shielded arc welding. 4,672,163, 6-9-87, Cl. 219-74.000.
Matsui Shikiso Chemical Co., Ltd.: *See*—
Shimizu, Goro; Hayashi, Yoshimi; Hasegawa, Hajime; Koga, Taiji; Takei, Atsuo; Okuyama, Tohru; and Torigoe, Hideo, 4,666,949, Cl. 521-114.000.
Matsui, Shingo; Ikeda, Hidetsugu; Era, Akio; and Nishimura, Sanji, to Mitsui Aluminium Co., Ltd. Process for recovering gallium from aluminum smelting dust. 4,639,355, 1-27-87, Cl. 423-112.000.
Matsui, Shinichi: *See*—
Akatsu, Yousuke; Yamaguchi, Hirotsugu; Fukushima, Naoto; Hano, Sunao; Sugino, Masaru; Takehara, Shin; and Matsui, Shinichi, 4,693,491, Cl. 280-688.000.
Yamagishi, Koji; Fuse, Takahiro; Kawamura, Masao; and Matsui, Shinichi, 4,642,694, Cl. 358-236.000.
Matsui, Shinya: *See*—
Arai, Ryuichi; Sakaki, Mamoru; and Matsui, Shinya, 4,664,952, Cl. 427-256.000.
Matsui, Showgo; and Kobayashi, Kenichi, to Fujitsu Limited. Method for inspecting a pattern and an apparatus for inspecting a pattern. 4,673,816, 6-16-87, Cl. 250-556.000.
Matsui, Sumio. Container for storing stack of thin and soft sheet materials. 4,678,099, 7-7-87, Cl. 221-48.000.
Matsui, Susumu: *See*—
Degawa, Toru; Fujiwara, Kozo; Hashimoto, Akio; Uchida, Seiju; Okuyama, Gen; and Matsui, Susumu, 4,695,427, Cl. 420-129.000.
Matsui, Takao: *See*—
Itoh, Kenkichi; Matsui, Takao; and Murakami, Toshio, 4,658,950, Cl. 198-577.000.
Matsui, Takashi, to Fukuyama Pearl Shiko Kabushiki Kaisha. Containers for food service. 4,704,510, 11-3-87, Cl. 219-10.55E.
Matsui, Takashi: *See*—
Miyafuji, Motohisa; Nakashima, Yasuhiro; Katayama, Satoru; Matsui, Takashi; Harada, Hidekazu; and Yuki, Youji, 4,656,003, Cl. 420-473.000.
Yazaki, Takao; Noro, Masataka; and Matsui, Takashi, 4,713,282, Cl. 428-216.000.
Matsui, Takayuki: *See*—
Okuyama, Toshiaki; Matsui, Takayuki; Fujimoto, Noboru; and Kubota, Yuzuru, 4,680,526, Cl. 318-802.000.
Matsui, Takeshi; Takeda, Shunichi; and Makino, Tomoatsu, to Nippondenso Co., Ltd. Ignition system for internal combustion engines. 4,638,785, 1-27-87, Cl. 123-644.000.
Matsui, Takeshi: *See*—
Kawai, Motoshi; Yamamoto, Noboru; Mase, Katuhisa; Matsui, Takeshi; Mikino, Tomoatsu; Miyase, Yoshiyuki; Okuda, Ryoichi; and Suzumura, Koichi, 4,649,888, Cl. 123-609.000.
Yamamoto, Noboru; Mase, Katsuhisa; Kawai, Motoshi; Miyase, Yoshiyuki; and Matsui, Takeshi, 4,658,788, Cl. 123-418.000.
Matsui, Tatsuro: *See*—
Nakagima, Masashi; Kojima, Hiroshi; Matsui, Tatsuro; and Dokoshi, Noriaki, 4,698,407, Cl. 528-14.000.
Matsui, Tetsu, to Tokai Rubber Industries, Ltd. Mounting structure for power unit. 4,648,576, 3-10-87, Cl. 248-550.000.
Matsui, Tohru; and Egawa, Takeshi, to Minolta Camera Kabushiki Kaisha. Focus detection system and lighting device therefor. 4,690,538, 9-1-87, Cl. 354-403.000.
Matsui, Tooru: *See*—
Yamaura, Junichi; Toyoguchi, Yoshinori; Matsui, Tooru; and Iijima, Takashi, 4,658,498, Cl. 29-623.100.
Yamaura, Junichi; Matsui, Tooru; Nankai, Shiro; and Toyoguchi, Yoshinori, 4,668,594, Cl. 429-194.000.
Yoshinori, Toyoguchi; Yamaura, Junichi; Matsui, Tooru; and Iijima, Takashi, 4,683,182, Cl. 429-194.000.
Matsui, Toru: *See*—
Karasaki, Toshihiko; Matsui, Toru; and Ueda, Hiroshi, 4,696,558, Cl. 354-406.000.
Matsui, Toshikazu; Fushida, Akira; Honda, Nobuyasu; Nakao, Minoru; and Tsuji, Nobuyuki, to Mita Industrial Co., Ltd. Developing device. 4,686,935, 8-18-87, Cl. 118-658.000.
Matsui, Toshikazu: *See*—
Fushida, Akira; Matsui, Toshikazu; Hasegawa, Yuuji; Maeda, Masahiko; Tsuji, Nobuyuki; Horiuchi, Akira; and Yukitake, Kazunori, 4,652,510, Cl. 430-122.000.
Matsui, Toshiro: *See*—
Takahashi, Kazuyoshi; Suzuki, Koji; Nagahira, Joji; Yoshihara, Kunio; Matsui, Toshiro; and Ishikawa, Tadashi, 4,709,319, Cl. 363-49.000.
Matsui, Toshiya, to NEC Corporation. Multivoice signal switching circuit. 4,716,589, 12-29-87, Cl. 381-3.000.
Matsui, Toshiyuki, to Kabushiki Kaisha Kenwood. Signal control apparatus. 4,710,962, 12-1-87, Cl. 381-102.000.
Matsui, Tsutomu; Fuji, Shinichiro; and Kakishima, Mitsutoshi, to Tokyo Electric Co., Ltd. Dot printer. 4,643,597, 2-17-87, Cl. 400-124.000.
Matsui-Walterschield Ltd.: *See*—
Suzuki, Tsunehiko, 4,645,372, Cl. 403-325.000.

Matsui, Yoshiaki: *See*—
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,633,662, Cl. 57-286.000.
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,689,944, Cl. 57-260.000.

Matsui, Yoshimitsu; Horiguchi, Michiyuki; and Ohashi, Masakazu, to Sharp Kabushiki Kaisha. Data transmission control apparatus in local network systems. 4,672,543, 6-9-87, Cl. 364-200.000.

Matsui, Yukinori: *See*—
Uchiyama, Hiroshi; and Matsui, Yukinori, 4,636,297, Cl. 208-48.0AA.

Matsui, Yutaka, to Kabushiki Kaisha Toshiba. Ultrasonic diagnostic equipment. 4,633,883, 1-6-87, Cl. 128-660.000.

Matsui, Yuuji: *See*—
Nakamura, Michio; Tsunoda, Minoru; Murakami, Hiroshi; Matsui, Yuuji; Matsuhashi, Noriyasu; and Fukuchi, Kiyoshi, 4,653,762, Cl. 280-5.00A.

Matsushi, Tsutomu: *See*—
Tanaka, Kiyoshi; Saeki, Masaru; Matsushi, Tsutomu; Koga, Yoshihiro; and Kawakita, Tetsuya, 4,714,767, Cl. 548-344.000.
Tosa, Takafumi; Koga, Yoshihiro; and Matsushi, Tsutomu, 4,691,054, Cl. 562-554.000.

Matsukas, George A.: *See*—
Passarelli, Frank J.; Matsukas, George A.; and Caspary, Charles F., 4,710,272, Cl. 202-205.000.

Matsukawa, Hiroharu: *See*—
Kakimi, Fujio; Matsukawa, Hiroharu; Akiyoshi, Yutaka; and Kobayashi, Shinzo, 4,650,769, Cl. 436-533.000.

Matsukawa, Naohiro; Morita, Shigeru; and Nozawa, Hiroshi, to Kabushiki Kaisha Toshiba. Method of manufacturing nonvolatile semiconductor memory device by forming additional impurity doped region under the floating gate. 4,642,881, 2-17-87, Cl. 29-576.000.

Matsukawa, Nobuo: *See*—
Machida, Kiyosada; Nakano, Yoshiyuki; and Matsukawa, Nobuo, 4,697,909, Cl. 354-484.000.

Matsukawa, Takayuki, to Mitsubishi Denki Kabushiki Kaisha. Method of making multilayer capacitor memory device. 4,700,457, 10-20-87, Cl. 437-52.000.

Matsukawa, Tetsuya: *See*—
Takahashi, Tsutomu; Matsukawa, Tetsuya; Naito, Yoshihiro; and Sato, Akihiro, 4,652,540, Cl. 502-108.000.

Matsukawa, Yutaka: *See*—
Tsuchiya, Yukio; and Matsukawa, Yutaka, 4,640,381, Cl. 181-144.000.

Matsuki, Kanji: *See*—
Kanoh, Kunihiko; Matsuki, Kanji; Ohta, Kazuhisa; and Sawahara, Tadaomi, 4,711,289, Cl. 164-34.000.

Matsuki, Michio: *See*—
Ohshima, Masaru; and Matsuki, Michio, 4,644,552, Cl. 372-45.000.

Matsuki, Seiichiro: *See*—
Yamada, Fumiya; Matsuki, Seiichiro; Kawamura, Masahiko; and Kawamoto, Masashi, 4,710,835, Cl. 360-106.300.

Matsuki, Taketo: *See*—
Nakahara, Akihiro; and Matsuki, Taketo, 4,714,253, Cl. 273-228.000.

Matsuki, Yuji: *See*—
Ichikawa, Wataru; Matsuki, Yuji; Hirata, Yoshiaki; and Ito, Mikiya, 4,695,235, Cl. 425-29.000.

Matsukuma, Ikuo: *See*—
Hirata, Tadashi; Matsukuma, Ikuo; Yoshie, Shigeo; Sato, Kiyoshi; and Ohashi, Yoichi, 4,708,956, Cl. 514-210.000.

Matsukuma, Kunihiro: *See*—
Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hiroshi; Isogai, Tokio; Satoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, 4,643,913, Cl. 427-75.000.

Matsukura, Hiroyuki; and Yamauchi, Fumio, to NEC Corporation. Low-noise type impact printer. 4,636,101, 1-13-87, Cl. 400-690.000.

Matsukura, Toyotsugu: *See*—
Ishimura, Yohzoh; Nakano, Okihiko; Matsukura, Toyotsugu; and Kanaoka, Toshiaki, 4,663,508, Cl. 219-10.55C.

Matsumaru, Takeo: *See*—
Akuchi, Yoshiaki; and Matsumaru, Takeo, 4,635,019, Cl. 336-180.000.

Matsumi, Takatomo: *See*—
Takimoto, Kazutoshi; Matsumi, Takatomo; and Kikuchi, Koji, 4,679,414, Cl. 68-12.00R.

Matsumiya, Sadayuki: *See*—
Hanaoka, Hiroshi; and Matsumiya, Sadayuki, 4,684,257, Cl. 356-374.000.

Matsumora, Satoru: *See*—
Hatayama, Masato; and Matsumora, Satoru, 4,700,025, Cl. 200-5.00A.

Matsumori, Yasuo: *See*—
Yamamoto, Shinji; Katjiri, Kouhei; Nagakura, Kouichi; Oda, Denichi; Matsumori, Yasuo; and Nakayama, Kimio, 4,703,086, Cl. 525-133.000.

Matsumoto, Atsushi: *See*—
Suzuki, Tatsuo; and Matsumoto, Atsushi, 4,673,393, Cl. 604-167.000.
Suzuki, Tatsuo; and Matsumoto, Atsushi, 4,682,981, Cl. 604-158.000.

Matsumoto, Fujio; Doi, Hajime; Mizushima, Kunio; Funahashi, Masaya; Taniguchi, Tomizo; and Sakamoto, Shoichi, to Hitachi Maxell, Ltd. Recording disc cartridge. 4,709,816, 12-1-87, Cl. 206-444.000.

Matsumoto, Fumio, to Fuji Photo Film Co., Ltd. Method for detecting image information. 4,650,316, 3-17-87, Cl. 355-55.000.

Matsumoto, Fumio, to Fuji Photo Film Co., Ltd. Method and apparatus for detecting and processing image information. 4,659,213, 4-21-87, Cl. 355-38.000.

Matsumoto, Fumio, to Fuji Photo Film Co., Ltd. Picture frame detecting and stopping method. 4,660,965, 4-28-87, Cl. 355-41.000.

Matsumoto, Fumio, to Fuji Photo Film Co., Ltd. Method and apparatus for detecting photographic image information. 4,662,306, 5-19-87, Cl. 356-404.000.

Matsumoto, Fumio; Nakauchi, Kenji; and Iijima, Hideaki, to Fuji Photo Film Co., Ltd. Method for calibrating photographic image information. 4,666,307, 5-19-87, Cl. 356-404.000.

Matsumoto, Fumio; Nakauchi, Kenji; and Shiraishi, Atsushi, to Fuji Photo Film Co., Ltd. Image information detecting apparatus. 4,667,245, 5-19-87, Cl. 358-214.000.

Matsumoto, Fumio, to Fuji Photo Film Co., Ltd. Photographic printing system. 4,692,797, 9-8-87, Cl. 358-76.000.

Matsumoto, Fumio, to Fuji Photo Film Co., Ltd. Method for reading out image information on an image having a wide dynamic range. 4,704,633, 11-3-87, Cl. 358-213.270.

Matsumoto, Fumio: *See*—
Ikegami, Yoshiki; Matsumoto, Fumio; Sato, Yasuaki; and Hayakawa, Yoshio, 4,663,711, Cl. 364-900.000.
Kito, Eiichi; and Matsumoto, Fumio, 4,653,900, Cl. 355-79.000.

Matsumoto, Fuyuhiko; and Tsushima, Shuuichi, to Ricoh Company, Ltd. Cleaning device. 4,673,284, 6-16-87, Cl. 355-15.000.

Matsumoto, Goro; Shimizu, Koichi; and Fujita, Hiroyuki, to Matsumoto, Goro; and Hitachi Medical Corporation. Apparatus for measuring the three-dimensional shape of a solid object. 4,668,094, 5-26-87, Cl. 356-376.000.

Matsumoto, Hakuji: *See*—
Watanabe, Haruo; Mitsuhida, Noboru; Andoh, Makoto; and Matsumoto, Hakuji, 4,647,532, Cl. 435-28.000.

Matsumoto, Haruo: *See*—
Yorita, Tadahiro; Matsumoto, Haruo; and Nakatsuji, Ikuo, 4,680,563, Cl. 333-206.000.

Matsumoto, Haruyuki: *See*—
Matsumoto, Tokio; Aoki, Seiichi; Matsuda, Hiroto; Ikeda, Masaru; Matsumoto, Haruyuki; and Saito, Asao, 4,646,105, Cl. 346-1.100.
Sugitani, Hiroshi; Ozawa, Masakazu; Matsuda, Hiroto; Ikeda, Masami; and Matsumoto, Haruyuki, 4,701,766, Cl. 346-1.100.

Matsumoto, Hidekazu: *See*—
Kobayashi, Takao; Abe, Shigeo; Bandoh, Tadashi; Takano, Masao; Matsumoto, Hidekazu; and Hara, Hideyuki, 4,644,490, Cl. 364-748.000.

Matsumoto, Hideki: *See*—
Katsuragi, Koji; Ozaki, Hirofumi; Kawahara, Yoshihiro; Matsumoto, Hideki; Tomoe, Tetsuro; and Kobayashi, Kazuhiro, 4,687,357, Cl. 400-208.000.

Matsumoto, Hiromi: *See*—
Kikuma, Toshio; Matsumoto, Hiromi; Tagawa, Masayoshi; Kajiwara, Toshiyuki; Kimura, Tomoaki; Iida, Yoshihiko; and Yoshimoto, Kenichi, 4,700,312, Cl. 364-472.000.

Matsumoto, Hiromichi; and Hashimoto, Ritsuo, to Omron Tateisi Electronics Co. System for controlling communication between a main control assembly and programmable terminal units. 4,639,555, 1-27-87, Cl. 364-900.000.

Matsumoto, Hiromichi, to Omron Tateisi Electronics Co. IC card system. 4,683,372, 7-28-87, Cl. 235-492.000.

Matsumoto, Hironori: *See*—
Hashimoto, Takatsugu; Machara, Akihiro; Tomita, Sensuke; Funahashi, Yuichi; Watanabe, Junichiro; Sugiura, Kazuo; and Matsumoto, Hironori, 4,714,734, Cl. 524-496.000.
Watanabe, Junichiro; Funahashi, Yuichi; Sugiura, Kazuo; and Matsumoto, Hironori, 4,630,968, Cl. 52[illegible]-1.000.
Watanabe, Junichiro; Funahashi, Yuichi; Sugiura, Kazuo; and Matsumoto, Hironori, 4,657,965, Cl. 524-506.000.

Matsumoto, Hiroo: *See*—
Takahashi, Yasuhiro; Arai, Kazutaka; Ohara, Yoshio; Matsumoto, Hiroo; and Tsuchiya, Syuuzi, 4,709,082, Cl. 560-105.000.

Matsumoto, Hiroshi: *See*—
Nagano, Eiki; Takemoto, Ichiki; Fukushima, Masayuki; Yoshida, Ryo; and Matsumoto, Hiroshi, 4,670,043, Cl. 71-92.000.
Nagano, Eiki; Hashimoto, Shunichi; Yoshida, Ryo; Matsumoto, Hiroshi; and Kamoshita, Katsuzo, 4,670,046, Cl. 71-96.000.
Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,684,397, Cl. 71-96.000.
Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,709,049, Cl. 548-513.000.
Oka, Hiroyuki; Akasaka, Shinichi; Ohara, Shuichi; Hattori, Shintarou; Mori, Yasuki; Narahara, Toshikazu; and Matsumoto, Hiroshi, 4,690,858, Cl. 428-216.000.

Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Kenji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, to Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Combustion process sensor. 4,665,740, 5-19-87, Cl. 73-116.000.

Matsumoto, Hisayoshi, to Citizen Watch Co., Ltd. Protection circuit for drive transistor of printer head. 4,705,412, 11-10-87, Cl. 400-54.000.

Matsumoto, Hitoshi: *See*—
Satoh, Toshio; Matsumoto, Hitoshi; Kakegawa, Hisao; Kato, Yoshiko; Riku, Junchi; Yoshinaga, Junji; and Kanamoto, Yoshifumi, 4,634,777, Cl. 548-561.000.

moto, Ikuo: *See*—
ji, Kuniharu; and Matsumoto, Ikuo, 4,699,817, Cl. 428-64.000.
kamura, Takeshi; Matsumoto, Ikuo; and Ando, Kenji, 4,649,310, Cl. 310-321.000.
kamura, Takeshi; Ando, Kenji; and Matsumoto, Ikuo, 4,651,042, Cl. 310-321.000.
kamura, Takeshi; and Matsumoto, Ikuo, 4,658,173, Cl. 310-321.000.
kamura, Takeshi; Nishiyama, Hiroshi; and Matsumoto, Ikuo, 4,697,116, Cl. 310-322.000.
kiya, Satoshi; Matsumoto, Ikuo; and Fujiki, Kuniharu, 4,671,995, Cl. 428-336.000.
kiya, Satoshi; Matsumoto, Ikuo; and Fujiki, Kuniharu, 4,708,906, Cl. 428-336.000.
mezawa, Hamao; Takeuchi, Tomio; Nagatsu, Toshiharu; Hamada, Mass; Iwadare, Shuichi; Matsumoto, Ikuo; and Morishima, Hajime, 4,699,879, Cl. 435-116.000.
oshizawa, Junji; Tsuchiya, Yoshimi; Hirayama, Yukio; Shimada, Kaoru; Mino, Nobuyuki; Nakamichi, Kyoko; and Matsumoto, Ikuo, 4,668,795, Cl. 514-252.000.
moto, Jun-ichi; Miyamoto, Teruyuki; Uno, Hitoshi; and kamura, Shinichi, to Dainippon Pharmaceutical Co., Ltd. Antibacnal 7-(3-amino-1-pyrrolidinyl)-1-cyclopropyl-6-fluoro-1,4-dihydro-oxo-1,8-naphthyridine-3-carboxylic acid derivatives. 4,649,144, 10-87, Cl. 514-300.000.
moto, Junichiro: *See*—
Mori, Shigeo; and Matsumoto, Junichiro, 4,703,114, Cl. 536-4.100.
Shinada, Masahiro; Matsumoto, Junichiro; Nonaka, Susumu; and Sayama, Haruo, 4,710,041, Cl. 400-120.000.
moto, Katsuaki; and Taguchi, Takao, to Fuji Seiki Machine Works, Ltd. Process for manufacturing fine blasting media for use in nt blasting. 4,666,465, 5-19-87, Cl. 51-293.000.
moto, Katsumi: *See*—
Kobayashi, Toshiji; and Matsumoto, Katsumi, 4,639,628, Cl. 310-194.000.
Kishi, Hideo; and Matsumoto, Katsumi, 4,649,442, Cl. 360-72.200.
moto, Kazuhisa; Morishita, Hiroshi; Akai, Shinichi; and Hiyamizu, Shintaro, to Nippon Telegraph & Telephone Corporation; and Nippon Telegraph and Telephone Liquid encapsulation method for growing single semiconductor crystals. 4,645,560, 2-24-87, Cl. 156-607.000.
moto, Kazuo; and Takashima, Kohki, to Tanabe Seiyaku Co., Ltd. Furyloxazolylacetic acid derivatives and processes for preparing same. 4,642,313, 2-10-87, Cl. 514-374.000.
moto, Kazutoshi; Nakamura, Tetsuro; Hyuga, Takehiro; and Ichihara, Hiroshi, to Sumitomo Metal Mining Company Limited. Dielectric ceramics. 4,692,421, 9-8-87, Cl. 501-136.000.
moto, Kazuya; and Nakamura, Tsutomu, to Olympus Optical Co., Ltd. Solid state image sensor. 4,677,453, 6-30-87, Cl. 357-30.000.
moto, Kazuya, to Olympus Optical Co., Ltd. Solid state image sensing device. 4,700,231, 10-13-87, Cl. 358-213.120.
moto, Kazuya: *See*—
Nakamura, Tsutomu; and Matsumoto, Kazuya, 4,684,992, Cl. 358-213.120.
Tomita, Yasuo; Ogura, Shigetaro; and Matsumoto, Kazuya, 4,617,684, Cl. 350-96.190.
moto, Kazuyuki; Hashimoto, Mashataka; and Iwata, Michiyoshi, to Teijin Seiki Co., Ltd. Robot arm drive apparatus of industrial robot. 4,690,010, 9-1-87, Cl. 74-469.000.
moto, Keiichi: *See*—
Aoyagi, Yoshiro; Kimura, Toshiyuki; Nimura, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Keiichi; Hamo, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77.100.
moto, Kenichi: *See*—
Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased; Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Eiji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.
moto, Kenji: *See*—
Kurihara, Haruki; Tamura, Hideo; Suzuki, Kazuo; and Matsumoto, Kenji, 4,663,762, Cl. 372-45.000.
Miyata, Toshimi; Takahashi, Toshiki; and Matsumoto, Kenji, 4,648,222, Cl. 52-208.000.
Tanaka, Junsuke; and Matsumoto, Kenji, 4,657,994, Cl. 526-68.000.
moto, Kenzo, to Kabushiki Kaisha Toshiba. Image signal-processing system based on synthetic aperture technique. 4,653,000, 3-24-87, Cl. 364-414.000.
moto, Kihachiro: *See*—
Imami, Tatsuo; Koizumi, Katuo; Imahashi, Toshiaki; and Matsumoto, Kihachiro, 4,669,190, Cl. 30-273.000.
moto, Kiyoharu: *See*—
Kawada, Mitsuru; Matsumoto, Kiyoharu; and Tsurushima, Masaaki, 4,689,404, Cl. 536-23.000.
moto, Kiyokazu: *See*—
Tajima, Takashi; Matsumoto, Kiyokazu; and Shibabuchi, Toshio, 4,674,775, Cl. 285 330.000.
moto, Koichi: *See*—
Kameyama, Masaomi; and Matsumoto, Koichi, 4,715,318, Cl. 118-722.000.
Kondo, Eiji; Kawamura, Yoshimi; Konishi, Takao; Matsumoto, Koichi; and Shoji, Junichi, 4,647,693, Cl. 562-439.000.
Matsumoto, Kouichi, to Sharp Kabushiki Kaisha. Cleaner for an electrophotographic copying machine. 4,685,798, 8-11-87, Cl. 355-15.000.
Matsumoto, Kouichi: *See*—
Tanaka, Kentaro; Kondo, Eiji; Matsumoto, Kouichi; and Tsuji, Naoki, 4,647,408, Cl. 540-350.000.
Wakisaka, Yoshiharu; Uo, Junko; Matsumoto, Kouichi; Ohodaira, Osamu; and Tanaka, Kentaro, 4,713,241, Cl. 424-93.000.
Matsumoto, Kouji, to NEC Corporation. TTL-ECL level converter operable with small time delay by controlling saturation. 4,698,527, 10-6-87, Cl. 307-475.000.
Matsumoto, Kouji: *See*—
Minekane, Tomiharu; and Matsumoto, Kouji, 4,664,885, Cl. 422-65.000.
Matsumoto, Kozo: *See*—
Nakamura, Junji; Nishimura, Ikuma; Saito, Goro; and Matsumoto, Kozo, 4,710,436, Cl. 429-41.000.
Ueda, Sigel; Matsumoto, Kozo; Kanarwa, Kiyoshi; and Adachi, Muneo, 4,701,746, Cl. 340-347.0DD.
Matsumoto, Kuniaki: *See*—
Haruna, Koichi; Nakao, Kazuo; Nishiyama, Tamotsu; Tashiro, Tsutomu; Matsumoto, Kuniaki; and Sasda, Nobuyuki, 4,644,480, Cl. 364-552.000.
Matsumoto, Kunio; Kagimoto, Yoshitaka; Hirata, Tsutomu; Watanabe, Susumu; Ohtsuka, Akira; and Takahashi, Kiyoharu, to Toyo Jozo Kabushiki Kaisha. Assaying peptidase enzyme activity. 4,675,290, 6-23-87, Cl. 435-24.000.
Matsumoto, Kunio; and Hirata, Tsutomu, to Toyo Jozo Kabushiki Kaisha. Enzymatic assay method. 4,681,841, 7-21-87. Cl. 435-18.000.
Matsumoto, Kunomi: *See*—
Inouye, Shigeharu; Koyama, Masao; Miyauchi, Keinosuke; Tsuruoka, Takashi; Kai, Fumio; Matsumoto, Kunomi; Ninda, Taro; and Akita, Eiichi, 4,647,572, Cl. 514-381.000.
Matsumoto, Kuniyoshi, to Sanshin Kogyo Kabushiki Kaisha. Separate lubricating system for marine propulsion device. 4,708,674, 11-24-87, Cl. 440-88.000.
Matsumoto Machine Mfg. Co., Ltd.: *See*—
Matsumoto, Takashi, 4,652,254, Cl. 494-58.000.
Matsumoto, Mamoru: *See*—
Iijima, Ikuo; Homma, Koichi; Saiga, Yutaka; Matsuoka, Yuzo; and Matsumoto, Mamoru, 4,663,319, Cl. 514-212.000.
Matsumoto, Masaaki, to Mitsubishi Denki Kabushiki Kaisha. Electrolyte replenishing system for a laminated fuel cell. 4,702,972, 10-27-87, Cl. 429-34.000.
Matsumoto, Masafumi: *See*—
Tanaka, Hironori; Matsumoto, Masafumi; and Konami, Matahira, 4,696,462, Cl. 271-10.000.
Matsumoto, Masahiro: *See*—
Yamaguchi, Hiroshi; Tanaka, Teruaki; Hirai, Masatake; Kohketsu, Tadashi; Matsumoto, Masahiro; and Kawate, Kenji, 4,649,248, Cl. 219-10.570.
Matsumoto, Masakatsu; and Nishimura, Yasunobu, to Sagami Chemical Research Center; and Central Glass Company, Limited. Fluorine-substituted phenyl benzoates and process for producing same. 4,705,814, 11-10-87, Cl. 560-109.000.
Matsumoto, Masakazu; and Yamashita, Masataka, to Canon Kabushiki Kaisha. Electrophotographic photosensitive member. 4,666,809, 5-19-87, Cl. 430-76.000.
Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; Umehara, Shoji; and Ishikawa, Shozo, to Canon Kabushiki Kaisha. Electrophotographic photosensitive member comprising disazo pigment. 4,702,982, 10-27-87, Cl. 430-72.000.
Matsumoto, Masakazu: *See*—
Umehara, Shoji; Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; and Ishikawa, Shozo, 4,666,810, Cl. 430-71.000.
Matsumoto, Masao: *See*—
Nakagawa, Hisao; and Matsumoto, Masao, 4,675,997, Cl. 30-43.000.
Matsumoto, Masaru; Nishihara, Mikio; and Kuwahara, Kiyoshi, to Fujitsu Limited. Multilayer printed wiring board. 4,692,843, 9-8-87, Cl. 361-414.000.
Matsumoto, Masashi: *See*—
Seo, Kiyokazu; Furuhashi, Kuniyoshi; Natori, Sadaaki; and Matsumoto, Masashi, 4,653,230, Cl. 49-502.000.
Matsumoto, Masayuki: *See*—
Shimura, Takaki; Murakami, Keiichi; Igarashi, Yutaka; Shibu, Akira; Hayashi, Hajime; Miwa, Hirohide; Inoue, Michitoshi; and Matsumoto, Masayuki, 4,655,228, Cl. 128-660.000.
Matsumoto, Minoru: *See*—
Savage, Tsutomu; Matsumoto, Minoru; and Yoshikawa, Toru, 4,705,266, Cl. 271-264.000.
Matsumoto, Mitsuhiro: *See*—
Taneya, Motoataka; Matsui, Sadayoshi; and Matsumoto, Mitsuhiro, 4,716,129, Cl. 437-96.000.
Matsumoto, Motoki: *See*—
Nakamura, Kazuharu; Matsumoto, Motoki; Kondo, Akimobu; and Ito, Kiyomobu, 4,710,125, Cl. 431-22.000.
Matsumoto, Muneaki; and Numata, Koji, to Nippon Soken, Inc. Automobile route information display. 4,642,776, 2-10-87, Cl. 364-449.000.
Matsumoto, Muneaki; Akita, Shigeyuki; and Kuno, Akira, to Nippondenso Co., Ltd.; and Nippon Soken, Inc. Information and electrical power transmission system and method for vehicle. 4,661,718, 4-28-87, Cl. 307-10.008.
Matsumoto, Muneaki; Kuno, Akira; and Numata, Koji, to Nippon Soken, Inc. Method and apparatus for display of distance and direction to destination. 4,663,719, 5-5-87, Cl. 364-444.000.
Matsumoto, Muneaki: *See*—
Kuno, Akira; Matsumoto, Muneaki; and Numata, Koji, 4,672,565, Cl. 364-571.000.

Matsumoto, Mutsumi; and Wada, Kouichi, to Nippon Kayaku Kabushiki Kaisha. Process for producing methacrylic acid. 4,652,673, 3-24-87, Cl. 562-535.000.
Matsumoto, Mutsuo; and Nagayama, Kuniaki, to JEOL Ltd. Method of preparing thin crystal or film. 4,675,071, 6-23-87, Cl. 156-621.000.
Matsumoto, Naoaki, to Casio Computer Co., Ltd. Electronic musical instrument with play guide function. 4,651,612, 3-24-87, Cl. 84-1.030.
Matsumoto, Naoaki, to Casio Computer Co., Ltd. Electronic musical instrument having autoplay function. 4,662,262, 5-5-87, Cl. 84-1.030.
Matsumoto, Noboru. *See*—
Kume, Toyohiko; Kurahashi, Yoshio; Isono, Kunihiro; Sakawa, Shinji; and Matsumoto, Noboru, 4,700,006, Cl. 568-67.000.
Kurahashi, Yoshio; Shiokawa, Kozo; Goto, Toshio; Kagabu, Shinzo; Matsumoto, Noboru; and Moriya, Koichi, 4,708,953, Cl. 514-166.000.
Saito, Junichi; Tamura, Tatsuo; Kurahashi, Yoshio; Uzawa, Shigeru; Matsumoto, Noboru; and Yamaguchi, Naoko, 4,710,509, Cl. 514-384.000.
Matsumoto, Nobuo. *See*—
Sato, Toshiaki; Mori, Hisako; Horio, Yashuhiko; Tabuchi, Kastumi; Matsumoto, Nobuo; and Nishii, Kazuhiko, 4,712,160, Cl. 361-388.000.
Matsumoto, Nobuyoshi. *See*—
Tsuda, Kenji; Matsumoto, Nobuyoshi; and Tsukagawa, Masahide, 4,707,188, Cl. 106-93.000.
Matsumoto, Norio; Okuda, Shinya; Ohkuma, Osamu; and Seino, Mituyoshi, to Fujitsu Limited. Printer with pivotable print head attached to medium carrier moveable through a casing opening. 4,641,980, 2-10-87, Cl. 400-120.000.
Matsumoto, Osamu. *See*—
Ota, Minemasa; Matsumoto, Osamu; and Ohira, Hiroyuki, 4,680,745, Cl. 369-45.000.
Ueda, Kazuhiro; Yamaguchi, Toshiaki; Kajiyama, Kouji; and Matsumoto, Osamu, 4,714,089, Cl. 137-614.180.
Matsumoto, Rempei, to Fuji Jukogyo Kabushiki Kaisha. Four-wheel drive system for motor vehicles. 4,699,237, 10-13-87, Cl. 180-250.000.
Matsumoto, Ryouhei. *See*—
Umeda, Yoshiaki; Matsumoto, Ryouhei; Isomura, Hiroyasu; and Shimotaka, Hisakuni, 4,691,499, Cl. 53-451.000.
Matsumoto, Satoshi. Method for producing composite ester. 4,661,622, 4-28-87, Cl. 560-199.000.
Matsumoto, Satoshi, to Research Development Corporation of Japan. Esterification and/or ester interchange catalyst. 4,705,764, 11-10-87, Cl. 502-62.000.
Matsumoto, Satoshi. *See*—
Asari, Akira; Matsumoto, Satoshi; Haitori, Shigeo; and Dosai, Takayoshi, 4,637,112, Cl. 29-159.010.
Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; Ueno, Tsuneya; Matsumoto, Satoshi; Dosai, Takayoshi; Ohtsuki, Fumikazu; Fujimoto, Kazuhiro; and Takahashi, Toshimitsu, 4,669,291, Cl. 72-83.000.
Matsumoto, Seiji. *See*—
Andoh, Haruo; and Matsumoto, Seiji, 4,693,931, Cl. 428-328.000.
Matsumoto, Seikichi; and Ikeda, Hiroyuki, to Fujitsu Limited. Light scanning apparatus. 4,639,071, 1-27-87, Cl. 350-3.710.
Matsumoto, Seikichi. *See*—
Ikeda, Hiroyuki; Matsumoto, Seikichi; Kitagawa, Shunji; Inagaki, Takefumi; and Sebata, Ichiro, 4,639,070, Cl. 350-3.710.
Matsumoto, Seishi; Nakashimizu, Takeo; and Abe, Yuji, to Kabushiki Kaisha Ishida Koki Seisakusho. Combinatorial weighing and combinatorial counting method and apparatus. 4,658,920, 4-21-87, Cl. 177-25.000.
Matsumoto, Shinichi. *See*—
Ikeda, Shinji; and Matsumoto, Shinichi, 4,633,842, Cl. 123-501.000.
Matsumoto, Shiroh. *See*—
Nakata, Akira; Matsumoto, Shiroh; Tozima, Hitoshi; and Minato, Masahiko, 4,712,706, Cl. 220-276.000.
Matsumoto, Shungo. *See*—
Doi, Sadao; Yamada, Tohru; Matsumoto, Shungo; and Yamamoto, Taizo, 4,697,644, Cl. 172-123.000.
Matsumoto, Shusaku. *See*—
Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,647,598, Cl. 522-3.000.
Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,690,788, Cl. 264-22.000.
Matsumoto, Shuso. *See*—
Tajikawa, Osamu; and Matsumoto, Shuso, 4,660,054, Cl. 346-139.00R.
Toyama, Akio; Matsumoto, Shuso; and Tada, Kazunori, 4,646,109, Cl. 346-134.000.
Matsumoto, Shuzo. *See*—
Ameyama, Minoru; Isayama, Takuro; Yamazaki, Hiroshi; Matsumoto, Shuzo; Katano, Yasuo; and Iwasaki, Kyuhachiro, 4,673,955, Cl. 346-140.00R.
Matsumoto, Susumu; Suzuki, Shigeru; Watanabe, Hisao; and Hanabe, Hiroshi, to Mitsubishi Chemical Industries Limited. Benzofuranyloxyphenylurea derivative and herbicidal composition containing it as an active ingredient. 4,705,554, 11-10-87, Cl. 71-88.000.
Matsumoto, Tadao; and Inazuma, Sunao, to Nippon Suisan Kaisha, Ltd. Apparatus for continuously processing fish flesh. 4,708,055, 11-24-87, Cl. 99-484.000.
Matsumoto, Tadashi; and Fukakura, Katsuya, to National House Industrial Co., Ltd. Door installation and a locking device used therein. 4,657,206, 4-14-87, Cl. 292-173.000.
Matsumoto, Tadashi. *See*—
Fujiwara, Hiroshi; Matsumoto, Tadashi; and Sekiya, Masaaki, 4,709,009, Cl. 528-481.000.
Itoh, Seiga; Nishi, Tatsunari; Mizukami, Tamio; Matsumoto, Tadashi; Oka, Tetsuo; Taniguchi, Tadatsugu; and Sugano, Haruo, 4,686,191, Cl. 435-320.000.
Matsumoto, Takahiro; Nishio, Tetsuo; Maekawa, Hirofumi; and Oota, Hisashi, to Mitsubishi Denki Kabushiki Kaisha. Cryogenic vessel for a superconducting apparatus. 4,655,045, 4-7-87, Cl. 62-45.000.
Matsumoto, Takahiro. *See*—
Machara, Naoyoshi; Matsumoto, Takahiro; Kusunoki, Shigeru; Sakamoto, Kazuho; and Mihara, Makoto, 4,704,674, Cl. 363-131.000.
Saitou, Yosio; Kataoka, Takeshi; Takechi, Moriaki; and Matsumoto, Takahiro, 4,707,676, Cl. 335-216.000.
Matsumoto, Takanao. *See*—
Yamano, Masaru; Sakai, Takashi; Furukawa, Nobuhiro; Murakami, Shuzo; and Matsumoto, Takanao, 4,636,445, Cl. 429-53.000.
Matsumoto, Takashi, to Matsumoto Machine Mfg., Co., Ltd. Centrifugal separator. 4,652,254, 3-24-87, Cl. 494-58.000.
Matsumoto, Takashi, to Fuji Photo Film Co., Ltd. Thin-film magnetic head. 4,672,495, 6-9-87, Cl. 360-125.000.
Matsumoto, Takashi, to Fuji Photo Film Co., Ltd. Magnetic head device including magnetic media biasing and positioning means. 4,710,837, 12-1-87, Cl. 360-110.000.
Matsumoto, Takemasa. *See*—
Takeuchi, Hideo; Kobayashi, Michiaki; Yoritsune, Osamu; and Matsumoto, Takemasa, 4,694,749, Cl. 101-426.000.
Matsumoto, Takeshi, to Yamato Mishin Seizo Kabushiki Kaisha. Ornamental thread automatic cutting device of flat plural-needles sewing machine. 4,683,828, 8-4-87, Cl. 112-294.000.
Matsumoto, Takeshi. *See*—
Endo, Hideki; Hashimoto, Kazuto; Tanaka, Kenji; Matsumoto, Takeshi; Igi, Keishiro; Okamura, Takayuki; Taniguchi, Shunro; Ishii, Masao; Murata, Yoshifumi; and Yokota, Shinichi, 4,657,973, Cl. 525-67.000.
Matsumoto, Tetsuro; and Kajigaya, Kazuhiko, to Hitachi, Ltd. Semiconductor memory device. 4,635,233, 1-6-87, Cl. 365-230.000.
Matsumoto, Tetsuro, to Hitachi, Ltd. Semiconductor memory device. 4,638,460, 1-20-87, Cl. 365-149.000.
Matsumoto, Tokikazu; and Igata, Kouichi, to Matsushita Electric Industrial Co., Ltd. Phase control system for a video tape recorder. 4,635,137, 1-6-87, Cl. 360-10.200.
Matsumoto, Tokikazu, to Matsushita Electric Industrial Co., Ltd. Chrominance signal processing system. 4,670,776, 6-2-87, Cl. 358-40.000.
Matsumoto, Tokikazu; Nakagawa, Yukio; and Uchiyama, Shinichi, to Matsushita Electric Industrial Co., Ltd. Chrominance signal processing system. 4,673,970, 6-16-87, Cl. 358-27.000.
Matsumoto, Tokikazu, to Matsushita Electric Industrial Co., Ltd. Video signal processing apparatus for compensating for time differences between luminance and chrominance signals of a PAL system. 4,695,877, 9-22-87, Cl. 358-36.000.
Matsumoto, Tokio; Aoki, Seiichi; Matsuda, Hiroto; Ikeda, Masami; Matsumoto, Haruyuki; and Saito, Asao, to Canon Kabushiki Kaisha. Liquid jet recording method. 4,646,105, 2-24-87, Cl. 346-1.100.
Matsumoto, Tooru; Ishikawa, Satoshi; Nakamura, Eiji; Izuoka, Tomio; and Okada, Tomoyuki, to Honda Giken Kogyo Kabushiki Kaisha; Mie Yushikako Kabushiki Kaisha; and Sankei Giken Kogyo Kabushiki Kaisha. Heat-resistant coating composition and heat-resistant coat. 4,657,963, 4-14-87, Cl. 524-406.000.
Matsumoto, Tooru. *See*—
Sugizaki, Tsugio; Abe, Tadashi; Haibara, Fumio; Fuji, Ritsuo; Ura, Hiroaki; and Matsumoto, Tooru, 4,650,176, Cl. 271-225.000.
Matsumoto, Toru. *See*—
Wakamiya, Katsutoshi; Matsumoto, Toru; and Yamazaki, Masuo, 4,656,111, Cl. 430-109.000.
Wakamiya, Katsutoshi; Matsumoto, Toru; and Yamazaki, Masuo, 4,661,430, Cl. 430-120.000.
Matsumoto, Toshio. *See*—
Kato, Motokazu; and Matsumoto, Toshio, 4,654,779, Cl. 364-200.000.
Matsumoto, Tsuruyoshi. *See*—
Kishida, Kazuo; Ueda, Kazuo; Kitai, Kiyokazu; and Matsumoto, Tsuruyoshi, 4,663,382, Cl. 524-504.000.
Matsumoto, Tsutomu. *See*—
Eto, Kunihiko; Iwashita, Shigeo; and Matsumoto, Tsutomu, 4,637,483, Cl. 180-142.000.
Matsumoto, Tsuyoshi. *See*—
Iida, Hiroyuki; Murakami, Haruhiko; Matsumoto, Tsuyoshi; and Kashihara, Junzo, 4,711,313, Cl. 177-127.000.
Matsumoto, Yasuo. *See*—
Andeen, Gerry B.; Matsumoto, Yasuo; and Cohn, Patricia O., 4,647,945, Cl. 346-1.100.
Hara, Seinosuke; Ofuji, Hiromichi; Miisyo, Kazuyuki; Matsumoto, Yasuo; and Kato, Manabu, 4,708,101, Cl. 123-90.160.
Koshino, Minoru; and Matsumoto, Yasuo, 4,698,754, Cl. 364-200.000.
Matsumoto, Yasuyuki; Murai, Keiichi; Fukuda, Tadaji; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Photoconductive member and support for said photoconductive member. 4,702,981, 10-27-87, Cl. 430-69.000.
Matsumoto, Yoshiaki; Yamagata, Shinji; and Segihara, Kazuyoshi, to Mitsubishi Denki Kabushiki Kaisha. Circuit breaker. 4,695,814, 9-22-87, Cl. 337-77.000.

Matsumoto, Yoshihiro; Kubota, Yoshitaka; Tsukuma, Koji; and Tsukidate, Takaaki, to Toyo Soda Manufacturing Co., Ltd. High-strength metal working tool made of a zirconia-type sintered material. 4,666,467, 5-19-87, Cl. 51-309.000.

Matsumoto, Yoshihiro: *See*—
Shinozaki, Masatoshi; Matsumoto, Yoshihiro; Aoyagi, Yoshiki; and Kojima, Kazuhisa, 4,678,707, Cl. 428-323.000.

Matsumoto, Yoshio; Fuji, Toshio; Shinohara, Yoshinao; and Fukuda, Kiyoshi, to Mitsubishi Chemical Industries Limited. Polypropylene resin composition and biaxially stretched film thereof. 4,705,828, 11-10-87, Cl. 525-232.000.

Matsumoto, Yoshishige; and Iwata, Naotaka, to NEC Corporation. Depletion mode two-dimensional electron gas field effect transistor and the method for manufacturing the same. 4,689,646, 8-25-87, Cl. 357-22.000.

Matsumoto, Yukiei: *See*—
Asano, Hiroshi; Shimamune, Takayuki; and Matsumoto, Yukiei, 4,668,531, Cl. 427-58.000.

Matsumoto, Yukiharu: *See*—
Kurono, Masayasu; Hayashi, Motohide; Suzuki, Tsunemasa; Miura, Kenji; Kumagai, Yoshihiro; Matsumoto, Yukiharu; Miyano, Seiji; and Sumoto, Kumihiro, 4,678,801, Cl. 514-413.000.

Matsumoto, Yukihiro: *See*—
Asakura, Masahiko; Kawanabe, Tomohiko; Ueda, Masahiro; Kubota, Shinichi; Kushida, Noritaka; and Matsumoto, Yukihiro, 4,694,803, Cl. 123-440.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Shiina, Takanori; Matsumoto, Yukihiro; and Muroya, Minoru, 4,690,121, Cl. 123-589.000.

Matsumoto, Yukimichi, to Kabushiki Kaisha Fuji Tekkosho. Multi-spindle winder. 4,715,552, 12-29-87, Cl. 242-56.00A.

Matsumoto, Yukio; and Hanayama, Masaru, to Victor Company of Japan, Ltd. Magnetic recording media. 4,640,863, 2-3-87, Cl. 428-323.000.

Matsumoto, Yukio: *See*—
Kozawa, Shigeyuki; Kuni, Nobuaki; and Matsumoto, Yukio, 4,647,595, Cl. 521-158.000.
Ojima, Kumiko; Narusc, Tsunehide; and Matsumoto, Yukio, 4,645,724, Cl. 428-695.000.

Matsumoto Yushi-Seiyaku Co., Ltd.: *See*—
Hiromoto, Yasuhiko; and Mizuhiro, Yoji, 4,676,837, Cl. 106-271.000.

Matsumoto, Yutaka; Mina, Cesar; Russell, Philip B.; and van Ark, William B., to United States of America, National Aeronautics and Space Administration. Airborne tracking sunphotometer apparatus and system. 4,710,618, 12-1-87, Cl. 250-203.00R.

Matsumoto, Yutaka: *See*—
Woeller, Fritz H.; and Matsumoto, Yutaka, 4,681,142, Cl. 137-614.180.

Matsumura, Hideaki: *See*—
Inou, Kiyoharu; Matsumura, Hideaki; and Saito, Hitoshi, 4,680,688, Cl. 363-21.000.

Matsumura, Hiromu; and Yano, Toshisada, to Shionogi & Co., Ltd. Thiazolylpropenedicarboxylic acid half esters and process for making. 4,652,652, 3-24-87, Cl. 548-194.000.

Matsumura, Hiroyoshi; and Ishida, Koji, to Hitachi, Ltd. Optical integrated circuit. 4,693,543, 9-15-87, Cl. 350-96.110.

Matsumura, Isao, to Canon Kabushiki Kaisha. Stereoscopic microscope with a pair of image rotation correcting means. 4,657,356, 4-14-87, Cl. 350-516.000.

Matsumura, Isao, to Canon Kabushiki Kaisha. Stereoscopic microscope with means for varying stereoscopic viewing angle. 4,674,845, 6-23-87, Cl. 350-516.000.

Matsumura, Isao, to Canon Kabushiki Kaisha. Stereoscopic microscope. 4,699,481, 10-13-87, Cl. 351-205.000.

Matsumura, Isao: *See*—
Ishikawa, Yasuyuki; and Matsumura, Isao, 4,678,297, Cl. 351-208.000.
Kobayashi, Kazunobu; Sekiguchi, Kyoji; Matsumura, Isao; and Madate, Haruhisa, 4,690,525, Cl. 351-206.000.

Matsumura, Ken, to Kabushiki Kaisha Toshiba. Current flow reversing circuit. 4,651,269, 3-17-87, Cl. 363-63.000.

Matsumura, Ken: *See*—
Kimura, Toshio; Tokumo, Teruhiko; and Matsumura, Ken, 4,654,672, Cl. 346-46.000.

Matsumura, Kiichiro; Takahashi, Akio; and Tsukamoto, Jun, to Director-General of Agency of Industrial Science and Technology. Highly electroconductive graphite continuous filament and process for preparation thereof. 4,666,736, 5-19-87, Cl. 427-52.000.

Matsumura, Kiichiro; Takahashi, Akio; and Tsukamoto, Jun, to Director-General of Agency of Industrial Science and Technology. Electroconductive polymer and process for preparation thereof. 4,673,720, 6-16-87, Cl. 526-285.000.

Matsumura, Koichi, to Takeda Chemical Industries, Ltd. Process for producing ketals of 2-ketogulonic acid or its esters. 4,659,808, 4-21-87, Cl. 536-18.500.

Matsumura, Koichi, to Takeda Chemical Industries, Ltd. Process for production of sugar ketals. 4,659,809, 4-21-87, Cl. 536-18.500.

Matsumura, Kozo: *See*—
Hatakeyama, Hiroshi; Ogawa, Masayuki; Matsumura, Kozo; and Nakagawa, Eiji, 4,663,192, Cl. 427-108.000.

Matsumura, Masahiro; Ogasawara, Kenzi; Nakamoto, Atsuhiro; and Sugawa, Yoshihisa, to Matsushita Electric Works, Ltd. Polyimide prepolymer composition from unsaturated bisimide and diamine containing unreacted reactants. 4,686,377, 7-14-87, Cl. 528-322.000.

Matsumura, Misako: *See*—
Uchida, Katsuhiro; Masumoto, Shozo; Tohno, Masao; Mimura, Mitsuo; Okumura, Makoto; Ichikawa, Kiyonoshin; and Matsumura, Misako, 4,699,925, Cl. 514-559.000.

Matsumura, Mitsuie; Okada, Tatsunori; and Gonjo, Yoshihide, to Mitsubishi Denki Kabushiki Kaisha. Internal reforming type fuel cell. 4,647,516, 3-3-87, Cl. 429-19.000.

Matsumura, Mitsuie; Okada, Tatsunori; and Gonjo, Yoshihide, to Mitsubishi Denki Kabushiki Kaisha. Fuel-cell power plant. 4,650,728, 3-17-87, Cl. 429-19.000.

Matsumura Oil Research Corporation: *See*—
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Tamura, Naoyuki; Nakanishi, Hiroshi; Yagi, Tetsuya; and Kuroiwa, Shintaro, 4,664,829, Cl. 252-52.00R.
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Yagi, Tetsuya; and Nakanishi, Hiroshi, 4,711,732, Cl. 252-28.000.

Matsumura, Osamu: *See*—
Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358-236.000.

Matsumura, Sadao: *See*—
Suzuki, Hitoshi; Ebata, Yasuo; Matsumura, Sadao; and Ushizawa, Jisaburo, 4,672,255, Cl. 310-313.00A.

Matsumura, Shuji; Ito, Michiyasu; Tsuji, Syoichi; Suzuki, Hisatosi; and Ito, Syoichi, to Mitsui Toatsu Chemicals, Inc. Resin compostion for porous film and film prepared therefrom. 4,699,733, 10-13-87, Cl. 282-521.000.

Matsumura, Sueyoshi: *See*—
Nobutoki, Kazuhiro; Ono, Kenji; Okahashi, Keiji; and Matsumura, Sueyoshi, 4,688,010, Cl. 335-128.000.

Matsumura, Sumitaka, to Pioneer Electronic Corporation. FM detector with improved distortion and gain characteristics. 4,656,432, 4-7-87, Cl. 329-107.000.

Matsumura, Susumu, to Canon Kabushiki Kaisha. Focus detecting apparatus. 4,636,627, 1-13-87, Cl. 250-201.000.

Matsumura, Susumu; and Suzuki, Takashi, to Canon Kabushiki Kaisha. Light splitter. 4,662,716, 5-5-87, Cl. 350-169.000.

Matsumura, Susumu: *See*—
Kawabata, Takashi; Sato, Yuichi; Tsunekawa, Tokuichi; and Matsumura, Susumu, 4,681,432, Cl. 356-4.000.
Suzuki, Takashi; Matsumura, Susumu; and Kitagishi, Nozomu, 4,650,988, Cl. 250-216.000.
Suzuki, Takashi; Matsumura, Susumu; Suzuki, Kenji; and Otaka, Keiji, 4,659,917, Cl. 250-201.000.
Tsunekawa, Tokuichi; Sato, Yuichi; Kawabata, Takashi; and Matsumura, Susumu, 4,642,451, Cl. 250-201.000.
Tsunekawa, Tokuichi; Kawabata, Takashi; Sato, Yuichi; and Matsumura, Susumu, 4,644,149, Cl. 250-214.00A.
Tsunekawa, Tokuichi; Sato, Yuichi; Kawabata, Takashi; and Matsumura, Susumu, 4,687,914, Cl. 250-201.000.

Matsumura, Takafumi; and Morishita, Masataka, to Toyo Jozo Company, Ltd. Insecticidal compositions. 4,696,822, 9-29-87, Cl. 424-490.000.

Matsumura, Takao, to NEC Corporation. Method of capless annealing for group III-V compound semiconductor substrate. 4,676,840, 6-30-87, Cl. 148-1.500.

Matsumura, Takashi, to Canon Kabushiki Kaisha. Alignment system allowing alignment when alignment marks are absent. 4,712,016, 12-8-87, Cl. 250-548.000.

Matsumura, Takashi: *See*—
Ayata, Naoki; and Matsumura, Takashi, 4,663,534, Cl. 250-548.000.

Matsumura, Takayoshi: *See*—
Nomura, Noboru; Kugimiya, Koichi; Matsumura, Takayoshi; and Yonezawa, Taketoshi, 4,636,077, Cl. 356-356.000.

Matsumura, Takemasa: *See*—
Hirasawa, Kazushige; Shimizu, Yasuhiro; and Matsumura, Takemasa, 4,683,543, Cl. 364-513.000.

Matsumura, Teruyuki; and Yukutomo, Masashi, to Fanuc Ltd. Electrode retraction control system of electric discharge machine. 4,667,079, 5-19-87, Cl. 219-69.00G.

Matsumura, Teruyuki: *See*—
Kishi, Hajimu; Tanaka, Kunio; and Matsumura, Teruyuki, 4,669,041, Cl. 364-171.000.
Kishi, Hajimu; Matsumura, Teruyuki; and Tanaka, Kunio, 4,703,441, Cl. 364-526.000.
Matsui, Mitsuo; and Matsumura, Teruyuki, 4,675,490, Cl. 219-69.00G.

Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, to Kabushiki Kaisha Kobe Seiko Sho; Idemitsukosan Kabushiki Kaisha; Mitsubishikaseikogyo Kabushiki Kaisha; and Aziasekiyu Kabushiki Kaisha. Method of treating brown coal for liquefaction. 4,714,543, 12-22-87, Cl. 208-412.000.

Matsumura, Toshimi; Hasegawa, Takashi; Hayakawa, Takahiro; Sumitani, Shinya; and Sakakibara, Shuji, to Nippondenso Co., Ltd. Method and apparatus for controlling amount of fuel injected into engine cylinders. 4,667,634, 5-26-87, Cl. 123-357.000.

Matsumura, Toshimi; Osuka, Isao; and Masuda, Akira, to Nippondenso Co., Ltd. Intake air density compensation on the basis of ignition timing for optimal diesel engine control. 4,671,236, 6-9-87, Cl. 123-357.000.

Matsumura, Toshimi; Sumitani, Shinya; Hayakawa, Takahiro; Hasegawa, Takashi; and Sakakibara, Shuji, to Nippondenso Co., Ltd.

Apparatus and method for controlling amount of fuel injected into engine cylinders. 4,705,000, 11-10-87, Cl. 123-357.000.
Matsumura, Toshio; and Oshiage, Katsunori, to Nissan Motor Co., Ltd. Device for controlling continuously variable transmission. 4,660,440, 4-28-87, Cl. 74-866.000.
Matsumura, Toshio; and Oshiage, Katsunori, to Nissan Motor Co., Ltd. Control system for continuously variable transmission. 4,670,843, 6-2-87, Cl. 364-424.100.
Matsumura, Toshio, to Nisson Motor Co., Ltd. Reduction ratio control for continuously variable transmission. 4,713,987, 12-22-87, Cl. 74-866.000.
Matsumura, Tsuneo; Mano, Tsuneo; Yamada, Junzo; and Inoue, Junichi, to Nippon Telegraph and Telephone Corporation. Semiconductor memory. 4,694,428, 9-15-87, Cl. 365-189.000.
Matsumura, Yasuharu: *See*—
Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,643,978, Cl. 436-78.000.
Funahashi, Yoshiko; Matsumura, Yasuharu; Harimaya, Senichi; Kamino, Yoshikazu; and Kitaoka, Hidenari, 4,643,979, Cl. 436-78.000.
Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,681,857, Cl. 436-78.000.
Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,696,795, Cl. 422-56.000.
Funahashi, Yoshiko; Kamino, Yoshikazu; Matsumura, Yasuharu; and Harimaya, Senichi, 4,696,906, Cl. 436-78.000.
Matsumura, Yasuo: *See*—
Shimizu, Isoo; Matsumura, Yasuo; and Inomata, Yoshihisa, 4,659,840, Cl. 548-549.000.
Shimizu, Isoo; Hirano, Ryotaro; Matsumura, Yasuo; Nomura, Hideki; Uchida, Kazumichi; and Sato, Atsushi, 4,694,100, Cl. 560-105.000.
Shimizu, Isoo; Matsumura, Yasuo; and Inomata, Yoshihisa, 4,709,089, Cl. 562-494.000.
Matsumura, Yasushi: *See*—
Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, 4,637,145, Cl. 34-1.000.
Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; Sengoku, Koji; and Nagatome, Yoshiaki, 4,645,681, Cl. 426-634.000.
Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, 4,664,924, Cl. 426-242.000.
Sugisawa, Ko; Matsumura, Yasushi; Sengoku, Koji; and Nagatome, Yoshiaki, 4,678,677, Cl. 426-634.000.
Matsumura, Yoshio: *See*—
Ukachi, Takashi; Besoho, Keiichi; Kumano, Atsushi; Matsumura, Yoshio; and Ansel, Robert E., 4,683,280, Cl. 528-71.000.
Matsumura, Yoshitake: *See*—
Abe, Kunihiro; Matsumura, Yoshitake; and Morozumi, Takurou, 4,644,920, Cl. 123-479.000.
Abe, Kunihiro; Matsumura, Yoshitake; and Morozumi, Takurou, 4,698,765, Cl. 364-431.040.
Matsumuro, Yasuhiko: *See*—
Utsunomiya, Tadashi; Matsumuro, Yasuhiko; Sato, Keishi; Fukahori, Yoshihide; and Ogawa, Masao, 4,674,622, Cl. 198-500.000.
Matsunaga, Fujihisa; Kato, Eiji; Kimura, Tsuyoshi; and Isota, Yoichiro, to Mitsui Petrochemical Industries, Ltd.; and Honshu Chemical Ind. Co., Ltd. Process for producing aminophenols. 4,675,444, 6-23-87, Cl. 564-403.000.
Matsunaga, Fumiaki: *See*—
Noguchi, Yasuo; Idemoto, Morito; and Matsunaga, Fumiaki, 4,662,212, Cl. 73-24.000.
Matsunaga, Haruyuki: *See*—
Kikuchi, Shunichi; Matsunaga, Haruyuki; Katsumi, Hideo; and Katsuyama, Koji, 4,712,158, Cl. 361-385.000.
Matsunaga, Hiroshi; Shimojima, Yoji; and Tokunaga, Ichiro, to Alps Electric Co., Ltd. Method of fabricating rotor of optical rotary encoder. 4,634,862, 1-6-87, Cl. 250-231.0SE.
Matsunaga, Hiroshi; Shimojima, Yoji; Tokunaga, Ichiro; and Obata, Kosei, to Alps Electric Co., Ltd. Light transmission device. 4,684,210, 8-4-87, Cl. 350-96.200.
Matsunaga, Hiroshi; and Morita, Shinichi, to TEAC Corporation. Method of producing a magnetic head. 4,696,099, 9-29-87, Cl. 29-603.000.
Matsunaga, Hiroshi; Tokunaga, Ichiro; Shimojima, Yoji; and Obata, Kosei, to Alps Electric Co., Ltd. Optical switch. 4,705,348, 11-10-87, Cl. 350-96.150.
Matsunaga, Ichiro; and Sugai, Hiroshi, to Sumitomo Metal Mining Company Limited. Method of treating low-level radioactive waste. 4,642,203, 2-10-87, Cl. 252-631.000.
Matsunaga, Isao: *See*—
Hinohara, Yoshikazu; Kaifu, Rokuro; and Matsunaga, Isao, 4,696,919, Cl. 514-62.000.
Miyamoto, Katsuhito; Kubodera, Noboru; Ochi, Kiyoshige; Matsunaga, Isao; and Murayama, Eigoro, 4,666,634, Cl. 260-397.200.
Ochi, Kiyoshige; Hinohara, Yoshikazu; and Matsunaga, Isao, 4,650,888, Cl. 556-177.000.
Tanemura, Mitsuru; Matsunaga, Isao; and Saitou, Masami, 4,698,364, Cl. 514-563.000.
Matsunaga, Katsumi; and Tsuji, Yoshitsugu, to Sumitomo Wiring System, Ltd. Slow blow fuse. 4,646,052, 2-24-87, Cl. 337-166.000.
Matsunaga, Kazuhiro: *See*—
Sasaki, Takashi; and Matsunaga, Kazuhiro, 4,651,223, Cl. 358-284.000.
Matsunaga, Kenichi: *See*—
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,637,998, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,649,133, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,657,895, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,663,312, Cl. 514-42.000.
Yoshikumi, Chikao; Fujii, Takayoshi; Furusho, Takao; Matsunaga, Kenichi; Ohara, Minoru; and Kobayashi, Akira, 4,663,438, Cl. 530-395.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,673,669, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,708,950, Cl. 514-42.000.
Matsunaga, Kenkichi: *See*—
Kato, Tetsuo; Isobe, Susumu; and Matsunaga, Kenkichi, 4,650,645, Cl. 420-111.000.
Matsunaga, Koji; and Hatada, Kenzo, to Matsushita Electric Industrial Co. Ltd. Electrode connection structure of flat device. 4,684,974, 8-4-87, Cl. 357-68.000.
Matsunaga, Kuniyoshi: *See*—
Itoh, Nobuya; and Matsunaga, Kuniyoshi, 4,636,465, Cl. 435-15.000.
Matsunaga, Masaaki: *See*—
Watanabe, Haruo; Tajima, Eiichi; Matsunaga, Masaaki; Hirohara, Toshihide; Imuma, Yoshio; Ando, Naotake; Takahashi, Shigeyuki; and Takahashi, Teruaki, 4,643,526, Cl. 350-332.000.
Matsunaga, Masahiro, to Diesel Kiki Co., Ltd. Fuel injection apparatus for diesel engines. 4,640,241, 2-3-87, Cl. 123-198.00F.
Matsunaga, Masaji: *See*—
Baba, Masatoshi; Tanaka, Norio; Ikai, Takasi; Nawamaki, Tsutomu; and Matsunaga, Masaji, 4,643,757, Cl. 71-86.000.
Matsunaga, Masakazu: *See*—
Kawabe, Ryuichi; Iwasaki, Tetsuo; Kozuru, Hiroshi; Yoda, Masashi; Matsunaga, Masakazu; Takamori, Takesi; and Nakasima, Matao, 4,707,867, Cl. 4-313.000.
Matsunaga, Mitsuru: *See*—
Ando, Noriyoshi; Mikuni, Hajime; Matsunaga, Mitsuru; Horie, Naoki; and Kishigami, Tomohisa, 4,682,228, Cl. 358-161.000.
Matsunaga, Satoshi: *See*—
Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.
Matsunaga, Shigeo: *See*—
Iizuka, Yoshio; Matsunaga, Shigeo; and Ogawa, Satoshi, 4,646,160, Cl. 358-257.000.
Matsunaga, Tsuyoshi: *See*—
Nakaoka, Masaki; Komatsu, Teruo; Goto, Shinji; and Matsunaga, Tsuyoshi, 4,652,149, Cl. 384-100.000.
Matsunaga, Yasuyuki, to Bando Kagaku Kabushiki Kaisha. Endless belt with tension cords and method of making such a belt. 4,648,856, 3-10-87, Cl. 474-237.000.
Matsunaga, Yoshiaki: *See*—
Fukae, Kensuke; Kaieda, Shozo; and Matsunaga, Yoshiaki, 4,664,507, Cl. 355-3.0SH.
Matsunaga, Yoshinori: *See*—
Sako, Yukinobu; Shimoyama, Tatsuya; and Matsunaga, Yoshinori, 4,670,701, Cl. 320-2.000.
Matsunaga, Yoshiyuki, to Kabushiki Kaisha Toshiba. CCD output signal processing circuit for use in an image pick-up device. 4,683,580, 7-28-87, Cl. 377-60.000.
Matsunari, Fumio: *See*—
Sumiyoshi, Masaharu; and Matsunari, Fumio, 4,644,821, Cl. 74-689.000.
Matsunawa, Masahiko, to Konishiroku Photo Industry Co., Ltd. Image processing method. 4,710,822, 12-1-87, Cl. 358-280.000.
Matsune, Fusakiyo: *See*—
Saijo, Akira; Matsune, Fusakiyo; Fujino, Yuji; and Watanabe, Shinji, 4,689,725, Cl. 362-66.000.
Matsuno, Hiromitsu; Murayama, Seiichi; and Ono, Tetsuo, to Hitachi, Ltd. Stain resistant fluorescent lamp. 4,642,512, 2-10-87, Cl. 313-25.000.
Matsuno, Hiromitsu: *See*—
Kato, Yasuo; Ono, Tetsuo; Watanabe, Yoshio; Murayama, Seiichi; Mikoshiba, Shigeo; and Matsuno, Hiromitsu, 4,697,121, Cl. 313-595.000.
Matsuno, Jyunichi: *See*—
Shiraki, Makoto; Yoshida, Masashi; and Matsuno, Jyunichi, 4,667,208, Cl. 346-76.0PH.
Matsuno, Kenji; Yasumuro, Hisakazu; Taira, Kazuo; Imatani, Tsuneo; and Toyoshima, Makoto, to Toyo Seikan Kaisha Limited. Process and apparatus for producing welded can body with an organic coated welded part. 4,685,989, 8-11-87, Cl. 156-244.130.
Matsuno, Kiyotaka; Nagase, Masaomi; and Tsukamoto, Keisuke, to Toyota Jidosha Kabushiki Kaisha. Method of and device for control-

ing fuel injection timing in diesel engine. 4,643,154, 2-17-87, Cl. 123-501.000.

Matsuno, Koichiro: *See*—
Kakii, Toshiaki; Matsuno, Koichiro; Kawada, Osamu; Ito, Ryozo; and Nakamura, Eiji, 4,682,564, Cl. 350-511.000.
Kakii, Toshiaki; Matsuno, Koichiro; Suzuki, Shuzo; Ashiya, Fumihiro; and Ishihara, Koushi, 4,708,433, Cl. 350-96.220.

Matsuno, Mitsuo: *See*—
Yuasa, Hitoshi; and Matsuno, Mitsuo, 4,675,459, Cl. 585-21.000.

Matsuno, Shunji: *See*—
Asai, Koh; Izumisawa, Hiroyuki; Owada, Katsuaki; Kinoshita, Senichiro; and Matsuno, Shunji, 4,646,352, Cl. 382-5.000.

Matsuno, Susumu: *See*—
Itoh, Tsutomu; Tateno, Haruo; Nagasaka, Hideo; Yamamoto, Masahiro; Mitsuyoshi, Yusuke; Matsuno, Susumu; Saitoh, Hiroshi; and Kitoh, Masayuki, 4,670,290, Cl. 427-34.000.

Matsuno, Takeshi, to Seiko Seiki Kabushiki Kaisha. Hermetically sealed magnetic disk cartridge. 4,636,904, 1-13-87, Cl. 360-133.000.

Matsuno, Takumi: *See*—
Yazaki, Takao; Hattori, Satoru; Hattori, Kazuhide; Matsuno, Takumi; Shibuya, Nobuhiro; Hayama, Kazuhide; and Itoh, Isao, 4,659,618, Cl. 428-317.700.

Matsuno, Tatsuji, to Toyo Communication Equipment Co., Ltd. Method and device for measuring insulation deterioration of electric line. 4,638,242, 1-20-87, Cl. 324-51.000.

Matsuno, Tomio: *See*—
Taniguchi, Fumio; and Matsuno, Tomio, 4,705,099, Cl. 165-12.000.

Matsuno, Toshiki: *See*—
Ito, Masashi; Yasuda, Hiroshi; Nakamura, Hiroyuki; and Matsuno, Toshiki, 4,646,283, Cl. 369-256.000.

Matsuno, Yoshio; Miyamoto, Tosho; and Morita, Hideyo, to Nissan Motor Co. Ltd. Glass fiber reinforced propylene-ethylene copolymer base resin composition. 4,707,505, 11-17-87, Cl. 523-203.000.

Matsuno, Yutaka; Hatanaka, Yasunori; Shimizu, Hirokazu; Ishigaki, Masahiro; Harada, Hiroshi; Kawada, Michihiro; and Wakita, Yasukuni, to Toyota Jidosha Kabushiki Kaisha; and Toyo Tire & Rubber Co., Ltd. Boot with bracing boss portion for universal joint. 4,673,188, 6-16-87, Cl. 277-212.0FB.

Matsuno, Yutaka; Kumagai, Tadanobu; and Tanaka, Hatsuyuki, to Toyota Jidosha Kabushiki Kaisha; and Kabushiki Kaisha Mihama Seisakusho. Clamp band. 4,701,982, 10-27-87, Cl. 24-273.000.

Matsunobu, Akira; Horishita, Sumio; and Yamada, Tetsuo, to Toa Company Ltd. Almond nut paste for beverages and desserts. 4,637,374, 1-27-87, Cl. 426-43.000.

Matsunuma, Tamotsu: *See*—
Kawasaki, Kiyohito; Sato, Michitaka; Koseki, Hiroyuki; and Matsunuma, Tamotsu, 4,715,419, Cl. 152-527.000.
Tsukagoshi, Tetsuhito; Matsunuma, Tamotsu; and Maxino, Shigeo, 4,696,335, Cl. 152-535.000.

Matsuo, Hiroshi: *See*—
Horiba, Isao; Iwata, Akira; Suzumura, Nobuo; and Matsuo, Hiroshi, 4,672,651, Cl. 378-62.000.
Koyama, Masahiro; Kinoshita, Kengi; Matsuo, Hiroshi; and Okada, Katsuro, 4,667,584, Cl. 99-280.000.

Matsuo, Hiroyoshi, to Shiba Seisakusho Limited Responsibility Company. Insulator for electric terminal attached to electric wire. 4,693,538, 9-15-87, Cl. 439-460.000.

Matsuo, Hisayuki; Mizuno, Kensaku; and Tanaka, Takaharu, to Suntory Limited. Protease and process for production and use thereof. 4,650,763, 3-17-87, Cl. 435-224.000.

Matsuo, Hisayuki; and Kangawa, Kenji, to Suntory Limited; and Matsuo, Hisayuki. Peptide, and production and use thereof. 4,656,158, 4-7-87, Cl. 514-12.000.

Matsuo, Hisayuki; and Kangawa, Kenji, to Suntory Limited; and Matsuo, Hisayuki. Diuretic peptide, and production and use thereof. 4,657,891, 4-14-87, Cl. 514-11.000.

Matsuo, Hisayuki; Mizuno, Kensaku; and Tanaka, Takaharu, to Suntory Limited. Protease and process for production and use thereof. 4,704,359, 11-3-87, Cl. 435-69.000.

Matsuo, Ichiro: *See*—
Okafuji, Masaharu; Ochi, Yoshinori; Miyake, Atsushi; Noguchi, Junichi; and Matsuo, Ichiro, 4,696,713, Cl. 156-358.000.

Matsuo, Junichi; and Muto, Sadanari, to NGK Insulators, Ltd. Camera for visual inspection. 4,664,520, 5-12-87, Cl. 356-237.000.

Matsuo, Junichi; Sakano, Kozaburo; and Takeda, Isamu, to Toyo Seikan Kaisha, Ltd. Liquid transfusing bottle. 4,760,871, 10-20-87, Cl. 222-107.000.

Matsuo, Junichi: *See*—
Nohara, Shigezo; Sugimoto, Takeshi; Sakano, Kozaburo; Ohkubo, Yoshimichi; and Matsuo, Junichi, 4,649,004, Cl. 264-85.000.

Matsuo, Katsuaki: *See*—
Maki, Hirohisa; and Matsuo, Katsuaki, 4,680,203, Cl. 427-393.600.

Matsuo, Kazuhiko; Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; Shiwata, Akio; Hamada, Yoneichi; Komatsu, Yoshimi; Kondo, Tsuneo; Shirotani, Yusuke; Nakashima, Hirohisa; and Matsuda, Yasuhiro, to Nippon Kokan Kabushiki Kaisha. Arc-heating type extra-furnace refining apparatus. 4,674,101, 6-16-87, Cl. 373-95.000.

Matsuo, Kazuhiko: *See*—
Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; and Matsuo, Kazuhiko, 4,650,517, Cl. 75-10.450.

Matsuo, Kazuhiro: *See*—
Ishikawa, Tadashi; Matsuo, Kazuhiro; and Hoshi, Akimitsu, 4,709,915, Cl. 271-288.000.

Matsuo, Kazumasa; and Nakada, Akio, to Olympus Optical Co., Ltd. Device for diagnosing body cavity interiors with ultrasonic waves. 4,633,882, 1-6-87, Cl. 128-660.000.

Matsuo, Kazumasa, to Olympus Optical Co., Ltd. Automatic exposure control device for endoscope. 4,682,586, 7-28-87, Cl. 128-6.000.

Matsuo, Kazumasa: *See*—
Shishido, Yoshio; Takahashi, Susumu; Matsuo, Kazumasa; Miyazaki, Atsushi; Nishigaki, Shinichi; Kato, Shinichi; Nakamura, Takeaki; and Ishikawa, Akibumi, 4,711,999, Cl. 250-204.000.

Matsuo, Keiko: *See*—
Minagawa, Yukinori; Tanaka, Minoru; Matsuo, Keiko; and Shimizu, Etsuo, 4,689,277, Cl. 428-690.000.

Matsuo, Kenji; Sasaki, Itsuo; Suzuki, Hiroaki; and Kunieda, Mitsuyuki, to Tokyo Shibaura Denki Kabushiki Kaisha. MOS pull-up or pull-down logic circuit having equalized discharge time delays and layout avoiding crossovers. 4,716,305, 12-29-87, Cl. 307-303.000.

Matsuo, Kenji: *See*—
Masuda, Eiji; and Matsuo, Kenji, 4,656,429, Cl. 328-149.000.

Matsuo, Koji, to Matsushita Electric Industrial Co., Ltd. Acoustic lens. 4,651,850, 3-24-87, Cl. 181-176.000.

Matsuo, Koji: *See*—
Kawabuchi, Masami; Matsuo, Koji; Muramatsu, Fumio; Fukumoto, Akira; and Saito, Koetsu, 4,699,150, Cl. 128-660.000.

Matsuo, Kuniyuki: *See*—
Tomita, Tonoya; Hiramoto, Sotozi; Okubo, Takesi; Matsuo, Kuniyuki; Ashihara, Hiromoto; Nakamura, Mitsuo; Takahashi, Tsutomu; Fujino, Motoaki; and Hosaka, Kenji, 4,637,134, Cl. 29-741.000.

Matsuo, Mamoru: *See*—
Taizawa, Kazushige; Sakaki, Hirokazu; Abe, Yuji; Matsuo, Mamoru; Tajiri, Akira; and Tsuchida, Shiu, 4,686,083, Cl. 420-548.000.

Matsuo, Masashi; Yamagishi, Nobuyuki; Noshiro, Makoto; Jitsugiri, Yukio; and Ohnishi, Keiichi, to Asahi Glass Company Ltd. Low reflectance transparent material having antisoiling properties. 4,687,707, 8-18-87, Cl. 428-336.000.

Matsuo, Masataka, to Nippon Steel Corporation. Refractory flame-gunning apparatus. 4,678,120, 7-7-87, Cl. 239-75.000.

Matsuo, Masataka: *See*—
Hagiwara, Takeshi; Matsuo, Masataka; Tamehiro, Tanezoh; Tamehiro, Taizo; and Murakami, Kakuichi, 4,711,916, Cl. 523-223.000.

Matsuo, Masayuki: *See*—
Makimoto, Toshio; Nishimura, Sadahiko; Matsuo, Masayuki; Abiko, Toshio; Ishizaki, Hirohumi; Kanda, Minoru; Nunoya, Hidetsugu; and Komatsu, Mikio, 4,713,670, Cl. 343-700.0MS.
Yabu, Yasuo; Abiko, Toshio; and Matsuo, Masayuki, 4,679,051, Cl. 343-700.0MS.

Matsuo, Michiko, heir: *See*—
Matsuo, Taisuke, deceased; Ochiai, Michihiko; and Kishimoto, Shoji, 4,673,739, Cl. 540-355.000.

Matsuo, Michiko, legal representative: *See*—
Ochiai, Michihiko; Kishimoto, Shoji; and Matsuo, Taisuke, deceased, 4,684,724, Cl. 540-355.000.

Matsuo, Michiko, Takeshi Matsuo, Tazuko Matsuo, heirs: *See*—
Matsuo, Taisuke, deceased; Ochiai, Michihiko; and Kishimoto, Shoji, 4,675,397, Cl. 540-355.000.

Matsuo, Nobutaka; Motoki, Masanobu; Itoh, Yoshitaka; Kanbe, Sadao; and Osafune, Haruo, to Seiko Epson Kabushiki Kaisha. Method of preparing preforms for optical fibers. 4,680,046, 7-14-87, Cl. 65-17.000.

Matsuo, Nobutaka: *See*—
Motoki, Masanobu; Matsuo, Nobutaka; Kanbe, Sadao; Osafune, Haruo; and Itoh, Yoshitaka, 4,680,048, Cl. 65-17.000.

Matsuo, Noritada; Tsushima, Kazunori; Nishida, Sumio; and Yano, Toshihiko, to Sumitomo Chemical Company, Limited. Carboxylic acid esters and insecticides containing them as the active ingredient. 4,714,712, 12-22-87, Cl. 514-531.000.

Matsuo, Noritada: *See*—
Tsushima, Kazunori; Matsuo, Noritada; Kisida, Hiroshi; and Yano, Toshihiko, 4,664,698, Cl. 71-94.000.

Matsuo, Satoshi, to Kabushiki Kaisha Toshiba. Electronic endoscopic system. 4,716,457, 12-29-87, Cl. 358-98.000.

Matsuo, Shigeru; and Murakami, Tomoyoshi, to Idemitsu Kosan Company Limited. Polycyanoaryl ether films and fibers. 4,640,974, 2-3-87, Cl. 528-211.000.

Matsuo, Shigeru; and Murakami, Tomoyoshi, to Idemitsu Kosan Company Limited. Polycyanoaryl ether and method of preparing the same. 4,640,975, 2-3-87, Cl. 528-211.000.

Matsuo, Shigeru; and Murakami, Tomoyoshi, to Idemitsu Kosan Company Limited. Process for preparing polycyanoaryl ether powder. 4,663,427, 5-5-87, Cl. 528-211.000.

Matsuo, Shigeru; Murakami, Tomoyoshi; and Takasawa, Ryuichi, to Idemitsu Kosan Company Limited. Preparation of cyanoaryl ether copolymer. 4,703,104, 10-27-87, Cl. 528-211.000.

Matsuo, Shirou: *See*—
Nakamura, Hiroshi; Matsuo, Shirou; and Kawai, Noriaki, 4,669,442, Cl. 123-571.000.

Matsuo, Shuitsu: *See*—
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, 4,670,320, [illegible] 428-141.000.
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, 4,673,435, Cl. 75-235.000.

Matsuo, Tadaaki: *See*—
Tomita, Masao; Hashima, Akio; Ohta, Haruo; and Matsuo, Tadaaki, 4,686,583, Cl. 358-336.000.

Matsuo, Taisuke: *See*—
Kishimoto, Shoji; Matsuo, Taisuke; and Ochiai, Michihiko, 4,665,067, Cl. 514-210.000.

Matsuo, Taisuke, deceased (by Matsuo, Michiko, heir); Ochiai, Michihiko; and Kishimoto, Shoji, to Takeda Chemical Industries, Ltd. 4-carbamoyloxymethyl-1-sulfo-2-oxoazetidine derivatives and their production. 4,673,739, 6-16-87, Cl. 540-355.000.
Matsuo, Taisuke, deceased (by Matsuo, Michiko, Takeshi Matsuo, Tazuko Matsuo, heirs); Ochiai, Michihiko; and Kishimoto, Shoji, to Takeda Chemical Industries, Ltd. 1-sulfo-2-oxoazetidine derivatives and their production. 4,675,397, 6-23-87, Cl. 540-355.000.
Matsuo, Taisuke, deceased: *See*—
Ochiai, Michihiko; Kishimoto, Shoji; and Matsuo, Taisuke, deceased, 4,684,724, Cl. 540-355.000.
Matsuo, Takahiro: *See*—
Inoue, Takao; Matsuo, Takahiro; and Nakamura, Youichi, 4,643,911, Cl. 427-54.100.
Matsuo, Tamotsu: *See*—
Koishi, Kenji; Matsuo, Tamotsu; and Satoh, Isao, 4,688,203, Cl. 369-48.000.
Koishi, Kenji; and Matsuo, Tamotsu, 4,701,609, Cl. 250-205.000.
Matsuo, Tetsuya: *See*—
Sakata, Yoshitsugu; Shintani, Akinori; Matsuo, Tetsuya; Sugiyama, Haruhiko; and Tokioka, Nobuyuki, 4,634,671, Cl. 435-188.000.
Matsuo, Toshihisa: *See*—
Kishi, Makoto; and Matsuo, Toshihisa, 4,675,811, Cl. 364-200.000.
Matsuo, Yasushi: *See*—
Watanabe, Masakazu; Okuno, Akiyasu; Nozaki, Shunkichi; Matsuo, Yasushi; and Fukuura, Isamu, 4,668,452, Cl. 264-63.000.
Matsuo, Yasutoshi, to Victor Company of Japan, Ltd. Noise reduction circuit for video tape recording and playback apparatus. 4,698,696, 10-6-87, Cl. 358-340.000.
Matsuo, Yoshihiro: *See*—
Hara, Kunitaka; and Matsuo, Yoshihiro, 4,673,032, Cl. 165-44.000.
Matsuo, Yoshikazu: *See*—
Nakamatsu, Toshio; Matsuo, Yoshikazu; and Tezuka, Yasuo, 4,667,022, Cl. 534-638.000.
Nakamatsu, Toshio; Matsuo, Yoshikazu; Nishikuri, Masao; and Imada, Kunihiko, 4,690,686, Cl. 8-638.000.
Matsuo, Yoshitake, to NEC Corporation. Method of establishing communication relay between mobile unit and land site and booster used therefor. 4,677,687, 6-30-87, Cl. 455-10.000.
Matsuo, Youichi, to NEC Corporation. Package having a heat sink suitable for a ceramic substrate. 4,703,339, 10-27-87, Cl. 357-81.000.
Matsuo, Yukito, to Kabushiki Kaisha Toshiba. Apparatus for controlling the running of carriage. 4,665,349, 5-12-87, Cl. 318-135.000.
Matsuo, Yukito, to Kabushiki Kaisha Toshiba. Conveying apparatus. 4,716,346, 12-29-87, Cl. 318-38.000.
Matsuoka, Akio; Takagi, Masashi; Yoshimi, Akiro; and Nishizawa, Kazutoshi, to Nippondenso Co., Ltd. Temperature and pressure monitored refrigeration system. 4,646,535, 3-3-87, Cl. 62-228.500.
Matsuoka, Akio: *See*—
Kohno, Teruhisa; Nokubo, Seiji; and Matsuoka, Akio, 4,673,220, Cl. 303-6.00C.
Nishizawa, Kazutoshi; Takagi, Masashi; and Matsuoka, Akio, 4,715,792, Cl. 417-295.000.
Nishizawa, Kazutoshi; Takagi, Masashi; Matsuoka, Akio; and Nomura, Fuzio, 4,715,800, Cl. 418-69.000.
Matsuoka, Akira: *See*—
Ueno, Yutaka; Tsuchida, Toyohiko; and Matsuoka, Akira, 4,668,154, Cl. 414-607.000.
Matsuoka, Fumio: *See*—
Umemura, Hiroyuki; Matsuda, Kenji; Tezuka, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Matsuoka, Fumio; and Iijima, Hitoshi, 4,709,554, Cl. 62-156.000.
Matsuoka, Genya: *See*—
Okumura, Masahide; Matsuzaka, Takashi; Matsuoka, Genya; and Saitou, Norio, 4,701,620, Cl. 250-398.000.
Matsuoka, Hiroki; Morimura, Atsushi; and Kitamura, Yoshinori, to Matsushita Electric Industrial Co., Ltd. Pixel defect correction apparatus. 4,701,784, 10-20-87, Cl. 358-213.170.
Matsuoka, Hiroki: *See*—
Fujimoto, Makoto; Kitamura, Yoshinori; Morimura, Atsushi; and Matsuoka, Hiroki, 4,680,623, Cl. 358-44.000.
Matsuoka, Hiroshi; and Onoe, Susumu, to Bando Chemical Industries, Ltd. Belt. 4,710,155, 12-1-87, Cl. 474-260.000.
Matsuoka, Hiroshi: *See*—
Higuchi, Yohji; Matsuoka, Hiroshi; and Ishihara, Mikiya, 4,646,888, Cl. 192-8.00C.
Kondoh, Masahiko; and Matsuoka, Hiroshi, 4,708,463, Cl. 355-45.000.
Matsuoka, Hitoshi: *See*—
Taguchi, Toshio; and Matsuoka, Hitoshi, 4,667,946, Cl. 270-52.500.
Matsuoka, Kaoru; Maeoka, Tadashi; Kajino, Jirou; Minabe, Hitoshi; and Tanaka, Tetsurou, to Matsushita Electric Industrial Co., Ltd. Magnetic tape recording and/or reproducing apparatus. 4,704,643, 11-3-87, Cl. 360-71.000.
Matsuoka, Kazuhiko; Usui, Masayuki; Minoura, Kazuo; Baba, Takeshi; and Someya, Atsushi, to Canon Kabushiki Kaisha. Optical element having the function of changing the cross-sectional intensity distribution of a light beam. 4,641,920, 2-10-87, Cl. 350-173.000.
Matsuoka, Kazuhiko: *See*—
Hakamada, Isao; and Matsuoka, Kazuhiko, 4,667,209, Cl. 346-160.000.
Koseki, Yasuo; Ebara, Katsuya; Takahashi, Sankichi; Matsuoka, Kazuhiko; Kurotwa, Minoru; and Yamada, Akira, 4,670,137, Cl. 210-96.100.
Matsuoka, Ketsaku: *See*—
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,388, Cl. 439-449.000.
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,389, Cl. 439-557.000.
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,688,871, Cl. 439-357.000.
Nishino, Yoshimitsu; Tsuruda, Wataru; Koike, Kihachiro; and Matsuoka, Kensaku, 4,678,256, Cl. 439-347.000.
Matsuoka, Mamoru; and Higa, Osamu, to Japan Atomic Energy Research Institute; and Kabushiki Kaisha Toshiba. Acceleration power supply. 4,665,458, 5-12-87, Cl. 361-18.000.
Matsuoka, Masaru: *See*—
Kitao, Teijiro; Matsuoka, Masaru; and Kaneda, Osamu, 4,647,411, Cl. 260-381.000.
Matsuoka, Michihiro: *See*—
Kunikawa, Norihide; Kondo, Tetsuya; Ohba, Yasumasa; and Matsuoka, Michihiro, 4,647,191, Cl. 355-56.000.
Kunikawa, Norihide; Kondo, Tetsuya; Ohba, Yasumasa; and Matsuoka, Michihiro, 4,693,595, Cl. 355-77.000.
Matsuoka, Mikiharu: *See*—
Miyazaki, Yasuko; Matsuoka, Mikiharu; Horyu, Sakae; Kanemoto, Takashi; and Katayama, Hirohiko, 4,651,299, Cl. 364-900.000.
Matsuoka, Nobuyuki; Takasaki, Yo; Minamitsu, Sadao; and Motoyama, Katsumi, to Nec Corporation. Fluorescent display tubes and method of manufacturing the same. 4,661,743, 4-28-87, Cl. 313-496.000.
Matsuoka, Noriyuki, to Yamaichi Electric Mfg. Co., Ltd. IC socket. 4,657,328, 4-14-87, Cl. 339-75.0MP.
Matsuoka, Noriyuki, to Yamaichi Electric Mfg. Co., Ltd. IC package carrier. 4,715,835, 12-29-87, Cl. 439-893.000.
Matsuoka, Saiji: *See*—
Satoh, Susumu; Matsuoka, Saiji; Obara, Takashi; Tsunoyama, Kozo; and Irie, Toshio, 4,676,844, Cl. 148-12.00C.
Matsuoka, Shigeki: *See*—
Takata, Akira; and Matsuoka, Shigeki, 4,700,125, Cl. 323-317.000.
Matsuoka, Shingo: *See*—
Inoi, Takeshi; Akabane, Toshiaki; Kurokawa, Yasuhiro; and Matsuoka, Shingo, 4,642,287, Cl. 435-99.000.
Matsuoka, Shunji: *See*—
Nishiwaki, Yoshikazu; Matsuoka, Shunji; and Okamoto, Kenji, 4,673,241, Cl. 350-3.640.
Tada, Kunio; Nishiwaki, Yoshikazu; and Matsuoka, Shunji, 4,685,763, Cl. 350-96.140.
Matsuoka, Tadashi: *See*—
Ikezaki, Yasuo; Matsuoka, Tadashi; and Mitani, Kazuyuki, 4,712,334, Cl. 51-262.00A.
Matsuoka, Tomizo; Fujita, Yosuke; Kuwata, Jun; Abe, Atsushi; and Nitta, Tsuneharu, to Matsushita Electric Industrial Co., Ltd. Thin-film electroluminescent element. 4,664,985, 5-12-87, Cl. 428-690.000.
Matsuoka, Tomizo; Nishikawa, Masahiro; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, to Matsushita Electric Industrial Co., Ltd. Thin film EL panel. 4,668,582, 5-26-87, Cl. 428-690.000.
Matsuoka, Tomizo: *See*—
Tohda, Takao; Matsuoka, Tomizo; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, 4,634,934, Cl. 315-169.300.
Matsuoka, Toshihiro; and Kikuchi, Toshiyuki, to Mazda Motor Corporation. Control of a vehicle automatic transmission. 4,669,335, 6-2-87, Cl. 74-866.000.
Matsuoka, Toshimitsu: *See*—
Nishii, Shigetoshi; Matsuoka, Toshimitsu; Tsuchida, Toshio; and Hosaka, Atsushi, 4,657,296, Cl. 296-1.00C.
Matsuoka, Tsugufumi: *See*—
Nakashima, Yukio; Haku, Hisao; Watanabe, Kaneo; and Matsuoka, Tsugufumi, 4,705,912, Cl. 136-258.000.
Yamano, Masaru; Kuwano, Yukinori; Nakano, Shoichi; Matsuoka, Tsugufumi; Sakai, Souichi; Yagi, Hirosato; and Okuda, Nobuhiro, 4,670,293, Cl. 427-39.000.
Matsuoka, Tsutomu: *See*—
Nakamura, Saburo; Matsuoka, Tsutomu; Yamauchi, Hirofumi; and Sahara, Masanori, 4,640,252, Cl. 123-446.000.
Yoshioka, Sadashichi; Matsuoka, Tsutomu; Hamada, Shigeki; and Hinatase, Humio, 4,702,218, Cl. 623-559.000.
Matsuoka, Yasushi: *See*—
Masaki, Akio; Moriyasu, Yoshio; Ueda, Kenji; Miyamoto, Kiyoshi; and Matsuoka, Yasushi, 4,704,524, Cl. 250-239.000.
Matsuoka, Yoji: *See*—
Tsujii, Fumio; Matsuoka, Yoji; Endo, Akira; Takezaki, Jiro; and Shirai, Hiroshi, 4,635,202, Cl. 364-449.000.
Tsujii, Fumio; Matsuoka, Yoji; Shibata, Takanori; Endo, Akira; and Shirai, Hiroshi, 4,679,147, Cl. 364-449.000.
Matsuoka, Yoshiharu: *See*—
Suzuki, Hayao; and Matsuoka, Yoshiharu, 4,659,971, Cl. 318-568.000.
Suzuki, Hayao; and Matsuoka, Yoshiharu, 4,694,232, Cl. 318-568.000.
Matsuoka, Yoshinori: *See*—
Watanabe, Masaki; Yamamoto, Hitoshi; Matsuoka, Yoshinori; and Tanaka, Kunihiko, 4,678,053, Cl. 180-210.000.
Matsuoka, Yoshio: *See*—
Ai, Hideo; Ikeda, Akihiko; and Matsuoka, Yoshio, 4,645,823, Cl. 528-336.000.
Ishii, Katsumi; Hirayama, Kanae; Matsuoka, Yoshio; and Takahashi, Kotei, 4,715,466, Cl. 180-233.000.
Matsuoka, Yuuji; Yamataka, Kazunori; and Shimizu, Atsushi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing aromatic compound with functional groups. 4,666,570, 5-19-87, Cl. 204-59.00R.

Matsuoka, Yuzo: *See*—
Iijima, Ikuo; Homma, Koichi; Saiga, Yutaka; Matsuoka, Yuzo; and Matsumoto, Mamoru, 4,663,319, Cl. 514-212.000.

Matsusaka, Yoshihide, to AMP Incorporated. Electrical connector housing. 4,640,566, 2-3-87, Cl. 339-91.00R.

Matsushige, Hiromi: *See*—
Momata, Kazuhiro; Dekura, Yoshinori; Honzawa, Tadashi; and Matsushige, Hiromi, 4,695,909, Cl. 360-122.000.

Matsushima, Akio: *See*—
Shinji, Noshi; and Matsushima, Akio, 4,688,735, Cl. 242-35.50A.

Matsushima, Hiroaki: *See*—
Sakazume, Akio; Yoshikawa, Hiroki; and Matsushima, Hiroaki, 4,638,643, Cl. 62-209.000.

Matsushima, Katsuaki; Fujioka, Yasuhiro; Sasaki, Takeshi; Fujine, Manabu; and Yamamoto, Kouji, to Toyota Jidosha Kabushiki Kaisha. Mounting structure for a roof duct. 4,640,184, 2-3-87, Cl. 98-2.150.

Matsushima, Kazufumi, and Sujaku, Takamichi, to Kabushiki Kaisha Toshiba. Microwave oven with improved cooling arrangement. 4,661,669, 4-28-87, Cl. 219-10.55R.

Matsushima, Kenichi: *See*—
Tanaka, Fumihiro; Shimada, Yoshio; Yamaguchi, Kaneo; Matsushima, Kenichi; and Watanabe, Shinya, 4,713,691, Cl. 358-148.000.
Watanabe, Shinya; Tanaka, Fumihiro; Yamaguchi, Kaneo; Shimada, Yoshio; and Matsushima, Kenichi, 4,713,690, Cl. 358-148.000.

Matsushima Kogyo Kabushiki Kaisha: *See*—
Nakayama, Iwao; Kobayashi, Masatoshi; Ichinose, Kazushige; and Nasuno, Kenji, 4,677,397, Cl. 331-187.000.

Matsushima, Masaaki: *See*—
Ishiwatari, Takahiko; Kishi, Hiroyoshi; Kawade, Hisaaki; Matsushima, Masaaki; Sawamura, Mitsuharu; and Hongau, Kazuoki, 4,658,388, Cl. 369-13.000.
Kato, Hideo; Matsushima, Masaaki; Matsuda, Keiko; and Shibata, Hirofumi, 4,677,042, Cl. 430-5.000.
Kishi, Hiroyoshi; and Matsushima, Masaaki, 4,693,943, Cl. 428-678.000.
Takano, Katsuhiko; Yoshihara, Satoshi; Iijima, Shigeharu; Sasamori, Eizo; Matsushima, Masaaki; and Kishi, Hiroyoshi, 4,710,418, Cl. 428-192.000.

Matsushima, Seiichi; Higashihara, Toshio; Shimizu, Mitsuru; Yoshizawa, Ken; Suzuki, Masahiro; and Sugiyama, Toshimori, to Hitachi Maxell, Ltd. Optical recording disc. 4,710,913, 12-1-87, Cl. 369-280.000.

Matsushima, Seiya: *See*—
Uda, Youichi; Matsushima, Seiya; Saito, Kazuhiko; Yamamoto, Shoji; and Murakami, Kazuhiro, 4,637,238, Cl. 70-456.00R.

Matsushima, Tadashi: *See*—
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,706, Cl. 84-1.010.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,709, Cl. 84-1.190.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,646,611, Cl. 84-1.190.

Matsushima, Yuichi: *See*—
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,648,096, Cl. 372-96.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,653,058, Cl. 372-50.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,653,059, Cl. 372-50.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,660,934, Cl. 350-320.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,665,527, Cl. 372-96.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,701,930, Cl. 372-96.000.
Sakai, Kazuo; Matsushima, Yuichi; Akiba, Shigeyuki; and Utaka, Katsuyuki, 4,682,196, Cl. 357-30.000.

Matsushiro, Hiroyuki: *See*—
Takeda, Fuchio; Matsushiro, Hiroyuki; Kobayashi, Kazuo; and Kaneko, Toshio, 4,710,015, Cl. 355-3.0DD.

Matsushita, Akira, to Kabushiki Kaisha Toshiba. Apparatus for correcting cyclic code data stored in memory and method therefor. 4,701,914, 10-20-87, Cl. 371-13.000.

Matsushita, Akira: *See*—
Takada, Susumu; Sasatani, Takashi; Shindo, Hirohisa; Matsushita, Akira; and Eigyo, Masami, 4,690,930, Cl. 514-293.000.

Matsushita, Eige; and Nagashima, Tetsuya, to Hochiki Corporation. Fire alarm system. 4,644,331, 2-17-87, Cl. 340-587.000.

Matsushita Electric Industrial Co., Ltd.: *See*—
Akiba, Yasuhiro; Namba, Masato; Kikuchi, Seiji; and Soejima, Hidenobu, 4,714,850, Cl. 310-49.00R.
Akiyoshi, Mitsuo; Hirai, Kazumi; Mitsumoto, Yoshio; and Hori, Ichiroh, 4,675,507, Cl. 219-406.000.
Asada, Takafumi; Yoshida, Cyuryo; Shioyama, Tadao; and Kurose, Kazuyoshi, 4,706,143, Cl. 360-107.000.
Asada, Takafumi; Yoshida, Cyuryo; Shioyama, Tadao; and Hosokawa, Yoshiteru, 4,706,144, Cl. 360-107.000.
Asano, Shogo; and Takahashi, Juhei, 4,660,410, Cl. 73-35.000.
Baba, Sueki; Yamamoto, Osamu; Yamashita, Tadaoki; and Tsutsui, Hiroshi, 4,651,005, Cl. 250-360.100.
Deguchi, Takashi; Kadono, Masahiro; and Naka, Shinji, 4,636,928, Cl. 363-41.000.
Doi, Takashi; Shibata, Nobuho; and Ohara, Kenichi, 4,692,676, Cl. 318-269.000.
Endo, Shinichi; Kimata, Kunio; Shimoda, Hideho; and Ogita, Kunio, 4,656,334, Cl. 219-212.000.
Endo, Shinichi; Shimoda, Hideho; and Kimata, Kunio, 4,658,119, Cl. 219-492.000.
Fujimoto, Makoto; Kitamura, Yoshinori; Morimura, Atsushi; and Matsuoka, Hiroki, 4,680,623, Cl. 358-44.000.
Fujisige, Akihito, 4,667,224, Cl. 358-29.000.
Fujita, Masaaki; Sasaki, Mikio; Goto, Teruo; and Yamaguchi, Namio, 4,644,349, Cl. 340-825.250.
Fujita, Toshihiro; Ishizuka, Satoshi; Fujito, Katsuyuki; and Sato, Hisanao, 4,677,630, Cl. 372-32.000.
Fujiwara, Makoto; Yoneda, Hajime; and Okamoto, Masafumi, 4,709,303, Cl. 361-433.000.
Fukukita, Hiroshi; Tachita, Ryoeun; Fukaya, Kuniaki; and Yano, Tsutomu, 4,641,260, Cl. 364-737.000.
Fukunaga, Masao; and Nonoguchi, Hiroshi, 4,691,870, Cl. 241-36.000.
Fukushima, Yasuhisa; Maruyama, Masuo; and Miyazaki, Benichi, 4,680,662, Cl. 360-133.000.
Funakoshi, Yasutomo; Miyazaki, Masamitu; Sakairi, Tadashi; and Suzuki, Kozo, 4,654,693, Cl. 357-74.000.
Furumoto, Mitsunobu; and Taniguchi, Hiroshi, 4,656,536, Cl. 360-72.200.
Furuya, Nobuaki; Nakayama, Yasuhiko; and Watanabe, Yoshio, 4,672,494, Cl. 360-125.000.
Gotou, Makoto, 4,692,645, Cl. 310-184.000.
Gotou, Makoto, 4,692,646, Cl. 310-184.000.
Gotou, Makoto; Mitani, Hiroshi; and Igarashi, Yoshiaki, 4,713,697, Cl. 358-222.000.
Hamada, Ken; Wada, Masaru; and Itoh, Kunio, 4,716,571, Cl. 372-48.000.
Hamada, Kiyoshi; Watanabe, Masanori; Nonomura, Kinzo; Katsuyama, Minoru; and Hirano, Riyuma, 4,651,058, Cl. 315-98.000.
Hamada, Taizo, 4,652,959, Cl. 360-130.300.
Hasegawa, Makoto; and Yamashita, Sadahiko, 4,651,344, Cl. 455-325.000.
Hata, Kanji; Itemadani, Eiji; and Maruyama, Masahiro, 4,708,232, Cl. 198-346.100.
Hatada, Kenzo, 4,693,770, Cl. 156-151.000.
Hayashi, Seizo; Okano, Kenji; and Hayashi, Nobuhiro, 4,637,092, Cl. 15-319.000.
Hirai, Kazumi; Akiyoshi, Mitsuo; Nakano, Chikao; Watanabe, Kenji; and Kodama, Satoru, 4,673,800, Cl. 219-518.000.
Hirasawa, Kazushige, 4,647,754, Cl. 219-130.210.
Hirasawa, Kazushige; Shimizu, Yasuhiro; and Matsumura, Takemasa, 4,683,543, Cl. 364-513.000.
Hirayama, Noriyuki; Ohshima, Masaaki; Takenaka, Naoki; and Kino, Yoshihiro, 4,661,960, Cl. 372-45.000.
Hitotsumachi, Shuzo, 4,648,118, Cl. 381-94.000.
Honjo, Masahiro; and Hashima, Akio, 4,691,247, Cl. 358-319.000.
Honjo, Masahiro; and Hashima, Akio, 4,695,900, Cl. 358-310.000.
Honjo, Masahiro, 4,703,343, Cl. 358-36.000.
Horiike, Yoshio; Nagaishi, Yasuo; and Fukui, Kiyotake, 4,660,215, Cl. 375-48.000.
Ibata, Akihiko; and Sakamoto, Yoichi, 4,648,915, Cl. 148-101.000.
Iida, Kouprou; Yoshioka, Yasuo; Ogawa, Hiroshi; Haruno, Kiyoshi; and Ohigashi, Tsugio, 4,682,768, Cl. 271-3.100.
Imuma, Hiroshi; Sakaguchi, Shuichi; and Suzuki, Takashi, 4,644,419, Cl. 360-46.000.
Ikedo, Masaru; Watari, Masafumi; Hayashi, Yoshiaki; Yamamoto, Osamu; and Tsutsui, Hiroshi, 4,678,275, Cl. 350-96.340.
Ikemoto, Yoshihiro; Kataoka, Jiro; Otsuki, Toshinori; and Nakamura, Takuji, 4,701,810, Cl. 358-296.000.
Imai, Akihiro; Shimizu, Tokihiko; and Taguchi, Nobuyoshi, 4,684,561, Cl. 428-141.000.
Imanishi, Kiyokazu; Naka, Hiroyuki; Sakurai, Yasuo; Ichiyanagi, Takashi; and Kishimoto, Masaru, 4,641,214, Cl. 360-130.240.
Inaji, Toshio; Okamoto, Hiroshi; and Yokobori, Nobuyoshi, 4,695,907, Cl. 360-107.000.
Inoue, Takao; Matsuo, Takahiro; and Nakamura, Youichi, 4,643,911, Cl. 427-54.100.
Inui, Isao; Hosaka, Masato; Nakamoto, Mitsuyoshi; and Okamoto, Kenji, 4,639,208, Cl. 431-1.000.
Ishikawa, Kiyotsugu; Takamura, Tohru; Sone, Yoshiaki; Hashimoto, Susumu; and Hiramoto, Masao, 4,670,777, Cl. 358-48.000.
Ishimura, Yohzoh; Nakano, Okihiko; Matsukura, Toyotsugu; and Kanaoka, Toshiaki, 4,603,508, Cl. 219-10.55C.
Ito, Akio; Mochizuki, Hideaki; Sunohara, Masaaki; and Tamura, Tooru, 4,701,770, Cl. 346-135.100.
Ito, Masashi; Yasuda, Hiroshi; Nakamura, Hiroyuki; and Matsuno, Toshiki, 4,646,283, Cl. 369-256.000.
Jiko, Hideyasu; and Hayashi, Tomoyuki, 4,716,378, Cl. 330-108.000.
Juri, Tatsuro; Iketani, Akira; Yamamitsu, Chojuro; and Ide, Akifumi, 4,691,329, Cl. 375-122.000.
Kabasawa, Satoshi; Hsieh, Ming-Shiun; Chang, Shih-Ming; and Lin, Chun-Hong, 4,715,004, Cl. 364-513.500.
Kaiwa, Ryoichi; Suganuma, Yuichiro; and Yasuho, Takeo, 4,670,633, Cl. 200-314.000.
Kaminaka, Nobuyuki; and Yoshida, Yasuo, 4,716,484, Cl. 360-125.000.
Kamiwada, Minoru; Saruwatari, Kazuyuki; Shimada, Kazuaki; and Higashizima, Harumi, 4,680,116, Cl. 210-282.000.

Kanai, Kenji; Kaminaka, Nobuyuki; Nomura, Noboru; and Omata, Yuuji, 4,672,496, Cl. 360-126.000.
Kanehisa, Takashi; and Yokomakura, Mitsunori, 4,642,517, Cl. 313-495.000.
Kanno, Masashi; Komori, Katsufumi; Tatekawa, Masaichirou; Miwa, Kiyohito; and Takaoka, Iwane, 4,707,109, Cl. 355-7.000.
Katayama, Akifumi; Mori, Keijirou; and Ueda, Satoshi, 4,672,560, Cl. 364-556.000.
Katayama, Akifumi; Mori, Keijirou; Ueda, Satoshi; and Suwa, Katsuhiko, 4,672,561, Cl. 364-556.000.
Kato, Makoto; and Togashi, Mitsuo, 4,676,596, Cl. 350-167.000.
Kato, Shiro; and Hashimoto, Kiyokazu, 4,672,426, Cl. 358-12.000.
Katou, Akito, 4,712,080, Cl. 335-213.000.
Kawabata, Toshiharu; Koike, Susumu; Matsuda, Toshio; and Iwasa, Hitoo, 4,671,829, Cl. 148-171.000.
Kawabuchi, Masami, 4,677,853, Cl. 73-644.000.
Kawabuchi, Masami; Matsuo, Koji; Muramatsu, Fumio; Fukumoto, Akira; and Saito, Koetsu, 4,699,150, Cl. 128-660.000.
Kawaguchi, Takao; Adachi, Hideaki; Setsune, Kentaro; Ohji, Kenzo; and Wasa, Kiyotaka, 4,715,680, Cl. 350-96.340.
Kawakita, Kenji; Nomura, Noboru; and Takemoto, Toyoki, 4,685,193, Cl. 437-73.000.
Kawasaki, Kazuhisa; Ujino, Yoshiyuki; Tsuji, Takahisa; and Saeki, Tsuneo, 4,656,763, Cl. 38-77.830.
Kazumi, Hirai, 4,638,137, Cl. 219-10.55B.
Kenmochi, Kazuei; Sakairi, Tadashi; and Miyazaki, Masamitsu, 4,657,714, Cl. 264-1.300.
Kenmochi, Kazuei, 4,663,824, Cl. 29-570.000.
Kidouchi, Yasuo; and Yonekubo, Hiroaki, 4,711,392, Cl. 236-12.120.
Kikuchi, Isako; Ota, Isao; Takeda, Mamoru; and Kiyokawa, Seiji, 4,704,002, Cl. 350-334.000.
Kikuchi, Kazuya; Komeda, Tadao; and Fujita, Tsutomu, 4,693,782, Cl. 156-653.000.
Kikuchi, Yoichi; and Kobayashi, Kenji, 4,678,725, Cl. 429-53.000.
Kimura, Suzushi; and Yamaguchi, Hiroshi, 4,671,112, Cl. 73-505.000.
Kishimoto, Yoshio; and Shinoda, Hideho, 4,672,176, Cl. 219-212.000.
Kishimoto, Yoshio, 4,698,488, Cl. 219-549.000.
Kobo, Kazuo; Morotomi, Noriaki; and Sato, Takeshi, 4,673,979, Cl. 358-142.000.
Koike, Kiichi; Suzuki, Yoshie; Yoshinaka, Minoru; Okabe, Mitsuo; and Tanaka, Makoto, 4,664,994, Cl. 429-163.000.
Koishi, Kenji; Matsuo, Tamotsu; and Satoh, Isao, 4,688,203, Cl. 369-48.000.
Koishi, Kenji; and Matsuo, Tamotsu, 4,701,609, Cl. 250-205.000.
Kojima, Koichi; Jujo, Akihiro; Okabayashi, Masanori; Shimatani, Ryoichi; Toyama, Kenji; and Kanzaki, Nobuyoshi, 4,681,672, Cl. 204-129.400.
Koyama, Masahiro; Kinoshita, Kengi; Matsuo, Hiroshi; and Okada, Katsuro, 4,667,584, Cl. 99-280.000.
Kudoh, Shinichi; Kabeshita, Akira; and Murakami, Syuichi, 4,656,048, Cl. 427-8.000.
Kunugihara, Hiromu; Shimatani, Ryoichi; Kitamura, Satoru; Okamura, Kazuo; and Kanzaki, Nobuyoshi, 4,671,858, Cl. 204-129.750.
Kuramoto, Yukimasa; and Tanaka, Eiichiro, 4,657,374, Cl. 355-3.00R.
Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,660,961, Cl. 355-4.000.
Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,697,913, Cl. 355-3.00R.
Kurihayashi, Kiyoshi; Sakai, Masayuki; Monji, Hideto; Aoki, Masaki; Okinaka, Hideyuki; and Torii, Hideo, 4,685,948, Cl. 65-26.000.
Kuriyama, Keiichi; Miura, Kenichiro; and Deguchi, Takashi, 4,709,292, Cl. 361-22.000.
Kurokawa, Hideo; Mitani, Tsutomu; and Yonezawa, Taketoshi, 4,645,977, Cl. 315-111.210.
Kusuda, Takao; Mihara, Toshihiro; Yonemura, Masaaki; and Kuwano, Satoshi, 4,652,286, Cl. 55-523.000.
Kusunoki, Shigeru; and Machara, Naoyoshi, 4,672,180, Cl. 219-494.000.
Kuwajima, Hideki, 4,661,864, Cl. 360-85.000.
Kyoden, Hiroshi; Endo, Yasuhiro; Fujiwara, Teiichi; Mimura, Toshisada; Nishikawa, Kihachiro; and Nishizawa, Shoichi, 4,636,969, Cl. 364-560.000.
Maeda, Kazuya; and Ishihara, Yasusuke, 4,639,004, Cl. 280-5.320.
Maeda, Yoshinobu; Fujiwara, Kohji; and Naito, Takao, 4,638,985, Cl. 269-244.000.
Maeda, Yukio; and Kudo, Shinichi, 4,664,945, Cl. 427-96.000.
Maeda, Yukio; Kitayama, Yoshifumi; and Murakami, Shuichi, 4,676,864, Cl. 156-633.000.
Maeda, Yukio; Kudo, Shinichi; and Saeki, Keiji, 4,692,351, Cl. 427-196.000.
Machara, Naoyoshi; Matsumoto, Takahiro; Kusunoki, Shigeru; Sakamoto, Kazuho; and Mihara, Makoto, 4,704,674, Cl. 363-131.000.
Maki, Yohji; and Umezawa, Norio, 4,638,203, Cl. 310-239.000.
Makino, Masashi; Nakada, Kunio; Muraginhi, Isao; and Nishitani, Syozi, 4,635,403, Cl. 51-94.00R.
Makino, Masashi; Nakada, Kunio; Muraginhi, Isao; and Nishitani, Syozi, 4,651,471, Cl. 51-3.000.
Maruno, Susumu; Nakata, Shinobu; Nagahiro, Michinori; and Minamide, Seiko, 4,712,930, Cl. 400-120.000.
Maruyama, Teruo; and Sekiguchi, Takuya, 4,646,621, Cl. 91-375.00R.
Maruyama, Yoshio; and Kabashima, Shoshi, 4,681,528, Cl. 425-562.000.
Masho, Yukio; Kakimi, Shigeru; Ueki, Toru; Miyauchi, Satoshi; Ohigashi, Tugio; and Kurohata, Hitoshi, 4,705,154, Cl. 194-3,19.000.
Matsumoto, Tokikazu; and Igata, Kouichi, 4,635,137, Cl. 360-10.200.
Matsumoto, Tokikazu, 4,670,776, Cl. 358-40.000.
Matsumoto, Tokikazu; Nakagawa, Yukio; and Uchiyama, Shinichi, 4,673,970, Cl. 358-27.000.
Matsumoto, Tokikazu, 4,695,877, Cl. 358-36.000.
Matsunaga, Koji; and Hatada, Kenzo, 4,684,974, Cl. 357-68.000.
Matsuo, Koji, 4,651,850, Cl. 181-176.000.
Matsuoka, Hiroki; Morimura, Atsushi; and Kitamura, Yoshinori, 4,701,784, Cl. 358-213.170.
Matsuoka, Kaoru; Maeoka, Tadashi; Kajino, Jirou; Minabe, Hitoshi; and Tanaka, Tetsurou, 4,704,643, Cl. 360-71.000.
Matsuoka, Tomizo; Fujita, Yosuke; Kuwata, Jun; Abe, Atsushi; and Nitta, Tsuneharu, 4,664,985, Cl. 428-690.000.
Matsuoka, Tomizo; Nishikawa, Masahiro; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, 4,668,582, Cl. 428-690.000.
Matsushita, Seiji; Fujishima, Akira; Arika, Isao; and Nakamura, Joji, 4,675,634, Cl. 338-15.000.
Mekata, Tsuyoshi; Saka, Hiroshi; and Tanaka, Toshihide, 4,707,669, Cl. 331-99.000.
Mifune, Hideo, 4,662,353, Cl. 126-350.00B.
Minakuchi, Hiroshi; Kunihira, Tadashi; and Igarashi, Yoshiaki, 4,636,696, Cl. 318-327.000.
Misawa, Yoshihiko; Ishii, Tatra; and Maeda, Yoshinobu, 4,696,424, Cl. 227-84.000.
Miura, Masayoshi, 4,665,435, Cl. 358-80.000.
Miura, Masayoshi; and Iwasawa, Toshiyuki, 4,684,957, Cl. 346-1.100.
Miyagawa, Junichi; Kamo, Tetuo; and Okada, Kazuichi, 4,665,893, Cl. 126-299.00D.
Miyata, Yutaka; Chikamura, Takao; and Fujiwara, Shinji, 4,670,766, Cl. 357-30.000.
Miyatake, Yoshito; and Wagamitsu, Yasuhiko, 4,673,841, Cl. 313-35.000.
Mori, Hitoshi, 4,639,777, Cl. 358-120.000.
Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, 4,635,231, Cl. 365-190.000.
Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, 4,635,292, Cl. 382-41.000.
Morimoto, Takeshi; Sekimoto, Kunio; and Asada, Seigo, 4,672,470, Cl. 358-323.000.
Morita, Yasuyuki; Takahashi, Hidemi; and Sano, Reiji, 4,672,621, Cl. 372-58.000.
Moriya, Mitsuro; Shiragami, Kazuharu; and Yamaguchi, Hiroyuki, 4,692,915, Cl. 369-53.000.
Mukai, Toshiharu; and Tanaka, Shinichi, 4,688,202, Cl. 369-44.000.
Muraoka, Hiroaki; Sasaki, Seishi; Takahashi, Ken; and Youda, Hiroshi, 4,700,252, Cl. 360-113.000.
Murata, Yoshitaka; Hatano, Tsuyoshi; and Ohkubo, Hideo, 4,638,526, Cl. 15-367.000.
Nagai, Kiyotaka; Suzuki, Ryoji; and Yamada, Akitoshi, 4,672,665, Cl. 379-411.000.
Nagaoka, Yoshitomi; Matsuda, Yoshiteru; Hirao, Yoshiaki; Koga, Ryuichiro; and Asakura, Hiroyuki, 4,673,274, Cl. 354-403.000.
Nakada, Seiichi; Hanada, Tool; and Watanabe, Masao, 4,640,028, Cl. 38-77.700.
Nakagawa, Tohru; Sakurai, Yasuo; and Makizawa, Yoshiaki, 4,648,785, Cl. 414-744.00A.
Nakajima, Yasuo; Yamamoto, Yoshiharu; Miyatake, Yoshito; Nagaoka, Yoshitomi; and Ono, Shusuke, 4,690,515, Cl. 350-432.000.
Nakamura, Junji; Iida, Norikazu; and Ogino, Nobukuni, 4,644,446, Cl. 361-433.000.
Nakamura, Takuji; Otsuki, Toshinori; Nagasawa, Takeshi; and Ikemoto, Yoshihiro, 4,667,252, Cl. 358-286.000.
Nakamura, Toshio; Tamura, Tadashi; Kimura, Naomi; and Urata, Susumu, 4,706,555, Cl. 99-283.000.
Nakano, Akihiko; Hibino, Takeshi; Takata, Hajime; and Yoshida, Manabu, 4,705,911, Cl. 136-251.000.
Nakasho, Tsugutada, 4,672,475, Cl. 360-70.000.
Nakatani, Seiichi; Yuhaku, Satoru; Okinaka, Hideyuki; Ishida, Toru; Makino, Osamu; and Kikuchi, Tatsuro, 4,714,570, Cl. 252-518.000.
Nakayama, Nobuo; Nagamine, Kenzi; Ueda, Kazuya; and Saito, Fuminari, 4,703,186, Cl. 250-566.000.
Natsumeda, Takeshi; Nawa, Motoyuki; and Sugawara, Norio, 4,677,904, Cl. 98-38.100.
Neki, Shigeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Takashi, 4,676,180, Cl. 112-277.000.
Neki, Shigeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Takashi, 4,691,653, Cl. 112-275.000.
Neki, Shigeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Takashi, 4,710,688, Cl. 318-603.000.
Nikaido, Masataka; and Matsuda, Sakurako, 4,681,007, Cl. 84-1.100.
Nishimichi, Yoshito; Uya, Masaru; and Kaneko, Katsuyuki, 4,709,173, Cl. 307-243.000.
Nishimura, Shigeru; and Kuroda, Toshihisa, 4,713,685, Cl. 358-103.000.
Nishimura, Tsutomu; Nakatani, Seiichi; Yuhaku, Satoru; and Ishida, Toru, 4,695,403, Cl. 252-513.000.

hino, Atsushi; Ikeda, Masaki; Watanabe, Yoshihiro; and Hiraka, Masahiro, 4,694,573, Cl. 29-846.09.
hino, Yasukazu; and Sasanuma, Hiroshi, 4,670,856, Cl. 364-900.000.
da, Kazushi; Komatsu, Moriyuki; and Mitsunaga, Hiroshi, 640,340, Cl. 165-41.000.
mura, Noboru; Kugimiya, Koichi; Matsumura, Takayoshi; and Yonezawa, Taketoshi, 4,636,077, Cl. 356-356.000.
mura, Noboru; and Shimeki, Yasuharu, 4,660,113, Cl. 360-113.000.
zoe, Toshiro; and Yamashita, Akira, 4,638,358, Cl. 358-147.000.
zoe, Toshiro; Yamashita, Akira; Hirashima, Masayoshi; and Fukuda, Shin, 4,667,235, Cl. 358-147.000.
wa, Kazufumi, 4,673,474, Cl. 204-157.640.
wa, Kazufumi, 4,698,113, Cl. 156-275.700.
wa, Kazufumi, 4,707,433, Cl. 430-289.000.
wa, Kazufumi, 4,715,929, Cl. 156-643.000.
wa, Kazufumi, 4,716,441, Cl. 355-30.000.
wa, Koichi; Uwano, Tomoki; Kosugi, Hiroaki; and Yamamoto, Junko, 4,700,194, Cl. 343-700.0MS.
no, Yoshio; Shimomoto, Takeshi; and Hiraoka, Osamu, 665,324, Cl. 307-126.000.
ra, Shunji; Yoshida, Tomio; Satoh, Isao; and Koishi, Kenji, 689,780, Cl. 369-44.000.
hima, Masaaki; and Matsuki, Michio, 4,644,552, Cl. 372-45.000.
a, Yoshio; Chikamura, Takao; Miyata, Yutaka; Yano, Kohsaku; and Fujiwara, Shinji, 4,661,830, Cl. 357-30.000.
, Masahiro, 4,701,252, Cl. 204-402.000.
, Shunzo; and Matsui, Futoshi, 4,652,947, Cl. 360-85.000.
no, Keisuke, 4,703,320, Cl. 340-731.000.
ori, Hideki; Asada, Kazuhiko; and Kominami, Hideyuki, 652,713, Cl. 219-10.770.
oto, Noriaki, 4,709,406, Cl. 455-208.000.
shi, Hiroshi; Esaki, Hiroshi; and Kohashi, Tadao, 4,670,307, Cl. 27-261.000.
ubo, Hiroaki, 4,697,943, Cl. 400-568.000.
ubo, Hiroaki, 4,710,046, Cl. 400-556.200.
ma, Mitsuaki; and Yamaguchi, Kazufumi, 4,638,362, Cl. 58-213.000.
ki, Tatsuo; Shimano, Akio; Aoki, Hiromitsu; and Aoki, Ikuko, 712,023, Cl. 307-450.000.
ki, Yukinori; and Yamanouchi, Shuji, 4,658,654, Cl. 73-861.050.
wa, Kunichi; Goto, Yasuhiro; Nakase, Hiromi; and Yukino, Shinya, 4,644,157, Cl. 250-231.0SE.
i, Kiyoshi; and Watanabe, Sadao, 4,651,049, Cl. 313-355.000.
awa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, 4,638,180, Cl. 307-219.100.
awa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, 4,679,003, Cl. 331-1.00A.
o, Fuminari; Kajino, Jirou; and Kanchiku, Hiroshi, 4,672,476, Cl. 360-85.000.
a, Hiroshi; and Tanaka, Toshihide, 4,648,128, Cl. 455-301.000.
gato, Yukuo; Yonemochi, Katsutoshi; Kawata, Koichi; and Asaki, Takeshi, 4,691,998, Cl. 350-616.000.
i, Hiroaki, 4,673,954, Cl. 346-139.00R.
i, Junichi; Itoh, Fujio; and Watanabe, Seiichi, 4,656,533, Cl. 360-65.000.
kima, Hiroshi, 4,670,972, Cl. 29-603.000.
moto, Hiroshi; Torigoe, Toshihiro; and Yamaguchi, Tadashi, 716,291, Cl. 250-318.000.
moto, Kazuho; and Mihara, Makoto, 4,672,181, Cl. 219-518.000.
moto, Kazuho, 4,703,151, Cl. 219-518.000.
shita, Seiji; Sato, Takeshi; Nagai, Hiroyuki; Kubo, Kazuhiko; and Usui, Akira, 4,677,692, Cl. 455-319.000.
, Yukinobu; Shimoyama, Tatsuya; and Matsunaga, Yoshinori, 670,701, Cl. 320-2.000.
, Kiyoshi, 4,714,416, Cl. 418-63.000.
i, Yoichi; and Kubo, Minoru, 4,702,781, Cl. 437-129.000.
, Takeo, 4,654,498, Cl. 219-69.00E.
, Toshiaki; Mori, Hisako; Horio, Yashuhiko; Tabuchi, Kastumi; Matsumoto, Nobuo; and Nishii, Kazuhiko, 4,712,160, Cl. 361-388.000.
, Makito; Misawa, Yoshihiko; Maeda, Yoshinobu; and Fukumoto, Kengi, 4,706,379, Cl. 29-740.000.
aike, Narito; Kikuya, Satoshi; and Minamide, Seiko, 4,648,000, Cl. 360-132.000.
ata, Jun; and Serizawa, Hiroyuki, 4,710,936, Cl. 372-45.000.
ata, Nobuho; Yasunobu, Isamu; Neki, Shigeo; Ohara, Kenichi; and Dohi, Takashi, 4,682,095, Cl. 318-778.000.
namoto, Hideki; Miyazaki, Yoshio; Aoshima, Yoichi; Tsunetsugu, Tsuyoshi; Nagara, Hisao; Kuwae, Yoshiteru; and Shiono, Kazushi, 4,652,968, Cl. 361-319.000.
nzu, Hirokazu; Itoh, Kunio; Sugino, Takashi; Wada, Masaru; Teramoto, Iwao; and Fujimoto, Kazuo, 4,651,322, Cl. 372-45.000.
, Kazuo; and Nagano, Hiroyuki, 4,705,999, Cl. 318-568.000.
mura, Tatuo; Satoh, Isao; Ichinose, Makoto; and Kuroki, Kazuru, 4,653,051, Cl. 371-37.000.
ta, Ryuji; Honda, Kazuyoshi; Nishida, Hiroshi; and Noda, Ryoji, 4,687,712, Cl. 428-611.000.
iyama, Yoshiyuki; Aoki, Shinichiro; and Morita, Yasuyuki, 637,256, Cl. 73-633.000.
uki, Jiro; Nishino, Atsushi; Hosaka, Masato; Ono, Yukiyoshi; and Takeuchi, Yasuhiro, 4,676,737, Cl. 431-328.000.
Suzuki, Takashi; Hibino, Kunio; Murai, Mikio; Kawase, Shigeki; Shimohara, Koichi; and Nouchi, Norimoto, 4,645,703, Cl. 428-141.000.
Suzuki, Takashi; Odagiri, Masaru; Kai, Yoshiaki; Kitamaki, Hisayo; and Tomago, Akio, 4,647,507, Cl. 428-421.000.
Suzuki, Yoshie; Koike, Kiichi; Kadowaki, Minoru; and Yoshinaka, Minoru, 4,659,636, Cl. 429-54.000.
Tachita, Ryobun; and Teranishi, Akio, 4,696,058, Cl. 455-277.000.
Tada, Haruo; and Nakada, Akiyoshi, 4,697,978, Cl. 414-729.000.
Takagi, Yoshiyuki; and Kaneaki, Tetsuhiko, 4,709,611, Cl. 84-1.220.
Takagi, Yuuji; Satoh, Isao; and Sugimura, Tatsuo, 4,695,993, Cl. 369-54.000.
Takahashi, Akira; Kudara, Yoshifumi; Shoji, Sadao; and Nakatsuka, Saburo, 4,662,533, Cl. 220-209.000.
Takahashi, Hiroshi; Uwano, Tomoki; Machida, Takashi; and Kitamura, Hirokazu, 4,656,441, Cl. 333-33.000.
Takahashi, Ken; Youda, Hiroshi; Sasaki, Seishi; and Kanai, Kenji, 4,654,739, Cl. 360-113.000.
Takahashi, Shigeki, 4,659,159, Cl. 339-75.00M.
Takahashi, Shokichi, 4,672,485, Cl. 360-96.500.
Takano, Hiroji, 4,714,957, Cl. 358-93.000.
Takemura, Yoshinari; Ohara, Kazuaki; and Nagashima, Michiyoshi, 4,712,204, Cl. 369-32.000.
Takubo, Yoneharu; Horibe, Yasutaka; and Yamanishi, Nobue, 4,697,889, Cl. 350-392.000.
Tanabe, Minoru; and Hirota, Masatoshi, 4,668,963, Cl. 346-139.00C.
Tanaka, Eiichi; Furumai, Koro; and Kikutani, Fumitaka, 4,678,428, Cl. 431-76.000.
Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Aoyama, Shigeo; Tanno, Satoshi; and Kato, Kaoru, 4,691,767, Cl. 165-151.000.
Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Ando, Toshiaki; Nishiwaki, Humitoshi; and Aoyama, Shigeo, 4,715,437, Cl. 165-151.000.
Tanaka, Toshihide; Saka, Hiroshi; Yoshimura, Yoshikazu; and Shiomi, Yasuhumi, 4,679,249, Cl. 455-328.000.
Tohda, Takao; Matsuoka, Tomizo; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, 4,634,934, Cl. 315-169.300.
Tomi, Kaoru; and Hamada, Kiyoshi, 4,694,225, Cl. 315-366.000.
Tomi, Kaoru; Miyama, Hiroshi; Kawauchi, Yoshikazu; and Nishida, Jun, 4,703,231, Cl. 315-366.000.
Tomita, Kazuyuki; and Tanno, Masuo, 4,678,539, Cl. 156-643.000.
Tomita, Masao; and Hashima, Akio, 4,677,487, Cl. 358-167.000.
Tomita, Masao, 4,679,097, Cl. 358-328.000.
Tomita, Masao; Hashima, Akio; Ohta, Haruo; and Matsuo, Tadaaki, 4,686,583, Cl. 358-336.000.
Tomita, Masao; and Hashima, Akio, 4,698,694, Cl. 358-326.000.
Tsuchiya, Hiroyoshi; Kurosawa, Toshiharu; Otsuka, Hirotaka; Maruyama, Yuuji; and Nakazato, Katsuo, 4,692,811, Cl. 358-282.000.
Tsuchiya, Sohji; Fujikawa, Wataru; Kojima, Toshikuni; Higuchi, Sadashi; and Yamashita, Akio, 4,660,939, Cl. 350-357.000.
Tsuchiya, Tatsuo; and Hozumi, Kazuhiro, 4,693,454, Cl. 267-226.000.
Tsuji, Kazuhiko; Yamaguchi, Setji; and Ichinohe, Eisuke, 4,672,584, Cl. 365-226.000.
Ueda, Shigeki; Hatagawa, Toyotsugu; and Kasai, Isao, 4,686,356, Cl. 219-482.000.
Ueda, Shuji; Nakada, Kunio; Fujino, Kazuhiko; Saeki, Hiroshi; and Fujishiro, Kenji, 4,656,787, Cl. 51-50.00R.
Ueda, Takemi; and Umezawa, Norio, 4,677,335, Cl. 310-268.000.
Ueno, Shigeto; Ohnishi, Masanori; Nakamura, Yuji; and Tanaka, Shinichi, 4,639,814, Cl. 360-130.100.
Ueshiba, Nozomu; Fukada, Tetsuji; and Ise, Yukihiko, 4,685,767, Cl. 350-255.000.
Urata, Yoshihito; Tatekawa, Masaichiro; and Sasaki, Toshiharu, 4,696,562, Cl. 355-3.00R.
Utsumi, Kuniaki, 4,644,536, Cl. 370-100.000.
Uya, Masaru, 4,645,944, Cl. 307-243.000.
Uya, Masaru, 4,682,303, Cl. 364-788.000.
Wada, Masaru; Shimizu, Hirokazu; Shibutani, Takao; Itoh, Kunio; Hamada, Ken; and Teramoto, Iwao, 4,675,074, Cl. 156-647.000.
Wada, Takahiro; and Hiroshi, Yoneno, 4,672,178, Cl. 219-378.000.
Wakabayashi, Noriaki; and Ishibashi, Hiromichi, 4,669,073, Cl. 396-45.000.
Waki, Osamu, 4,652,875, Cl. 340-825.440.
Watanabe, Hirotoshi; Makino, Osamu; and Ishida, Toru, 4,695,504, Cl. 428-209.000.
Watanabe, Toshio, 4,689,455, Cl. 200-340.000.
Yamada, Koichi; Kubo, Kanji; and Nishitani, Yasuo, 4,644,414, Cl. 360-10.200.
Yamada, Nobora; Ohno, Eiji; and Kimura, Kunio, 4,656,079, Cl. 428-209.000.
Yamada, Noboru; Nishiueki, Kenichi; and Takenaga, Mutsuo, 4,659,588, Cl. 427-42.000.
Yamada, Noboru; Nagashima, Michiyoshi; and Nishiuchi, Kenichi, 4,710,911, Cl. 369-100.000.
Yamada, Takahiro, 4,639,753, Cl. 357-22.000.
Yamada, Takahiro, 4,654,685, Cl. 357-30.000.
Yamada, Takahiro; and Fujiwara, Yoshihiro, 4,665,325, Cl. 307-311.000.
Yamada, Toshio; and Esaki, Hideya, 4,700,329, Cl. 365-210.000.
Yamaguchi, Kimiaki; Nitta, Masahiro; Inoue, Kazuyuki; Hirose, Teruo; and Toda, Yoshihiro, 4,659,891, Cl. 219-10.55D.
Yamaguchi, Kimiaki; and Hirai, Kazumi, 4,675,510, Cl. 219-518.000.

Yamaguchi, Seiji; Ichinohe, Eisuke; and Katsura, Johji, 4,712,194, Cl. 365-203.000.
Yamamoto, Hiromasa; Shida, Sankichi; and Todoroki, Tsunehiko, 4,696,100, Cl. 29-605.000.
Yamamoto, Junko; Fujimoto, Kyohei; Hirasawa, Kazuhiro; and Kuboyama, Haruhiro, 4,701,763, Cl. 343-700.0MS.
Yamamoto, Shuji; Kishimoto, Yoshio; Terakado, Seishi; and Shinoda, Hideho, 4,661,690, Cl. 219-549.000.
Yamamoto, Yoshiharu; Miyatake, Yoshito; Nakajima, Yasuo; Nagaoka, Yoshitomi; and Ono, Syusuke, 4,704,009, Cl. 350-432.000.
Yamane, Shigeki; Mori, Keijiro; and Sakamoto, Kyooya, 4,691,269, Cl. 363-41.000.
Yamanishi, Kazuhiro; Kobayashi, Masaaki; and Shimotashiro, Masafumi, 4,704,639, Cl. 358-330.000.
Yamashita, Fumitoshi; Wada, Masami; and Kitayama, Shuichi, 4,689,163, Cl. 252-62.540.
Yamashita, Ichiro; Wakamiya, Masayuki; Hase, Hiroyuki; and Tokuono, Shinya, 4,696,192, Cl. 73-728.000.
Yamashita, Sadahiko; Hasegawa, Makoto; Ohba, Motoi; Kikuchi, Koh; and Shishido, Tsutomu, 4,661,998, Cl. 455-315.000.
Yamaura, Izumi; Fukumoto, Masami; and Torigoe, Masao, 4,679,990, Cl. 417-312.000.
Yamaura, Junichi; Toyoguchi, Yoshinori; Matsui, Tooru; and Iijima, Takashi, 4,658,498, Cl. 29-623.100.
Yamaura, Junichi; Matsui, Tooru; Nankai, Shiro; and Toyoguchi, Yoshinori, 4,668,594, Cl. 429-194.000.
Yokotani, Yoichiro; Kato, Junichi; Nishida, Masamitsu; Kawashima, Syunichiro; and Ouchi, Hiromu, 4,711,862, Cl. 501-136.000.
Yokoyama, Toshinobu; Watanabe, Sadao; and Kurata, Takatsugu, 4,714,863, Cl. 315-366.000.
Yoshida, Hideki; Shinohara, Koichi; and Suzuki, Takashi, 4,673,617, Cl. 428-323.000.
Yoshida, Tomio; and Ohara, Shunji, 4,679,184, Cl. 369-112.000.
Yoshida, Tomio; Nakata, Yoshinobu; Ohara, Shunji; and Satoh, Toshio, 4,700,336, Cl. 369-44.000.
Yoshida, Yuji; Suzuki, Shigeo; Nakatani, Kazuo; Mukai, Yuji; Nakazawa, Akira; and Imoto, Takumi, 4,679,403, Cl. 62-114.000.
Yoshihito, Urata; Toshiharu, Sasaki; Yoshihiro, Yokoyama; and Yoichi, Sekine, 4,647,177, Cl. 355-3.0BE.
Yoshiike, Nobuyuki; and Kondo, Shigeo, 4,711,815, Cl. 428-411.100.
Yoshikawa, Yoshitaka; Tsukamoto, Masahide; Nishimura, Yutaka; Ono, Hitoshi; and Sano, Tetsuhiro, 4,679,054, Cl. 346-76.0PH.
Yoshimura, Susumu; Kudoh, Yasuo; Tsuchiya, Soji; Kojima, Toshikuni; and Takahashi, Shohzoh, 4,679,124, Cl. 361-433.000.
Yoshino, Kimiaki; Ando, Eiji; Miyazaki, Jinsei; and Morimoto, Kazuhisa, 4,686,169, Cl. 430-339.000.
Yoshinori, Toyoguchi; Yamaura, Junichi; Matsui, Tooru; and Iijima, Takashi, 4,683,182, Cl. 429-194.000.
Youda, Hiroshi; Kaminaka, Nobuyuki; and Mitani, Satoru, 4,663,683, Cl. 360-113.000.
Yuasa, Yasuhito; Hayashi, Kazumasa; Nakata, Koreaki; and Okuma, Akihiro, 4,689,285, Cl. 430-122.000.

Matsushita Electric Industrial Co., Ltd: *See*—
Hiroyasu, Mamoru, 4,665,430, Cl. 358-108.000.
Masaki, Takeshi; Kawata, Koichi; Sakagaito, Yukuo; Yamaguchi, Katsumasa; Kinoshiro, Hiromichi; and Toba, Hiroto, 4,701,591, Cl. 219-121.0LT.

Matsushita Electric Works, Ltd.: *See*—
Abura, Yoshinori; Tsuji, Eiji; Okuyama, Kenji; and Ochi, Shuhei, 4,641,010, Cl. 219-222.000.
Akasaka, Tamotsu; Tomiuchi, Shinichi; Seto, Kazuo; Matsui, Kenichi; and Sawada, Yasushi, 4,673,543, Cl. 264-82.000.
Aoki, Kazuhisa; Tagishi, Hiroyuki; and Maekawa, Nobuteru, 4,668,908, Cl. 323-324.000.
Araki, Tsunehiko; Matsuda, Hiroshi; Kayanoki, Kazuhito; and Nagaoka, Akira, 4,656,462, Cl. 340-556.000.
Fuji, Toshinori; and Okamoto, Shinji, 4,708,545, Cl. 409-131.000.
Fujishima, Nobuichi; Nakano, Hideharu; and Ochi, Shuhei, 4,687,906, Cl. 219-364.000.
Furukawa, Kaoru, 4,668,901, Cl. 320-31.000.
Hashimoto, Koichi; Sugai, Haruo; Hara, Hikoyoshi; and Yamada, Norio, 4,686,967, Cl. 128-57.000.
Imamura, Hiroshi; Nakai, Katsumasa; Higashigawa, Masahiro; and Toho, Makoto, 4,665,341, Cl. 313-493.000.
Iwata, Hideo; Kitagawa, Yoshiaki; Koshijima, Jiro; and Tachibana, Tetsuya, 4,646,815, Cl. 165-56.000.
Kagawa, Hirohiko; Kyotani, Yasuhiro; and Torii, Munetomo, 4,716,184, Cl. 523-310.000.
Kakinoki, Toshiyuki; and Hirata, Kazuhiko, 4,688,277, Cl. 4-623.000.
Kaneda, Hiroshi; Takagi, Mitsuhiro; and Nakamura, Masaaki, 4,685,581, Cl. 220-3.200.
Kato, Yutaka, 4,713,016, Cl. 439-137.000.
Komatsu, Teruaki; Kobayashi, Kiyoshi; Tatsu, Kunihiko; and Shibata, Shoichi, 4,695,065, Cl. 279-60.000.
Kuwabara, Hideo; and Ohta, Takao, 4,638,128, Cl. 200-33.00R.
Makimoto, Toshio; Nishimura, Sadahiko; Matsuo, Masayuki; Abiko, Toshio; Ishizaki, Hirohumi; Kanda, Minoru; Numoya, Hidetsugu; and Komatsu, Mikio, 4,713,670, Cl. 343-700.0MS.
Matsumura, Masahiro; Ogasawara, Kenzi; Nakamoto, Atsuhiro; and Sugawa, Yoshihisa, 4,680,377, Cl. 528-322.000.
Mishina, Kazuhiro, 4,694,157, Cl. 250-214.00C.
Miyata, Makoto, 4,669,636, Cl. 222-153.000.
Motoyama, Masanori; Nishikawa, Toyotaka; and Nakagawa, Masashi, 4,707,675, Cl. 335-130.000.
Murakami, Kazumasa; and Terada, Motoharu, 4,692,750, Cl. 340-588.000.
Nagasaki, Haruki; Kitamura, Masami; and Iguchi, Yoji, 4,649,642, Cl. 30-34.100.
Nakagawa, Hisao; and Matsumoto, Masao, 4,675,997, Cl. 30-43.000.
Nakano, Kunimitsu; and Onishi, Hiroyuki, 4,716,392, Cl. 335-189.000.
Nishimori, Shoji; and Nishii, Takeshi, 4,644,115, Cl. 200-67.00D.
Nobutoki, Kazuhiro; Ono, Kenji; Okahashi, Keiji; and Matsumura, Sueyoshi, 4,688,010, Cl. 335-128.000.
Nobutoki, Kazuhiro; and Ono, Kenji, 4,695,813, Cl. 335-78.000.
Okamoto, Shinji; Yoshimura, Kazunari; and Nakahara, Tomoharu, 4,677,473, Cl. 358-101.000.
Okutsu, Hideo; Mikami, Koushirou; Yonezawa, Kazuyoshi; and Ichikawa, Kuniharu, 4,701,595, Cl. 219-364.000.
Ono, Kenji; and Nobutoki, Kazuhiro, 4,703,293, Cl. 335-80.000.
Onogi, Toshiro; Hatakawa, Mamoru; and Fujimoto, Hiroaki, 4,658,375, Cl. 364-900.000.
Saimomoto, Yoshinori; and Maekawa, Nobuteru, 4,706,153, Cl. 361-42.000.
Senoue, Masaharu; and Naruse, Haruhiko, 4,653,130, Cl. 5-453.000.
Suzuki, Muneo; Kondo, Mikio; Morimoto, Makoto; and Kayanoki, Kazuhito, 4,672,206, Cl. 250-342.000.
Suzuki, Yasuo, 4,644,233, Cl. 318-254.000.
Suzuki, Yasuo; Kawamoto, Tetsuo; Motobashi, Ryo; Nagai, Masato; Takegawa, Katsumi; and Taniguchi, Naohiro, 4,704,567, Cl. 318-254.000.
Tanahashi, Masao; Hamashima, Tetsuo; and Kumano, Humihiro, 4,635,360, Cl. 30-34.200.
Yabu, Yasuo; Abiko, Toshio; and Matsuo, Masayuki, 4,679,051, Cl. 343-700.0MS.
Yamada, Satoshi; and Furukawa, Kaoru, 4,710,695, Cl. 320-21.000.
Yasuda, Akira; Akiyama, Kazuhisa; Nakao, Toshinari; and Yuasa, Hiroyoshi, 4,703,347, Cl. 358-102.000.
Yasunaka, Shinsaku, 4,660,283, Cl. 30-43.920.
Yokoyama, Hideki, 4,655,529, Cl. 339-122.00R.
Yokoyama, Yoichi; Hamaguchi, Hiroaki; and Yamamoto, Masatoshi, 4,703,294, Cl. 335-121.000.
Yuasa, Hiroyoshi; Yasuda, Akira; and Omura, Koichi, 4,679,077, Cl. 358-108.000.
Yuasa, Hiroyoshi; and Omura, Koichi, 4,703,348, Cl. 358-133.000.
Yukawa, Kazuhiko, 4,649,552, Cl. 377-24.000.
Yukawa, Kazuhiko; Tasaka, Isao; and Yamamura, Yukio, 4,651,446, Cl. 36-132.000.

Matsushita Electronics Corporation: *See*—
Ashizaki, Shigeya; Sugahara, Koichi; Muranishi, Hideo; and Natsuhara, Masao, 4,791,677, Cl. 315-382.000.
Fuji, Hiroyuki; Tateno, Kenichi; and Nishikawa, Mikio, 4,637,130, Cl. 29-588.000.
Hagio, Masahiro; Nanbu, Shutaro; Kanazawa, Kunihiko; Ogata, Shunji; and Tohmori, Shiro, 4,665,416, Cl. 357-22.000.
Itoh, Minoru, 4,709,380, Cl. 377-58.000.
Iwama, Katsuaki; Takahashi, Mutsuo; and Shibata, Haruo, 4,705,986, Cl. 313-487.000.
Ogasawara, Toshitaka; Nohmi, Kazumasa; Honmoh, Masao; and Iseki, Yukito, 4,695,763, Cl. 313-487.000.
Ohsawa, Akira, 4,669,065, Cl. 365-210.000.
Takebayashi, Koji, 4,682,408, Cl. 29-576.00W.
Toyooka, Tetsuo; and Shiraishi, Masatoshi, 4,662,062, Cl. 29-578.000.

Matsushita Graphic Communication Systems: *See*—
Kato, Makoto; and Togashi, Mitsuo, 4,676,596, Cl. 350-167.000.

Matsushita, Kazuhiro: *See*—
Kamo, Osamu; Ohuchi, Muneki; and Matsushita, Kazuhiro, 4,641,096, Cl. 324-311.000.

Matsushita, Kazuyoshi: *See*—
Yajima, Yutaka; and Matsushita, Kazuyoshi, 4,634,037, Cl. 228-6.100.

Matsushita, Kazuyuki: *See*—
Imaizumi, Mamoru; Ishikawa, Yujiro; Ohta, Eiichi; Sato, Shizuo; and Matsushita, Kazuyuki, 4,647,765, Cl. 250-227.000.

Matsushita, Keita: *See*—
Okino, Hiroshi; Uchida, Seiichi; and Matsushita, Keita, 4,700,007, Cl. 568-347.000.

Matsushita, Koichi; Isohata, Junji; Yamamoto, Hironori; Miyazaki, Makoto; Ozawa, Kunitaka; and Yoshinari, Hideki, to Canon Kabushiki Kaisha, Exposure apparatus, 4,676,630, 6-30-87, Cl. 355-53.000.

Matsushita, Koichi: *See*—
Isohata, Junji; Yamamoto, Hironori; and Matsushita, Koichi, 4,708,465, Cl. 355-53.000.

Matsushita, Kouji: *See*—
Oda, Masataka; Yoshiyama, Tsugihito; Myochin, Hisashi; and Matsushita, Kouji, 4,688,927, Cl. 355-3.0TR.

Matsushita, Masao; Oku, Kenzo; Nakano, Hiroki; and Okumura, Shinichi, to Nishiyodo Air Conditioner Co., Ltd. Adsorption refrigerating apparatus, 4,709,558, 12-1-87, Cl. 62-480.000.

Matsushita, Mitsuo, to Mita Industrial Co., Ltd. Doctor blade positioning in electrophotographic copying machines, 4,695,153, 9-22-87, Cl. 355-3.0DD.

Matsushita, Osami; Takagi, Michiyuki; Yoneyama, Mitsuho; and Sugaya, Toyomi, to Hitachi, Ltd. Control apparatus for a rotor supported by an electromagnetic bearing, 4,697,128, 9-29-87, Cl. 318-607.000.

Matsushita, Osami: *See*—
Sato, Kazuo; Shiohata, Kouki; Matsushita, Osami; Kikuchi, Katsuaki; Takasumi, Masakazu; Sato, Ichiya; and Kaneko, Ryoichi, 4,685,335, Cl. 73-660.000.

Matsushita Refrigeration Company: *See*—
Morita, Mitsuru; and Nasu, Hitoshi, 4,646,533, Cl. 62-225.000.
Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Aoyama, Shigeo; Tanno, Satoshi; and Kato, Kaoru, 4,691,767, Cl. 165-151.000.
Uekado, Kazutaka; and Okada, Kazuo, 4,668,555, Cl. 428-69.000.

Matsushita, Seiji; Fujishima, Akira; Arika, Isao; and Nakamura, Joji, to Matsushita Electric Industrial Co., Ltd. Variable-capacitance tuning circuit for high-frequency signals. 4,675,634, 6-23-87, Cl. 334-15.000.

Matsushita Seiko Co., Ltd.: *See*—
Takeda, Masaaki, 4,641,053, Cl. 310-317.000.
Yamane, Shigeki; Mori, Keijiro; and Sakamoto, Kyooya, 4,691,269, Cl. 363-41.000.

Matsushita, Soichi: *See*—
Kato, Kenji; Inoue, Tokuta; Nakanishi, Kiyoshi; and Matsushita, Soichi, 4,682,577, Cl. 123-492.000.
Kato, Kenji; Matsushita, Soichi; and Nakanishi, Kiyoshi, 4,694,794, Cl. 123-306.000.

Matsushita, Takashi; Takahashi, Sadatoshi; Ikemori, Keiji; Kitagishi, Nozomu; Tanaka, Tsunefumi; and Momiyama, Kikuo, to Canon Kabushiki Kaisha. Zoom lens able to obtain focal lengths beyond the zooming range. 4,711,534, 12-8-87, Cl. 350-426.000.

Matsushita, Toshihiko; Morishita, Sadao; Sekine, Mikiya; and Hirashi, Shigetoshi, to Mitsubishi Paper Mills, Ltd. Biocapsule. 4,696,863, 9-29-87, Cl. 428-402.200.

Matsushita, Toshihiko; Morishita, Sadao; and Sekine, Mikiya, to Mitsubishi Paper Mills, Ltd. Heat-sensitive and heat-transferable recording sheet. 4,703,335, 10-27-87, Cl. 503-204.000.

Matsushita, Toshihiko: *See*—
Morishita, Sadao; Matsushita, Toshihiko; and Sekine, Mikiya, 4,651,177, Cl. 346-227.000.
Morishita, Sadao; Matsushita, Toshihiko; and Sekine, Mikiya, 4,707,404, Cl. 428-335.000.

Matsushita, Toshiro: *See*—
Kuwano, Hiroaki; Matsushita, Toshiro; Kakuma, Hideaki; and Motomiya, Teruaki, 4,648,580, Cl. 251-129.010.

Matsushita, Tsurumasa: *See*—
Sato, Masahiko; Kato, Kazutoshi; Ishibashi, Akira; and Matsushita, Tsurumasa, 4,691,154, Cl. 318-696.000.

Matsushita, Tsuyoshi; Maekawa, Motoi; and Takahashi, Makoto, to Tokyo Electric Co., Ltd. Electronic typewriter with presettable specification tables. 4,684,275, 8-4-87, Cl. 400-479.000.

Matsushita, Tsuyoshi, to Tokyo Electric Co., Ltd. Impact printer with variable delay for print cycle based on different print-hammer energy levels. 4,710,043, 12-1-87, Cl. 400-144.200.

Matsushita, Tsuyoshi: *See*—
Sato, Masafumi; and Matsushita, Tsuyoshi, 4,653,945, Cl. 400-144.200.

Matsushita, Yasuo; Nakamura, Kousuke; Ura, Mitsuru; and Kobayashi, Fumiyuki, to Hitachi, Ltd. Ceramic packaged semiconductor device. 4,651,192, 3-17-87, Cl. 357-74.000.

Matsushita, Yoshiaki, to Kabushiki Kaisha Toshiba. Semiconductor substrate. 4,645,546, 2-24-87, Cl. 148-33.000.

Matsushita, Yoshiaki: *See*—
Furutera, Masaharu; Furukawa, Tetsuro; and Matsushita, Yoshiaki, 4,662,191, Cl. 62-476.000.
Furutera, Masaharu; Furukawa, Tetsuro; Matsushita, Yoshiaki; and Nakauchi, Kenji, 4,672,821, Cl. 62-324.200.

Matsushita, Yoshihiro: *See*—
Harada, Hiroshi; Matsushita, Yoshihiro; Nakamura, Masuhisa; and Yonetani, Yukio, 4,659,709, Cl. 514-229.000.
Ochiai, Michihiko; Okada, Taiti; Aki, Osami; Morimoto, Akira; Kawakita, Kenji; and Matsushita, Yoshihiro, 4,668,783, Cl. 540-222.000.
Ochiai, Michihiko; Morimoto, Akira; and Matsushita, Yoshihiro, 4,680,390, Cl. 540-228.000.

Matsushita, Yoshikazu: *See*—
Aoki, Kenji; Takei, Katsumori; Nakamura, Haruo; and Matsushita, Yoshikazu, 4,671,616, Cl. 350-331.00R.

Matsushita, Yukio, to Sanshin Kogyo Kabushiki Kaisha. Internal combustion engine provided with fuel injection device. 4,700,671, 10-20-87, Cl. 123-198.00C.

Matsushita, Yukio: *See*—
Iwai, Tomio; and Matsushita, Yukio, 4,677,826, Cl. 60-602.000.

Matsushita, Yutaka. Free wheel cap. 4,678,239, 7-7-87, Cl. 301-37.00N.

Matsuta, Shigetoshi, to Alps Electric Co., Ltd. UHF mixing circuit having π configured impedance converter. 4,637,070, 1-13-87, Cl. 455-331.000.

Matsuta, Shigetoshi, to Alps Electric Co., Ltd. Grounding construction for multilayer printed circuit boards. 4,649,461, 3-10-87, Cl. 361-415.000.

Matsuta, Shigetoshi, to Alps Electric Co., Ltd. Band switching circuit tuner. 4,710,737, 12-1-87, Cl. 334-56.000.

Matsutani, Kanji, to Matsutani Seisakusho Co., Ltd. Method of forming bore in eyeless operating needle. 4,700,043, 10-13-87, Cl. 219-121.0LJ.

Matsutani Seisakusho Co., Ltd.: *See*—
Matsutani, Kanji, 4,700,043, Cl. 219-121.0LJ.

Matsuura, Azuma: *See*—
Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; Nishii, Kota; and Matsuura, Azuma, 4,670,299, Cl. 427-96.000.

Matsuura, Chihiro: *See*—
Tamura, Takaaki; Fujita, Norihiko; Kawanishi, Toshio; and Matsuura, Chihiro, 4,652,537, Cl. 502-5.000.

Matsuura, Eiichi; and Tsukada, Nobuo, to Seiko Instruments & Electronics Ltd. Wristwatch. 4,645,356, 2-24-87, Cl. 368-160.000.

Matsuura, Haruo: *See*—
Ohgushi, Kikuo; Yoshikawa, You; Ohnishi, Isao; and Matsuura, Haruo, 4,669,275, Cl. 62-342.000.

Matsuura, Hideji: *See*—
Kato, Noboru; Matsuura, Hideji; and Umezmura, Shinichiro, 4,701,830, Cl. 361-395.000.

Matsuura, Hirokazu, to Sharp Kabushiki Kaisha. Independent dual electrophotographic copying machine. 4,639,120, 1-27-87, Cl. 355-14.00R.

Matsuura, Hiroyuki: *See*—
Hoshino, Kazuya; Yamada, Noriaki; Yoshitome, Eiji; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,644,279, Cl. 324-309.000.
Hoshino, Kazuya; and Matsuura, Hiroyuki, 4,713,614, Cl. 324-307.000.
Iwaoka, Hideto; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,651,097, Cl. 324-309.000.
Iwaoka, Hideto; Sugiyama, Tadashi; Matsuura, Hiroyuki; and Hirata, Takaaki, 4,694,250, Cl. 324-309.000.
Shimazaki, Toru; and Matsuura, Hiroyuki, 4,713,616, Cl. 324-309.000.
Sugiyama, Tadashi; Iwaoka, Hideto; and Matsuura, Hiroyuki, 4,665,368, Cl. 324-318.000.
Yamada, Noriaki; Hoshino, Kazuya; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,656,426, Cl. 324-309.000.

Matsuura, Hitoshi, to Fanuc Ltd. Adaptive feed rate controller for tracer head. 4,646,225, 2-24-87, Cl. 364-167.000.

Matsuura, Hitoshi; and Sakurai, Hiroshi, to Fanuc Ltd. Arbitrary-direction tracer control unit. 4,709,482, 12-1-87, Cl. 33-1.00M.

Matsuura, Hitoshi: *See*—
Kishi, Hajimu; Matsui, Mitsuo; and Matsuura, Hitoshi, 4,639,172, Cl. 409-80.000.
Yamazaki, Etsuo; and Matsuura, Hitoshi, 4,703,239, Cl. 318-578.000.

Matsuura, Junichi; Kobayashi, Yoshiteru; Kishiro, Osamu; and Inagaki, Yumiko, to Itaru Todoriki, Director of Agency of Industrial Science and Technology. Selective gas separator. 4,662,905, 5-5-87, Cl. 55-158.000.

Matsuura, Junichi; and Okada, Munehisa, to Mitsubishi Chemical Industries Limited. Gas separation membrane. 4,714,481, 12-22-87, Cl. 55-158.000.

Matsuura, Kazuo; Nakahara, Katuzi; and Hayashi, Kenji, to Toray Industries, Incorporated. Conductive sheet and electrostatic recording medium formed therefrom. 4,702,980, 10-27-87, Cl. 430-63.000.

Matsuura, Kazuo; Yoshioka, Hiroshi; and Koga, Kiyoshi, to Honda Giken Kogyo Kabushiki Kaisha. Fluid-filled bushing. 4,705,263, 11-10-87, Cl. 267-33.000.

Matsuura, Kazuo: *See*—
Ishikawa, Hidehiko; Matsuura, Kazuo; and Misaki, Hideo, 4,683,198, Cl. 435-22.000.
Kamiya, Takeshi; Matsuura, Kazuo; Miyoshi, Mituji; Misumi, Kozo; Kadomatsu, Seiji; and Nose, Shinji, 4,652,616, Cl. 525-331.700.
Yamaoka, Noboru; Yokoyama, Shigeki; Matsuura, Kazuo; Misumi, Kozo; Watanabe, Junichi; and Kadomatsu, Seiji, 4,704,439, Cl. 525-334.100.

Matsuura, Kotaro; and Oyamada, Kenji, to Sanyo Electric Co., Ltd. Magnetic head having a main core of sheet amorphous magnetic material. 4,697,217, 9-29-87, Cl. 360-125.000.

Matsuura, Masaaki: *See*—
Tomita, Takao; Matsuura, Masaaki; Hirano, Makoto; Handa, Masao; and Shiozaki, Tomoo, 4,671,228, Cl. 123-193.00P.

Matsuura, Masahiko; Kaneko, Tadashi; Kade, Tadayoshi; and Hotate, Makoto, to Mazda Motor Corporation. Air-fuel ratio control for an international combustion engine. 4,633,841, 1-6-87, Cl. 123-492.000.

Matsuura, Masahiko; Doi, Nobuo; Yoshioka, Sadashichi; Okimoto, Haruo; and Ueda, Kazuhiko, to Mazda Motor Corporation. Engine roughness control means. 4,683,856, 8-4-87, Cl. 123-436.000.

Matsuura, Masaru, to Kikkoman Corporation. Process for production of sterilized packed tofu. 4,636,398, 1-13-87, Cl. 426-634.000.

Matsuura, Masataka: *See*—
Funada, Fumiaki; Kuwagaki, Hiroshi; Yamamoto, Kunihiko; and Matsuura, Masataka, 4,705,360, Cl. 350-344.000.
Hamada, Hiroshi; Funada, Fumiaki; and Matsuura, Masataka, 4,679,909, Cl. 350-333.000.
Ishii, Yutaka; Funada, Fumiaki; and Matsuura, Masataka, 4,643,841, Cl. 252-299.610.

Matsuura, Mitsuyuki; and Fujita, Takashi, to Mitsubishi Petrochemical Company Limited. Catalyst component for polymerization of olefins. 4,703,026, 10-27-87, Cl. 502-119.000.

Matsuura, Naosuke: *See*—
Koda, Akihide; Hori, Mikio; Yasumoto, Mitsugi; Matsuura, Naosuke; Yamawaki, Ichiro; and Tada, Yukio, 4,670,583, Cl. 562-426.000.

Matsuura, Ryoichi: *See*—
Otsuki, Hiromi; Matsuura, Ryoichi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,685,749, Cl. 303-116.000.
Otsuki, Hiromi; Numata, Kenichi; Matsuura, Ryoichi; Nomura, Yoshihisa; Nakanishi, Nobuyasu; and Oka, Hiroyuki, 4,715,667, Cl. 303-119.000.

Tsuru, Naohiko; Matsuura, Ryoichi; Otsuki, Hiromi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,636,009, Cl. 303-93.000.

Matsuura, Shigeo: *See*—
Kaizaki, Kazuhiro; Kubota, Sadao; Harada, Hiroshi; and Matsuura, Shigeo, 4,636,863, Cl. 358-167.000.

Matsuura, Syuuji, to Sharp Kabushiki Kaisha. Radio frequency signal variable attenuation circuit. 4,668,882, 5-26-87, Cl. 307-540.000.

Matsuura, Takanobu; and Yamamoto, Toshiyuki, to Alps Electric Co., Ltd. Thermal printer. 4,641,150, 2-3-87, Cl. 346-76.0PH.

Matsuura, Takanobu; and Yamamoto, Toshiyuki, to Alps Electric Co., Ltd. Thermal printer. 4,644,371, 2-17-87, Cl. 346-76.0PH.

Matsuura, Takanobu; and Yamamoto, Toshiyuki, to Alps Electric Co., Ltd. Head connection structure of printer. 4,667,210, 5-19-87, Cl. 346-139.00R.

Matsuura, Takashi; and Fukumura, Yukio, to NEC Corporation. Phase-locked loop frequency synthesizer having reduced power consumption. 4,667,169, 5-19-87, Cl. 331-14.000.

Matsuura, Takeshi: *See*—
Morioka, Akira; Matsuura, Takeshi; and Takahira, Yoshiyuki, 4,716,076, Cl. 428-323.000.

Matsuura, Tooru: *See*—
Tahara, Masato; Matsuura, Tooru; and Ryu, Toshihiko, 4,688,235, Cl. 375-102.000.

Matsuura, Toshihiro, to Kabushiki Kaisha Toshiba. Multi-stage turbine. 4,710,099, 12-1-87, Cl. 415-199.500.

Matsuura, Toshio; Murakami, Seiro; Imai, Yuji; Ohta, Kazuya; and Tanimoto, Akikazu, to Nippon Kogaku K. K. Position detecting system. 4,702,606, 10-27-87, Cl. 356-401.000.

Matsuura, Toshio: *See*—
Murakami, Seiro; Matsuura, Toshio; Imai, Yuji; and Ohta, Kazuya, 4,655,598, Cl. 356-400.000.
Tanimoto, Akikazu; Matsuura, Toshio; Murakami, Seiro; Uehara, Makoto; and Suwa, Kyoichi, 4,677,301, Cl. 250-548.000.
Tanimoto, Akikazu; Matsuura, Toshio; and Suwa, Kyoichi, 4,699,515, Cl. 356-40.000.

Matsuura, Toshitaka; Ohkawa, Teppei; Furusaki, Keizo; and Takami, Akio, to NGK Spark Plug Co., Ltd. Gas sensor. 4,652,849, 3-24-87, Cl. 338-34.000.

Matsuura, Toshitaka: *See*—
Kojima, Takao; Nakano, Akira; Matsuura, Toshitaka; and Takami, Akio, 4,688,015, Cl. 338-34.000.
Takami, Akio; Matsuura, Toshitaka; and Kawai, Nobuo, 4,656,863, Cl. 73-23.000.
Takami, Akio; Matsuura, Toshitaka; Nakano, Akira; and Kuroki, Yoshiaki, 4,660,407, Cl. 73-23.000.

Matsuura, Tosimi: *See*—
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Matsuura, Yasuhiko, to Hitachi, Ltd. Dynamic memory diagnosis and error correction apparatus. 4,694,454, 9-15-87, Cl. 371-13.000.

Matsuura, Yoshikazu, to Teraoka Seiko Company Limited. Control system for combined weighing apparatus. 4,673,046, 6-16-87, Cl. 177-1.000.

Matsu'ura, Yukio: *See*—
Okazaki, Takashi; Matsu'ura, Yukio; and Saijo, Yoshihiko, 4,638,549, Cl. 29-564.400.

Matsuura, Yutaka; Sagawa, Masato; and Fujimura, Setsuo, to Sumitomo Special Metals Co., Ltd. Permanent magnet materials. 4,684,406, 8-4-87, Cl. 75-244.000.

Matsuyama, Akio: *See*—
Hirose, Sumio; Naruse, Isao; and Matsuyama, Akio, 4,694,052, Cl. 525-454.000.

Matsuyama, Chiaki: *See*—
Tajiri, Hiromitsu; Nishiguchi, Yasuo; and Matsuyama, Chiaki, 4,652,767, Cl. 250-578.000.

Matsuyama, Fumio; and Kato, Chiaki, to Sumitomo Electric Industries, Ltd. Method and apparatus for applying a releasing agent. 4,668,537, 5-26-87, Cl. 427-401.000.

Matsuyama, Haruhiko; Shoji, Fusaji; and Kuwazuka, Shunichiro, to Hitachi, Ltd. Magnetic head and method of producing the same. 4,686,147, 8-11-87, Cl. 428-447.000.

Matsuyama, Haruhiko: *See*—
Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hitoshi; Isogai, Tokio; Saitoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, 4,643,913, Cl. 427-75.000.

Matsuyama, Isamu; and Sugimoto, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Water leakage monitoring system. 4,656,509, 4-7-87, Cl. 358-100.000.

Matsuyama, Katuo: *See*—
Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358-236.000.

Matsuyama, Kiyoshi; Suzuki, Takatoshi; and Chigusa, Takeshi, to Sumitomo Chemical Company, Limited. Finishing method of polymer slurry. 4,713,444, 12-15-87, Cl. 528-502.000.

Matsuyama, Kozo: *See*—
Watanabe, Junji; and Matsuyama, Kozo, 4,699,501, Cl. 355-14.00R.

Matsuyama, Noboru: *See*—
Shibuki, Osamu; Matsuyama, Noboru; Nagasawa, Yoshiaki; Kawai, Katsuhiro; Sakagami, Shigeru; and Onoyama, Toshiaki, 4,641,065, Cl. 318-135.000.
Shibuki, Osamu; Matsuyama, Noboru; Umemura, Yoichi; Kamiya, Atsushi; Fujii, Takaya; Seki, Masayuki; and Ohta, Norio, 4,664,352, Cl. 248-562.000.

Matsuyama, Shigeru; Kanazaki, Mikio; Aoki, Norio; and Ishii, Akira, to Hitachi, Ltd.; and Hitachi Device Engineering Co., Ltd. Liquid crystal color display device having plural color filters per segment electrode. 4,709,993, 12-1-87, Cl. 350-339.00F.

Matsuyama, Shinichi: *See*—
Shimizu, Masami; and Matsuyama, Shinichi, 4,647,176, Cl. 354-475.000.

Matsuyama, Taizo: *See*—
Suzuki, Mitsuo; Hashimoto, Hitoshi; Ichikawa, Nobuyasu; Yamada, Ichiho; Ozawa, Akira; and Matsuyama, Taizo, 4,656,726, Cl. 29-568.000.

Matsuyama, Takayoshi; and Kobayashi, Kenichi, to Fujitsu Limited. Inspecting method and apparatus for a photomask pattern. 4,701,859, 10-20-87, Cl. 364-490.000.

Matsuyama, Takayoshi: *See*—
Kobayashi, Kenichi; and Matsuyama, Takayoshi, 4,669,123, Cl. 382-8.000.

Matsuyama, Takeshi: *See*—
Ohshima, Tetsuya; Senshu, Hisashi; Matsuyama, Takeshi; Kawagishi, Yoji; Andoh, Takuo; and Kiryu, Takashi, 4,656,113, Cl. 430-137.000.

Matsuyama, Toshiro: *See*—
Ehara, Shaw; Kojima, Yoshimi; Imada, Eiji; Hayakawa, Takashi; and Matsuyama, Toshiro, 4,687,724, Cl. 430-84.000.
Kojima, Yoshimi; Narikawa, Shiro; Hayakawa, Takashi; Nojima, Hideo; Imada, Eiji; Matsuyama, Toshiro; and Ehara, Shaw, 4,666,816, Cl. 430-128.000.

Matsuyama, Tsunekazu: *See*—
Kumazawa, Yoshihiko; and Matsuyama, Tsunekazu, 4,661,909, Cl. 364-414.000.

Matsuyama, Yoshihiko: *See*—
Kobayashi, Shunsuke; Matsuyama, Yoshihiko; and Koutake, Masayoshi, 4,701,024, Cl. 350-331.00R.

Matsuyama, Yujiro: *See*—
Kuze, Katsuaki; Nishino, Yasuhiro; Matsuyama, Yujiro; Maeda, Kozo; Kobayashi, Masahiro; Okudaira, Tadashi; Hongo, Tsuyoshi; and Makimura, Osamu, 4,693,932, Cl. 428-323.000.

Matsuzaka, Eiichi: *See*—
Kawakami, Shigenobu; Matsuzaka, Eiichi; Narui, Satoshi; and Takahashi, Naoya, 4,661,165, Cl. 106-311.000.
Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Matsuzaka, Eiichi; and Narui, Satoshi, 4,642,730, Cl. 361-315.000.
Takahashi, Naoya; Endo, Keiji; Matsuzaka, Eiichi; Narui, Satoshi; and Sato, Atsushi, 4,686,548, Cl. 503-213.000.

Matsuzaka, Kenzo; Okano, Seitaro; and Nakamura, Nobuo, to Canon Kabushiki Kaisha. Optical element forming apparatus. 4,698,089, 10-6-87, Cl. 65-290.000.

Matsuzaka, Masaaki: *See*—
Aoyama, Yoshiyuki; Funabashi, Shuitsu; and Matsuzaka, Masaaki, 4,659,938, Cl. 250-566.000.

Matsuzaka, Syoji: *See*—
Hirabayashi, Shigeto; Matsuzaka, Syoji; Ohya, Yukio; and Nonaka, Yoshiyuki, 4,710,453, Cl. 430-505.000.
Kumashiro, Kenji; Iijima, Toshifumi; Akamatsu, Hideo; and Matsuzaka, Syoji, 4,692,400, Cl. 430-553.000.
Suzuki, Akio; Kobayashi, Takeo; Iwata, Masatoshi; Yamaguchi, Hisashi; and Matsuzaka, Syoji, 4,680,252, Cl. 430-364.000.

Matsuzaka, Takashi; Saito, Toshihiko; and Hisaoka, Satoshi, to Kabushiki Kaisha Toshiba. Pulse combustor. 4,687,435, 8-18-87, Cl. 431-1.000.

Matsuzaka, Takashi: *See*—
Okumura, Masahide; Matsuzaka, Takashi; Matsuoka, Genya; and Saitou, Norio, 4,701,620, Cl. 250-398.000.
Saito, Kazuo; Matsuzaka, Takashi; Chiba, Mitsuyoshi; Sumitani, Shigeto; Yodo, Masami; and Araya, Hiroyuki, 4,642,046, Cl. 431-354.000.

Matsuzaka, Takayoshi: *See*—
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Matsuzaki, Akio: *See*—
Tsurumi, Yasuyuki; and Matsuzaki, Akio, 4,633,965, Cl. 180-229.000.

Matsuzaki, Atsushi; and Saito, Mitsumasa, to Sony Corporation. Current control apparatus in which the beam current for all three colors is controlled according to average and peak values. 4,703,345, 10-27-87, Cl. 358-74.000.

Matsuzaki, Atsushi: *See*—
Ohno, Satoshi; Ichida, Koji; Tomita, Hideo; and Matsuzaki, Atsushi, 4,668,977, Cl. 358-60.000.

Matsuzaki, Harumi; Kubota, Masayoshi; Ebara, Katsuya; Takahashi, Sankichi; and Kuroiwa, Minoru, to Hitachi, Ltd. Apparatus for producing ultra-pure water by ion exchange resin. 4,698,153, 10-6-87, Cl. 210-192.000.

Matsuzaki, Harumi: *See*—
Koseki, Yasuo; Yamada, Akira; Kurokawa, Hideki; Matsuzaki, Harumi; Ebara, Katsuya; and Takahashi, Sankichi, 4,638,646, Cl. 62-478.000.

Matsuzaki, Hiroshi: *See*—
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Matsuzaki, Kazuhiro, to Kabushiki Kaisha Toshiba. Method for producing hybrid integrated circuit. 4,635,346, 1-13-87, Cl. 29-577.00R.

Matsuzaki, Mikio, to Akebono Brake Industry Company Ltd. Disc brake with pad pressed only at ends where antinodes of vibration occur. 4,691,810, 9-8-87, Cl. 188-73.100.
Matsuzaki, Shuichi; and Nakazawa, Akira, to Hirose Electric Co., Ltd. Electrical connector receptacle. 4,668,040, 5-26-87, Cl. 339-125.00R.
Matsuzaki, Toshio; Sorimachi, Haruo; Satoh, Kiyoshi; Suzuki, Takumi; and Sugii, Takeshi, to Fujitsu Limited. Thermal recording head and process for manufacturing wiring substrate therefor. 4,689,638, 8-25-87, Cl. 346-76.0PH.
Matsuzaki, Yasurou, to Fujitsu Limited. Programmable read-only memory device. 4,646,264, 2-24-87, Cl. 365-104.000.
Matsuzaki, Yutaka: *See*—
Takemura, Shinji; Hida, Tsuneo; Matsuzaki, Yutaka; and Ohnishi, Kenichi, 4,634,945, Cl. 318-469.000.
Matsuzaki, Yuzi: *See*—
Shibayama, Shohei; Matsuzaki, Yuzi; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, 4,675,391, Cl. 536-17.400.
Matsuzawa, Masafumi: *See*—
Motojima, Kenji; Miyazawa, Takeshige; Toyokawa, Yasufumi; Matsuzawa, Masafumi; Hokari, Hiroshi; and Kusano, Shoji, 4,678,496, Cl. 71-76.000.
Matsuzawa Seiki Kabushikikaisha: *See*—
Yamatsuta, Sadao; and Mitoshi, Fukumoto, 4,653,106, Cl. 382-8.000.
Matsuzawa, Shigemitsu: *See*—
Ito, Takashi; Matsuzawa, Shigemitsu; and Kato, Katsuaki, 4,716,087, Cl. 429-40.000.
Matsuzawa, Soichiro, to NGK Insulators, Ltd. Method for producing a magnetic head core. 4,675,988, 6-30-87, Cl. 29-603.000.
Matsuzawa, Soichiro, to NGK Insulators, Ltd. Method of manufacturing a magnetic head core. 4,711,018, 12-8-87, Cl. 29-603.000.
Matsuzawa, Toshiharu; and Mochiji, Kozo, to Hitachi, Ltd. Method of measuring resist pattern. 4,670,650, 6-2-87, Cl. 250-307.000.
Matt, Heinz: *See*—
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Matt, Lukas; Mark, Fritz; and Gschwend, Hans, to Hilti Aktiengesellschaft. Device for driving nails or similar fastening elements. 4,640,452, 2-3-87, Cl. 227-131.000.
Mattaboni, Paul J. Autonomous mobile robot. 4,638,445, 1-20-87, Cl. 364-513.000.
Mattarelli, Enmio, to Dynamit Nobel Aktiengesellschaft. Break-open action for sporting rifles. 4,691,462, 9-8-87, Cl. 42-75.040.
Mattausch, Hans J., to Siemens Aktiengesellschaft. Circuit arrangement comprising a matrix-shaped memory arrangement for variably adjustable delay of digital signals. 4,691,302, 9-1-87, Cl. 365-240.000.
Matte, Denis: *See*—
Doyon, Andrea; Matte, Denis; and Brosseau, Jacques, 4,676,038, Cl. 52-282.000.
Mattei, Frank V.: *See*—
Kronenthal, Richard L.; Mattei, Frank V.; and Levy, Alan, 4,650,665, Cl. 424-435.000.
Mattei, Luciano: *See*—
Santambrogio, Alberto; and Mattei, Luciano, 4,692,170, Cl. 44-63.000.
Mattei, Riccardo; Neri, Armando; Gobbi, Santo R.; and Cantello, Maichi, to G.D. Societa per Azioni. Piercing device for piercing ventilating holes in cigarettes or similar smoking commodities. 4,633,891, 1-6-87, Cl. 131-281.000.
Mattei, Riccardo, to G.D. Societa per Azioni. Device for supplying rod-shaped articles, for example cigarettes, to a processing machine. 4,640,656, 2-3-87, Cl. 414-303.000.
Mattei, Riccardo; and Neri, Armando, to G.D. Societa per Azioni. Method for forming perforations in bar-shaped articles. 4,647,752, 3-3-87, Cl. 219-121.0LL.
Mattei, Riccardo, to G.D. Societa per Azioni. Paper web feed device in a cigarette production machine. 4,648,409, 3-10-87, Cl. 131-60.000.
Mattei, Riccardo, to G.D. Societa per Azioni. Method for simultaneously producing two continuous streams of cigarettes. 4,653,516, 3-31-87, Cl. 131-284.000.
Mattei, Riccardo; and Minarelli, Alessandro, to G.D Societa' per Azioni. Device for feeding revenue stamps on a cigarette packing machine. 4,655,871, 4-7-87, Cl. 156-484.000.
Mattei, Riccardo; Neri, Armando; Gobbi, Santo R.; and Cantello, Maichi, to G.D. Societa Per Azioni. Piercing device for piercing ventilating holes in cigarettes or similar smoking commodities. 4,660,578, 4-28-87, Cl. 131-281.000.
Mattei, Riccardo; and Dall'Osso, Gastone, to G.D. Societa per Azioni. Device for feeding cigarettes to the wrapping line of a packeting machine. 4,667,831, 5-26-87, Cl. 209-535.000.
Mattei, Riccardo; and Minarelli, Alessandro, to G.D Societa Per Azioni. Device for feeding and cutting strip labels. 4,675,069, 6-23-87, Cl. 156-510.000.
Mattei, Riccardo; and Dall'Osso, Gastone, to G.D Societa' per Azioni. Method of spacing and turning over two coaxial cigarette lengths on filter assembling machine. 4,676,360, 6-30-87, Cl. 198-377.000.
Mattei, Riccardo; Gorrieri, Giordano; and Filippini, Gualtiero, to G.D. Societa per Azioni. Machine for boxing items in groups. 4,693,051, 9-15-87, Cl. 53-148.000.
Mattei, Riccardo; and Dall'Osso, Gastone, to G.D. Societa per Azioni. Device for transferring bar-shaped articles. 4,693,359, 9-15-87, Cl. 198-474.100.
Mattei, Riccardo; and Brizzi, Marco, to G.D Societa' per Azioni. Method for forming incomplete groups of cigarettes in a cigarette packeting machine. 4,700,825, 10-20-87, Cl. 198-419.000.
Mattei, Riccardo; and Minarelli, Alessandro, to G. D. Societa Per Azioni. Device for the application of an adhesive to one or more localized areas of a sheet of flexible wrapping material. 4,710,257, 12-1-87, Cl. 156-578.000.
Mattei, Riccardo, to G.D. Societa Per Azioni. Apparatus for transporting substantially parallelepipedic packets. 4,711,336, 12-8-87, Cl. 198-347.000.
Mattel, Inc.: *See*—
Atwood, Robert W., 4,639,234, Cl. 446-327.000.
Beny, Janos; and Yamasaki, Toshio, 4,685,894, Cl. 446-435.000.
Brzezinski, Ryszard J.; and Kelley, William J., 4,655,726, Cl. 446-268.000.
Choy, Terence A.; and Hartleben, Harold A., 4,668,205, Cl. 446-230.000.
Choy, Terence A.; and Hartleben, Harold A., 4,682,969, Cl. 446-279.000.
Crain, Philip W.; and Openshaw, James D., 4,669,657, Cl. 238-10.00A.
Crosby, Michael A.; and Foss, Art J., 4,695,262, Cl. 446-236.000.
Crosson, Peter; Sanchez, Terry; Gray, Kevin; and Goldstein, Samuel M., 4,690,658, Cl. 446-429.000.
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Herring, Donald E.; and Wang, Lawrence C., 4,673,373, Cl. 446-378.000.
Kelley, William, 4,673,374, Cl. 446-383.000.
Kelley, William J.; and Wittenberg, Mark, 4,657,518, Cl. 446-354.000.
Lee, Sam Y., 4,714,446, Cl. 446-311.000.
Marason, Gabriel, Jr.; and Templeton, James S., 4,655,723, Cl. 446-241.000.
Ostendorff, Eric C.; and Tucker, James I., Jr., 4,715,843, Cl. 446-429.000.
Quinn, Gregory F.; Wulff, Virgil W.; and Schroeder, Robert F., 4,662,857, Cl. 446-371.000.
Renger, Larry H.; and Gross, Raymond J., 4,655,720, Cl. 446-61.000.
Rich, Hubert A.; Filoseta, Miva A.; and Ostendorff, Eric C., 4,659,320, Cl. 446-435.000.
Swisher, Gary R.; and Meggs, Keith G., 4,655,727, Cl. 446-470.000.
Torres, Ronald; Mayer, Edward; and Nelson, Steve, 4,696,656, Cl. 446-376.000.
Torres, Ronald L., 4,655,725, Cl. 446-246.000.
Mattelin, Antoon; and Paquet, Bert, to Siemens Aktiengesellschaft. Apparatus for the deflection of a light beam. 4,678,289, 7-7-87, Cl. 350-486.000.
Mattell, Inc.: *See*—
MacBain, Ronald H., 4,673,367, Cl. 446-4.000.
Mattera, Philip J.: *See*—
Hanson, Robert K.; Loeffler, Herbert H.; and Mattera, Philip J., 4,685,387, Cl. 99-450.400.
Mattern, John; and Kadron, Don G., to Westinghouse Electric Corp. Phase coherent decoy radar transmitter. 4,646,098, 2-24-87, Cl. 342-14.000.
Mattes, Bernhard; Oswald, Klaus; and Suchowerskyj, Wadym, to Robert Bosch GmbH. Extended response trigger circuit. 4,638,179, 1-20-87, Cl. 307-10.0SB.
Mattes, Bernhard; Mausner, Eberhard; and Suchowerskyj, Wadym, to Robert Bosch GmbH. Circuit arrangement for registering false release signals for a restraint system. 4,641,041, 2-3-87, Cl. 307-10.00R.
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Gademann, Lothar; Mattes, Bernhard; Mausner, Eberhard; Suchowerskyj, Wadym; and Rittmannsberger, Norbert, 4,700,973, Cl. 280-735.000.
Mattes, Gunther; and Ortmanns, Gunter, to Saint Gobain Vitrage. Process for coating glass with a film of tin oxide. 4,707,383, 11-17-87, Cl. 427-168.000.
Mattes, M. Jules; Lewis, John L., Jr.; Lloyd, Kenneth O.; Old, Lloyd J.; and Cordon-Cardo, Carlos, to Sloan-Kettering Institute. Monoclonal antibodies to ovarian, cervical and uterine human cancers and method of diagnosis. 4,666,845, 5-19-87, Cl. 435-240.000.
Mattes, M. Jules: *See*—
Cairncross, J. Gregory; Mattes, M. Jules; Beresford, H. Richard; Albino, Anthony P.; Houghton, Alan N.; Lloyd, Kenneth O.; and Old, Lloyd J., 4,642,291, Cl. 435-240.000.
Mattes, Michael F.; and Dorland, Mark A., to SSI Technologies, Inc. Dual magnetic coil driver and monitor sensor circuit. 4,712,648, 12-15-87, Cl. 184-6.400.
Matteson, Donald S.; and Hurst, Gerald D., to Washington State University Research Foundation, Inc. Preparation of α,α-dihaloalkyl boronic esters. 4,701,545, 10-20-87, Cl. 558-298.000.
Matteson, Michael J., to Georgia Tech Research Corporation. Automated interfacial tensiometer. 4,697,451, 10-6-87, Cl. 73-64.400.
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Phillips, Roger W.; Shevlin, Craig M.; and Matteucci, John S., 4,702,963, Cl. 428-426.000.
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Matteuzzi, Claudio; and Matteuzzi, Emilio, 4,683,931, Cl. 157-13.000.
Matth. Hohner AG: *See*—
Zacharias, Ernst, 4,704,938, Cl. 84-377.000.

Matthaei, Dieter: *See*—
Frahm, Jens; Haase, Axel; Matthaei, Dieter; Haenicke, Wolfgang; and Merboldt, Klaus-Dietmar, 4,707,658, Cl. 324-309.000.

Matthaei, Horst D.: *See*—
Bohg, Armin; Matthaei, Horst D.; and Zimmermann, Volker, 4,664,543, Cl. 400-174.000.

Matthaei, Lothar: *See*—
Kossmann, Heribert; Matthaei, Lothar; Ley, Gregor; Wistuba, Eckehardt; and Wulgaris, Savas, 4,636,548, Cl. 524-524.000.
Mueller-Mall, Rudolf; Melan, Michael; Wistuba, Eckehardt; and Matthaei, Lothar, 4,654,397, Cl. 524-460.000.

Matthas, Karl H.: *See*—
Dressler, Helmut; Engenhart, Peter; Jahnel, Klaus; Kochendorfer, Heinrich; Kuhn, Ulrich; Matthas, Karl H.; and Schuster, Kurt, 4,635,173, Cl. 362-294.000.

Matthes, Harley H., to Risdon Corporation. Fluid dispenser. 4,685,596, 8-11-87, Cl. 222-389.000.

Matthews, Anthony: *See*—
Mark, John G.; Brown, Alison K.; and Matthews, Anthony, 4,634,283, Cl. 356-350.000.

Matthews, Bernard R.: *See*—
Freakley, Philip K.; Matthews, Bernard R.; and Giffin, Henry D., 4,657,871, Cl. 436-55.000.

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Matthews, David, to Communications Satellite Corporation. BPSK Costas-type PLL circuit having false lock prevention. 4,713,630, 12-15-87, Cl. 331-4.000.

Matthews, David G. Connecting structure for a hub and fan blade. 4,652,169, 3-24-87, Cl. 403-261.000.

Matthews, Demetreos N.: *See*—
Rim, Yong S.; and Matthews, Demetreos N., 4,668,834, Cl. 585-12.000.

Matthews, Donald R. Ski climber. 4,666,178, 5-19-87, Cl. 280-604.000.

Matthews, Gordon H.; Tansil, Thomas B.; and Fannin, Michael L., to VMX, Inc. Electronic audio communications systems network. 4,640,991, 2-3-87, Cl. 379-88.000.

Matthews, Gordon H.; Tansil, Thomas B.; and Fannin, Michael L., to VMX, Inc. Electronic audio communications system with versatile user accessibility. 4,652,700, 3-24-87, Cl. 379-89.000.

Matthews, Gordon H. Apparatus for automatically detecting and playing desired audio segments over a broadcast receiver. 4,682,370, 7-21-87, Cl. 455-166.000.

Matthews, Graham L.: *See*—
Yin, Candido C.; and Matthews, Graham L., 4,636,227, Cl. 55-74.000.

Matthews International Corporation: *See*—
Hancovsky, John P., 4,659,127, Cl. 294-50.700.

Matthews, John A.; Striebel, Edmund E.; Sepulveda, Domingo; and Pane, Francis C., Jr.; to United Technologies Corporation. Circumferentially area ruled duct. 4,677,828, 7-7-87, Cl. 60-751.000.

Matthews, John A.: *See*—
Coburn, Robert E.; and Matthews, John A., 4,640,092, Cl. 60-39.360.
Coburn, Robert E.; and Matthews, John A., 4,686,823, Cl. 60-39.320.

Matthews, John C.: *See*—
Anderson, Paul T.; Irwin, Lawrence; Matthews, John C.; and Paugh, Charles E., 4,679,378, Cl. 53-405.000.
Anderson, Paul T.; Irwin, Lawrence; Matthews, John C.; and Paugh, Charles E., 4,694,634, Cl. 53-88.000.

Matthews, Kenneth B.; Beckett, Christine A.; Smith, David E.; and Davidson, Richard R., to Blue Circle Industries, PLC. Compositions comprising mineral particles in suspension and method of treating aqueous systems therewith. 4,711,727, 12-8-87, Cl. 210-727.000.

Matthews, Larry S.; and Goldstein, Steven A., to University of Michigan, Regents of. Prosthesis interface surface and method of implanting. 4,659,331, 4-21-87, Cl. 623-20.000.

Matthews, Larry S.; and Goldstein, Steven A., to University of Michigan, Regents of the. Flexible connecting shaft for intramedullary reamer. 4,706,659, 11-17-87, Cl. 128-92.0VD.

Matthews, Lloyd E.; and Nowaczyk, Philip J., to Zenith Electronics Corporation. Regulator with rectifier IR drop compensation. 4,652,987, 3-24-87, Cl. 363-89.000.

Matthews, Norman G.: *See*—
Nugent, John L.; Rush, George C.; and Matthews, Norman G., 4,707,865, Cl. 328-14.000.

Matthews, Randall S.: *See*—
Loomans, Maurice E.; Matthews, Randall S.; and Miller, Joseph A., 4,708,966, Cl. 514-687.000.

Matthews, Richard S.: *See*—
Rhum, David; and Matthews, Richard S., 4,650,851, Cl. 528-354.000.

Matthews, Robert: *See*—
Davis, Cecil J.; Matthews, Robert; and Hildenbrand, Randall C., 4,687,542, Cl. 156-643.000.

Matthews, Robert K., to Mechanical Separations, Inc. Sheet handling and separator apparatus and method. 4,664,581, 5-12-87, Cl. 414-330.000.

Matthews, Ronald; and Jeczmen, John J., to Harris Preble Company. Chain break safety device. 4,696,375, 9-29-87, Cl. 187-58.000.

Matthews, Steven L.: *See*—
Saleh, Lotfy L.; Turton, John A.; and Matthews, Steven L., 4,642,860, Cl. 28-269.000.

Matthews Studio Electronics: *See*—
Nettmann, Ernst F., 4,683,770, Cl. 74-425.000.

Matthews, Thomas A.; Fischer, Walter; and Petzwinkler, Lucas. Automobile brake locking system. 4,678,068, 7-7-87, Cl. 188-353.000.

Matthews, Thomas P.: *See*—
Sullivan, Thomas M.; Pleva, Robert M.; and Matthews, Thomas P., 4,659,876, Cl. 379-96.000.

Matthews, Thomas R.: *See*—
Eppstein, Deborah A.; Fraser-Smith, Elizabeth; and Matthews, Thomas R., 4,684,625, Cl. 514-19.000.

Matthias, Eugen: *See*—
von Sinsderhausern, Francis; and Matthias, Eugen, 4,656,897, Cl. 82-2.00B.

Matthias, Guenther: *See*—
Kraus, Friedrich; Matthias, Guenther; Wittmann, Otto; and Diem, Hans, 4,684,690, Cl. 524-419.000.
Merkel, Dieter; Maehlhuler, Wolfgang; Diem, Hans; and Matthias, Guenther, 4,700,000, Cl. 562-606.000.

Matthias, Terry R.: *See*—
Barr, John D.; Matthias, Terry R.; and Taylor, Malcolm R., 4,669,556, Cl. 175-329.000.

Matthias, William T.: *See*—
Koek, Kevin C.; Matthias, William T.; and Barton, James T., 4,715,682, Cl. 350-253.000.

Matthiessen, Gunter: *See*—
Grein, Lutz; and Matthiessen, Gunter, 4,640,455, Cl. 228-176.000.

Matthiesen, Martin, to Raychem Corporation. Electrical devices containing conductive polymers. 4,689,475, 8-25-87, Cl. 219-553.000.

Matthiessen, Hans, to Dragerwerk Aktiengesellschaft. Method for sensitizing and stabilizing the operating condition of a semiconductor gas sensor and a semiconductor gas sensor device therefor. 4,663,958, 5-12-87, Cl. 73-1.000G.

Matthiessen, Hans; and Winkler, Jorg, to Dragerwerk Aktiengesellschaft. Self-contained portable photoelectric gas measuring and warning apparatus. 4,707,614, 11-17-87, Cl. 250-576.000.

Matthiessen, Robert E.: *See*—
Holt, Alyn R.; and Matthiessen, Robert E., 4,715,574, Cl. 248-297.100.

Matthijsse, Pieter: *See*—
De Blok, Cornelis M.; and Matthijsse, Pieter, 4,645,923, Cl. 250-227.000.

Matthys, Robert J., to Honeywell Inc. Voltage controlled oscillator with temperature compensation. 4,667,171, 5-19-87, Cl. 331-66.000.

Matthyssen, Ludovicus F. T.: *See*—
Kuypers, Leonardus P. C.; and Matthyssen, Ludovicus F. T., 4,701,421, Cl. 436-518.000.

Mattila, Heikki, to Sinisalo Sport OY. Protective garment. 4,700,407, 10-20-87, Cl. 2-23.000.

Mattila, Timo, to Halton Oy. Apparatus for identifying and recording bottles and/or bottle hampers. 4,656,510, 4-7-87, Cl. 358-101.000.

Mattingly, Carl S., to Presentation Systems, Inc.; and Mattingly, Carl S. Scraper for carpet seaming irons. 4,667,362, 5-26-87, Cl. 15-236.00R.

Mattingly, William B., III; Cabe, Alex W., Jr.; Chapus, Richard B.; and Sampson, Arthur J., Jr., to Johnson & Johnson. Coextruded apertured film sanitary napkin cover. 4,690,679, 9-1-87, Cl. 604-383.000.

Mattingly, William R.; and Trombly, Barry R., to Matrix Science Corporation. Quick-disconnect electrical connector coupling assembly for use with bayonet pin coupling system. 4,702,537, 10-27-87, Cl. 439-152.000.

Mattioli, Stefano; and Carrion, Hernan M. Semi-rigid penial prosthesis for the treatment of impotence in the erection. 4,666,428, 5-19-87, Cl. 128-79.000.

Mattis, Donald J.: *See*—
Lupoli, Peter J.; and Mattis, Donald J., 4,634,834, Cl. 219-208.000.
Lupoli, Peter J.; and Mattis, Donald J., 4,650,936, Cl. 200-16.00B.
Lupoli, Peter J.; and Mattis, Donald J., 4,694,128, Cl. 200-84.00R.
Lupoli, Peter J.; and Mattis, Donald J., 4,695,429, Cl. 422-49.000.
Westover, Brooke N.; Comerford, John J.; and Mattis, Donald J., 4,669,185, Cl. 29-882.000.

Mattis, John S.; Berth, Jorgen; and Locke, Gilbert E., to Raychem Corporation. Secure connector for coaxial cable. 4,648,684, 3-10-87, Cl. 339-177.00R.

Mattis, John S., to Raychem Corp. Center conductor seizure. 4,696,532, 9-29-87, Cl. 439-863.000.

Mattis, John S.: *See*—
McMills, Corey J.; Mattis, John S.; and Milroy, James C., 4,674,818, Cl. 439-275.000.

Mattison, George F., Jr.: *See*—
Barnhouse, Robert L.; Elo, James C.; Mattison, George F., Jr.; and Hart, Marshall, 4,660,272, Cl. 29-558.000.

Mattison, Phillip L.: *See*—
Kokko, Kent S.; and Mattison, Phillip L., 4,698,429, Cl. 546-179.000.
Tuominen, Francis W.; Swanson, Ronald R.; Mattison, Phillip L.; MacKay, Kenneth D.; and Glorvigen, Bradley W., 4,661,606, Cl. 548-497.000.

Mattison, Robert N. Fishing jig and method of making same. 4,672,766, 6-16-87, Cl. 43-17.600.

Mattison, Robert N. Illuminated fishing lure. 4,693,032, 9-15-87, Cl. 43-17.600.

Mattison, Robert N. Fishing lure. 4,700,504, 10-20-87, Cl. 43-42.330.

Mattner, Paul G.: *See*—
Houlihan, William J.; Mattner, Paul G.; and Smith, Joseph A., 4,670,600, Cl. 568-1.000.

Mattossovich, Maria, to Ricida Serrature S.R.L. Cylinder lock with interchangeable key. 4,712,399, 12-15-87, Cl. 70-364.00A.

Mattout, Richard, to Bertin & Cie. Method and apparatus for measuring the rheological characteristics of a fluid, in particular of a biological fluid such as blood. 4,643,021, 2-17-87, Cl. 73-59.000.
Mattes, Darryl F. Wing-in-ground effect air cushion vehicle. 4,660,670, 4-28-87, Cl. 180-117.000.
Mattox, Ernest M., to Portable Isokinetics, Inc. Wrist/ankle exercising apparatus. 4,641,832, 2-10-87, Cl. 272-67.000.
Mattox, Ernest M.; and Van Noord, Andrew J., to Portable Isokinetics, Inc. Hip and knee joint exercising apparatus. 4,699,376, 10-13-87, Cl. 272-131.000.
Mattscheck, Douglas; and Rogers, David E., to Schlegel Corporation. Remotely activatable seal. 4,676,025, 6-30-87, Cl. 49-477.000.
Mattson, Clyde E., to Kearney & Trecker Corporation. Rotary shuttle for machine tools. 4,673,076, 6-16-87, Cl. 198-346.200.
Mattson, David, to Farmland Industries, Inc. Apparatus for adding liquid polyoxalene to feeds. 4,664,028, 5-12-87, Cl. 99-487.000.
Mattson, Fred P. Mower attachment for farm tractors. 4,688,375, 8-25-87, Cl. 56-7.000.
Mattson, Gary L., to Xebec Development Partners, Ltd. Disk drive control system. 4,656,538, 4-7-87, Cl. 360-77.000.
Mattson, Glenn D., to Omaha Cold Storage Terminals. By-product chiller and method for using same. 4,700,546, 10-20-87, Cl. 62-64.000.
Mattson, Kenneth V. *See*—
Brodsky, David L.; Crane, Stephen M.; Fischer, Paul M.; and Mattson, Kenneth V., 4,693,663, Cl. 414-735.000.
Mattson, Philip D. Surgical instrument for severing an umbilical cord. 4,648,401, 3-10-87, Cl. 128-305.000.
Mattson, Richard L. *See*—
Gladney, Henry M.; Lorch, Douglas J.; and Mattson, Richard L., 4,714,992, Cl. 364-200.000.
Gladney, Henry M.; Lorch, Douglas J.; and Mattson, Richard L., 4,714,996, Cl. 364-300.000.
Mattson, Rodney A.; and Williams, Leslie J., to Picker International, Inc. Bone mineral analysis phantom. 4,663,772, 5-5-87, Cl. 378-18.000.
Mattson, Rodney A.; and DeMeester, Gordon D., to Picker International, Inc. Apparatus and method for radiation attenuation. 4,672,648, 6-9-87, Cl. 378-4.000.
Mattson, Rodney A. *See*—
DeMeester, Gordon D.; and Mattson, Rodney A., 4,686,692, Cl. 378-4.000.
Mattson, Ronald J. *See*—
Yevich, Joseph P.; and Mattson, Ronald J., 4,668,687, Cl. 514-252.000.
Mattson, Timothy J. *See*—
Grezerson, Stanley M.; Haight, Robert F.; and Mattson, Timothy J., 4,650,048, Cl. 192-3.570.
Mattson, Walter E. *See*—
Gilman, Paul S.; Jatkar, Arun D.; Donachie, Stephen J.; Woodward, Winfred L., III; and Mattson, Walter E., 4,668,282, Cl. 75-0.508.
Gilman, Paul S.; Jatkar, Arun D.; Donachie, Stephen; Woodard, Winfred L., III; and Mattson, Walter E., 4,668,470, Cl. 419-32.000.
Mattsson, Lennart P. J. *See*—
Agoston, Andras; and Mattsson, Lennart P. J., 4,705,990, Cl. 315-39.550.
Matty, Thomas C., to Westinghouse Electric Corp. Cable stereo apparatus. 4,698,670, 10-6-87, Cl. 358-86.000.
Matukas, Victor J., to University of Alabama, Board of Trustees of the. Syringe for extrusion of wetted, particulate material. 4,645,488, 2-24-87, Cl. 604-59.000.
Matulewicz, William N., to First Brands Corporation. Organophosphate and silicate containing antifreeze. 4,684,475, 8-4-87, Cl. 252-75.000.
Matulewicz, William N. *See*—
Cosin, Thomas R., Jr.; Victor B.; Matulewicz, William N.; McKenzie, Dale A.; and Mohr, Paul H., 4,664,833, Cl. 252-75.000.
Leung, Pak S.; and Matulewicz, William N., 4,684,474, Cl. 252-75.000.
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Matumura, Takeshi; and Himeno, Yoshiaki, to Fuji Photo Optical Co., Ltd. Projection lens. 4,634,238, 1-6-87, Cl. 350-432.000.
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Shibahashi, Yutaka; Nakasuji, Norikazu; Kataoka, Takashi; Inagaki, Hiroshi; Kito, Tutomu; Ozaki, Masaharu; Matunami, Nobuaki; Ishimura, Naoya; and Fujita, Katuyuki, 4,681,791, Cl. 428-96.000.
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Matuschek, Josip, to Textron, Inc. Rivet installation method. 4,688,317, 8-25-87, Cl. 29-509.000.
Matuska, David G.; and Fredenburgh, Evan A., to United Technologies Corporation. Filament wound structure for use as a torque drive. 4,666,753, 5-19-87, Cl. 428-137.000.
Matuska, David G., to United Technologies Corporation. Filament wound structure having filament wound reinforcing rings for use as a torque drive. 4,695,340, 9-22-87, Cl. 156-161.000.
Matuska, David G.; and Fredenburgh, Evan A., to United Technologies Corporation. Filament wound structure for use as a torque drive. 4,695,341, 9-22-87, Cl. 156-161.000.
Matuska, David G. *See*—
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Matusz, John M., to Westinghouse Electric Corp. Steam generator wrapper closure and method of installing the same. 4,644,908, 2-24-87, Cl. 122-511.000.
Matuszak, Edward A.; Lee, Yanien; and Gillmore, Stephen R., to Borden, Inc. Low fat content food chips and method of preparation. 4,640,843, 2-3-87, Cl. 426-560.000.
Matuura, Hiroyuki. *See*—
Harada, Yoshiaki; Nakashibu, Akio; Matuura, Hiroyuki; Okino, Tetsou; Fujitani, Hajime; Yamasaki, Kenichi; Doi, Yasuhumi; and Yurugi, Shigenobu, 4,699,720, Cl. 210-762.000.
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Ezer, Elemer; Harsanyi, Kalman; Petho, Hajnalka V.; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas, Marta; and Kallay, Anna, 4,713,788, Cl. 514-346.000.
Matviya, Thomas M.; Gebhard, Robert S.; and Greenbank, Michael, to Calgon Carbon Corporation. Mercury adsorbent carbon molecular sieves and process for removing mercury vapor from gas streams. 4,708,853, 11-24-87, Cl. 423-210.000.
Matyas, Bela; Gerber, Pal; Solymos, Andras; Kaszanitzky, Ferenc; Panto, Gyorgy; and Leffler, Janos, to Tatabanyai Szenbanyak. Process for recovering rare metals from the combustion residue of coal by digestion. 4,649,031, 3-10-87, Cl. 423-20.000.
Matyas, Laszlo, to Rotoclean Industrial Corporation. Multistage rotary dust collector. 4,654,059, 3-31-87, Cl. 55-283.000.
Matyas, Stephen M., to International Business Machines Corporation. Offline PIN validation with DES. 4,661,658, 4-28-87, Cl. 380-23.000.
Matyas, Stephen M. *See*—
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Matyskella, James J. *See*—
Winland, Virgil T.; and Matyskella, James J., 4,697,611, Cl. 137-14.000.
Matz, Gary F. *See*—
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Matz, James. *See*—
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Matza, Edward C. *See*—
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Matza, Stephen D.; Ellington, William E.; and Fleming, Henry C., III, to Shell Oil Company. Controlling sulfide scavenger content of drilling fluid. 4,658,914, 4-21-87, Cl. 175-40.000.
Matzat, Norbert; and Schreiber, Hans, to Optimol-Oelwerke GmbH. Lubricating grease composition, its production and use. 4,692,255, 9-8-87, Cl. 252-51.50A.
Matzen, Walter T., Jr., to Honeywell Inc. Semiconductor apparatus. 4,658,282, 4-14-87, Cl. 357-34.000.
Matzkanin, Randy L., to Alternative Energy Resources. Solar collector assembly and kit. 4,706,650, 11-17-87, Cl. 126-450.000.
Matzkin-Bridger, Andrew. *See*—
Hale, Charles S.; Matzkin-Bridger, Andrew; and Morse, Ronald W., 4,690,487, Cl. 350-96.210.
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Matzner, Markus; and Papuga, Donald M., to Amoco Corporation. Novel polyetherimides. 4,642,327, 2-10-87, Cl. 525-434.000.
Matzner, Markus; and Papuga, Donald M., to Amoco Corporation. Novel poly(aryl ether ketone) polyester block copolymers. 4,668,744, 5-26-87, Cl. 525-397.000.
Matzner, Markus. *See*—
Harris, James E.; Berger, Abe; Choydekar, Vilas M.; Matzner, Markus; and Spanswick, James, 4,713,438, Cl. 528-337.000.
Matzuk, Terrance, to Dymax Corporation. Concentric biopsy probe. 4,671,292, 6-9-87, Cl. 128-660.000.
Matzuk, Terrance, to Dymax Corporation. Tissue signature tracking transceiver. 4,676,105, 6-30-87, Cl. 73-602.000.
Matzuk, Terrance, to Dymax Corporation. Tissue signature tracking transceiver having upconverted IF amplification. 4,691,571, 9-8-87, Cl. 73-632.000.
Mau, Volker, to Rath, Franz Joseph. Flock transfer sheet patch. 4,652,478, 3-24-87, Cl. 428-43.000.
Maubois, Jean-Louis. *See*—
Roger, Loic; Maubois, Jean-Louis; Brule, Gerard; and Piot, Michel, 4,711,953, Cl. 530-366.000.
Maucher, Edmund, to Luk Lamellen und Kupplungsbau GmbH. Clutch plate. 4,684,007, 8-4-87, Cl. 192-106.200.

Maucher, Paul, to Luk Lamellen und Kupplungsbau GmbH. Assembly for taking up and compensating for torque-induced shocks. 4,638,684, 1-27-87, Cl. 74-574.000.

Maucher, Paul; and Huber, Lothar, to Luk Lamellen und Kupplungsbau GmbH. Friction clutch and method of assembling the same. 4,660,700, 4-28-87, Cl. 192-89.00B.

Maucher, Paul; and Friedmann, Oswald, to Luk Lamellen und Kupplungsbau GmbH. Apparatus for transmitting torque in motor vehicles. 4,681,199, 7-21-87, Cl. 192-70.230.

Maucher, Paul; and Honemann, Rudolf, to Luk Lamellen und Kupplungsbau GmbH. Clutch plate. 4,700,821, 10-20-87, Cl. 192-106.200.

Maucher, Paul; and Honemann, Rudolf, to LUK Lamellen und Kupplungsbau GmbH. Torsion damping assembly for clutch plates. 4,700,822, 10-20-87, Cl. 192-106.200.

Maucher, Paul, to Luk Lamellen und Kupplungsbau GmbH. Declutching device. 4,708,230, 11-24-87, Cl. 192-98.000.

Mauchien, Patrick; and Cauchetier, Philippe, to Commissariat a l'Energie Atomique. Process for the determination of traces of uranium in solution by time resolution spectrofluorimetry. 4,641,032, 2-3-87, Cl. 250-459.100.

Maudal, Inge; and Moss, John F., to General Dynamics, Pomona Division. Directional control of rockets using elastic deformation of structural members. 4,648,567, 3-10-87, Cl. 244-3.240.

Maudal, Inge, to General Dynamics, Pomona Division. Open-loop control system and method utilizing control function based on equivalent closed-loop linear control system. 4,674,029, 6-16-87, Cl. 364-148.000.

Maudgal, Shubha: *See*—
St. Clair, Terry L.; Maudgal, Shubha; and Pratt, J. Richard, 4,713,439, Cl. 528-353.000.

Maudlin, Wendell E., to York International Corp. Universal motor control system. 4,673,850, 6-16-87, Cl. 318-305.000.

Maudsley, Andrew, to Advanced NMR Systems, Inc. NMR Fourier imaging from multiple echoes. 4,689,567, 8-25-87, Cl. 324-309.000.

Maudsley, Andrew A., to Advanced NMR Systems, Inc. NMR phase encoding using phase varying rf pulses. 4,689,566, 8-25-87, Cl. 324-309.000.

Maudsley, Andrew A., to Advanced NMR Systems, Inc. High dynamic range in NMR data acquisition. 4,703,267, 10-27-87, Cl. 324-307.000.

Maue, Dale N.; and Lund, Richard A., to MTS Systems Corporation. Servovalve drive electronics improvements. 4,679,595, 7-14-87, Cl. 137-624.130.

Maue, H. Winston; Henderson, Brian E.; and Szudarek, Robert G., to United Technologies Automotive, Inc. Programmable junction box. 4,689,718, 8-25-87, Cl. 361-360.000.

Mauer, Daniel E.; and Moniotte, Philippe G., to Monsanto Europe, S.A. Metal complexes useful as rubber/metal bonding promoters. 4,654,271, 3-31-87, Cl. 428-465.000.

Mauer, Daniel E.: *See*—
Delseth, Jean-Marc; Mauer, Daniel E.; and Moniotte, Philippe G., 4,704,334, Cl. 428-458.000.

Mauer, Dieter; and Clauss, Wolfgang, to USM Corporation. Rivet/stud feeder. 4,662,206, 5-5-87, Cl. 72-391.000.

Mauer, George W.: *See*—
McCollum, Gregory J.; Scriven, Roger L.; Christenson, Roger M.; Mauer, George W.; and Zwack, Robert R., 4,711,917, Cl. 523-400.000.

Mauer, John L., IV: *See*—
Anantha, Narasipur G.; Bhatia, Harsaran S.; Gaur, Santosh P.; and Mauer, John L., IV, 4,691,435, Cl. 437-175.000.
Joy, Richard C.; Kemlage, Bernard M.; and Mauer, John L., IV, 4,688,069, Cl. 357-34.000.

Mauermann, Heiko: *See*—
Marks, Tobin J.; and Mauermann, Heiko, 4,668,773, Cl. 534-15.000.
Marks, Tobin J.; and Mauermann, Heiko, 4,716,257, Cl. 585-275.000.

Mauersberger, Karl H.: *See*—
Mauersberger, Winfrid; and Mauersberger, Karl H., 4,651,960, Cl. 248-292.100.

Mauersberger, Winfrid; and Mauersberger, Karl H., to Mainz & Mauersberger Alu-System GmbH. Motor driven mounting apparatus for an irradiation device such as a sunlamp or the like. 4,651,960, 3-24-87, Cl. 248-292.100.

Mauger, John W.: *See*—
Pollak, Henry M.; and Mauger, John W., 4,664,165, Cl. 144-117.00R.

Mauget, Christian: *See*—
Fernandez, Luis; and Mauget, Christian, 4,676,947, Cl. 376-290.000.

Maughan, William S.: *See*—
Suggi-Liverani, Furio; Maughan, William S.; and Wainwright, Ronald C., 4,699,273, Cl. 209-580.000.

Maul, Bernhard; Zobl, Gunter; and Kusch, Hans-Jurgen, to Heidelberger Druckmaschinen AG. Stack stop assembly on a sheet feeder of a printing press. 4,690,394, 9-1-87, Cl. 271-11.000.

Maulandi, Aymon A., to Square D Company. Mechanical time delay mechanism. 4,639,561, 1-27-87, Cl. 200-33.00R.

Mauldin, Charles H., to Exxon Research & Engineering Co. Start-up with ruthenium catalysts. 4,647,592, 3-3-87, Cl. 518-715.000.

Mauldin, Charles H.; Davis, Stephen M.; and Arcuri, Kym B., to Exxon Research and Engineering Company. Cobalt catalysts for the conversion of methanol and for Fischer-Tropsch synthesis to produce hydrocarbons. 4,663,305, 5-5-87, Cl. 502-304.000.

Mauldin, Charles H., to Exxon Research and Engineering Company. Improved cobalt catalysts, and use thereof for Fischer-Tropsch synthesis. 4,670,475, 6-2-87, Cl. 518-715.000.

Mauldin, Donald M.; and Jones, Richard E., III. Passive mobilizer. 4,715,361, 12-29-87, Cl. 128-52.000.

Mauldin, Robert H.: *See*—
Reinhart, Charles W.; and Mauldin, Robert H., 4,691,080, Cl. 174-88.00R.

Maulding, Donald R., to American Cyanamid Company. Method for the preparation of anilinofumarate. 4,675,432, 6-23-87, Cl. 560-44.000.

Maund, John K., to Admiral Design and Research Limited. Radiometer. 4,702,618, 10-27-87, Cl. 374-121.000.

Maund, John K.: *See*—
*Jones, David Mervyn; and Maund, John K., 4,676,222, Cl. 126-91.00A.

Mauney, Glenn H., to BASF Corporation. Spindle top. 4,656,823, 4-14-87, Cl. 57-73.000.

Mauntel, Richard W.: *See*—
Cosentino, Stephen J.; Rugg, James M.; and Mauntel, Richard W., 4,701,775, Cl. 357-23.120.

Maupin, Elizabeth G.: *See*—
Maupin, Judy; and Maupin, Elizabeth G., 4,653,292, Cl. 63-12.000.

Maupin, Judy; and Maupin, Elizabeth G. Earring kit. 4,653,292, 3-31-87, Cl. 63-12.000.

Maurel, Jacques A. Seat back height adjustment mechanism. 4,662,682, 5-5-87, Cl. 297-353.000.

Maurel, Jean-Joseph: *See*—
Carratt, Michel; Hakoun, Roland; Maurel, Jean-Joseph; Pecastaings, Serge; and Repain, Pascal, 4,688,891, Cl. 350-96.240.

Maurel, Jean-Philippe: *See*—
Berillon, Jean-Bernard; Daulon, Jean-Marc; and Maurel, Jean-Philippe, 4,667,720, Cl. 152-501.000.

Maurel, Pierre; Lamerant, Jean-Michel; and Pallez, Francois, to Aluminium Pechiney. Selective removal of arsenical material in the course of an alkaline process for treating a uraniferous and/or molybdeniferous ore by means of a magnesium compound. 4,634,579, 1-6-87, Cl. 423-17.000.

Maurer, Albert: *See*—
Rieger, Wolfhart; Gauckler, Ludwig; Maurer, Albert; and Kampfer, Konrad, 4,690,763, Cl. 210-496.000.

Maurer, Albrecht, to Nukem Gmbh. Method and apparatus for ultrasonic testing of defects. 4,669,312, 6-2-87, Cl. 73-600.000.

Maurer, Allan: *See*—
Saldin, Neil P.; Strum, Bruce J.; Livoti, Michael V.; and Maurer, Allan, 4,665,501, Cl. 364-900.000.

Maurer, Arnolf; and Siebold, Horst, to Siemens Aktiengesellschaft. Gradient coil system for a nuclear spin tomography installation. 4,636,729, 1-13-87, Cl. 324-318.000.

Maurer, Charles J., to Celanese Corporation. Process for preparing oligomeric glycol esters of dicarboxylic acids. 4,670,580, 6-2-87, Cl. 560-89.000.

Maurer, Donald D., to Empi, Inc. Interrupted drive limb motion apparatus. 4,653,479, 3-31-87, Cl. 128-25.00B.

Maurer, Elmer W.: *See*—
Bistline, Raymond G., Jr.; Maurer, Elmer W.; Smith, Frank D.; and Linfield, Warner M., 4,663,353, Cl. 514-617.000.

Maurer Engineering Inc.: *See*—
Maurer, William C.; and McDonald, William J., 4,665,997, Cl. 175-107.000.

Maurer, Fritz, to Bayer Aktiengesellschaft. Hydrazine-thiocarboxylic acid O-carbamoylmethyl esters. 4,658,025, 4-14-87, Cl. 540-607.000.

Maurer, Fritz, to Bayer Aktiengesellschaft. Preparation of pyrimidinyl phosphoric acid derivatives and intermediates. 4,665,175, 5-12-87, Cl. 544-243.000.

Maurer, Fritz; Homeyer, Bernhard; and Becker, Benedikt, to Bayer Aktiengesellschaft. O-ethyl O-isopropyl O-(2-tert.-butylpyrimidin-5-yl)thionophosphate, composition and method of combatting soil insects with it. 4,666,894, 5-19-87, Cl. 514-86.000.

Maurer, Fritz; Homeyer, Bernard; and Stendel, Wilhelm, to Bayer Aktiengesellschaft. Pyridyl-thionophosphoric acid ester useful as pesticides. 4,678,776, 7-7-87, Cl. 514-89.000.

Maurer, Fritz, to Bayer Aktiengesellschaft. Preparation of pyrimidyl phosphoric acid derivatives and intermediates. 4,656,290, 8-11-87, Cl. 544-243.000.

Maurer, Fritz; and Grohe, Klaus, to Bayer Aktiengesellschaft. Aminoacrylic acid derivatives. 4,695,646, 9-22-87, Cl. 560-43.000.

Maurer, Fritz, to Bayer Aktiengesellschaft. Process for preparing O-pyrimidinyl N,N-dimethyl-carbamates. 4,703,122, 10-27-87, Cl. 544-319.000.

Maurer, Fritz: *See*—
Forster, Heinz; Diehr, Hans-Joachim; Maurer, Fritz; Klauke, Erich; Eue, Ludwig; Santel, Hans-Joachim; Schmidt, Robert R.; Reinecke, Paul; and Hanssler, Gerd, 4,708,731, Cl. 71-90.000.

Maurer, Gerald L., to National Research Laboratories. Methods and compositions for treating dental structures. 4,652,444, 3-24-87, Cl. 424-49.000.

Maurer, Gerald L., to National Research Laboratories. Methods and compositions for treating inflammation or arthritis. 4,680,309, 7-14-87, Cl. 514-499.000.

Maurer, Gerald L., to National Research Laboratories. Method and compositions for treating dental structures. 4,708,864, 11-24-87, Cl. 424-49.000.

Maurer, Ghislain: *See*—
Michelet, Jacques; and Maurer, Ghislain, 4,646,316, Cl. 373-72.000.
Michelet, Jacques; and Maurer, Ghislain, 4,685,112, Cl. 373-72.000.

Maurer, Hans W.; and Watkins, Hiawatha P., to Westvaco Corporation. Tandem calender. 4,670,102, 6-2-87, Cl. 162-361.000.

Maurer, Herman J.; and Shumaker, John F., to J. I. Case Company. Quick coupling and release mechanism for buckets. 4,643,631, 2-17-87, Cl. 414-723.000.
Maurer, John J.: *See*—
Schulz, Donald N.; Berluche, Enock; Maurer, John J.; and Bock, Jan. 4,663,408, Cl. 526-240.000.
Maurer, Manfred; Orth, Winifried; and Fickert, Werner, to Rutgerswerke Aktiengesellschaft. Process for the production of zinc 2-mercaptopyridine N-oxide. 4,659,830, 4-21-87, Cl. 546-6.000.
Maurer, Manfred; Orth, Winfried; and Fickert, Werner, to Rutgerswerke Aktiengesellschaft. Preparation of 2,5-diloweralkyl-1,4:3,6-dianhydrosorbitols. 4,659,846, 4-21-87, Cl. 549-464.000.
Maurer, Martin, to Hydrel AG. Punch press for cutting windows in a ball cage. 4,633,744, 1-6-87, Cl. 83-128.000.
Maurer, Martin: *See*—
Hayd, Axel; Meinke, Peter; Maurer, Martin; and Schwarz, Joachim, 4,636,607, Cl. 219-121.0LM.
Maurer, Paul-Gerhard; and Neupert, Daniel, to Nukem GmbH. Process for the chemical thermodecomposition of higher halogenated hydrocarbons. 4,654,203, 3-31-87, Cl. 423-240.000.
Maurer, Robert; and Epstein, Peter C. Meter provers. 4,637,244, 1-20-87, Cl. 73-3.000.
Maurer, Robert: *See*—
Berrod, Gerard; Maurer, Robert; Brun, Jean-Louis; Bosc, Philippe; and Allemand, Pierre, 4,665,985, Cl. 166-281.000.
Maurer, Robert J.: *See*—
Zafred, Paolo R.; Veronesi, Luciano; and Maurer, Robert J., 4,672,741, Cl. 29-726.000.
Maurer, Thomas; and Devrient, Ludwig, to GAO Gesellschaft fur Automation und Organisation mbH. Method of producing an identification card. 4,672,891, 6-16-87, Cl. 101-32.000.
Maurer, William C.; and McDonald, William J., to Maurer Engineering Inc. Pressure balanced bearing assembly for downhole motors. 4,665,997, 5-19-87, Cl. 175-107.000.
Maurer, William C.: *See*—
McDonald, William J.; Pittard, Gerard T.; Maurer, William C.; Wasson, Michael R.; and Herben, William C., 4,694,913, Cl. 175-61.000.
Maures, Michel; Pasdeloup, Jacques; and Lespinasse, Patrick, to Societe Nationale des Poudres et Explosifs. Process for the manufacture of combustible articles by embossing combustible paper and combustible articles thus produced. 4,705,655, 11-10-87, Cl. 264-3.400.
Maures, Michel: *See*—
Brasquies, Alain; and Maures, Michel, 4,649,827, Cl. 102-431.000.
Maurice, Claude G.: *See*—
Kortschinski, Jurt; Lat, Michael V.; Maurice, Claude G.; and Tickner, Derek C., 4,710,847, Cl. 361-125.000.
Maurice, Paul E. Poultry brooder. 4,658,758, 4-21-87, Cl. 119-32.000.
Maurice, Thomas A. Security device for real estate brokers. 4,641,505, 2-10-87, Cl. 70-63.000.
Mauro, Alex: *See*—
Schmidt, Richard; Stern, Howard; Mauro, Alex; and Ross, Joseph, 4,682,894, Cl. 356-375.000.
Stern, Howard; and Mauro, Alex, 4,702,605, Cl. 356-375.000.
Stern, Howard; Mauro, Alex; and Lee, Jay, 4,709,858, Cl. 239-296.000.
Mauro, George. Optical component positioning stage. 4,652,095, 3-24-87, Cl. 350-531.000.
Maus, Louis; Wittucki, Edward F.; and Warren, Leslie F., to Rockwell International Corporation. Process for applying an electrically conducting polymer to a substrate. 4,696,835, 9-29-87, Cl. 427-121.000.
Maus, Louis: *See*—
Warren, Leslie F., Jr.; Maus, Louis; and Hall, William F., 4,710,401, Cl. 427-121.000.
Maus, Wolfgang, to Interatom GmbH. Metallic catalyst body having thermal radiation protection. 4,713,361, 12-15-87, Cl. 502-2.000.
Mauser-Waldeck AG: *See*—
Willi, Hensel, 4,653,806, Cl. 297-300.000.
Mauser-Werke GmbH: *See*—
Marth, Peter, 4,693,679, Cl. 425-589.000.
Przytulla, Dietmar, 4,674,648, Cl. 220-72.000.
Mauser-Werke Oberndorf GmbH: *See*—
Band, Gerhard; and Ross, Gunther, 4,651,426, Cl. 33-1.00M.
Band, Gerhard; Berger, Gunter; and Walter, Kurt, 4,651,439, Cl. 33-559.000.
Bertiller, Roland; Kellner, Gerd; and Reudelsterz, Helmut, 4,633,755, Cl. 89-29.000.
Bertiller, Roland; Kellner, Gerd; and Reudelsierz, Helmut, 4,642,928, Cl. 42-77.000.
Kirsch, Hans-Peter, 4,642,897, Cl. 33-18.100.
Klingler, Otto; and Linder, Kurt, 4,660,296, Cl. 33-559.000.
Mauser, Wilfried: *See*—
Scheffler, Peter; Mauser, Wilfried; and Graziani, Thomas, 4,664,526, Cl. 366-106.000.
Mausner, Eberhard, to Voest-Alpine Aktiengesellschaft. Fuel injector nozzle with needle lift sensor. 4,667,511, 5-26-87, Cl. 73-119.00A.
Mausner, Eberhard: *See*—
Grademann, Lothar; Mattes, Bernhard; Mausner, Eberhard; Suchowerskyj, Wadym; and Rittmannsberger, Norbert, 4,700,973, Cl. 280-735.000.
Mattes, Bernhard; Mausner, Eberhard; and Suchowerskyj, Wadym, 4,641,041, Cl. 307-10.00R.
Mausner, Leonard F.: *See*—
Richards, Powell; Mausner, Leonard F.; and Prach, Thomas F., 4,707,322, Cl. 376-194.000.
Mausner, Marvin L.; and Meinstein, Siegfried, to Witco Corporation. Low water neutralization to produce a highly active alkaryl sulfonate. 4,690,785, 9-1-87, Cl. 260-505.00N.
Maust, Blair A.: *See*—
Dennison, Thomas M.; and Maust, Blair A., 4,636,014, Cl. 305-54.000.
Mauthe, Gerhard, to BBC Brown, Boveri & Company Ltd. Gas-blast switch. 4,658,108, 4-14-87, Cl. 200-148.00A.
Mauthe, Peter, to Hilti Aktiengesellschaft. Process and device for securing a fastening member in a borehole. 4,652,175, 3-24-87, Cl. 405-260.000.
Mauthe, Peter, to Hilti Aktiengesellschaft. Destructible cartridge for anchoring rods or the like. 4,706,806, 11-17-87, Cl. 206-219.000.
Mauthe, Peter: *See*—
Lang, Gusztav; and Mauthe, Peter, 4,651,875, Cl. 206-219.000.
Mautner, Jacob E., to E. J. Brooks Company. Security seal. 4,676,535, 6-30-87, Cl. 292-320.000.
Mautz, Karl E.: *See*—
Berglund, Robert K.; Mautz, Karl E.; and Tyldesley, Roger, 4,698,128, Cl. 156-643.000.
Mauvernay, Rolland-Yves: *See*—
Orsolini, Piero; Mauvernay, Rolland-Yves; and Deghenghi, Romano, 4,673,595, Cl. 427-213.320.
Mauvieux, Christian: *See*—
Beuneche, Daniel; Mauvieux, Christian; and Amiet, Pierre, 4,681,730, Cl. 376-252.000.
Mauvoisin, Rene: *See*—
Madsac, Michel; and Mauvoisin, Rene, 4,702,779, Cl. 148-16.600.
Mavilor Systemes S.A.: *See*—
Casanova, Damien, 4,639,629, Cl. 310-248.000.
Casanova, Damien, 4,684,838, Cl. 310-93.000.
Pluddemann, Gerhard, 4,680,721, Cl. 364-565.000.
Mavituna, Ferda: *See*—
Davies, Graham A.; and Mavituna, Ferda, 4,693,983, Cl. 435-284.000.
Mavros, Stratos, to Parmatic Filter Corporation. Separator assembly. 4,698,078, 10-6-87, Cl. 55-213.000.
Mawby, Harold S.; and Harris, Duane H., to White Consolidated Industries, Inc. Ice maker. 4,635,444, 1-13-87, Cl. 62-125.000.
Mawby, Harold S.; and Harris, Duane H., to White Consolidated Industries, Inc. Ice maker. 4,680,943, 7-21-87, Cl. 62-300.000.
Mawhinney, Daniel D., to RCA Corporation. Circuit for separating one type signal component from another. 4,638,808, 1-27-87, Cl. 128-653.000.
Mawhinney, Daniel D., to RCA Corporation. Codeable identifying tag and method of identification thereof. 4,646,090, 2-24-87, Cl. 342-44.000.
Mawhinney, Daniel D., to RCA Corporation. Dual frequency identification system. 4,647,931, 3-3-87, Cl. 342-44.000.
Mawhinney, Daniel D., to RCA Corporation. Calibration instrument for continuous wave microwave doppler radar. 4,656,481, 4-7-87, Cl. 342-171.000.
Max, Arnold: *See*—
Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Bugoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Max, Arnold, 4,695,559, Cl. 502-183.000.
Max Baermann, G.m.b.H.: *See*—
Baermann, Horst, 4,638,281, Cl. 335-303.000.
Max Co., Ltd.: *See*—
Furumura, Takashi; and Ohba, Takeo, 4,642,544, Cl. 318-696.000.
Masago, Atsushi, 4,664,733, Cl. 156-212.000.
Yamaguchi, Morio, 4,711,170, Cl. 101-93.050.
Max, Jean-Joseph; and Shah, Arvind, to Feller AG. Line with distributed low-pass filter section wherein spurious signals are attenuated. 4,683,450, 7-28-87, Cl. 333-202.000.
Max Kahn Curtain Corporation: *See*—
Rusconi, John B.; and Cole, Ronald A., 4,648,338, Cl. 112-180.000.
Max Kammerer GmbH: *See*—
Burghoff, Karl; Schiller, Werner; Albrecht, Wilhelm; Harsch, Herbert; and Burghoff, Heinz-Georg, 4,680,952, Cl. 72-161.000.
Max Planck Gesellschaft: *See*—
Lubbers, Dietrich W.; and Opitz, Norbert, 4,701,697, Cl. 324-96.000.
Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e. V.: *See*—
Asmussen, Frithjof; Gaenzler, Wolfgang; and Wunderlich, Winfried, 4,656,119, Cl. 430-327.000.
Betzler, Peter; and Mast, Karl-Friedrich, 4,687,342, Cl. 374-32.000.
Frahm, Jens; Haase, Axel; Matthaei, Dieter; Haenicke, Wolfgang; and Merboldt, Klaus-Dietmar, 4,707,658, Cl. 324-309.000.
Gobel, Ernst O.; Kuhl, Jurgen; and Veith, Gustav, 4,635,264, Cl. 372-18.000.
Lauche, Hans; and Barke, Wilhelm, 4,652,788, Cl. 313-103.0CM.
Mertens, Horst M.; and Bogl, Leonhard, 4,690,098, Cl. 118-727.000.
Opitz, Norbert; and Lubbers, Dietrich W., 4,643,877, Cl. 422-68.000.
Petzow, Gunter; Hofmann, Heinrich; and Weiss, Kurt, 4,670,408, Cl. 501-87.000.
Schafer, Fritz P.; Szatmari, Sandor; and Bor, Zsolt, 4,641,312, Cl. 372-25.000.
Schleeuriemen, Gerhard-Ludwig; Hotzel, Gerhard; and Weppner, Werner, 4,710,848, Cl. 361-280.000.
Spensberger, Wilhelm, 4,646,040, Cl. 333-239.000.
Stuke, Michael, 4,686,366, Cl. 250-287.000.

Valet, Gunter; Ruhenstroth-Bauer, Gerhard; Wunsch, Erich; and Moroder, Luis, 4,677,060, Cl. 435-29.000.
Weppner, Werner; Hartmann, Ervin; and Rabenau, Albrecht, 4,704,341, Cl. 429-192.000.

Max Rice Corporation, The: *See*—
Rice, Max, 4,673,150, Cl. 272-146.000.

Max Stegmann GmbH Uhren- und Elektroapparatefabrik: *See*—
Straky, Josef; and Haffner, Bernd, 4,652,748, Cl. 250-231.08E.

Maxa, Jaroslav: *See*—
Curda, Otakar; Maxa, Jaroslav; and Uhlir, Pavel, 4,710,646, Cl. 307-116.000.

Maxaxam Corporation: *See*—
Brackett, George E., 4,685,346, Cl. 74-427.000.

Maxcap, Inc.: *See*—
Nolan, Robert L., 4,635,808, Cl. 215-252.000.

Maxeiner, Heinz, to Bode-Panzer. Safety container. 4,696,240, 9-29-87, Cl. 109-82.000.

Maxfield, MacRae: *See*—
Shacklette, Lawrence W.; Jow, Taiguang R.; Toth, James E.; and Maxfield, MacRae, 4,668,596, Cl. 429-194.000.

Maxfield, Michelle d.: *See*—
D'Amelio, Frank D.; Maxfield, Michelle d.; Esposito, Dominick G.; and Kobyra, Walter B., 4,659,195, Cl. 350-574.000.

Maxi-Torque Drill Systems, Inc.: *See*—
Wenzel, Kenneth H., 4,653,964, Cl. 175-107.000.

Maxigames Corporation: *See*—
Lizzola, Claudio; and Lizzola, Marina, 4,671,216, Cl. 273-299.000.

Maxim Integrated Products, Inc.: *See*—
Bingham, David; and Allen, Charles M., 4,636,930, Cl. 363-60.000.
Bingham, David; and Allen, Charles M., 4,679,134, Cl. 363-61.000.
Bingham, David, 4,700,286, Cl. 363-127.000.

Maxim, John. Multi-action toy vehicle. 4,680,021, 7-14-87, Cl. 446-457.000.

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Maximal Security Products Ltd.: *See*—
Grant, John T., 4,686,335, Cl. 200-61.45R.

Maximov, Gennady K.; Brusnikin, Arkady F.; Belonosov, Vladimir I.; Popova, Roza A.; Fux, Vladimir S.; Kagan, Vladimir M.; Uralskaya, Silvia L.; and Orlova, Nadezhda P., to Vsesojuzny Nauchnoissledovatelsky Institut Legkogo I Tekstilnogo Mashinostroenia. Open-end spinning device. 4,702,069, 10-27-87, Cl. 57-417.000.

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Maximovitch, Suzanne: *See*—
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Maximus, Inc.: *See*—
Mastran, David V., 4,641,253, Cl. 364-518.000.

Maxiprint Systems Limited: *See*—
Hester, Ronald E., 4,653,902, Cl. 355-32.000.

Maxon Corporation: *See*—
Coppin, William, 4,690,635, Cl. 431-187.000.
Rollins, Jack; Coppin, William; and Karabin, Thaddeus, 4,635,898, Cl. 251-229.000.

Maxon Electronics Co. Ltd.: *See*—
White, Donald R.; and Harrison, Michael R., 4,685,099, Cl. 370-30.000.

Maxon Industries, Inc.: *See*—
Verner, Michael L., 4,648,775, Cl. 414-513.000.
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Maxson, Myron T., to Dow Corning Corporation. Method for preparing vinyl terminated fluorine-containing polydiorganosiloxane. 4,683,277, 7-28-87, Cl. 528-21.000.

Maxson, Myron T., to Dow Corning Corporation. In situ low temperature siloxane gel. 4,709,001, 11-24-87, Cl. 528-15.000.

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Poyser, Thomas D.; Avery, Randall N.; Bankoske, John W.; Borst, John D.; Kimblin, Clive W.; Maxwell, Albert H.; McElroy, David W.; Peterson, Charles A.; Rostron, Joseph R.; Smith, David R.; South, William H.; and Thomas, Michael W., 4,654,806, Cl. 364-551.000.

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Maxwell, David H. S., to Maxwell Shooting Enterprises Limited. Upstanding target structure for playing a game. 4,688,804, 8-25-87, Cl. 273-363.000.

Maxwell, Dennis L.: *See*—
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Maxwell, Donald J.: *See*—
Rudolph, Steven M.; and Maxwell, Donald J., 4,682,750, Cl. 248-421.000.

Maxwell, Edgar J., III: *See*—
Kunkle, Albert C.; and Maxwell, Edgar J., III, 4,680,104, Cl. 204-300.00R.

Maxwell, George R.: *See*—
Boland, Anthony C.; and Maxwell, George R., 4,668,019, Cl. 300-3.000.

Maxwell, James W., to Texas Instruments Incorporated. Rack for input/output modules for a programmable controller. 4,698,024, 10-6-87, Cl. 439-62.000.

Maxwell, Jerrold F.: *See*—
Schwartz, Ellen S.; Davis, Paula; and Maxwell, Jerrold F., 4,686,058, Cl. 252-75.000.

Maxwell Laboratories, Inc.: *See*—
Chu, Edmond Y.; and Valencia, Vance L., 4,707,619, Cl. 307-106.000.
Costa, Jonathan L.; and Hofmann, Gunter A., 4,665,898, Cl. 128-1.300.
Dunn, Joseph E.; and Pearlman, Jay S., 4,695,472, Cl. 426-237.000.
Valencia, Vance L., 4,684,820, Cl. 307-106.000.

Maxwell, Peter C.; Hsieh, Jin-Han; and Fieschko, John C., to Celanese Corporation. Stabilization of a mutant microorganism population. 4,657,863, 4-14-87, Cl. 435-142.000.

Maxwell, Reginald R.; Budzinski, Walter J.; Kuttruff, Manfred K.; Stanish, Leo S.; and Turner, Larry G., to Brass-Craft Manufacturing Company. Tube coupling. 4,647,086, 3-3-87, Cl. 285-342.000.

Maxwell, Richard L. Planetary worm gear apparatus, and methods of constructing and utilizing same. 4,697,476, 10-6-87, Cl. 74-785.000.

Maxwell Shooting Enterprises Limited: *See*—
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May, Adolf; Bucking, Hans-Walter; and Schreiber, Manfred, to Hoechst Aktiengesellschaft. Concentrated fabric softeners. 4,659,487, 4-21-87, Cl. 252-8.800.

May & Baker Limited: *See*—
Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter; Lunt, Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Warne, Peter J., 4,659,727, Cl. 514-370.000.
Collins, Raymond F.; Knowles, Philip; Saunders, Libert C.; Tierney, Francis J.; and Warne, Peter J., 4,647,569, Cl. 514-340.000.
Hart, Terance W., 4,698,363, Cl. 514-530.000.

May, Billy D. Shallow draft boat. 4,652,245, 3-24-87, Cl. 440-69.000.

May, Billy D. Low resistance net-supporting frame assembly. 4,653,213, 3-31-87, Cl. 43-9.000.

May, Billy D., to Boats of the Future, Inc. Shrimping/fishing net with vibratory bottom roller. 4,697,373, 10-6-87, Cl. 43-9.000.

May, Bronislav A.; and Nijs, Hubert H., to Monsanto Company. Detergent compositions containing aluminosilicates and aminopoly(methylenephosphonates). 4,652,403, 3-24-87, Cl. 252-526.000.

May, Bronislav H.; Nijs, Hubert H.; and Vandenbulcke, Brigitte M. J., to Monsanto Europe S.A. Granular aminomethylenephosphonate. 4,666,623, 5-19-87, Cl. 252-102.000.

May, Clifton C., Jr.: *See*—
Dery, Ronald A.; Gentry, William G.; Jones, Warren C.; May, Clifton C., Jr.; and Wentink, Steven G., 4,659,872, Cl. 174-117.00A.

May, Colin J., to Motorola Inc. High-Q RF filter with printed circuit board mounting temperature compensated and impedance matched helical resonators. 4,682,131, 7-21-87, Cl. 333-202.000.

May-Curran Associates: *See*—
May, Richard L.; and May, Jonathan R., 4,698,043, Cl. 446-273.000.

May, David A.: *See*—
Gardner, Bruce C.; Ingold, Daniel L.; and May, David A., 4,651,796, Cl. 160-266.000.

May, David C., to Minnesota Mining and Manufacturing Company. Pavement marking tape. 4,648,689, 3-10-87, Cl. 350-105.000.

May, David R.: *See*—
Brooks, Steve M.; and May, David R., 4,639,579, Cl. 219-464.000.
Brooks, Steve M.; and May, David R., 4,707,589, Cl. 219-464.000.

May, Denis R. W.: *See*—
Barkhordar, Mohammad; Nightingale, James M.; and May, Denis R. W., 4,650,492, Cl. 623-24.000.

May, Donald R., to May, Donald R.; and May, Sandra L. Method and apparatus for lifting and supporting structures. 4,634,319, 1-6-87, Cl. 405-230.000.

May, Dwayne E.: *See*—
Johnston, Russell A.; and May, Dwayne E., 4,651,822, Cl. 166-117.500.

May, Eric R., to Vickers Public Limited Company. Multi-bladed propeller and shaft assembly. 4,643,642, 2-17-87, Cl. 416-90.00A.

May Fabricating Co., Inc.: *See*—
May, Robert A., 4,643,331, Cl. 220-324.000.

May, Fritz: *See*—
Zimmer, Heinrich; and May, Fritz, 4,671,175, Cl. 101-148.000.

May, Gordon H. Electronic percussion instrument. 4,691,611, 9-8-87, Cl. 84-421.000.

May, Hardo: *See*—
Weh, Herbert; and May, Hardo, 4,663,551, Cl. 310-152.000.

May, James G.: *See*—
Brock, J. Donald; and May, James G., 4,638,747, Cl. 110-264.000.

May, Joe T.; and Hale, Steven D., to Electronic Instrumentation and Technology. Film area computer. 4,685,074, 8-4-87, Cl. 364-564.000.

May, Joe T.: *See*—
Ross, Malcolm G.; May, Joe T.; and Hale, Steven D., 4,644,165, Cl. 250-372.000.

May, John E., to General Electric Company. Surface mount varistor. 4,706,060, 11-10-87, Cl. 338-20.000.

May, John W.: *See—*
Alexandrovich, Peter S.; Manthey, Joseph W.; May, John W.; and Sreekumar, Chandra, 4,681,828, Cl. 430-97.000.
May, Jonathan C.: *See—*
Bax, Anton M.; and May, Jonathan C., 4,659,974, Cl. 318-806.000.
May, Jonathan R.: *See—*
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May, Joseph A. Check identification system. 4,658,126, 4-14-87, Cl. 235-487.000.
May, Keith; Gani, Mohamed M.; and Senior, Stephanie J., to Internationale Octrooi Maatschappij "Octropa" B.V. Pure alkaline phosphatase, its preparation and use. 4,659,666, 4-21-87, Cl. 435-188.000.
May, Kenneth W., to Ford Motor Company. Gear selector control for manual transmission. 4,633,728, 1-6-87, Cl. 74-476.000.
May, Kevin M.: *See—*
Snider, S. Duke; and May, Kevin M., 4,670,677, Cl. 310-63.000.
May, Manfred: *See—*
Federhen, Bernd; May, Manfred; and Muller-Spath, Gerhard, 4,674,922, Cl. 406-126.000.
May, Michael D., to Inmos Limited. Microcomputer with interprocess communication. 4,692,861, 9-8-87, Cl. 364-200.000.
May, Michael D., to Inmos Limited. Function set for a microcomputer. 4,704,678, 11-3-87, Cl. 364-200.000.
May, Michael D.: *See—*
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May, Michael G., to Air, Ltd. Self-centering sealing for electrode structure. 4,673,455, 6-16-87, Cl. 156-294.000.
May, Norman C., Sr.: *See—*
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May, Oscar W.; and Johnson, Betty S., to Buckman Laboratories, Inc. Synergistic compositions containing hydroxypropyl methanethiolsulfonate and methods of using same. 4,650,808, 3-17-87, Cl. 514-372.000.
May, Oscar W.: *See—*
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May, Richard L.; and May, Jonathan R., to May-Curran Associates. Rolling egg toy. 4,698,043, 10-6-87, Cl. 446-273.000.
May, Richard L.; Smith, Jay; and Wolf, Harley, to May, Richard L.; and Curran, Kennth. Racing game apparatus. 4,715,602, 12-29-87, Cl. 273-86.00R.
May, Robert A., to May Fabricating Co., Inc. Commercial waste container and disposal unit. 4,643,331, 2-17-87, Cl. 220-324.000.
May, Robert H.; and Burgoyne, Robert A., to Proflek, Inc. Mouthpiece. 4,672,959, 6-16-87, Cl. 128-136.000.
May, Roger A., to United States of America, Air Force. Motion sensitive frame integration. 4,679,086, 7-7-87, Cl. 358-167.000.
May, Ronald N.: *See—*
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May, Sam. Graphite/metal matrix gun barrel. 4,685,236, 8-11-87, Cl. 42-76.020.
May, Sandra L.: *See—*
May, Donald R., 4,634,319, Cl. 405-230.000.
May, Stefan: *See—*
Muller, Hans; and May, Stefan, 4,659,113, Cl. 283-94.000.
May, Walter R.; and Zetlmeisl, Michael J., to Petrolite Corporation. Inhibition of corrosion in fuels with Mg/Al/Si combinations. 4,659,339, 4-21-87, Cl. 44-68.000.
May, William A. Internally flavored hulled cereal grain and process for preparation. 4,640,842, 2-3-87, Cl. 426-534.000.
May, William A., to Morse Capital Corporation. Bland protein concentrates from peanuts and process for making. 4,650,857, 3-17-87, Cl. 530-377.000.
May, William A., to Morse Capital Corporation. Flavored, soluble protein concentrates from peanuts and process for making. 4,667,015, 5-19-87, Cl. 530-377.000.
May, William E.; McColloch, Rex, Jr.; and King, William A., to Siemens-Allis. Molded case circuit breaker with front accessible control panel. 4,680,672, 7-14-87, Cl. 361-353.000.
May, William L.: *See—*
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Maya, Jakob: *See—*
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Maybaum, Stephen: *See—*
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Mayberry, John A.: *See—*
Wright, Larry E.; and Mayberry, John A., 4,688,974, Cl. 409-219.000.
Maybon, Guy. Composition of abrasion-resistant material for application to a surface. 4,699,848, 10-13-87, Cl. 428-560.000.
Maybrier, William H.; and Chastain, Gary K. Mining machine system. 4,699,429, 10-13-87, Cl. 299-7.000.
Maycock, Ian C.; and Hodgson, Derek, to Automotive Products Plc. Friction clutch and clutch release mechanism for a vehicle. 4,691,815, 9-8-87, Cl. 192-98.000.
Maycock, Ian C.; and Crawford, Peter F., to Automotive Products plc. Friction clutch driven plate. 4,697,684, 10-6-87, Cl. 192-107.00R.
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Maydan, Dan; Somekh, Sasson; Cheng, Mei; and Cheng, David, to Applied Materials, Inc. Magnetron-enhanced plasma etching process. 4,668,338, 5-26-87, Cl. 156-643.000.
Maydan, Dan: *See—*
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Mayer, Albert: *See—*
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Mayer, Albin F. Ratchet wrench with multiple tools. 4,703,676, 11-3-87, Cl. 81-63.000.
Mayer, Andreas, to BBC Brown, Boveri & Company, Limited. Exhaust gas particle filter for internal combustion engines. 4,659,348, 4-21-87, Cl. 55-320.000.
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Mayer & Cie. GmbH & Co.: *See—*
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Mayer, Edward F., to Ricoh Company, Ltd.; and Ricoh Systems, Inc. Character generator using cathode ray tube activated liquid crystal display. 4,668,071, 5-26-87, Cl. 355-3.00R.
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Mayer, Hans; Muhlhofer, Rudolf; Deubzer, Bernward; and Mayerhofer, Walter, to Wacker-Chemie GmbH. Method for preparing plastic foams. 4,692,474, 9-8-87, Cl. 521-88.000.
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Mayer, Hans G. Apparatus for performing machining operations in poorly accessible locations. 4,687,386, 8-18-87, Cl. 408-88.000.
Mayer, Hans-Michael, to Elektrowatt AG. Electro-hydraulic actuator or positioning drive for continuous control or regulation operations. 4,648,245, 3-10-87, Cl. 60-477.000.
Mayer, Harald, to Theodor Groz & Sohne & Ernst Beckert Nadelfabriken Commandit Gesellschaft. Resilient impact-type latch needle for knitting machine. 4,656,841, 4-14-87, Cl. 66-121.000.
Mayer, Hartwig, to CEAG Licht- und Stromversorgungstechnik GmbH. Power supply. 4,639,834, 1-27-87, Cl. 361-388.000.
Mayer, Herbert E., to Perkin-Elmer Corporation, The. Method for facilitating the alignment of a photomask with individual fields on the surfaces of a number of wafers. 4,662,754, 5-5-87, Cl. 356-401.000.
Mayer, James L.; and Russell, William K., to Mayer, James L. Dispenser for solid and powered detergent. 4,666,682, 5-19-87, Cl. 422-266.000.
Mayer, John D., to Boeing Company, The. Apparatus and method for regulating the rate of change of flow of a fluidized medium. 4,682,531, 7-28-87, Cl. 91-446.000.
Mayer, Julius. Quick-mount thread cutting attachment for lathes. 4,685,362, 8-11-87, Cl. 82-5.000.
Mayer, Klaus, to VDO Adolf Schindling AG. Display device. 4,704,984, 11-10-87, Cl. 116-287.000.
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Cooper, Neil; and Mayes, James T., 4,642,284, Cl. 435-7.000.
Mayes, M. Dale: *See*—
Peters, Bruce C.; Mayes, M. Dale; Gross, Richard M.; and Pearson, Stanley R., 4,653,677, Cl. 222-591.000.
Mayes, Philip W.: *See*—
Regalbuto, John A.; Mayes, Philip W.; and Behling, William C., 4,655,138, Cl. 102-307.000.
Mayes, Richard T.: *See*—
Fifield, Charles C.; Mayes, Richard T.; Tate, Marilyn; and Varnell, Daniel F., 4,686,171, Cl. 430-273.000.
Mayes, Ronald A., to Helena Laboratories Corporation. Fluid proportioning device. 4,683,911, 8-4-87, Cl. 137-561.00A.
Mayeur, Jacques, to SEB S.A. Portable cooking appliance comprising an oven chamber and a cooking hotplate. 4,641,015, 2-3-87, Cl. 219-386.000.
Mayeur, Jacques: *See*—
Rosset, Roger; and Mayeur, Jacques, 4,697,067, Cl. 219-401.000.
Mayfield, Ralph W., to Cincinnati Milacron Inc. Linear actuator. 4,677,869, 7-7-87, Cl. 74-424.80R.
Mayfield, Richard B.: *See*—
Goodman, William R.; Mayfield, Richard B.; Tawshunsky, Ted; and Zardiackas, Fredrick L., 4,646,300, Cl. 371-33.000.
Mayfield, Ross: *See*—
Jenkins, Stuart M.; Spencer, Michael S.; and Mayfield, Ross, 4,709,820, Cl. 209-534.000.
Mayfield, Walter G. Downhole retrievable drill bit. 4,651,837, 3-24-87, Cl. 175-262.000.
Mayfield, Windel O. Float valve assembly. 4,687,019, 8-18-87, Cl. 137-375.000.
Mayhew, Harry W.: *See*—
Rekers, Louis J.; Speca, Anthony N.; and Mayhew, Harry W., 4,649,128, Cl. 502-109.000.
Mayhew, John D., Jr., to Alphabet Inc. Method of making corrosion resistant valve. 4,646,407, 3-3-87, Cl. 29-157.10R.
Mayhew, Roger D., to Weasler Engineering, Inc. Centering apparatus for constant velocity universal joint. 4,650,439, 3-17-87, Cl. 464-11.000.
Mayland, Walter: *See*—
Hosemann, Rolf; Mayland, Walter; and Walter, Juergen, 4,688,240, Cl. 378-70.000.
Mayle, Johnny D., Jr. Waste bag. 4,709,661, 12-1-87, Cl. 119-95.000.
Mayline Company, Inc.: *See*—
Ernst, Ronald E., 4,666,221, Cl. 312-341.00R.
Mayling, Rudolf M., to Weissenberger, Walter G.; and Dippert, William H., a part interest to each. Baseball batting helmet. 4,660,230, 4-28-87, Cl. 2-413.000.
Maynard, Christopher L.: *See*—
Diedrich, Donald F.; and Maynard, Christopher L., 4,665,058, Cl. 514-25.000.
Maynard, Frederick C., to Garrett Corporation, The. Compressor power unit fuel flow control. 4,682,469, 7-28-87, Cl. 60-39.060.
Maynard, Robert G.: *See*—
Zupanick, Joseph E.; and Maynard, Robert G., 4,662,745, Cl. 356-243.000.
Mayo Foundation: *See*—
Lazarow, Normand H.; and Bove, Alfred A., 4,709,703, Cl. 128-654.000.
Mayo, Howard A., Jr.; and Whippen, Warren G., to Voith Hydro, Inc. Inclined reaction turbine with vortex suppression. 4,648,244, 3-10-87, Cl. 60-398.000.
Mayo Medical Resources: *See*—
Ehman, Richard L.; and Felmlee, Joel P., 4,715,383, Cl. 128-653.000.
Gleich, Gerald J.; Wasmoen, Terri L.; Coulam, Carolyn B.; and Coulam, Carolyn B., 4,710,475, Cl. 436-86.000.
Gray, Joel E., 4,692,704, Cl. 324-318.000.
He, Ping; and Greenleaf, James F., 4,658,827, Cl. 128-660.000.
Spelsberg, Thomas C., 4,711,856, Cl. 436-504.000.
Mayo, Steven A.: *See*—
Swan, Jye P.; Weinerman, Lee S.; and Mayo, Steven A., 4,706,478, Cl. 70-208.000.
Mayo, William T., to North American Philips Corporation. Amplitude conditional signal processing for ultrasound frequency estimation. 4,683,893, 8-4-87, Cl. 128-660.000.
Mayo, William T., Jr., to North American Philips Corporation. Producing pseudocolor images for diagnostic ultrasound imaging. 4,690,150, 9-1-87, Cl. 128-660.000.
Mayo, William T., Jr., to North American Philips Corporation. Displaying a single parameter image. 4,697,594, 10-6-87, Cl. 128-653.000.
Mayock, John S. Horizontal industrial boiler system with improved ash removal means. 4,667,613, 5-26-87, Cl. 122-327.000.
Mayor, Jean-Michel; Steffen, Jurg; and Wuthrich, Peter, to Lausanne Holding AG. Method of, and apparatus for, generating a predetermined pattern using laser radiation. 4,695,698, 9-22-87, Cl. 219-121.00L.
Mayoral, Armando G. Medical aspirator system. 4,676,779, 6-30-87, Cl. 604-65.000.
Mayr, Adolfo; Susa, Ermanno; Leccese, Antonio; Davoli, Velmore; and Giachetti, Ettore, to Montecatini Edison S.p.A. Polymerization catalysts. 4,636,486, 1-13-87, Cl. 502-121.000.
Mayr, Ernst; and Oestreich, Ulrich, to Siemens Aktiengesellschaft. Optical cable. 4,660,926, 4-28-87, Cl. 350-96.230.
Mayr, Ernst; and Saller, Helmut, to Siemens Aktiengesellschaft. Protective covering for at least one light waveguide. 4,664,472, 5-12-87, Cl. 350-96.230.
Mayr, Ernst: *See*—
Einsle, Guenter; Mayr, Ernst; Oestreich, Ulrich; Schoeber, Gernot; and Schrey, Wolfgang, 4,689,943, Cl. 57-90.000.
Einsle, Guenter; and Mayr, Ernst, 4,702,404, Cl. 226-7.000.
Goldmann, Horst; Mayr, Ernst; and Oestreich, Ulrich, 4,684,214, Cl. 350-96.230.
Oestreich, Ulrich; and Mayr, Ernst, 4,641,916, Cl. 350-96.230.
Oestreich, Ulrich; and Mayr, Ernst, 4,709,984, Cl. 350-96.230.

Mayr, Fritz; and Dasser, Manfred, to Christian Mayr GmbH & Co. KG. Overload release mechanism for torque couplings. 4,637,502, 1-20-87, Cl. 192-56.00R.
Mayr, Georg: *See*—
Kellner, Roman; Mayr, Georg; Proksch, Karl-Heinz; and Pockl, Franz, 4,638,902, Cl. 198-345.000.
Mayrhofer, Max: *See*—
Fastner, Thorwald; Mayrhofer, Max; and Taschner, Walter, 4,684,053, Cl. 228-158.000.
Mayrhofer, Otto, to M.A.N.Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Cavity receiver for concentrated solar radiation. 4,633,854, 1-6-87, Cl. 126-451.000.
Mayringer, Maximilian: *See*—
Hubweber, Gerhard; and Mayringer, Maximilian, 4,651,326, Cl. 373-22.000.
Mays, Alfred T.; and Yang, Ching-Yun M., to Chicopee. Fusible fiber/microfine fiber laminate. 4,657,804, 4-14-87, Cl. 428-212.000.
Mays, Alfred T., to Chicopee. Method of making water impervious materials. 4,695,334, 9-22-87, Cl. 156-62.200.
Mays, Alfred T.; and Wereson, Nicholas, to Chicopee. Double belt bonding of fibrous web comprising thermoplastic fibers on steam cans. 4,713,134, 12-15-87, Cl. 156-181.000.
Mays, Gary S. Automatic fastening machine for roof and deck coverings. 4,657,167, 4-14-87, Cl. 227-99.000.
Mays, Joe A.: *See*—
Holmes, Richard E.; Mays, Joe A.; and Tyler, Michael C., 4,687,973, Cl. 315-371.000.
Mays, Terrell L., to Stauffer Chemical Company. Resealable shipping container. 4,660,736, 4-28-87, Cl. 220-327.000.
Mayse, Noble R. Christmas light hangers. 4,714,219, 12-22-87, Cl. 248-65.000.
Mayser, Joerg: *See*—
Edinger, Egon; Koetter, Joachim; Kraske, Dietmar; Krumrey, Klaus; Mayser, Joerg; and Michael, Ulrich, 4,657,403, Cl. 29-840.000.
Mayszak, Michael T., to Reliance Electric Company. Cable clamp, body portion therefore and method of manufacturing same. 4,646,395, 3-3-87, Cl. 24-135.00R.
Maytag Company, The: *See*—
Barritt, William D., 4,703,306, Cl. 340-310.0CP.
Beach, Stanley H., 4,705,018, Cl. 126-39.00N.
Beach, Stanley H.; and Brangan, Richard W., 4,705,019, Cl. 126-39.00E.
Beach, Stanley H., 4,705,021, Cl. 126-41.00R.
Cotton, Curran D.; Ellingson, David I.; Erickson, Donald E.; Noe, William J.; and Wilson, James D., 4,663,538, Cl. 307-38.000.
Ellingson, David I., 4,677,291, Cl. 250-231.0GY.
Magilton, Thomas C., 4,682,267, Cl. 361-331.000.
Ross, Frank E.; and Hunter, William H., 4,641,006, Cl. 219-10.55F.
Wilson, James D., 4,697,687, Cl. 194-344.000.
Maytum, Michael J.; and Lear, Anthony, to Texas Instruments Incorporated. Starter circuit for a fluorescent tube lamp. 4,673,844, 6-16-87, Cl. 315-200.00R.
Mayumi, Junji; and Maruta, Riichiro, to Mitsubishi Petrochemical Co., Ltd. Primer composition for olefin resin. 4,692,357, 9-8-87, Cl. 427-393.500.
Mayumi, Nobuo: *See*—
Kato, Hidetoshi; Mayumi, Nobuo; Kusase, Shin; and Matsuhashi, Hajime, 4,634,954, Cl. 322-28.000.
Kato, Hidetoshi; Maehara, Fuyuky; and Mayumi, Nobuo, 4,641,079, Cl. 320-64.000.
Sada, Takeshi; Kato, Hidetoshi; Shibata, Hiroshi; Mori, Kazumasa; Mayumi, Nobuo; Sato, Hirohide; Akita, Yoshio; and Tanaka, Shigeru, 4,665,354, Cl. 320-64.000.
Mayuzumi, Tetsuya: *See*—
Sasaki, Isao; Yanagase, Akira; Kawachi, Yasunori; Mayuzumi, Tetsuya; Oba, Toshio; and Okada, Fumio, 4,690,986, Cl. 525-479.000.
Mayville, Wayne R., to Unidynamics Phoenix, Inc. Temperature resistant detonator. 4,671,177, 6-9-87, Cl. 102-204.000.
Mazac, Karel, to Kuka Schweissanlagen & Roboter GmbH. Magnetic control device for arc welding. 4,714,818, 12-22-87, Cl. 219-123.000.
Mazaki, Masamitu: *See*—
Sawaragi, Toru; Kubo, Masayoshi; and Mazaki, Masamitu, 4,650,371, Cl. 405-211.000.
Mazaki, Yoshiyuki, to Kabushiki Kaisha Murakoshi Seiko. Shelving device. 4,639,161, 1-27-87, Cl. 403-245.000.
Mazaki, Yoshiyuki, to Kabushiki Kaisha Murakoshi Seiko. Door device for furniture. 4,708,410, 11-24-87, Cl. 312-138.00R.
Mazanec, Terry J.; and Frye, John G., Jr., to Standard Oil Company, The. Copper-zirconium-manganese-containing catalysts and processes for making alcohol mixtures using same. 4,666,944, 5-19-87, Cl. 518-700.000.
Mazanec, Terry J.; and Frye, John G., Jr., to Standard Oil Company, The. Preparation of catalyst for producing alcohols. 4,675,306, 6-23-87, Cl. 502-303.000.
Mazanec, Terry J.; and Frye, John G., Jr., to Standard Oil Company, The. Process for the preparation of mixed metal oxide catalysts. 4,677,091, 6-30-87, Cl. 502-182.000.
Mazanec, Terry J.; Frye, John G., Jr.; and Hardman, Harley F., to Standard Oil Company, The. Alcohol compositions for blending with gasoline. 4,705,532, 11-10-87, Cl. 44-53.000.
Mazanec, Terry J.: *See*—
Budge, John R.; Compton, Senja V.; Goeden, Gary V.; and Mazanec, Terry J., 4,665,042, Cl. 502-61.000.
Hardman, Harley F.; Mazanec, Terry J.; and Frye, John G., Jr., 4,657,887, Cl. 502-303.000.
Velenyi, Louis J.; and Mazanec, Terry J., 4,676,972, Cl. 423-648.00R.
Mazanek, Jan: *See*—
Sackmann, Gunter; Mazanek, Jan; Oberkirch, Wolfgang; and Bartl, Herbert, 4,670,516, Cl. 525-327.600.
Mazda Motor Corporation: *See*—
Abe, Yoshio; Okano, Tetsuo; Omori, Tomohiro; and Kawamoto, Minoru, 4,693,225, Cl. 123-568.000.
Akutagawa, Hitoshi, 4,673,377, Cl. 474-1.000.
Ando, Fumitaka; and Takao, Kijima, 4,652,009, Cl. 280-701.000.
Aonuma, Takahiro; and Konishi, Minoru, 4,634,173, Cl. 296-188.000.
Aoyama, Mizuki; and Fujiwara, Takuji, 4,688,452, Cl. 74-869.000.
Asanomi, Koji, 4,674,452, Cl. 123-90.310.
Boda, Keiji; Waki, Kouichirou; and Yanagisawa, Keizo, 4,709,596, Cl. 74-868.000.
Choushi, Masahiro; and Hiraoka, Shin, 4,643,137, Cl. 123-52.0MV.
Fuji, Hiroshi; Sakamoto, Shunji; and Kimura, Kunji, 4,658,501, Cl. 29-787.000.
Fujimoto, Yoriaki; Sasaki, Hiroshi; and Karimata, Yukihiro, 4,660,517, Cl. 123-210.000.
Fujitomi, Tetsuo; Iida, Masamichi; and Kato, Kiminobu, 4,674,277, Cl. 60-293.000.
Fukube, Tsugio; Yamashita, Akinori; Hashimoto, Noboru; and Yamamoto, Hiroyuki, 4,656,988, Cl. 123-489.000.
Fukutomi, Hisao; Konishi, Takeshi; Kuraoka, Koji; Umeda, Morio; Tuchiya, Takanori; and Imura, Yutaka, 4,695,089, Cl. 296-107.000.
Handa, Tatuhiro, 4,678,110, Cl. 228-4.100.
Harasaki, Hayathugu, 4,652,044, Cl. 296-203.000.
Harasaki, Hayatsugu, 4,669,776, Cl. 296-194.000.
Harasaki, Hayatsugu; and Yoshizane, Koichi, 4,669,777, Cl. 296-194.000.
Harasaki, Hayatsugu, 4,674,791, Cl. 296-194.000.
Hatamura, Koichi; Hiraoka, Tetsuo; and Asanomi, Koji, 4,649,871, Cl. 123-52.0MV.
Hatamura, Koichi; and Asanomi, Koji, 4,702,207, Cl. 123-302.000.
Hatamura, Kouichi; Hiraoka, Tetsuo; Hokazono, Kazuaki; and Seike, Shinji, 4,708,097, Cl. 123-52.00M.
Hayama, Mamoru, 4,709,595, Cl. 74-864.000.
Higashi, Haruki; Yashiki, Seiji; Waki, Kouichirou; and Kikuchi, Toshiyuki, 4,640,394, Cl. 192-3.290.
Hiketa, Manabu, 4,697,471, Cl. 74-359.000.
Hirano, Seiji; and Sato, Youji, 4,700,913, Cl. 248-73.000.
Hiraoka, Tetsuo; Hatamura, Koichi; and Yamamoto, Sigeyasu, 4,686,944, Cl. 123-52.0MV.
Hiroser, Kazutaka; and Shimazu, Yutaka, 4,653,807, Cl. 297-367.000.
Hirose, Kazutaka; and Watanabe, Hiroyuki, 4,688,846, Cl. 296-76.000.
Hitomi, Mitsuo; Hinatase, Fumio; and Yuzuriha, Yasuhiro, 4,671,217, Cl. 123-52.0MB.
Hitomi, Mitsuo; Hinatase, Fumio; and Yuzuriha, Yasuhiro, 4,679,531, Cl. 123-52.0MB.
Hotate, Makoto; Nishikawa, Toshio; and Tabara, Yoshitaka, 4,662,339, Cl. 123-486.000.
Hotate, Makoto; Kaneko, Tadashi; Nishikawa, Toshio; Nakazumi, Tadataka; and Takeuchi, Nobuo, 4,682,044, Cl. 290-40.00B.
Hotate, Makoto; Nishikawa, Toshio; Takeuchi, Kobuo; Okuno, Itaru; and Nakazumi, Tadataka, 4,691,677, Cl. 123-399.000.
Ikeda, Hidekazu; and Ono, Masayoshi, 4,662,649, Cl. 280-752.000.
Imazu, Shigeki, 4,714,064, Cl. 123-339.000.
Imura, Yutaka; Konisi, Takesi; Tuchiya, Takanori; Umeda, Morio; Fukutomi, Hisao; and Kuraoka, Koji, 4,651,470, Cl. 49-502.000.
Ishibashi, Sadao, 4,657,297, Cl. 296-63.000.
Iwaki, Masato, 4,691,675, Cl. 123-339.000.
Iwamoto, Tadashi; and Sumida, Shizuo, 4,646,059, Cl. 340-52.00F.
Iwamoto, Tadashi; Ikeda, Toshiki; Yukitomo, Kazuo; Hattori, Masaichi; Arakawa, Kaneyasu; Kihira, Koichi; and Hanaki, Akira, 4,683,403, Cl. 315-83.000.
Kanayama, Hideaki, 4,715,772, Cl. 414-730.000.
Kanazawa, Hirotaka; Takatani, Teruhiko; Furutani, Shigeki; Chikuma, Isamu; Shimada, Satoru; and Eda, Hiroshi, 4,646,867, Cl. 180-140.000.
Kanazawa, Hirotaka; Takatani, Teruhiko; and Takata, Naoto, 4,657,102, Cl. 180-140.000.
Kanazawa, Hirotaka, 4,658,927, Cl. 180-142.000.
Kanazawa, Hirotaka; Tanaka, Takeshi; Furutani, Shigeki; and Miyoshi, Akihiko, 4,673,189, Cl. 280-91.000.
Katayama, Kazuo; Ooishi, Katumi; Ogawa, Toshiake; Batai, Masaru; and Kataoka, Mitsuru, 4,660,852, Cl. 280-750.000.
Kido, Yoshinobu; and Yamada, Toshihiro, 4,658,640, Cl. 73-118.200.
Kido, Yoshinobu; and Yamada, Toshihiro, 4,683,455, Cl. 340-52.00R.
Kijima, Takao; and Ando, Fumitaka, 4,715,614, Cl. 280-701.000.
Kijima, Takao; and Ando, Fumitaka, 4,715,615, Cl. 280-701.000.
Kikuchi, Toshiyuki; and Yamamoto, Koichi, 4,665,777, Cl. 74-866.000.
Kikuchi, Toshiyuki; and Yamamoto, Koichi, 4,694,709, Cl. 74-866.000.
Kobayashi, Masafumi; Nagaoka, Hiroyasu; Hayakawa, Hitoshi; and Kogai, Masamiti, 4,665,832, Cl. 104-165.000.
Kohno, Kouji; Takubo, Hiroichi; and Ito, Toshinobu, 4,690,111, Cl. 123-192.00B.

Kohno, Kouji; Takubo, Hiroichi; and Ito, Toshinobu, 4,696,267, Cl. 123-192.00B.
Kondo, Tetsuro; and Ueda, Tsuyoshi, 4,693,358, Cl. 198-339.100.
Konishi, Toshiharu; Shimizu, Yukio; Sakuramoto, Takahumi; Morishita, Tsuyoshi; and Osaki, Shigemi, 4,681,733, Cl. 419-8.000.
Koshio, Tomoaki, 4,671,140, Cl. 74-868.000.
Kurama, Kenichiro; and Shibata, Michiyasu, 4,682,780, Cl. 279-79.000.
Kuraoka, Koji; Umeda, Morio; Konishi, Takeshi; and Tuchiya, Takanori, 4,700,982, Cl. 296-107.000.
Maebayashi, Jiro; and Hamamoto, Masaya, 4,708,389, Cl. 296-107.000.
Maebayashi, Jiro; and Hamamoto, Masaya, 4,711,485, Cl. 296-108.000.
Maeda, Tatsuo; and Ohya, Takeji, 4,711,052, Cl. 49-502.000.
Mamiya, Kiyotaka; Kaneko, Tadashi; Fujimoto, Misao; and Nishimura, Hirofumi, 4,646,522, Cl. 60-602.000.
Mamiya, Kiyotaka; Terashita, Toshiyuki; Okazaki, Katsumi; and Nakazumi, Tadataka, 4,669,439, Cl. 123-489.000.
Mashimo, Toru, 4,712,624, Cl. 173-43.000.
Mastumoto, Makoto; and Hayama, Mamoru, 4,697,478, Cl. 74-859.000.
Masuda, Shuji; and Oda, Hiroyuki, 4,714,059, Cl. 123-90.230.
Masuda, Shunji; Oda, Hiroyuki; and Morita, Yasuyuki, 4,651,684, Cl. 123-90.160.
Matsubara, Toshio; Kakumoto, Hideki; and Osazaki, Kazuyuki, 4,646,702, Cl. 123-520.000.
Matsuoka, Toshihiro; and Kikuchi, Toshiyuki, 4,669,335, Cl. 74-866.000.
Matsuura, Masahiko; Kaneko, Tadashi; Kaide, Tadayoshi; and Hotate, Makoto, 4,633,841, Cl. 123-492.000.
Matsuura, Masahiko; Doi, Nobuo; Yoshioka, Sadashichi; Okimoto, Haruo; and Ueda, Kazuhiko, 4,683,856, Cl. 123-436.000.
Minamitani, Kunitomo; Izuo, Masahiro; Nakao, Yuji; Nishikawa, Toshihide; and Kawaguchi, Hiroyuki, 4,703,735, Cl. 123-489.000.
Miyoshi, Akihiko; and Nakashima, Hitoshi, 4,687,223, Cl. 280-707.000.
Morishita, Tsuyoshi; Osaki, Sigemi; and Sakai, Noriyuki, 4,690,320, Cl. 228-194.000.
Morishita, Tuyoshi; Kawado, Yasuhumi; Osaki, Sigemi; and Sakai, Noriyuki, 4,646,811, Cl. 164-103.000.
Moriyama, Naomune; and Hamamoto, Masaya, 4,650,030, Cl. 180-292.000.
Moriyama, Yukihiro, 4,658,546, Cl. 49-352.000.
Muguruma, Taku; and Ohuchi, Seiji, 4,703,304, Cl. 340-52.00R.
Murai, Masayoshi; and Fuyuki, Akira, 4,644,635, Cl. 29-568.000.
Muranaka, Kozo, 4,700,472, Cl. 29-822.000.
Murata, Yoshinori; and Tanita, Yoshio, 4,645,440, Cl. 418-178.000.
Nagamatsu, Hiroaki; and Ebisumoto, Takashige, 4,665,775, Cl. 74-868.000.
Nakamura, Saburo; Matsuoka, Tsutomu; Yamauchi, Hirofumi; and Sahara, Masanori, 4,640,252, Cl. 123-446.000.
Nakamura, Saburo; Sakurai, Shigeru; Nishida, Takumi; and Sahara, Masanori, 4,682,576, Cl. 123-179.00A.
Nakano, Mitusou, 4,708,391, Cl. 296-204.000.
Nakayama, Hideo; Nakatani, Shuichi; Tanaka, Fusatoshi; and Hanafusa, Hiroyuki, 4,690,106, Cl. 123-52.00M.
Nakayama, Makoto, 4,656,758, Cl. 34-54.000.
Nishida, Takumi; Nomoto, Yosihtaka; Sahara, Masanori; and Yamauchi, Hirofumi, 4,669,429, Cl. 123-179.00E.
Nishikawa, Toshihide; Hanada, Kenichirou; Nishimura, Yukinobu; and Shimomura, Setsuhiro, 4,706,634, Cl. 123-492.000.
Nishimura, Hirofumi; and Morita, Yasuyuki, 4,690,110, Cl. 123-90.170.
Nobumoto, Kazutoshi; and Sumida, Shizuo, 4,671,138, Cl. 74-862.000.
Nomoto, Yoshitaka; Yamauchi, Hirofumi; Sakurai, Shigeru; Ohkubo, Kenji; Kurita, Hideaki; and Yagi, Kunihico, 4,665,690, Cl. 60-286.000.
Oda, Hiroyuki; and Kageyama, Akira, 4,714,058, Cl. 123-90.220.
Oda, Hiroyuki; Nagao, Akihito; Misumi, Masanori; Yamashita, Akinori; and Okazaki, Katsumi, 4,714,063, Cl. 123-308.000.
Oda, Masamitsu, 4,647,274, Cl. 425-135.000.
Oguri, Kazuo, 4,665,774, Cl. 74-868.000.
Ohya, Takegi; and Shono, Noboru, 4,662,115, Cl. 49-502.000.
Ohya, Takegi, 4,709,957, Cl. 296-146.000.
Okimoto, Haruo, 4,633,844, Cl. 123-559.000.
Okimoto, Haruo; Mithui, Syuzi; and Ebino, Hiroshi, 4,641,619, Cl. 123-479.000.
Okimoto, Haruo, 4,669,441, Cl. 123-559.000.
Okimoto, Haruo; and Tashima, Seiji, 4,706,621, Cl. 123-216.000.
Okino, Kiyomi; and Muramoto, Takumi, 4,637,648, Cl. 296-63.000.
Osaki, Sigemi; Yousina, Norio; Morishita, Tsuyoshi; and Kawado, Yasuhumi, 4,678,633, Cl. 419-8.000.
Sakamoto, Toshinori; Hirashima, Isao; and Tsuji, Seiichi, 4,690,432, Cl. 280-775.000.
Sakurai, Shigeru; and Hamada, Shigeki, 4,644,926, Cl. 123-569.000.
Sakurai, Ushio, 4,653,619, Cl. 192-13.00A.
Sasaki, Kazuko, 4,658,632, Cl. 73-23.000.
Satoh, Osamu, 4,698,570, Cl. 318-568.000.
Sekiraku, Akira, 4,685,208, Cl. 29-786.000.
Shimaoka, Shinji; and Yamamoto, Koichi, 4,667,541, Cl. 74-866.000.
Shimizu, Tsutomu; Tarumoto, Kouji; and Nanba, Satoshi, 4,678,738, Cl. 430-320.000.
Shimizu, Tsutomu; Miyata, Jun; and Yagii, Koji, 4,693,942, Cl. 428-614.000.
Sotoyama, Kaoru; and Nobumoto, Kazutoshi, 4,662,247, Cl. 74-866.000.
Sotoyama, Kaoru; Sumida, Shizuo; and Kikuchi, Toshiyuki, 4,687,083, Cl. 192-0.076.
Summoto, Takashi, 4,650,209, Cl. 280-690.000.
Tadokoro, Tomoo; Okimoto, Haruo; and Akagi, Toshimichi, 4,702,219, Cl. 123-559.000.
Taketani, Toshinobu; Kuramori, Ken; Sakamoto, Sunji; and Fujii, Hiroshi, 4,683,651, Cl. 29-786.000.
Takeuchi, Nobuo; Hotate, Makoto; Kaneko, Tadashi; and Nishikawa, Toshio, 4,665,878, Cl. 123-492.000.
Tanaka, Fusatoshi; Nakatani, Shuichi; Nakayama, Hideo; and Hanafusa, Hiroyuki, 4,660,527, Cl. 123-41.82R.
Tanaka, Hideki; Tokushima, Takashige; Higashi, Haruki; and Hamada, Shigeki, 4,699,097, Cl. 123-192.00R.
Tanaka, Kazamoto; Mashimo, Tohru; Sato, Osamu; and Kobayashi, Toyohiko, 4,639,868, Cl. 364-420.000.
Tanaka, Yoshimichi, 4,641,609, Cl. 123-41.82R.
Tarumoto, Kouji; Miyata, Jun; Yagii, Koji; and Nanba, Satoshi, 4,636,285, Cl. 204-38.500.
Togawa, Zenta, 4,703,547, Cl. 29-227.000.
Ueyama, Masato; Kanamaru, Takeshi; Shirai, Toshikazu; and Nakano, Kiyoshi, 4,673,075, Cl. 198-339.100.
Watanabe, Kenichi; and Taniguchi, Haruyuki, 4,706,945, Cl. 267-186.000.
Watanabe, Kenichi; Hiruta, Hideshi; and Hiketa, Manabu, 4,709,775, Cl. 180-233.000.
Yagi, Toshiro; and Sumida, Kiyomi, 4,656,711, Cl. 29-156.50R.
Yagii, Koji; Miyata, Jun; and Takasuga, Shunzo, 4,695,699, Cl. 219-121.0LD.
Yajima, Tsunao, 4,676,217, Cl. 123-559.000.
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Yamada, Kiyoshige, 4,646,863, Cl. 180-68.100.
Yamashita, Akinori; Hataoka, Kenji; Hashimoto, Noboru; and Misumi, Masanori, 4,658,792, Cl. 123-478.000.
Yoshimura, Takashi, 4,650,212, Cl. 280-707.000.
Yoshimura, Takeshi; Sameshima, Mutsuro; Nakanishi, Toru; and Kato, Shigeo, 4,641,620, Cl. 123-432.000.
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Guioth, Chantal H.; Maze, Etienne G.; and Rabajoie, Loick P, 4,710,281, Cl. 204-181.700.
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Poulain, Marcel J.; Poulain, Michel A.; and Maze, Gwenael A, 4,666,870, Cl. 501-40.000.
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Barlier, Pernette R. M.; and Mazeau, Jean-Pierre, 4,687,751, Cl. 501-32.000.
Maziarz, John D., to Capewell Components Company Limited Partnership. Parachute quick release coupling, 4,684,083, 8-4-87, Cl. 244-151.00A.
Mazin, Moshe; and Lewis, Edward T., to Raytheon Company. Conditional-carry adder for multibit digital computer, 4,675,838, 6-23-87, Cl. 364-788.000.
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Mazoff, Stanley S.: *See*—
Fish, Aaron M.; Mazoff, Stanley S.; D'Intino, Adamo M.; and Somasundaram, Hariharan, 4,640,110, Cl. 70-269.000.
Mazorol, Earl A., Jr.: *See*—
Sullivan, Daniel C.; and Mazorol, Earl A., Jr., 4,712,388, Cl. 514.00R.

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Mazur, Duane J.; and Weinberg, Norman L., to PCB Sandpiper, Inc. Methods for electrochemical reduction of halogenated organic compounds. 4,702,804, 10-27-87, Cl. 204-73.00R.

Mazur, Edward J.: *See*—
Voltmer, Helmut; Schwenzer, Alfred F.; and Mazur, Edward J., 4,668,327, Cl. 156-477.100.

Mazur, Stephen: *See*—
Hadley, Henry C., Jr.; and Mazur, Stephen, 4,657,833, Cl. 430-52.000.
Manring, Lewis E.; and Mazur, Stephen, 4,692,360, Cl. 427-443.100.

Mazura, Paul, to Schroff GmbH. Rack for accommodating industrial electronic components. 4,669,616, 6-2-87, Cl. 211-41.000.

Mazurek, Harry, to Atlantic Richfield Company. Hydrocarbon conversion process using a molten salt. 4,665,261, 5-12-87, Cl. 585-500.000.

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Mazurek, Nachman: *See*—
Pecht, Israel; and Mazurek, Nachman, 4,683,135, Cl. 424-85.000.

Mazza, Frank. Grinding mill. 4,685,625, 8-11-87, Cl. 241-36.000.

Mazza, Glenn L.: *See*—
Palermo, Anthony C.; Christenson, Roger M.; and Mazza, Glenn L., 4,683,266, Cl. 525-123.000.

Mazza, Gregory E.: *See*—
Meuschke, Robert E.; and Mazza, Gregory E., 4,662,023, Cl. 15-104.120.
Scrabis, Charles M.; Mazza, Gregory E.; Golick, Leonard R.; and Pomaibo, Paul, 4,711,755, Cl. 376-260.000.
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Mazzacchera, Giuseppe: *See*—
D'Andolfo, Francesco; Grampa, Fulvio; Mazzacchera, Giuseppe; and Rolando, Aurelio, 4,675,142, Cl. 264-103.000.

Mazzagatti, Roy P.; and Dowling, Donald J., to Texaco Inc. Well logging means and method for determining water saturation of a petroleum reservoir having two transmitters and two receivers. 4,692,706, 9-8-87, Cl. 324-338.000.

Mazzamauro, Robert; and Ambrozaitis, John, to Minelco, Inc. Magnetic latching and damping for electromagnetic indicators. 4,661,813, 4-28-87, Cl. 340-815.260.

Mazzamurro, Giuseppina: *See*—
De Antonis, Mario; Fiorini, Mario; and Mazzamurro, Giuseppina, 4,714,769, Cl. 556-419.000.

Mazzarella, Emil D.; Maliczyszyn, Walter; and Atkinson, Jeffrey, to National Starch and Chemical Corporation. Storage stable paper size composition containing ethoxylated lanolin. 4,711,671, 12-8-87, Cl. 106-243.000.

Mazzarolo, Sante, to Alpine Stars S.p.A. Ventilated item of sport footwear, particularly for motorcyclists. 4,693,021, 9-15-87, Cl. 36-131.000.

Mazzei, Francisco A. F.: *See*—
Farias, Paulo D.; Mazzei, Francisco A. F.; Santo, Ubirajara do E.; and Werle, Paulo, 4,644,256, Cl. 323-799.000.

Mazzini, Marco: *See*—
Tega, Ezio; Piccini, Fabrizio; Mazzini, Marco; and Magi, Raffaello, 4,711,015, Cl. 29-566.200.

Mazziotti, Michael F.; and Mazziotti, Philip J., to Zeller Corporation, The. Tripot universal joint of the end motion type. 4,674,993, 6-23-87, Cl. 464-111.000.

Mazziotti, Philip J.: *See*—
Mazziotti, Michael F.; and Mazziotti, Philip J., 4,674,993, Cl. 464-111.000.

Mazziotti, Pietro-Antonio: *See*—
Peitz, Wolfgang; and Mazziotti, Pietro-Antonio, 4,677,532, Cl. 362-61.000.

Mazzitelli, Frederick, to Boeing Company, The. Vortex generators for inlets. 4,696,442, 9-29-87, Cl. 244-53.00B.

Mazzocco, Thomas R.; and Frenchik, Michael H., Jr., to Teleshaft Company, Inc. Golf club having adjustable length shaft. 4,674,747, 6-23-87, Cl. 273-81.200.

Mazzocco, Thomas R., to Staar Surgical Company. Surgical device for implantation of a deformable intraocular lens. 4,702,244, 10-27-87, Cl. 128-303.00R.

Mazzocco, Thomas R.; and Frenchik, Mary T. Devices for implantation of deformable intraocular lens structures. 4,715,373, 12-29-87, Cl. 128-303.00R.

Mazzorana, Alfred B., to Societe de Paris et du Rhone. Engagement control of the starter pinion for internal combustion engine starter. 4,637,267, 1-20-87, Cl. 74-7.00A.

Mazzorana, Alfred B.; and Froment, Francis, to Societe Paris-Rhone. Electric starter incorporating a base plate supporting the carcase of its electric motor and the yoke of its contactor. 4,649,285, 3-10-87, Cl. 290-48.000.

Mazzorana, Alfred B., to Societe de Paris et Du Rhone. Electric reduction gear starter for internal combustion engine. 4,662,233, 5-5-87, Cl. 74-7.00A.

Mazzorana, Alfred B. Starter with two motors. 4,684,816, 8-4-87, Cl. 290-38.00R.

Mazzucchelli, Arnaldo, to Plasti-Max S.r.l. Mark applicable to general articles with blocking device against abusive removal. 4,646,452, 3-3-87, Cl. 40-2.00R.

MBB GmbH: *See*—
Dellinger, Juergen; Kraemer, Ulrich; Schlieske, Rainer; and Wohlers, Heinz, 4,659,041, Cl. 224-139.000.
Soelter, Michael, 4,645,142, Cl. 244-100.00A.

McAbee, Mac P.; and Biddle, Deloss J., to McAbee, Mac Patrick. Distributor for multi-cylinder engine. 4,710,598, 12-1-87, Cl. 200-21.000.

McAbee, Mac Patrick: *See*—
McAbee, Mac P.; and Biddle, Deloss J., 4,710,598, Cl. 200-21.000.

McAbee, MacPatrick; and Biddle, Deloss J., to McAbee, MacPatrick. Distributor for multi-cylinder engine. 4,658,103, 4-14-87, Cl. 200-19.0DC.

McAdam, Peter L., to TRW Inc. Rapid acquisition demodulation system. 4,652,834, 3-24-87, Cl. 329-50.000.

McAdams, Hugh P., to Texas Instruments Incorporated. High-level CMOS driver circuit. 4,638,182, 1-20-87, Cl. 307-270.000.

McAdams, Hugh P., to Texas Instruments Incorporated. CMOS sense amplifier with isolated sensing nodes. 4,716,320, 12-29-87, Cl. 307-530.000.

McAdams, Hugh P.: *See*—
Tran, Bao G.; McAdams, Hugh P.; and Childers, Jimmie D., 4,658,382, Cl. 365-203.000.

McAleer, William J.: *See*—
Friedman, Arthur; Lehman, E. Dale; McAleer, William J.; Schaefer, Ted F.; Scolnick, Edward M.; and Wampler, D. Eugene, 4,707,542, Cl. 530-371.000.

McAlevey, Richard J.; Muir, Malcolm D.; and van der Laan, Johan S., to Rice Multiphones, Inc. Multifunction two line telephone system. 4,691,345, 9-1-87, Cl. 379-158.000.

McAliley, J. Eugene; Daumit, Gene P.; Ethridge, Frederick A.; and Crozier, James R., Jr., to BASF Aktiengesellschaft. Carbon fiber multifilamentary tow which is particularly suited for weaving and/or resin impregnation. 4,714,642, 12-22-87, Cl. 428-113.000.

McAliley, John E.; and Crozier, James R., Jr., to BASF Aktiengesellschaft. Yarn entangling apparatus. 4,633,550, 1-6-87, Cl. 28-272.000.

McAliley, John E.; and Crozier, James R., Jr., to BASF Aktiengesellschaft. Method for removing trash from yarn entangling apparatus. 4,675,957, 6-30-87, Cl. 28-272.000.

McAlister, Donald R.; and Ziebold, Steven A., to Monsanto Company. Heat recovery from concentrated sulfuric acid. 4,670,242, 6-2-87, Cl. 423-522.000.

McAlister, Donald R., to Monsanto Company. Control of anodic passivation systems. 4,689,127, 8-25-87, Cl. 204-147.000.

McAlister, Doyle V.: *See*—
Pumo, Joseph; Atwell, William D., Jr.; and McAlister, Doyle V., 4,663,545, Cl. 307-463.000.

McAlister, Gary B.; and Malloy, James, to Sherwood Medical Company. Blood sample syringe. 4,703,763, 11-3-87, Cl. 128-765.000.

McAlister, George A. Staple remover. 4,674,727, 6-23-87, Cl. 254-28.000.

McAlister, Roy E. Organosilicon compounds. 4,692,537, 9-8-87, Cl. 556-484.000.

McAlister, Roy E. Apparatus for fushion welding plastic pipe joints. 4,714,513, 12-22-87, Cl. 156-359.000.

McAllister, Ian R. Vacuum insulated shipping container and method. 4,646,934, 3-3-87, Cl. 220-420.000.

McAllister, Lawrence E.; and Hill, John E., Jr., to Fiber Materials, Inc. Ablative composition. 4,656,095, 4-7-87, Cl. 428-413.000.

McAllister, Merlan E.; and Snedeker, Robert W., to Viskase Corporation. High coherency shirred casings. 4,649,961, 3-17-87, Cl. 138-118.100.

McAloon, Kevin T.; and Brew, Allan T., to Imperial Chemical Industries PLC. Fibrous composite materials. 4,678,700, 7-7-87, Cl. 428-198.000.

McAlpin, James J.; and Chow, Wai Y., to Exxon Chemical Patents Inc. Composition for preparing cement-adhesive reinforcing fibers. 4,710,540, 12-1-87, Cl. 525-101.000.

McAneney, T. Brian; Loutfy, Rafik O.; Mammino, Joseph; Nichol-Landry, Deborah J.; and Sypula, Donald S., to Xerox Corporation. Powder coating process for seamless substrates. 4,711,833, 12-8-87, Cl. 430-131.000.

McAnulty, John A., Sr., to Hughes Aircraft Company. Underwater electric cable tension termination. 4,673,231, 6-16-87, Cl. 439-587.000.

McArthur, Donald A., to Denjoy, Inc. Bakery equipment for making funnel cakes and the like. 4,651,633, 3-24-87, Cl. 99-335.000.

McArthur, Hamish: *See*—
Baker, Bruce G.; Clark, Neville J.; McArthur, Hamish; and Summerville, Edward I., 4,666,880, Cl. 502-302.000.

McArthur, James. Drive unit for exercising apparatus. 4,637,607, 1-20-87, Cl. 272-132.000.

McArthur, James R. Casing stabbing and positioning apparatus. 4,652,195, 3-24-87, Cl. 414-22.000.
McArthur, Jim. Multi-mode exercising apparatus. 4,711,450, 12-8-87, Cl. 272-129.000.
McArthur, William A. Tissue-stimulating electrode having sealed, low-friction extendable/retractable active fixation means. 4,649,938, 3-17-87, Cl. 128-785.000.
McAtee, Kevin R.; and Alsop, Brian H., to Westinghouse Electric Corp. Controlling a nuclear reactor with dropped control rods. 4,699,749, 10-13-87, Cl. 376-216.000.
McAulay, Alastair D., to Texas Instruments Incorporated. Accurate location sonar and radar. 4,686,532, 8-11-87, Cl. 342-195.000.
McAuley, James A. Method and apparatus for monitoring the density of a liquid. 4,677,851, 7-7-87, Cl. 73-434.000.
McAuley, James A.; and Eppler, Susan G., to TTE Holding Corp. Method and apparatus for optimizing determination of the originating depth of borehole cuttings. 4,708,212, 11-24-87, Cl. 175-42.000.
McAuliffe, Gerald N.: *See*—
Krueger, William R.; McAuliffe, Gerald N.; and Schlageter, George A., 4,675,585, Cl. 318-358.000.
McBain, Douglas S.: *See*—
Hoelscher, Charles H.; and McBain, Douglas S., 4,634,767, Cl. 544-71.000.
McBee, James A.: *See*—
Holley, Edwin S.; and McBee, James A., 4,659,053, Cl. 248-663.000.
McBeth, James, to Teleflex Incorporated. Axial piston pump including ball piston. 4,642,032, 2-10-87, Cl. 417-269.000.
McBeth, James, to Teleflex Incorporated. Hydraulic lock valve with partial return to tank for marine steering. 4,669,494, 6-2-87, Cl. 137-106.000.
McBeth, James B., to Teleflex Incorporated. Air bleeding system for hydraulic closed circuits. 4,685,293, 8-11-87, Cl. 60-327.000.
McBrady, William J.; and Avelis, Julian P., to McBrady, William J. Bottle duster. 4,701,973, 10-27-87, Cl. 15-306.00B.
McBride, Alan L.: *See*—
Gray, James S.; Chamberlin, James W.; McBride, Alan L.; and Schreiner, Peter G., III, 4,660,196, Cl. 370-109.000.
McBride, Carl D.: *See*—
Zupanick, Joseph E.; and McBride, Carl D., 4,671,662, Cl. 356-417.000.
McBride, Dennis J.: *See*—
Dill, Frederick H.; Ling, Daniel T.; Matick, Richard E.; and McBride, Dennis J., 4,667,305, Cl. 364-900.000.
McBride, Desmond E.: *See*—
Welsh, Francis X.; and McBride, Desmond E., 4,651,084, Cl. 324-51.000.
McBride, Donald G.; and Rickert, Robert G., Jr., to International Business Machines Corporation. Method of depositing a metal from an electroless plating solution. 4,652,345, 3-24-87, Cl. 204-14.100.
McBride, Donald G.; and Rickert, Robert G., to International Business Machines Corporation. Method and apparatus for controlling the surface chemistry on objects plated in an electroless plating bath. 4,692,346, 9-8-87, Cl. 427-8.000.
McBride, Donald G.; and Rickert, Robert G., to International Business Machines Corporation. Method and apparatus for controlling the organic contamination level in an electroless plating bath. 4,707,378, 11-17-87, Cl. 427-8.000.
McBride, Donald G.: *See*—
Amelio, William J.; Hume, David W.; McBride, Donald G.; and Rickert, Robert G., 4,639,380, Cl. 427-97.000.
Capwell, Robert J.; Kaschak, Ronald A.; McBride, Donald G.; Rickert, Robert G.; and Seraphim, Donald P., 4,707,377, Cl. 427-8.000.
Clementi, Robert J.; Gazdik, Charles E.; Lafer, William; Lovesky, Roy L.; McBride, Donald G.; Munson, Joel V.; and Skarvinko, Eugene P., 4,681,654, Cl. 156-630.000.
McBride, Edward F.: *See*—
Bellis, Harold E.; and McBride, Edward F., 4,715,967, Cl. 252-8.551.
McBride, Frank. Footwear heel-lock support strapping system. 4,679,334, 7-14-87, Cl. 36-114.000.
McBride, Jim C. Tree branch spreader. 4,649,665, 3-17-87, Cl. 47-42.000.
McBride, Julia K. Electric nail filing device. 4,683,897, 8-4-87, Cl. 132-73.600.
McBride, Lyle E.: *See*—
Grenier, Aime J.; and McBride, Lyle E., 4,654,617, Cl. 335-262.000.
McBride, Richard A.: *See*—
Kaehler, Kristine M.; Krahe, Ronald P.; Miraldi, Peter T.; and McBride, Richard A., 4,687,635, Cl. 422-26.000.
McBride, Thomas R.: *See*—
Compton, Russell A.; Keller, John T.; McBride, Thomas R.; and Kramer, David M., 4,673,880, Cl. 324-309.000.
McBrien, Gregory J.; and Swarts, Richard E., to United Technologies Corporation. Differential torquer. 4,661,753, 4-28-87, Cl. 318-689.000.
McBurney, Kevin B.: *See*—
Aleman, Javier; and McBurney, Kevin B., 4,683,067, Cl. 210-767.000.
McCabe, Charles W.: *See*—
Doss, James D.; and McCabe, Charles W., 4,651,734, Cl. 128-303.140.
McCabe, Derald L., to Laney, James W., a part interest. Distillation system. 4,686,009, 8-11-87, Cl. 202-176.000.
McCabe, Francis J. Aerodynamic shape with improved lift characteristics. 4,655,122, 4-7-87, Cl. 98-119.000.
McCabe, Michael V., to Hitco. Pretreatment of pan fiber. 4,661,336, 4-28-87, Cl. 423-447.200.
McCabe, Paul P.; and Woolston, James, to Raymond Corporation, The. Lift system. 4,655,039, 4-7-87, Cl. 60-328.000.
McCabe, Raymond T. Scaffold system. 4,641,728, 2-10-87, Cl. 182-146.000.
McCabe, Robert W.; and Mitchell, Patricia J., to General Motors Corporation. Method of simultaneous oxidation of carbon monoxide and unburned fuel in methanol vehicle exhaust. 4,673,556, 6-16-87, Cl. 423-213.500.
McCabria, Jack L., to Westinghouse Electric Corp. Transmission with a speed reducer and gear shifter. 4,685,354, 8-11-87, Cl. 74-785.000.
McCabria, Jack L., to Westinghouse Electric Corp. Permanent magnet alternator power generation system. 4,691,119, 9-1-87, Cl. 307-84.000.
McCafferty, Stanley E. Platform assembly for slanted ladder. 4,695,023, 9-22-87, Cl. 248-238.000.
McCaffrey, Charles N. Method for making biscuits of uniform size and quality. 4,664,928, 5-12-87, Cl. 426-503.000.
McCaffrey, Donald B.: *See*—
Church, Royce F.; McCaffrey, Donald B.; and Plude, Leo W., 4,681,286, Cl. 244-129.500.
McCaffrey, John T., to Perkin-Elmer Corporation, The. Atomic absorption spectrophotometer with improved drain trap interlock. 4,647,201, 3-3-87, Cl. 356-315.000.
McCaffrey, John T., to Perkin-Elmer Corporation, The. Power circuit for spectral analysis gaseous discharge lamps. 4,716,342, 12-29-87, Cl. 315-219.000.
McCague, John A., to Owens-Corning Fiberglas Corporation. Method and apparatus for conveying molten material. 4,713,106, 12-15-87, Cl. 65-128.000.
McCain, G. Howard: *See*—
Jarrett, Robert D.; and McCain, G. Howard, 4,687,808, Cl. 525-54.100.
McCain Manufacturing Corporation: *See*—
Bulka, Raymond L.; and Nowaczyk, David J., 4,711,440, Cl. 270-53.000.
McCaleb, Robert E. Photosensitive motion detector apparatus. 4,645,919, 2-24-87, Cl. 250-214.00B.
McCall, Floyd, to Ametek, Inc. Fluid flowmeter. 4,638,672, 1-27-87, Cl. 73-861.520.
McCall, John M., to Upjohn Company, The. Isochromans. 4,711,960, 12-8-87, Cl. 544-364.000.
McCallin, Peter J.: *See*—
Sturtz, Charles R.; and McCallin, Peter J., 4,662,809, Cl. 414-347.000.
McCallion, Elizabeth J.; Karpusiewicz, William; and Irwin, Charles F., to Lever Brothers Company. Bleach composition of detergent base powder and agglomerated manganese-aluminosilicate catalyst having phosphate salt distributed therebetween. 4,655,782, 4-7-87, Cl. 8-111.000.
McCallum, Orval C. Hand-held powered gasket punch. 4,667,411, 5-26-87, Cl. 30-368.000.
McCallum, R. William: *See*—
Keem, John E.; Bergeron, Richard C.; Custer, Russell C.; and McCallum, R. William, 4,637,967, Cl. 429-101.000.
McCallum, Robert; and Mitchell, David, to Caley Hydraulics Limited. Offshore load-handling system. 4,662,300, 5-5-87, Cl. 114-259.000.
McCallum, Robert S.; Plasschaert, Paul E.; Landheer, Dolf; and Gandhi, Hemant M. Ionic print cartridge and printer. 4,679,060, 7-7-87, Cl. 346-159.000.
McCalmon, Miller G.: *See*—
McCauley, Durham S.; and McCalmon, Miller G., 4,686,874, Cl. 81-461.000.
McCambridge, James, to Central Quality Industries, Inc. Vacuum cleaner. 4,654,926, 4-7-87, Cl. 15-327.00D.
McCambridge, James, to Central Quality Industries, Inc. Vacuum cleaner. 4,688,293, 8-25-87, Cl. 15-327.00D.
McCambridge, John M., to Chrysler Motors Corporation. Digital pulse width modulator. 4,689,802, 8-25-87, Cl. 375-22.000.
McCambridge, John M.: *See*—
Miesterfeld, Frederick O. R.; Fassnacht, Ronald E.; and McCambridge, John M., 4,706,082, Cl. 340-825.500.
McCandless, Brian E.; and Birkmire, Robert W., to University of Delaware, The. Process for fabricating thin film photovoltaic solar cells. 4,709,466, 12-1-87, Cl. 437-5.000.
McCandless, Harry E., to RCA Corporation. Method of constructing an electron gun having an improved transition member and product thereof. 4,637,804, 1-20-87, Cl. 445-36.000.
McCandless, Henry A.: *See*—
Song, Yoon S.; and McCandless, Henry A., 4,663,392, Cl. 525-155.000.
McCandlish, Larry E.; and Ho, Teh C., to Exxon Research and Engineering Company. Hydrotreating with self-promoted molybdenum and tungsten sulfide catalyst. 4,663,023, 5-5-87, Cl. 208-112.000.
McCandlish, Larry E.; and Ho, Teh C., to Exxon Research and Engineering Company. Hydroprocessing with self-promoted molybdenum and tungsten sulfide catalyst. 4,705,619, 11-10-87, Cl. 208-112.000.
McCann, Denis J.; and Carswell, Edwin R., to Lucas Industries Public Limited Company. Fluid-pressure operated anti-skid braking systems for vehicles. 4,643,491, 2-17-87, Cl. 303-118.000.
McCann, Denis J.; and Ross, Colin F., to Lucas Industries Public Limited Company. Vehicle anti-skid air braking systems. 4,696,521, 9-29-87, Cl. 303-92.000.

McCann, Gerald P.; Holoubek, Andrew J.; and Verley, Donald, to McCann's Engineering and Manufacturing Co. Liquid dispenser with automatic shut-off. 4,712,591, 12-15-87, Cl. 141-88.000.
McCann, Gerard. *See*—
Byrne, Peter C.; and McCann, Gerard. 4,700,304, Cl. 364-426.000.
McCann, Gilbert D.. *See*—
Shelden, C. Hunter; and McCann, Gilbert D., 4,638,798, Cl. 128-303.00B.
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McCann, Gerald P.; Holoubek, Andrew J.; and Verley, Donald, 4,712,591, Cl. 141-88.000.
McCanny, John V.; and McWhirter, John G., to National Research Development Corporation. Digital data processor incorporating an orthogonally connected logic cell array. 4,639,857, 1-27-87, Cl. 364-200.000.
McCanny, John V.; McWhirter, John G.; and Wood, Kenneth W., to National Research Development Corporation. Pipelined systolic array for matrix-matrix multiplication. 4,686,645, 8-11-87, Cl. 364-754.000.
McCanny, John V.; McWhirter, John G.; and Wood, Kenneth W., to National Research Development Corporation. Digital data processor for multiplying data by a coefficient set. 4,701,876, 10-20-87, Cl. 364-728.000.
McCarroll, Clark. Lock guard. 4,686,840, 8-18-87, Cl. 70-54.000.
McCarroll, John J.. *See*—
Hall, Antony H. P.; and McCarroll, John J., 4,695,663, Cl. 585-417.000.
McCarten, Barry M.. *See*—
Fehn, John H.; Arakawa, Mitsuaki; and McCarten, Barry M., 4,707,664, Cl. 324-322.000.
Harrison, William H.; Arakawa, Mitsuaki; and McCarten, Barry M., 4,682,125, Cl. 333-12.000.
Kaufman, Leon; Carlson, Joseph W.; Arakawa, Mitsuaki; McCarten, Barry M.; and Fehn, John H., 4,703,274, Cl. 324-318.000.
McCarter, Ed R., deceased. *See*—
Thatcher, Arthur K.; and McCarter, Ed R., deceased, 4,674,286, Cl. 60-740.000.
McCarter, James T. Dispensing container for plastic film wrap. 4,666,072, 5-19-87, Cl. 225-25.000.
McCarter, Rebecca A., executrix. *See*—
Thatcher, Arthur K.; and McCarter, Ed R., deceased, 4,674,286, Cl. 60-740.000.
McCarthy, Alfred F.. *See*—
Johnson, Philip A.; and McCarthy, Alfred F., 4,679,118, Cl. 361-386.000.
McCarthy, Brian D.; and Edwards, Michael. Night vision goggle arrangement with automatic release. 4,689,834, 9-1-87, Cl. 2-422.000.
McCarthy, Christopher I.; and Currier, David W., to Motorola, Inc. Inductor housing. 4,658,091, 4-14-87, Cl. 174-52.0PE.
McCarthy, Daniel M., to Honeywell Information Systems Inc. Merge control apparatus for a store into cache of a data processing system. 4,680,702, 7-14-87, Cl. 364-200.000.
McCarthy, Francis W. Calendar/file/memo systems. 4,703,571, 11-3-87, Cl. 40-107.000.
McCarthy, James M.. *See*—
Newsom, Steven S.; and McCarthy, James M., 4,680,584, Cl. 340-850.000.
McCarthy, James R.. *See*—
Bargar, Thomas M.; Broersma, Robert, Jr.; and McCarthy, James R., 4,703,058, Cl. 514-471.000.
McCarthy, John F.. *See*—
Badger, Christopher W.; Burdette, Everette C.; Leech, Steven C.; and McCarthy, John F., 4,638,436, Cl. 364-414.000.
McCarthy, John M. Multi-level dynamic priority selector groups of data elements. 4,644,467, 2-17-87, Cl. 364-200.000.
McCarthy, Laurence R.; and Perks, H. Mark, to Becton, Dickinson and Company. Lectin-coated latex agglutination assay for Neisseria gonorrhoeae. 4,659,658, 4-21-87, Cl. 435-34.000.
McCarthy, Michael J.. *See*—
Chiang, John S. C.; and McCarthy, Michael J., 4,663,002, Cl. 204-82.000.
McCarthy, Stephen J.. *See*—
Ngoc Le, Quang; McCarthy, Stephen J.; and Mitchell, Kenneth M., 4,689,312, Cl. 502-38.000.
McCarthy, Timothy D.; Christians, Scott T.; and Olmstead, A. Dale, to Motorola, Inc. Field presettable electronic odometer. 4,642,787, 2-10-87, Cl. 364-561.000.
McCarthy, Walton W. Theta blast cell. 4,660,334, 4-28-87, Cl. 52-169.600.
McCartney, Charles L. Method and apparatus for pulling a nose plug from a lock. 4,707,903, 11-24-87, Cl. 29-426.500.
McCartney, Charles P.; Susko, Edward W.; and Crouse, Joseph T., to General Motors Corporation. Battery and handle therefor. 4,673,625, 6-16-87, Cl. 429-187.000.
McCartney, Charles P., Jr.. *See*—
Bish, James R.; McCartney, Charles P., Jr.; and Meadows, Clarence A., 4,683,180, Cl. 429-130.000.
McCartney, Michael S., to Combustion Engineering, Inc. Volume reduction of low-level radiation waste by incineration. 4,700,637, 10-20-87, Cl. 110-237.000.
McCartney, Michael S.. *See*—
Santalla, Richard W.; Kokkinos, Angelos; Collette, Robert J.; and McCartney, Michael S., 4,672,900, Cl. 110-264.000.
McCartney, Ronald L.; and Marovich, Frank A., to American Hospital Supply Corporation. Attachment of optical fibers to a connector body. 4,647,149, 3-3-87, Cl. 350-96.200.
McCartney, Ronald L., to American Hospital Supply Corporation. Optical catheter. 4,711,522, 12-8-87, Cl. 350-96.210.
McCarty, Barbara A. Planning and control system for regulating food consumption. 4,652,241, 3-24-87, Cl. 434-127.000.
McCarty, Danny W. Sound barrier fence. 4,674,593, 6-23-87, Cl. 181-210.000.
McCarty, Frederick B., to Garrett Corporation, The. Hybrid excited generator with flux control of consequent-pole rotor. 4,656,379, 4-7-87, Cl. 310-181.000.
McCarty, Lon H. Door assembly. 4,658,544, 4-21-87, Cl. 49-236.000.
McCarty, Robert S., to Garrett Corporation, The. Lubrication apparatus. 4,697,414, 10-6-87, Cl. 60-39.080.
McCarty, Steven; and Perrin, Ralph. Record cleaning apparatus and method. 4,675,053, 6-23-87, Cl. 134-21.000.
McCarty, William J.. *See*—
Pohl, Walter J.; McCarty, William J.; and Hicks, Frederick E., 4,662,184, Cl. 62-156.000.
McCarver, Byron M.. *See*—
Sansing, James E.; and McCarver, Byron M., 4,637,921, Cl. 423-315.000.
McCaskey, John P.. *See*—
Gudaitis, Donald A.; McCaskey, John P.; and Hostetler, Michael S., 4,688,168, Cl. 364-200.000.
McCaskill, Rex A.; and Wang, John S., to International Business Machines Corp. Graphic highlight adjacent a pointing cursor. 4,698,625, 10-6-87, Cl. 340-709.000.
McCaskill, Rex A.. *See*—
Barker, Barbara A.; Hernandez, Irene H.; and McCaskill, Rex A., 4,674,040, Cl. 364-300.000.
Barker, Barbara A.; Hernandez, Irene H.; and McCaskill, Rex A., 4,698,624, Cl. 340-709.000.
Hernandez, Irene H.; McCaskill, Rex A.; and Barker, Barbara A., 4,663,615, Cl. 340-721.000.
McCasland, Charles S.. *See*—
Johnson, Carl H.; Copnedge, Charles D.; and McCasland, Charles S., 4,664,619, Cl. 431-154.000.
McCaughan, James S., Jr., to Laser Therapeutics, Inc. Apparatus for producing a cylindrical pattern of light and method of manufacture. 4,660,925, 4-28-87, Cl. 350-96.150.
McCaughan, James S., Jr., to Laser Therapeutics, Inc. Apparatus for producing a spherical pattern of light and method of manufacture. 4,693,556, 9-15-87, Cl. 350-320.000.
McCaughey, Michael P. Method for synchronizing a tape recorder to a computer under program control. 4,673,993, 6-16-87, Cl. 360-79.000.
McCaul, Joseph P., to Standard Oil Company, The. Improved high nitrile resins and process of preparing. 4,704,412, 11-3-87, Cl. 522-151.000.
McCaul, Ronald D.. *See*—
Seaman, Roy C.; and McCaul, Ronald D., 4,644,649, Cl. 30-229.000.
McCauley Corporation Limited. *See*—
Glickman, Michael N., 4,711,599, Cl. 404-41.000.
McCauley, Daniel F.. *See*—
Forsyth, Thomas C., III; Kline, Leonard J., Jr.; and McCauley, Daniel F., 4,669,952, Cl. 415-119.000.
McCauley, Durham S.; and McCalmon, Miller G., to McGard, Inc. Tamper-proof bolt and tamper-proof bolt-key combination. 4,686,874, 8-18-87, Cl. 81-461.000.
McCauley, Durham S.; and Sullivan, Jeffrey R., to McGard, Inc. Pipe plug and centering construction for centering ridged key in mating groove in pipe plug. 4,712,586, 12-15-87, Cl. 138-89.000.
McCauley, Jon R.; Smallwood, Troy L.; and Welliver, Paul, to Textron Inc. Wood-metal drill screw. 4,645,396, 2-24-87, Cl. 411-387.000.
McCauley, Lewis D., to McGard, Inc. Locknut and key therefor. 4,648,293, 3-10-87, Cl. 81-436.000.
McCauley, Lewis D.. *See*—
Bainbridge, Gary R.; McCauley, Lewis D.; and Sullivan, Jeffrey R., 4,633,896, Cl. 137-296.000.
McCauley, Porter T.. *See*—
Wolff, Donald L.; McCauley, Porter T.; Stiefel, Paul; Takacs, Gyoergy J.; and Adams, Roman A., 4,715,786, Cl. 417-22.000.
McCauley, Robert G. Water collecting and spring box and gauging system and holding tank. 4,700,734, 10-20-87, Cl. 137-236.100.
McCaully, Ronald J.. *See*—
Buzby, George C., Jr.; Winkley, Michael W.; and McCaully, Ronald J., 4,644,081, Cl. 562-456.000.
Winkley, Michael W.; and McCaully, Ronald J., 4,645,857, Cl. 562-456.000.
McCausland, Calvin W.; and Palombo, Louis A., to Nature's Sunshine Products, Inc. Portable water purification system. 4,670,144, 6-2-87, Cl. 210-244.000.
McCavour, Thomas C.. *See*—
Minialoff, Joseph M.; Blendick, Leonard E.; and McCavour, Thomas C., 4,700,511, Cl. 52-1.000.
McCharles, Donald A.. *See*—
Seung, Michael B.; Sivalingham, Ramalingam; Bullen, David A.; Anderson, Andrew G.; and McCharles, Donald A., 4,662,861, Cl. 474-86.000.
McChristian, Robert L., Jr. Dual mode fishing reel assembly. 4,715,555, 12-29-87, Cl. 242-84.50R.
McClaflin, Gifford G.; and Yang, Kang, deceased (by Yang, Kumsu, executrix), to Conoco Inc. Composition and method for treatment of

wellbores and well formations containing paraffin. 4,668,408, 5-26-87, Cl. 252-8.552.

McClain, Dorothee M., to National Distillers and Chemical Corporation. Preparation of ethylene-acrylic acid copolymer or salt thereof. 4,638,034, 1-20-87, Cl. 525-369.000.

McClain, Ray; Ross, Robert; and Beach, Donald R. Padding machines. 4,664,791, 5-12-87, Cl. 209-421.000.

McClanahan, Robert F.; Washburn, Robert; and Hwang, William, to Hughes Aircraft Company. Traveling wave tube drive controller. 4,709,215, 11-24-87, Cl. 330-43.000.

McClaran, Tom. Lumber surfacing machine. 4,712,596, 12-15-87, Cl. 144-3.00R.

McClean, John W., to Breville R & D Pty. Ltd. Heating hair rollers. 4,685,479, 8-11-87, Cl. 132-36.00R.

McClean, John W., to Breville R & D Pty. Limited. Food processors. 4,700,901, 10-20-87, Cl. 241-37.500.

McCleerey, Earl W.: *See—*
Himes, John L., Jr.; McCleerey, Earl W.; and Reynolds, Charles E., 4,70..,412, Cl. 439-95.000.

McClellan, Arthur W.: *See—*
Albertini, Rocco D.; McClellan, Arthur W.; and Kokoszka, Stephen A., 4,651,669, Cl. 114-304.000.

McClellan, Gary C. Holster and handgrip extension for miniature handguns. 4,689,908, 9-1-87, Cl. 42-71.020.

McClellan, Joe D.: *See—*
Kartchner, Niles R.; and McClellan, Joe D., 4,676,518, Cl. 280-276.000.

McClellan, William R.: *See—*
Gorman, Michael J.; and McClellan, William R., 4,638,678, Cl. 74-476.000.

McClelland, Mark E.: *See—*
Mullersman, Ferdinand H.; and McClelland, Mark E., 4,698,578, Cl. 320-13.000.

McClelland, Robert D.: *See—*
Baird, David B.; Baker, Ronald; Fishwick, Brian K.; and McClelland, Robert D., 4,658,040, Cl. 549-68.000.

McClelland, Sandra K.; Conrad, Neal D.; and Desai, Nitin V., to RCA Corporation. Seal for liquid crystal display. 4,695,490, 9-22-87, Cl. 428-1.000.

McClelland, Thomas W. Chuck key and extension member for a chuck key. 4,634,321, 1-6-87, Cl. 402-241.00R.

McClenaghan, Ian: *See—*
Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter; Lunt, Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Warne, Peter J., 4,659,727, Cl. 514-370.000.

McClintock, Jack M., to Morgan Adhesives Co. Composite pressure sensitive seal adhesive construction. 4,704,315, 11-3-87, Cl. 428-40.000.

McClintock, Willard K.: *See—*
Heggart, Ronald G.; McClintock, Willard K.; and Engstrom, Randy J., 4,715,042, Cl. 373-74.000.

McClintock, William A., to Phillips Petroleum Company. Finned or serrated rod baffles for finned tube-shell heat exchanger. 4,657,073, 4-14-87, Cl. 165-159.000.

McClish, Richard R.: *See—*
Quinn, Clayton B.; McClish, Richard R.; and Moore, James E., 4,714,657, Cl. 428-412.000.

McCloskey, Albert R., to Incom International Inc. Bearings with felted teflon liners and method for making same. 4,674,164, 6-23-87, Cl. 29-149.50B.

McCloskey, Antone J., to Gator Culvert Company. Soil retaining apparatus and blocks therefor. 4,661,012, 4-28-87, Cl. 405-16.000.

McCloskey, Clark E.: *See—*
Dixon, Glen A.; McCloskey, Clark E.; Chambers, David L.; Hawk, Woodrow D.; and McCracken, Oliver W., 4,633,954, Cl. 166-372.000.
Dixon, Glenn A.; McCloskey, Clark E.; Chambers, David L.; Hawk, Woodrow D.; and McCracken, Oliver W., 4,685,522, Cl. 166-372.000.

McCloskey, Paul S. Control and drive arrangement for movable members. 4,713,591, 12-15-87, Cl. 318-257.000.

McCloud, Hal E.: *See—*
Engelken, Robert D.; and McCloud, Hal E., 4,681,777, Cl. 427-87.000.

McCloud, John W., II: *See—*
Gantzhorn, John E., Jr.; McCloud, John W., II; and Uhler, Robert O., 4,698,701, Cl. 360-16.000.

McCloy, W. Stuart, Jr.: *See—*
Demonbreun, Betty J., 4,641,507, Cl. 70-339.000.

McCloy, W. Stuart, Sr.: *See—*
Demonbreun, Betty J., 4,641,507, Cl. 70-339.000.

McCluer, Robert: *See—*
Catsimpoolas, Nicholas; McCluer, Robert; Sinn, Robert S.; and Evans, James, 4,710,490, Cl. 514-25.000.

McClune, Donald W.: *See—*
Kunkle, John P.; and McClune, Donald W., 4,682,829, Cl. 439-83.000.
Lundergan, Robert G.; and McClune, Donald W., 4,640,567, Cl. 339-94.00M.

McClune, June A. Treated cloth and method of preparing same. 4,645,706, 2-24-87, Cl. 428-196.000.

McClung, Andrew C. Ski boot remover. 4,666,070, 5-19-87, Cl. 223-117.000.

McClung, Charles S.: *See—*
Rainer, Norman B.; and McClung, Charles S., 4,637,408, Cl. 131-331.000.

McClung, Frederick J., Jr.; and Small, James G., to Hughes Aircraft Company. Apparatus and method for spatially characterizing and controlling a particle beam. 4,700,068, 10-13-87, Cl. 250-251.000.

McClung, James A.: *See—*
Bulso, Joseph D., Jr.; and McClung, James A., 4,696,177, Cl. 72-379.000.
Bulso, Joseph D., Jr.; and McClung, James A., 4,713,958, Cl. 72-348.000.
Bulso, Joseph D., Jr.; and McClung, James A., 4,715,208, Cl. 72-348.000.

McClure, David E.: *See—*
Atkinson, Joseph G.; Baldwin, John J.; and McClure, David E., 4,656,168, Cl. 514-234.000.
Atkinson, Joseph G.; Baldwin, John J.; and McClure, David E., 4,686,222, Cl. 514-255.000.
Baldwin, John J.; Pitzenberger, Steven M.; and McClure, David E., 4,675,321, Cl. 514-274.000.
Baldwin, John J.; McClure, David E.; and Claremon, David A., 4,677,102, Cl. 514-218.000.
Claremon, David A.; and McClure, David E., 4,677,101, Cl. 514-215.000.

McClure, George R., and Vassilou, Eustathios, to Du Pont de Nemours, E. I. and Company. Plasticized poly(vinyl fluoride). 4,698,382, 10-6-87, Cl. 524-292.000.

McClure, Gerald B.; and Bartges, George R., to Dresser Industries, Inc. Apparatus and method for use in subsurface oil and gas well perforating device. 4,650,009, 3-17-87, Cl. 175-4.600.

McClure, Jack A., to Inland Container Corporation. Fold line relief cuts for paperboard containers and method of fabrication. 4,676,428, 6-30-87, Cl. 229-16.00R.

McClure, Matthew: *See—*
Gleason, Francis E.; Emmert, Deborah A.; McClure, Matthew; and McEwan, Ronald W., 4,664,710, Cl. 106-23.000.

McClure, Murray C., to Common Market Investment Ltd. Redeemable coupon. 4,634,147, 1-6-87, Cl. 283-56.000.

McClure, Richard J., to Eastman Kodak Company. Piezoelectric driven mass storage. 4,636,893, 1-13-87, Cl. 360-101.000.

McClure, Richard J., to Eastman Kodak Company. Edge guided magnetic tape tracking. 4,670,800, 6-2-87, Cl. 360-77.000.

McClure, Richard J., to Eastman Kodak Company. Slant gap thin-film head having first and second wedge-shaped structures. 4,701,820, 10-20-87, Cl. 360-125.000.

McClure, Richard J.; and Jeffers, Frederick J., to Eastman Kodak Company. Apparatus utilizing dispersion shear. 4,714,324, 12-22-87, Cl. 350-362.000.

McClure, Thomas V.: *See—*
Zybko, Walter C.; Wald, William; and McClure, Thomas V., 4,680,209, Cl. 428-35.000.

McClure, William E.: *See—*
Kelley, Frederick T., 4,635,940, Cl. 273-347.000.

McClure, William L. Deep sea mining apparatus. 4,681,372, 7-21-87, Cl. 299-8.000.

McCole, Thomas P., to Polaroid Corporation. Self-developing integral film unit. 4,693,963, 9-15-87, Cl. 430-499.000.

McColgin, William C.: *See—*
Molaire, Michel F.; Scozzafava, Michael; and McColgin, William C., 4,650,734, Cl. 430-7.000.

McColl, J. D.: *See—*
Garlen, David; Koehn, Hilde R.; Koehn, Peter W.; and McColl, J. D., 4,707,354, Cl. 424-47.000.

McColl, John W., to Borg-Warner Corporation. Hydraulically actuated starting clutch assembly. 4,699,259, 10-13-87, Cl. 192-70.120.

McColl, John W.; Mott, Philip J.; and Salle, Ralph D., to Borg-Warner Automotive, Inc. Starting clutch assembly for a continuously variable transmission. 4,706,789, 11-17-87, Cl. 192-0.075.

McColloch, Rex, Jr.: *See—*
May, William E.; McColloch, Rex, Jr.; and King, William A., 4,680,672, Cl. 361-353.000.

McCollough, Mike: *See—*
Baratti, James J.; McCollough, Mike; and Gouzoules, Glenn P., 4,697,279, Cl. 377-73.000.

McCollum, Bill C.; Kenyon, Peter T.; and Andrews, Leonard J., to GTE Laboratories Incorporated. Chromium (3+) doped germanate garnets as active media for tunable solid state lasers. 4,648,094, 3-3-87, Cl. 372-41.000.

McCollum, Gregory J.; Scriven, Roger L. Christenson, Roger M.; Mauer, George W.; and Zwack, Robert R., to PPG Industries, Inc. Cationic coating compositions for electrodeposition over rough steel. 4,711,917, 12-8-87, Cl. 523-400.000.

McCollum, John D.: *See—*
Wolff, William F.; and McCollum, John D., 4,668,380, Cl. 208-430.000.

McCollum, Patrick E.; and Colan, Mark E., to Rockwell International Corporation. Off line capacitor-divider power supply for solid state power controller. 4,665,355, 5-12-87, Cl. 323-237.000.

McCollum, Patrick E.: *See—*
Kinoshita, Roy Y.; McCollum, Patrick E.; and Colan, Mark E., 4,705,962, Cl. 307-247.100.

McComas, Charles C.; and Stewart, Dennis C., to United Technologies Corporation. Repair of surface defects in superalloy articles. 4,705,203, 11-10-87, Cl. 228-119.000.

McCombie, Stuart W., to Schering Corporation. 6-hydroxyalkyl-2-(substituted-thio)penem-3-carboxylic acids. 4,683,226, 7-28-87, Cl. 514-192.000.
McCombie, Stuart W.: *See*—
Nagabhushan, Tattanahalli L.; and McCombie, Stuart W., 4,677,214, Cl. 549-551.000.
McCombs, Craig C.; and Farris, Richard D., to NCR Corporation. High speed master-slave flip-flop. 4,656,368, 4-7-87, Cl. 307-272.00A.
McCombs, Craig C., to NCR Corporation. High speed counter with decoding means and means for selecting second and higher order counter stages to be toggled. 4,669,101, 5-26-87, Cl. 377-114.000.
McComsey, Lee E.: *See*—
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McConaghy, James R., Jr., to Conoco Inc. Short residence time hydrogen donor diluent cracking process. 4,698,147, 10-6-87, Cl. 208-107.000.
McConchie, Garnet E.: *See*—
Swearingen, Loren L.; Embrey, Wallace E.; LaTulip, Randy J.; Earls, Jim D.; and McConchie, Garnet E., 4,701,529, Cl. 546-251.000.
McConkey, Stephen E.: *See*—
Patell, Farrokh A.; and McConkey, Stephen E., 4,640,312, Cl. 138-109.000.
Patell, Farrokh A.; and McConkey, Stephen E., 4,698,887, Cl. 29-157.00R.
McConkle, Charles C.; O'Neil, William F.; Meier, Michael J.; Fjeldsted, Thomas P.; Thomas, James L.; and Pfeifer, Arthur C., to Rockwell International Corporation. Infrared detector and imaging system. 4,670,653, 6-2-87, Cl. 250-330.000.
McConnell, Bernard E. Universal extremity positioner. 4,702,465, 10-27-87, Cl. 269-328.000.
McConnell, Bernard E., and McConnell, Thomas E. Ball joint coupling. 4,708,510, 11-24-87, Cl. 403-90.000.
McConnell, Bobby L.: *See*—
Dressler, John L.; McConnell, Bobby L.; Glenn, Michael L.; and Holder, Joseph P., 4,650,694, Cl. 427-32.000.
McConnell, Christopher F.; and Walter, Alan E., to CFM Technologies Limited Partnership. Apparatus for treating semiconductor wafers. 4,633,893, 1-6-87, Cl. 134-95.000.
McConnell, David P., Jr. Vibratory crushing apparatus. 4,702,425, 10-27-87, Cl. 241-156.000.
McConnell Dowell Constructors Limited: *See*—
Pope, Paul B., 4,640,532, Cl. 285-41.000.
McConnell, Harden M.: *See*—
Humphries, Gillian M. K.; Parce, John W.; and McConnell, Harden M., 4,704,353, Cl. 435-4.000.
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cDermott, Brian K., to Olin Corporation. Projectile with enhanced target penetrating power. 4,648,324, 3-10-87, Cl. 102-518.000.
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cDermott, Daniel J., to Westinghouse Electric Corp. System for charging containers with solids suspended in a carrier fluid. 4,673,008, 6-16-87, Cl. 141-198.000.
cDermott, Daniel R. Gravity-conveyor chute section. 4,640,403, 2-3-87, Cl. 193-34.000.
cDermott, Eve C. Bundling device. 4,681,032, 7-21-87, Cl. 100-34.000.
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cDermott International, Inc.: *See*—
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Montgomery, George J., IV; and Aghili, Hafez K., 4,695,303, Cl. 62-24.000.
cDermott, Julian A. Visual alarm reliability assurance system. 4,668,935, 5-26-87, Cl. 340-332.000.
cDermott, Julian A.; and McDermott, Kevin. Lighting fixture. 4,677,533, 6-30-87, Cl. 362-240.000.
cDermott, Julian A. Battery charging apparatus. 4,691,157, 9-1-87, Cl. 320-2.000.
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cDermott, Julian A. High voltage protector. 4,713,653, 12-15-87, Cl. 340-654.000.
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McDonald, Edward; and Salmon, Roger, to Imperial Chemical Industries PLC. Pyrimidine substituted-2,2-dimethylcyclopropane carboxylates useful for combating insect and acarine pests at a locus. 4,661,488, 4-28-87, Cl. 514-256.000.
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Krieg, James C., 4,688,037, Cl. 340-825.720.
Meier, Rudolf H., 4,665,895, Cl. 126-438.000.
Morgan, Harry C., 4,665,382, Cl. 340-347.0AD.
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Van Ornum, Charles A., 4,693,001, Cl. 29-759.000.
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Yasui, Ken K.; Williams, Neil R.; Ecklund, Richard C.; Hayase, Masashi; and Walkington, Robert J., 4,708,008, Cl. 72-60.000.
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Kramer, S. Bertram; and Sampatacos, Evan P., 4,715,263, Cl. 89-37.210.
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McEvoy, Thomas J. *See*—
McNeil, Charles B.; and McEvoy, Thomas J., 4,710,165, Cl. 604-67.000.
McEwan, Keith J. B., to Lucas Industries Public Limited Company. Electric storage battery. 4,693,948, 9-15-87, Cl. 429-121.000.
McEwan, Peter M.; and Thomas, Iorwerth, to National Research Development Corporation. Circuit breakers for direct and alternating current. 4,686,393, 8-11-87, Cl. 307-31.000.
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McFadden, Arthur. *See*—
Shetty, Bola V.; McFadden, Arthur; and Hoter, Peter, 4,639,529, Cl. 548-550.000.
McFadden, Russell T., to Dow Chemical Company, The. Thermoset acrylic coatings having improved gloss retention. 4,654,398, 3-31-87, Cl. 524-512.000.
McFadden, Russell T.; Grilli, David A.; and Hunt, William R., to Dow Chemical Company, The. Acrylic coating compositions and method therefor. 4,670,512, 6-2-87, Cl. 525-223.000.
McFadzen, David B. *See*—
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McFall, John D. *See*—
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McFalls, Bob L.; Myers, Timothy S.; and Fudala, Chester, to Ferro Manufacturing Corporation. Tilt worm recliner. 4,685,735, 8-11-87, Cl. 297-362.000.
McFarland, Cecil G., to Petro-Tex Chemical Corporation. Acetylene removal process. 4,644,088, 2-17-87, Cl. 585-658.000.
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McFarland, Robert E. Wheelchair loading apparatus. 4,671,729, 6-9-87, Cl. 414-462.000.
McFarland, Robert E. Apparatus for loading a wheelchair or similar object. 4,685,860, 8-11-87, Cl. 414-720.000.
McFarland, Ronald F.; and Apparcel, Richard A. Segmented tubular fishing gear container. 4,700,502, 10-20-87, Cl. 43-21.200.
McFarland, Ruth E. *See*—
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McFarland, Timothy M.; and Lang, Theodore B., to Kimberly-Clark Corporation. Selective layering of superabsorbents in meltblown substrates. 4,655,757, 4-7-87, Cl. 604-366.000.
McFarland, William W.; Gandy, Russell E.; and Churvis, Michael A., to International Paper Company. Laminated bulk bin corner structure. 4,693,413, 9-15-87, Cl. 229-48.00R.
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McFarlane, Norman D.; Glock, John T.; and Hambly, John G., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Pickaback bridge spans for use with an inversion-launch bridgelayer. 4,649,587, 3-17-87, Cl. 14-2.400.
McFarlane, Reuben C. Heavy crude oil production tool and method. 4,700,781, 10-20-87, Cl. 166-303.000.
McFarlane, Richard H. Flashback structure. 4,710,173, 12-1-87, Cl. 604-168.000.
McFarlane, Robert J., to Ferranti plc. Apparatus for the removal of helmet-mounted equipment. 4,651,951, 3-24-87, Cl. 244-1.00R.
McFarlin, Terry. Integral lightweight tent and box for portable applications. 4,637,416, 1-20-87, Cl. 135-109.000.
McFay, Dennis J. *See*—
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McFee, Richard. Bounce board exerciser. 4,645,197, 2-24-87, Cl. 272-65.000.
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Daeschel, Mark A.; McFeeters, Roger F.; Fleming, Henry P.; Klaenhammer, Todd R.; and Sanozky, Rosemary B., 4,666,849, Cl. 435-253.000.
McGaha, Larry E. Composition and method for cleaning painted surfaces. 4,639,327, 1-27-87, Cl. 252-143.000.
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McGard, Inc. *See*—
Bainbridge, Gary R.; McCauley, Lewis D.; and Sullivan, Jeffrey R., 4,633,896, Cl. 137-296.000.
Bainbridge, Gary R., 4,664,000, Cl. 81-451.000.
McCauley, Durham S.; and McCalmon, Miller G., 4,686,874, Cl. 81-461.000.
McCauley, Durham S.; and Sullivan, Jeffrey R., 4,712,586, Cl. 138-89.000.
McCauley, Lewis D., 4,648,293, Cl. 81-436.000.
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Sachs, Frederick; Auerbach, Anthony; McGarrigle, Richard G.; and Neil, James E., 4,695,709, Cl. 219-494.000.
McGarrity, George V.; Foster, David C.; and Hurford, Duane, to Bristol Corporation. Three-way valve. 4,669,503, 6-2-87, Cl. 137-625.410.
McGarry, Jerome, to Economatics (Education) Limited. Technology teaching apparatus. 4,650,425, 3-17-87, Cl. 434-219.000.
McGarry, Phillip E.; Herman, David E.; Treskot, Robert A.; and Fistner, David C., Sr., to Standard Oil Company, The. Apparatus and method for flotation separation utilizing an improved spiral spray nozzle. 4,650,567, 3-17-87, Cl. 209-166.000.
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McGary, Charles W.; and Solomon, Donald D., to Becton, Dickinson and Company. Thermoplastic polyurethane anticoagulant alloy coating. 4,676,975, 6-30-87, Cl. 424-423.000.
McGary, Charles W.; and Solomon, Donald D., to Deseret Medical, Inc. Thermoplastic polyurethane anticoagulant alloy coating. 4,678,660, 7-7-87, Cl. 424-25.000.
McGary, Charles W. *See*—
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Williamitis, Victor A.; and McGary, Charles W., 4,664,657, Cl. 604-265.000.
McGary, Charles W., Jr. *See*—
Taller, Robert A.; and McGary, Charles W., Jr., 4,684,490, Cl. 264-296.000.
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McGauran, Hugh K. *See*—
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McGean-Rohco, Inc. *See*—
Beach, Sidney C.; and Fellman, Jack D., 4,673,469, Cl. 204-38.400.
Dpaskar, Vincent C.; and Bokisa, George S., 4,662,999, Cl. 204-44.400.
McGee, Daniel P. C. *See*—
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McGee, Daniel W., to Magnetics Research International Corporation. Permanent magnet variable reluctance generator. 4,639,626, 1-27-87, Cl. 310-155.000.
McGee, James N., Jr., to Burlington Industries, Inc. Reinforced V-belt containing fiber-loaded non-woven fabric and method for producing same. 4,684,569, 8-4-87, Cl. 428-286.000.
McGee, Jeffrey S. *See*—
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Kirkpatrick, Lloyd V.; and McGee, John R., 4,703,664, Cl. 73-866.500.
McGee, Michael H. Garage door lock system. 4,659,121, 4-21-87, Cl. 292-144.000.
McGee, Peter C.; and Beck, Herman O., to McGee, Peter C. Overfeed stoker. 4,646,662, 3-3-87, Cl. 110-289.000.
McGeehan, Joseph P.; and Bateman, Andrew, to National Research Development Corporation. Data transmission using a transparent tone-in band system. 4,679,243, 7-7-87, Cl. 455-47.000.
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McGeehee, Ronald W. Saw guide oil system. 4,635,513, 1-13-87, Cl. 83-169.000.
McGehee, Bobby L. *See*—
Topuess, Paul C.; McGehee, Bobby L.; and Woodcock, Roy, 4,671,734, Cl. 415-69.000.
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McGhan Medical Corporation. *See*—
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McGhee, Charles M. Bathtub valve fixture module. 4,654,900, 4-7-87, Cl. 4-191.000.
McGhee, James B.; Egan, Joseph W.; and Hill, Leslie C., to Hill, Leslie C. Integrated, usage-dependent temperature control for gas water heaters. 4,700,886, 10-20-87, Cl. 236-25.00R.
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McGlone, John T.; and McGiboney, Ralph L., 4,655,660, Cl. 411-366.000.
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McGill, Stephen T.; and McGill, Bette L., 4,688,023, Cl. 340-545.000.
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Kennedy, Paul E., 4,670,028, Cl. 55-48.000.
Kennedy, Paul E., 4,715,868, Cl. 55-48.000.
McGill, James C.; Schindeler, John W., Jr.; McGill, Eugene C.; and Rawlings, Robert L., 4,634,369, Cl. 431-3.000.
McGill, James C.; Schindeler, John W., Jr.; McGill, Eugene C.; and Rawlings, Robert L., to McGill Incorporated. Purging process. 4,634,369, 1-6-87, Cl. 431-3.000.
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McGill Manufacturing Company, Inc. *See*—
Oika, Thomas F., 4,667,073, Cl. 200-317.000.
Resh, John, 4,699,451, Cl. 200-6.00C.
Sulkamp, Gary A., 4,685,184, Cl. 29-148.40R.
McGill, Philip J. Head covering with movable animations. 4,658,446, 4-21-87, Cl. 2-209.100.
McGill, Stephen T.; and McGill, Bette L., to Highsmith, Stephen C. Container having child safety device and alarm. 4,688,023, 8-18-87, Cl. 340-545.000.
McGilvery, James D. *See*—
Twardowski, Zbigniew; and McGilvery, James D., 4,683,039, Cl. 204-95.000.
McGimpsey, Samuel B., to Vaal Reefs Mining and Exploration Co., Ltd. Cage deck. 4,695,219, 9-22-87, Cl. 414-787.000.
McGinity, James W. *See*—
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McGinsey, John V. M., to Picker International Ltd. Electromagnet arrangements for producing a magnetic field of high homogenity. 4,710,741, 12-1-87, Cl. 335-296.000.
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Hoffman, Dorothy M.; Tams, Frederick J., III; and McGinn, Joseph T., 4,657,537, Cl. 156-612.000.
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McGinn, Vincent P. Photo-conductive element operative in the microwave region and a light-steerable antenna array incorporating the photo-conductive element. 4,636,794, 1-13-87, Cl. 342-368.000.
McGinnis, Gregor E. Stunt kite string winder. 4,653,702, 3-31-87, Cl. 242-96.000.
McGinnis, Henry J. Tower and method of constructing a tower. 4,694,630, 9-22-87, Cl. 52-649.000.
McGinnis, Mark L. *See*—
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McGinnis, William H. *See*—
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McGinniss, Vincent D., to Battelle Development Corporation. Surface enhancement through chlorination of the molecular surface layer of polymeric solids. 4,661,524, 4-28-87, Cl. 522-131.000.
McGinniss, Vincent D. *See*—
Nohr, Ronald S.; and McGinniss, Vincent D., 4,666,452, Cl. 8-115.520.
McGlade, David. *See*—
Duffy, Edward P.; Craggs, Geoffrey B.; and McGlade, David, 4,653,012, Cl. 364-518.000.
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McGlashan, Kenneth W., to RCA Corporation. Raster distortion corrector for cathode ray tubes. 4,654,615, 3-31-87, Cl. 335-211.000.
McGlashen, James N., to Apsley Metals Limited. Manufacture of pneumatic tires. 4,708,840, 11-24-87, Cl. 264-501.000.
McGlashen, James N., to Apsley Metals Limited. Vehicle and tire therefore. 4,714,099, 12-22-87, Cl. 152-523.000.
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McGlone, John T.; and McGiboney, Ralph L., to United States of America, Navy. Low-profile fastener. 4,655,660, 4-7-87, Cl. 411-366.000.
McGlothen, Jody R.; and Little, Damon P., to Dresser Industries, Inc. Parallel flow tube apparatus. 4,637,460, 1-20-87, Cl. 166-189.000.
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Spriggs, Dennis M.; and McGlothen, Jody R., 4,637,469, Cl. 166-310.000.
McGoldrick, Gilbert A.; and Slicer, Allan E., to Square D Company. Electrical distribution system having an improved plug-in assembly for current tap-off. 4,714,431, 12-22-87, Cl. 439-212.000.
McGoldrick, Gilbert A. *See*—
Jorgensen, George N.; McGoldrick, Gilbert A.; and Slicer, Allan E., 4,673,229, Cl. 439-207.000.
McGonigal, Charles, to AT&T Technologies, Inc. Methods of and apparatus for making slotted beam contact elements. 4,638,559, 1-27-87, Cl. 29-874.000.
McGookin, Hugh R., to Berwind Corporation. Suspended-cable apparatus for measuring a preselected condition of material in a vessel. 4,676,099, 6-30-87, Cl. 73-290.00B.
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McGourty, Thomas K.; and McGourty, Lawrence F., 4,683,820, Cl. 101-93.360.
McGourty, Thomas K., and McGourty, Lawrence F., to Varitronic Systems, Inc. Printing mechanism. 4,683,820, 8-4-87, Cl. 101-93.360.
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Tom, Edward; and McGovern, Douglas E., 4,706,069, Cl. 340-541.000.
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McGovern, Lorayne. Gurney extension. 4,700,417, 10-20-87, Cl. 5-81.00R.
McGovern, Lore H.; and Moore, Alix A., to Aplex Corporation. Feminine urinary device. 4,681,573, 7-21-87, Cl. 604-329.000.
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McGovern, Terrence P.; Schreck, Carl E.; and Burden, George S., to United States of America, Agriculture. Cockroach repellents. 4,675,342, 6-23-87, Cl. 514-613.000.
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McGowan, George A.; and MacCulloch, David B., to Hughes Aircraft Company. Vibration isolation module for sonar towed arrays. 4,660,183, 4-21-87, Cl. 367-15.000.
McGowan, Joseph L., to Marley Cooling Tower Company. The Lightweight tower crane boom for conveying pumped concrete. 4,712,697, 12-15-87, Cl. 212-189.000.
McGowan, Michael J., to RCA Corporation. IGFET comparator circuit having greater control of intended offset voltage. 4,658,157, 4-14-87, Cl. 307-355.000.
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McGregor, Steven R., to Cedar Valley Products, Inc. Spring mounted spray boom structure. 4,646,972, 3-3-87, Cl. 239-168.000.
McGregor, Walter; and Bendel, Lee, to Ethicon, Inc. Sterile surgical needles with a hard sharp cutting edge and method for producing the same. 4,660,559, 4-28-87, Cl. 128-339.000.
McGregor, William H.; and Chang, Joseph Y., to American Home Products Corporation. 2-[1,3,2-dioxaphospholan-2-yloxy]ethyl compounds. 4,710,580, 12-1-87, Cl. 558-86.000.
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McNally, Paul F.; Allen, Spencer W.; and Cimbala, Matthew G., to International Cybernetic Corporation. Sampled data servo control system with field orientation. 4,701,839, 10-20-87, Cl. 364-167.000.
McNally, Paul F., to International Cybernetics Corporation. Phase analog encoding system with compensation. 4,712,106, 12-8-87, Cl. 340-870.320.
McNally, Thomas C. Parafoil vertical lift mechanism. 4,634,080, 1-6-87, Cl. 244-13.000.
McNamara, Dennis J.; and Cook, Phillip D., to Warner-Lambert Company. 4-amino-3-halo-2-pyridinone nucleoside and nucleotide compounds. 4,681,873, 7-21-87, Cl. 514-50.000.
McNamara, James M.; *See*—
Verhoeven, Thomas R.; McNamara, James M.; and Sletzinger, Meyer, 4,645,854, Cl. 560-60.000.
McNamara, James R.; and Piazza, Denis L. Vehicle construction. 4,640,544, 2-3-87, Cl. 296-181.000.
McNamara, Paul E.; *See*—
Jenkins, John K.; Chiu, John S.; Eckhart, Charles G.; McNamara, Paul E.; Rosenhouse, Stanley; and Youngstrom, Richard E., 4,634,556, Cl. 540-310.000.
McNamara, Thomas F.; Ramamurthy, Nungavaram S.; and Golub, Lorne M., to Research Foundation of State University of New York, The. Non-antibacterial tetracycline compositions possessing anti-collagenolytic properties and methods of preparing and using same. 4,704,383, 11-3-87, Cl. 514-152.000.
McNamara, Thomas F.; and Confessore, Fred, to State University of New York. Test apparatus for determining a metabolic characteristic of microorganisms. 4,711,851, 12-8-87, Cl. 435-287.000.
McNamara, Thomas F.; *See*—
Golub, Lorne M.; McNamara, Thomas F.; and Ramamurthy, N. S., 4,566,897, Cl. 514-152.000.
McNeal, Joseph R.; and Robrahn, David, to Scott USA. Face mask having an air duct connectable to a goggle. 4,653,124, 3-31-87, Cl. 2-427.000.
McNeal, Joseph R., to Scott USA Limited Partnership. Anti-fog goggle with foam frame. 4,707,863, 11-24-87, Cl. 2-436.000.
McNeal, Norman E.; Nagy, Richard A.; and Norell, Ronald A., to Burroughs Corporation. Epoxy-glass integrated circuit package having bonding pads in a stepped cavity. 4,643,935, 2-17-87, Cl. 428-157.000.
McNeal, Norman E.; and Nagy, Richard A., to UNISYS Corporation. Thermoplastic plug method of fabricating an integrated circuit package having bonding pads in a stepped cavity. 4,680,075, 7-14-87, Cl. 156-289.000.
McNeel, William O.; Montieth, Royel F.; and Scott, Stephen E., to Litton Resources Systems, Inc. Multiple-contact connector assembly. 4,682,831, 7-28-87, Cl. 439-294.000.
McNeel, William O.; *See*—
Thigpen, Ben B.; Crump, E. Eugene; Johnston, Otis A.; McPeek, Nathaniel K.; and McNeel, William O., 4,637,000, Cl. 367-172.000.
McNeely, David L.; and Fling, Russell T., to RCA Corporation. Adaptive luminance-chrominance separation apparatus. 4,636,840, 1-13-87, Cl. 358-31.000.
McNeely, David L., to RCA Corporation. Circuitry for calculating magnitude of vector sum from its orthogonal components in digital television receiver. 4,692,889, 9-8-87, Cl. 364-730.000.
McNeely, Fay C. Place marker. 4,688,510, 8-25-87, Cl. 116-237.000.
McNeely, Michael D., to Anderson, Greenwood & Company. Testing device for pilot valves. 4,682,495, 7-28-87, Cl. 73-168.000.
McNeely, Michael D.; and Powell, Walter W., to Anderson, Greenwood & Company. Safety relief system for control or vent valves. 4,705,065, 11-10-87, Cl. 137-484.600.
McNeil, Charles B.; and McEvoy, Thomas J. Wearable, variable force suction/collection device. 4,710,165, 12-1-87, Cl. 604-67.000.
McNeil Corporation; *See*—
Cook, John F., 4,642,614, Cl. 340-608.000.
McNeil, Gary L., to Roto-Finish Company, Inc. Method of producing a finishing chamber for a vibratory finishing machine. 4,656,718, 4-14-87, Cl. 29-455.00R.
McNeil, Gary L., to Roto-Finish Company, Inc. Vibratory finishing chamber. 4,676,027, 6-30-87, Cl. 51-7.000.
McNeil, Gary L., to Roto-Finish Company, Inc. Multistage finishing device and method. 4,693,037, 9-15-87, Cl. 51-163.200.
McNeil, Gloria; *See*—
Leevy, Carroll M.; McNeil, Gloria; and Habba, Saad, 4,675,284, Cl. 435-6.000.

McNeil, James E., to General Motors Corporation. Plastic covered fastening device and method of assembly. 4,638,544, 1-27-87, Cl. 29-434.000.
McNeil, John R. Optical scatterometer having improved sensitivity and bandwidth. 4,710,642, 12-1-87, Cl. 250-571.000.
McNeil, Kevin B., to Procter & Gamble Company, The. Adjustable sheet length/adjustable sheet count paper rewinder. 4,687,153, 8-18-87, Cl. 242-56.800.
McNeil, Michael, to DMA Systems Corporation. Apparatus for loading and unloading a magnetic head assembly on a magnetic recording surface. 4,663,682, 5-5-87, Cl. 360-105.000.
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Badolato, Anthony; and Prince, Melissa A., 4,668,394, Cl. 210-314.000.
Carmosin, Richard J.; and Carson, John R., 4,683,239, Cl. 514-299.000.
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Carmosin, Richard J.; and Carson, John R., 4,716,172, Cl. 514-306.000.
Carson, John R., 4,652,584, Cl. 514-524.000.
Carson, John R., 4,661,635, Cl. 564-374.000.
Carson, John R., 4,663,334, Cl. 514-357.000.
Carson, John R., 4,692,460, Cl. 514-443.000.
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Epps, Joyce E.; Ng, Kung-Tat; Tuman, Robert W.; and Wu, Wu-Nan, 4,716,163, Cl. 514-237.000.
Gibbs, Irwin S.; and Kotwal, Pramod M., 4,665,098, Cl. 514-613.000.
Goss, Jack, 4,705,498, Cl. 604-6.000.
Ho, Chih Y., 4,678,784, Cl. 514-219.000.
Maryanoff, Bruce E., 4,649,204, Cl. 548-541.000.
Maryanoff, Bruce E., 4,713,386, Cl. 514-294.000.
Maryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., 4,656,270, Cl. 544-148.000.
Maryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., 4,656,291, Cl. 548-351.000.
Maryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., 4,693,850, Cl. 260-506.000.
Rasmussen, Chris R.; and Villani, Frank J., Jr., 4,657,922, Cl. 514-390.000.
Troutner, Vernon H., 4,643,710, Cl. 494-60.000.
Troutner, Vernon H., 4,681,568, Cl. 604-250.000.
Troutner, Vernon H., 4,687,464, Cl. 604-4.000.
Troutner, Vernon H.; and King, Martin J., 4,692,138, Cl. 604-4.000.
Troutner, Vernon H.; and King, Martin J., 4,708,715, Cl. 604-6.000.
Wright, David E., 4,665,157, Cl. 530-328.000.
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McNeill, Samuel J., to Schwend, Fred N., a part interest. Restraining device for shopping cart or the like. 4,653,764, 3-31-87, Cl. 280-33.99C.
McNeilly, Alan: *See*—
Howie, Peter W.; and McNeilly, Alan, 4,639,439, Cl. 514-171.000.
McNeilus, Garwin B.: *See*—
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McNeilus Truck and Manufacturing, Inc.: *See*—
Christenson, Ronald E., 4,684,142, Cl. 280-81.00R.
Christenson, Ronald E.; and McNeilus, Garwin B., 4,705,133, Cl. 180-209.000.
McNeish, Allister: *See*—
Harris, Jeffery J.; and McNeish, Allister, 4,645,309, Cl. 350-358.000.
McNeish, Kenneth; and McNeish, Marilyn. Catheter retaining means and method. 4,666,432, 5-19-87, Cl. 604-174.000.
McNeish, Marilyn: *See*—
McNeish, Kenneth; and McNeish, Marilyn, 4,666,432, Cl. 604-174.000.
McNelis, Robert L.: *See*—
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McNennamy, John A.; and Nafziger, Steven, to Charbonneau & Godfrey Associates. Motor operated valve analysis and testing system. 4,690,003, 9-1-87, Cl. 73-862.320.
McNennamy, John A.; Nafziger, Steven; Charbonneau, Arthur G.; and Godfrey, Dwaine A., to Charbonneau and Godfrey Associates. Motor operated valve analysis and testing system. 4,693,113, 9-15-87, Cl. 73-168.000.
McNennamy, John A.: *See*—
Charbonneau, Arthur G.; Godfrey, Dwaine A.; McNennamy, John A.; and Nafziger, Steven, 4,712,071, Cl. 324-415.000.
McNerney, Michael: *See*—
Galgana, Russell J.; Sutin, Gordon L.; McNerney, Michael; and Mahoney, Patrick F., 4,669,397, Cl. 110-259.000.
McNiece, Raymond J.: *See*—
Minear, John W.; and McNiece, Raymond J., 4,673,033, Cl. 166-55.100.
McNiff, Timothy K.: *See*—
Barri, Sami A. I.; and McNiff, Timothy K., 4,654,316, Cl. 502-61.000.
Barri, Sami A. I.; and McNiff, Timothy K., 4,654,454, Cl. 585-415.000.
Hyde, Edward A.; and McNiff, Timothy K., 4,642,403, Cl. 585-415.000.
McNulty, James E.; and Neal, Robert A., to Neal, Robert A.; and Ray, Robert. Transparent article. 4,658,958, 4-21-87, Cl. 206-328.000.
McNulty, Robert F., Jr.: *See*—
Forti, Steven A.; and McNulty, Robert F., Jr., 4,706,070, Cl. 340-568.000.
McNutt, Adrian C.: *See*—
Earhart, Jonathan P.; Kostecki, John A.; and McNutt, Adrian C., 4,713,119, Cl. 134-3.000.
McNutt, Robert L.: *See*—
Dawson, Ian J.; and McNutt, Robert L., 4,706,772, Cl. 180-167.000.
McPeek, Nathaniel K.: *See*—
Thigpen, Ben B.; Crump, E. Eugene; Johnston, Otis A.; McPeek, Nathaniel K.; and McNeel, William O., 4,637,000, Cl. 367-172.000.
McPhail, Andrew T.: *See*—
Spielvogel, Bernard F.; McPhail, Andrew T.; and Hall, Iris H., 4,647,555, Cl. 514-63.000.
McPhaul, Charlotte W. Fishing tackle box with flashlight and internal lighting. 4,697,379, 10-6-87, Cl. 43-54.100.
McPhee, Charles J. Wallet and method of making same. 4,671,332, 6-9-87, Cl. 150-132.000.
McPhee, Charles J., to Kendall McGaw Laboratories, Inc. Connector. 4,675,020, 6-23-87, Cl. 604-411.000.
McPhee, William A.: *See*—
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Chawla, Manmohan S.; and McPhee, William A., 4,669,384, Cl. 102-307.000.
McPherson, Alexander W.; and Hamed, Hazem N., to De-Sta-Co Division/Dover Corporation. Locking power clamp. 4,637,597, 1-20-87, Cl. 269-32.000.
McPherson, Andrew D., to U.S. Philips Corporation. Apparatus and method for determining true data in a digital data stream from distorted data. 4,686,676, 8-11-87, Cl. 371-36.000.
McPherson, Donald G., to Otis Elevator Company. Automatic elevator load sensor calibration system. 4,674,605, 6-23-87, Cl. 187-131.000.
McPherson, Eugene; and Schein, Philip S., to Georgetown University. Galactose-C-6 nitrogen mustard compounds and their uses. 4,656,159, 4-7-87, Cl. 514-25.000.
McPherson, Hugh; and Stoker, Jeffrey, to Ferranti, plc. Microwave noise measuring apparatus. 4,714,873, 12-22-87, Cl. 324-57.00N.
McPherson, James N., to Smith International, Inc. Diamond bearing and manufacture thereof. 4,708,496, 11-24-87, Cl. 384-303.000.
McPherson, James O.: *See*—
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McPherson, Joe W., to Texas Instruments Incorporated. Thermally matched mounting substrate. 4,650,922, 3-17-87, Cl. 174-52.0FP.
McPherson, Joe W., to Texas Instruments Incorporated. Polycide electrodes for integrated circuits. 4,700,215, 10-13-87, Cl. 357-71.000.
McPherson, Larry D.: *See*—
Guill, Dennis J.; McPherson, Larry D.; and Sizelan, John H., 4,694,267, Cl. 333-248.000.
McPherson, Mathew A. Compound archery bow system. 4,660,536, 4-28-87, Cl. 124-24.00R.
McPherson, Ross; Smolik, Kenneth F.; and Thomson, David J., to American Telephone and Telegraph Company; and Bell Telephone Laboratories, Incorporated. Supervisory audio tone detection in a radio channel. 4,698,769, 10-6-87, Cl. 364-724.000.
McPherson, Thomas R., to Network Equipment Technologies. System for transmitting digital information and maintaining a minimum pauise density. 4,712,217, 12-8-87, Cl. 371-55.000.
McPherson's Limited: *See*—
Petroff, Cvetan, 4,669,337, Cl. 76-86.000.
Somerset, John B., 4,711,029, Cl. 30-148.000.
McQuade, Donald E., Sr. Gate locking device. 4,691,541, 9-8-87, Cl. 70-77.000.
McQuain, David B.: *See*—
Buirley, William L.; Koopman, Donald E.; and McQuain, David B., 4,676,617, Cl. 354-76.000.
McQueen, Coy E.; Twedt, Lynn O.; and Thurnau, Edwin H., to Erect-A-Tube, Inc. Building and bi-fold door assembly. 4,637,446, 1-20-87, Cl. 160-207.000.
McQueen, Joe C.: *See*—
Gray, Kenneth W., 4,668,534, Cl. 427-183.000.
McQueen, Phillip J., to Acme Plastics, Inc., a part interest. Impact and vibration attenuating pad with offset dimples. 4,648,554, 3-10-87, Cl. 238-283.000.
McQueen, Robert. Crawling insect trap. 4,709,503, 12-1-87, Cl. 43-114.000.
McQueen, Sidney J., to Continental Technology Corporation; and Goodman, Gerald. Adjustable firearm stabilizer. 4,635,528, 1-13-87, Cl. 89-14.300.
McQueeney, James F.: *See*—
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McQueston, James C.: *See*—
Pavlick, Michael J.; McQueston, James C.; Eggert, Walter S., Jr.; and Sherrow, Lionel, 4,715,292, Cl. 105-456.000.
McQuillan, Barry W.; and Norman, John H., to GA Technologies Inc. Water-splitting cycle with graphite intercalation compounds. 4,663,144, 5-5-87, Cl. 423.648.00R.

McQuinn, Roy L.; and Wade, James J., to Riker Laboratories, Inc. Metabolites of triazolo[1,5-c]pyrimidines. 4,639,445, 1-27-87, Cl. 514-222.000.

McQuoid, J. Allister, to Pilkington P.E. Limited. Optical filtering apparatus. 4,669,811, 6-2-87, Cl. 350-3.700.

McQuoid, James A.; and Duncan, Stuart S., to Pilkington P.E. Limited. Optical filters and multiplexing-demultiplexing devices using the same. 4,671,603, 6-9-87, Cl. 350-3.700.

McRae, Daniel D.; and Cain, Joseph B., III, to Harris Corporation. HF avalanche relay communication technique. 4,639,937, 1-27-87, Cl. 375-40.000.

McRae, Wayne A.: *See*—
Mandle, Robert J.; and McRae, Wayne A., 4,678,553, Cl. 204-182.600.

McReynolds, Kent B.: *See*—
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McRoberts, Louis A.; and Felix, Arthur, Jr., to Motorola, Inc. Apparatus for providing constant azimuth cells in an airborne radar. 4,694,300, 9-15-87, Cl. 342-195.000.

McShane, James E., to Plough, Inc. Dyed eggs. 4,664,925, 5-12-87, Cl. 426-250.000.

McShane, Lawrence J., to Eli Lilly and Company. Method for plant growth regulation. 4,704,156, 11-3-87, Cl. 71-88.000.

McShane, Michael B., to Motorola, Inc. Low cost integrated circuit bonding process. 4,661,192, 4-28-87, Cl. 156-292.000.

McSherry, Charles K.: *See*—
Mosbach, Erwin H.; McSherry, Charles K.; and Kuroki, Syoji, 4,648,995, Cl. 260-397.100.

McSherry, Thomas W.; and Garfield, Nathaniel H., to Mechanical Plastics Corp. Fully articulable positioning device. 4,650,386, 3-17-87, Cl. 411-340.000.

McSherry, Thomas W.; and Garfield, Nathaniel H., to Mechanical Plastics Corp. Plastic fasteners. 4,673,150, 6-16-87, Cl. 248-73.000.

McSherry, Thomas W., to Mechanical Plastics Corp. Fastening element. 4,704,057, 11-3-87, Cl. 411-55.000.

McSparran, Joseph F.; Blackman, William; Weaver, Harry Z.; and O'Neill, Jere W., to RCA Corporation. RF signal shielding enclosure of electronic systems. 4,658,334, 4-14-87, Cl. 361-415.000.

McStravick, David M.; Chenoweth, David V.; and Anderson, David M., to Baker Oil Tools, Inc. Method of testing and reconditioning insulating tubular conduits. 4,673,652, 6-16-87, Cl. 436-2.000.

McSweeney, Daniel R., to General Foods Corporation. Method for increasing the rate of solubility of fumaric acid and compositions. 4,707,366, 11-17-87, Cl. 426-96.000.

McSweeney, Hugh A. Vehicle recording system. 4,713,648, 12-15-87, Cl. 340-52.00D.

McSweeney, Larry J.: *See*—
McSweeney, Lawrence H.; and McSweeney, Larry J., 4,702,328, Cl. 175-320.000.

McSweeney, Lawrence H.; and McSweeney, Larry J. Roof drilling system. 4,702,328, 10-27-87, Cl. 175-320.000.

McTyre, Scott B. Attachment for a display position indicator. 4,635,496, 1-13-87, Cl. 74-471.0XY.

McVay, David M.: *See*—
Allen, James D.; and McVay, David M., 4,706,032, Cl. 328-1.000.

McVay, James D.: *See*—
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McVay, Robert L.; Emo, Cathy V.; and Rush, Virginia F., to BASF-Inmont Division. Clear aqueous interior enamels. 4,666,982, 5-19-87, Cl. 525-109.000.

McVeigh, Harry A.: *See*—
Green, Gary J.; McVeigh, Harry A.; Penick, Joe E.; and Yan, Tsoung Y., 4,640,675, Cl. 431-2.000.
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McVeigh, James B., Jr.; Reise, Terrence F.; and Taylor, Alwyn H., to Duracell Inc. Spirally wound electrochemical cells. 4,707,421, 11-17-87, Cl. 429-94.000.

McVey, Charles L.: *See*—
Scott, Curtis E.; and McVey, Charles L., 4,690,727, Cl. 156-635.000.

McVey, George R.; Tornberg, Kenneth W.; Widell, Larry R.; and Wood, George E., to O. M. Scott & Sons Company, The. Combination fertilizer composition. 4,704,160, 11-3-87, Cl. 71-92.000.

McVey, Kenneth. Receiving and lifting device for ground or floor objects. 4,715,632, 12-29-87, Cl. 294-19.100.

McWade, Duncan R. Air flow controller and preheater for internal combustion engines. 4,665,880, 5-19-87, Cl. 123-556.000.

McWaters, James G. Hydrotherapy vest. 4,689,030, 8-25-87, Cl. 441-88.000.

McWethy, Kevin A.: *See*—
Grinn, James M.; and McWethy, Kevin A., 4,675,808, Cl. 364-200.000.

McWhirter, John G., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Constraint application processor for applying a constraint to a set of signals. 4,688,187, 8-18-87, Cl. 364-825.000.

McWhirter, John G.: *See*—
McCanny, John V.; and McWhirter, John G., 4,639,857, Cl. 364-200.000.
McCanny, John V.; McWhirter, John G.; and Wood, Kenneth W., 4,686,645, Cl. 364-754.000.
McCanny, John V.; McWhirter, John G.; and Wood, Kenneth W., 4,701,876, Cl. 364-728.000.

McWhirter, Vernie C.: *See*—
Ward, Richard M.; and McWhirter, Vernie C., 4,674,328, Cl. 73-151.000.

McWilliams, Joseph A., to Micropore International Limited. Thermal cut-out device for radiant heaters. 4,665,307, 5-12-87, Cl. 219-449.000.

McWilliams, Judy A.; and Nielsen, Margaret J. Retrieval tool for semi-obscured articles. 4,653,789, 3-31-87, Cl. 294-1.100.

McWilliams, Orcenith D.: *See*—
Latimer, Eugene E.; and McWilliams, Orcenith D., 4,667,930, Cl. 251-324.000.

MD Associates: *See*—
Darras, Robert L., 4,678,568, Cl. 424-94.100.

MD Engineering: *See*—
Hatfield, Gregory A.; and Lash, Robert E., 4,683,884, Cl. 128-303.140.

MDC Max Datwyler Bleienbach AG: *See*—
Datwyler, Max, 4,693,792, Cl. 204-25.000.

MDC Vacuum Products Corporation: *See*—
Contin, Jose L., 4,681,329, Cl. 277-167.500.

MDS Health Group Limited: *See*—
Douglas, Donald J., 4,682,026, Cl. 250-288.000.

Mead, Albert R., to Grumman Aerospace Corporation. Method for forming corrugated materials using memory metal cores. 4,675,061, 6-23-87, Cl. 156-155.000.

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Mead, Carver A.; and Wawrzynek, John C., to California Institute of Technology. CMOS logic circuit. 4,716,312, 12-29-87, Cl. 307-475.000.

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Adair, Paul C.; and McLain, Michael K., 4,663,266, Cl. 430-138.000.
Adair, Paul C.; Hillenbrand, Gary F.; and Davis, Paul D., 4,713,312, Cl. 430-138.000.
Baugus, Gary; and Oliff, James R., 4,706,814, Cl. 206-427.000.
Chaussadas, Jean, 4,703,856, Cl. 206-429.000.
Culpepper, Will L., 4,642,967, Cl. 53-398.000.
Doerr, Erwin; and Wood, Prentice J., 4,681,252, Cl. 229-52.00B.
Feliks, James J.; and Culpepper, Will L., 4,674,935, Cl. 414-128.000.
Feliks, James J.; Culpepper, Will L.; and Scott, Dale K., 4,705,159, Cl. 198-468.800.
Fershko, Jane S.; and Lackey, Robert W., 4,690,287, Cl. 211-49.100.
Ganz, Robert H., 4,663,914, Cl. 53-398.000.
Halsell, H. Lee, 4,706,809, Cl. 206-319.000.
Head, Donald L., 4,636,807, Cl. 346-1.100.
Heijnen, Johannes A., 4,682,975, Cl. 493-123.000.
Holycross, Mark; Saccocio, Edward J.; and Proehl, Scott, 4,648,699, Cl. 354-297.000.
Johnson, Roy A.; and Ganz, Robert H., 4,691,606, Cl. 83-175.000.
Joiner, Charles W.; and Shackle, Dale R., 4,672,014, Cl. 430-20.000.
Oliff, James R., 4,679,726, Cl. 229-138.000.
Oliff, James R., 4,703,847, Cl. 206-140.000.
Pokora, Alexander R.; and Cyrus, William L., Jr., 4,647,952, Cl. 346-210.000.
Powlenko, Edward J., 4,702,408, Cl. 229-101.000.
Robertson, James D., 4,633,788, Cl. 108-108.000.
Rourke, John K.; and O'Connor, Joseph G., 4,701,397, Cl. 430-138.000.
Saccocio, Edward J.; Kiser, T. Kay; Wright, Richard F.; and Head, Donald L., 4,675,269, Cl. 430-138.000.
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Spamer, William S.; and Leverette, David S., 4,706,820, Cl. 211-59.200.
Stoddard, David C. F., 4,669,208, Cl. 40-5.000.
Wood, Prentice J., 4,633,643, Cl. 53-248.000.
Wood, Prentice J.; and Doerr, Erwin, 4,653,686, Cl. 229-52.00B.
Wright, Richard F.; Adair, Paul C.; and Sanders, Frederick W., 4,687,725, Cl. 430-138.000.

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Mead, James B.; Bevan, Robert; and Schwartz, Leonard, to Singer Company, The. Circularly polarized leaky waveguide doppler antenna. 4,698,639, 10-6-87, Cl. 343-756.000.

Mead, John A.: *See*—
Greene, Orville T., Jr.; and Mead, John A., 4,715,696, Cl. 350-500.000.

Mead Johnson & Company: *See*—
Temple, Davis L., Jr., 4,642,345, Cl. 544-251.000.

Mead Packaging Corporation, The: *See*—
Ganz, Robert H., 4,633,647, Cl. 53-398.000.
Ganz, Robert H., 4,689,934, Cl. 53-398.000.

Meade, Dan G. Hub cover interacting with reel of magnetic tape for forming document storage compartment. 4,702,373, 10-27-87, Cl. 206-389.000.

Meade, John: *See*—
Broersz, Gerrit, 4,682,558, Cl. 114-222.000.

Meade, Peter J.: *See*—
Crossley, Roger; and Meade, Peter J., 4,666,900, Cl. 514-211.000.

Meade, Reginald E., to Dairyman's Cooperative Creamery Assoc. Spray drying apparatus and method. 4,657,767, 4-14-87, Cl. 426-471.000.

Meade, Ronald G., to Hills Industries Limited. Hoist elevating means. 4,649,764, 3-17-87, Cl. 74-89.150.

Meade, Steven L.: *See*—
Morris, Merle E.; Rice, Lawrence M.; and Meade, Steven L., 4,710,676, Cl. 313-579.000.

Meaden, Dan F., to International Computers Limited. Many-to-one mapping hash address generator. 4,642,793, 2-10-87, Cl. 364-900.000.

Meader, Arthur L., Jr., to Chevron Research Company. Coated concrete surface and process for coating. 4,689,268, 8-25-87, Cl. 428-413.000.

Meador, A. Leon; and Weber, Daniel B. Nail guiding and driving tool. 4,676,424, 6-30-87, Cl. 227-147.000.

Meador, James W.: *See*—
Kraft, Thomas L.; and Meador, James W., 4,689,303, Cl. 435-290.000.

Meadowbrook Industries, Inc.: *See*—
Poor, David D. S., 4,708,503, Cl. 400-531.000.

Meadows, Bernard A. Method and apparatus for effecting an opening in a well casing. 4,705,112, 11-10-87, Cl. 166-285.000.

Meadows, Clarence A.: *See*—
Bish, James R.; McCartney, Charles P., Jr.; and Meadows, Clarence A., 4,683,180, Cl. 429-130.000.

Meadows, John W.: *See*—
Carlisle, Brian R.; Witham, Carl R.; Allan, Donald R.; and Meadows, John W., 4,702,668, Cl. 414-744.00R.

Meadows, Louis B.; and Diamond, Arthur S., to Dactek International, Inc. Compact fingerprinting system. 4,699,077, 10-13-87, Cl. 118-31.500.

Meadows, Michael R.: *See*—
Parkhurst, Larry E.; and Meadows, Michael R., 4,694,159, Cl. 250-227.000.

Meadows, Robert D.; Krein, Philip T.; and Murdock, Bruce, to Tektronix, Inc. Touch panel with automatic frequency control. 4,698,461, 10-6-87, Cl. 178-19.000.

Meadows, Robert D.: *See*—
Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., 4,698,460, Cl. 178-19.000.
Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., 4,707,845, Cl. 178-19.000.

Meadows, Roger D.; Rush, James B.; and Bryan, James S., to Dayco Products, Inc. Branched hose construction, T-connector therefor and methods of making the same. 4,648,628, 3-10-87, Cl. 285-24.000.

Meadows, Roger D.: *See*—
Bryan, James S.; and Meadows, Roger D., 4,679,293, Cl. 29-450.000.
Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearison W., 4,637,638, Cl. 285-158.000.
Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearison W., 4,654,942, Cl. 29-157.00T.

Meadox Surgimed A/S. *See*—
Andersen, Erik; and Leoni, Gianni, 4,706,670, Cl. 128-344.000.

Meagher, Donald J. R., to Key Bank N.A. High-speed image generation of complex solid objects using octree encoding. 4,694,404, 9-15-87, Cl. 364-518.000.

Meakin, Brian J.: *See*—
Davies, David J. G.; Meakin, Brian J.; and Rees, John E., 4,642,234, Cl. 424-78.000.

Meakins, George D.: *See*—
Roe, Anthony M.; Coates, William J.; Slater, Robert A.; Breukelman, Stephen P.; and Meakins, George D., 4,678,786, Cl. 514-247.000.

Meamber, Jon F. Rapid cooking apparatus for egg frying utensil. 4,681,027, 7-21-87, Cl. 99-422.000.

Means, Donald R.; True, Robert C.; and Wickliff, Noble E., to American Telephone and Telegraph Company, AT&T Information Systems, Inc. Voice-switched telephone circuit with center idle state. 4,700,382, 10-13-87, Cl. 379-390.000.

Means, John A., to KMW Corporation. Condensed steam agitator for a dryer cylinder and method. 4,674,196, 6-23-87, Cl. 34-41.000.

Meanwell, Nicholas; and Wright, John J., to Bristol-Myers Company. Imidazoquinoline antithrombrogenic cardiotonic agents. 4,668,686, 5-26-87, Cl. 514-293.000.

Meanwell, Nicholas A.; and Wright, John J., to Bristol-Myers Company. 7-amino-1,3-dihydro-2H-imidazo[4,5-b]quinolin 2-ones and method for inhibiting phosphodiesterase and blood platelet aggregation. 4,701,459, 10-20-87, Cl. 514-293.000.

Meares, Claude F.; DeNardo, Sally J.; Cole, William C.; and Mol, Min K., to University of California, The Regents of the. Macrocyclic bifunctional chelating agents. 4,678,667, 7-7-87, Cl. 424-85.000.

Meares, Claude F.: *See*—
Goodwin, David A.; and Meares, Claude F., 4,634,586, Cl. 424-1.100.

Mears, Christopher J.: *See*—
Riley, Clifford; and Mears, Christopher J., 4,692,308, Cl. 422-65.000.

Mears, Larry E. Support clips for supporting electrical fixtures in a junction box. 4,679,882, 7-14-87, Cl. 439-569.000.

Mears, William G., to Mobil Oil Corporation. Fuel tank vent valve. 4,679,581, 7-14-87, Cl. 137-43.000.

Measuretek, Inc.: *See*—
Harrington, Richard H.; and Barnes, James C., 4,667,861, Cl. 223-113.000.
Harrington, Richard H.; and Krapf, Charles W., 4,712,627, Cl. 177-50.000.

Measurex Corporation: *See*—
Alguard, Mark J., 4,699,510, Cl. 356-73.000.
Aral, Gurcan; and Balakrishnan, Ramesh, 4,680,089, Cl. 162-198.000.
Boissevain, Mathew G., 4,658,716, Cl. 100-38.000.
Boissevain, Mathew G., 4,671,173, Cl. 100-38.000.
Boissevain, Mathew G., 4,685,389, Cl. 100-93.0RP.
Chase, Lee M.; and Sudikoff, David, 4,706,267, Cl. 378-61.000.
Dahlquist, John; Goss, John; and Wennerberg, Gunnar, 4,678,915, Cl. 250-358.100.
De Mol, Dirk; and Shaw, Graham, 4,700,557, Cl. 72-12.000.
Hegland, Philip; and Chase, Lee, 4,692,616, Cl. 250-252.100.
Howarth, John; and Alguard, Mark, 4,715,715, Cl. 356-402.000.
Hu, Hung-Tzaw, 4,707,779, Cl. 364-148.000.
Kendall, Burton, 4,635,189, Cl. 364-200.000.
Kendall, Burton; and King, Thomas, 4,675,803, Cl. 364-131.000.
Moon, William S., 4,646,226, Cl. 364-176.000.
Orkosalo, Jorma J., 4,688,423, Cl. 73-159.000.
Wennerberg, Gunnar, 4,653,396, Cl. 100-38.000.

Measuria, Umakant: *See*—
Cogswell, Frederic N.; and Measuria, Umakant, 4,713,283, Cl. 428-240.000.

Meatto, Franklin D.; and Pilpel, Edward D., to Olin Corporation. Snow ski with elastomeric sidewalls. 4,639,009, 1-27-87, Cl. 280-602.000.

Meatto, Franklin D.; and Pilpel, Edward D., to TriStar Sports Inc. Randomly oriented reinforcing fibers in a snow ski. 4,679,814, 7-14-87, Cl. 280-610.000.

Meatto, Franklin D.; and Pilpel, Edward D., to TriStar Sports, Inc. Asymmetric alpine ski with offset boot platform. 4,688,821, 8-25-87, Cl. 280-609.000.

Meatto, Franklin D.; and Pilpel, Edward D., to TriStar Sports Inc. Asymmetric alpine ski with offset boot platform. 4,700,967, 10-20-87, Cl. 280-609.000.

Meatto, Franklin D., to TriStar Sports Inc. Alpine ski with selective reinforcement. 4,706,985, 11-17-87, Cl. 280-610.000.

Meauze, Geordes: *See*—
Gely, Jean-Marie L.; Goutines, Marius J.; and Meauze, Geordes, 4,712,980, Cl. 416-224.000.

Mec-Mor S.p.A.: *See*—
Brega, Angelo, 4,698,987, Cl. 66-232.000.
Tenconi, Riccardo, 4,646,542, Cl. 66-24.000.

Mecanotron Corporation: *See*—
Alvite', Joseph G., 4,694,231, Cl. 318-568.000.

Mecapec S.A.: *See*—
Fuchs, Ernst; and Fitzi, Karl, 4,639,315, Cl. 210-333.100.
Meili, Ernst; and Rimmele, Karl, 4,694,247, Cl. 324-216.000.

Mecca, John. Arterial regenerator. 4,690,140, 9-1-87, Cl. 128-305.000.

Meccariello, Thomas V.; and Relihan, Gary F., to General Electric Company. Automatic x-ray image brightness control. 4,703,496, 10-27-87, Cl. 378-99.000.

Meccatec S.p.A.: *See*—
Meratti, Gianattilio, 4,639,177, Cl. 412-11.000.

Mech, L. David; Chapman, Richard C.; and Cochran, William W., to University of Minnesota, Regents of the. Drug-injection animal capture collar. 4,652,261, 3-24-87, Cl. 604-130.000.

Mechalas, Emmanuel. Vacuum apparatus for filling bags with particulate material including dust collector and recycling of collected material. 4,648,432, 3-10-87, Cl. 141-68.000.

Mechanical Plastics Corp.: *See*—
McSherry, Thomas W.; and Garfield, Nathaniel H., 4,650,386, Cl. 411-340.000.
McSherry, Thomas W.; and Garfield, Nathaniel H., 4,673,150, Cl. 248-73.000.
McSherry, Thomas W., 4,704,057, Cl. 411-55.000.

Mechanical Products, Inc.: *See*—
Alper, Daniel D.; Bakhaus, Kenneth C.; and Estkowski, Michael H., 4,688,512, Cl. 116-279.000.
Bakhaus, Kenneth C.; and Sdunek, Bruce C., 4,687,164, Cl. 248-27.300.

Mechanical Separations, Inc.: *See*—
Matthews, Robert K., 4,664,581, Cl. 414-330.000.

Mechanical Technology Incorporated: *See*—
Castiglione, Ralph M.; and Hurst, Ralph, 4,642,882, Cl. 29-596.000.
Corey, John A., 4,633,668, Cl. 60-526.000.
Dorman, Richard A.; Kissinger, Curtis D.; Hoogenboom, Leo; Hull-Allen, Gregory; and Fallek, Samuel, 4,674,882, Cl. 356-373.000.
Dorman, Richard A.; and Johnson, Robert E., 4,694,474, Cl. 377-6.000.
Heshmat, Hooshang; and Wilcock, Donald F., 4,671,677, Cl. 384-124.000.
Heshmat, Hooshang, 4,671,679, Cl. 384-133.000.
Hindes, Clyde J., 4,655,036, Cl. 60-521.000.
Hoogenboom, Leo, 4,692,611, Cl. 250-227.000.
Hoogenboom, Leo; and Kissinger, Curtis D., 4,694,160, Cl. 250-227.000.
Hoogenboom, Leo, 4,701,610, Cl. 250-227.000.
Hoogenboom, Leo; Jackson, Robert L., Jr.; Kraft, Russell P.; and Offt, Alan M., 4,710,808, Cl. 358-107.000.
Hull-Allen, Gregory, 4,711,577, Cl. 356-373.000.
Kissinger, Curtis D., 4,701,611, Cl. 250-227.000.
Lundholm, Gunnar, 4,645,212, Cl. 277-3.000.
Vincent, Ronald J., 4,694,650, Cl. 60-520.000.

Mechanical Transplanter: *See*—
Kolk, Howard A.; and Kolk, Robert D., 4,658,538, Cl. 47-1.00R.

Mechlenburg, Douglas M., to American Sterilizer Company. Phase controlled regulator. 4,689,548, 8-25-87, Cl. 323-243.000.
Mechoulam, Raphael; and Feigenbaum, Jeffery J. Analgetic and antiemetic compositions. 4,707,559, 11-17-87, Cl. 568-644.000.
Mechtold, Helmut; and Weber, Robert, to Kraftwerk Union Aktiengesellschaft. Flaring device for pipe ends. 4,667,500, 5-26-87, Cl. 72-393.000.
Mechtold, Helmut: *See*—
Weber, Robert, Bieselt, Roland; Forner, Siegfried; and Mechtold, Helmut, 4,689,863, Cl. 29-33.00T.
Mechtrix Corporation: *See*—
Butler, John D., 4,702,136, Cl. 83-694.000.
Mecilec S.A.: *See*—
Berger, Jean-Claude, 4,645,331, Cl. 355-25.000.
Mecke, Norbert; Krauter, Heinrich; and Kuchenreuther, Wieland, to Pelikan Aktiengesellschaft. Process for manufacturing thermocolor ribbon. 4,675,063, 6-23-87, Cl. 156-234.000.
Meckel, Walter: *See*—
Balle, Gerhard; Grogler, Gerhard; and Meckel, Walter, 4,704,447, Cl. 528-84.000.
Gerum, Johannes; Nippe, Burkhard; and Meckel, Walter, 4,677,030, Cl. 428-425.900.
Henning, Wolfgang; Meckel, Walter; Beck, Ulrich; Baumgen, Heinz; and Konig, Joachim, 4,670,100, Cl. 162-135.000.
Meckl, Heinz; Kampfer, Helmut; and Haseler, Helmut, to Agfa-Gevaert Aktiengesellschaft. Photographic recording material and process for the production of photographic images. 4,636,460, 1-13-87, Cl. 430-442.000.
Meckl, Heinz: *See*—
Reuter, Karl-Heinz; and Meckl, Heinz, 4,687,577, Cl. 210-288.000.
Spriewald, Erika; Eder, Wilhelm; and Meckl, Heinz, 4,664,799, Cl. 210-288.000.
Wernicke, Ubbo; Meckl, Heinz; Donner, Hans-Gunter; and Frosch, Jurgen, 4,680,123, Cl. 210-683.000.
Mecklenborg, Richard A., to Singer Company, The. Visual system with filter for a simulator. 4,657,512, 4-14-87, Cl. 434-44.000.
Mecklenfeld, Hermann: *See*—
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Meckler, Gershon, to Camp Dresser & McKee. Dehumidification apparatus. 4,635,446, 1-13-87, Cl. 62-271.000.
Meckler, Gershon, to Camp Dresser & McKee. Mixing box. 4,657,178, 4-14-87, Cl. 236-13.000.
Meckler, Gershon. Air bar assembly. 4,703,685, 11-3-87, Cl. 98-38.300.
Meckler, Milton. Cogeneration and central regeneration multi-contactor air conditioning system. 4,691,530, 9-8-87, Cl. 62-238.100.
Meckley, Charles O. Automatic attitude adjuster for kite. 4,640,476, 2-3-87, Cl. 244-155.00R.
Meckstroth, Alan F.: *See*—
Westfall, Wade H.; Wheaton, Roy; and Meckstroth, Alan F., 4,660,116, Cl. 360-132.000.
Meco Corporation: *See*—
Bales, Emmett R.; and Huff, George L., 4,683,866, Cl. 126-25.00B.
Huff, George L.; and Bales, Emmett R., 4,663,517, Cl. 219-404.000.
Medizin medizinische Produkte GmbH: *See*—
Ahrens, Uwe, 4,705,520, Cl. 623-23.000.
Anaphotis, Emmanuel; and Kranz, Curt, 4,676,797, Cl. 623-18.000.
Brinckmann, Paul; and Anaphotis, Emmanuel, 4,687,486, Cl. 623-16.000.
Ecke, Hermann, 4,657,551, Cl. 623-23.000.
Mect Corporation: *See*—
Ogasawara, Sadanori; Hanafusa, Takashi; Kariya, Katsuhide; Ito, Masayoshi; and Shitori, Yoshiyasu, 4,698,332, Cl. 514-42.000.
Ogura, Haruo; Furuhata, Kimio; Osawa, Toshiaki; Toyoshima, Satoshi; Shitori, Yoshiyasu; Ito, Masayoshi; and Yoshimura, Shoji, 4,691,012, Cl. 536-23.000.
Yamato, Masatoshi, 4,656,192, Cl. 514-564.000.
Meczkowski, Frank J.; and Triani, Ronald J., to General Foods Corporation. Bulk handling of raisins. 4,696,824, 9-29-87, Cl. 426-102.000.
Meczkowski, Frank J.: *See*—
Triani, Ronald J.; and Meczkowski, Frank J., 4,661,362, Cl. 426-289.000.
Meczkowski, Leonard C.: *See*—
Bronstad, Maurice E.; Hatton, James H., Jr.; and Meczkowski, Leonard C., 4,678,166, Cl. 256-13.100.
Med-Con of Georgia, Inc.: *See*—
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MED-Inventio AG: *See*—
Frimberger, Eckart, 4,649,916, Cl. 128-303.00R.
Med-Safe Systems, Inc.: *See*—
Shillington, Richard A., 4,667,821, Cl. 206-366.000.
Shillington, Richard A.; and Oberschmidt, Alec, 4,702,385, Cl. 220-18.000.
Med-Tech Associates: *See*—
Jones, J. Paul, 4,638,193, Cl. 310-15.000.
Med-Tech Products, Inc.: *See*—
Buirley, William L.; Koopman, Donald E.; and McQuain, David B., 4,676,617, Cl. 354-76.000.
Med-Vest Inc.: *See*—
Ingrisano, Louis A.; Moon, Stephen H.; and English, Lawrence J., 4,637,075, Cl. 2-94.000.
Medasonics Inc.: *See*—
Ingle, Frank W.; and Claude, John P., 4,691,418, Cl. 29-25.350.
Medaugh, Raymond S.: *See*—
Belfield, William R.; and Medaugh, Raymond S., 4,654,863, Cl. 375-27.000.
Medbury, Seward J. Image acquisition system and modular desk utilized therein. 4,652,100, 3-24-87, Cl. 352-104.000.
Medcalf, Darrell G.: *See*—
Slade, Louise; Oltzik, Rhoda; Altomare, Robert E.; and Medcalf, Darrell G., 4,657,770, Cl. 426-549.000.
Meddaugh, Michael D.: *See*—
Gavin, John D., Jr.; and Meddaugh, Michael D., 4,678,376, Cl. 405-270.000.
Klosowski, Jerome M.; Meddaugh, Michael D.; Sykes, Paul B.; and Wright, Antony P., 4,657,967, Cl. 524-860.000.
Meddings, Basil, to Sherritt Gordon Mines Limited. Quadrupole mass spectrometers. 4,709,148, 11-24-87, Cl. 250-292.000.
Meddles, Dennis, to International Rectifier Corporation. Molding process for semiconductor devices and lead frame structure therefor. 4,641,418, 2-10-87, Cl. 29-588.000.
Meddles, Dennis, to International Rectifier Corporation. Four-leaded dual in-line package module for semiconductor devices. 4,642,419, 2-10-87, Cl. 174-52.0FP.
Medeco Security Locks, Inc.: *See*—
Oliver, Ronald N.; and Roop, Stevie C., 4,688,409, Cl. 70-417.000.
Oliver, Roy N., 4,635,455, Cl. 70-364.00A.
Medem, Harald: *See*—
Stammann, Gunter; Kriesfalussy, Zoltan; Waldmann, Helmut; Schneider, Joachim; and Medem, Harald, 4,714,689, Cl. 502-54.000.
Medendorp, LeRoy E.: *See*—
Chiesa, Alan F.; Medendorp, LeRoy E.; Perry, Edward C.; and Schweikert, John F., 4,671,107, Cl. 73-118.200.
Medendorp, Richard L. Locking device for multiple pivotable members. 4,702,507, 10-27-87, Cl. 294-66.100.
Medeot, Renzo, to FIP Industriale S.p.A. Water jet scarifying apparatus. 4,637,656, 1-20-87, Cl. 299-1.000.
Medero, Richard: *See*—
Ramsey, Maynard, III; Medero, Richard; and Hood, Rush W., Jr., 4,638,810, Cl. 128-681.000.
Medgyesy, Stephen, to Sulzer Brothers Limited. Turbomachine housing. 4,701,103, 10-20-87, Cl. 415-219.00C.
Medhurst, James A.: *See*—
Goudy, Paul R., Jr.; Medhurst, James A.; and Dresselhuys, Donn R., 4,688,699, Cl. 222-56.000.
Medi-Pharma Vertriebsgesellschaft mbH: *See*—
Roy, Asok K.; and Steinbach, Roland W., 4,666,833, Cl. 435-26.000.
Medi-Tech, Inc.: *See*—
Ciannella, Michael A., 4,698,056, Cl. 604-164.000.
Lanciano, Andrew P., 4,643,720, Cl. 604-95.000.
Mueller, Peter R.; Brown, Alan S.; Tolkoff, Marc J.; and Crawford, Frank B., 4,705,040, Cl. 128-334.00R.
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Media Systems Technology, Inc.: *See*—
Anderson, Wayne H.; Larson, David E.; and Reinhart, Mark R., 4,707,750, Cl. 360-60.000.
Norton, James A.; and Murray, Brent W., 4,661,870, Cl. 360-98.000.
Scribner, Richard A.; and Norton, James A., 4,688,124, Cl. 360-99.000.
Mediavilla, Eugenio. Hole saw mandrel. 4,669,928, 6-2-87, Cl. 408-68.000.
Medica Corporation: *See*—
Kaltenbach, Karl W.; Rettew, Stephen; Rudy, John O.; and Szakacs, Gabor L., 4,649,028, Cl. 422-100.000.
Kaltenbach, Karl W.; Rettew, Stephen; Rudy, John O.; and Szakacs, Gabor L., 4,705,668, Cl. 422-82.000.
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Manning, Maurice; and Sawyer, Wilbur H., 4,714,696, Cl. 514-11.000.
Saffran, Murray; and Neckers, Douglas C., 4,663,308, Cl. 514-3.000.
Medical College of Wisconsin Research Foundation, Inc., The: *See*—
Brown, Charles E., 4,635,643, Cl. 128-653.000.
Medical Engineering Corporation: *See*—
Carter, Garry L., 4,683,748, Cl. 73-226.000.
Carter, Garry L., 4,713,049, Cl. 604-8.000.
Finney, Roy P., 4,682,589, Cl. 128-79.000.
Weeks, Vaughan B., 4,645,492, Cl. 604-174.000.
Medical Imaging Technology Incorporated: *See*—
Daubin, Scott C.; and Conn, Carl G., 4,668,915, Cl. 324-309.000.
Medical Innovations Corporation: *See*—
Parks, Stephen K., 4,666,433, Cl. 604-178.000.
Parks, Stephen K., 4,685,901, Cl. 604-96.000.
Parks, Stephen K., 4,701,163, Cl. 604-178.000.
Medical Magnetics, Inc.: *See*—
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Medical Research & Development Associates: *See*—
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Medical Research Institute: *See*—
Sutter, Erich E., 4,651,145, Cl. 340-706.000.
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Larm, Olle; and Seljelid, Rolf, 4,707,471, Cl. 514-54.000.
Medici, Brenno; and Lodetti, Attilio, to AG fur industrielle Elektronik AGIE. Spark erosion machine with coupled wire electrode guidance heads. 4,677,270, 6-30-87, Cl. 219-69.00W.

Medicor Muyek: *See—*
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Medicore, Inc.: *See—*
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Medicorp Research Laboratories Corporation: *See—*
Karcher, Gilles; Amor, Max; Niddam, Roger; and Villemot, Jean-Pierre, 4,685,473, Cl. 128-772.000.
Karcher, Gilles; Amor, Max; Niddam, Roger; and Villemot, Jean-Pierre, 4,697,574, Cl. 128-1.00D.
Medin, David L., to U.S. Video. Synchronization interface circuit. 4,670,785, 6-2-87, Cl. 358-149.000.
Medina, Antonio. Three dimensional video image display system. 4,654,699, 3-31-87, Cl. 358-88.000.
Medina, Antonio; and Zeevi, Yehoshua Y. Camera flash attachment for three dimensional imaging systems. 4,695,130, 9-22-87, Cl. 350-132.000.
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Mediolanum Farmaceutici S.R.L.: *See—*
Mascellani, Giuseppe; Fravolini, Arnaldo; and Terni, Patrizia, 4,668,784, Cl. 544-32.000.
Mascellani, Giuseppe; Fravolini, Arnaldo; and Terni, Patrizia, 4,684,647, Cl. 514-222.000.
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Jacob, Peter, 4,648,871, Cl. 604-149.000.
Mediscan Research Limited: *See—*
Robbins, Adam, 4,686,998, Cl. 128-670.000.
Meditec-Reinhardt Thyzel GmbH: *See—*
Schroder, Eckhard; and Thyzel, Reinhardt, 4,652,092, Cl. 350-463.000.
Schroder, Eckhard; and Thyzel, Reinhardt, 4,702,245, Cl. 128-303.100.
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Schaffer, Irving; and Emmerich, Claude L., 4,684,367, Cl. 604-140.000.
Medler, Charles E.; and McInturff, Terry C. Tap dance shoe including integral electromechanical energy conversion means. 4,660,305, 4-28-87, Cl. 36-139.000.
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Dengler, Alfred; and Medler, Eberhard, 4,697,741, Cl. 239-391.000.
Medley, Frank W., III. Fluid filter having separable elements. 4,695,377, 9-22-87, Cl. 210-132.000.
Medley, Frank W., III: *See—*
Aschenbeck, Weldon J.; and Medley, Frank W., III, 4,693,357, Cl. 194-202.000.
Medley, Travis D., Jr. Holder for eye glasses. 4,695,026, 9-22-87, Cl. 248-316.500.
Medlin, Lewis B., Jr. Outlet box bracket with stabilizer. 4,688,693, 8-25-87, Cl. 220-3.900.
Medlin, William L.; and Zumwalt, Gary L., to Mobil Oil Corporation. Borehole logging method for determining the damping of acoustic tube waves in subsurface formations along a borehole wall. 4,715,019, 12-22-87, Cl. 367-31.000.
Medmetric Corporation: *See—*
Daniel, Dale M.; and Watkins, Kay R., 4,712,542, Cl. 128-92.00V.
Mednick, R. Lawrence; and Blum, David B., to Chem Systems, Inc. Method for making methanol. 4,639,470, 1-27-87, Cl. 518-700.000.
Mednis, Juris M., to Universal Symetrics Corporation. Multiple variable container package. 4,640,423, 2-3-87, Cl. 215-10.000.
Mednis, Juris M., to Universal Symetrics Corporation. Large stub spout bottles and mated combination unit. 4,673,094, 6-16-87, Cl. 215-10.000.
Mednis, Juris M., to Universal Symetrics Corporation. Multiple interconnected containers with elongated necks and transverse recesses. 4,708,253, 11-24-87, Cl. 215-10.000.
Medosan Industrie Biochimiche Riunite S.p.A.: *See—*
Baglioni, Alessandro, 4,652,575, Cl. 514-370.000.
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Paton, Boris E.; Medovar, Boris I.; Biletsky, Semen M.; Saenko, Vladimir Y.; Us, Vasiliy I.; Krendeleva, Alisa I.; Barvinko, Jury P.; Medovar, Lev B.; Pivovarsky, Nikolai B.; and Astafiev, Nikolai A., 4,711,387, Cl. 228-143.000.
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Medow, Sheila. Activity tote. 4,685,570, 8-11-87, Cl. 206-579.000.
Medrad, Inc.: *See—*
Reilly, David M.; and Uber, Arthur E., III, 4,677,980, Cl. 128-655.000.
Medri, Mario W.: *See—*
Becker, Amy J.; Bagan, James E.; and Medri, Mario W., 4,673,578, Cl. 426-93.000.
Medscan B.V.: *See—*
Hutcheson, David W.; Van Der Molen, Engelbertus J.; and Oly, Pieter J., 4,648,408, Cl. 128-770.000.
Medtech Diagnostics Inc.: *See—*
Truglio, Diana, 4,709,705, Cl. 128-750.000.
Medtronic, Inc.: *See—*
Adams, Theodore, 4,693,253, Cl. 128-419.00D.
Beck, Robert C., 4,649,931, Cl. 128-708.000.
Berntson, Peter K., 4,676,248, Cl. 128-419.0PG.
Duggan, Stephen R., 4,692,147, Cl. 604-93.000.
Gogolewski, Sylwester; and Pennings, Albert J., 4,661,530, Cl. 521-137.000.
Jevne, Allan H.; Cahalan, Patrick T.; and Coury, Arthur J., 4,650,614, Cl. 260-513.00N.
Kraska, Robert E.; Wilary, Frank J.; and Lessar, Joseph F., 4,678,868, Cl. 174-152.0GM.
Meyerhoff, Mark E.; Fogt, Eric J.; and Untereker, Darrel F., 4,694,834, Cl. 128-635.000.
Rao, T. V.; and Samec, Robert C., 4,695,519, Cl. 429-52.000.
Rise, Mark T.; and Stanton, David J., 4,690,144, Cl. 128-419.00R.
Runquist, Jonas A.; Howard, William G.; and Berberick, David R., 4,666,799, Cl. 429-101.000.
Smits, Karel F. A. A., 4,641,656, Cl. 128-419.00D.
Stokes, Kenneth B., 4,643,201, Cl. 128-786.000.
Stokes, Kenneth B., 4,711,251, Cl. 128-784.000.
Tacker, Willis A., Jr.; Bourland, Joe D.; Babbs, Charles F.; and Geddes, Leslie A., 4,708,145, Cl. 128-419.00D.
Medunitsa, Vladimir L.: *See—*
Shishkin, Viktor V.; Shlatgauer, Boris I.; and Medunitsa, Vladimir L., 4,699,078, Cl. 118-72.000.
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Medvick, Richard J.; and Wagner, Ross L., to Swagelok Company. Poppet valve. 4,665,943, 5-19-87, Cl. 137-543.170.
Medvick, Richard J.; and Wagner, Ross L., to Swagelok Company. Coupling. 4,671,540, 6-9-87, Cl. 285-87.000.
Medvick, Richard J.; Weber, Richard C., Jr.; Wagner, Ross L.; and Brand, Edward M., to Swagelok Company. Coupling. 4,685,490, 8-11-87, Cl. 137-614.030.
Medvick, Richard J.: *See—*
Scheffel, Gary W.; Medvick, Richard J.; and Steiss, William C., 4,637,430, Cl. 137-516.290.
Medvid, Richard J., to Duriron Company, Inc., The. Plug valve. 4,711,264, 12-8-87, Cl. 137-241.000.
Medwed, Emmerich, to Multivac Sepp Haggenmuller KG. Heating apparatus for heating sheet material before the forming process. 4,650,967, 3-17-87, Cl. 219-388.000.
Medwell, Roger T. A., to National Plastics Limited. Composite helmet. 4,656,674, 4-14-87, Cl. 2-410.000.
Medwid, Jeffrey B.; Torley, Lawrence W.; and Tomcufcik, Andrew S., to American Cyanamid Company. Substituted 2-[b-substituted-amino)-ethylamino]-1,4-naphthalenediones for treating asthma, allergic diseases and inflammation in warm-blooded animals. 4,686,220, 8-11-87, Cl. 514-252.000.
Medwid, Jeffrey B.; and Torley, Lawrence W., to American Cyanamid Company. Substituted quinolinediones. 4,692,449, 9-8-87, Cl. 514-254.000.
Mee, Gary L.; and Willcott, M. Robert, to NMR Imaging, Inc. Method of mapping magnetic field strength and tipping pulse accuracy of an NMR imager. 4,710,715, 12-1-87, Cl. 324-307.000.
Mee, Geoffrey R.; and Rosen, Philip, to Brush Fusegear Limited. Automatic sectionalizer. 4,636,764, 1-13-87, Cl. 337-169.000.
Meece, Donald R.: *See—*
Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., 4,647,466, Cl. 426-387.000.
Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., 4,693,905, Cl. 426-599.000.
Meehan, Frank. Method and article for neutralizing offensive odors. 4,633,533, 1-6-87, Cl. 4-222.000.
Meek, Dale E.: *See—*
Doremus, Bernard; and Meek, Dale E., 4,658,904, Cl. 166-336.000.
Meek, Jan; and Willemse, Kees, to Heerema Engineering Service BV. Tower structure and methods of fabricating such a structure. 4,687,380, 8-18-87, Cl. 405-204.000.
Meek, John R.: *See—*
Goch, Thomas A.; and Meek, John R., 4,653,511, Cl. 128-763.000.
Meek, John T.; and Stockton, Gerald W., to American Cyanamid Company. Fourier transform ion cyclothon resonance mass spectrometer with spatially separated sources and detector. 4,686,365, 8-11-87, Cl. 250-281.000.
Meek, Robert K.: *See—*
Eagen, Duane M.; and Meek, Robert K., 4,687,018, Cl. 137-340.000.
Meek, Thomas R.; and Butterfield, Howard B., to Standard Telephones & Cables Public Limited Company. Radio receiver. 4,674,632, 6-9-87, Cl. 375-120.000.
Meek, Thomas T.; and Blake, Rodger D., to United States of America, Energy. Mixture for producing fracture-resistant, fiber-reinforced ceramic material by microwave heating. 4,695,695, 9-22-87, Cl. 219-10.55M.
Meeker, Gregory W.; Bleck, Norris E.; Rizzi, Marc A.; and Irick, Carl M., to Farrel Corporation. Rotary plasticator screw injection machine. 4,714,422, 12-22-87, Cl. 425-204.000.

Meeker, John G. Woodkiln combustion device. 4,681,087, 7-21-87, Cl. 126-126.000.
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Andrews, George E.; Davis, Paul C.; Farley, Dennis C.; Kravitz, Stanley H.; Meeker, Thrygve R.; Petersen, Owe G.; and Schelling, Arthur W., 4,715,049, Cl. 375-106.000.
Meeks, Robert E.: *See*—
Bogan, John J.; and Meeks, Robert E., 4,662,967, Cl. 156-242.000.
Meenan, William C.; and Sullivan, George D., to American Toxic Disposal Partners. Method and apparatus for separating dioxin from fluidizable solids. 4,685,220, 8-11-87, Cl. 34-10.000.
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Meer, Jeffrey A. Naso-enteral tube harness apparatus and method. 4,634,425, 1-6-87, Cl. 604-54.000.
Meerbaum, Samuel: *See*—
Corday, Eliot; and Meerbaum, Samuel, 4,689,041, Cl. 604-53.000.
Meerman, Arend H.: *See*—
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Meeuwis, Johannes C. M.: *See*—
Kasperkovitz, Wolfdietrich G.; and Meeuwis, Johannes C. M., 4,642,482, Cl. 307-264.000.
Meffert, Alfred: *See*—
Eckwert, Klemens; Jeromin, Lutz; Meffert, Alfred; Peukert, Eberhard; and Gutsche, Bernhard, 4,647,678, Cl. 549-528.000.
Lange, Fritz; and Meffert, Alfred, 4,650,865, Cl. 544-174.000.
Mefina S.A.: *See*—
Fresard, Marcel; Plomb, Francis; and Court, Pierre, 4,649,608, Cl. 29-26.00A.
Jimenez, Antonio; and Rochat, Pierre-Maurice, 4,646,665, Cl. 112-260.000.
Mega Enterprises, Inc.: *See*—
Johnston, Harry R., 4,658,489, Cl. 29-268.000.
Mega/ERG, Incorporated: *See*—
Lerner, Lawrence; and Diskin, Stephen P., 4,682,670, Cl. 181-287.000.
Lerner, Lawrence; and Diskin, Stephen P., 4,705,484, Cl. 439-502.000.
Mega X Protection: *See*—
Carteau, Bernard; Legros, Jean-Pierre; Charrieras, Andre ; and Feuvrier, Michel, 4,706,423, Cl. 52-169.700.
Megabit Communications, Inc.: *See*—
Milligan, James H., 4,642,629, Cl. 340-825.000.
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Hall, David R.; Hall, H. Tracy, Jr.; and Lauridsen, Christian L., 4,662,348, Cl. 125-30.00R.
Hall, H. Tracy, Jr.; and Cerceau, Jean-Michel, 4,647,546, Cl. 501-96.000.
Megapulse Inc.: *See*—
Johannessen, Paul R.; and Planck, Peter V., 4,689,803, Cl. 375-63.000.
Ver Planck, Peter, 4,674,022, Cl. 363-57.000.
Megatek Corporation: *See*—
Heckel, Todd A., 4,697,178, Cl. 340-729.000.
Megee, Bryan A.; and Whiteside, James D., II, to Phillips Petroleum Company. Method and apparatus for controlling the pressure of gases flowing through a conduit. 4,679,579, 7-14-87, Cl. 137-13.000.
Meger, Peter: *See*—
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Megerle, Friedrich: *See*—
Hilbrans, Hermann; Gamroth, Michael; Melcher, Gerhard; and Megerle, Friedrich, 4,639,269, Cl. 75-76.000.
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Meggle Milchindustrie GmbH & Co. KG.: *See*—
Bauer, Kurt H.; Pritzwald-Stegmann, Bernd; and Luft, Werner, 4,693,750, Cl. 106-163.100.
Meggs, Dennis. Bases for the game of baseball. 4,690,403, 9-1-87, Cl. 273-25.000.
Meggs, Keith G.: *See*—
Swisher, Gary R.; and Meggs, Keith G., 4,655,727, Cl. 446-470.000.
Megnint, Lucien, to Neyrpic. Low-head hydroelectric installation. 4,641,040, 2-3-87, Cl. 290-52.000.
Mego, Kazuyoshi; Hiratsuka, Shigetoshi; and Hara, Eiichi, to Hitachi, Ltd. Thermal print head. 4,636,813, 1-13-87, Cl. 346-76.0PH.
Megraw, Robert E.: *See*—
Vail, Martha; Megraw, Robert E.; and Hoskins, Michael K., 4,663,295, Cl. 436-18.000.
Meguerdichian, Gary M.; and Greenstien, Robert E., to Otis Elevator Company. Method for privately controlling an elevator. 4,655,324, 4-7-87, Cl. 187-121.000.
Meguire, Patrick G.; and Pitoniak, Thomas J., to NCR Corporation. Chord entry keying of data fields. 4,680,572, 7-14-87, Cl. 340-365.00R.
Meguriya, Noriyuki: *See*—
Hida, Yoshinori; Meguriya, Noriyuki; and Yoshida, Akira, 4,697,877, Cl. 350-96.300.
Meguro, Akira: *See*—
Kusunoki, Gen; Meguro, Akira; Tokushima, Yasuo; Ohta, Koji; Kawai, Tadashi; and Sugata, Akihiko, 4,667,621, Cl. 118-687.000.
Meguro, Hiroshi, to Sony Corporation. Magnetic tape cassette having automatic brake. 4,646,190, 2-24-87, Cl. 360-132.000.
Meguro, Hiroshi: *See*—
Watanabe, Toshihiro; and Meguro, Hiroshi, 4,714,213, Cl. 242-198.000.
Meguro, Jun-Ichi; McKisic, Kelvin O.; and Manley, James R., Jr., to American Hospital Supply Corp. Cuvette belt faulty seal detector. 4,677,372, 6-30-87, Cl. 324-54.000.
Meguro, Jun-Ichi; Solberg, Arne L.; Stark, William A.; and Hsei, Paul K., to American Hospital Supply Corporation. Cuvette belts and manufacture of same. 4,685,880, 8-11-87, Cl. 425-416.000.
Meguro, Kanji; and Nishikawa, Kohei, to Takeda Chemical Industries, Ltd. 1,4-benzothiazine derivatives, compositions containing them and method of use. 4,640,916, 2-3-87, Cl. 514-222.000.
Meguro, Kanji; and Fujita, Takeshi, to Takeda Chemical Industries, Ltd. Thiazolidinedione derivatives, useful as antidiabetic agents. 4,687,777, 8-18-87, Cl. 514-342.000.
Meguro, Kazunori: *See*—
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, 4,670,320, Cl. 428-141.000.
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, 4,673,435, Cl. 75-235.000.
Meguro, Kenjiro; Sagawa, Koichiro; Yokota, Hirofumi; and Takehara, Masahiro, to Ajinomoto Company Incorporated. Surface modifier for inorganic substances. 4,640,943, 2-3-87, Cl. 523-200.000.
Meguro, Niroshi, to Sony Corporation. Lock mechanism for tape protective closure for magnetic tape cassette. 4,683,510, 7-28-87, Cl. 360-132.000.
Meguro, Satoshi: *See*—
Komori, Kazuhiro; Meguro, Satoshi; Ito, Satoru; Kihara, Toshimasa; and Wakimoto, Harumi, 4,653,026, Cl. 365-189.000.
Okuyama, Kousuke; Suzuki, Norio; Meguro, Satoshi; and Nagasawa, Kouichi, 4,637,124, Cl. 29-571.000.
Meguro, Takashi: *See*—
Yasunami, Masabumi; Takase, Kahei; Shinji, Akira; Mimura, Toru; Torii, Kunio; Kobayashi, Takaaki; Okutsu, Masaru; and Meguro, Takashi, 4,656,194, Cl. 514-693.000.
Megy, Joseph A., to Occidental Research Corporation. Process for making zero valent titanium from an alkali metal fluotitanate. 4,668,286, 5-26-87, Cl. 75-84.000.
Megy, Joseph A.: *See*—
Hard, Robert A.; and Megy, Joseph A., 4,655,825, Cl. 75-0.50B.
Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassamee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo ; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, to Richter Gedeon Vegyeszeti Gyar Rt. Pharmaceutical compositions with a neuroleptic action and process for preparing same. 4,681,887, 7-21-87, Cl. 514-284.000.
Megyeri, Gabor; Keve, Tibor; Galambos, Janos; Kovacs, Lajos, Jr.; Stefko, Bela; Bogsch, Erik; and Trischler, Ferenc, to Richter Gedeon Vegyeszeti Gyar Rt. Process for the preparation of 2-bromo-α-ergocryptine. 4,697,017, 9-29-87, Cl. 544-346.000.
Mehdipour, Fariborz. Three-dimensional magnetic bubble data storage and optical retrieval system. 4,660,173, 4-21-87, Cl. 365-10.000.
Meheen Engineering Corp.: *See*—
Meheen, H. Joe, 4,707,962, Cl. 52-565.000.
Meheen, H. Joe, to Meheen Engineering Corp. Cascade wall structure. 4,707,962, 11-24-87, Cl. 52-565.000.
Mehl, Donald N.: *See*—
Discher, Vernon L.; Holen, Larry K.; and Mehl, Donald N., 4,665,652, Cl. 49-460.000.
Mehl, Jack J.; Wasek, Raymond T.; and Desai, Jay, to Becton, Dickinson and Company. Microbial pathogen detecting system and process. 4,666,850, 5-19-87, Cl. 435-243.000.
Mehl, Wolfgang; and Amon, Albert, to Sicpa Holding S.A. Heat transfer printing of natural silk substrates. 4,636,223, 1-13-87, Cl. 8-471.000.
Mehl, Wolfgang; and Amon, Albert, to Sicpa Holding SA. Transfer printing sheet carrying impregnant and transfer printing of cellulose, wool, silk or polyamide textile materials. 4,664,670, 5-12-87, Cl. 8-470.000.
Mehl, Wolfgang, to Sicpa Holding S.A. Transfer sheet for the thermal dry impression of cellulose fibers. 4,682,983, 7-28-87, Cl. 08-468.000.
Mehlan, Bernd: *See*—
Morgan, Annis R., Jr.; Mehlan, Bernd; Gress, Josef; Williford, Hugh S.; and Baumgartner, Gunter, 4,676,074, Cl. 62-277.000.
Mehlert, Martin: *See*—
Adrian, Willy; and Mehlert, Martin, 4,658,946, Cl. 198-337.000.
Mehlin, Hans: *See*—
Gebauer, Helmut; and Mehlin, Hans, 4,647,406, Cl. 252-522.00R.
Gebauer, Helmut; Mehlin, Hans; and Regiert, Marlies, 4,704,477, Cl. 568-377.000.
Mehmert, Larry B.; and Huegel, Irene, to Togie Corporation. Drain pipe animal guard. 4,702,828, 10-27-87, Cl. 210-131.000.
Mehnert, Johannes; and Effenberger, Alfred. Apparatus for the manufacture of tubular preforms of plastics. 4,652,229, 3-24-87, Cl. 425-528.000.
Mehnert, Walter; and Barbacsy, Ludwig, to MITEC, Moderne Industrietechnik GmbH. Rectifying circuit arrangement for generating at least one controllable direct voltage from at least one alternating voltage. 4,672,526, 6-9-87, Cl. 363-69.000.
Mehnert, Walter, to MITEC Moderne Industrietechnik GmbH. Inverter for generating a staircase-shaped a.c. voltage on each of the phase conductors of a multiphase system. 4,685,043, 8-4-87, Cl. 363-43.000.

Mehnert, Walter: *See—*
Bolkow, Ludwig; Mehnert, Walter; and Chaborski, Hoiko, 4,699,508, Cl. 356-5.000.

Mehr, Lothar: *See—*
Vermaat, Huibrecht P.; Forch, Heiko; and Mehr, Lothar, 4,649,989, Cl. 165-11.200.

Mehra, Ravinder C.: *See—*
Leoncavallo, Richard A.; Baird, Peter K.; Mehra, Ravinder C.; and Rajguru, Sharad, 4,689,147, Cl. 210-232.000.

Mehra, Yuv R., to Advanced Extraction Technologies, Inc. Extractive stripping of inert-rich hydrocarbon gases with a preferential physical solvent. 4,680,042, 7-14-87, Cl. 62-17.000.

Mehra, Yuv R., to Advanced Extraction Technologies, Inc. Process for using alkyl substituted C8-C10 aromatic hydrocarbons as preferential physical solvents for selective processing of hydrocarbon gas streams. 4,692,179, 9-8-87, Cl. 62-17.000.

Mehra, Yuv R., to Advanced Extraction Technologies, Inc. Conversion of lean oil absorption process to extraction process for conditioning natural gas. 4,696,688, 9-29-87, Cl. 62-17.000.

Mehrbians, Raphael: *See—*
Karabed, Razmik; and Mehrbians, Raphael, 4,681,324, Cl. 273-295.000.

Mehren Rubber A/S: *See—*
Haaland, Per, 4,690,414, Cl. 277-207.00A.

Mehrgardt, Soenke, to Deutsche ITT Industries GmbH. Digital FM detector for a digital signal. 4,634,989, 1-6-87, Cl. 329-112.000.

Mehrgardt, Soenke; and Ehret, Bernhard, to Deutsche ITT Industries GmbH. Digital integrated frequency demodulator subcircuit. 4,663,595, 5-5-87, Cl. 329-50.000.

Mehrgardt, Soenke, to Deutsche ITT Industries GmbH. Television receiver for flicker-free reproduction of an interlaced video signal. 4,683,497, 7-28-87, Cl. 358-166.000.

Mehrgardt, Soenke, to Deutsche ITT Industries GmbH. Interface circuit contained in a color-television receiver and serving to connect a home computer. 4,694,325, 9-15-87, Cl. 358-11.000.

Mehrgardt, Soenke, to Deutsche ITT Industries GmbH. Frequency divider circuit. 4,694,475, 9-15-87, Cl. 377-48.000.

Mehrgardt, Soenke, to Deutsche ITT Industries GmbH. Frequency synthesizer circuit. 4,700,040, 11-10-87, Cl. 331-1.00A.

Mehrgardt, Soenke, to Deutsche ITT Industries GmbH. Circuit arrangement for filtering and demodulating a signal frequency-modulator with at least one audio signal. 4,709,270, 11-24-87, Cl. 358-188.000.

Mehrgardt, Soenke, to Deutsche ITT Industries GmbH. Data reduction circuit. 4,713,828, 12-15-87, Cl. 375-30.000.

Mehta, Avinash C., to Polaroid Corporation. 2-(formylphenyl) benzotriazole intermediates. 4,709,041, 11-24-87, Cl. 548-260.000.

Mehta, Bakulesh A.: *See—*
Morganstein, Sanford J.; Tuck, Edward F.; Mehta, Bakulesh A.; and Krakau, Herbert B., 4,696,028, Cl. 379-88.000.

Mehta, Kamal N.: *See—*
Takiar, Hem P.; and Mehta, Kamal N., 4,684,975, Cl. 357-70.000.

Mehta, Kapil: *See—*
Lopez-Berestein, Gabriel; Fainstein, Victor; Hersh, Evan M.; Hopfer, Roy L.; Juliano, Rudolph L.; Mehta, Kapil; and Mehta, Reeta, 4,663,167, Cl. 514-37.000.

Mehta, Pradip S., Valsamis, Lefteris N.; and Donoian, Gary S., to Farrel Corporation. Rotary processor for plastic and polymeric materials providing surge compensation. 4,711,581, 12-8-87, Cl. 366-99.000.

Mehta, Rajanikant: *See—*
Dingerdissen, John J.; Mehta, Rajanikant; Nisbet, Louis J.; Shearer, Marcia C.; and Wasserman, Gail F., 4,694,069, Cl. 530-317.000.

Mehta, Rajendra K.: *See—*
Bauman, Bernard D.; and Mehta, Rajendra K., 4,659,674, Cl. 436-5.000.

Mehta, Reeta: *See—*
Lopez-Berestein, Gabriel; Fainstein, Victor; Hersh, Evan M.; Hopfer, Roy L.; Juliano, Rudolph L.; Mehta, Kapil; and Mehta, Reeta, 4,663,167, Cl. 514-37.000.

Mehto, Lauri: *See—*
Saarinen, Olli; Tihverainen, Paavo; Rinne, Seppo; and Mehto, Lauri, 4,646,494, Cl. 52-232.000.

Mei, George C., to Olin Corporation. Non-toxic, non-corrosive priming mix. 4,675,059, 6-23-87, Cl. 149-43.000.

Mei, George C.: *See—*
Lopata, Frances G.; and Mei, George C., 4,674,409, Cl. 102-471.000.
Lopata, Frances G.; and Mei, George C., 4,689,185, Cl. 264-3.400.

Meidel, Karlheinz, Blow and suction nozzle for household or industrial suction tools. 4,651,381, 3-24-87, Cl. 15-345.000.

Meier, Albert H.; and Cincotta, Anthony H., to Louisiana State University and Agricultural and Mechanical College. Method of inhibiting body fat stores. 4,659,715, 4-21-87, Cl. 514-288.000.

Meier, Beat: *See—*
Meszaros, Sandor; Verzar-Petri, Gisela; Nyiredy-Mikita, Klara; Tyihak, Erno; Nyiredy, Szabolcs; Meier, Beat; Sticher, Otto; and Dallenbach-Toelke, Karin, 4,678,570, Cl. 210-198.200.

Meier, Bert: *See—*
Jellinek, Karl; Meier, Bert; and Grundke, Ulrich, 4,701,478, Cl. 522-97.000.

Meier, Christof: *See—*
Bartelt, Richard; and Meier, Christof, 4,665,352, Cl. 318-568.000.

Meier, Daniel A.; and Groshans, Michael J., to Nalco Chemical Company. Method of preventing corrosion of uncoated aluminum sheet or beverage cans in a brewery pasteurizer water system. 4,705,703, 11-10-87, Cl. 427-239.000.

Meier, Daniel J., to American Monitor Corporation. Automatic monochromator-testing system. 4,669,878, 6-2-87, Cl. 356-319.000.

Meier, Francis W. Vertically discontinuous blinds. 4,657,061, 4-14-87, Cl. 160-176.00R.

Meier, Friedrich: *See—*
Altmeyer, Werner; Jakobs, Ewald; and Meier, Friedrich, 4,710,078, Cl. 409-233.000.

Meier, Gunter, to Meier, Gunter GmbH. Wheelchair. 4,676,519, 6-30-87, Cl. 280-242.0WC.

Meier, Gunter GmbH: *See—*
Meier, Gunter, 4,676,519, Cl. 280-242.0WC.

Meier, Hans-Anton: *See—*
Corato, Renzo; Ganapini, Giulio; Meier, Hans-Anton; Poggi, Mauro; Rosso, Antonio; and Sanchioni, Sergio, 4,674,975, Cl. 432-11.000.

Meier, Hans-Joachim; and Rafael, Aruth, to Deutsche Babcock Werke Aktiengesellschaft. Device for varying the height of a bed in a fluidized combustion chamber. 4,667,610, 5-26-87, Cl. 110-245.000.

Meier, Hans R.: *See—*
Rasberger, Michael; Hofmann, Peter; Meier, Hans R.; and Dubs, Paul, 4,661,594, Cl. 546-22.000.

Meier, Hans-Rudolf: *See—*
Orban, Ivan; Meier, Hans-Rudolf; Dubs, Paul; Evans, Samuel; and Hofmann, Peter, 4,699,939, Cl. 524-291.000.

Meier, Heinrich: *See—*
Gale, Michael T.; and Meier, Heinrich, 4,663,524, Cl. 250-237.00R.

Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerhard; and Kloker, Werner, to Bayer Aktiengesellschaft. Arylamine derivatives which can be incorporated as co-polymerized units in unsaturated resins, the preparation of these derivatives and their use as curing accelerators. 4,634,791, 1-6-87, Cl. 560-163.000.

Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerhard; and Kloker, Werner, to Bayer Aktiengesellschaft. Arylamine derivatives which can be incorporated as copolymerized units in unsaturated resins, the preparation of these derivatives and their use as curing accelerators. 4,673,713, 6-16-87, Cl. 525.278.000.

Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerhard; and Kloker, Werner, to Bayer Aktiengesellschaft. Polymerizable compositions and the use of arylamines as hardening accelerators for these compositions. 4,694,041, 9-15-87, Cl. 525-25.000.

Meier, Helmut-Martin; Heine, Hans-Georg; Pischtschan, Alfred; Dhein, Rolf; and Rudolph, Hans, to Bayer Aktiengesellschaft. Stabilized thermoplastic moulding materials based on ABS polymers and acyl phosphanoxides. 4,710,529, 12-1-87, Cl. 524-139.000.

Meier, Jean; and Clemence, Francois, to Roussel Uclaf. Novel 4H-1,2,4-triazole derivatives. 4,659,729, 4-21-87, Cl. 514-383.000.

Meier, Johann: *See—*
Dotzler, Josef; and Meier, Johann, 4,679,760, Cl. 248-602.000.

Meier, Jurgen: *See—*
Michalak, Stanislaw; Weber, Klaus-Dieter; and Meier, Jurgen, 4,681,746, Cl. 423-239.000.

Meier, Klaus-Peter: *See—*
Kreuzer, Helmut; and Meier, Klaus-Peter, 4,682,410, Cl. 29-596.000.

Meier, Konrad, to Siemens Aktiengesellschaft. Method and apparatus for fabricating a curved magnet coil. 4,709,470, 12-1-87, Cl. 29-605.000.

Meier, Konrad: *See—*
Jahnke, Andreas; Ries, Gunter; and Meier, Konrad, 4,694,868, Cl. 140-92.100.

Meier, Kurt: *See—*
Riediker, Martin; Meier, Kurt; and Zweifel, Hans, 4,713,401, Cl. 522-65.000.

Meier, Lynn A.; and Saele, Arvid H., to Deere & Company. Enclosure panel for tractor. 4,707,021, 11-17-87, Cl. 296-196.000.

Meier, Max: *See—*
Kunnecke, Walter; Amacher, Urs; and Meier, Max, 4,703,150, Cl. 219-535.000.

Meier, Michael J.: *See—*
McConkle, Charles C.; O'Neil, William F.; Meier, Michael J.; Fjeldsted, Thomas P.; Thomas, James L.; and Pfeifer, Arthur F., 4,670,653, Cl. 250-330.000.

Meier, Remy: *See—*
Comte, Pierre-Andre; Burri, Caius; Claes, Lutz; Gerngross, Heinz; and Meier, Remy, 4,714,076, Cl. 128-92.0ZW.

Meier, Rudolf H., to McDonnell Douglas Corporation. Ellipsoidal solar dish concentrator. 4,665,895, 5-19-87, Cl. 126-438.000.

Meier, Stefan; and Muller, Karl-Heinz, to Leybold-Heraeus GmbH. Apparatus for performing the SNMS method. 4,670,651, 6-2-87, Cl. 250-309.000.

Meier, Ursula: *See—*
Soldanski, Heinz-Dieter; Holdt, Bernd-Dieter; and Meier, Ursula, 4,659,494, Cl. 252-88.000.

Meier, Walter: *See—*
Muller, Kurt; and Meier, Walter, 4,710,629, Cl. 250-342.000.

Meier, Werner: *See—*
Furst, Andor; Labler, Ludwig; and Meier, Werner, 4,691,032, Cl. 549-450.000.

Meier, Willi, to Dorina Nahmaschinen GmbH. Lateral movement feed dog for a sewing machine. 4,691,654, 9-8-87, Cl. 112-303.000.

Meighen, Terrence: *See—*
Brennan, Robert J.; Meighen, Terrence; and Phillipson, Walter M., 4,641,901, Cl. 339-14.00R.
Phillipson, Walter M.; Brennan, Robert J.; and Meighen, Terrence, 4,653,837, Cl. 339-143.00R.

Meigne, Christian: *See*—
Keryhuel, Alain; and Meigne, Christian, 4,641,176, Cl. 357-74.000.

Meigs, Gordon W., to Tektronix, Inc. High-speed power amplifier for driving inductive loads. 4,670,692, 6-2-87, Cl. 315-408.000.

Meigs, Gordon W.: *See*—
Baur, Bruce K.; and Meigs, Gordon W., 4,698,559, Cl. 315-408.000.

Meijer, Egbert W.: *See*—
Hummelen, Jan C.; Meijer, Egbert W.; and Wynberg, Hans, 4,705,847, Cl. 530-350.000.

Meijer, Henricus E. H.: *See*—
Lemstra, Pieter J.; Meijer, Henricus E. H.; and van Unen, Lambert H. T., 4,668,717, Cl. 523-322.000.

Meijer, Johan B. A., to Rodiac Intercessor Ltd. Scraper cleaning apparatus for reversible conveyor belts. 4,694,952, 9-22-87, Cl. 198-499.000.

Meijer, Johannes M.: *See*—
Claasen, Theodoor A. C. M.; Beenker, Gerardus F. M.; van Gerwen, Petrus J.; Meijer, Johannes M.; and Didden, Martinus L. N., 4,660,216, Cl. 375-58.000.
Claasen, Theodoor A. C. M.; Beenker, Gerardus F. M.; Van Gerwen, Petrus J.; Meijer, Johannes M.; and Didden, Martinus L. N., 4,672,633, Cl. 375-58.000.

Meijer, John, to Akzo NV. Novel desensitized ketone peroxide compositions and their use in the manufacture of foundry cores or moulds. 4,678,817, 7-7-87, Cl. 523-144.000.

Meijer, John; Westmijze, Hans; and Boelema, Eltjo, to Akzo NV. t-Alkenyl peroxy esters. 4,705,888, 11-10-87, Cl. 560-302.000.

Meijer, John: *See*—
Nollet, Andreas J. H.; Meijer, John; and Overkamp, Johannes W. A., 4,686,061, Cl. 252-95.000.

Meijer, Robert, to IMED Corporation. Air-in-line detector. 4,658,244, 4-14-87, Cl. 340-632.000.

Meijer, Roelf J., to Stirling Thermal Motors, Inc. Stirling engine with improved sealing piston ring assembly. 4,669,736, 6-2-87, Cl. 277-27.000.

Meijer, Roelf J.; and Ziph, Benjamin, to Stirling Thermal Motors, Inc. Corrosion resistant heat pipe. 4,703,796, 11-3-87, Cl. 165-104.260.

Meijer, Roelf J., to Stirling Thermal Motors, Inc. Solar powered Stirling engine. 4,707,990, 11-24-87, Cl. 60-641.150.

Meijer, Roelf J.; and Ziph, Benjamin, to Stirling Thermal Motors, Inc. Dual source external heating system for a heat pipe. 4,715,183, 12-29-87, Cl. 60-524.000.

Meijer, Rudolf H.: *See*—
Biesheuvel, Adrian A.; van Luik, Rudolf F.; and Meijer, Rudolf H., 4,664,750, Cl. 201-1.000.

Meiji Kikai Seisakusyo Co., Ltd.: *See*—
Shimohira, Shigeru; Kimoto, Yasuyuki; and Hirota, Kazuo, 4,685,622, Cl. 239-346.000.

Meiji Milk Products Company Limited: *See*—
Ando, Michihiro; Kawajiri, Ryoichi; and Uematsu, Hiroshi, 4,669,640, Cl. 222-541.000.
Kuwata, Tamotsu; Suginaka, Yutaka; and Ohtomo, Hideo, 4,673,583, Cl. 426-573.000.
Takahashi, Yasuyuki; Aizawa, Shigeru; Tamai, Shigeru; Yoshida, Toshiro; and Takahashi, Takeshi, 4,714,566, Cl. 252-314.000.

Meiji Seika Kabushiki Kaisha: *See*—
Mizoguchi, Yoshihiko; Sekine, Keiichi; Komiya, Yasutoyo; and Nishida, Yoshio, 4,657,142, Cl. 206-606.000.

Meiji Seika Kaisha, Ltd.: *See*—
Adachi, Takashi; and Hidaka, Hidemasa, 4,681,771, Cl. 426-658.000.
Inouye, Shigeharu; Koyama, Masao; Miyauchi, Keinosuke; Tsuruoka, Takashi; Kai, Fumio; Matsumoto, Kuniomi; Niida, Taro; and Akita, Eiichi, 4,647,572, Cl. 514-381.000.
Ishida, Kunio; Saito, Satoshi; Habuto, Akinaka; Murata, Tadahiko; Oiso, Hisayoshi; Joyama, Norio; and Fujimoto, Kazuhiro, 4,655,125, Cl. 99-355.000.
Nakatomi, Yasuo; Hara, Katsuhiko; Umeda, Fumio; Kono, Toshiaki; and Niimoto, Hisashi, 4,693,898, Cl. 426-19.000.
Sumi, Naoki; Yamashita, Hiroshi; and Sekizuka, Yasuo, 4,649,052, Cl. 426-49.000.
Yamamoto, Yuichi; Yoshida, Takashi; Fukatsu, Shunzo; and Ishimaru, Toshiyasu, 4,687,769, Cl. 514-202.000.

Meiko Industry Corporation, Ltd.: *See*—
Kosaka, Jiro, 4,633,790, Cl. 110-347.000.

Meiksin, Zvi H. Method and apparatus for transmitting wide-bandwidth frequency signals from mines and other power restricted environments. 4,652,857, 3-24-87, Cl. 340-347.00R.

Meilach, Alan: *See*—
Beech, Brian; Rust, Jeff; Meilach, Alan; and LeVasseur, Rod, 4,701,600, Cl. 235-375.000.

Meili, Ernst; and Rimmele, Karl, to MECAPEC S.A. Method and apparatus including a cushion of pulverulent magnetic material for stray field magnetic testing of ferromagnetic parts. 4,694,247, 9-15-87, Cl. 324-216.000.

Meili, Hermann, to Internationale Octrooi Maatschappij "Octropa" BV. Floor cleaning machine. 4,646,862, 3-3-87, Cl. 180-19.300.

Meili, Hermann, to Internationale Octrooi Maatschappij "Octropa" B.V. Floor-cleaning machine. 4,667,364, 5-26-87, Cl. 15-320.000.

Meili, Hermann, to Internationale Octrooi Maatschappij "Octropa" BV. Floor cleaning machine. 4,674,142, 6-23-87, Cl. 15-49.00R.

Meilin Corporation, The: *See*—
Densmore, Lin B., 4,642,855, Cl. 24-310.000.

Meillant, Henri P.: *See*—
Chizallet, Pierre J.; Drevet, Jean C.; Monnatte, Henri J.; Meillant, Henri P.; and Taillandier, Yves J., 4,672,544, Cl. 364-414.000.

Meiller, Hermann, to Grammer Sitzsysteme GmbH. Seat with adjustable armrest. 4,657,305, 4-14-87, Cl. 297-417.000.

Meiller, Hermann, to Grammer Sitzsysteme GmbH. Head support for a seat backrest. 4,673,214, 6-16-87, Cl. 297-408.000.

Meiller, John G.: *See*—
Flores, David P.; Meiller, John G.; and Massie, James D., 4,680,357, Cl. 526-265.000.

Meinan Machinery Works, Inc.: *See*—
Hasegawa, Katsuji, 4,640,857, Cl. 428-57.000.
Honda, Noriyuki, 4,675,066, Cl. 156-285.000.
Koba, Yoshinori, 4,653,197, Cl. 34-23.000.
Koba, Yoshinori, 4,691,629, Cl. 100-121.000.
Nakaya, Takashi, 4,681,002, Cl. 83-71.000.

Meindl, Bernd, to Konrad Doppelmayr & Sohn Maschinefabrik Gesellschaft m.b.H & Co. KG. Clamping device with test spring deformation measurement. 4,686,906, 8-18-87, Cl. 104-209.000.

Meinecke, Albrecht; Schmid, Hans-Rainer; and Egelhof, Dieter, to J.M. Voith GmbH. Sorter for paper pulp suspensions including a damping chamber. 4,684,444, 8-4-87, Cl. 162-380.000.

Meinel, Holger: *See*—
Jenle, Franz; and Meinel, Holger, 4,695,842, Cl. 342-59.000.

Meinen, Georg H. Portioning device. 4,648,154, 3-10-87, Cl. 17-35.000.

Meiners, Elmo R., to M & W Gear Company. Disc and chisel plow implement. 4,703,810, 11-3-87, Cl. 172-178.000.

Meiners, Hans-Joachim: *See*—
Rasshofer, Werner; Meiners, Hans-Joachim; Seel, Klaus; and Wussow, Hans-Georg, 4,645,630, Cl. 264-54.000.

Meinert, Rolf G.: *See*—
Mansuria, Mohanlal S.; Meinert, Rolf G.; Oktay, Sevgin; and Ostergren, Carl D., 4,696,578, Cl. 374-45.000.

Meinhardt, Ferdinand, to Linotype GmbH. Apparatus for the exposure of a recording carrier including alpha numberic characters of faces having a foreground pattern contrasting relative to a background pattern. 4,704,021, 11-3-87, Cl. 354-7.000.

Meinhardt, Helmut: *See*—
Lutz, Reinhold; Wendt, Helgo, deceased; Meinhardt, Helmut; Eschnauer, Heinz; and Lugscheider, E., 4,671,932, Cl. 420-452.000.

Meinhold, James F.; Musto, Joseph A.; Kramer, Karl C.; and Gottesman, Martin, deceased (by Gottesman, Karen, executrix), to General Foods Corporation. Method for the decaffeination of roasted coffee extracts. 4,659,577, 4-21-87, Cl. 426-387.000.

Meinig, Manfred. Flange ring for pipes. 4,679,832, 7-14-87, Cl. 285-414.000.

Meining, Hans: *See*—
Brandenstein, Manfred; Meining, Hans; and Kaschube, Karl F., 4,652,152, Cl. 384-496.000.

Meininger, Fritz; Otten, Joachim W., deceased; by Otten, Ursula, heir; and by Rudolph nee Otten, Anna G., heir, to Hoechst Aktiengesellschaft. Water-soluble dyestuffs coniaining fibre-reactive groups of the vinylsulfone series and the fluoro-s-triazinyl-amino series. 4,649,193, 3-10-87, Cl. 534-622.000.

Meininger, Fritz; Mischke, Peter; Konig, Gerd; and Springer, Hartmut, to Hoechst Aktiengesellschaft. Process for dyeing or printing cellulose fibers or cellulose blend fibers with pyridinium-triazine reactive dye, axable without alkali. 4,693,726, 9-15-87, Cl. 8-547.000.

Meininger, Fritz; and Schlafer, Ludwig, to Hoechst Aktiengesellschaft. Process for the preparation of lithium salts of anionic dyes by reacting the calcium salts with lithium sulfate or lithium hydrogen sulfate. 4,707,545, 11-17-87, Cl. 534-588.000.

Meininger, James R.: *See*—
Berchem, Donald J.; and Meininger, James R., 4,711,088, Cl. 60-321.000.

Meininger, Siegfried, to Kraftwerk Union Aktiengesellschaft. Waste removal system for problematic materials. 4,708,641, 11-24-87, Cl. 432-72.000.

Meininger, Siegfried: *See*—
Kratz, Gerhard; Meininger, Siegfried; Fischer, Eckhard; and Bege, Dietmar, 4,636,363, Cl. 422-159.000.
Mallek, Heinz; Zange, Egon; Schlenter, Wolfgang; Trumper, Karl; Meininger, Siegfried; and Bege, Dietmar, 4,652,404, Cl. 252-628.000.
Queiser, Horst; Meininger, Siegfried; and Kleinschroth, Karl Heinz, 4,655,968, Cl. 252-632.000.

Meinke, Peter: *See*—
Hayd, Axel; Meinke, Peter; Maurer, Martin; and Schwarz, Joachim, 4,636,607, Cl. 219-121.0LM.

Meins, Juergen, to Thyssen Industrie AG. Heteropolar magnet. 4,636,666, 1-13-87, Cl. 310-13.000.

Meins, Jurgen: *See*—
Holzinger, Gerhard; Meins, Jurgen; and Miller, Luitpold, 4,636,667, Cl. 310-13.000.

Meinstein, Siegfried: *See*—
Mausner, Marvin L.; and Meinstein, Siegfried, 4,690,785, Cl. 260-505.00N.

Meints, Gayle L.: *See*—
Person, Herman R.; Raesner, Dennis L.; and Meints, Gayle L., 4,692,655, Cl. 313-15.000.

Meinzer, Karl. Method and system for digital data transmission. 4,646,323, 2-24-87, Cl. 375-37.000.

Meir, Avraham A., to Seti, Inc. Electric generator assembly for a projectile. 4,665,332, 5-12-87, Cl. 310-77.000.

Meir, Avraham A., to Seti Inc. Impact test apparatus. 4,696,182, 9-29-87, Cl. 73-12.000.

Meis, Charles H.; and Siekmeier, David A., to Lindsay Manufacturing Co. Irrigation system and apparatus. 4,674,681, 6-23-87, Cl. 239-1.000.

Meis, Charles H.; and Overvaag, Duane B., to Lindsay Manufacturing Co. Drive for movable irrigation system and the like. 4,693,425, 9-15-87, Cl. 239-735.000.

Meisberger, Artur: *See*—
Neumann, Hans-Jurgen; Meisberger, Artur; and Weber, Wolfram, 4,675,117, Cl. 210-789.000.

Meisels, Alex: *See*—
Storni, Angelo; and Meisels, Alex, 4,697,020, Cl. 548-184.000.

Meisen, Klaus; and Towes, Peter, to Kleinewefers Textilmaschinen GmbH. Method of and apparatus for altering the moisture content of running webs. 4,712,472, 12-15-87, Cl. 100-37.000.

Meisenburg, Gary L.: *See*—
Gray, Charles F., Jr.; Meisenburg, Gary L.; and Zemlicka, Alvin, 4,679,682, Cl. 192-21.000.

Meisenheimer, Daniel T., Jr. Pressure sensor-monitor and excessive pressure level indicator. 4,654,643, 3-31-87, Cl. 340-626.000.

Meiser, Roland; Burkert, Josef; and Bendel, Ralf, to Thermotechnik G. Bauknecht GmbH; and Barlian, Reinhold. Wall mounted combined radiactive-convective electric space heater. 4,682,009, 7-21-87, Cl. 219-377.000.

Meishintoryo Co. Ltd.: *See*—
Adachi, Toshio, 4,684,673, Cl. 523-116.000.
Shiotsu, Tatsumi, 4,677,140, Cl. 523-116.000.

Meisinger, Stanlee W.; and Welch, Daniel P., to FasTest, Inc. Externally threaded quick connect coupling having integral fluid pressure assisted seal. 4,688,830, 8-25-87, Cl. 285-100.000.

Meiske, Larry A.: *See*—
Fuentes, Ricardo, Jr.; Marchand, Gary R.; and Meiske, Larry A., 4,661,465, Cl. 502-111.000.

Meisner, Alfred: *See*—
Arnold, Werner; Grasser, Hans; Kruger, Tilmann; and Meisner, Alfred, 4,684,261, Cl. 368-107.000.

Meisner, David J.: *See*—
Genovese, John S.; Grazul, Edwin C.; Meisner, David J.; and Wright, Francis M., 4,664,982, Cl. 428-447.000.

Meisner, Douglas: *See*—
Rice, Mark; and Meisner, Douglas, 4,692,006, Cl. 354-75.000.

Meisner, Edward O.; and Romine, Charles F., to Eagle-Picher Industries, Inc. Valve stem seal. 4,695,061, 9-22-87, Cl. 277-27.000.

Meisner, John W.; and Donelan, Lynn E., to Rockwell International Corporation. High speed induction motor with squirrel cage rotor. 4,644,210, 2-17-87, Cl. 310-211.000.

Meisner, Lorraine F., to Peritain, Ltd. Treatment for tissue degenerative inflammatory disease. 4,647,453, 3-3-87, Cl. 424-54.000.

Meisner, Richard P.: *See*—
Spock, Wayne R.; and Meisner, Richard P., 4,639,885, Cl. 364-574.000.

Meiso Yoko Company, Ltd.: *See*—
Mizutani, Tomoharu, 4,664,719, Cl. 134-6.000.

Meissner, David C.: *See*—
Kaneko, Dentaro; and Meissner, David C., 4,701,214, Cl. 75-38.000.
Summers, Frank V.; Scarlett, John C.; Meissner, David C.; and Hoffman, Glenn E., 4,685,964, Cl. 75-38.000.

Meissner, Horst. Quick clamping apparatus for skis of various widths. 4,653,740, 3-31-87, Cl. 269-252.000.

Meissner, Horst, to Gewerkschaft Eisenhutte Westfalia. Pivot connections for use with mine roof supports. 4,701,079, 10-20-87, Cl. 405-296.000.

Meissner, Ralph; and Popp, Walter, to Siemens Aktiengesellschaft. Nuclear magnetic resonance tomography apparatus. 4,714,887, 12-22-87, Cl. 324-322.000.

Meissner, Ralph: *See*—
Freisen, Ludger; Kess, Helmut; Krause, Norbert; and Meissner, Ralph, 4,701,710, Cl. 324-318.000.

Meissner, Werner; and Schollhammer, Richard, to Zinser Textilmaschinen GmbH. Spinning machine with sliver-feed interrupter. 4,656,822, 4-14-87, Cl. 57-81.000.

Meissner, Werner: *See*—
Nickolay, Helmut; Hack, Kurt; Lattner, Manfred; Meissner, Werner; and Schollhammer, Richard, 4,676,056, Cl. 57-81.000.

Meister, Alton; and Williamson, Joanne M., to Cornell Research Foundation. Cysteine delivery composition. 4,647,571, 3-3-87, Cl. 514-369.000.

Meister, Alton; and Williamson, Joanne M., to Cornell Research Foundation. Cysteine delivery system. 4,665,082, 5-12-87, Cl. 514-365.000.

Meister, Alton, to Cornell Research Foundation, Inc. Glutathione delivery system. 4,710,489, 12-1-87, Cl. 514-18.000.

Meister, Hans U.: *See*—
Ruegg, Christoph; Voirol, Peter; Fuchs, Willi; and Meister, Hans U., 4,715,739, Cl. 403-30.000.

Meister, John J.; and Patil, Damodar R., to Southern Methodist University. Water soluble graft copolymers of lignin-(2-propenamide)-(sodium 2,2-dimethyl-3-imino-4-oxohex-5-ene-1-sulfonate), methods of making the same and uses therefor. 4,687,828, 8-18-87, Cl. 527-400.000.

Meister, Klaus: *See*—
Meyers, Pierre; and Meister, Klaus, 4,706,084, Cl. 340-825.310.

Meister, Pierre-Andre , to Eta S.A. Fabriques d'Ebauches. Electronic timepiece with analog display comprising a seconds indicator member. 4,684,262, 8-4-87, Cl. 368-157.000.

Meister, Pierre-Andre; Schmidli, Pierre; and Soltermann, Bertrand, to ETA S.A. Fabriques d'Ebauches. Electronic watch having two motors and comprising means for perpetually indicating the day of the month. 4,695,168, 9-22-87, Cl. 368-31.000.

Meister, Siegfried. Apparatus for the steam treatment of foods. 4,641,630, 2-10-87, Cl. 126-20.000.

Meister, Siegfried. Process and apparatus for the heat treatment of meals. 4,698,487, 10-6-87, Cl. 219-506.000.

Meistergram, Inc.: *See*—
Toman, George M., 4,682,551, Cl. 112-103.000.

Meistrell, Robert F. Head restraint. 4,707,031, 11-17-87, Cl. 297-393.000.

Meistrell, Robert W., to Dive N'Surf, Inc. Headband attachable to spectacles frame stems. 4,692,002, 9-8-87, Cl. 351-156.000.

Meistrell, William R., to Dive N'Surf, Inc. Adjustably wrappable, stretchable strap for shin guard. 4,700,406, 10-20-87, Cl. 2-22.000.

Meistrell, William R., to Dive N'Surf, Inc. Liquid pack and retention device therefor. 4,706,673, 11-17-87, Cl. 128-402.000.

Meistrick, Zdenek S.; and Price, Robert B., to Jacobs Manufacturing Company, The. Hydro-mechanical overhead for internal combustion engine. 4,664,070, 5-12-87, Cl. 123-21.000.

Meistrick, Zdenek S.; and Quenneville, Raymond N., to Jacobs Manufacturing Company, The. Compression release retarder with valve motion modifier. 4,706,624, 11-17-87, Cl. 123-321.000.

Meistrick, Zdenek S.; and Price, Robert B., to Jacobs Manufacturing Company, The. Engine retarder with reset auto-lash mechanism. 4,706,625, 11-17-87, Cl. 123-321.000.

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Meith, Hugo C.; and McHugh, Stanley A., to Energy Technology, Inc. Air preheater system. 4,693,233, 9-15-87, Cl. 126-117.000.

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Floyd, David T.; Shanklin, Garry L.; Lynch, Gordon E.; and Meitner, Gary H., 4,683,001, Cl. 106-3.000.

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Asai, Masaki, 4,690,381, Cl. 254-394.000.

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Schindl, Klaus P.; Meitz, Franz; and Salzmann, Kurt, 4,711,537, Cl. 350-531.000.

Meitzler, Allen H.; and Saloka, George S., to Ford Motor Company. Composite light pickup device. 4,645,975, 2-24-87, Cl. 315-82.000.

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Meives, Otis E.; and Lutzke, Anthony, to Pemco, Inc. Method and apparatus for confining wrapped reams of paper sheets in cardboard boxes. 4,683,705, 8-4-87, Cl. 53-462.000.

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Pettke, Felix; Siwon, Hans; and Meixner, Hans, 4,716,294, Cl. 250-353.000.

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Giebel, Wolfgang; and Meixner, Heinrich, 4,707,200, Cl. 156-48.000.

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Mekosh, George, Jr., to Budd Company, The. Pair of stacked springs for a railway car. 4,688,777, 8-25-87, Cl. 267-141.100.

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Prindle, Duane L., 4,672,385, Cl. 343-766.000.

Melahn, Raymond A. Emergency supply container. 4,655,418, 4-7-87, Cl. 244-138.00R.

Melamed, Myron R.: *See*—
Fradet, Yves; Cordon-Cardo, Carlos; Whitemore, Willet F., Jr.; Melamed, Myron R.; Old, Lloyd J.; and Lloyd, Kenneth O., 4,643,971, Cl. 435-240.000.

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Melan, Corneille: *See*—
Legille, Edouard; and Melan, Corneille, 4,688,773, Cl. 266-281.000.

Melan, Michael: *See*—
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Meland, Bruce C. Automatic thermostatic control system for heater and evaporative cooler. 4,673,028, 6-16-87, Cl. 165-19.000.

Meland, Ronald F.: *See*—
Berfield, Robert C.; Crevling, R. Lent, Jr.; Meland, Ronald F.; and Fegan, Richard M., 4,658,458, Cl. 15-49.00C.
Berfield, Robert C.; and Meland, Ronald F., 4,683,608, Cl. 15-328.000.

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; and Watson, Richard C., to GTE Products Corpo- amic heating devices with welded leads. 4,713,529, 541.000.

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G., to SGS-ATES Deutschland Halbleiter/- bH. Series voltage regulator with limited current low input voltages. 4,704,572, 11-3-87, Cl.

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Melcher, Franz-Josef; and Oldendorf, Christian, 177-165.000.
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Meliga, Mauro. Bending machine for pipes, sections and similar. 4,653,301, 3-31-87, Cl. 72-175.000.
Meligne, Patrick: *See*—
Solomon, Ionel; Meot, Jacques; and Meligne, Patrick, 4,634,826, Cl. 219-69.00M.
Melikov, Semen G.: *See*—
Alexandrov, Adolf M.; Vasiliev, Evgeny G.; Iskanderov, Alexandr A.; Magdenko, Vladimir S.; Melikov, Semen G.; Avsharov, Eduard R.; Tsimbler, Jury A.; and Presnyakov, Vladimir I., 4,711,182, Cl. 104-283.000.
Melillo, Gaetano, to Laboratorio Farmaceutico Lafarma S.a.S., a part interest. Capsules containing the active principle of an allergen, and process for their preparation. 4,681,752, 7-21-87, Cl. 424-453.000.
Melis, Egon: *See*—
Harhoff, Karl; and Melis, Egon, 4,714,154, Cl. 198-514.000.
Melis, Florentinus; Verbergt, Jan; and Van Rooy, Willy, to Coal-O-Matic PVBA. Lighter for stove, open hearth and similar. 4,649,260, 3-10-87, Cl. 219-267.000.
Meliss Company: *See*—
Hambrick, John L.; and Poirot, Ralph G., 4,645,380, Cl. 405-220.000.
Melita Electronic Labs, Inc.: *See*—
Szlam, Aleksander, 4,677,663, Cl. 379-211.000.
Melka, Milan: *See*—
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Melker, Richard J., to University of Florida. Emergency cricothyrotomy system and cricothyrotomy kit. 4,677,978, 7-7-87, Cl. 128-207.140.
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van de Ven, Martinus J. M.; and Provily, Zeger, 4,647,465, Cl. 426-570.000.
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Uiterwaal, Dirk J. D.; and Hersevoort, Aart, 4,710,387, Cl. 426-72.000.
Mellander, Hugo; Nilsson, Stefan; Warner, Charles Y.; Wille, Milton G.; and Koch, Magnus, to AB Volvo. Load-sensing faceform for crash dummy instrumentation. 4,691,556, 9-8-87, Cl. 73-12.000.
Mellard, George K. Marbles counter weighted repeating mouse trap. 4,706,408, 11-17-87, Cl. 43-69.000.
Melle, Antonio: *See*—
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Melle, Carl A.: *See*—
Das, Balbhadra; Temple, Chester S.; and Melle, Carl A., 4,637,956, Cl. 428-391.000.
Meller, Bruce T.; Manley, Michael T.; and Stulberg, Bernard N., to Cleveland Clinic Foundation, The. Core sampling apparatus. 4,696,308, 9-29-87, Cl. 128-754.000.
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Meller, Yehuda, to State of Israel, Ministry of Defence, Israel Military Industries, The. Signal flare cartridge. 4,711,047, 12-8-87, Cl. 42-1.150.
Mellert, Erwin, to Ledermann GmbH & Co. Milling cutter having interchangeable cutter blades. 4,652,182, 3-24-87, Cl. 407-48.000.
Melles Griot, Irvine Company: *See*—
Inman, Scott; and Enright, Mitchell K., 4,706,788, Cl. 188-378.000.
Melles Griot, San Marcos Company: *See*—
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Mellet, Robert. Process and apparatus for obtaining a gaseous stream containing a compound in the vapor state, more particularly usable for introducing this compound into an epitaxy reactor. 4,704,988, 11-10-87, Cl. 118-726.000.
Mellgren, Per-Gustaf, to Forest Engineering Research Institute of Canada. Forwarder. 4,639,186, 1-27-87, Cl. 414-734.000.
Mellgren, Per-Gustaf, to Forest Engineering Research Institute of Canada. Feller-forwarder. 4,653,555, 3-31-87, Cl. 144-3.00D.
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Chow, Hector; Melling, Hugh; and Schieltz, Denise S., 4,633,861, Cl. 128-305.000.
Chow, Hector; Melling, Hugh; and Schieltz, Denise S., 4,633,874, Cl. 128-334.00R.
Melling, Peter J.: *See*—
Wielonski, Roy F.; and Melling, Peter J., 4,704,299, Cl. 427-38.000.
Melloni, Paolo: *See*—
Fossati, Paolo; and Melloni, Paolo, 4,646,304, Cl. 371-38.000.
Mellor, David W.: *See*—
Burchell, Steven P.; Kerley, Nicholas W.; and Mellor, David W., 4,658,601, Cl. 62-514.00R.
Mellott, John A. Shelter structure. 4,677,796, 7-7-87, Cl. 52-73.000.
Mellsjo, Carl G. Heat exchanger with helical fluid flow. 4,697,636, 10-6-87, Cl. 165-156.000.
Mellum, Lowell C.; and Podgorski, Theodore J., to Honeywell Inc. Cathode construction for a laser. 4,672,623, 6-9-87, Cl. 372-87.000.
Melman, Haim, to Elscint Ltd. System and methods for improving video camera performance. 4,638,355, 1-20-87, Cl. 358-111.000.

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Melman, Paul: *See*—
Carlsen, W. John; and Melman, Paul, 4,685,773, Cl. 350-401.000.
Eicher, Elliot; Melman, Paul; and Cook, Kenneth, 4,714,346, Cl. 356-349.000.

Melmon, Gary A.: *See*—
Lindow, James T.; Bennett, Simon D.; Smith, Ian R.; and Melmon, Gary A., 4,689,491, Cl. 250-572.000.

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Goodman, Murray; Marr-Leisy, Debra; Rosenkranz, Roberto P.; Melmon, Kenneth L.; and Verlander, Michael S., 4,687,873, Cl. 560-28.000.

Melnik, Joseph D.: *See*—
Remz, Harvey M.; Gordon, Philip J.; Cunningham, John D.; and Melnik, Joseph D., 4,712,571, Cl. 132-88.700.

Melnikov, Leonid I.: *See*—
Gradoboev, Vladimir T.; Sitnikov, Alexandr E.; Klimenov, Alexandr M.; and Melnikov, Leonid I., 4,690,267, Cl. 198-396.000.

Melocik, Grant C., to Caterpillar Industrial Inc. Vehicle docking apparatus and method. 4,659,970, 4-21-87, Cl. 318-269.000.

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Melody, Brian; and Eickelberg, Ernest W., to Emhart Industries, Inc. Method of making electrolytic capacitor anodes. 4,664,883, 5-12-87, Cl. 419-2.000.

Melody, David P.: *See*—
Harris, Stephen J.; McKervey, M. Anthony; Melody, David P.; Woods, John; and Rooney, John M., 4,636,539, Cl. 523-214.000.

Melov, Martin; and Walsh, Francis C. Golfer's stance positioning device. 4,657,258, 4-14-87, Cl. 273-187.00R.

Meloy, Gilbert K., to Twinoak Products, Inc. Cleaning and disinfecting method and article of manufacture including color display. 4,668,475, 5-26-87, Cl. 422-37.000.

Meloy Laboratories, Inc.: *See*—
Olson, Douglas R.; Harness, James R.; and Waterston, John W., 4,639,419, Cl. 435-5.000.
Terranova, Victor P.; Wikesjo, Ulf M. E.; Genco, Robert J.; Hic, Susanne; and Lyall, Raymond M., 4,702,734, Cl. 604-54.000.

Meloy, Thomas P. Apparatus for analysis of particulate material. 4,704,911, 11-10-87, Cl. 73-865.500.

Melpolder, Frank W.; and Victor, James G. Composition and probe for detection of water. 4,699,885, 10-13-87, Cl. 436-39.000.

Melpolder, John B.: *See*—
Friends, Gary D.; Melpolder, John B.; Kunzler, Jay F.; and Park, Joon S., 4,652,622, Cl. 526-279.000.

Melrose, Clayton: *See*—
Anderson, Jack F.; and Melrose, Clayton, 4,660,649, Cl. 172-2.000.

Melrose, Richard C.; and McIntosh, Lionel D., to Environmental Tectonics Corporation. Digital IR gas analyzer. 4,678,914, 7-7-87, Cl. 250-343.000.

Melrose, Robert G. Traveller control for sailcraft. 4,651,668, 3-24-87, Cl. 114-204.000.

Mels, Sherman J.; Petrie, Brian C.; and Pokusa, Richard J., to Sherwin-Williams Company, The. Process for electrocoating water reducible quaternary ammonium salt containing polymers. 4,668,360, 5-26-87, Cl. 204-181.700.

Meltex Verbindungs-Technik GmbH: *See*—
Regge, Klaus-Dieter, 4,667,084, Cl. 219-301.000.

Melton, Carl W.; Thompson, Dale G.; Vassamillet, Larry F.; and Wickersham, Charles E., to Battelle Development Corporation. Cubic boron nitride preparation. 4,683,043, 7-28-87, Cl. 204-192.150.

Melton, Florence. Portable exercise device. 4,705,270, 11-10-87, Cl. 272-93.000.

Melton, Keith N., to Raychem Corporation. Nickel-titanium-base shape-memory alloy composite structure. 4,654,092, 3-31-87, Cl. 148-402.000.

Melton, Melvin M. Animal trap. 4,706,407, 11-17-87, Cl. 43-69.000.

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Nelsen, Christopher P.; and Melton, Robert L., 4,683,753, Cl. 73-655.000.

Meltsch, Hans-Juergen, to Siemens Aktiengesellschaft. Splice protective insert for cable sleeves. 4,656,316, 4-7-87, Cl. 174-92.000.

Meltsch, Hans-Jurgen, to Siemens Aktiengesellschaft. Insert for a cable sleeve and method for the production thereof. 4,639,546, 1-27-87, Cl. 174-92.000.

Meltz, Clifford N.: *See*—
Chang, Ping W.; Gruetzmacher, Gordon D.; Meltz, Clifford N.; and Totino, Rocco A., 4,708,974, Cl. 523-130.000.

Meltz, Gerald: *See*—
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Meltzer, Clifford B.; Kannan, Krishnamurthi; Burket, Thomas G.; Kruesi, Deborah J.; and Braudaway, Gordon W., to International Business Machines Corporation. Protocol for handling transmission errors over asynchronous communication lines. 4,712,214, 12-8-87, Cl. 371-32.000.

Melugin, Simeon A., to Lamcor, Inc. Shaft restraining device. 4,647,229, 3-3-87, Cl. 384-434.000.

Melville, Douglas F., Jr.: *See*—
MacConkey, James S.; Melville, Douglas F., Jr.; and Sharkany, Edward J., 4,644,944, Cl. 128-132.00D.

Melville, James A.: *See*—
Johnson, Ronald R.; and Melville, James A., 4,667,258, Cl. 360-99.000.

Melville, James B., to Lever Brothers Company. Perfume depositing detergents containing perfume in a particulate matrix of a cationic compound. 4,636,330, 1-13-87, Cl. 252-174.110.

Melville, Judith B.; and De Simone, Richard E., to Amoco Corporation. Selective ethylation of xylene with a metal-modified, crystalline borosilicate molecular sieve. 4,652,691, 3-24-87, Cl. 585-467.000.

Melvin, Alec, to British Gas Corporation. Seismic pulse generator. 4,667,766, 5-26-87, Cl. 181-113.000.

Melvin, George E.: *See*—
Burgess, Allan C.; Lussow, Robert O.; and Melvin, George E., 4,649,417, Cl. 357-80.000.

Melvin, Lawrence S., to Pfizer Inc. Tricyclic oxindole antiinflammatory agents. 4,695,571, 9-22-87, Cl. 514-275.000.

Melvin, Lawrence S., Jr., to Pfizer Inc. Oxindole antiinflammatory agents. 4,644,005, 2-17-87, Cl. 514-338.000.

Melvin, Lawrence S., Jr., to Pfizer Inc. Oxindole antiinflammatory agents. 4,686,224, 8-11-87, Cl. 514-275.000.

Melvin, Lawrence S., Jr.: *See*—
Eggler, James F.; Johnson, Michael R.; and Melvin, Lawrence S., Jr., 4,642,373, Cl. 560-139.000.
Eggler, James F.; Johnson, Michael R.; and Melvin, Lawrence S., Jr., 4,680,404, Cl. 546-269.000.

Melvin, Terence; and Nesbitt, R. Dennis, to Spalding & Evenflo Companies, Inc. Optical brighteners in golf ball covers. 4,679,795, 7-14-87, Cl. 273-235.00R.

Melvin, Terence: *See*—
Molitor, Robert P.; Melvin, Terence; Nealon, John L.; and Dreifus, David W., 4,674,751, Cl. 273-235.00R.

Melvin, Terrence: *See*—
Molitor, Robert P.; and Melvin, Terrence, 4,650,193, Cl. 273-228.000.

Melvin, Thomas E. Suspension of objects. 4,651,961, 3-24-87, Cl. 248-293.000.

Melvin, William S.; Betts, Robert E.; and Thorn, Lawrence B., to United States of America, Army. Chemical releasing flash suppressor. 4,642,983, 2-17-87, Cl. 60-219.000.

Melvin, William S.: *See*—
Betts, Robert E.; Melvin, William S.; and Thorn, Lawrence B., 4,649,702, Cl. 60-253.000.

Melyepitesi Tervezo Vallalat: *See*—
Csorba, Istvan; Szekely, Lajos; and Bodas, Sandor, 4,642,987, Cl. 60-641.200.

Melzer, Jaroslav: *See*—
Appl, Max; Goesele, Wilhelm; Melzer, Jaroslav; Schreiner, Siegfried; and Treiber, Gert, 4,676,961, Cl. 423-265.000.
Bergold, Wolfram; and Melzer, Jaroslav, 4,664,844, Cl. 252-358.000.

Melzer, Milena; Roller, Hermann; Schneider, Norbert; Fitterer, Horst; and Munzner, Wulf, to BASF Aktiengesellschaft. Production of magnetic recording media possessing a backing coating, and magnetic recording media thus produced. 4,645,723, 2-24-87, Cl. 428-694.000.

Melzer, Milena: *See*—
Kohl, Albert; Melzer, Milena; Lehner, August; Schneider, Norbert; Koester, Eberhard; Balz, Werner; Sommermann, Friedrich; and Ricker, Ernst, 4,668,586, Cl. 428-411.100.

Melzer, Rudolf: *See*—
Kemmerer, Klemens; Gensheimer, Valentin; and Melzer, Rudolf, 4,693,362, Cl. 198-803.700.

Melzi, Carlo; and Gregorutti, Paolo, to Acciaierie Weissenfels S.p.A. Antiskid device for motor vehicle tires. 4,648,434, 3-10-87, Cl. 152-213.00A.

Membrain Limited: *See*—
Crane, Michael P.; and Marsh, David J., 4,638,481, Cl. 371-27.000.

Membrino, Hercules. Binder for bag pads. 4,670,083, 6-2-87, Cl. 156-510.000.

Memering, Leroy J., to National Distillers and Chemical Corporation. Vinyl polymer composition and process for making same. 4,668,741, 5-26-87, Cl. 525-229.000.

Memmel, Anton: *See*—
Weber, Robert; and Memmel, Anton, 4,686,794, Cl. 51-59.00R.

Memmel, Lawrence C., to Super Tool and Mfg. Corporation. Apparatus for sensing the position of a structural member. 4,713,592, 12-15-87, Cl. 318-565.000.

Memminger GmbH: *See*—
Fecker, Josef, 4,662,575, Cl. 242-47.010.
Kuhn, Falk, 4,633,684, Cl. 66-104.000.
Kuhn, Falk; and Buck, Alfred, 4,688,401, Cl. 66-141.000.
Memminger, Gustav; and Fecker, Josef, 4,651,938, Cl. 242-54.00R.

Memminger, Gustav; and Fecker, Josef, to Memminger GmbH. Elastometric yarn or thread supply apparatus for textile machines, particularly knitting machines. 4,651,938, 3-24-87, Cl. 242-54.00R.

Memminger, Gustav; and Roser, Erich, to Memminger, Gustav. Textile machinery yarn supply apparatus. 4,673,139, 6-16-87, Cl. 242-47.010.

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Memminger, Gustav; Roser, Erich; and Kuhn, Falk, to Memminger, Gustav. Yarn supply apparatus for textile machines especially circular knitting machines. 4,706,476, 11-17-87, Cl. 66-132.00R.

Memminger, Gustav: *See*—
Roser, Erich; and Memminger, Gustav, 4,660,783, Cl. 242-155.00R.
Roser, Erich; and Memminger, Gustav, 4,669,677, Cl. 242-47.010.

Memmola, Serafino, to Delta Elettronica s.r.l. Bowden cable. 4,683,774, 8-4-87, Cl. 74-501.00R.

Memorex Corporation: *See*—
Chung, Fred C.; and Clark, Ross P., 4,659,627, Cl. 428-447.000.
El-Sadi, Ashraf I., 4,642,541, Cl. 318-616.000.

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Mendicino, Franco: *See*—
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Mendiratta, Ashok K.; and Morgan, Wayne F., to General Electric Company. Continuous method for isolating polymer resin from solution wherein organic solvent resin solution is fed into aqueous feed. 4,634,761, 1-6-87, Cl. 528-500.000.
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Mendleski, Ronald J. Miniature coaxial lighting assembly. 4,646,214, 2-24-87, Cl. 362-294.000.
Mendonsa, Alvin A.; and Eshoff, Donald D. Clarinet stand. 4,695,022, 9-22-87, Cl. 248-176.000.
Mendoza, Abel, to Dow Chemical Company, The. Process for the preparation of tribrom- tetramethylbiphenol and related compounds. 4,654,447, 3-31-87, Cl. 568-730.000.
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Mendoza, Fausto C. System for preparing tortillas. 4,715,272, 12-29-87, Cl. 99-339.000.
Mendoza, Jesse M. Fishing pole holder. 4,658,533, 4-21-87, Cl. 43-21.200.
Mendoza, Michael F.: *See*—
Marts, Maynard W.; and Mendoza, Michael F., 4,666,125, Cl. 251-129.190.
Mendoza Rosado, Serafin. Thermodynamic process for a practical approach to the Carnot cycle. 4,691,523, 9-8-87, Cl. 60-649.000.
Mendres, Donald N. Floating resilient skeletal chameleon-like audible helix for bicycle. 4,708,399, 11-24-87, Cl. 301-37.0SA.
Mendy, Francois; and Barthelemy, Pierre, to Roussel-Uclaf. Oxidized triglycerides having therapeutic utility. 4,701,468, 10-20-87, Cl. 514-547.000.
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Meneely, Vincent A. Anti-lash adjuster. 4,655,178, 4-7-87, Cl. 123-321.000.
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Menegatto, Carlo. Spindle braking device. 4,662,165, 5-5-87, Cl. 57-88.000.
Menell, Hans; Ringhoff, Hubert; and Rump, Jurgen, to Continental Gummi-Werke Aktiengesellschaft. Tire build-up machine. 4,711,691, 12-8-87, Cl. 156-415.000.
Menell, Hans: *See*—
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Menelly, Richard A. Solar energy storage cell. 4,712,606, 12-15-87, Cl. 165-1.000.
Menendez, Rita J. Food carrier assembly. 4,694,961, 9-22-87, Cl. 206-508.000.
Menesguen, Anne: *See*—
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Menet, Frederick P.: *See*—
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Menezes, Edgar: *See*—
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Meng, Sen Y., to Rockwell International Corporation. Shrouded inducer pump. 4,708,584, 11-24-87, Cl. 415-53.00R.
Mengel, Hans-Eckhard: *See*—
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Mengel, Peter: *See*—
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Mengel, William F., to F. F. Mengel Company. Apparatus and method for removing pavement. 4,692,058, 9-8-87, Cl. 404-72.000.

Mengel, William H., to RCA Corporation. Auxiliary control unit for a television receiver. 4,651,342, 3-17-87, Cl. 455-151.000.

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Menges, Horst, to Rheinmetall GmbH. Arrangement for stopping the moving parts of a machine cannon having an external drive. 4,699,040, 10-13-87, Cl. 89-11.000.

Mengual, Christian: *See*—
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Menhusen, Monty J. Hand held combination flush with adjustable nozzle and/or suction apparatus. 4,696,669, 9-29-87, Cl. 604-34.000.

Menicagli, Ivano. Attachment for a partial, removable, dental prothesis. 4,698,020, 10-6-87, Cl. 433-177.000.

Menich, Barry J.; and Atkinson, Frederick G., to Motorola, Inc. Method and apparatus for signal strength measurement and antenna selection in cellular radiotelephone systems. 4,704,734, 11-3-87, Cl. 455-33.000.

Menich, Barry J.: *See*—
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Menichetti, Alberto, to Gebruder Hoffman A/G. Plastic closure for bottles and the like. 4,645,088, 2-24-87, Cl. 215-329.000.

Meniconi, Silvio: *See*—
Fusi, Gaetano; and Meniconi, Silvio, 4,677,935, Cl. 118-108.000.

Menigat, Roland; and Gruppenbacher, Klaus, to Hofmann Werkstatt-Technik GmbH. Method of continuous compensation of unbalance present in a rotor and in particular in a grinding wheel. 4,637,171, 1-20-87, Cl. 51-281.00R.

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Menigaux, Louis; and Sansonetti, Pierre. Process for manufacturing a semiconductor laser having a buried ribbon. 4,648,940, 3-10-87, Cl. 156-649.000.

Menin, Jacques: *See*—
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Menini, Giulio: *See*—
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Menke, Andrew: *See*—
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Menke, Jeffery W.; and Riediger, Craig W., to Caterpillar Inc. Vehicle boom lock. 4,636,132, 1-13-87, Cl. 414-694.000.

Menke, John M.: *See*—
Whyzmuzis, Paul D.; and Menke, John M., 4,683,262, Cl. 524-608.000.

Menke, Ronald: *See*—
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Menke, W. Kenneth: *See*—
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Menley & James Laboratories, Ltd.: *See*—
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Menne, Rudolf: *See*—
Cloke, Martin; Horton, Michael; Menne, Rudolf; and Stwiorok, Andreas, 4,706,622, Cl. 123-306.000.

Mennemann, Karl; and Grabowski geb. Marszalek, Danuta, to Schott Glaswerke. Optical glass with refractive indexes of 1.60–1.69 and Abbe numbers of at least 54 with particularly low density and particularly good chemical stability. 4,642,297, 2-10-87, Cl. 501-78.000.

Mennicken, Gerhard: *See*—
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Mennie, Douglas U.: *See*—
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Mennie, John; Troglio, Donald L.; and Zielinski, Larry E., to Wheeling Stamping Company. Packaging machine and method. 4,713,926, 12-22-87, Cl. 53-443.000.

Menniti, Pietro; and Marchio, Fabio, to SGS Microelettronica S.p.A. Voltage regulator for an alternator having an auxiliary stage for starting the alternator at a low rotational speed. 4,695,786, 9-22-87, Cl. 323-303.000.

Menniti, Pietro; and Alzati, Angelo, to SGS Microelettronica S.p.A. Monolithically integratable control circuit having a push-pull output stage for the switching of inductive loads. 4,700,282, 10-13-87, Cl. 363-56.000.

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Meno, Frank. Segmented fret electronic musical instrument. 4,635,518, 1-13-87, Cl. 84-1.160.

Meno, Frank, to University of Pittsburgh. Electronic musical instrument. 4,677,419, 6-30-87, Cl. 338-296.000.

Meno, Frank, to University of Pittsburgh. Vector electronic control device. 4,694,279, 9-15-87, Cl. 340-347.00P.

Menocal, Serafin G. Isothermally heatsunk diffusion cloud chamber refrigerator. 4,662,180, 5-5-87, Cl. 62-3.000.

Menon, Govind K.; and Sanders, Winfred J., to SmithKline Beckman Corporation. Feed compositions containing 2-(α-pyridyl)-Δ^2-heterocyclic compounds. 4,680,304, 7-14-87, Cl. 514-340.000.

Menon, Vinod; and Kaku, Shinkyo, to Advanced Micro Devices, Inc. Speed-up method and apparatus for two-dimensional facsimile coding and decoding. 4,716,467, 12-29-87, Cl. 358-260.000.

Menor, George, to Siemens Medical Laboratories, Inc. Filter adjustment system for use in electronic accelerators and the like. 4,642,572, 2-10-87, Cl. 328-228.000.

Menown, Hugh, to English Electric Valve Company Limited. Thyratron having anode and multiple grids. 4,703,226, 10-27-87, Cl. 313-595.000.

Menown, Hugh: *See*—
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Maitland, Arthur; Menown, Hugh; Strudwick, Ian A.; Weatherup, Clifford R.; and Carman, Robert J., 4,698,546, Cl. 313-446.000.

Menqi, Genevray C., to N. Schlumberger & Cie. Backbone inner guiding device for splitting butchery animals. 4,667,368, 5-26-87, Cl. 17-23.000.

Menrath, Albert: *See*—
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Mensah, Thomas O.; and Powers, Dale R., to Corning Glass Works. Curing apparatus for coated fiber. 4,636,405, 1-13-87, Cl. 427-54.100.

Mensah, Thomas O.; Powers, Dale R.; and Burton, Clement D., to Corning Glass Works. Apparatus and method for monitoring tension in a moving fiber by Fourier transform analysis. 4,692,615, 9-8-87, Cl. 250-231.00R.

Mensch, William D., Jr. Topography of integrated circuit CMOS microprocessor chip. 4,652,992, 3-24-87, Cl. 364-700.000.

Mensies, Otto: *See*—
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Mensink, Kornelis A.; and Brouwer, Hendrik L., to Vitafin N.V. Pacemaker with switchable circuits and method of operation of same. 4,665,919, 5-19-87, Cl. 128-419.0PG.

Mente, Donald C.: *See*—
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Mente, Kurt, to J. H. Benecke GmbH. Apparatus for spreading out a plurality of filaments. 4,637,104, 1-20-87, Cl. 28-283.000.

Menth, Anton: *See*—
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Mentor Corporation: *See*—
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Conway, Anthony J.; Conway, Peter R.; and Conway, Philip J., 4,638,790, Cl. 128-138.00R.
Hauser, Thomas M., 4,640,688, Cl. 604-352.000.
Masters, Gene P., 4,669,456, Cl. 128-79.000.
Smith, Gregory M.; Coe, Frederick L.; and Dormandy, Ray H., Jr., 4,666,447, Cl. 623-8.000.

Mentor O & O, Inc.: *See*—
Reimels, Harry G., 4,693,246, Cl. 128-321.000.
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Mentrup, Anton: *See*—
Schromm, Kurt; Mentrup, Anton; Renth, Ernst-Otto; Fugner, Armin; and Streller, Ilse, 4,647,563, Cl. 514-234.000.

Mentzell, Walter J. Load testing. 4,643,031, 2-17-87, Cl. 73-862.560.

Mentzer, Nancy E.: *See*—
Brown, David S.; Forry, John S.; Mentzer, Nancy E.; and Misselhorn, Donald J., 4,676,937, Cl. 264-42.000.

Mentzer, Ronald B.: *See*—
Fredriksen, Herbert A.; Walter, Richard K.; and Mentzer, Ronald B., 4,662,004, Cl. 455-607.000.

Mentzer, William R., to Kidde, Inc. Crane boom locking pin insertion indicator and actuator means. 4,635,805, 1-13-87, Cl. 212-230.000.

Mentzer, William R., to Kidde, Inc. Telescoping crane boom with locking and indicator means. 4,664,272, 5-12-87, Cl. 212-267.000.

Menz, Hans-Udo: *See*—
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Menz, William: *See*—
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Menzel, Hartmut: *See*—
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Menzel, Josef, to Lindauer Dornier Gesellschaft mbH. Device for securing an exchangeable member to a carrier in a shuttleless loom. 4,699,183, 10-13-87, Cl. 139-449.000.

Menzel, Stanley W. O., to Rib Loc Hong Kong Limited. Method of and means for forming and sealing helically wound tubes. 4,687,690, 8-18-87, Cl. 428-36.000.

Menzel, Waldemar, to Lumen GmbH Nahrmittel - und Maschinenfabrik. Apparatus for the preparation of ice cream, milkshakes, sorbet, frozen desserts and the like from a pumpable starting mixture. 4,680,944, 7-21-87, Cl. 62-342.000.

Menzemer, Craig C.: *See*—
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Menzies, Richard G.: *See*—
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I., to Lockheed Missiles and Space Company, Inc. prism systems. 4,704,008, 11-3-87, Cl. 350-420.000.
I., to Lockheed Missiles & Space Company, Inc. tographic objective color-corrected at four wave- 1, 11-3-87, Cl. 350-467.000.
., to Lockheed Missiles & Space Company, Inc. Lens rrected for visible and near-infrared wavelengths. 87, Cl. 350-482.000.
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Strengthening a matrix. 4,662,946, 5-5-87, Cl. 106-
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Crouch, Bill W.; Sauer, William F.; and Zylka, Kenneth R., 4,649,695, Cl. 53-431.000.
Poenitsch, Rick W., 4,649,910, Cl. 128-165.000.

Meridian Medical Corporation: *See*—
Babb, Albert L.; and Hlastala, Michael P., 4,671,298, Cl. 128-719.000.

Meridionale de Laminage Continu Solmer: *See*—
Badinier, Christian; Louhichi, Alain; Annichini, Andre; and Dufour, Alain, 4,675,052, Cl. 134-8.000.

Merijanian, Aspet V.: *See*—
Johnson, Constance A.; and Merijanian, Aspet V., 4,663,237, Cl. 428-500.000.

Merilainen, Pekka; and Toikka, Osmo, to Instrumentarium Corp. Quick response paramagnetic analyzer for measurement of oxygen contents of gases. 4,633,705, 1-6-87, Cl. 73-27.00A.

Meritcraft Ltd.: *See*—
Hulse, Anthony J.; Hulse, Neville G.; and Egan, Terence, 4,635,692, Cl. 144-286.00R.

Meritex S.r.l.: *See*—
Conti, Paolo; Conti, Gianni; Garibaldi, Franco; and Manini, Benito, 4,689,971, Cl. 66-25.000.

Meriwether, Jon D., to Follansbee Steel Corporation. Hinge connector for floating dock. 4,683,833, 8-4-87, Cl. 114-267.000.

Merk, Hans: *See*—
George, Ulf; Rochau, Erwin; Merk, Hans; and Behnke, Joachim, 4,661,612, Cl. 556-450.000.

Merk, Robert H.: *See*—
Brewer, Richard A.; Merk, Robert H.; and Orndorff, Gary J., 4,643,904, Cl. 426-549.000.
Brewer, Richard A.; Merk, Robert H.; and Orndorff, Gary J., 4,697,505, Cl. 99-450.100.

Merk, Wolfgang: *See*—
Nees, Friedbert; Werle, Peter; Reissmann, Gunther; and Merk, Wolfgang, 4,667,044, Cl. 549-539.000.

Merkatoris, John R., to Paper Converting Machine Company. Method and apparatus for making elastic diapers. 4,711,683, 12-8-87, Cl. 156-164.000.

Merkel, Daniel A., to American Orthodontics Corporation. Orthodontic bracket with rhomboidal profile. 4,659,309, 4-21-87, Cl. 433-9.000.

Merkel, Dieter; Muehlthaler, Wolfgang; Diem, Hans; and Matthias, Guenther, to BASF Aktiengesellschaft. Preparation of calcium propionate. 4,700,000, 10-13-87, Cl. 562-606.000.

Merkel, Kurt E.: *See*—
Hershberger, Charles L.; Merkel, Kurt E.; Weeks, Robert E.; and Wild, Gene M., 4,637,981, Cl. 435-75.000.

Merkel, Stephen L., to Nordson Corporation. Dispenser malfunction detector. 4,668,948, 5-26-87, Cl. 340-825.300.

Merkel, Wilfried; and Kolb, Erich, to Robert Bosch GmbH. Windshield wiper device. 4,649,590, 3-17-87, Cl. 15-250.210.

Merker, David E., to Babcock & Wilcox Company, The. Method and apparatus for tube expansion. 4,672,832, 6-16-87, Cl. 72-62.000.

Merkh, Ernst, to H. Stoll GmbH & Co. Knitting expander device for flat bed knitting machines. 4,646,544, 3-3-87, Cl. 66-149.00R.

Merki, Hubert, to Zumbach Electronic AG. Method and apparatus for checking the wall thickness of a layer. 4,641,525, 2-10-87, Cl. 73-432.100.

Merki, Josef: *See*—
Brem, Ernst; and Merki, Josef, 4,638,199, Cl. 310-91.000.

Merkle, Alfred; Moosmann, Georg; and Muller, Rolf, to Papst-Motoren GmbH & Co. KG. Disk drive with internal brake and static discharge. 4,701,653, 10-20-87, Cl. 310-152.000.

Merkle Engineers, Inc.: *See*—
Coates, Stephen J., 4,705,475, Cl. 432-238.000.
James, Barry R., 4,638,617, Cl. 52-474.000.

Merkle, Franz: *See*—
Dirmeyer, Josef; Kathmann, Heinz; Merkle, Franz; Oberberger, Franz; Wilhelm, Walter; and Wimmer, Josef, 4,700,157, Cl. 333-185.000.

Merkle, Josef, to Daimler-Benz Aktiengesellschaft. Independent wheel suspension for a wheel of a vehicle. 4,635,957, 1-13-87, Cl. 280-663.000.

Merkle, Josef, to Daimler-Benz Aktiengesellschaft. Bending bar to be used as a bumper of a vehicle. 4,714,287, 12-22-87, Cl. 293-102.000.

Merkli, Bernhard, to Hoffmann-La Roche Inc. Antimalarial pharmaceutical compositions. 4,696,921, 9-29-87, Cl. 514-157.000.

Merkli, Peter; and Jermann, Daniel, to Grapha-Holding AG. Apparatus for accumulating and transporting stacks of paper sheets and the like. 4,708,561, 11-24-87, Cl. 412-25.000.

Merklinger, William E.; Webster, Daniel; and Kampus, Raymond. Security barrier. 4,671,012, 6-9-87, Cl. 49-55.000.

Merkovsky, Daniel; and Gasparro, Michael R., to Westinghouse Electric Corp. Thimble guide extender. 4,716,004, 12-29-87, Cl. 376-203.000.

Merkt, Robert. Device for producing an installation template for conduits, especially conduits for hydraulic or pneumatic control or process circuits. 4,648,733, 3-10-87, Cl. 403-56.000.

Merkus, Minne, to Robert Bosch GmbH. Apparatus for producing bag packages having dispensing fitments. 4,709,528, 12-1-87, Cl. 53-128.000.

Merl, Milton: *See*—
Mercer, John E.; Kidd, R. Christopher; and Merl, Milton, 4,706,824, Cl. 211-188.000.

Merla, Adriano, to Ilpea S.p.A. Sealing gasket between a door and its related shoulder on a cabinet, in particular of a refrigerator. 4,700,509, 10-20-87, Cl. 49-487.000.

Merle, Etienne; and Genton, Hubert, to Framatome & Cie. Device for the dimensional testing of the center distance bores or of two cylinders. 4,635,056, 1-6-87, Cl. 340-870.360.

Merle, Jean-Pierre: *See*—
Grenier, Gilles; Maffert, Jerome; Merle, Jean-Pierre; and des Ordons, Jacques R., 4,710,028, Cl. 356-375.000.

Merle, Michel: *See*—
Labedan, Jean-Denis; and Merle, Michel, 4,708,498, Cl. 384-560.000.

Merli, Gabriele; and Testi, Termano, to GTE Telecommunicazioni S.p.A. Suppressed-fundamental frequency three-way predistorter. 4,698,597, 10-6-87, Cl. 328-163.000.

Merlin Gerin: *See*—
Baginski, Pierre; and Nebon, Jean-Pierre, 4,649,244, Cl. 200-153.0SC.
Baginski, Pierre; and Nebon, Jean-Pierre, 4,713,508, Cl. 200-153.0SC.
Bartolo, William; De Robertis, Patrick; and Vanzetto, Daniel, 4,687,891, Cl. 200-153.00G.
Bartolo, William; Boillot, Louis; Challande, Rene ; De Robertis, Patrick; Duchenaud, Jacky; and Ramaciotti, Jean-Claude, 4,714,907, Cl. 335-45.000.
Bonniau, Michel; and Schueller, Pierre, 4,660,012, Cl. 335-234.000.
Bonniau, Michel; and Paupert, Marc, 4,663,690, Cl. 361-44.000.
Collombet, Michel, 4,652,815, Cl. 324-73.00R.
Demeyer, Pierre, 4,694,373, Cl. 361-96.000.
Neel, Jean-Philippe; and Trahin, Jean-Pierre, 4,672,157, Cl. 200-144.00R.
Neel, Jean-Philippe; Case, Roger; and Garnier, Gilbert, 4,710,738, Cl. 335-172.000.
Puccinelli, Robert; and Fraisse, Didier, 4,644,438, Cl. 361-75.000.
Terracol, Claude; and Roulet-Dubonnet, Jean-Pierre, 4,695,913, Cl. 361-13.000.

Merlin Gerin S.A.: *See*—
Demeyer, Pierre, 4,689,712, Cl. 361-96.000.
Demeyer, Pierre, 4,710,845, Cl. 361-96.000.

Merlin, Jacques: *See*—
Courcoux, Alain; and Merlin, Jacques, 4,646,556, Cl. 73-4.00R.

Merlino, Paul J.: *See*—
Dadpey, Habib; Merlino, Paul J.; and Shero, David J., 4,697,130, Cl. 318-760.000.

Merlo, Michele. Small size waveguide switching device. 4,665,373, 5-12-87, Cl. 333-106.000.

Merlo, Michele. Incremental optical encoder with a tuned vernier. 4,686,362, 8-11-87, Cl. 250-231.0SE.

Merly, Jean: *See*—
Bigg, Denis; Menin, Jacques; Maloizel, Christian; and Merly, Jean, 4,659,731, Cl. 514-397.000.

Mermelstein, Marc D., to Geo-Centers, Inc. Fiber optic magnetic field sensing transducer having a resonant structure. 4,687,993, 8-18-87, Cl. 324-244.000.

Mermi, Kurt: *See*—
Frischmann, Albert; Mermi, Kurt; and Ziereisen, Peter, 4,676,406, Cl. 222-136.000.
Frischmann, Albert; Rieger, Johannes; Mermi, Kurt; Kistner, Herbert; and Zimmermann, E. Harald, 4,702,654, Cl. 411-31.000.

Mero, Matti: *See*—
Tormala, Pertti; Rokkanen, Pentti; Kilpikari, Jyrki; Patiala, Hannu; Vainionpaa, Seppo; Vihtonen, Kimmo; and Mero, Matti, 4,655,203, Cl. 128-92.0YP.

Mero-Raumstruktur GmbH & Co.: *See*—
Walter, Josef, 4,642,962, Cl. 52-460.000.

MERO-Werke Dr.-Ing Max Mengeringhausen GmbH & Co.: *See*—
Radtke, Manfred, 4,640,854, Cl. 428-35.000.

Merobel - Societe Anonyme Fracaise: *See*—
Neiger, Henri J. C.; Genot, Claude M.; Prud'Hon, Gerard C.; and Schoens, Michel, 4,678,184, Cl. 272-129.000.

Meroni, Roberto; Lant, Danny; Lancerotto, Fabio; and Gerin, Umberto, to S. Bigagli & C. SpA. Procedure and device to change roving packages, with automatic re-attachment of the roving on machines to spin carded wool. 4,651,515, 3-24-87, Cl. 57-261.000.

Meroni, Roberto; Lant, Danny; Lancerotto, Fabio; and Gerin, Umberto, to S. Bigagli & C. SpA. Device to doff yarn packages on ring spinning machines. 4,682,466, 7-28-87, Cl. 57-274.000.

Merrell Dow Pharmaceuticals Inc.: *See*—
Bargar, Thomas M.; Broersma, Robert, Jr.; and McCarthy, James R., 4,703,058, Cl. 514-471.000.
Bey, Philippe; Palfreyman, Michael G.; and McDonald, Ian A., 4,650,907, Cl. 564-509.000.
Donaldson, Richard E.; and Hoops, John F., 4,697,024, Cl. 549-444.000.
Donaldson, Richard E.; and Hoops, John F., 4,701,541, Cl. 549-440.000.
Gerhart, Fritz; and Mamont, Pierre, 4,695,654, Cl. 564-510.000.
Gittos, Maurice W.; and Hibert, Marcel, 4,696,927, Cl. 514-236.000.
Gittos, Maurice W.; and Hibert, Marcel, 4,704,389, Cl. 514-226.000.
Kolb, Michael; and Kendrick, David A., 4,707,498, Cl. 514-671.000.
Liu, Paul S., 4,634,765, Cl. 536-17.400.
McDonald, Ian A., 4,699,928, Cl. 514-649.000.
Schenttler, Richard A.; Jones, Winton D., Jr.; and Claxton, George P., 4,670,450, Cl. 514-341.000.
Schnettler, Richard A.; Jones, Winton D., Jr.; and Claxton, George P., 4,698,353, Cl. 514-340.000.
Shah, Dhiren N.; Hammer, Gregory V.; and Domet, Jack, 4,671,823, Cl. 106-197.100.
Sjoerdsma, Albert, 4,670,459, Cl. 514-401.000.
Vinogradoff, Anna P., 4,644,065, Cl. 548-251.000.
Wright, Terry L., 4,650,872, Cl. 546-119.000.

Merrell, Gene A., to Betz Laboratories, Inc. Method of reducing fireside deposition from the combustion of solid fuels. 4,706,579, 11-17-87, Cl. 110-343.000.

Merrem, Hans J.; Klug, Rudolf; and Herold, Thomas, to Merck Patent Gesellschaft mit beschrankter Haftung. Polyamide ester photoresist formulations of enhanced sensitivity. 4,701,300, 10-20-87, Cl. 430-196.000.

Merrem, Hans J.: *See*—
Thiel, Klaus P.; Sindlinger, Raimund; and Merrem, Hans J., 4,649,101, Cl. 430-326.000.

Merrick, Brian J.: *See*—
Webb, Stephen F.; and Merrick, Brian J., 4,673,449, Cl. 156-94.000.

Merrick, David: *See*—
Anthony, James R.; and Merrick, David, 4,651,946, Cl. 242-107.200.

Merrick, Edwin B.; and Bond, Albert K., to Hewlett-Packard Company. Flush valve device. 4,703,759, 11-3-87, Cl. 128-673.000.

Merrick, Richard H.: *See*—
Baynes, William R.; and Merrick, Richard H., 4,676,221, Cl. 126-41.00R.

Merrick, Stephen P.; and Teichner, Robert W., to Hewlett-Packard Company. Optical isolator fabricated upon a lead frame. 4,694,183, 9-15-87, Cl. 250-551.000.

Merrien, Pierre A.: *See—*
Merrien, Pierre L.; and Merrien, Pierre A., 4,712,601, Cl. 164-150.000.
Merrien, Pierre L.; and Merrien, Pierre A., 4,715,427, Cl. 164-456.000.

Merrien, Pierre L.; and Merrien, Pierre A., to Etude et Development en Metallurgie. Process and apparatus for automating a baking cycle under hot air of sand molds. 4,712,601, 12-15-87, Cl. 164-150.000.

Merrien, Pierre L.; and Merrien, Pierre A., to Etude et Development en Metallurgie. Process and apparatus for automating a baking cycle under hot air of sand molds. 4,715,427, 12-29-87, Cl. 164-456.000.

Merrifield, Charles H.: *See—*
Balke, Roy L.; Merrifield, Charles H.; and Mizikowski, Frank E., 4,710,662, Cl. 310-204.000.

Merrifield, James H.: *See—*
Ostrozynski, Robert L.; Greene, George H.; and Merrifield, James H., 4,640,962, Cl. 525-474.000.

Merril, Carl R., to United States of America, Health and Human Services. Silver stain for rapid, quantitative detection of polypeptides and nucleic acids. 4,703,016, 10-27-87, Cl. 436-86.000.

Merrill, Duane F.: *See—*
Traver, Frank J.; John, Simon M.; and Merrill, Duane F., 4,689,248, Cl. 427-168.000.

Merrill, George O., to Cooper Industries, Inc. Lifting clamp cam wear indicator and method. 4,641,877, 2-10-87, Cl. 294-101.000.

Merrill, Gerard L. Slot cutting machine. 4,653,557, 3-31-87, Cl. 144-136.00R.

Merrill Lynch, Pierce, Fenner & Smith, Inc.: *See—*
Kalmus, Leslie P.; Trojan, Donald R.; Mott, Bradley; and Strampfer, John, 4,674,044, Cl. 364-408.000.

Merrill Lynch Relocation Management, Inc.: *See—*
Hagel, Robert J., Sr.; and Sella, Ronald W., 4,700,297, Cl. 364-408.000.

Merrill, Michael J.: *See—*
Jansson, Peter A.; Merrill, Michael J.; Owens, Daniel K.; and Rubin, Barry, 4,656,663, Cl. 382-8.000.

Merrill, Richard E.; and Allard, Craig L., to Acme United Corporation. Reinforced moisture vapor permeable, pressure-sensitive adhesive wound dressings. 4,638,797, 1-27-87, Cl. 128-156.000.

Merriman, Michael M.: *See—*
Brink, David L.; Merriman, Michael M.; and Mixon, David A., 4,706,903, Cl. 241-188.00R.

Merriman/Yacht Specialties, Inc.: *See—*
Winter, Robert A., 4,646,588, Cl. 74-876.000.

Merrington, Graham: *See—*
Barlow, William A.; and Merrington, Graham, 4,643,125, Cl. 118-402.000.

Merritt, David T., to Otis Engineering Corporation. Side pocket mandrel. 4,673,036, 6-16-87, Cl. 166-117.500.

Merritt, Frederick M., II: *See—*
Brode, George L., II; Kreeger, Russell L.; Goddard, Errol D.; Merritt, Frederick M., II; and Braun, David B., 4,663,159, Cl. 424-70.000.

Merritt, James A.: *See—*
Sharkey, Hubert J.; and Merritt, James A., 4,654,144, Cl. 210-631.000.

Merritt, James S.: *See—*
Culbertson, Samuel W.; and Merritt, James S., 4,643,357, Cl. 239-112.000.

Merritt, John E.: *See—*
Avila, Louis J.; Merritt, John E.; and Hempling, Norman G., 4,706,047, Cl. 332-19.000.

Merritt, Sears W.; Grudkowski, Thomas W.; and Montress, Gary K., to United Technologies Corporation. Large bandwidth saw adaptive processor arrangement. 4,656,601, 4-7-87, Cl. 364-821.000.

Merritt, Timothy K. Oil-changing system for an internal combustion engine. 4,674,456, 6-23-87, Cl. 123-196.00S.

Merritt, Vernon L. Looseleaf binder holder. 4,648,515, 3-10-87, Cl. 211-43.000.

Merritt, William. Paddle handle accessory. 4,701,142, 10-20-87, Cl. 440-101.000.

Merry, J. Bradford; and Brown, Lawrence B. to Chesapeake Laser Systems, Inc. Seam tracking system with acousto-optical scanner. 4,700,045, 10-13-87, Cl. 219-121.0LU.

Merry, Mark A. Window bar assembly. 4,677,789, 7-7-87, Cl. 49-56.000.

Merry, Rodney J.: *See—*
Jones, Paul W.; Merry, Rodney J.; and Linstad, Gregory A., 4,637,749, Cl. 403-322.000.

Merryman, Ora S. Cleaning solution. 4,637,892, 1-20-87, Cl. 252-139.000.

Mersereau, Robert E.: *See—*
Irvine, Robert; Mersereau, Robert E.; Roetter, Frank T.; and Silverman, Harold, 4,688,708, Cl. 225-100.000.

Merten, Gerhard; Rafael, Werner; and Schlusener, Horst, to Gewerkschaft Eisenhutte Westfalia. Hydraulic ram stroke monitoring apparatus. 4,679,429, 7-14-87, Cl. 73-168.000.

Merten, Gerhard: *See—*
Rassmann, Christoph, Nickel, Gerhard; Steinkuhl, Bernd; Merten, Gerhard; and Pfefferle, Egon, 4,715,659, Cl. 299-43.000.

Merten, Josef: *See—*
Richter, Wolfgang; Buysch, Hans-Josef; Brassat, Bert; Merten, Josef; and Haupt, Heinrich, 4,656,228, Cl. 525-433.000.

Merten, Rudolf; and Rottmaier, Ludwig, to Bayer Aktiengesellschaft. Heterocyclic tris-hydroxyalkyl compounds. 4,665,190, 5-12-87, Cl. 548-264.000.

Merten, Rudolf: *See—*
Jonas, Friedrich; Muller, Richard; Merten, Rudolf; and Rottmaier, Ludwig, 4,702,953, Cl. 428-209.000.
Rottmaier, Ludwig; and Merten, Rudolf, 4,658,026, Cl. 544-238.000.
Sirinyan, Kirkor; Wolf, Gerhard D.; von Gizycki, Ulrich; and Merten, Rudolf, 4,636,441, Cl. 428-447.000.
Sirinyan, Kirkor; Merten, Rudolf; and Giesecke, Henning, 4,657,786, Cl. 427-304.000.
Sirinyan, Kirkor; Jonas, Friedrich; and Merten, Rudolf, 4,659,592, Cl. 427-304.000.
Sirinyan, Kirkor; Merten, Rudolf; and Wolf, Gerhard D., 4,661,384, Cl. 427-304.000.

Mertens, Alfred; Holck, Jens-Peter; Berger, Herbert; Muller-Beckmann, Bernd; Strein, Klaus; and Roesch, Egon, to Boehringer Mannheim GmbH. Pyrrolobenzimidazoles, pharmaceutical compositions containing them and method of using them to treat certain heart and circulatory diseases. 4,695,567, 9-22-87, Cl. 514-253.000.

Mertens, Alfred; Holck, Jens-Peter; Kampe, Wolfgang; Muller-Beckmann, Bernd; Strein, Klaus; and Schaumann, Wolfgang, to Boehringer Mannheim GmbH. Pyrrolobenzimidazoles, pharmaceutical compositions containing them, and use of them to treat certain heart and circulatory diseases. 4,710,510, 12-1-87, Cl. 514-394.000.

Mertens, Alfred: *See—*
Holck, Jens-Peter; Mertens, Alfred; Kampe, Wolfgang; Muller-Beckmann, Bernd; Sponer, Gisbert; and Strein, Klaus, 4,666,923, Cl. 514-338.000.

Mertens, Gustav: *See—*
Ewest, Eckhart; Mertens, Gustav; and Straschewski, Helmut, 4,635,570, Cl. 110-237.000.

Mertens, Heinrich: *See—*
Fikentscher, Rolf; Heimann, Sigismund; Mertens, Heinrich; Schneider, Siegfried; and Vescia, Michele, 4,704,132, Cl. 8-189.000.

Mertens, Horst M.; and Bogl, Leonhard, to ATOMIKA Technische Physik GmbH; and Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V. Vacuum vapor-deposition system. 4,690,098, 9-1-87, Cl. 118-727.000.

Mertens, Josephus C.: *See—*
Vandenberk, Jan; Kennis, Ludo E. J.; and Mertens, Josephus C., 4,665,075, Cl. 514-259.000.

Mertens, Lawrence E., to RCA Corporation. Coherent-on-receive radar with prephase correction circuit. 4,635,060, 1-6-87, Cl. 342-194.000.

Mertens, Richard: *See—*
Dahmen, Kurt; Kuster, Erich; Mertens, Richard; and Brehm, Helmut, 4,644,083, Cl. 564-205.000.

Mertens, Theobald, to General Motors Corporation. Drive unit suspension. 4,703,828, 11-3-87, Cl. 180-291.000.

Mertens, Timothy A., to Minnesota Mining and Manufacturing Company. Package and dispenser for adhesive coated notepaper. 4,653,666, 3-31-87, Cl. 221-45.000.

Mertes, Anthony J.: *See—*
Shope, Leonard L.; and Mertes, Anthony J., 4,676,557, Cl. 299-39.000.

Mertinkat, Willi: *See—*
Warnke, Heinrich; Kaup, Friedel; Bersch, Bernhard; Mertinkat, Willi; and Tenhaven, Ulrich, 4,707,385, Cl. 427-374.100.

Mertz, Denny W., to Emerson Electric Co. Adjustable pressure regulating solenoid valve. 4,681,297, 7-21-87, Cl. 251-45.000.

Mertz, John M.: *See—*
Bird, Charles R.; and Mertz, John M., 4,655,276, Cl. 164-519.000.

Mertz, Kenneth H.: *See—*
Maston, Donald M.; and Mertz, Kenneth H., 4,695,112, Cl. 439-350.000.

Mertz, Stanley A.: *See—*
Welsh, William A.; Parent, Yves O.; and Mertz, Stanley A., 4,684,530, Cl. 426-330.400.

Mertz, William J.; and O'Brien, William L., to National Distillers and Chemical Corporation. Liquid copolyester plasticizers derived from 1,4-butanediol and a dicarboxylic acid mixture. 4,689,429, 8-25-87, Cl. 560-199.000.

Mertz, William J.; and O'Brien, William L., to National Distillers and Chemical Corporation. Liquid copolyester plasticizers derived from 1,4-butanediol and a dicarboxylic acid mixture. 4,698,383, 10-6-87, Cl. 524-314.000.

Meru, Inc.: *See—*
McLaughlin, Charles A., 4,683,196, Cl. 435-7.000.

Merwin, Gerald E., to University of Florida. Surgical apparatus for contouring implants. 4,656,995, 4-14-87, Cl. 128-303.00R.

Merwin, Gerald E.; Spilman, Derek B.; and Hench, Larry L., to University of Florida. Middle ear prosthesis. 4,676,796, 6-30-87, Cl. 623-10.000.

Mery, Jean-Claude, to Bendix France. Disc brake with sliding calliper. 4,669,583, 6-2-87, Cl. 188-73.380.

Mery, Jean-Claude, to Bendix France. Spring for a disc brake and disc brake equipped with such a spring. 4,699,254, 10-13-87, Cl. 188-73.360.

Merz, Arthur, to Siemens Aktiengesellschaft. Commissioning system. 4,679,149, 7-7-87, Cl. 364-478.000.

Merz, Dieter: *See—*
Hempel, Hans D.; and Merz, Dieter, 4,663,293, Cl. 435-294.000.

Merz, Donald M.; Chandler, Jimmy E.; and Economy, Richard, to General Electric Company. Memory efficient cell texturing for advanced video object generator. 4,692,880, 9-8-87, Cl. 364-521.000.

Merz, Donald M.: *See*—
Bunker, William M.; and Merz, Donald M., 4,714,428, Cl. 434-43.000.
Merz, Eckhard: *See*—
Heitzenroder, Hans; and Merz, Eckhard, 4,715,494, Cl. 206-213.100.
Merz, Herbert: *See*—
Banholzer, Rolf; Merz, Herbert; Stockhaus, Klaus; and Jennewein, Hans M., 4,699,910, Cl. 514-255.000.
Merz, Johann, to Zahnradfabrik Friedrichshafen, AG. Servo steering for vehicles. 4,676,333, 6-30-87, Cl. 180-132.000.
Merz, Johann, to Zahnradfabrik Friedrichshafen, Ag. Regulatable fan drive. 4,709,666, 12-1-87, Cl. 123-41.120.
Merz, Jurg, to Ciba-Geigy Corporation. Anionically modified polysaccharides chromatography agents. 4,664,806, 5-12-87, Cl. 210-635.000.
Merz, Ludwig: *See*—
Dohler, Werner; Merz, Ludwig; Frohnert, Heinz; Uckermann, Bernd; Graeser, Ulrich; Jankowski, Alfons; Wolowski, Eckard; Tamm, Hans-Friedrich; and Wilczok, Norbert, 4,639,310, Cl. 208-412.000.
Merzenich, Michael M.: *See*—
Byers, Charles L.; Loeb, Gerald E.; Merzenich, Michael M.; and Rebscher, Stephen J., 4,686,765, Cl. 29-858.000.
Mesa, Clarence M., to Survival Technology, Inc. Automatic injector with improved glass container protector. 4,678,461, 7-7-87, Cl. 604-157.000.
Mesa, Jesus G., to Progesco, S.A. Parking space blocking device. 4,641,459, 2-10-87, Cl. 49-35.000.
Mesa, Onelio. Back scrubbing device. 4,704,759, 11-10-87, Cl. 15-160.000.
Mesch, Keith A.; and Conroy, Gary M., to Morton Thiokol, Inc. Stabilizers for halogen-containing organic polymers comprising an organotin mercaptide and a diester of an unsaturated dicarboxylic acid. 4,681,907, 7-21-87, Cl. 524-180.000.
Mesch, Keith A.: *See*—
Kugele, Thomas G.; Mesch, Keith A.; and Wursthorn, Karl R., 4,665,114, Cl. 524-181.000.
Kugele, Thomas G.; Mesch, Keith A.; Wursthorn, Karl R.; and Conroy, Gary M., 4,711,920, Cl. 524-178.000.
Meschan, Franz: *See*—
Schwingenschuh, Martin; Meschan, Franz; and Ribitsch, Gert, 4,714,910, Cl. 338-21.000.
Meschi, Luciano. Receiving, cutting and piling equipment for strips of sheet material. 4,650,447, 3-17-87, Cl. 493-11.000.
Meschke, Debra J.; Hoy, Kenneth L.; and Theiling, Louis F., Jr., to Union Carbide Corporation. Ceramic composition and process for use thereof. 4,638,029, 1-20-87, Cl. 524-430.000.
Mesdan S.p.A.: *See*—
Locatelli, Lorenzo, 4,693,067, Cl. 57-22.000.
Mesek, Frederick K., to Personal Products Company. Disposable diaper with folded absorbent batt. 4,670,011, 6-2-87, Cl. 604-378.000.
Meseltron S.A.: *See*—
Knapp, Wolfgang; and Hrovat, Stojan, 4,662,074, Cl. 33-169.00C.
Sigg, Hans, 4,637,169, Cl. 51-165.770.
Mesenich, Gerhard; Bart, Hansueli; and Alsbrook, Daniel E., to Colt Industries Inc. Multi-point fuel injection apparatus. 4,708,117, 11-24-87, Cl. 123-533.000.
Meserol, Peter M.; Acker, Jesse L.; Murnick, Janet G.; and Pappas, Dean, to Personal Diagnostics, Inc. Self-sufficient incubation assembly. 4,666,853, 5-19-87, Cl. 435-290.000.
Meserol, Peter M.; and Acker, Jesse L., to Gamma Biologicals, Inc. Biological fluid assay system. 4,683,120, 7-28-87, Cl. 422-72.000.
Meshberg, Philip. Apparatus for dispensing products from a self-sealing dispenser. 4,696,415, 9-29-87, Cl. 222-82.000.
Meshbesher, Thomas M. Electrogenerative oxidation of lower alcohols to useful products. 4,648,948, 3-10-87, Cl. 204-79.000.
Mesher, Mark. Transport apparatus for loading microdisks into and retrieving them from a disk drive and thereafter sorting them. 4,654,732, 3-31-87, Cl. 360-98.000.
Mesher, Mark, to Modular Robotics. Diskette sequential transport apparatus. 4,665,455, 5-12-87, Cl. 360-98.000.
Meshkat-Razavi, Saeid, to Electro-Craft Corporation. Brushless motor control circuitry with optimum current vector control. 4,651,068, 3-17-87, Cl. 318-254.000.
Meshreki, Makram H.: *See*—
Stephen, John F.; Smith, Jerry H.; and Meshreki, Makram H., 4,645,853, Cl. 560-58.000.
Mesinger, Robert H. Sheer line deck-edge fender for vessels. 4,664,053, 5-12-87, Cl. 114-219.000.
Meskin, Alexander R.: *See*—
Bigelow, Louis K.; Grappendorf, Richard H.; and Meskin, Alexander R., 4,673,044, Cl. 175-329.000.
Meslener, George J.; and Baum, Peter N., to GTE Laboratories Incorporated. High speed laser driver. 4,647,792, 3-3-87, Cl. 307-270.000.
Meslif, Alain: *See*—
Henault, Jean-Paul; Drapier, Albert; Grochowski, Guy; and Meslif, Alain, 4,677,939, Cl. 122-17.000.
Meslner, George J.; and Baum, Peter N., to GTE Laboratories Incorporated. High speed logic apparatus. 4,647,800, 3-3-87, Cl. 307-455.000.
Mesloh, Raymond E.: *See*—
Riley, William E., Jr.; Razgaitis, Richard; and Mesloh, Raymond E., 4,647,890, Cl. 335-278.000.
Mesman, Alexander H. Carburetor mixture controller apparatus. 4,660,525, 4-28-87, Cl. 123-525.000.
Mesmer, Otto; Polligkeit, Wolfgang; Schiffer, Ernst-Uwe; Troger, Wolfgang; and Wolter, Andreas, to Vorwerk & Co. Interholding GmbH. Urea-formalde resin foam detergent and method for producing the same. 4,655,952, 4-7-87, Cl. 252-88.000.
Mesnard, David R.; and Kalin, Horst W., to Dieterich Standard Corp. Insert/retract mechanism for flow measurement probes. 4,633,713, 1-6-87, Cl. 73-866.500.
Mesnard, Robert M.: *See*—
Kerr, Randal H.; and Mesnard, Robert M., 4,696,003, Cl. 371-19.000.
Mesquida, Guy, to Thomson-CSF. Optical device for concentrating the light radiation emitted by a light emitting diode, and a light emitting diode comprising a device of this nature. 4,703,219, 10-27-87, Cl. 313-111.000.
Mess, Richard C., to Koppers Company, Inc. Void plug lift insert assembly for a cast concrete product. 4,679,362, 7-14-87, Cl. 52-125.500.
Message, Olivier, to SKF Compagnie d'Applications Mecaniques. Free wheel with self-centering cage. 4,682,677, 7-28-87, Cl. 192-41.00A.
Messager, Joel: *See*—
Marhic, Gerard; and Messager, Joel, 4,650,956, Cl. 219-121.0PY.
Messelt, Christopher D.: *See*—
Adams, Glen L.; and Messelt, Christopher D., 4,661,589, Cl. 536-91.000.
Messenger, Edward T.; Mather, Douglas E.; and Phillips, Brinley M., to Albright & Wilson Ltd. Concentrated aqueous surfactant compositions. 4,692,271, 9-8-87, Cl. 252-354.000.
Messenger, Edward T.: *See*—
Akred, Brian J.; Messenger, Edward T.; and Nicholson, William J., 4,659,497, Cl. 252-135.000.
Messenger, Lawrence W.: *See*—
Upadhyay, Anand; and Messenger, Lawrence W., 4,694,236, Cl. 318-798.000.
Messer Griesheim GmbH: *See*—
Donath, Sabine; and Holz, Peter, 4,637,174, Cl. 51-425.000.
Donnerhack, Andreas; Jankowski, Detlef; Pfeil-Schneider, Kurt; Thoma, Klemens; and Volker, Wolfgang, 4,688,603, Cl. 138-103.000.
Fieseler, Heinrich; and Thoma, Klemens, 4,698,976, Cl. 62-48.000.
Gahrs, Hans J., 4,714,617, Cl. 426-427.000.
Herrnkind, Wolfgang; Itzenhauser, Reinhard; and Kosfeld, Gerhard, 4,663,244, Cl. 428-564.000.
Leitzke, Ortwin; and Wolf, Ewald, 4,656,010, Cl. 422-186.180.
Roder, Walter, 4,694,139, Cl. 219-121.0LU.
TheiBen, Friedel; and Kesten, Martin, 4,704,068, Cl. 417-48.000.
Theissen, Friedel; and Fieseler, Heinrich, 4,705,189, Cl. 220-465.000.
Thoma, Klemens; and Volker, Wolfgang, 4,693,252, Cl. 128-400.000.
Winkelmann, Hans-Joachim; and Busch, Wolfgang, 4,664,286, Cl. 220-85.00P.
Messer, Mark G.; and Stark, Lawrence R., to Varian Associates, Inc. Sputter module for modular wafer processing system. 4,670,126, 6-2-87, Cl. 204-298.000.
Messer, Wayne R., to Hercules Incorporated. Photopolymer process and composition employing a photooxidizable component capable of forming endoperoxides. 4,666,824, 5-19-87, Cl. 430-325.000.
Messer, Wayne R., to Hercules Incorporated. Plasma developable photoresist compositions containing perylene coumarin photosensitizer. 4,698,286, 10-6-87, Cl. 430-17.000.
Messerli, Alan J.: *See*—
Scott, Graham A.; and Messerli, Alan J., 4,710,844, Cl. 361-96.000.
Messerly, John J.: *See*—
Soloveychik, Yakov G.; and Messerly, John J., 4,653,942, Cl. 400-122.000.
Messerschmidt, Robert G.; and Sting, Donald W., to Spectra-Tech Inc. Blocker device for eliminating specular reflectance from a diffuse reflection spectrum. 4,661,706, 4-28-87, Cl. 250-341.000.
Messerschmidt, Robert G., to Spectra-Tech, Inc. Spectrophotometric image scrambler for full aperture microspectroscopy. 4,712,912, 12-15-87, Cl. 356-73.000.
Messerschmidt, Robert G.: *See*—
Sting, Donald W.; and Messerschmidt, Robert G., 4,653,880, Cl. 350-620.000.
Messerschmidt, Werner: *See*—
Sedlmair, Gerhard; Knabel, Walter; and Messerschmidt, Werner, 4,685,696, Cl. 280-625.000.
Messerschmitt-Bolkow-Blohm GmbH: *See*—
Baechler, Theodor; and Amann, Josef, 4,643,071, Cl. 89-1.701.
Bohm, Otto; Lallinger, Georg; and Foll, Hans, 4,674,391, Cl. 86-1.100.
Brunsch, Klaus; Sappl, Peter; and Bongers, Bernd, 4,634,399, Cl. 464-87.000.
Dellinger, Juergen; Hoeppner, Hans-Jochen; and Kraemer, Ulrich, 4,666,105, Cl. 244-63.000.
Diehl, Christian; Lill, Ernst; and Kirsche, Horst, 4,669,682, Cl. 244-3.130.
Diehl, Christian; Schnaebele, Werner; Allgaier, Karl-Heinz; and Kirsche, Horst, 4,676,455, Cl. 244-3.130.
Frankle, Helmut, 4,676,876, Cl. 204-9.000.
Friederich, Oskar, 4,643,374, Cl. 244-52.000.
Frisch, Eberhard, 4,674,715, Cl. 244-171.000.
Frisch, Eberhard, 4,690,354, Cl. 244-158.00R.
Genssler, Hans-Peter; and Lotter, Kurt, 4,655,413, Cl. 244-53.00B.
Grabow, Dieter, 4,702,153, Cl. 98-1.000.
Groessler, Peter; and Nissl, Norbert, 4,667,598, Cl. 102-215.000.
Grossler, Peter; and Nissl, Norbert, 4,638,130, Cl. 200-61.45R.
Gruber, Ernst, 4,658,659, Cl. 74-5.460.

Haas, Jan T.; and Hadwin, Robin-Leslie, 4,641,678, Cl. 137-15.100.
Haas, Ludwig; and Moosmang, Klaus, 4,675,689, Cl. 343-786.000.
Haberl, Fritz, 4,665,314, Cl. 250-338.000.
Haberl, Fritz, 4,672,220, Cl. 250-578.000.
Haberl, Fritz, 4,710,619, Cl. 250-203.00R.
Hahn, Michael; and Sperber, Franz, 4,643,646, Cl. 416-226.000.
Hahn, Michael; and Kuntze-Fechner, Gerald, 4,690,616, Cl. 416-134.00A.
Halldorsson, Thorsteinn; Manhart, Sigmnund; and Seiffarth, Ernst A., 4,674,874, Cl. 356-152.000.
Halldorsson, Thorsteinn; and Seiffarth, Ernst A., 4,682,024, Cl. 250-225.000.
Harasim, Anton; and Dietrich, Klaus, 4,699,468, Cl. 350-332.000.
Heinze, Horst; and Herbig, Henning, 4,658,265, Cl. 343-915.000.
Held, Manfred, 4,658,726, Cl. 102-416.000.
Held, Manfred, 4,696,232, Cl. 102-254.000.
Hengst, Thomas; and Hahn, Andreas, 4,669,819, Cl. 350-96.200.
Herbig, Henning; Heinze, Horst; Drachenberg, Franz; and Pontoppidan, Knud, 4,642,652, Cl. 343-915.000.
Hirschel, Ernst H., 4,712,751, Cl. 244-119.000.
Hoeppner, Hans-Jochen; Kraemer, Ulrich; and Soelter, Michael, 4,659,038, Cl. 244-49.000.
Hofmann, Otto, 4,689,748, Cl. 364-456.000.
Hofmann, Otto, 4,708,472, Cl. 356-2.000.
Kirma, Safa, 4,653,842, Cl. 339-198.00P.
Koenig, Herbert, 4,664,346, Cl. 244-223.000.
Kranz, Walter, 4,646,991, Cl. 244-3.220.
Kranz, Walter, 4,674,707, Cl. 244-3.220.
Kranz, Walter, 4,681,283, Cl. 244-3.220.
Kranz, Walter, 4,691,876, Cl. 244-3.220.
Kulinyak, Ernst, 4,692,094, Cl. 416-11.000.
Kunkel, Bernd, 4,710,620, Cl. 250-203.00R.
Kuntze-Fechner, Gerald; Friedberger, Otmar; and Hahn, Michael, 4,690,615, Cl. 416-134.00A.
Langer, Stefan, 4,703,695, Cl. 102-476.000.
Leo, Rolf; Meusel, Karl-Heinz; and Uttner, Alfred, 4,696,506, Cl. 295-38.000.
Loebert, Gerhard, 4,674,717, Cl. 244-207.000.
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Mietrach, Dietmar, 4,674,675, Cl. 228-194.000.
Mitsching, Rainer; and Nennstiel, Heinz, 4,641,510, Cl. 72-53.000.
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Protz, Rudolf, 4,666,298, Cl. 356-124.000.
Ruger, Roderich, 4,694,333, Cl. 358-113.000.
Sarh, Branko, 4,633,632, Cl. 52-245.000.
Schneider, Horst; and Hermann, Joachim, 4,656,920, Cl. 89-16.000.
Seidel, Albert; and Malburg, Werner, 4,694,655, Cl. 62-51.000.
Sodeikat, Dieter, 4,667,104, Cl. 250-338.000.
Sodeikat, Dieter, 4,672,205, Cl. 250-338.000.
Sodeikat, Dieter, 4,680,968, Cl. 73-651.000.
Sodeikat, Dieter, 4,684,804, Cl. 250-338.000.
Soltow, Uwe; Guthke, Hans-Peter; Plate, Hans-Georg; Lechner, Johann; and Kirma, Safa, 4,715,571, Cl. 248-68.100.
Spies, Hans; Wohrl, Alfons; and Schmidt, Roland, 4,676,166, Cl. 102-362.000.
Spies, Hans; and Woehrl, Alfons, 4,703,693, Cl. 102-215.000.
Spitzer, Hans-Dieter; and Wackerle, Peter, 4,699,417, Cl. 295-7.000.
Sprenger, Wilfried; and Kirma, Safa, 4,660,787, Cl. 244-118.500.
von Maydell, Ignaz; Detlefsen, Juergen; and Blaha, Alfred, 4,675,677, Cl. 342-25.000.
Wagenknecht, Juergen; and Raedisch, Dieter, 4,709,843, Cl. 227-156.000.
Wagner, Siegfried, 4,651,045, Cl. 310-328.000.
Woerndle, Rudolf, 4,715,589, Cl. 267-148.000.

Messerschmitt, David G., to University of California, Regents of the. Hybrid circuit and method. 4,669,115, 5-26-87, Cl. 379-402.000.

Messerschmitt, David G.: *See*—
Agazzi, Oscar E.; and Messerschmitt, David G., 4,669,116, Cl. 379-411.000.

Messersmith, William K.; and Fulmer, Keith H., to Allied Corporation. Vehicular hill holder system having a control circuit responsive to vehicular attitude, clutch position, and gear position. 4,660,691, 4-28-87, Cl. 192-3.00H.

Messersmith, William K., to Allied Corporation. Release mechanism for a hill holder device. 4,666,021, 5-19-87, Cl. 188-331.000.

Messick, Virginia B.: *See*—
Hoffman, Dwight K.; Stevens, Michael G.; and Messick, Virginia B., 4,690,988, Cl. 525-502.000.

Messier Fonderie d'Arudy: *See*—
Broihanne, Georges; and Magnier, Pierre, 4,700,768, Cl. 164-361.000.
Rocher, Jean-Philippe; Quenisset, Jean-Michel; Pailler, Rene; and Naslain, Roger, 4,659,593, Cl. 427-310.000.

Messier-Hispano-Bugatti (S.A.): *See*—
Guichard, Jean, 4,683,538, Cl. 364-426.000.
Guichard, Jean, 4,703,837, Cl. 188-71.500.
Veaux, Jacques; and Derrien, Michel, 4,681,284, Cl. 244-102.00R.

Messina, Aurelio. Semi-rotating single acting pneumatic actuator. 4,651,626, 3-24-87, Cl. 92-13.600.

Messina, Benedicto U.: *See*—
Chiesa, George L.; Krygowski, Matthew A.; Messina, Benedicto U.; and Papanastasiou, Theodore A., 4,654,778, Cl. 364-200.000.

Messina, Joseph A.: *See*—
Caruso, Robert D.; and Messina, Joseph A., 4,678,891, Cl. 219-121.0LJ.

Messina, Richard: *See*—
Gabano, Jean-Paul; Broussely, Michel; Pereira-Ramos, Jean-Pierre; Messina, Richard; and Perichon, Jacques, 4,690,877, Cl. 429-194.000.

Messinger, Werner; and Trolltsch, Karl, to Braun Aktiengesellschaft. Rocker arm drive for electrical appliances. 4,649,762, 3-17-87, Cl. 74-42.000.

Messinger, Werner; and Trolltsch, Karl, to Braun Aktiengesellschaft. Device for converting the rotary motion of an eccentric into a reciprocating motion. 4,669,322, 6-2-87, Cl. 74-42.000.

Messmer, Andras; Batori, Sandor; Hajos, Gyorgy; Benko, Pal; Pallos, Laszlo; Petocz, Lujza; Grasser, Katalin; and Kosoczky, Ibolya, to Egyt Gyogyszervegyeszeti Gyar. Condensed as-triazine derivatives. 4,697,013, 9-29-87, Cl. 544-183.000.

Messmer, Karlheinz; Hennig, Karl; Denzinger, Walter; Hettche, Albert; Trieselt, Wolfgang; and Raubenheimer, Hans-Juergen, to BASF Aktiengesellschaft. Preparation of water-soluble polymer powders and their use. 4,670,524, 6-2-87, Cl. 526-88.000.

Messmer, Karlheinz: *See*—
Tschang, Chung-Ji; Messmer, Karlheinz; and Denzinger, Walter, 4,647,637, Cl. 526-264.000.
Tschang, Chung-Ji; Messmer, Karlheinz; and Denzinger, Walter, 4,658,002, Cl. 526-264.000.

Messmer, Michael J.: *See*—
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Messner, Erich; and Harold, Franz, to Maschinenfabrik Heid Aktiengesellschaft. Equipment for the uniform dosage, dispersion and application of protective coatings with liquid formula, particularly seed-dressing means. 4,658,754, 4-21-87, Cl. 118-303.000.

Messori, Vittorio: *See*—
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Messrs. Karl Storz GmbH & Co.: *See*—
Miketic, Sinisa; Schade, Udo; and Schaue, Michael, 4,708,125, Cl. 128-4.000.

Messrs. Leonhard Kurz: *See*—
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Mesta Engineering Company: *See*—
Blough, Leonard P., 4,633,697, Cl. 72-164.000.

Mestais, Corinne: *See*—
Roux, Georges; Mestais, Corinne; and Gauthier, Rene, 4,672,542, Cl. 364-414.000.

Mestas, Jean-Louis; and Cathignol, Dominique, to Technomed International; and Institut National de la Sante et de la Recherche Meoicale. Apparatus for generating high frequency shock waves provided with a screen which reduces the electric leakages. 4,702,248, 10-27-87, Cl. 128-328.000.

Mestdagh, Gilbert E.; and Aldenhoven, Ghislanus M. A. M., to U.S. Philips Corporation. Latching storage case for a holder containing an information carrier. 4,641,747, 2-10-87, Cl. 206-309.000.

Mestdagh, Jacques, to Figos. Societe Anonyme. Anti-theft shop display case. 4,682,826, 7-28-87, Cl. 312-42.000.

Mestemaker, Jerry L.: *See*—
Vara, Tomas E.; Mestemaker, Jerry L.; and Thakker, Bob R., 4,689,054, Cl. 55-61.000.

Mester, Zoltan C.; and Aitken, Edward J., to Union Oil Company of California. Process for reducing sulfur oxide emissions from catalytic cracking units. 4,642,177, 2-10-87, Cl. 208-113.000.

Mester, Zoltan C.; and Aitken, Edward J., to Union Oil Company of California. Sorbent for reducing sulfur oxide emissions from catalytic cracking units and process for producing the sorbent. 4,686,204, 8-11-87, Cl. 502-406.000.

Mesters, Carolus M. A. M.; Geus, John W.; Kuijpers, Eugene G. M.; and Gitzeman, Onno L. J., to VEG-Gasinstituut N.V. Process for the production of a catalyst. 4,657,888, 4-14-87, Cl. 502-331.000.

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Mestieri, Renzo, to Black Gold Development Corporation. Pumping unit. 4,698,968, 10-13-87, Cl. 60-372.000.

Mestnik, Joseph G.: *See*—
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Meston, Spencer D.; and Phillips, John W., to British Aerospace PLC. Fin erecting mechanisms. 4,714,216, 12-22-87, Cl. 244-3.290.

Mestre, Michel; and Renault, Christian, to Rhone-Poulenc Sante. Pharmacologically active piperidine derivatives and their use. 4,665,076, 5-12-87, Cl. 514-259.000.

Mestre, Michel; and Renault, Christian, to Rhone-Poulenc Sante. 1-(4-quinolyl)-2 or 3-(4-piperidyl)-ethanamine and -propanamine derivatives, and their use. 4,670,446, 6-2-87, Cl. 514-314.000.

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Mesun, Randy O.; and Schobert, Frank, to Kohler Co. Toilet rim water distributor. 4,710,987, 12-8-87, Cl. 4-420.000.

Mesur-Matic Electronics: *See*—
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Meszaros, Judit: *See*—
Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo; and Heil, Balint, 4,710,323, Cl. 260-543.00R.

Meszaros, Sandor; Verzar-Petri, Gisela; Nyiredy-Mikita, Klara; Tyihak, Erno; Nyiredy, Szabolcs; Meier, Beat; Sticher, Otto; and Dallenbach-Toelke, Karin, to Petazon Inc. Planar centrifugal chromatography device. 4,678,570, 7-7-87, Cl. 210-198.200.
Meszaros, Sandor: *See*—
Tompa, Ildiko F.; Nagy, Attila; Tyihak, Erno; Nyiredy, Szabolcs; Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida, Laszlo ; Mincsovics, Emil; Kemeny, Gabor; and Baranyi, Piroska, 4,671,870, Cl. 210-149.000.
Meszaros, Zoltan; Knoll, Jozsef; Hermecz, Istvan; Szentmiklosi, Peter; Horvath, Agnes; Vasvari nee Debreczy, Lelle; Kovacs, Gabor; Gyires, Klara; and Virag, Sandor, to Chinoin Gyogyszer es Vegyeszeti Termekek Gyara RT. Treating process. 4,666,912, 5-19-87, Cl. 514-258.000.
Meszko, William R.; and Chemelewski, Gary, to Motorola, Inc. Mobile radio range extender with saw filter. 4,654,885, 3-31-87, Cl. 455-219.000.
Metabi, Tsuneyo, to Minolta Camera Kabushiki Kaisha. Aperture value information switchable lens barrel. 4,682,871, 7-28-87, Cl. 354-400.000.
Metabowerke GmbH & Co.: *See*—
Keller, Michael, 4,667,749, Cl. 173-162.00H.
Schnizler, Albrecht; Schulz, Manfred; and Bartmann, Klaus, 4,690,226, Cl. 173-128.000.
Metacon AG: *See*—
Tinnes, Bernhard, 4,708,193, Cl. 164-453.000.
Metal Alloys, Inc.: *See*—
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Metal Bond (Technology) Limited: *See*—
Hope, Paul F., 4,666,326, Cl. 403-13.000.
Metal Box p.l.c.: *See*—
Ackland, Martin R.; and D'Eath, Roderick M., 4,653,337, Cl. 73-866.500.
Benge, Terence A.; and Prince, Cyril M., 4,652,325, Cl. 156-244.110.
Bull, Cyril A., 4,667,499, Cl. 72-352.000.
Butcher, Peter E.; Dick, David A.; Nicholas, James W.; Robinson, Melvin E. R.; and Staines, Glyn, 4,697,718, Cl. 220-82.00R.
Clarke, John; D'Eath, Roderick M.; and Haycock, Derek E., 4,687,612, Cl. 264-322.000.
Collins, Malcolm G., 4,667,842, Cl. 220-307.000.
Davis, John W., 4,702,399, Cl. 222-390.000.
Fishwick, Alan J.; Jackson, Robert K.; and Wilson, Anthony J., 4,654,903, Cl. 432-35.000.
Hopson, Eric C., 4,661,195, Cl. 156-344.000.
Middleton, Nicholas J., 4,715,913, Cl. 156-85.000.
Oakley, John R., 4,636,187, Cl. 493-134.000.
Pavely, Andrew P., 4,674,649, Cl. 220-271.000.
Pavely, Andrew P., 4,712,707, Cl. 220-307.000.
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Metal Building Components, Inc.: *See*—
Ginn, Albert R., Jr., 4,655,020, Cl. 52-551.000.
Metal Improvement Co., Inc.: *See*—
Amy, A. Andre ; and Babineaux, Jules, 4,693,102, Cl. 72-53.000.
Metalines, Inc.: *See*—
Dunsworth, Charles L., 4,649,129, Cl. 502-407.000.
Metallgesellschaft Aktiengesellschaft: *See*—
Alig, Franz; Bocker, Heinrich; Neulinger, Franz; and Schummer, Helmut, 4,690,694, Cl. 55-4.000.
Batza, Willi; and Rosch, Werner, 4,710,203, Cl. 55-2.000.
Dallhammer, Richard; Donig, Gerhard; Gaul, Hartmut; Schmidt, Walter; Neulinger, Franz; and Schummer, Helmut, 4,670,829, Cl. 363-57.000.
Daradimos, Georg; Hirsch, Martin; and Schnabel, Wolfram, 4,676,824, Cl. 75-36.000.
Ernst, Helmut; Breier, Alfred; Schwalbach, Manfred; Will, Karl-Heinz; Cameron, Alan B.; and Bates, Peter C., 4,680,009, Cl. 432-117.000.
Fennemann, Wolfgang, 4,680,281, Cl. 502-218.000.
Graf, Rolf; Reh, Lothar; and Schroter, Michael, 4,670,237, Cl. 423-244.000.
Hartmann, Wolfgang; and Gocht, Paul G., 4,678,484, Cl. 55-112.000.
Hillmann, Willi; Paus, Hermann; and Drews, Eberhard, 4,700,023, Cl. 191-12.20A.
Leussler, Wilhelm, 4,680,036, Cl. 55-2.000.
Leussler, Wilheim, 4,702,751, Cl. 55-96.000.
Moller, Friedrich-Wilhelm; Boll, Walter; Marschner, Friedemann; and Muller, Wolf-Dieter, 4,692,322, Cl. 423-415.00A.
Rammler, Roland; Weiss, Hans J.; Dreher, Ingo; Schmalfeld, Jorg; and Bietz, Karl-Heinz, 4,659,456, Cl. 208-407.000.
Rausch, Werner; and Mueller, Gerhard, 4,637,838, Cl. 148-6.15Z.
Ruhle, Manfred; and Wincierz, Peter, 4,706,894, Cl. 241-30.000.
Sander, Wilfried; Essig, Gunder; and Wacker, Erich, 4,691,622, Cl. 92-233.000.
Schmidt, Hans-Werner; Koch, Walter; Hirsch, Martin; Rosenthal, Karlheinz; and Yetmen, Yilmaz, 4,643,885, Cl. 423-119.000.
Schmidt, Hans-Werner; Koch, Walter; Hirsch, Martin; Rosenthal, Karlheinz; and Yetmen, Yilmaz, 4,663,132, Cl. 423-119.000.
Schuster, Gert; Vierrath, Helmut; Kupfer, Hans; and Wolf, Heinz, 4,643,739, Cl. 48-86.00R.
Unger, Gerfried; Untucht, Helmut; and Winterstein, Wolfgang, 4,675,126, Cl. 252-153.000.
Metallurgical, Inc.: *See*—
Withers, James C.; and Upperman, Gary V., 4,670,110, Cl. 204-67.000.
Metallurgical Industries, Inc.: *See*—
Langley, Isaac L., 4,661,249, Cl. 210-266.000.
Shubert, Gary C., 4,689,463, Cl. 219-76.160.
Metallurgical Instruments, Inc.: *See*—
Kenney, George B., 4,636,339, Cl. 264-12.000.
Metallurgiche Balzano S.p.A.: *See*—
Balzano, Savino, 4,690,047, Cl. 99-542.000.
Metallurgie Hoboken-Overpelt: *See*—
Verhoeven, Constant T.; and Hens, Carolus M-Th. L., 4,657,464, Cl. 414-31.000.
Metallurgique et Miniere de Rodange-Athus S.A.: *See*—
Economopoulos, Marios; Lambert, Nicole; Simon, Pierre; and Conti, Rene , 4,668,308, Cl. 148-12.00R.
Metallwerk K. Pittl Ges.mbH & Co. KG: *See*—
Jungkind, Roland, 4,682,785, Cl. 280-615.000.
Metalmeccanica Fracasso S.p.A.: *See*—
Tomba, Silvano; and Tomba, Giuseppe, 4,645,202, Cl. 272-97.000.
Metalmeccanica Gori & Zucchi M.G.Z., S.p.A.: *See*—
Tega, Ezio; Piccini, Fabrizio; Mazzini, Marco; and Magi, Raffaello, 4,711,015, Cl. 29-566.200.
Metalova, Marie: *See*—
Drobnik, Jaroslav; Noskova, Dagmar; Rypacek, Frantisek; Metalova, Marie; and Saudek, Vladimir, 4,659,849, Cl. 556-137.000.
Metalquimia, S.A.: *See*—
Corominas, Narciso L., 4,641,691, Cl. 141-73.000.
Corominas, Narciso L., 4,690,046, Cl. 99-533.000.
Metals, Joel, to L. G. Medical S.A. Filter, particularly for trapping blood clots. 4,688,553, 8-25-87, Cl. 128-1.00R.
Metals, Ltd.: *See*—
Lichti, Robert, 4,687,400, Cl. 414-4.000.
Lichti, Wayne P.; and Hofstatter, Alfred F., 4,640,711, Cl. 75-248.000.
Oslin, Brian; and Ecer, Gunes M., 4,667,497, Cl. 72-62.000.
Metaltec Corporation: *See*—
Chenot, Louis A., 4,661,894, Cl. 362-391.000.
Metaphor Computer Systems: *See*—
Yurchenco, James R., 4,689,761, Cl. 364-708.000.
Metatech Corporation: *See*—
Perlin, Alfred R., 4,676,584, Cl. 350-96.150.
Perlin, Alfred R., 4,678,902, Cl. 250-227.000.
Metcal, Inc.: *See*—
Busch, Paul F., 4,695,712, Cl. 219-535.000.
Carter, Philip S.; and Krumme, John F., 4,701,587, Cl. 219-10.75D.
Derbyshire, Rodney L., 4,659,912, Cl. 219-535.000.
Derbyshire, Rodney L., 4,665,309, Cl. 219-551.000.
Krumme, John F., 4,695,713, Cl. 219-553.000.
Metcalf, Charles G.: *See*—
Lawrence, Ventura J.; Metcalf, Charles G.; and Silva, Lawrence H., 4,640,367, Cl. 172-225.000.
Metcalf, Eric; Ormiston, Peter; Skinner, Michael J.; and Pike, Bruce J. Pressure monitoring. 4,663,965, 5-12-87, Cl. 73-49.300.
Metcalf, Jeffrey D.; and Gillingham, Gary D., to Sundstrand Corporation. Bi-directional overtravel stop. 4,643,290, 2-17-87, Cl. 192-141.000.
Metcalf, Jeffrey D.; and Gillingham, Gary D., to Sundstrand Corporation. Shaft relative speed limiting system. 4,663,985, 5-12-87, Cl. 74-661.000.
Metcalf, Jeffrey D., to Sundstrand Corporation. Quick disconnect mechanism. 4,685,550, 8-11-87, Cl. 192-67.00R.
Metcalf, Jeffrey D.: *See*—
Gillingham, Gary D.; and Metcalf, Jeffrey D., 4,641,737, Cl. 192-141.000.
Metcalf, Travis W., to United States of America, Navy. Thermal image dynamic range expander. 4,634,870, 1-6-87, Cl. 250-332.000.
Metcalfe, Arthur G.; and Ward, Michael E., to Solar Turbines Incorporated. Recuperator tube assembly. 4,642,864, 2-17-87, Cl. 29-157.3R.
Metcalfe, John G., to U.S. Philips Corporation. Saddle coils for electromagnetic deflection units. 4,639,703, 1-27-87, Cl. 335-213.000.
Metcalfe, Lincoln D.: *See*—
Brady, Catherine D.; Metcalfe, Lincoln D.; Slaboszewski, Dale R.; and Frank, Dieter, 4,678,580, Cl. 210-490.000.
Metcalfe, Richard J., to General Instrument Corporation. Mesh dish antenna and hub. 4,647,943, 3-3-87, Cl. 343-916.000.
Metcalfe, Richard T., to American Optical Corporation. Eyeglass frame structure and method of assembling same. 4,699,479, 10-13-87, Cl. 351-153.000.
Metcalfe, Robert S.: *See*—
Sheffield, Miller; Metcalfe, Robert S.; Calvin, James W.; and Chaback, Joseph J., 4,635,721, Cl. 166-268.000.
Meteau, Jean-Louis: *See*—
Alliot, Maurice; Meteau, Jean-Louis; and Reboul, Max, 4,699,203, Cl. 164-461.000.
Metelitsa, Vladimir I.: *See*—
Babaian, Eduard A.; Gerasimova, Galina A.; Davydov, Anatoly B.; Utyamyshev, Rustam I.; Khromov, Gennady L.; Metelitsa, Vladimir I.; Vikhert, Anatoly M.; Savvateev, Konstantin I.; Piotrovsky, Vladimir K.; and Novikova, Elizaveta B., 4,713,239, Cl. 424-81.000.
Metelko, Rudy R., Jr. Ash disposal device. 4,704,764, 11-10-87, Cl. 15-301.000.
Meteor AG: *See*—
Arnold, Ernst, 4,635,865, Cl. 242-7.030.
Meteor-Siegen Apparatebau Paul Schmeck GmbH: *See*—
Kohler, Wolfgang; Hommes, Hans-Jurgen; and Muhl, Artur, 4,664,500, Cl. 355-3.0TE.

Metevia, Virgil L.: *See—*
Woodard, John T.; and Metevia, Virgil L., 4,655,767, Cl. 604-896.000.
Methane Drainage Ventures: *See—*
Richards, Walter L., 4,651,836, Cl. 175-62.000.
Richards, Walter L.; Henderson, Roger L.; Aul, George N.; and Pauley, Barry W., 4,687,060, Cl. 166-285.000.
Richards, Walter L.; Henderson, Roger L.; Aul, George N.; and Pauley, Barry W., 4,691,789, Cl. 175-62.000.
Methode Electronics, Inc.: *See—*
Brown, Vincent B.; and McGrew, Sherman W., 4,693,550, Cl. 350-96.200.
Romine, Edward L.; and Byczek, Roger W., 4,678,250, Cl. 439-83.000.
Methode of California: *See—*
Berger, James K., 4,704,551, Cl. 307-575.000.
Methods, Inc.: *See—*
Dorumsgaard, John A.; and Amerson, Roger H., 4,648,774, Cl. 414-416.000.
Metme Communications: *See—*
Bloy, Graham P.; and Miramonti, John L., 4,695,825, Cl. 340-347.0SH.
Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; and Hosaka, Masumi, to Konishiroku Photo Industry Co., Ltd. Silver halide photographic light-sensitive emulsion. 4,659,654, 4-21-87, Cl. 430-567.000.
Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; Hosaka, Masumi; and Honda, Chika, to Konishiroku Photo Industry Co., Ltd. Silver halide photographic radiography light-sensitive material. 4,689,292, 8-25-87, Cl. 430-567.000.
Metoki, Kichinori: *See—*
Omote, Tatsuyuki; Yoshida, Tomiharu; Shimizu, Isamu; and Metoki, Kichinori, 4,643,845, Cl. 252-626.000.
Metokote Corporation: *See—*
Blankemeyer, Robert L., 4,643,815, Cl. 204-180.200.
Metoramic Sciences, Inc.: *See—*
Delgado, Robert F.; and Magrini, Kenneth H., 4,669,416, Cl. 118-503.000.
Metriflow, Inc.: *See—*
Moran, Paul R.; and Halbach, Richard E., 4,697,147, Cl. 324-306.000.
Metripond Merleggyar: *See—*
Tari, Gabor; Bereczki, Gabor; and Blaskovics, Ferenc, 4,700,691, Cl. 128-1.00R.
Metro, John G.: *See—*
Gontowski, Walter S., Jr.; Metro, John G.; and Yole, Steven S., 4,670,721, Cl. 331-44.000.
Metro Plastic Industry Pte. Ltd.: *See—*
Heng, Cheng K., 4,657,148, Cl. 211-128.000.
Metro, Stephen J.; and Carr, Dale D., to Exxon Research and Engineering Company. Sea water resistant turbo oil. 4,655,946, 4-7-87, Cl. 252-32.500.
Metrofone, Inc.: *See—*
West, William L., Jr.; and Shafer, James E., 4,658,096, Cl. 379-59.000.
Metrohm AG: *See—*
Kaempf, Karl; Zaehner, Paul; and Richter, Wolfgang, 4,715,237, Cl. 73-864.620.
Metrologic Instruments, Inc.: *See—*
Knowles, Carl H., 4,713,532, Cl. 235-467.000.
Metromedia Company: *See—*
Logan, David J., 4,680,596, Cl. 346-140.0PD.
Rich, Leonard G.; and Blake, Dale G., 4,700,205, Cl. 346-140.00R.
Metromedia, Inc.: *See—*
Logan, David J., 4,638,373, Cl. 358-298.000.
Rich, Leonard G.; and Blake, Dale G., 4,651,161, Cl. 346-1.100.
Metronic Electronic GmbH: *See—*
Bucher, Heinz, 4,660,548, Cl. 128-33.000.
Metropolitan Life Insurance Company: *See—*
Valentino, James A., 4,648,037, Cl. 364-408.000.
Metropolitan Mosquito Control District: *See—*
Sjogren, Robert D., 4,670,039, Cl. 71-34.000.
Metropolitan Stevedore Company: *See—*
Dudley, Jerry W.; and Andrich, Patrick J., 4,705,140, Cl. 182-3.000.
Metropolitan Wire Corporation: *See—*
Cohn, Robert J.; Olsson, Frank C.; Holzman, James W.; and Santarelli, Paul, 4,678,214, Cl. 292-213.000.
Metrosky, John J.: *See—*
Raymond, Dean; and Metrosky, John J., 4,715,599, Cl. 273-15.00R.
Mets, Inc.: *See—*
Gray, Donald R.; Green, Lawrence R., III; Gendler, Robert L.; and Carrott, John A., 4,651,157, Cl. 342-457.000.
Metschl, Michael: *See—*
Rohde, Wilhelm; Koch, Hannsjorg; and Metschl, Michael, 4,698,072, Cl. 55-31.000.
Metteer, N. Bruce: *See—*
Deem, Jake O.; Kassik, Ronald W.; and Metteer, N. Bruce, 4,715,001, Cl. 364-484.000.
Metteey, Michel: *See—*
Badoux, Jean-Paul; Chaix, Jean E.; and Metteey, Michel, 4,683,112, Cl. 376-402.000.
Chaix, Jean-Edmond; and Metteey, Michel, 4,640,537, Cl. 285-368.000.
Mettenbrink, Herbert: *See—*
Sieverding, Werner; Mettenbrink, Herbert; Pohlmann, Gunter; and Hackmann, Ludger, 4,708,267, Cl. 222-211.000.
Mettenleiter, Karl; Storandt, Ralf; and Scheck, Georg, to GEZE GmbH. Holding device for door closers. 4,663,800, 5-12-87, Cl. 16-51.000.
Mettenleiter, Karl: *See—*
Feucht, Fritz; Mettenleiter, Karl; and Storandt, Ralf, 4,653,229, Cl. 49-367.000.
Mettler, Fred A., Jr.: *See—*
Hylarides, Mark D.; and Mettler, Fred A., Jr., 4,676,932, Cl. 260-397.500.
Mettler Instrumente AG: *See—*
Daetwyler, Jurg, 4,651,441, Cl. 34-202.000.
Kunz, Peter, 4,674,582, Cl. 177-256.000.
Kunz, Peter, 4,705,127, Cl. 177-212.000.
Luchinger, Paul, 4,700,793, Cl. 177-181.000.
Luechinger, Paul, 4,676,327, Cl. 177-126.000.
Mettler, Karl, to Etablissement Supervis. Crankshaft assembly for small gasoline motors. 4,641,546, 2-10-87, Cl. 74-598.000.
Mettler, Karl; Oertle, Max; and Spottl, Hermann, to Etablissement Supervis. Variable length shaft assembly particularly for motor vehicle steering shafts. 4,667,530, 5-26-87, Cl. 74-493.000.
Mettler, Karl, to Etablissement Supervis. Pipe-type housing for a shock absorber particularly of the telescopic vibration damper type. 4,669,586, 6-2-87, Cl. 188-322.190.
Mettler, Paul: *See—*
Tengler, Hermann; and Mettler, Paul, 4,709,132, Cl. 219-110.000.
Mettoudi, Isaac, to Alcatel Thomson Faisceaux Hertziens. Frequency multiplier for millimeter waves having means for adjusting harmonic frequency. 4,636,758, 1-13-87, Cl. 333-218.000.
Metwaly, Mohamed F., to International Business Machines Corporation. Method and system for the generation of Arabic script. 4,670,842, 6-2-87, Cl. 364-419.000.
Metz, Arthur J., to Tektronix, Inc. Sampling bridge. 4,659,945, 4-21-87, Cl. 307-353.000.
Metz, Arthur J.; and Lamb, James S., to Tektronix, Inc. Serial digital-to-analog converter. 4,663,610, 5-5-87, Cl. 340-347.0DA.
Metz, Arthur J.: *See—*
Ainsworth, Walter W.; and Metz, Arthur J., 4,705,961, Cl. 307-228.000.
Metz, Bruce E., to Athena Controls Inc. Heat station for a heat sealing system. 4,641,482, 2-10-87, Cl. 53-388.000.
Metz, Charles L. Supinating barbells with means to set the force for rotatory motion. 4,690,400, 9-1-87, Cl. 272-123.000.
Metz, Hans J., to Hoechst Aktiengesellschaft. Process for the preparation of alkali metal and alkaline earth salts of benzaldehyde-2,4-di-sulfonic acid. 4,710,322, 12-1-87, Cl. 260-511.000.
Metz, Hans J., to Hoechst Aktiengesellschaft. Process for the preparation of alkali metal and alkaline earth salts of benzaldehyde-2,4-disulfonic acid. 4,715,995, 12-29-87, Cl. 260-511.000.
Metz, Hans-Ulrich: *See—*
Buder, Eckart; Metz, Hans-Ulrich; and Ubermeier, Dieter, 4,678,726, Cl. 429-68.000.
Metz, Josef; Pehker, Manfred; and Zielinski, Erich, to Rheinmetall GmbH. Automatic loader for an armored vehicle having a rotatable turret. 4,690,031, 9-1-87, Cl. 89-36.130.
Metz, Josef: *See—*
Heintz, Wolfgang; Pehker, Manfred; and Metz, Josef, 4,638,714, Cl. 89-37.010.
Pehker, Manfred; Pahlke, Edelgard; and Metz, Josef, 4,693,166, Cl. 89-34.000.
Metz, Joseph R., to Norco,Inc. Panel fastener. 4,692,075, 9-8-87, Cl. 411-7.000.
Metz, Joseph S.: *See—*
Oliva, Raymond A.; and Metz, Joseph S., 4,701,946, Cl. 379-98.000.
Metz, Laurens, to Polynorm, N.V. Frame for door or window opening. 4,637,183, 1-20-87, Cl. 52-217.000.
Metz, Marcus C., to Chrysler Motors Corporation. Automatic power door lock system. 4,709,776, 12-1-87, Cl. 180-281.000.
Metz, Marcus C., to Chrysler Motors Corporation. Vehicle power door locks, ignition key interlock system therefor. 4,709,777, 12-1-87, Cl. 180-286.000.
Metz, Peter, to Hydrotherm Geraethebau GmbH. Gas fired heating boiler. 4,644,904, 2-24-87, Cl. 122-13.00R.
Metz, Pierre, to Thomson Brandt Armements. Gas propellor for guided missile. 4,637,572, 1-20-87, Cl. 244-3.220.
Metz, Pierre; and Antonicelli, Marc, to Thomson Brandt Armements. Homing device for guided missiles using side nozzles. 4,712,747, 12-15-87, Cl. 244-3.220.
Metz, Werner A., Jr.; Szluk, Nicholas J.; Miller, Gayle W.; Drury, Michael J.; and Sullivan, Paul A., to NCR Corporation. Use of selectively deposited tungsten for contact formation and shunting metallization. 4,648,175, 3-10-87, Cl. 29-589.000.
Metz, Werner A., Jr.: *See—*
Collins, George J.; and Metz, Werner A., Jr., 4,666,557, Cl. 156-643.000.
Miller, Gayle W.; Szluk, Nicholas J.; Maheras, George; and Metz, Werner A., Jr., 4,682,404, Cl. 29-571.000.
Szluk, Nicholas J.; Metz, Werner A., Jr.; Miller, Gayle W.; and Moll, Maurice M., 4,647,340, Cl. 156-662.000.
Metzdorf, Walter: *See—*
Eibert, Max; Lux, Peter; and Metzdorf, Walter, 4,701,047, Cl. 356-1.000.
Metzdorff, Walter; Lux, Peter; and Eibert, Max, to Dornier GmbH. Acquisition of range images. 4,708,473, 11-24-87, Cl. 356-5.000.
Metzeler Kautschuk GmbH: *See—*
Andra, Rainer; and Hofmann, Manfred, 4,650,168, Cl. 267-140.100.
Andra, Rainer, 4,693,455, Cl. 267-140.100.

Andra, Rainer; and Hofman, Manfred, 4,700,934, Cl. 267-140.100.
Andra, Rainer; and Hofmann, Manfred, 4,711,206, Cl. 123-192.00R.
Bitschkus, Horst; Hofmann, Manfred; and Nelles, Uwe, 4,667,942, Cl. 267-140.100.
Brachmann, Walter, 4,656,784, Cl. 49-491.000.
Ghibu, Michael; Hartel, Volker; Heynemann, Carl; and Raubach, Manfred, 4,683,979, Cl. 181-286.000.
Goossens, John; Oppermann, Gunter; Grape, Wolfgang; and Hartel, Volker, 4,645,614, Cl. 252-75.000.
Goossens, John; Oppermann, Gunter; Podszun, Wolfgang; and Hartel, Volker, 4,668,417, Cl. 252-75.000.
Hofmann, Manfred; and Sciortino, Giacomo, 4,643,405, Cl. 267-8.00R.
Hofmann, Manfred, 4,657,227, Cl. 267-8.00R.
Hofmann, Manfred; and Muller, Hans, 4,676,489, Cl. 267-140.100.
Hofmann, Manfred; Muller, Hans; and Waldecker, Ralf, 4,681,306, Cl. 267-140.100.

Metzger, Carl; Eue, Ludwig; and Hack, Helmuth, to Bayer Aktiengesellschaft. N-substituted 5-amino-1,3,4-thiadiazoles. 4,639,526, 1-27-87, Cl. 548-140.000.

Metzger, David B.; Johnson, Glenn S.; and Bramel, Michael D., to General Motors Corporation. Method and apparatus for screen printing solder paste onto a substrate with device premounted thereon. 4,678,531, 7-7-87, Cl. 156-250.000.

Metzger, James I., Jr.: *See*—
Claghorn, Roger O.; and Metzger, James I., Jr., 4,700,031, Cl. 200-153.0LA.

Metzger, James J., Jr.: *See*—
Steiner, Robert E.; Cox, Karmen D.; Terpstra, Daniel A.; Metzger, James J., Jr.; and Plume, Steven H., 4,641,557, Cl. 83-71.000.

Metzger, Karl G.: *See*—
Angerbauer, Rolf; Boberg, Michael; Metzger, Karl G., and Zeiler, Hans-Joachim, 4,686,216, Cl. 514-202.000.
Benz, Gunter; Metzger, Karl G.; Pfitzner, Jorg; Schmidt, Delf; and Zeiler, Hans-Joachim, 4,670,542, Cl. 530-331.000.
Grohe, Klaus; Klimetzek, Volker; Metzger, Karl G.; Stunkel, Klaus G.; and Zeiler, Hans-Joachim, 4,659,603, Cl. 424-88.000.
Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl G., 4,666,920, Cl. 514-312.000.
Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl G., 4,670,444, Cl. 514-300.000.
Kruger, Bernd-Wieland; Hayauchi, Yutaka; Lockhoff, Oswald; Stadler, Peter; Metzger, Karl G.; Stunkel, Klaus G.; and Zeiler, Hans-Joachim, 4,699,899, Cl. 514-42.000.
Kruger, Bernd-Wieland; Lockhoff, Oswald; Metzger, Karl G.; Opitz, Hans-Georg; Schaller, Klaus; Stunkel, Klaus G.; and Zeiler, Hans-Joachim, 4,716,152, Cl. 514-25.000.
Petersen, Uwe; Grohe, Klaus; Zeiler, Hans-Joachim, and Metzger, Karl G., 4,703,047, Cl. 514-254.000.
Schriewer, Michael; Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl G., 4,705,788, Cl. 514-254.000.

Metzger, Karl-Georg: *See*—
Lockhoff, Oswald; Kruger, Bernd-Wieland; Stadler, Peter; Paessens, Arnold; Streissle, Gert; Taylor, Peter; Zeiler, Hans-Joachim; and Metzger, Karl-Georg, 4,686,208, Cl. 514-42.000.

Metzler, Robert M.: *See*—
Lord, Gary E.; Metzler, Robert M.; and Wirth, David D., 4,703,118, Cl. 540-224.000.

Metzner, Frank: *See*—
Reinhardt, Peter; Nikolaus, Heinrich; and Metzner, Frank, 4,688,380, Cl. 60-420.000.

Metzner, Klaus; Westphal, Detlef; Allendorfer, Wolfgang; Hahnel, Reinhard; and Polaschegg, Hans-Dietrich, to Fresenius AG. Apparatus for the drawing off of untreated and treated dialyzing liquid and/or blood from a dialysis device. 4,662,208, 5-5-87, Cl. 73-1.00R.

Metzner, Uwe: *See*—
Kupec, Peter; Metzner, Uwe; and Thilo, Peer, 4,684,932, Cl. 340-564.000.

Meuleman, Hermanus J.: *See*—
Krans, Peter; and Meuleman, Hermanus J., 4,679,528, Cl. 122-367.00C.

Meuleman, Jean-Jacques: *See*—
Duc, Michel; Montreuil, Philippe; and Meuleman, Jean-Jacques, 4,682,294, Cl. 364-492.000.

Meuleman, Lambertus J.; and Valster, Adriaan, to U.S. Philips Corporation. Double heterojunction semiconductor laser having improved high-frequency characteristics. 4,677,634, 6-30-87, Cl. 372-46.000.

Meulen, Antonius M., to Stork Screens B.V. Method and apparatus for the manufacture of a screen roller. 4,641,411, 2-10-87, Cl. 29-424.000.

Meulendyk, John W.: *See*—
Vanderlaan, Robert D.; and Meulendyk, John W., 4,672,992, Cl. 137-331.000.

Meuli, Michael G.; and Knauf, Gary H., to Kimberly-Clark Corporation. Method for adhering curved tensioned elastic strips to a gatherable base material and the article produced. 4,675,016, 6-23-87, Cl. 604-385.00A.

Meulman, Paul A.: *See*—
Tiffany, Burris D.; Nichols, Steve; Meulman, Paul A.; Hylton, Thomas A.; and Lipton, Michael F., 4,684,725, Cl. 540-565.000.

Meunier, Jean: *See*—
Huret, Noel; and Meunier, Jean, 4,650,644, Cl. 419-11.000.

Meurer, Donald W.: *See*—
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Meurer Druck & Carton GmbH: *See*—
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Meurer, Wilhelm K. Seatbelt cutter. 4,680,861, 7-21-87, Cl. 30-296.00A.

Meurer, Wolfgang: *See*—
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Meurice, Pierre: *See*—
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Meurs, Jan H. H.; and Sopher, David W., to Shell Oil Company. Preparation of 4,4-disubstituted cyclohexadienones. 4,663,487, 5-5-87, Cl. 568-362.000.

Meuschke, Robert E.; and Hornak, Leonard P., to Westinghouse Electric Corp. Fuel assembly unlatching and handling gripper. 4,647,424, 3-3-87, Cl. 376-264.000.

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Meuschke, Robert E., to Westinghouse Electric Corp. Ice basket cruciform removal tool. 4,659,068, 4-21-87, Cl. 266-55.000.

Meuschke, Robert E.; and Mazza, Gregory E., to Westinghouse Electric Corp. Ice removal auger for ice condenser containment. 4,662,023, 5-5-87, Cl. 15-104.120.

Meuschke, Robert E., to Westinghouse Electric Corp. Refueling of nuclear reactors. 4,666,658, 5-19-87, Cl. 376-263.000.

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Hornak, Leonard P.; Meuschke, Robert E.; and Marshall, James R., 4,643,867, Cl. 376-248.000.

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Leo, Rolf; Meusel, Karl-Heinz; and Uttner, Alfred, 4,696,506, Cl. 295-38.000.

Meusel, Otto; Seidel, Siegfried; Muench, Heinz-Dieter; and Deinhardt, Guenther, to Siemens Aktiengesellschaft. Electrical installation comprised of individual assemblies. 4,672,511, 6-9-87, Cl. 361-415.000.

Mevel, Jean-Claude: *See*—
Bessouat, Roger; Mevel, Jean-Claude; and Vandycke, Michel, 4,667,733, Cl. 165-134.100.
Vidal, Jean; Malaubier, Francois; and Mevel, Jean-Claude, 4,690,075, Cl. 110-264.000.

Mevissen, Peter: *See*—
Pabst, Manfred; and Mevissen, Peter, 4,693,013, Cl. 34-4.000.

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Mewshaw, Richard E.; and Commons, Thomas J., to American Home Products Corporation. Beta-lactams substituted at C-4 with substituted aminooxymethyl. 4,709,025, 11-24-87, Cl. 540-355.000.

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Eschwey, Manfred; and van Bonn, Rolf, 4,701,290, Cl. 264-40.100.

Meyer, Adolf; Steinegger, Helmut; Pachow, Ulrich; and Pfeifer, Manfred, to Heidelberger Zement AG. Method for the continuous production of plates of fibre reinforced concrete. 4,655,982, 4-7-87, Cl. 264-166.000.

Meyer, Adolf J.: *See*—
Guthling, Klaus; Meyer, Adolf J.; and Miethe, Manfred, 4,641,576, Cl. 101-415.100.

Meyer, Alfred: *See*—
Frick, Willy; Meyer, Alfred; and Nyfeler, Robert, 4,657,921, Cl. 514-383.000.
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Meyer-Bosse, Jurgen, to Karl Becker GmbH u. Co. KG Maschinenfabrik. Apparatus for separating and distributing granular goods. 4,650,093, 3-17-87, Cl. 221-233.000.

Meyer, Bruno, to Valutec AG. Collapsible wheelchair and wheelchair structure. 4,684,149, 8-4-87, Cl. 280-650.000.

Meyer & Burger AG: *See*—
Zobeli, Armin, 4,653,361, Cl. 82-48.000.

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Meyer, Charles S.: *See*—
Shapiro, Garry R.; and Meyer, Charles S., 4,661,948, Cl. 370-77.000.

Meyer, Christopher D., to Allied Corporation. Quick disconnect three point safety restraint system. 4,702,491, 10-27-87, Cl. 280-801.000.

, to Communications Systems, Inc. Indoor telephone line box having several compartments. 4,700,384, 10-13-87, 000.

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A.; Tasson, Brian B.; Vollmer, Robert F.; and Warren, J. oneywell Inc. Cased telescoped ammunition. 4,691,638, 02-434.000.

E.: *See—*
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L. Throwing toy and method of manufacture. 4,696,472, 273-58.00A.

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F., to Town Talk, Inc. Cap having stiffeners. 4,691,389, 195.000.

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., to Ciba-Geigy Corporation. 4-Heterocyclylvinyl-4- yls. 4,666,627, 5-19-87, Cl. 252-301.220.

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Rolf; Jeromin, Lutz; Johannsbauer, Wilhelm; Meyer, Michel, Otto; and Plachenka, Juergen, 4,655,879, Cl. 0.

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Franckowiak, Gerhard; Rosentreter, Ulrich; Gross, aas, Gunter; Schramm, Matthias; Kayser, Michael; l; Perzborn, Elisabeth; and Bechem, Martin, to Bayer Aktiengesellschaft. Circulation active dihydropyridine-3-carboxamides. 4,707,479, 11-17-87, Cl. 514-222.000.

Meyer, Horst: *See—*
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Ingendoh, Axel; Meyer, Horst; and Garthoff, Bernward, 4,703,125, Cl. 548-126.000.
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Landwehr, Gunter; and Meyer, Horst, 4,664,045, Cl. 112-153.000.
Niemers, Ekkehard; Grutzmann, Rudi; Mardin, Mithat; Busse, Wolf-Dieter; and Meyer, Horst, 4,636,497, Cl. 514-215.000.
Wehinger, Egbert; and Meyer, Horst, 4,703,119, Cl. 540-544.000.
Wehinger, Egbert; Meyer, Horst; and Benz, Ulrich, 4,705,794, Cl. 514-302.000.

Meyer, Inge: *See—*
Leuba, Jean-Louis; Meyer, Inge; and Andersen, Else M., 4,701,339, Cl. 426-643.000.

Meyer, Jack D.: *See—*
Collins, George J.; Rocca, Jorge J.; and Meyer, Jack D., 4,641,316, Cl. 372-74.000.

Meyer, Jeffry R.; Munroe, Albert P.; and Bolin, Philip C., to Westinghouse Electric Corp. Gas insulated transmission line with simplified insulator assembly and method of assembling same. 4,711,973, 12-8-87, Cl. 174-14.00R.

Meyer, Jeffry R.: *See—*
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Meyer, Joachim: *See—*
Duewelhenke, Rainer; and Meyer, Joachim, 4,651,937, Cl. 242-45.000.

Meyer, John D.: *See—*
Dispoto, Gary J.; Mather, Larry R.; and Meyer, John D., 4,680,645, Cl. 358-298.000.

Meyer, John L. Turf harvester. 4,674,577, 6-23-87, Cl. 172-20.000.

Meyer, Jon A.: *See—*
Johnston, Andrew E.; Meyer, Jon A.; and Miller, Ronald, 4,704,075, Cl. 417-407.000.

Meyer, Joseph H.: *See—*
Scheuneman, James H.; Meyer, Joseph H.; and Mackenthun, Donald W., 4,697,233, Cl. 364-200.000.

Meyer, Karen M.: *See—*
Fornuto, Joseph; Gifford, William E.; and Meyer, Karen M., 4,683,862, Cl. 123-520.000.

Meyer, Karl-Heinrich: *See—*
Alewelt, Wolfgang; Eisermann, Wolfgang; Meyer, Karl-Heinrich; Tresper, Erhard; and Ullrich, Martin, 4,639,507, Cl. 528-388.000.

Meyer-Kretschmer, Gustav: *See—*
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Meyer, Larry P., to Nelson Irrigation Corporation. Large volume sprinkler head with part-circle step by step movements in both directions. 4,669,663, 6-2-87, Cl. 239-230.000.

Meyer, Larry P.: *See—*
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Meyer, Lawrence L.; and Bredbeck, Donald H., to Phillips Home Products. Sprocket and tape combination. 4,643,701, 2-17-87, Cl. 474-153.000.

Meyer, Lee G.: *See—*
Meyer, Edmond G.; and Meyer, Lee G., 4,671,800, Cl. 44-51.000.
Meyer, Edmond G.; and Meyer, Lee G., 4,685,936, Cl. 44-51.000.
Meyer, Edmond G.; and Meyer, Lee G., 4,702,747, Cl. 44-51.000.
Meyer, Edmond G.; and Meyer, Lee G., 4,704,134, Cl. 44-51.000.

Meyer, Manfred: *See—*
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Meyer, Marco M. Apparatus for producing thin portions of pasta filata cheese. 4,665,811, 5-19-87, Cl. 99-455.000.

Meyer, Martin S.: *See—*
Eesley, Gary L.; Mance, Andrew M.; and Meyer, Martin S., 4,637,862, Cl. 204-15.000.

Meyer, Marvin G., to Sukup Manufacturing Company. Sweep auger apparatus. 4,701,093, 10-20-87, Cl. 414-312.000.

Meyer, Norbert: *See—*
Becker, Rainer; Jahn, Dieter; Schirmer, Ulrich; Keil, Michael; Wuerzer, Bruno; and Meyer, Norbert, 4,650,513, Cl. 71-88.000.
Janssen, Bernd; Karbach, Stefan; Meyer, Norbert; and Laur, Gerhard, 4,652,580, Cl. 514-383.000.
Janssen, Bernd; Meyer, Norbert; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Kohlmann, Friedrich-Wilhelm; Wesenberg, Walter; and Heberle, Wolfgang, 4,670,454, Cl. 514-383.000.
Keil, Michael; Jahn, Dieter; Becker, Rainer; Goetz, Norbert; Wuerzer, Bruno; and Meyer, Norbert, 4,659,367, Cl. 91-90.000.
Keil, Michael; Schirmer, Ulrich; Jahn, Dieter; Becker, Rainer; Wuerzer, Bruno; and Meyer, Norbert, 4,692,553, Cl. 564-185.000.
Kiehs, Karl; Wuerzer, Bruno; and Meyer, Norbert, 4,689,068, Cl. 71-86.000.
Kiehs, Karl; Wurzer, Bruno; and Meyer, Norbert, 4,692,187, Cl. 71-107.000.

Meyer, Peter. Device for wireless video monitoring and control of a still camera. 4,716,465, 12-29-87, Cl. 358-210.000.

Meyer, Peter: *See—*
Frommann, Klaus; Skoda, Ulrich; and Meyer, Peter, 4,698,897, Cl. 29-527.700.

Meyer, Philippe, to Cegedur Societe de Transformation de l'Aluminium Pechiney. Process for producing products of Al-Li-Mg-Cu alloys

having high levels of ductility and isotropy. 4,652,314, 3-24-87, Cl. 148-2.000.
Meyer, Philippus J., to Sasol Operations (Proprietary) Limited. Gasification of coal. 4,643,109, 2-17-87, Cl. 110-229.000.
Meyer, Pio. Sample taking device. 4,669,321, 6-2-87, Cl. 73-863.850.
Meyer-Pittroff, Roland, to Kraftwerk Union Aktiengesellschaft. Evaporation cooling tower. 4,662,902, 5-5-87, Cl. 55-122.000.
Meyer, Richard A.; and Lowe, Anthony E., to MTS Systems Corporation. Multiple axis load sensitive transducer. 4,640,138, 2-3-87, Cl. 73-862.040.
Meyer, Robert A.: *See*—
Sanderson, John R.; Marquis, Edward T.; Meyer, Robert A.; and Renken, Terry L., 4,704,482, Cl. 568-922.000.
Meyer, Rolf: *See*—
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Meyer, Rolf-Volker; Fahnler, Friedrich; Dhein, Rolf; and Michael, Dietrich, to Bayer Aktiengesellschaft. Activated anionic polymerization of lactams. 4,684,746, 8-4-87, Cl. 564-38.000.
Meyer, Rolf-Volker; Kreuder, Hans-Joachim; and Hohl, Erwin, to Bayer Aktiengesellschaft. Cyclic amidines useful as catalysts in the hardening of epoxide resins. 4,698,426, 10-6-87, Cl. 544-253.000.
Meyer, Rolf-Volker: *See*—
Mussig, Bernhard; Meyer, Rolf-Volker; and Brassat, Bert, 4,677,156, Cl. 525-425.000.
von Bittera, Miklos; Meyer, Rolf-Volker; and Dhein, Rolf, 4,661,104, Cl. 604-896.000.
Meyer, Steven D., and Raven, Peter B., to Texas College of Osteopathic Medicine. Self-contained breathing apparatus. 4,640,277, 2-3-87, Cl. 128-204.230.
Meyer, Steven M.; Morrison, R. Scott; and Morrison, Howard J., to Marvin Glass & Associates. Video game in which a host image repels ravenous images by serving filled vessels. 4,643,421, 2-17-87, Cl. 273-1.00E.
Meyer, Thomas J.; O'Toole, Terrence R.; Margerum, Lawrence D.; Westmoreland, T. David; Vining, William J.; Murray, Royce W.; and Sullivan, B. Patrick, to Gas Research Institute. Chemically modified electrodes for the catalytic reduction of CO_2. 4,711,708, 12-8-87, Cl. 204-280.000.
Meyer, Urs P., to Grieskamp, Hannspeter. Sail rig. 4,665,854, 5-19-87, Cl. 114-39.000.
Meyer, Vernis H.; and Schlueter, Francis E. Cylinder-mounted rotary valve. 4,706,710, 11-17-87, Cl. 137-625.470.
Meyer, Victor E.: *See*—
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Meyer, Walter E., to Schenck Pegasus. Testing apparatus with improved follower mechanism. 4,672,844, 6-16-87, Cl. 73-118.100.
Meyer, Walter E.: *See*—
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Meyer, Wesley L.: *See*—
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Meyer, Willibald; and Wawersig, Jurgen, to Siemens Aktiengesellschaft. Integrated dynamic write-read memory with a decoder blocking the data path from the memory matrix. 4,635,190, 1-6-87, Cl. 365-200.000.
Meyer, Willy; and Fory, Werner, to Ciba-Geigy Corporation. Herbicidal sulfonylureas. 4,643,760, 2-17-87, Cl. 71-92.000.
Meyer, Willy; Fory, Werner; and Topfl, Werner, to Ciba-Geigy Corporation. Certain sulfonyl carbamate on thiocarbamate intermediates. 4,668,800, 5-26-87, Cl. 549-63.000.
Meyer, Willy; and Oertle, Konrad, to Ciba-Geigy Corporation. N-phenylsulfonyl-N'-triazinylureas. 4,671,819, 6-9-87, Cl. 71-93.000.
Meyer, Willy; and Fory, Werner, to Ciba-Geigy Corporation. N-phenylsulfonyl-N'-pyrimidinylureas. 4,681,619, 7-21-87, Cl. 71-92.000.
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Meyer, Willy: *See*—
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Fory, Werner; Gass, Karl; and Meyer, Willy, 4,690,707, Cl. 71-93.000.
Gass, Karl; Fory, Werner; Meyer, Willy; and Topfl, Werner, 4,648,899, Cl. 71-93.000.
Maier, Ludwig; Meyer, Willy; Oertle, Konrad; Roloff, Achim; and Topfl, Werner, 4,677,217, Cl. 558-190.000.
Schurter, Rolf; Thummel, Rudolph C.; Topfl, Werner; Meyer, Willy; and Durr, Dieter, 4,664,695, Cl. 71-92.000.
Topfl, Werner; Meyer, Willy; and Schneider, Hans-Dieter, 4,685,961, Cl. 71-92.000.
Meyer, Wolfgang K.: *See*—
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Meyerhoff, Mark E.; Fogt, Eric J.; and Untereker, Darrel F., to Medtronic, Inc. Gas sensor. 4,694,834, 9-22-87, Cl. 128-635.000.
Meyering, Mark T.: *See*—
Barnes, Robert G., Jr.; and Meyering, Mark T., 4,645,602, Cl. 210-490.000.
Barnes, Robert G., Jr.; and Meyering, Mark T., 4,707,265, Cl. 210-638.000.
Meyers, Andrew; Minkoff, Jeffrey; and Langevin, David, to Sports Protective Orthotics Ltd. Shoulder pad brace. 4,654,893, 4-7-87, Cl. 2-2.000.
Meyers, Ben E.: *See*—
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Meyers, Benjamin L.: *See*—
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Meyers, Bernard L.: *See*—
Edwards, Robert C.; and Meyers, Bernard L., 4,652,543, Cl. 502-209.000.
Meyers, Brad E. Invisible light beam projector and night vision system. 4,707,595, 11-17-87, Cl. 250-504.00R.
Meyers, George N., Jr. Motor vehicle headlight indicator. 4,642,737, 2-10-87, Cl. 362-61.000.
Meyers, John: *See*—
Bohl, Aleck; Meyers, John; and Valdez, Leandro, 4,714,178, Cl. 222-107.000.
Meyers, Kenneth C.: *See*—
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Meyers, Kevin O.: *See*—
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Meyers, Lawrence J.: *See*—
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Meyers, Paul A.: *See*—
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Dorman, Linneaus C.; and Meyers, Paul A., 4,636,526, Cl. 521-61.000.
Dorman, Linneaus C.; and Meyers, Paul A., 4,661,536, Cl. 523-113.000.
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Meyers, Paul F., to Technicare Corporation. Ultrasonic transducer probe assembly. 4,688,576, 8-25-87, Cl. 128-660.000.
Meyers, Paul F.: *See*—
Dow, Julian; and Meyers, Paul F., 4,649,925, Cl. 128-660.000.
Meyers, Peter V.; Liu, Chung-Heng; and Frey, Timothy J., to Ametek, Inc. Heterojunction p-i-n photovoltaic cell. 4,710,589, 12-1-87, Cl. 136-258.0PC.
Meyers, Phillip H., to E-Z-EM, Inc. Protective sheet. 4,670,658, 6-2-87, Cl. 250-519.100.
Meyers, Pierre; and Meister, Klaus. Coded key-type locking system. 4,706,084, 11-10-87, Cl. 340-825.310.
Meyers, Roger A. Infant seat. 4,700,988, 10-20-87, Cl. 297-254.000.
Meyers, Theodore F. Dishwashing method. 4,673,441, 6-16-87, Cl. 134-18.000.
Meyers, Theodore W.: *See*—
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Meyers, Thomas J., to NCR Corporation. CCD bar code scanner. 4,710,615, 12-1-87, Cl. 235-454.000.
Meyers, Vera K.; and Koman, Ahmet. Weight control method. 4,678,779, 7-7-87, Cl. 514-176.000.
Meyers, William E.: *See*—
Magrath, Joseph M.; Tice, Thomas R.; Meyers, William E.; and Dappert, Thomas O., 4,696,258, Cl. 119-1.000.
Meyerson, Bernard S.; Joshi, Rajiv V.; Rosenberg, Robert; and Patel, Vishnubhai V., to International Business Machines Corporation. Silicon/carbon protection of metallic magnetic structures. 4,647,494, 3-3-87, Cl. 428-216.000.
Meyerson, Bernard S.: *See*—
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Meylan, Jean-Jacques: *See*—
Pedersen, Morten C.; and Meylan, Jean-Jacques, 4,688,362, Cl. 52-227.000.
Meyle, William H.; and Wendt, Paul H., to Zenith Electronics Corporation. Apparatus and method for shadow mask insertion. 4,639,230, 1-27-87, Cl. 445-30.000.
Meyman, Usher. Rotary engine. 4,640,242, 2-3-87, Cl. 123-246.000.
Meyman, Usher. Automatic transmission utilizing gyroscopic satellite gears. 4,641,550, 2-10-87, Cl. 74-751.000.
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Meyn, Pieter. Apparatus for orienting eggs in a egg handling systems. 4,645,058, 2-24-87, Cl. 198-400.000.
Meyn, Pieter. Method and apparatus for removing the breast flesh from a poultry carcass. 4,648,156, 3-10-87, Cl. 17-46.000.
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Meyner, Guy, to Bendix France. Disc brake. 4,645,038, 2-24-87, Cl. 188-71.900.
Meyrand, Gabriel, to C.G.R. MeV. Cyclotron with focussing-defocussing system. 4,639,634, 1-27-87, Cl. 313-62.000.
Mez, Georg. Orange peeler. 4,649,645, 3-17-87, Cl. 30-123.700.
Mezaki, Masakazu: *See*—
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Mezger, Dieter; Harsch, Georg; and Flachenecker, Gert, to C. & E. Fein GmbH & Co. Knife for cutting through the adhesive that fastens a window pane in place. 4,700,478, 10-20-87, Cl. 30-294.000.

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eskoi Osnastki: *See—*
Vasily D.; Kolganenko, Vladimir V.; Tsaregradsky,
V.; Darovsky, Vladimir G.; and Titov, Boris K.,
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s, Inc.: *See—*
m F., 4,661,976, Cl. 379-354.000.
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Sudhir R., 4,643,402, Cl. 266-82.000.
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lichael S.; and Ingham, Vernon R., 4,642,007, Cl.
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ichael S., 4,662,654, Cl. 285-18.000.
ward J.; and Brodbeck, Howard D., 4,643,401, Cl.
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oland P.; and Martin, Raymond G., 4,708,358, Cl.
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rd J., 4,696,715, Cl. 156-568.000.
s, Inc.: *See—*
Myron; and Baumann, James A., 4,657,150, Cl.
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hn J., Sr.; Glickman, Myron; George, Thazhu-
V.; and Ermel, Bernard A., 4,715,762, Cl. 414-126.000.
lliam P.; Lanigan, John J., Jr.; and Glickman, Myron,
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ction A/S: *See—*
-Ole, 4,640,489, Cl. 249-122.000.
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rence D.; and Miale, Joseph N., 4,638,105, Cl.
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rence D.; and Miale, Joseph N., 4,645,864, Cl.
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rence D.; and Miale, Joseph N., 4,665,248, Cl.
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rence D.; and Miale, Joseph N., 4,665,255, Cl.
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nce D.; Chu, Cynthia T. W.; and Miale, Joseph N.,
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rence D.; and Miale, Joseph N., 4,678,763, Cl.
rence D.; and Miale, Joseph N., 4,711,970, Cl.
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Garage door screen system. 4,653,566, 3-31-87, Cl.
ng and Engineering Co., Ltd.: *See—*
ichi; Yoshikawa, Shokichiro; and Hirai, Akira,
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st P.; McMurry, Clifton B.; and Miaskoff, Leonard,
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; and Petery, James J., to Xerox Corporation. Feature
l. 4,691,317, 9-1-87. Cl. 371-20.000.
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Manfred; and Fischer, Bruno, 4,679,312, Cl.
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,708,297, Cl. 242-7.05B.
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J., to Koh-I-Noor Rapidograph, Inc. Pigment encap-
queous colorant dispersions. 4,665,107, 5-12-87, Cl.
, to Leeds and Micallef. Universal sequential dispens-
n. 4,674,659, 6-23-87, Cl. 222-148.000.
olex and Regie Nationale des Uines Renault. Electri-
valve with piezoelectric effect. 4,684,104, 8-4-87, Cl.
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Miccioli, William F.; Chinchillo, A. Robert; and Toth,
'00,193, Cl. 342-427.000.
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acid and a method for preparing said compound.
17, Cl. 435-188.000.
C-Tek Limited Partnership. Eccentricity adjustment
3, 5-19-87, Cl. 409-234.000.
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Micetich, Ronald G.; Yamabe, Shigeru; Tanaka, Motoaki; Yamazaki, Tomio; Ishida, Naobumi; and Kajitani, Makoto, to Taiho Pharmaceutical Company Limited. Penicillin derivatives. 4,668,514, 5-26-87, Cl. 424-114.000.
Mich, Thomas F.; Domagala, John M.; and Nichols, Jeffrey B., to Warner-Lambert Company. Trifluoro- quinoline -3- carboxylic acids and their use as anti-bacterial agents. 4,657,913, 4-14-87, Cl. 514-275.000.
Mich, Thomas F.; Sanchez, Joseph P.; Domagala, John M.; and Trehan, Ashok K., to Warner-Lambert Company. 1-cyclopropyl-6,7-dihalo-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid and their esters, useful as intermediates for preparing the 7-amine substituted naphthyridines. 4,663,457, 5-5-87, Cl. 546-123.000.
Mich, Thomas F.; and Heifetz, Carl L., to Warner-Lambert Company. Ophthalmic use of quinolone antibiotics. 4,692,454, 9-8-87, Cl. 514-312.000.
Mich, Thomas F.: *See—*
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Nielinger, Werner; Michael, Dietrich; Fullmann, Heinz-Josef; Binsack, Rudolf; and Selbeck, Harald, 4,670,487, Cl. 524-80.000.
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Michael, Jeffrey D.; and Ross, Barry C., to Hoechst UK Limited. Bis-imido carbonate sulphones. 4,650,893, 3-17-87, Cl. 558-6.000.
Michael, Jeffrey D.: *See—*
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Michael, John P.: *See—*
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Michael, Mark S.; and Glaze, Scott A., to Fort Wayne Metals Research Products Corporation. Surgeon's Gigli saw and method. 4,709,699, 12-1-87, Cl. 128-317.000.
Michael, Mark W.: *See—*
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Michael, Norman, to Westinghouse Electric Corp. Zirconium pyrophosphate matrix layer for electrolyte in a fuel cell. 4,687,715, 8-18-87, Cl. 429-41.000.
Michael & Park's Trading and Sales, Inc.: *See—*
Yeu, Nam-Jin, 4,676,764, Cl. 446-298.000.
Michael, Richard A., to Deere & Company. Simplified power shift transmission. 4,658,672, 4-21-87, Cl. 74-759.000.
Michael, Richard W., to Phillips Petroleum Company. Dielectric constant detector capacitance matching. 4,673,869, 6-16-87, Cl. 324-61.00R.
Michael, Ulrich: *See—*
Edinger, Egon; Koetter, Joachim; Kraske, Dietmar; Krumrey, Klaus; Mayser, Joerg; and Michael, Ulrich, 4,667,403, Cl. 29-840.000.
Michael, Wolfgang: *See—*
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Michaelis, Theodore D., to RCA Corporation. Thermoelectric cooling system and method. 4,639,883, 1-27-87, Cl. 364-557.000.
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Michaels, Leonard H.; and Miller, Robert A., to Molex Incorporated. Environmentally sealed electrical connector. 4,707,047, 11-17-87, Cl. 439-271.000.
Michaels, Sid; and Silva, Pedro T., to Levi Strauss & Co. Method and apparatus for automatically hemming garments. 4,665,848, 5-19-87, Cl. 112-121.260.
Michaels, Sid; and Harvey, Glenn, to Levi Strauss & Co. Apparatus and method for automatically matching the cuffs of garments. 4,669,400, 6-2-87, Cl. 112-121.260.
Michaels, Sidney, to Clinton Industries, Inc. Pneumatically operated thread cutter. 4,672,902, 6-16-87, Cl. 112-287.000.
Michaels, Stephen L.: *See—*
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Michaelsen, Klaus: *See—*
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Michaelson, Robert C., to Exxon Chemical Patents Inc. Production of tertiary olefins. 4,691,073, 9-1-87, Cl. 585-639.000.
Michaelson, Robert C.; and Plotkin, Jeffrey S., to Exxon Chemical Patents Inc. Tertiary olefin process. 4,714,788, 12-22-87, Cl. 568-697.000.
Michaelson, Wayne A., to Unisys Corporation. High-performance pipelined stack with over-write protection. 4,674,032, 6-16-87, Cl. 364-200.000.

Michaely, William J., to Stauffer Chemical Company. N-(ortho-substituted) benzyl, 3-trifluoromethylphenoxy nicotinamides as herbicides. 4,692,185, 9-8-87, Cl. 71-94.000.
Michaely, William J.: *See*—
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Michal, Vratislav M.: *See*—
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Michalak, Stanislaw; Weber, Klaus-Dieter; and Meier, Jurgen, to L. & C. Steinmuller GmbH. Method of regulating the amount of reducing agent added during catalytic reduction of NO_x contained in flue gases. 4,681,746, 7-21-87, Cl. 423-239.000.
Michalek, Bernd: *See*—
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Michalek, Christopher P., to United States Gypsum Company. Foamed cast acoustical material and method. 4,655,950, 4-7-87, Cl. 252-62.000.
Michalik, Horst B., to Koenig & Bauer Aktiengesellschaft. Gear folder. 4,648,586, 3-10-87, Cl. 270-50.000.
Michalik, John K., to Cambridge Instrument Company plc, The. Automatic refractometer. 4,640,616, 2-3-87, Cl. 356-136.000.
Michalik, John K., to Warner Lambert Technologies, Inc. Signal processing for optical image sensor. 4,644,178, 2-17-87, Cl. 250-578.000.
Michalke, Klaus A., to Chrysler Motors Corporation. Windshield wiper extension mechanism. 4,641,390, 2-10-87, Cl. 15-250.230.
Michalski, Bernhard; Lau, Jurgen; and Berger, Wolfram, to Endress u. Hauser GmbH u. Co. Method and arrangement for signal transmission in ultrasonic echo sounding systems. 4,700,569, 10-20-87, Cl. 73-290.00V.
Michalski, David E., to Arachnid, Inc. Dart board with target plates structured as discrete grids. 4,706,962, 11-17-87, Cl. 273-347.000.
Michalski, Dennis H.; and Srinivasan, Viswanathan, to International Minerals & Chemical Corp. Process of removing cationic impurities from wet process phosphoric acid. 4,639,359, 1-27-87, Cl. 423-321.00R.
Michalski, Dennis H.: *See*—
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Michalski, Steven E., to Snap-on Tools Corporation. Digital timing light. 4,713,617, 12-15-87, Cl. 324-395.000.
Michard, Jean A.; and De Saint-Martin, Lucien, to Institut de Recherches de la Siderurgie Francaise. Method of operating a blast furnace with plasma heating. 4,707,183, 11-17-87, Cl. 75-10.220.
Michard, Laurent: *See*—
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Michas, Frederic. Test bench for the adjustment of electro-acoustic channels and particularly of devices for auditory correction. 4,674,123, 6-16-87, Cl. 381-60.000.
Michaud, Ghislain: *See*—
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Michaud, James A. Chuck for use in driving lag rods with a drill having a reversible motor. 4,684,138, 8-4-87, Cl. 279-7.000.
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Michaud, Mark: *See*—
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Michaud-Soret, Jean A., to Societe Nationale Industrielle et Aerospatiale. Electrically heated light-weight concrete mold. 4,659,056, 4-21-87, Cl. 249-78.000.
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Michel, Alain; and Gondard, Christian, to Centre National de la Recherche Scientifique. Process of cross-linking a halogenated polymer by means of a coupling agent based on thiolate. 4,647,629, 3-3-87, Cl. 525-350.000.
Michel, Alain H.: *See*—
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Michel, Armelin, to Machines Chambon S.A. Ink fountain incorporating individually regulated metering segments. 4,711,176, 12-8-87, Cl. 101-365.000.
Michel, Bernard, to Recherches B.C. Michel Inc. Ice berm for use as a foundation for an arctic offshore structure. 4,666,342, 5-19-87, Cl. 405-217.000.
Michel, Chazalon. Machine for trimming and disbudding vine shoots. 4,638,705, 1-27-87, Cl. 83-701.000.
Michel, Christian G.; Schachter, Rozalie; Kuck, Mark A.; Baumann, John A.; and Raccah, Paul M., to Stauffer Chemical Company. Doping of catenated phosphorus materials. 4,713,192, 12-15-87, Cl. 252-62.30R.
Michel, Christian G.: *See*—
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Michel, Dominique: *See*—
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Michel, France: *See*—
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Michel, Hartmut: *See*—
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Michel, Helmut; Marzenell, Klaus; Kampe, Wolfgang; Bartsch, Wolfgang; and Schaumann, Wolfgang, to Boehringer Mannheim GmbH. Indolin-2-one derivatives preparation thereof and intermediates for the preparation thereof. 4,642,309, 2-10-87, Cl. 514-269.000.
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Michel, Horst W. Apparatus for hardening cores and/or molds made of sand with the addition of hardenable binding agents. 4,644,994, 2-24-87, Cl. 164-12.000.
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Michel, James C. Toy bouncing ring. 4,687,210, 8-18-87, Cl. 273-425.000.
Michel, Jean, to Thomson -CSF. Class AB amplifier and a distortion corrector therefor. 4,682,119, 7-21-87, Cl. 330-149.000.
Michel, Jean-Georges: *See*—
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Michel, Karl H.; and Kastner, Ralph E., to Eli Lilly and Company. Microbial production of A41030 antibiotics. 4,713,331, 12-15-87, Cl. 435-68.000.
Michel, Karl H.: *See*—
Boeck, LaVerne D.; Clem, Gladys M.; Hershberger, Charles L.; Anderson, Marie T.; and Michel, Karl H., 4,663,282, Cl. 435-68.000.
Michel, Lucien P., to Ateliers de Conceptions et d'Innovations Industrielles. Preparation and renovation of a fusion roller for a xerographic machine, fusion roller and vulcanizable composition. 4,700,450, 10-20-87, Cl. 29-527.200.
Michel, Manfred: *See*—
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Schlogl, Gunter; Mack, Gerhard; and Michel, Manfred, 4,687,726, Cl. 430-175.000.
Michel, Otto: *See*—
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Michel, Pierre. Process for the preparation of cellular products and laminates based on furan prepolymers. 4,640,934, 2-3-87, Cl. 521-103.000.
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Michel, Thomas J., to Research Physics, Inc. Laser beam surgical system. 4,638,800, 1-27-87, Cl. 128-303.100.
Michel, Thomas J., to Data Medi-Card, Inc. Shielded diskette case. 4,643,308, 2-17-87, Cl. 206-444.000.
Michel, Thomas J., to Data Medi-Card, Inc. Laminated medical data card. 4,648,189, 3-10-87, Cl. 40-546.000.
Michel, Walter: *See*—
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Michel, Wolfgang; Paul, Heinz; Kostler, Dieter; Wilhelm, Frank; Rummel, Andreas; Seher, Gero; Henze, Wilfried; Hander, Ralf; Heinemann, Jurgen; and Ossowski, Manfred, to VEB Schwermaschinenbau "Karl Liebknecht" Magdeburg. Apparatus for multi-stage refining of organic bulk materials. 4,652,430, 3-24-87, Cl. 422-142.000.
Michele, Jurgen, to Grote, Paul. Spiral heat exchanger. 4,679,621, 7-14-87, Cl. 165-145.000.
Michelet, Jacques; and Maurer, Ghislain, to Institute de Recherches de la Siderurgie Francaise. Electric connecting device for contacting a molten metallic mass. 4,646,316, 2-24-87, Cl. 373-72.000.
Michelet, Jacques; and Maurer, Ghislain, to Institute de Recherches de la Siderurgie Francaise. Electrical connection device intended to be placed through the wall of an electrical direct-current metallurgical furnace. 4,685,112, 8-4-87, Cl. 373-72.000.

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J. Garment closure. 4,649,574, 3-17-87, Cl. 2-235.000.
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rt; and Michels, Kurt, 4,660,466, Cl. 99-294.000.
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E. Intraocular lens formed in situ within the eye.
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rles M.; Moscony, John J.; Michielutti, Thomas J.; and
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lidated Gas Company: *See*—
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l Products, Inc.: *See*—
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ological University, Board of Control of: *See*—
William A.; and Thayer, Duane M., 4,686,003, Cl.
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minobu, to Hitachi, Ltd. Method and apparatus for
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0-87, Cl. 342-22.000.
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d Sonoda, Shinji, to Hitachi, Ltd. Method and system
an object with a radio wave. 4,706,031, 11-10-87, Cl.
chi: *See*—
i; Izumita, Morishi; Michikawa, Yuichi; Katayama,
hiono, Hiroshi; Takagi, Hitoshi; Rokuda, Morito; and
ukazu, 4,682,115, Cl. 328-164.000.
ichi: *See*—
Masuo; Mita, Seiichi; Izumita, Morishi; Michikawa,
Rokuda, Morito; Katayama, Hitoshi; and Kanada,
4,670,797, Cl. 358-310.000.
Michioto, Takao: *See*—
Ikehata, Tsutomu; Masuda, Katsuya; Yasunaga, Makoto; and Michioto, Takao, 4,687,355, Cl. 400-124.000.
Michishige, Toru: *See*—
Nakama, Katsuhiko; Ninomiya, Hiroshi; Michishige, Toru; and Itsuki, Fumiaki, 4,709,976, Cl. 439-350.000.
Michiue, Kenji; Yagi, Toshihiko; Yamazaki, Katsumasa; Goto, Sohei; and Mochizuki, Yoshiharu, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide color photographic material having extended exposure range and improved graininess and stability to processing and time. 4,670,375, 6-2-87, Cl. 430-509.000.
Michiue, Kenji: *See*—
Mochizuki, Yoshihara; Goto, Sohei; Yagi, Toshihiko; Yamazaki, Katsumasa; and Michiue, Kenji, 4,639,410, Cl. 430-506.000.
Yagi, Toshihiko; Yamazaki, Katsumasa; Michiue, Kenji; Mochizuki, Yoshiharu; and Goto, Sohei, 4,686,176, Cl. 430-506.000.
Michiura, Yoshiharu: *See*—
Fujiki, Hiroyuki; Michiura, Yoshiharu; and Abe, Masafumi, 4,700,848, Cl. 211-63.000.
Michiyama, Hisao. Auxiliary pedal device for trick-cycling attached to the front fork blade of a bicycle. 4,638,682, 1-27-87, Cl. 74-560.000.
Michl, Jurgen: *See*—
Kersten, Gunther; Klauss, Walter; and Michl, Jurgen, 4,683,786, Cl. 82-2.00B.
Michler, Denis: *See*—
Catros, Jean-Yves; and Michler, Denis, 4,679,079, Cl. 358-135.000.
Michna, Martin: *See*—
Herd, Karl J.; and Michna, Martin, 4,638,054, Cl. 534-637.000.
Michno, Michael J., Jr.: *See*—
Gardner, Hugh C.; Michno, Michael J., Jr.; Brode, George L.; and Cotter, Robert J., 4,661,559, Cl. 525-65.000.
Madden, Paul R.; Kostanecki, Andrew T.; Mileos, George; and Michno, Michael J., Jr., 4,645,091, Cl. 220-85.00P.
Michon, Gerald J., to General Electric Company. CID image sensor with a preamplifier for each sensing array row. 4,689,688, 8-25-87, Cl. 358-213.310.
Michon, Gerald J.: *See*—
Burke, Hubert K.; and Michon, Gerald J., 4,681,440, Cl. 356-218.000.
Michon, John M. Lock for an oil field valve. 4,662,196, 5-5-87, Cl. 70-177.000.
MICI Limited Partnership IV: *See*—
Clausen, Earl W.; and Hubbard, Lloyd C., 4,643,641, Cl. 415-170.00A.
Micic, Liubomir; Fischer, Thomas; and Langenkamp, Ulrich, to ITT Industries, Inc. Method of correcting errors in bytes of teletext signals. 4,653,055, 3-24-87, Cl. 371-69.000.
Micinski, Edward, to Monsanto Company. Preparation of alkyl trifluoroacetoacetate. 4,647,689, 3-3-87, Cl. 560-174.000.
Mick, Felix W.: *See*—
Sauerwein, Kurt; Kinzer, Norbert; and Mick, Felix W., 4,697,628, Cl. 250-497.100.
Mickal, Hermann: *See*—
Gaul, Hartmut; Mickal, Hermann; and Haboeck, Adolf, 4,692,632, Cl. 307-66.000.
Mickanin, Wesley C.: *See*—
Husher, Frederick K.; Mickanin, Wesley C.; and Brashler, Mike G., 4,650,277, Cl. 350-96.200.
Mickelson, Eric N.: *See*—
Scruggs, David M.; and Mickelson, Eric N., 4,648,820, Cl. 425-8.000.
Mickelson, James E.: *See*—
Johnson, Harold R., III; Phillips, Allyn E.; Carrigan, Erwin R.; Virgo, Richard A.; and Mickelson, James E., 4,697,675, Cl. 192-7.000.
Mickelson, Nils P.; and MacFarlane, Jerauld C., to GTE Products Corporation. Distributing frame for telecommunications circuits. 4,694,488, 9-15-87, Cl. 379-327.000.
Mickelson, Thorwald J., to Transport Security Inc. Universal joint lock. 4,658,609, 4-21-87, Cl. 70-183.000.
Mickewich, Daniel J.: *See*—
Wilhite, Douglas L.; and Mickewich, Daniel J., 4,678,744, Cl. 430-569.000.
Mickiewicz, Stanley P.; and Coombes, Alan, to Codman & Shurtleff, Inc. Transcutaneous nerve stimulation device using a common controller for pulse production and parameter display. 4,693,254, 9-15-87, Cl. 128-421.000.
Mickler, Paul W., to E-Vac, Inc. Vacuum extraction apparatus. 4,672,711, 6-16-87, Cl. 15-306.00A.
Mickos, Kaj. Displaceable protective cover for handtools provided with rotatable disc-shaped tools. 4,711,055, 12-8-87, Cl. 51-268.000.
Miclot, Andre L., to Automobiles Peugeot; and Automobiles Citroen. Device for retaining a door in open position. 4,684,158, 8-4-87, Cl. 292-76.000.
Micra Ltd.: *See*—
Hoskin, William J.; and Pierse, Dermot J., 4,671,283, Cl. 128-354.000.
Micrion Limited Partnership: *See*—
Doherty, John A.; Ward, Billy W.; and Shaver, David C., 4,639,301, Cl. 204-192.310.
Guarino, Nicholas; Onorio, Gabriel; and Ward, Billy W., 4,673,101, Cl. 220-335.000.
Guarino, Nicholas, 4,699,555, Cl. 414-217.000.
Guarino, Nicholas, 4,711,438, Cl. 269-152.000.
Micro Component Technology, Inc.: *See*—
Gunderson, Ernest M., 4,645,402, Cl. 414-224.000.

Kantrud, Steven G.; Ericson, Steven V.; and Seidel, Karl R., Jr., 4,714,150, Cl. 198-463.300.
Lee, John S.; and Lozinski, Daniel L., 4,703,965, Cl. 294-64.100.
Wedel, John A.; Carroll, Michael J.; Kassner, Michael P.; and Smith, Nathan R., 4,647,269, Cl. 414-421.000.

Micro Dry, Inc.: *See—*
Kantor, Paul, 4,793,565, Cl. 34-1.000.

Micro Electronic Systems, Inc.: *See—*
Green, LaVerne M.; Vannoni, Adrio L.; and Pummell, Ivan K., 4,696,096, Cl. 29-829.000.

Micro-Mega: *See—*
Leonard, Henri, 4,634,378, Cl. 433-102.000.
Pernot, Jacques, 4,657,427, Cl. 403-321.000.

Micro-Mega S.A.: *See—*
Bonnot, Jean-Claude, 4,680,011, Cl. 433-29.000.
Bonnot, Jean-Claude, 4,689,012, Cl. 433-126.000.
Henri, Leonard; and Seigneurin, Michel, 4,710,175, Cl. 604-209.000.
Luiset, Jean-Jacques; and Seigneurin, Michel, 4,673,351, Cl. 433-29.000.
Luiset, Jean-Jacques; and Seigneurin, Michel, 4,690,641, Cl. 433-129.000.
Pernot, Jacques, 4,693,685, Cl. 433-105.000.
Seigneurin, Michel, 4,661,062, Cl. 433-128.000.

Micro-Plate Inc.: *See—*
Newton, Charles L.; Girard, Richard J.; and Cardin, William J., 4,675,111, Cl. 210-416.100.

Micro Pneumatic Logi, Inc.: *See—*
Greene, Sanford, 4,668,847, Cl. 200-82.00P.

Micro Properties Inc.: *See—*
Lashmore, David S.; Mullen, Jasper L.; Johnson, Christian E.; and Polvani, Robert S., 4,699,000, Cl. 73-81.000.

Micro Research, Inc.: *See—*
Newell, Darrel E.; and O'Brien, Mary C., 4,716,344, Cl. 315-312.000.

Micro Storage Ltd.: *See—*
Smith, Robert R., II, 4,641,209, Cl. 360-86.000.

Micro Surface Technology, Inc.: *See—*
Anderson, Alex L., 4,683,364, Cl. 219-69.00R.

Micro Tracers, Inc.: *See—*
Eisenberg, Sylvan, 4,654,165, Cl. 252-408.100.

Microbial Chemistry Research Foundation: *See—*
Otake, Noboru; Tatsuta, Kuniaki; Mizobuchi, Shigeyuki; Komeshima, Nobuyasu; Nakajima, Shohachi; Kawai, Hiroyuki; and Odagawa, Atsuo, 4,710,564, Cl. 536-6.400.
Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Iinuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, 4,686,308, Cl. 564-219.000.

Microbio Resources, Inc.: *See—*
Nonomura, Arthur M., 4,680,314, Cl. 514-725.000.
Nonomura, Arthur M., 4,713,398, Cl. 514-725.000.

Microcare Chemical Corporation: *See—*
Clapp, Clarence, 4,682,713, Cl. 222-153.000.

Microcom, Inc.: *See—*
Amundson, Anthony P., 4,680,773, Cl. 375-8.000.
Amundson, Anthony P.; and Melhorn, Nathan, 4,680,781, Cl. 375-8.000.
Bergins, Lewis A.; Amundson, Anthony P.; and Falk, Jerry, 4,691,314, Cl. 370-94.000.

MicroComputer Accessories, Inc.: *See—*
Clark, James B., 4,707,156, Cl. 400-613.200.
Hellman, Nat, III, 4,681,378, Cl. 312-108.000.

Microdot Inc.: *See—*
Beck, Gerald H., 4,635,945, Cl. 277-124.000.
Berecz, Imre, 4,681,497, Cl. 411-377.000.
Berecz, Imre, 4,687,394, Cl. 411-361.000.
Berecz, Imre; and Hinton, Dennis L., 4,687,395, Cl. 411-361.000.
Berecz, Imre, 4,687,396, Cl. 411-503.000.
Berecz, Imre, 4,687,397, Cl. 411-503.000.
Berecz, Imre, 4,687,398, Cl. 411-503.000.
Berecz, Imre, 4,695,212, Cl. 411-85.000.
Feldman, Sidney H., 4,669,937, Cl. 411-429.000.
Repella, James A., 4,705,277, Cl. 277-134.000.

Microdynamics, Inc.: *See—*
Leslie, Elmer N.; Treadwell, Stephen S., III; DiFloria, Thomas J.; Propst, Larry D.; Kushmaul, Richard T.; Abney, Paul A.; Stevenson, Kenneth; and Thomaston, C. Kenneth, 4,686,540, Cl. 346-33.00R.

Microdyne Corporation: *See—*
Woodworth, Donald J.; and Magin, Gregory A., 4,636,736, Cl. 329-50.000.

Microelectronics Center of North Carolina: *See—*
Giammara, Beverly L.; and Hanker, Jacob S., 4,690,901, Cl. 436-86.000.
Reisman, Arnold; and Osburn, Carlton M., 4,667,404, Cl. 29-847.000.

Microelectronics and Computer Technology Corporation: *See—*
Ghoshal, Uttam S., 4,689,505, Cl. 307-482.000.
Potter, Curtis N., 4,581,655, Cl. 156-632.000.
Potter, Curtis N.; and Kroger, Harry, 4,681,666, Cl. 204-15.000.

Microflex Technology, Inc.: *See—*
Heiserman, David L., 4,666,198, Cl. 294-86.400.

Microgenics Corporation: *See—*
Henderson, Daniel R., 4,708,929, Cl. 435-7.000.

Microglass, Inc.: *See—*
Armstrong, Richard J., 4,653,636, Cl. 206-334.000.
Armstrong, Richard J., 4,676,008, Cl. 34-237.000.

Microgon, Inc.: *See—*
Cronin, James J., 4,695,382, Cl. 210-436.000.

Microlife Technics, Inc.: *See—*
Gonzalez, Carlos F.; and Gryczka, Alfred J., 4,716,115, Cl. 435-172.300.
Vandenbergh, Peter A.; and Vidaver, Anne K., 4,678,750, Cl. 435-200.000.

Microlytics, Inc.: *See—*
Rockley, Mark G., 4,699,002, Cl. 73-153.000.

Micromanipulator Microscope Co., Inc.: *See—*
Podvin, T. Charles, 4,636,078, Cl. 356-359.000.
Podvin, T. Charles; and Porter, Gene A., 4,641,930, Cl. 350-529.000.

Micromedics, Inc.: *See—*
Arp, Robert A.; Conroy, W. Patrick; Miller, Curtis H.; and Wentzel, James M., 4,643,303, Cl. 206-370.000.

Micromeritics Instrument Co.: *See—*
Killip, Graham R.; Camp, Ronnie W.; and Orr, Clyde, Jr., 4,693,124, Cl. 73-863.110.

Micronic Interface Technologies: *See—*
James, Wesley, 4,700,188, Cl. 340-870.030.

Micronix Corporation: *See—*
Fay, Bernard; and Novak, W. Thomas, 4,704,033, Cl. 356-363.000.
Northrup, Ronnie; and Fay, Bernard, 4,698,834, Cl. 378-34.000.
Novak, W. Thomas, 4,648,106, Cl. 378-34.000.
Shimkunas, Alexander R., 4,668,336, Cl. 156-643.000.
Shimkunas, Alexander R., 4,671,850, Cl. 156-643.000.
Shimkunas, Alexander R.; and Block, Barry, 4,680,243, Cl. 430-5.000.
Shimkunas, Alexander R., 4,696,878, Cl. 430-5.000.
Shimkunas, Alexander R.; and LaBrie, James J., 4,708,919, Cl. 430-5.000.

MicroOffice Systems Technology: *See—*
Dunn, James P., 4,667,299, Cl. 364-708.000.

Micropore International Limited: *See—*
Hughes, John T., 4,680,070, Cl. 156-218.000.
McWilliams, Joseph A., 4,665,307, Cl. 219-449.000.

MicroRain Corporation: *See—*
Wilkins, Robert F., 4,676,374, Cl. 206-444.000.

Microscience Corporation: *See—*
Tragen, Barry J., 4,674,007, Cl. 361-404.000.

MicroSpun Technologies Inc.: *See—*
Bumpers, Norman R., 4,698,156, Cl. 210-331.000.

Microsurgical Equipment Limited: *See—*
Ray, Andrew I. A., 4,637,393, Cl. 128-305.000.

Microtek Storage Corporation: *See—*
Dalziel, Warren L.; Flanigan, Charles; Daniels, Donald V.; Lee, John S.; and Johnston, James, 4,636,902, Cl. 360-128.000.
Dalziel, Warren L., 4,663,687, Cl. 360-130.320.

Microtel Limited: *See—*
Barn, Belwinder S., 4,652,809, Cl. 323-282.000.
Fast, Raymond D.; and Murray, Brian A., 4,642,576, Cl. 331-1.00R.
Lipski, Jerzy A.; and Bardsley, Ian R., 4,678,907, Cl. 250-231.08F.
Yu, Oliver T., 4,658,248, Cl. 340-739.000.
Yu, Oliver T., 4,660,028, Cl. 340-739.000.
Yu, Oliver T., 4,672,370, Cl. 340-739.000.

Microwave Development Laboratories: *See—*
Wilson, Ronald A., 4,699,440, Cl. 439-278.000.

Microwave Development Laboratories, Inc.: *See—*
Riblet, Gordon P.; and Wilson, Ronald A., 4,670,724, Cl. 333-244.000.

Microwave Ovens Limited: *See—*
Eke, Kenneth I., 4,647,746, Cl. 219-10.55B.
Eke, Kenneth I., 4,653,461, Cl. 126-21.00A.
Eke, Kenneth I., 4,661,670, Cl. 219-10.55B.
Eke, Kenneth I., 4,691,068, Cl. 219-10.55F.

Microwave Systems & Technology, Inc.: *See—*
Gartzke, Donald G., 4,666,230, Cl. 339-177.00R.

Microwave Technology, Inc.: *See—*
Kawakami, Kenneth, 4,677,391, Cl. 330-269.000.

Miczka, Lothak: *See—*
Pauls, Matthias; and Miczka, Lothar, 4,651,899, Cl. 222-130.089.

Miczka, Lothar: *See—*
Pauls, Matthias; and Miczka, Lothar, 4,651,899, Cl. 222-130.000.

Mid-West Automation, Inc.: *See—*
Eitzinger, Robert; and Vought, Kimber T., 4,669,598, Cl. 198-345.000.

Midac Corporation: *See—*
Auth, Gerald L., 4,671,656, Cl. 356-346.000.
Auth, Gerald L., 4,693,603, Cl. 356-346.000.

Midavaine, Thierry R.; and Ouhayoun, Michel M., to SAT. Switching laser. 4,637,030, 1-13-87, Cl. 372-82.000.

Midavaine, Thierry, R.; and Ouhayoun, Michel M., to Societe Anonyme de Telecommunications. Device for frequency stabilizing an RF excitation laser. 4,694,458, 9-15-87, Cl. 372-32.000.

Middel, Roelof G.; and Oenema, Rinke, to Gascoigne-Melotte B.V. Automatic application of teat cups. 4,685,422, 8-11-87, Cl. 119-14.130.

Middelhoek, Simon: *See—*
Kordi, Srdjan; Zieren, Victor; and Middelhoek, Simon, 4,694,248, Cl. 324-252.000.

Middlebrook, Robert B.; and Turner, W. Bard. Vehicular movement indicator safety system. 4,638,295, 1-20-87, Cl. 340-73.000.

Middlebrook, Robert D., to California Institute of Technology. Transformerless dc-to-dc converters with large conversion ratios. 4,654,769, 3-31-87, Cl. 363-16.000.

t, Richard J.: *See*—
a, Jaroslav M.; Velsher, Benne; and Middlehurst, Richard J.,),998, Cl. 439-325.000.
f, Carle A.: *See*—
ecki, Andrew N.; and Middlekauff, Carle A., 4,699,577, Cl. 61.00B.
, William. Security system including a plurality of centrally nable locking assemblies. 4,644,104, 2-17-87, Cl. 00.
t, Louis. Shape retaining bodies of solder containing flux and thod of manufacture and use. 4,645,545, 2-24-87, Cl. 6.
rth, Jeffrey A.: *See*—
on, William J., Jr.; and Middlesworth, Jeffrey A., 4,714,735, 24-514.000.
Andrew J., to United Kingdom of Great Britain and North- nd, The Secretary of State for Defence in Her Britannic Government of the. Raster image manipulator. 4,672,680, 382-44.000.
Carlisle A. Snow removal system with adjustable snow gate. 4,679,338, 7-14-87, Cl. 37-244.000.
Francisco A.; Hargrave, Franklin; and Cox, John E., to ITT on Information transport system employing telephone 5,516, 5-12-87, Cl. 370-76.000.
Francisco A.: *See*—
David S.; Smith, Mark G.; Middleton Francisco A.; and rave, Franklin, 4,656,651, Cl. 379-1.000.
ve, Franklin; and Middleton, Francisco A., 4,638,124, Cl. 59.000.
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ve, Franklin; and Middleton, Francisco A., 4,672,602, Cl. 8.000.
Mark G.; French, Karen J.; Zeller, David A., Jr.; Hargrave, lin; and Middleton, Francisco A., 4,654,869, Cl. 37.000.
Kenneth: *See*—
Michael G.; Middleton, Kenneth; and Jackson, David B., 839, Cl. 405-288.000.
Nicholas J., to Metal Box p.l.c. Decorating substrate materi- 913, 12-29-87, Cl. 156-85.000.
Robert G.: *See*—
utt, Fred L., Jr.; and Middleton, Robert G., 4,645,217, Cl. 0.000.
Victor: *See*—
Michael J.; Middleton, Victor; and Edwards, Kevin L., 620, Cl. 264-45.500.
William J., Jr., to E-Systems, Inc. Electrical connector for nna and resistive/capacitive contact therefor. 4,636,802, 343-895.000.
n A.; and Hulett, Richard H., to Raychem Corporation. lectrical assemblies. 4,659,913, 4-21-87, Cl. 219-549.000.
hard J.: *See*—
Gordon L.; and Midgley, Richard J., 4,683,119, Cl. 4.000.
ke, Inc.: *See*—
Thomas R., 4,710,108, Cl. 417-298.000.
hard W., to Zenith Electronics Corporation. Beam index ving two distinct levels of index video signal. 4,651,197, 358-69.000.
chard W.; and Rozansky, Boris, to Zenith Electronics on. Beam index system with switchable memories. 4-14-87, Cl. 358-67.000.
chard W.; and Rozansky, Boris, to Zenith Electronics on. Wide band beam index system with improved bright- ,116, 11-10-87, Cl. 358-67.000.
s Corporation: *See*—
Donald L., 4,645,393, Cl. 411-84.000.
rporation: *See*—
y L.; Simpkins, Terry J.; and Harris, David P., 4,653,129, 30.000.
y L., 4,691,393, Cl. 5-62.000.
sanori; Kubo, Takashi; Fujikawa, Atsunobu; and Motoda, to Toyoda Gosei Co., Ltd; and Toyota Jidosha Kabushiki ealed joint including water-absorptive, water-swelling joint interface site for using leakage to repair leaks. 11-24-87, Cl. 277-184.000.
n Industry Co., Ltd.: *See*—
shimisa, 4,671,270, Cl. 128-202.260.
B. Co., Ltd.: *See*—
wa, Kiyoshi, 4,649,014, Cl. 264-555.000.
Akira; Ito, Masaji; Shinada, Masayuki; Hirono, Tatsuo; irobumi; and Shibusawa, Mitsuo, to Ricoh Company, Ltd. ply control device for copier having timer. 4,677,310, 307-64.000.
Akira: *See*—
aji; Midorikawa, Akira; Shinada, Masayuki; Hirono, Tat- oshino, Hirobumi; and Shibusawa, Mitsuo, 4,682,158, Cl. 9.000.
Masashi; and Inoh, Isamu, to Honda Giken Kogyo Kabu- a. Vehicle door mirror with housing and base part includ- lexible material. 4,712,891, 12-15-87, Cl. 350-604.000.
Mitsuhiro: *See*—
Kazuaki; Ochi, Atsushi; Suzuki, Masanori; and kawa, Mitsuhiro, 4,681,667, Cl. 204-15.000.
Midorikawa, Shoichi: *See*—
Isayama, Muneo; and Midorikawa, Shoichi, 4,705,221, Cl. 241-27.000.
Midorikawa, Sumiyuki: *See*—
Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hitoshi; Isogai, Tokio; Saitoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, 4,643,913, Cl. 427-75.000.
Midorikawa, Yoshiaki: *See*—
Shimada, Masaaki; Saito, Koji; and Midorikawa, Yoshiaki, 4,705,702, Cl. 427-180.000.
Midrex International, B.V.: *See*—
Whitten, Gilbert Y., Jr.; Joyner, Kenneth E., Jr.; and Boren, Benjamin E., 4,691,868, Cl. 241-24.000.
Midrex International B.V. Rotterdam: *See*—
Kaneko, Dentaro; and Meissner, David C., 4,701,214, Cl. 75-38.000.
Summers, Frank V.; Scarlett, John C.; Meissner, David C.; and Hoffman, Glenn E., 4,685,964, Cl. 75-38.000.
Midrex International, B.V. Rotterdam, Zurich Branch: *See*—
Love, Paul M.; and Kelley, Bruce G., 4,702,766, Cl. 75-34.000.
MIDS Magnetische Informations-und Daten-Systeme GmbH: *See*—
Diekemper, Erwin; and Kastrup, Dieter, 4,694,148, Cl. 235-468.000.
Midthun, Karen: *See*—
Wyatt, Richard G.; Kapikian, Albert Z.; Chanock, Robert M.; Midthun, Karen; Flores, Jorge; and Hoshino, Yasutaka, 4,708,275, Cl. 424-89.000.
Midwest Green Products, Inc.: *See*—
Larson, Conrad M., 4,648,349, Cl. 119-1.000.
Midwest Innovations, Inc.: *See*—
Helmsdorfer, Robert J.; Kemnitz, Todd; and Blaney, Robert J. (said Todd Kemnitz assors. to), 4,688,747, Cl. 248-56.000.
Midwest Instrument Co., Inc.: *See*—
Boron, Joseph J., 4,699,014, Cl. 73-864.570.
Colzani, James W.; and Kehl, Nelson H., 4,667,385, Cl. 29-157.00C.
Midwest Plastic Fabricators, Inc.: *See*—
Cross, Andrew L.; and Moran, Thomas F., Jr., 4,687,432, Cl. 425-387.100.
Midwest Research Institute: *See*—
Engel, James F.; Byerley, Thomas J.; and Christie, Howard W., 4,704,466, Cl. 558-411.000.
Liao, Tsung K.; and Chappelow, Cecil B., 4,659,475, Cl. 210-654.000.
Mathiprakasam, Balakrishnan, 4,634,803, Cl. 136-212.000.
Midwestern Reliable Equipment, Inc.: *See*—
Anaker, Donald G., 4,671,063, Cl. 60-458.000.
MIE Medical Research Limited: *See*—
Ellis, Malcolm L., 4,674,330, Cl. 73-379.000.
Mie Yushikako Kabushiki Kaisha: *See*—
Matsumoto, Tooru; Ishikawa, Satoshi; Nakamura, Eiji; Izuoka, Tomio; and Gkada, Tomoyuki, 4,657,963, Cl. 524-406.000.
Mieda, Kenji: *See*—
Ookubo, Mamoru; Iwasaki, Takayuki; and Mieda, Kenji, 4,642,871, Cl. 29-513.000.
Miedeck, Karin: *See*—
Hegeman, Gunther; and Miedeck, Karin, 4,691,002, Cl. 528-289.000.
Mielcarek, Andreas; and Buchholz, Karl-Heinz, to M.A.N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Bogie for rail vehicles. 4,676,173, 6-30-87, Cl. 105-209.000.
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Brinkhoff, Helmut; Gloning, Gunter; and Steinkotter, Heinz-Gunter, 4,697,299, Cl. 15-323.000.
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Mieno, James. Angler's lure with keel. 4,660,318, 4-28-87, Cl. 43-42.390.

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Nakajima, Toyohei; and Mieno, Toshiyuki, 4,683,049, Cl. 204-428.000.
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Miesak, Edward J. Optical transmission link for musical production. 4,715,671, 12-29-87, Cl. 350-96.100.

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Miesen, Michael P., to Lines West. Traction device for skis. 4,674,764, 6-23-87, Cl. 280-604.000.

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Backer, Wolfgang; Wagner, Wolfram; Hahn, Gunther; and Miessen, Ralf, 4,701,980, Cl. 19-0.480.

Miesterfeld, Frederick O. R.; Fassnacht, Ronald E.; and McCambridge, John M., to Chrysler Motors Corporation. Serial data bus for inter-module data communications. 4,706,082, 11-10-87, Cl. 340-825.500.

Miesterfeld, Frederick O. R.: *See*—
Wroblewski, Thomas R.; and Miesterfeld, Frederick O. R., 4,677,308, Cl. 307-10.00R.

Mieth, Guenther; and Schwarz, Ulf, to Siemens Aktiengesellschaft. Circuit arrangement for feeding an electrical load from a solar generator. 4,695,785, 9-22-87, Cl. 323-222.000.

Mieth, Hans O. E., to Otto Tuchenhagen GmbH & Co. KG. Process for the simultaneous cleaning of both seat surfaces of a double seat valve with a product action on at least one side and device to perform the process. 4,687,015, 8-18-87, Cl. 137-238.000.

Miethe, Manfred: *See*—
Guthling, Klaus; Meyer, Adolf J.; and Miethe, Manfred, 4,641,576, Cl. 101-415.100.

Mietrach, Dietmar, to Messerschmitt-Bolkow-Blohm GmbH. Method of bonding titanium or titanium alloy to an iron-nickel alloy. 4,674,675, 6-23-87, Cl. 228-194.000.

Mietus, David F.: *See*—
Naylor, Jimmy R.; Mietus, David F.; and White, Robert L., 4,647,906, Cl. 340-347.0DA.

Mietz, Raymond E.; and Wilkinson, Harlen E., to American Can Company. Propellant filling and sealing valve. 4,658,979, 4-21-87, Cl. 220-209.000.

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Mieyal, David F.; Shirey, Richard; and Worley, Robert F., to Donn Incorporated. Locking connection for suspension ceiling grid systems. 4,648,230, 3-10-87, Cl. 52-667.000.

Mieyal, David F., to Donn Incorporated. Method of making honeycomb floor panel. 4,689,870, 9-1-87, Cl. 29-469.500.

Mieyal, David F.; and Koski, Gerald L., to Donn Incorporated. Suspension ceiling with snap-up panels. 4,696,142, 9-29-87, Cl. 52-762.000.

Mifsud, Joseph F., to Exxon Production Research Co. Distributed marine seismic source. 4,633,970, 1-6-87, Cl. 181-120.000.

Mifune, Hideo, to Matsushita Electric Industrial Co., Ltd. Gas heater. 4,662,353, 5-5-87, Cl. 126-350.00B.

Mifune, Hiroyuki; Nakamura, Koki; and Ishiguro, Shoji, to Fuji Photo Film Co., Ltd. Development-processing method for silver halide photographic light-sensitive material. 4,634,660, 1-6-87, Cl. 430-3.5.000.

Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, to Fuji Photo Film Co., Ltd. Process for preparing silver halide emulsion and silver halide photographic light-sensitive material. 4,665,017, 5-12-87, Cl. 430-569.000.

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Mifune, Hiroyuki: *See*—
Yamada, Sumito; Mifune, Hiroyuki; and Urabe, Shigeharu, 4,678,745, Cl. 430-569.000.

Migaki, Takao: *See*—
Ohyabu, Shuzo; Kawai, Syuji; Okamoto, Takehiko; and Migaki, Takao, 4,664,669, Cl. 623-66.000.

Migita, Haruyoshi; and Yoshiura, Shoichiro, to Sharp Kabushiki Kaisha. Electrophotographic copying machine with picture position selection function. 4,634,266, 1-6-87, Cl. 355-55.000.

Migita, Haruyoshi: *See*—
Taniguchi, Akihiko; Migita, Haruyoshi; Nakanishi, Yasushi; and Kato, Itsuro, 4,688,929, Cl. 355-14.00R.

Migita, Shuiti; and Ito, Hajime, to Kuroda Precision Industries, Ltd. Chuck for holding rotary cutting tool. 4,657,454, 4-14-87, Cl. 409-234.000.

Migita, Yoshihiro; Eguchi, Tadashi; Kumazawa, Yukinari; Nakagami, Jozi; Amano, Takehiro; Sota, Kaoru; and Sakakibara, Jinsaku, to Taisho Pharmaceutical Co., Ltd. Benzo[*a*]phenazine antitumor agents. 4,686,292, 8-11-87, Cl. 544-343.000.

Migler, Bernard. Teaching machine. 4,643,682, 2-17-87, Cl. 434-321.000.

Migler, Bernard. Pole-"housing" for monkeys. 4,685,424, 8-11-87, Cl. 119-120.000.

Migliacci, Antonio: *See*—
Tognoli, Pietro; Cremaschi, Gianfranco; Migliacci, Antonio; and Bono, Giancarlo, 4,703,890, Cl. 238-7.000.

Miglierini, Raul A.: *See*—
Loeb, James B.; Osborne, Andrew J., Jr.; and Miglierini, Raul A., 4,662,460, Cl. 175-305.000.

Migliore, Neil. Assembly system with clip for installing marble panels. 4,640,076, 2-3-87, Cl. 52-509.000.

Migliore, Neil. Method of installing marble panels. 4,680,914, 7-21-87, Cl. 52-747.000.

Migliore-Samour, Danielle: *See*—
Jolles, Pierre; Migliore-Samour, Daniele; Parker, Fabienne; and Casaretto, Monika, 4,637,997, Cl. 514-17.000.
Jolles, Pierre; Migliore-Samour, Daniele; and Parker, Fabienne, 4,647,554, Cl. 514-21.000.
Jolles, Pierre; Migliore-Samour, Daniele; and Parker, Fabienne, 4,716,151, Cl. 514-18.000.

Migliorini, Ingrid K.: *See*—
Koppelman, Mitchell H.; and Migliorini, Ingrid K., 4,650,521, Cl. 106-309.000.

Mignani, Gerard; Morel, Didier; and Chabardes, Pierre, to Rhone-Poulenc Sante. Process for preparing chlorinated ethylenic derivatives. 4,634,778, 1-6-87, Cl. 549-80.000.

Mignani, Gerard; and Morel, Didier, to Rhone-Poulenc Sante. Preparation of unsaturated compounds. 4,693,849, 9-15-87, Cl. 260-404.000.

Mignani, Gerard; and Morel, Didier, to Rhone-Poulenc Sante. Process for the preparation of compounds halogenated α to an electron-attracting group. 4,705,650, 11-10-87, Cl. 260-405.500.

Migne, Jacques: *See*—
Leprince, Philippe; Marec, Jean; Saada, Serge; Bloyet, Emile; and Migne, Jacques, 4,698,822, Cl. 372-70.000.

Mignien, Georges; and Fasquel, Didier, to Les Cables de Lyon. Junction box for joining the ends of underwater optical fiber cables by welding. 4,664,471, 5-12-87, Cl. 350-96.210.

Mignini, Elio: *See*—
Caserio, Domenico; Mignini, Elio; and Davot, Micheline M. J., 4,664,910, Cl. 424-70.000.

Migny, Philippe: *See*—
Matheron, Gerard; and Migny, Philippe, 4,634,899, Cl. 307-462.000.

Miguchi, Akio: *See*—
Tamba, Shinichi; Miyake, Hitomi; Fukui, Noboru; and Miguchi, Akio, 4,681,067, Cl. 123-41.100.
Tamba, Shinichi; Fukui, Noboru; and Miguchi, Akio, 4,703,723, Cl. 123-182.000.

Migut, Gary J. Tank crew seat structure. 4,685,731, 8-11-87, Cl. 297-347.000.

Mihai, Adrian: *See*—
Hascal, Marcel; Lopez, Sergio; Danielski, Andrew; and Mihai, Adrian, 4,714,915, Cl. 340-657.000.

Mihal, David G.: *See*—
Brooks, Kenneth L.; Bufkin, Paul R.; Mihal, David G.; and Miller, Jerry G., 4,679,232, Cl. 379-413.000.

Mihalcea, Radu: *See*—
Malm, Rune; and Mihalcea, Radu, 4,702,001, Cl. 29-720.000.

Mihalich, Donald: *See*—
Klacik, Kenneth J.; Vermesh, Robert J.; Fronczkowski, Paul R.; DeTora, Sigismondo A.; and Mihalich, Donald, 4,657,501, Cl. 425-379.00R.

Mihama, Takeshi: *See*—
Kondow, Kiyohiro; Mihama, Takeshi; Hara, Yasuaki; Aoki, Hisashi; and Hasebe, Nobuyuki, 4,689,384, Cl. 528-15.000.

Mihara, Hidemi: *See*—
Tajima, Noriyasu; Aoba, Kunihiko; and Mihara, Hidemi, 4,660,160, Cl. 364-567.000.

Mihara, Jiro: *See*—
Uno, Kunihiko; Nakazato, Kunihiro; Nishigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mihara, Jiro; and Takai, Kiyoaki, 4,639,927, Cl. 373-84.000.

Mihara, Makoto: *See*—
Maehara, Naoyoshi; Matsumoto, Takahiro; Kusunoki, Shigeru; Sakamoto, Kazuho; and Mihara, Makoto, 4,704,674, Cl. 363-131.000.
Sakamoto, Kazuho; and Mihara, Makoto, 4,672,181, Cl. 219-518.000.

Mihara, Mitsuo: *See*—
Harigaya, Yasuji; Ogura, Hiroo; Mihara, Mitsuo; Yamanaka, Motosuke; and Yamatsu, Kiyomi, 4,661,630, Cl. 562-455.000.

Mihara, Osamu. Water purification device. 4,666,599, 5-19-87, Cl. 210-243.000.

Mihara, Shin-ichi; Imai, Toshihiro; Ikari, Kazuo; and Fujii, Toru, to Olympus Optical Co., Ltd. Real-time light-measuring system for single-lens reflex cameras. 4,635,125, 1-6-87, Cl. 358-228.000.

Mihara, Shin-ichi, to Olympus Optical Company, Ltd. Compact photographic camera lens system having an aspherical surface of short overall length. 4,659,190, 4-21-87, Cl. 350-432.000.

Mihara, Shin-ichi, to Olympus Optical Co., Ltd. Large aperture zoom lens system. 4,701,034, 10-20-87, Cl. 350-427.000.

Mihara, Teruyoshi, to Nissan Motor Co., Ltd. MOS transistor. 4,686,551, 8-11-87, Cl. 357-23.400.

Mihara, Teruyoshi, to Nissan Motor Company, Limited. Power MOS FET with decreased resistance in the conducting state. 4,697,201, 9-29-87, Cl. 357-41.000.

Mihara, Tohru; Sato, Kiyoshi; and Terauchi, Yasuo, to Taisei Road Construction Co., Ltd. Automotive rolling machine. 4,679,962, 7-14-87, Cl. 404-126.000.

Mihara, Tohru, to Taisei Road Construction Co., Ltd. Paved road surface reproducing apparatus. 4,682,909, 7-28-87, Cl. 404-90.000.

Mihara, Tohru, to Taisei Road Construction Co., Ltd. Road surface layer reproducing machine. 4,714,374, 12-22-87, Cl. 404-91.000.

Mihara, Toshihiro: *See*—
Kusuda, Takao; Mihara, Toshihiro; Yonemura, Masaaki; and Kuwano, Satoshi, 4,652,286, Cl. 55-523.000.

Mihara, Yuji; and Ukai, Toshinao, to Yuji Mihara. Silver halide photographic materials. 4,677,053, 6-30-87, Cl. 430-576.000.

Mihara, Yuji, to Kabushiki Kaisha Toshiba. Electronic watt-hour meter. 4,692,874, 9-8-87, Cl. 364-483.000.

Mihara, Yuji: *See*—
Toya, Ichizo; Mihara, Yuji; and Takei, Haruo, 4,634,653, Cl. 430-217.000.

Mihashi, Yutaka; and Nagai, Yutaka, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor laser element suitable for production by a MO-CVD method. 4,667,332, 5-19-87, Cl. 372-45.000.

Mihata, Ichiro: *See*—
Mitani, Tomomasa; and Mihata, Ichiro, 4,640,966, Cl. 526-249.000.
Mitani, Tomomasa; and Mihata, Ichiro, 4,690,968, Cl. 524-315.000.

Mihayashi, Keiji; and Kobayashi, Hidetoshi, to Fuji Photo Film Co., Ltd. Silver halide light-sensitive material comprising a foggant-releasing coupler and a non-developable silver halide layer between color-sensitive emulsion layers. 4,656,123, 4-7-87, Cl. 430-543.000.

Mihayashi, Keiji; and Takada, Shunji, to Fuji Photo Film Co. Ltd. Silver halide color photographic light-sensitive material. 4,705,743, 11-10-87, Cl. 430-385.000.

Mihayashi, Keiji: *See*—
Ichijima, Seiji; Ono, Mitsunori; Itoh, Isamu; Mihayashi, Keiji; Tamoto, Koji; and Nakamura, Yoshisada, 4,711,837, Cl. 430-548.000.

Mihelich, Peter J., to Grumman Aerospace Corporation. Method and apparatus for rapidly stripping cable wires and crimping contacts thereon. 4,669,162, 6-2-87, Cl. 29-33.00M.

Mihm, Gerhard: *See*—
Trummlitz, Gunter; Engel, Wolfhard; Eberlein, Wolfgang; Mihm, Gerhard; and Giachetti, Antonio, 4,668,674, Cl. 514-220.000.

Miho, Takuya: *See*—
Murai, Takaaki; Watanabe, Shoji; Inoue, Kimio; Isobe, Tomohisa; Nakashima, Naoki; Miho, Takuya; and Ikemoto, Yoshiyuki, 4,663,429, Cl. 528-355.000.

Mihoya, Takashi: *See*—
Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobumori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Isobe, Yukihiro; Tanaka, Kazushi; and Shinoura, Osamu, 4,708,909, Cl. 428-425.900.

Mihran, Theodore G.: *See*—
Eichelberger, Charles W.; Wojnarowski, Robert J.; and Mihran, Theodore G., 4,646,152, Cl. 358-166.000.

Miida, Takashi; Takei, Akira; and Tashiro, Kiyoshi, to Fujitsu Limited. Image sensor. 4,716,466, 12-29-87, Cl. 358-213.260.

Miida, Takashi: *See*—
Takei, Akira; Hika, Yoshihiko; and Miida, Takashi, 4,672,409, Cl. 357-33.500.

Miike, Akira: *See*—
Aoyama, Norihito; Miike, Akira; Okano, Mikio; and Tatano, Toshio, 4,683,208, Cl. 436-12.000.

Miilu, John H.: *See*—
Allen, David A.; and Miilu, John H., 4,653,646, Cl. 206-579.000.

Miisyo, Kazuyuki: *See*—
Hara, Seinosuke; Ofuji, Hiromichi; Miisyo, Kazuyuki; Matsumoto, Yasuo; and Kato, Manabu, 4,708,101, Cl. 123-90.160.

Mikada, Hiroyuki: *See*—
Kunishi, Kosuke; Mikada, Hiroyuki; and Watanabe, Tsunehiro, 4,677,649, Cl. 375-122.000.

Mikada, Kenzo: *See*—
Hosaka, Nobuyoshi; Shimizu, Tasuku; Mikada, Kenzo; Tamura, Kozo; and Tanabe, Masatoshi, 4,678,571, Cl. 210-202.000.

Mikado, Tsuneo, to Nippon Television Industry Corporation. Television generator for highlighting portions of an image. 4,654,711, 3-31-87, Cl. 358-180.000.

Mikaior, S.A.: *See*—
Verges, Jaime M., 4,706,346, Cl. 24-274.00R.

Mikalsen, Arthur, to Exxon Printing Systems, Inc. System to linearly supply phase change ink jet. 4,636,803, 1-13-87, Cl. 346-1.100.

Mikalsen, Arthur, to Exxon Printing Systems, Inc. Ink jet apparatus with reservoir having a tilt valve serving as fill port and air vent. 4,641,154, 2-3-87, Cl. 346-140.00R.

Mikami, Akiyoshi: *See*—
Ogura, Takashi; Tanaka, Koichi; Taniguchi, Koji; Yoshida, Masaru; and Mikami, Akiyoshi, 4,707,419, Cl. 428-690.000.

Mikami, Hitoshi; Fukuda, Katsuyoshi; and Yasuami, Shigeru, to Kabushiki Kaisha Toshiba. Method of implanting uniform concentrations in solids having predetermined angular relationship with the ion-beam. 4,670,968, 6-9-87, Cl. 29-576.00B.

Mikami, Katsumasa: *See*—
Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryoichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.
Suzaki, Masafumi; Mikami, Katsumasa; Nagano, Yousuke; and Kitagishi, Tomoji, 4,641,149, Cl. 346-76.0PH.

Mikami, Kazufumi: *See*—
Hashimoto, Hitoshi; Tamaki, Yoshihiro; Mikami, Kazufumi; and Shimogai, Kiyoshi, 4,701,081, Cl. 408-1.00R.

Mikami, Kazuo; Nishimura, Masahiro; Tsukiyama, Noriyuki; and Hinoda, Seisuke, to Omron Tateisi Electronics Co. Process for preparing discrimination criteria for a identifying colors for color identifying system. 4,653,014, 3-24-87, Cl. 364-526.000.

Mikami, Kazuo; and Watanabe, Taro, to Omron Tateisi Electronics Co. Optical coupling device and method of producing same. 4,666,236, 5-19-87, Cl. 350-96.150.

Mikami, Kazuo; Yamashita, Tsukasa; and Katoh, Mitsutaka, to Omron Tateisi Electronics Co. Optical waveguide and method of making the same. 4,712,854, 12-15-87, Cl. 350-96.120.

Mikami, Keigo, deceased: *See*—
Hatano, Hirofumi; Yamazaki, Masayasu; Sasaki, Atsushi; Mikami, Keigo, deceased; Taoda, Kiyomichi; and Murakami, Mitsuharu, 4,669,976, Cl. 432-58.000.

Mikami, Koushirou: *See*—
Okutsu, Hideo; Mikami, Koushirou; Yonezawa, Kazuyoshi; and Ichikawa, Kuniharu, 4,701,595, Cl. 219-364.000.

Mikami, Mitsugu; Yukimoto, Kougi; and Ishii, Jun, to Kabushiki Kaisha Nipponcoinco. Coin discriminator. 4,706,795, 11-17-87, Cl. 194-317.000.

Mikami, Naoko: *See*—
Higuchi, Ryoichi; Sakurai, Takao; Mikami, Naoko; Akatwa, Kiriko; and Takeuchi, Koji, 4,695,651, Cl. 560-141.000.

Mikami, Nobuo: *See*—
Kamo, Yuichi; and Mikami, Nobuo, 4,713,638, Cl. 335-79.000.

Mikami, Ryuzo, to Toray Silicone Co., Ltd. Room-temperature-curable silicon-modified polyether composition. 4,683,250, 7-28-87, Cl. 522-33.000.

Mikami, Ryuzo, to Toray Silicone Co., Ltd. Room temperature-curable organopolysiloxane composition containing a photosensitizer. 4,683,251, 7-28-87, Cl. 522-46.000.

Mikami, Takashi: *See*—
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,673,692, Cl. 514-583.000.
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,695,581, Cl. 514-415.000.

Mikami, Takeshi: *See*—
Kakimi, Fujio; and Mikami, Takeshi, 4,642,281, Cl. 430-138.000.
Naoi, Takashi; Kakimi, Fujio; and Mikami, Takeshi, 4,699,866, Cl. 430-138.000.

Mikami, Tatuya. Seat belt apparatus for a vehicle seat. 4,652,053, 3-24-87, Cl. 297-484.000.

Mikami, Tetsuo; and Saiki, Terunari, to Honda Giken Kogyo Kabushiki Kaisha. Fairing with a ventilation system. 4,703,825, 11-3-87, Cl. 180-229.000.

Mikami, Toshio; and Nagasawa, Yasuo, to Toko, Inc. Battery charging device. 4,680,528, 7-14-87, Cl. 320-32.000.

Mikami, Tsutomu: *See*—
Oba, Seisuke; Mikami, Tsutomu; Suzuki, Hideyuki; Shimada, Mitsuhiro; and Suzuki, Tadashi, 4,706,141, Cl. 360-96.500.

Mikami, Tsuyako, legal representative: *See*—
Hatano, Hirofumi; Yamazaki, Masayasu; Sasaki, Atsushi; Mikami, Keigo, deceased; Taoda, Kiyomichi; and Murakami, Mitsuharu, 4,669,976, Cl. 432-58.000.

Mikami, Yoshiharu, to Kabushiki Kaisha Ishida Koki Seisakusho. Method and apparatus for collecting weighed articles discharged from combinatorial weighing system. 4,657,129, 4-14-87, Cl. 193-2.00R.

Mikami, Yoshiharu; Sashiki, Takashi; and Asai, Yoshiharu, to Ishida Scales Manufacturing Company, Ltd. Automatic weighing apparatus. 4,664,200, 5-12-87, Cl. 177-25.000.

Mikami, Yoshikatsu: *See*—
Numata, Shun-ichi; Fujisaki, Koji; Kinjo, Noriyuki; Imazumi, Junichi; and Mikami, Yoshikatsu, 4,690,999, Cl. 528-188.000.

Mikamoto, Makoto; Sasaki, Shinkichi; Watanabe, Hiroyuki; and Miyazawa, Azuma, to Mitsumi Electric Co., Ltd. Floppy disc recording and/or reproducing apparatus. 4,665,453, 5-12-87, Cl. 360-96.600.

Mikashima, Hiroshi: *See*—
Ao, Hideki; Obata, Minoru; Yamanaka, Tsutomu; and Mikashima, Hiroshi, 4,713,381, Cl. 514-222.000.
Tsuruda, Mineo; Oe, Takanori; Kawasaki, Kazuyuki; Mikashima, Hiroshi; and Yasuda, Hiroshi, 4,661,603, Cl. 548-346.000.

Mikawa, Akikazu: *See*—
Ikenoue, Shinpei; Mikawa, Akikazu; and Ichijima, Seiji, 4,647,527, Cl. 430-505.000.
Mikawa, Takashi: *See*—
Kobayashi, Masahiro; Yamazaki, Susumu; Mikawa, Takashi; Nakajima, Kazuo; and Kaneda, Takao, 4,656,494, Cl. 357-30.000.
Mikawa, Toshimasa: *See*—
Sato, Akira; Sato, Kazuo; Saito, Takaharu; Shima, Junkoh; Mizutani, Kansei; and Mikawa, Toshimasa, 4,713,767, Cl. 364-453.000.
Mikazhan, Valdis D.: *See*—
Bremanis, Gunar A.; Kalvinsh, Ivars Y.; Antsena, Irena B.; Lukevits, Edmund Y.; Veveris, Maris M.; Erenshtein, Marina L.; Mikazhan, Valdis D.; Kauss, Valeryans Y.; Liepinsh, Edvard E.; and Trapentsier, Petr T., 4,704,403, Cl. 514-554.000.
Mike & Kremmel Ltd.: *See*—
Steinko, Willi, 4,714,205, Cl. 241-95.000.
Mikelait, Robert C.: *See*—
Horn, Gary R.; and Mikelait, Robert C., 4,709,348, Cl. 364-900.000.
Mikelk, Paul D.: *See*—
Appleton, Gregory H.; and Mikelk, Paul D., 4,714,122, Cl. 177-139.000.
Mikelsaar, Raik-Khiio N. Three-dimensional model of molecular structure and a device for disassembly and reassembly of same. 4,702,702, 10-27-87, Cl. 434-278.000.
Miker, Louis, Jr. Pillow having storage compartments. 4,688,286, 8-25-87, Cl. 5-490.000.
Mikes, Sandor: *See*—
Czvikovszky, Tibor; Kovacs, Gabor; Lakner, Endre; Mahr, Lajos; Somogyi, Agnes; Mikes, Sandor; Kegly, Gyorgy; Muzsai, Istvan; Palotas, Laszlo; and Pfisztner, Nandor, 4,706,711, Cl. 138-103.000.
Mikeska, Felix: *See*—
Buthe, Theo; Geisthoff, Hubert; Kretschmer, Horst; Mikeska, Felix; and Post, Alexander, 4,639,163, Cl. 403-322.000.
Geisthoff, Hubert; Buthe, Theo; and Mikeska, Felix, 4,639,162, Cl. 403-316.000.
Miketic, Sinisa; Schade, Udo; and Schade, Michael, to Messrs. Karl Storz GmbH & Co. Apparatus for controlling a probe of an endoscopy device. 4,708,125, 11-24-87, Cl. 128-4.000.
Mikhail, Ameer G. Postal stamp with provisions for entering machine readable destination identifier. 4,715,622, 12-29-87, Cl. 283-71.000.
Mikhail, Joanne E.: *See*—
Ludwig, Richard H.; and Mikhail, Joanne E., 4,638,889, Cl. 187-29.00R.
Mikhail, Magdy W.: *See*—
Mikula, Randy J.; Mikhail, Magdy W.; Dean, D. Michael; and Savage, John D., 4,671,098, Cl. 73-19.000.
Mikhailovsky, Leonid; and Ramotar, Jay G., to Bridginfill Design Ltd. Concrete arch buried bridge. 4,695,187, 9-22-87, Cl. 405-124.000.
Miki, Hajime, to Japan Tobacco Inc. Apparatus for selectively removing tobacco plant leaves. 4,715,170, 12-29-87, Cl. 56-27.500.
Miki, Hiroyuki; Nakata, Yasuo; Hirata, Kazuo; Ishiizumi, Seiichi; and Funabashi, Genichi, to Kubota, Ltd. Agricultural tractor with a driver's cabin. 4,669,565, 6-2-87, Cl. 180-89.120.
Miki, Hiroyuki: *See*—
Ishimori, Shozo; Ishida, Mikio; Miki, Hiroyuki; Ishiizumi, Seiichi; and Hirata, Kazuo, 4,696,365, Cl. 180-233.000.
Miki, Kazuo; Fukui, Katsuhiko; Hayashi, Yasutaka; Ishiguro, Michio; Sumi, Kazumasa; and Takei, Kazukata, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Apparatus for controlling steering angle of rear wheels of a vehicle. 4,669,745, 6-2-87, Cl. 280-91.000.
Miki, Kazuo; Hayashi, Yasutaka; Fukui, Katsuhiko; and Sumi, Kazumasa, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Apparatus for controlling steer angle of rear wheels of vehicle. 4,700,960, 10-20-87, Cl. 280-91.000.
Miki, Masaharu, to Seiko Seiki Kabushiki Kaisha. Combined turbomolecular pump. 4,655,678, 4-7-87, Cl. 415-71.000.
Miki, Masayoshi: *See*—
Saito, Kiichi; Aoki, Masahiro; Ikeda, Noriyasu; Miki, Masayoshi; and Nagayama, Masaaki, 4,653,684, Cl. 228-263.150.
Miki, Masayuki: *See*—
Suzuki, Seiko; Sasayama, Takao; and Miki, Masayuki, 4,664,773, Cl. 204-406.000.
Miki, Nobuaki; Nakamura, Shinya; and Shibata, Kazuhiko, to Aisin Warner Kabushiki Kaisha. Shift valve with an intermediate position during a 4-2 shift. 4,662,249, 5-5-87, Cl. 74-869.000.
Miki, Nobuaki: *See*—
Yokoyama, Shoji; and Miki, Nobuaki, 4,664,235, Cl. 192-3.290.
Miki, Nobuhiro, to Hashimoto Chemical Industries Co., Ltd. Process for purifying hydrogen fluoride. 4,668,497, 5-26-87, Cl. 423-484.000.
Miki, Nobuyuki; Yamaoka, Hiroshi; and Tanaka, Yoichi, to TDK Corporation. Thermistor element and method of manufacturing the same. 4,712,085, 12-8-87, Cl. 338-22.0SD.
Miki, Takahiro: *See*—
Ando, Hideki; and Miki, Takahiro, 4,695,826, Cl. 340-347.0DA.
Miki, Tatsuya; Saito, Takashi; and Kishima, Yukihiro, to Victor Company of Japan, Limited. Arrangement for mounting a plurality of motors. 4,661,735, 4-28-87, Cl. 310-112.000.
Miki, Toshiro: *See*—
Niizuma, Hiroshi; Miki, Toshiro; Kojima, Shiro; Azuma, Kishiro; Kato, Hiroyuki; Murakami, Yuichi; and Ito, Tsutomu, 4,677,225, Cl. 562-599.000.
Miki, Toshiyuki; Tomioka, Kunio; Sakurai, Terushige; and Nakajima, Masao, to Kabushiki Kaisha Komatsu Seisakusho; and Aoki Corporation. Apparatus for cutting ribbed bars or the like into desired lengths. 4,653,367, 3-31-87, Cl. 83-156.000.
Miki, Toshiyuki; Tomioka, Kunio; Nakajima, Masao; and Sakurai, Terushige, to Kabushiki Kaisha Komatsu Seisakusho; and Aoki Corporation. Apparatus for feeding bars through a bending or like processing station. 4,681,210, 7-21-87, Cl. 198-468.200.
Miki, Yasuhiko; and Takita, Kentaro, to Sony/Tektronix Corporation. Digital pattern generator. 4,692,886, 9-8-87, Cl. 364-718.000.
Miki, Yasuhiro, to Brother Kogyo Kabushiki Kaisha. Apparatus for printing with character fonts and dot-matrix printing in the same line. 4,684,269, 8-4-87, Cl. 400-82.000.
Miki, Yasuhiro: *See*—
Yamamoto, Takemi; and Miki, Yasuhiro, 4,685,814, Cl. 400-82.000.
Miki, Yoshio: *See*—
Minamizaki, Yoshihiro; Miki, Yoshio; Yamamoto, Takayuki; Ito, Akira; and Sakagami, Toshinori, 4,699,938, Cl. 524-271.000.
Miki, Yukio: *See*—
Ando, Makoto; and Miki, Yukio, 4,711,528, Cl. 350-257.000.
Taniguchi, Toshihiko; and Miki, Yukio, 4,682,273, Cl. 362-18.000.
Miki, Yutaka: *See*—
Sakata, Yoshitsugu; Miyashita, Yoshibonu; Hamanaka, Tadashi; Kodera, Hiroyuki; Miki, Yutaka; Yamanishi, Kazuhiko; and Hanada, Toshiro, 4,695,539, Cl. 435-10.000.
Mikics, Laszlo: *See*—
Nemeth, Attila; Dolozselek, Gyula; Mikics, Laszlo; Molnar, Bela; Sallai, Mihaly; Liska, Sandor; and Speck, Gyula, 4,670,901, Cl. 379-292.000.
Mikina, Stanley J. Vehicle collision bumper. 4,679,838, 7-14-87, Cl. 293-137.000.
Mikino, Tomoatsu: *See*—
Kawai, Motoshi; Yamamoto, Noboru; Mase, Katuhisa; Matsui, Takeshi; Mikino, Tomoatsu; Miyase, Yoshiyuki; Okuda, Ryoichi; and Suzumura, Koichi, 4,649,888, Cl. 123-609.000.
Mikita, Muneharu; Tanioku, Shozo; and Touda, Takayasu, to American Colloid Company. Process for preparing dry solid water absorbing polyacrylate resin. 4,654,393, 3-31-87, Cl. 526-240.000.
Mikita, Muneharu; Tanioku, Shozo; and Touda, Takayasu, to American Colloid Company. Process for preparing dry solid water absorbing polyacrylate resin. 4,703,067, 10-27-87, Cl. 521-63.000.
Mikiya, Toshio; Kaneko, Minoru; and Kazama, Yasuo, to Nitto Kohki Co., Ltd. Cushioning device for use with a pneumatic impact tool or the like. 4,681,172, 7-21-87, Cl. 173-139.000.
Mikiya, Toshio: *See*—
Takeuchi, Hirosato; and Mikiya, Toshio, 4,649,903, Cl. 126-443.000.
Takeuchi, Hirosato; and Mikiya, Toshio, 4,653,471, Cl. 126-433.000.
Mikkelsen, Per W., to Wittenborgs Automatfabriker A/S. Vending machine delivering cups containing freshly made beverages. 4,635,816, 1-13-87, Cl. 221-11.000.
Mikkola, Antti R.; Hakkinen, Heli-Riitta M.; Nuotio, Lasse O.; Nurmi, Esko V.; and Schneitz, Carita E., to Farmos-Yhtyma Oy. Anaerobic bacterial preparations of intestinal origin and their use. 4,657,762, 4-14-87, Cl. 424-93.000.
Mikkor, Mati, to Ford Motor Company. Hermetic sealing of silicon. 4,701,424, 10-20-87, Cl. 437-209.000.
Mikkor, Mati, to Ford Motor Company. High temperature pressure sensor with low parasitic capacitance. 4,701,826, 10-20-87, Cl. 361-283.000.
Miko, Hans-Jurgen, to Eternit-Werke Ludwig Hatschek Aktiengesellschaft. Roofing element. 4,662,141, 5-5-87, Cl. 52-553.000.
Miko, Stephen J.: *See*—
Puchala, Ryszard J.; and Miko, Stephen J., 4,640,644, Cl. 404-75.000.
Mikola, James A., to Ford Motor Company. Retaining mechanism for securing a lamp base within a socket. 4,647,132, 3-3-87, Cl. 339-91.00L.
Mikolaicyk, John H.; and Krantz, Leonard A., Jr., to Alfred Corporation. Lens holder assembly for a fiber optic connector. 4,639,076, 1-27-87, Cl. 350-96.200.
Mikos, Aloysius J., to Leggett & Platt, Incorporated. Latch particularly for an adjustable head section of a foldable sofa-sleeper frame. 4,669,134, 6-2-87, Cl. 5-13.000.
Mikoshiba, Hitoshi, to Seiko Epson Kabushiki Kaisha. Compact printer with hammer structure within type drum. 4,683,819, 8-4-87, Cl. 101-93.220.
Mikoshiba, Shigeo: *See*—
Kato, Yasuo; Ono, Tetsuo; Watanabe, Yoshio; Murayama, Seiichi; Mikoshiba, Shigeo; and Matsuno, Hiromitsu, 4,697,121, Cl. 313-595.000.
Mikropul Corporation: *See*—
Heidinger, Alfred J.; and Duyckinck, Robert W., 4,681,676, Cl. 209-380.000.
Mikroyannidis, John A.; and Kourtides, Demetrius A., to United States of America, National Aeronautics and Space Administration. Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-[(diorganooxyphosphonyl)methyl]-2,4- and -2,6-diaminobenzenes. 4,670,565, 6-2-87, Cl. 548-413.000.
Mikroyannidis, John A.; and Kourtides, Demetrius A., to United States of America, National Aeronautics and Space Administration. Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl)-methyl]-2,4-and-2,6-diaminobenzenes. 4,675,379, 6-23-87, Cl. 528-413.000.
Mikroyannidis, John A.; and Kourtides, Demetrius A., to United States of America, National Aeronautics and Space Administration. 1-[(diorganooxyphosphonyl)methyl]-2,4,- and -2,6-diamino benzines and their derivatives. 4,689,421, 8-25-87, Cl. 558-145.000.

Mikuchi, Fumihiro: *See*—
Kitano, Kyozo; Mikuchi, Fumihiro; and Terao, Toshimi, 4,671,903, Cl. 260-505.00R.

Mikula, George: *See*—
Jacklich, John; and Mikula, George, 4,710,172, Cl. 604-118.000.

Mikula, Randy J.; Mikhail, Magdy W.; Dean, D. Michael; and Savage, John D., to Canada, Her Majesty the Queen in right of, as represented by the Minister of Energy, Mines and Resources. Delta P instrument for oxidation measurement. 4,671,098, 6-9-87, Cl. 73-19.000.

Mikulan, Willy E. Universally-movable machine part and fluid transfer apparatus utilizing same. 4,648,813, 3-10-87, Cl. 418-49.000.

Mikulas, Martin M., Jr.; Rhodes, Marvin D.; and Simonton, J. Wayne, to United States of America, National Aeronautics and Space Administration. Deployable geodesic truss structure. 4,677,803, 7-7-87, Cl. 52-646.000.

Mikulas, Martin M., Jr.: *See*—
Bush, Harold G.; Mikulas, Martin M., Jr.; Wallsom, Richard E.; and Jensen, J. Kermit, 4,685,535, Cl. 182-63.000.

Mikulecky, Harvey W., to RTE Corporation. Removable fuse assembly for pad mounted underground distribution switchgear. 4,688,145, 8-18-87, Cl. 361-349.000.

Mikulich, Michael A.; Burton, John H.; and Porter, Christopher H., to American Medical Systems, Inc. Penile prosthesis system. 4,651,721, 3-24-87, Cl. 128-79.000.

Mikulski, Barry S.; McDonald, Duane L.; and Deffenbaugh, Lynn B., to General Mills, Inc. Package for frozen foods for microwave heating. 4,703,148, 10-27-87, Cl. 219-10.55E.

Mikuni, Hajime: *See*—
Ando, Noriyoshi; Mikuni, Hajime; Matsunaga, Mitsuru; Horie, Naoki; and Kishigami, Tomohisa, 4,682,228, Cl. 358-161.000.

Mikuni Kogyo Kabushiki Kaisha: *See*—
Makino, Hiroshi; and Sasaki, Akio, 4,690,119, Cl. 123-571.000.
Muraji, Tetsuo, 4,709,677, Cl. 123-438.000.
Sawada, Katsuji; and Kikuchi, Kunio, 4,669,974, Cl. 431-154.000.

Mikuni, Yoshio, to Maruzen Sewing Machine Co., Ltd. Sewing machine loop taker attaching construction. 4,638,750, 1-27-87, Cl. 112-230.000.

Mikuni, Yoshio, to Maruzen Sewing Machine Co., Ltd. Loop taker for sewing machines. 4,660,487, 4-28-87, Cl. 112-230.000.

Mikuni, Yoshio; Tanaka, Osamu; and Matsuda, Kimikazu, to Maruzen Sewing Machine Co., Ltd. Upper thread guide mechanism for sewing machines. 4,688,501, 8-25-87, Cl. 112-241.000.

Mikuni, Yoshio; and Koshinaka, Osamu, to Maruzen Sewing Machine Co., Ltd. Overedge sewing machine. 4,690,080, 9-1-87, Cl. 112-162.000.

Mikuniya, Kunio; and Kojima, Akira, to Tachikawa Spring Co. Ltd. Tandem seat for a two-wheeled vehicle. 4,691,963, 9-8-87, Cl. 297-195.000.

Mikuteit, Axel: *See*—
Boeckmann, Juergen; Bruhn, Bernhard; Hofmann, Harald; Hoejer, Anke; Mikuteit, Axel; Ritter, Hans-Joachim; and Tenhagen, Rolf, 4,669,617, Cl. 211-69.700.

Mikyska, Glenn E.: *See*—
Siczek, Roman W.; Stanley, William W.; and Mikyska, Glenn E., 4,673,297, Cl. 366-208.000.

Mila Hardware & Machinery (UK) Limited: *See*—
Lahmann, Ernst; Walder, Werner; and Burger, Friedhelm, 4,634,160, Cl. 292-336.300.

Milam, Jack J. Apparatus for a tubular string and method of attaching the same thereto. 4,658,896, 4-21-87, Cl. 166-241.000.

Milan, John M., to ITT Gilfillan. Adaptive, fault-tolerant narrowband filterbank. 4,694,298, 9-15-87, Cl. 342-89.000.

Milanese, Alberto: *See*—
Desideri, Derio; Stradi, Riccardo; and Milanese, Alberto, 4,705,855, Cl. 544-370.000.

Milankov, Bosko: *See*—
Temple, George A.; Kirkwood, Donald W.; and Milankov, Bosko, 4,655,047, Cl. 62-64.000.

Milano, Pamela D.: *See*—
Heather, James B.; and Milano, Pamela D., 4,695,673, Cl. 568-310.000.

Milano, Robert: *See*—
Sahm, Michael K.; and Milano, Robert, 4,705,455, Cl. 416-97.00R.

Milanovich, Fred P.: *See*—
Miller, Holly; Milanovich, Fred P.; Hirschfeld, Tomas B.; and Miller, Fred S., 4,666,672, Cl. 422-68.000.

Milbar Corporation: *See*—
Anderson, J. Edward C., 4,674,184, Cl. 30-92.000.
Box, Joe G., 4,635,510, Cl. 81-319.000.

Milberger, Ernest C.: *See*—
Bremer, Noel J.; Dria, Dennis E.; Milberger, Ernest C.; Blum, Patricia R.; and Nicholas, Mark L., 4,647,673, Cl. 549-260.000.

Milberger, Lionel J.: *See*—
Pallini, Joseph W., Jr.; and Milberger, Lionel J., 4,711,471, Cl. 285-81.000.

Milberger, Walter E.; Cohen, Joel R.; and Dubrowsky, Leonard, to United States of America, Air Force. Electromagnet for programmable microwave circulator. 4,682,126, 7-21-87, Cl. 333-81.00B.

Milberger, Walter E.: *See*—
Jones, Franklin B.; and Milberger, Walter E., 4,667,144, Cl. 323-271.000.
Jones, Franklin B.; Milberger, Walter E.; and Kerfoot, Charles S., 4,683,387, Cl. 307-571.000.
Jones, Franklin B.; Kerfoot, Charles S.; and Milberger, Walter E., 4,686,448, Cl. 323-212.000.
Jones, Franklin B.; Milberger, Walter E.; Bulgher, David E.; and Kerfoot, Charles S., 4,698,747, Cl. 363-124.000.

Milbocker, Daniel C. Humidifier. 4,657,712, 4-14-87, Cl. 261-90.000.

Milburn Research Corporation: *See*—
Milburn, William W., Jr., 4,672,989, Cl. 137-1.000.

Milburn, William W., Jr., to Milburn Research Corporation. Flow conditioned nutation valving apparatus and method of operation. 4,672,989, 6-16-87, Cl. 137-1.000.

Milby, Gregory H.: *See*—
Lauffer, Donald K.; Milby, Gregory H.; Rostek, Paul M.; and Sanwo, Ikuo J., 4,713,827, Cl. 375-7.000.

Milby, Todd W.: *See*—
Skarman, John S.; and Milby, Todd W., 4,672,229, Cl. 307-115.000.

Milch, James R., to Eastman Kodak Company. Multiple exposure of area image sensor having a sparse array of elements. 4,638,371, 1-20-87, Cl. 358-293.000.

Milchem Incorporated: *See*—
Clapper, Dennis K.; Perricone, Alphonse C.; and Salisbury, Darrell P., 4,663,076, Cl. 252-356.000.

Mildenberger, Hilmar: *See*—
Handte, Reinhard; Mildenberger, Hilmar; Bauer, Klaus; and Bieringer, Hermann, 4,668,276, Cl. 71-88.000.
Kehne, Heinz; Mildenberger, Hilmar; Bauer, Klaus; and Bieringer, Hermann, 4,652,666, Cl. 558-175.000.
Zeiss, Hans-Joachim; and Mildenberger, Hilmar, 4,692,541, Cl. 558-87.000.

Mildrum, Claude M., to Westinghouse Electric Corp. Fuel rod with annular nuclear fuel pellets having same U-235 enrichment and different annulus sizes for graduated enrichment loading. 4,687,629, 8-18-87, Cl. 376-428.000.

Mildrum, Claude M.; and Taleyarkhan, Rusi P., to Westinghouse Electric Corp. BWR fuel assembly with improved spacer and fuel bundle design for enhanced thermal-hydraulic performance. 4,708,845, 11-24-87, Cl. 376-435.000.

Mildrum, Claude M.: *See*—
Orr, William L.; Doshi, Pratap K.; Mildrum, Claude M.; and Freeman, Thomas R., 4,642,216, Cl. 376-327.000.

Mile High Equipment Company: *See*—
Yingst, Thomas E.; and Weis, Fredrick A., 4,706,466, Cl. 62-138.000.

Mileikowsky, Curt. Radiation therapy for cancer patients. 4,705,955, 11-10-87, Cl. 250-492.100.

Milenkovic, Veljko: *See*—
Huang, Bernard; and Milenkovic, Veljko, 4,716,350, Cl. 318-568.000.

Mileos, George: *See*—
Madden, Paul R.; Kostanecki, Andrew T.; Mileos, George; and Michno, Michael J., Jr., 4,645,091, Cl. 220-85.00P.

Miler, Rajko; and Guina, Milan, to Westinghouse Electric Corp. Safety cooling installation for a water nuclear reactor. 4,668,467, 5-26-87, Cl. 376-282.000.

Miles, Anthony W.: *See*—
Bowman, Charles H.; Farringer, Jeffrey A.; Garwin, Richard L.; Greene, Larry L.; Levine, James L.; Miles, Anthony W.; and Vorhees, Kevin H., 4,675,569, Cl. 310-328.000.

Miles, Brynley J., to United Kingdom Atomic Energy Authority. Coating method for preparing composite material. 4,670,303, 6-2-87, Cl. 427-213.310.

Miles, David L.: *See*—
Cann, Kevin J.; Miles, David L.; and Karol, Frederick J., 4,670,526, Cl. 526-125.000.

Miles, Donald L.; and Charles, Harry R., to Chemfil Corporation. Magnesium sulfate and complex silicate mineral paint denaturant. 4,699,730, 10-13-87, Cl. 252-181.000.

Miles, Gilbert. Container with removable transfer flask. 4,671,330, 6-9-87, Cl. 141-24.000.

Miles Inc.: *See*—
Morris, James R.; and White, James A., 4,714,874, Cl. 324-65.00R.

Miles Italiana S.p.A.: *See*—
Dona, Valerio, 4,686,181, Cl. 435-7.000.

Miles, James E., to Isotechnologies, Inc. Valve system for exercise apparatus. 4,695,100, 9-22-87, Cl. 303-10.000.

Miles, James E.: *See*—
McIntyre, Donald R.; and Miles, James E., 4,678,186, Cl. 272-134.000.

Miles, James J.: *See*—
Smith, John M.; and Miles, James J., 4,657,710, Cl. 261-46.000.

Miles, John L.: *See*—
Devaney, Christopher M.; Martineau, Robert J.; Miles, John L.; and Wong, Theodore T. S., 4,634,493, Cl. 156-616.00R.

Miles Laboratories, Inc.: *See*—
Abram, Trevor S.; Norman, Peter; and Warren, Brian T., 4,639,535, Cl. 549-419.000.
Alexander, Thomas A.; and Peterson, Donald L., 4,650,669, Cl. 424-44.000.
Barach, Jeffrey T.; and Talbott, Larry L., 4,707,364, Cl. 426-36.000.
Barnes, Bruce E.; and Mahal, Mohan S., 4,670,013, Cl. 604-403.000.
Bliznik, Kenneth E.; and Verboom, Gilles M. L., 4,686,065, Cl. 252-159.000.
Boguslawski, Sophie J.; and DeRiemer Anderson, Leslie H., 4,689,294, Cl. 435-6.000.
Brewer, Jack W.; and Kim, Chong Y., 4,659,667, Cl. 435-222.000.
Brothers, Charles E.; and Kim, Chong Y., 4,673,647, Cl. 435-189.000.
Brunsting, Albert, 4,657,398, Cl. 356-418.000.

Buckler, Robert T.; and Thompson, Stephan G., 4,647,668, Cl. 546-333.000.
Buckler, Robert T.; Burd, John F.; and Thompson, Stephan G., 4,650,771, Cl. 436-536.000.
Buckler, Robert T.; and Ward, Frederick E., 4,673,763, Cl. 564-155.000.
Cahill, Sally E.; and Smith, Melvin D., 4,650,768, Cl. 436-125.000.
Charlton, Steven C.; Fleming, Roger L.; Hemmes, Paul; and Lau, Arthur L. Y., 4,645,744, Cl. 436-74.000.
Charlton, Steven C.; Hemmes, Paul; and Lau, Arthur L. Y., 4,649,123, Cl. 436-79.000.
Chiang, John P.; and Lantero, Oreste J., Jr., 4,689,296, Cl. 435-97.000.
Chiang, John P.; and Lantero, Oreste J., Jr., 4,713,333, Cl. 435-96.000.
Coan, Michael H., 4,697,003, Cl. 530-380.000.
Collins, Michael S.; Tsay, Grace C.; and Seng, Richard L., 4,693,891, Cl. 424-92.000.
Corey, Paul F.; Ward, Frederick E.; Yip, Kin F.; and Yip, Meitak T., 4,645,842, Cl. 548-541.000.
Corey, Paul F.; Skjold, A. Christopher; Pendergrass, James H.; and Stover, Lonnie, 4,657,855, Cl. 435-19.000.
Corey, Paul F., 4,668,822, Cl. 562-579.000.
Corey, Paul F., 4,704,460, Cl. 549-65.000.
Dobkin, Milton B., 4,659,563, Cl. 424-86.000.
Dobkin, Milton B., 4,665,159, Cl. 530-387.000.
Dove, George B.; and Mitra, Gautam, 4,684,723, Cl. 530-351.000.
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Miller, Gary E. Simultaneous C and N bio-oxidation with multi-stage RBC recycling. 4,692,250, 9-8-87, Cl. 210-619.000.
Miller, Gary J.: *See—*
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Miller, Gary L.: *See—*
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Miller, Gayle W.: *See—*
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Miller, George E., Jr.; and Rice, Jon D. Apparatus for tagging and detecting surgical implements. 4,658,818, 4-21-87, Cl. 128-303.100.
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Miller, Gerald W.; and Lutzmann, H. Harald. Plasticized polyvinyl alcohol compositions, forming process and formed articles. 4,672,087, 6-9-87, Cl. 524-141.000.
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Miller, Glen E., to Boeing Company, The. System for determining the position of the boundary between substances having different refractive indices. 4,641,025, 2-3-87, Cl. 250-227.000.
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Baughman, Ray H.; Elsenbaumer, Ronald L.; Iqbal, Zafar; Miller, Granville G.; and Eckhardt, Helmut, 4,646,066, Cl. 340-540.000.
Elsenbaumer, Ronald L.; Miller, Granville G.; and Toth, James E., 4,640,006, Cl. 29-623.100.
Miller, Guy W.: *See—*
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Miller, H. Timothy, to Lord Corporation. Fluid filled vibration isolator having precisely adjustable dynamic operating characteristics. 4,712,777, 12-15-87, Cl. 267-140.100.
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Miller, Heinz: *See—*
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Miller, Henry C.: *See—*
Hein, Paul R.; Miller, Henry C.; and Brewster, W. Darlene, 4,666,821, Cl. 430-311.000.
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Miller, Hubert A.: *See—*
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Miller, Ian: *See—*
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Miller, Ira, to Motorola, Inc. Current to voltage converter circuit. 4,642,551, 2-10-87, Cl. 323-314.000.
Miller, Ira, to Motorla, Inc. Low voltage, single power supply operated digital analog converter. 4,644,325, 2-17-87, Cl. 340-347.0DA.
Miller, Ira, to Motorola, Inc. Low voltage, high precision current source. 4,647,841, 3-3-87, Cl. 323-316.000.
Miller, Ira; and Hanna, John E., to Motorola, Inc. DC to DC converter. 4,698,737, 10-6-87, Cl. 363-63.000.
Miller, Ira: *See—*
Hanna, John E.; and Miller, Ira, 4,689,651, Cl. 357-36.000.
Miller, J. Wayne; and Ward, John W., to Union Oil Company of California. Desulfurization process. 4,695,366, 9-22-87, Cl. 208-91.000.
Miller, Jack E., to Harry Major Machine & Tool Co. Accumulating conveyor. 4,681,212, 7-21-87, Cl. 198-803.200.
Miller, Jack E., to International Clamp Company. Coupling for coupling tubular members. 4,699,405, 10-13-87, Cl. 285-338.000.
Miller, Jack V. Low voltage lighting fixture with integral thermally controlled coaxial transformer. 4,682,276, 7-21-87, Cl. 362-294.000.
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Sommer, Harold Z.; and Miller, Jacob I., 4,675,411, Cl. 546-292.000.
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Miller, James A.: *See—*
Evert, Robert P.; and Miller, James A., 4,704,886, Cl. 72-57.000.
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Miller, James C.: *See—*
Horvath, Joseph G.; and Miller, James C., 4,716,487, Cl. 361-42.000.
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Miller, James W.: *See—*
Beck, Donald; Miller, James W.; Wernau, William C.; and Young, Thomas B., III, 4,639,322, Cl. 252-8.554.
Miller, Jan D.; and Wan, Rong-yu, to University of Utah. Direct gold electrolysis from a loaded organic phase. 4,657,642, 4-14-87, Cl. 204-59.00M.
Miller, Jan D.; and Misra, Manoranjan, to University of Utah. Coal cleaning by gaseous carbon dioxide conditioning and froth flotation. 4,676,804, 6-30-87, Cl. 44-1.00R.
Miller, Jeffrey A., to Du Pont de Nemours, E. I., and Company. Polynucleotide hydridization assays employing catalyzed luminescence. 4,670,379, 6-2-87, Cl. 435-6.000.

Miller, Jeffrey T.: *See*—
Zletz, Alex; Satek, Larry C.; and Miller, Jeffrey T., 4,645,753, Cl. 502-202.000.

Miller, Jerry G.: *See*—
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Miller, Jesse D., Jr.; Tshudy, James A.; and Unruh, Ralph E., to Armstrong World Industries, Inc. Floor tile product and process. 4,689,259, 8-25-87, Cl. 428-142.000.

Miller, Joel S., to Du Pont de Nemours, E. I., and Company. Ink jet printing of printed circuit boards. 4,668,533, 5-26-87, Cl. 427-98.000.

Miller-Johannisberg Druckmaschinen GmbH: *See*—
Weisgerber, Willi, 4,643,414, Cl. 271-183.000.

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Miller, John A.; and Walker, James D., to Unisys Corporation. Parallel connected power supplies having parallel connected control circuits which equalize output currents to a load even after one supply is turned off. 4,698,738, 10-6-87, Cl. 363-65.000.

Miller, John A.: *See*—
Wood, Leigh E.; Miller, John A.; and Sipinen, Alan J., 4,710,190, Cl. 604-389.000.

Miller, John C., Jr. Holder for side-handle baton with allen wrench. 4,694,981, 9-22-87, Cl. 224-251.000.

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Miller, John D.; and Verrando, Marcel G., to Pall Corporation. Sorbing apparatus. 4,687,573, 8-18-87, Cl. 210-143.000.

Miller, John E., to Parma Corporation. Body support for bed or seat. 4,654,905, 4-7-87, Cl. 5-249.000.

Miller, John E.: *See*—
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Miller, John E., Jr., to Woodmaster Tools, Inc. Planer having removable head. 4,660,609, 4-28-87, Cl. 144-117.00R.

Miller, John F.; Scivally, Jesse F.; and Smalley, Robert B., Jr., to Morton Thiokol, Inc. Apparatus responsive to entry into space and method of operation thereof. 4,651,764, 3-24-87, Cl. 137-81.100.

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Ebner, Peter R.; Ebner, Emanual C., Jr.; Shaw, John H.; Miller, John G.; and Gorelick, Donald E., 4,691,987, Cl. 350-96.230.

Miller, John H.: *See*—
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Miller, John M.: *See*—
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Miller, John R., to Kennecott Corporation. Extended life capacitor and method. 4,683,516, 7-28-87, Cl. 361-328.000.

Miller, John R.: *See*—
Glocker, David A.; Miller, John R.; Grimshaw, Scott F.; and Windischmann, Henry, 4,637,869, Cl. 204-192.110.

Miller, John S. Electromagnetic shield. 4,703,133, 10-27-87, Cl. 174-35.0GC.

Miller, John V.: *See*—
Carlson, William R.; Gjertsen, Robert K.; and Miller, John V., 4,683,117, Cl. 376-449.000.

Miller, John W., to Lockheed Corporation. Autothrottle system. 4,651,954, 3-24-87, Cl. 244-76.00R.

Miller, John W., to Honeywell Inc. Remote attitude sensor using single camera and spiral patterns. 4,652,917, 3-24-87, Cl. 358-107.000.

Miller, John W.; Mittelmark, Melvin F.; and Schmidt, Roger N., to Honeywell Inc. Auxiliary starting for electric motors. 4,707,644, 11-17-87, Cl. 318-136.000.

Miller, John W.: *See*—
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Egli, Werner H.; Miller, John W.; and Setterholm, Jeffrey M., 4,672,564, Cl. 364-559.000.
O'Hara, Frank; and Miller, John W., 4,647,260, Cl. 408-241.00S.

Miller, Jon E.: *See*—
Carpenter, Keith H.; Miller, Jon E.; and Murphy, John W., 4,642,502, Cl. 310-156.000.

Miller-Jones, Stockton M.: *See*—
Riley, James K.; and Miller-Jones, Stockton M., 4,662,223, Cl. 73-626.000.

Miller, Jorge. Preparation of cement using stabilized fibers of metastable calcium silicate. 4,668,300, 5-26-87, Cl. 106-314.000.

Miller, Joseph: *See*—
Eninger, James E.; Miller, Joseph; Murch, Charles K.; and Ginbey, Leland A., 4,651,834, Cl. 175-18.000.

Miller, Joseph A.: *See*—
Loomans, Maurice E.; Matthews, Randall S.; and Miller, Joseph A., 4,708,966, Cl. 514-689.000.

Miller, Joseph C.: *See*—
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Miller, Jule A., to Avco Corporation. Apparatus and method for edge welding sheet metal. 4,644,129, 2-17-87, Cl. 219-121.0LC.

Miller, Jule A.; Bazan, Mary; and Bessette, Gerard E., to Avco Corporation. Method and apparatus for welding. 4,658,110, 4-14-87, Cl. 219-121.0LC.

Miller, Kenneth F.: *See*—
Rosenquist, Niles R.; and Miller, Kenneth F., 4,701,538, Cl. 549-228.000.

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Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Miller, Kevin P.; Luccarelli, Domenick, Jr.; and Wiener, Charles, 4,652,670, Cl. 560-147.000.
Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Miller, Kevin P.; and Luccarelli, Domenick, Jr., 4,652,682, Cl. 568-50.000.
Pittet, Alan O.; Muralidhara, Ranya; Miller, Kevin P.; Luccarelli, Domenick, Jr.; and Vock, Manfred H., 4,658,067, Cl. 568-38.000.
Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Miller, Kevin P.; and Luccarelli, Domenick, Jr., 4,694,106, Cl. 568-38.000.
Pittet, Alan O.; Muralidhara, Ranya; Luccarelli, Domenick, Jr.; Miller, Kevin P.; and Vock, Manfred H., 4,695,473, Cl. 426-535.000.
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Miller, Larry D., to General Motors Corporation. Easy access seat belt system. 4,684,153, 8-4-87, Cl. 280-808.000.

Miller, Larry G.; Whiting, Harold E.; and Willcox, Dale, to Furnas Electric Company. Pressure switch with rolling diaphragm. 4,709,126, 11-24-87, Cl. 200-83.00P.

Miller, Larry G.: *See*—
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Miller, Larry J.; Wells, Richard K.; and Tippetts, Ronald B., to Sperry Corporation. Quad multi-channel synthesizer. 4,644,195, 2-17-87, Cl. 307-518.000.

Miller, Larry J.; Johnson, Clifford T.; and Rattlingourd, Glen D., to Sperry Corporation. Standard/proportional multiplexer. 4,680,759, 7-14-87, Cl. 370-112.000.

Miller, Larry J.; Rattlingourd, Glen D.; and Johnson, Clifford T., to Sperry Corporation. High rate multiplexer. 4,685,106, 8-4-87, Cl. 370-112.000.

Miller, Larry J.: *See*—
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Miller, Laurence B.: *See*—
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Miller, Laurence L., to TRW Inc. Fluid flow control apparatus for a power steering system. 4,691,797, 9-8-87, Cl. 180-143.000.

Miller, Lawrence J.; and Chitwood, Donald P., to Tektronix, Inc. Method and apparatus for calibrating deflection in an oscilloscope. 4,677,340, 6-30-87, Cl. 315-10.000.

Miller, Lester: *See*—
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Miller, Lewis J., to Westinghouse Electric Corp. Blade ring for a steam turbine. 4,699,566, 10-13-87, Cl. 415-107.000.

Miller, Liliane, to Somycel. Strains of pleurotus. 4,658,083, 4-14-87, Cl. 800-1.000.

Miller, Lillias S. Holding screw. 4,636,121, 1-13-87, Cl. 411-21.000.

Miller, Louis D., to RCA Corporation. Pickup tube having a mesh assembly with field modifying means. 4,668,891, 5-26-87, Cl. 313-390.000.

Miller, Louis D.; and Kaiser, Donald B., to RCA Corporation. Imaging system having an improved support bead and connector. 4,692,658, 9-8-87, Cl. 313-365.000.

Miller, Luitpold; and Raschbichler, Hans-Georg, to Thyssen Industrie AG. Magnetic suspension railway. 4,641,586, 2-10-87, Cl. 104-284.000.

Miller, Luitpold; and Raschbichler, Hans G., to Thyssen Industrie AG. Method of securing equipment parts to a trackway supporting structure. 4,698,895, 10-13-87, Cl. 29-464.000.

Miller, Luitpold: *See*—
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Miller, M. Robert: *See*—
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Miller, Mahlon A., to Newmar Corporation. Door stop and latch. 4,691,958, 9-8-87, Cl. 296-146.000.

Miller, Mahlon A. Trailer front stone guard. 4,706,991, 11-17-87, Cl. 280-770.000.

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Lee, Len F.; and Miller, Maria L., 4,698,093, Cl. 71-94.000.

Miller, Mark A.: *See*—
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Miller, Mark W.: *See*—
Maher, Joseph A.; Vowles, E. John; Napoli, Joseph D.; Zafiropoulo, Arthur W.; and Miller, Mark W., 4,715,921, Cl. 156-345.000.

Miller, Marvin J., to Notre Dame University. Cyclization process for β-lactams. 4,675,399, 6-23-87, Cl. 540-355.000.

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Fitzmayer, Louis H.; Staats, James E.; and Miller, Matthew S., 4,642,435, Cl. 219-10.55F.

Miller, Merlin R.: *See—*
Bates, Roger D.; and Miller, Merlin R., 4,647,912, Cl. 340-825.500.

Miller, Michael A., to 20th Century Machine. Method of forming a helical ball screw member. 4,638,548, 1-27-87, Cl. 29-558.000.

Miller, Michael E., to Stein Associates, Inc. Fluffer mechanism for breading machine. 4,662,306, 5-5-87, Cl. 118-16.000.

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Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,683,575, Cl. 372-59.000.
Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,685,109, Cl. 372-61.000.

Miller, Michael J., to Advanced Micro Devices, Inc. Central processing unit having built-in BCD operation. 4,638,300, 1-20-87, Cl. 340-347.0DD.

Miller, Michael J., to GTE Products Corporation. Method for producing fine cobalt metal powder. 4,705,559, 11-10-87, Cl. 75-0.5AA.

Miller, Michael J., to Integrated Device Technology, Inc. Diagnostic circuit. 4,710,927, 12-1-87, Cl. 371-15.000.

Miller, Michael J.: *See—*
Scheithauer, Richard A.; Vanderpool, Clarence D.; Miller, Michael J.; and Gingerich, Richard G. W., 4,690,710, Cl. 75-0.5AA.

Miller, Michael K.: *See—*
Stockton, Warren D.; and Miller, Michael K., 4,676,137, Cl. 89-33.020.

Miller, Michael R.: *See—*
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Miller, Mike F.; and Gunther, Kim M., to Spectra-Physics, Inc. Internal resonator water cooled ion laser. 4,715,039, 12-22-87, Cl. 372-37.000.

Miller, Nick M., III, to Firestone Tire & Rubber Company, The. Tire marker. 4,670,289, 6-2-87, Cl. 427-8.000.

Miller, Norbert: *See—*
Braun, Gunter; Jundt, Werner; Miller, Norbert; and Nager, Jurgen, 4,689,746, Cl. 364-431.050.

Miller, Norman K. High sensitivity mat switch. 4,661,664, 4-28-87, Cl. 200-86.00R.

Miller, Paul A.: *See—*
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Miller, Paul E.: *See—*
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Miller, Paul H.: *See—*
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Miller, Peggy H.: *See—*
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Miller, Peter: *See—*
Millsap, James W., 4,650,375, Cl. 408-6.000.

Miller, Philip E.: *See—*
Spiegelman, Stanley R.; Miller, Philip E.; Washington, Nathaniel; and Grande, Vincent J., 4,659,898, Cl. 219-117.100.

Miller, Phillip E.: *See—*
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Miller, Ralph; Bollini, Jakob L.; and Schneider, Robert, to Ciba-Geigy Corporation. Production of sulfonated amines. 4,681,710, 7-21-87, Cl. 260-508.000.

Miller, Ralph, to T-Thermal, Inc. Simultaneous separation and conversion to sulfur of H_2S. 4,693,881, 9-15-87, Cl. 423-573.00R.

Miller, Ralph A.; and Brown, Frank J., to Garrett Corporation, The. Helicopter flotation. 4,655,415, 4-7-87, Cl. 244-105.000.

Miller, Ralph A.; and Whitney, Harry B., to Garrett Corporation, The. Inflatable evacuation device. 4,684,079, 8-4-87, Cl. 244-137.200.

Miller, Ralph G., to Boeing Company, The. Fire suppression system with controlled secondary extinguishant discharge. 4,643,260, 2-17-87, Cl. 169-46.000.

Miller, Ralph L.: *See—*
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Miller, Raymond S.: *See—*
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Miller, Reno W.; and Grobmyer, Louis R., to Westinghouse Electric Corp. Calibration of a nuclear reactor core parameter predictor. 4,711,753, 12-8-87, Cl. 376-216.000.

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Miller, Richard E., to Lacymil Corporation. Game ball. 4,653,752, 3-31-87, Cl. 273-60.00B.

Miller, Richard E. Wiper arm safety device. 4,663,797, 5-12-87, Cl. 15-250.190.

Miller, Richard F.; and Blaschke, Marilyn W. Alkylation aide for sulfuric acid catalyzed alkylation units. 4,650,918, 3-17-87, Cl. 585-458.000.

Miller, Richard F., to Atlantic Richfield Company. Inhibiting polymerization of vinyl aromatic monomers. 4,654,450, 3-31-87, Cl. 585-5.000.

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Miller, Richard F.; and Blaschke, Marilyn W., to Atlantic Richfield Company. Alkylation aide for sulfuric acid catalyzed alkylation units. 4,675,305, 6-23-87, Cl. 502-168.000.

Miller, Richard J. Hoisting and dumping container. 4,705,446, 11-10-87, Cl. 414-422.000.

Miller, Richard L. Apparatus for storing and relating visual data and computer information. 4,641,203, 2-3-87, Cl. 358-335.000.

Miller, Richard L.: *See—*
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Palombo, James L.; and Miller, Richard L., 4,675,349, Cl. 523-351.000.

Miller, Richard M. Vehicle cleaning system incorporating novel nozzle apparatus. 4,679,578, 7-14-87, Cl. 134-123.000.

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Miller, Richard T.; Sukhman, Yefim P.; and Welker, Lynn C., to Dow Corning Corporation. Method and apparatus for edge contouring lenses. 4,642,439, 2-10-87, Cl. 219-121.0LN.

Miller, Richard T.; Sukhman, Yefim P.; and Welker, Lynn C., to Dow Corning Corporation. Method and apparatus for edge contouring lenses. 4,652,721, 3-24-87, Cl. 219-121.0LG.

Miller, Richard T.; and Sukhman, Yefim P., to General Laser, Inc. Method for laser-induced removal of a surface coating. 4,671,848, 6-9-87, Cl. 156-643.000.

Miller, Ricky L.: *See—*
Raymond, William J.; Morgan, Robert L.; and Miller, Ricky L., 4,639,877, Cl. 364-513.500.
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Miller, Robert A.; and Marach, David R., to Allied Corporation. A.C. power entry module. 4,685,028, 8-4-87, Cl. 361-334.000.

Miller, Robert A.: *See—*
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Michaels, Leonard H.; and Miller, Robert A., 4,707,047, Cl. 439-271.000.

Miller, Robert C.; and Gorden, Dale I., to Westinghouse Electric Corp. Failed fuse detector and detecting method for rotating electrical equipment. 4,635,045, 1-6-87, Cl. 340-638.000.

Miller, Robert C.; and Asars, Juris A., to Westinghouse Electric Corp. Drift compensation technique for a magneto-optic current sensor. 4,683,421, 7-28-87, Cl. 324-96.000.

Miller, Robert C., to Westinghouse Electric Corp. Dual current transformer current sensing method and sensor. 4,683,513, 7-28-87, Cl. 361-76.000.

Miller, Robert C.; and Asars, Juris A., to Westinghouse Electric Corp. Optical measurement using polarized and unpolarized light. 4,694,243, 9-15-87, Cl. 324-96.000.

Miller, Robert C.; and Asars, Juris A., to Westinghouse Electric Corp. Direct current magneto-optic current transformer. 4,698,497, 10-6-87, Cl. 250-231.00R.

Miller, Robert C., to Westinghouse Electric Corp. Mutual inductor current sensor. 4,700,131, 10-13-87, Cl. 324-117.00H.

Miller, Robert C.: *See—*
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Pereira, Joseph J.; Delia, Anthony D.; and Miller, Scott W., 4,664,288, Cl. 220-209.000.

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Miller, Wendell D.: *See*—
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Milligan, Barton; Starner, William E.; Grandin, Roland E.; and Casey, Jeremiah P., to Air Products and Chemicals, Inc. Low melting urethane linked toluenediisocyanates. 4,683,279, 7-28-87, Cl. 528-67.000.

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Milligan, Dennis J.: *See*—
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Ashley, Fred C.; and McCullough, Robert W., 4,665,722, Cl. 68-198.000.
Baumgartner, Alan S.; Moore, Patrick D.; and VanDahm, Richard A., 4,640,690, Cl. 8-506.000.
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Burnett, Wilbur B., 4,653,546, Cl. 139-370.200.
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Lemonnier, Jean, 4,640,777, Cl. 210-433.200.
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Millis, Edwin G.; Bimer, Thomas C.; and Lewis, Alton D., to Texas Instruments Incorporated. Semiconductor slice cassette transport unit. 4,636,128, 1-13-87, Cl. 414-217.000.

Milliser, John, to Textron Inc. Clinch type fastener. 4,657,766, 1-20-87, Cl. 411-180.000.

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Millot, Jean-Paul, to Framatome & Cie. Core for a nuclear reactor cooled by water under pressure. 4,657,725, 4-14-87, Cl. 376-209.000.

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Mills, Arthur; and Curtis, Kenneth B. Lap-oriented portable desk units. 4,700,634, 10-20-87, Cl. 108-43.000.

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C.; and Jager, Stewart C. Game board. 4,709,929, 12-1-87, 000.
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A. Adjustable canopy for a wheel chair, beach chair, and 87,249, 8-18-87, Cl. 297-184.000.
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P. Golf club. 4,650,191, 3-17-87, Cl. 273-164.000.
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H., to Beecham Group p.l.c. Beta-lactam antibacterial 3,431, 6-2-87, Cl. 514-194.000.
E., to Axlon, Inc. Hand-held puppet with pseudo-voice 3,687,457, 8-18-87, Cl. 446-175.000.
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Hughes, David C., 4,641,831, Cl. 272-31.00R.
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Rosenthal, Henry; and Kronhaus, Howard E., 4,662,463, Cl. 177-164.000.
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Mimeur, Jacques: *See*—
Boirat, Robert; Faugeras, Philippe; Haux, Denis; and Mimeur, Jacques, 4,653,849, Cl. 350-96.220.
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Mimura, Itaru: *See*—
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Mimura, Nobuharu: *See*—
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Mimura, Takanobu: *See*—
Toida, Akikazu; Iwata, Satoshi; Takahashi, Fumio; and Mimura, Takanobu, 4,707,703, Cl. 346-1.100.

Mimura, Takashi, to Fujitsu Limited. Semiconductor device and process for producing the same. 4,663,643, 5-5-87, Cl. 357-22.000.

Mimura, Takashi; and Hiyamizu, Satoshi, to Fujitsu Limited. HEMT with epitaxial narrow bandgap source/drain contacts isolated from wide bandgap layer. 4,714,948, 12-22-87, Cl. 357-22.000.

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Mimura, Toshisada: *See*—
Kyoden, Hiroshi; Endo, Yasuhiro; Fujiwara, Tenchi; Mimura, Toshisada; Nishikawa, Kihachiro; and Nishizawa, Shoichi, 4,636,969, Cl. 364-560.000.

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Min, Byung-Woo. Burglar alarm built in car stereo. 4,638,293, 1-20-87, Cl. 340-63.000.

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Mina, Cesar: *See*—
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Minagawa, Hidenobu: *See*—
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Minagawa, Kazuji, to Nippondenso Co., Ltd. Throttle valve position-detecting device for a vehicle engine. 4,688,420, 8-25-87, Cl. 73-118.100.

Minagawa, Koji: *See*—
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Minagawa, Yukinori; Tanaka, Minoru; Matsuo, Keiko; and Shimizu, Etsuo, to Mitsubishi Chemical Industries Ltd.; and Kasei Optonix, Ltd. Rare earth phosphor and radiographic image conversion screen. 4,689,277, 8-25-87, Cl. 428-690.000.

Minai, Masayoshi; and Katsura, Tadashi, to Sumitomo Chemical Company, Limited. Production of cyclopentenone derivatives. 4,665,174, 5-12-87, Cl. 544-59.000.

Minai, Masayoshi; and Ueda, Yuji, to Sumitomo Chemical Company, Limited. Method for inversion of optically active 4-hydroxy-2-cyclopentenones. 4,683,323, 7-28-87, Cl. 558-52.000.

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Minakawa, Takao; Shiono, Shigeo; and Nishihashi, Junichi, to Sasaki Glass Co., Ltd. Laser beam glass cutting. 4,682,003, 7-21-87, Cl. 219-121.01.N.

Minakawa, Yoshimitsu: *See*—
Sato, Isao; Ishibashi, Yoji; Tamura, Zensuke; Ohmori, Takashi; Minakawa, Yoshimitsu; Fujimura, Hidekazu; and Uchiyama, Yoshihiro, 4,671,069, Cl. 60-737.000.

Minakuchi, Hiroshi; Kunihira, Tadashi; and Igarashi, Yoshiaki, to Matsushita Electric Industrial Co., Ltd. Servo system. 4,636,696, 1-13-87, Cl. 318-327.000.

Minakuchi, Yusuke, to Sharp Kabushiki Kaisha. Voltage power source circuit with constant voltage output. 4,675,593, 6-23-87, Cl. 323-314.000.

Minami, Akihiko: *See*—
Shinohara, Nobutaka; Hirakawa, Shuji; Minami, Akihiko; and Tanaka, Koichi, 4,646,154, Cl. 358-183.000.

Minami, Akira, to Fujitsu Limited. Focus servomechanism control system of optical disc system having offset setting means. 4,707,648, 11-17-87, Cl. 318-640.000.

Minami, Hideaki, to Tsubakimoto Chain Co. Automatic guided vehicle. 4,679,977, 7-14-87, Cl. 414-533.000.

Minami, Hideaki: *See*—
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Minami, Hideyuki: *See*—
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Minami, Hirokazu; Ishizu, Nobuhiko; and Ota, Matsuo, to Taiyo Kogyo Co., Ltd. Sail device. 4,702,191, 10-27-87, Cl. 114-106.000.

Minami, Hiromichi, to Nihon Medical Engineering Co., Ltd. Blood dialyzing method and apparatus. 4,647,378, 3-3-87, Cl. 210-646.000.

Minami, Hiroo; and Asahi, Sadaho, to Yoshida Kogyo K.K. Pull tab for slide fastener. 4,704,770, 11-10-87, Cl. 24-431.000.

Minami, Katsuhiro; Iwata, Hitoshi; and Kinoshita, Kenichi, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Light control apparatus for automobile. 4,698,552, 10-6-87, Cl. 315-82.000.

Minami, Kazuo; and Awano, Mitsuru, to Tokyo Institute of Technology. Microwave pulse source. 4,642,571, 2-10-87, Cl. 328-59.000.

Minami, Keijiro: *See*—
Ogawa, Motokazu; Nishiguchi, Yasuo; and Minami, Keijiro, 4,708,915, Cl. 428-698.000.

Minami, Keijirou: *See*—
Nishiguchi, Yasuo; Minami, Keijirou; and Hoda, Masakazu, 4,701,769, Cl. 346-76.0PH.
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Minami, Keisuke: *See*—
Ohyatsu, Shin; and Minami, Keisuke, 4,651,757, Cl. 131-96.000.

Minami, Kiyoshi; and Horiyama, Tsuyoshi, to Shimizu Construction Co., Ltd. Methane fermentation process for treating evaporator condensate from pulp making system. 4,666,605, 5-19-87, Cl. 210-603.000.

Minami, Koji; Goto, Kazuyuki; Haku, Hisao; Fukatsu, Takeo; Ohnishi, Michitoshi; and Kuwano, Yukinori, to Sanyo Electric Co., Ltd. Electrophotographic photosensitive member and method for making such a member. 4,670,367, 6-2-87, Cl. 430-57.000.

Minami, Nagio: *See*—
Fukaya, Yasuhiro; and Minami, Nagio, 4,715,524, Cl. 228-165.000.

Minami, Norio; Mathukura, Masayuki; Ueda, Koichiro; Tanaka, Satoru; and Igarashi, Toshiji, to Eisai Co., Ltd. Antiarrhythmic 2,2-dialkyl-1-(aminoalkyl)-spiro[chroman-4,4'-imidazolidine]-2',5'-diones. 4,650,798, 3-17-87, Cl. 514-227.000.

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Minami Seiki Co., Ltd.: *See*—
Hosoya, Tomohisa, 4,688,826, Cl. 283-79.000.

Minami, Shinichi: *See*—
Hagiwara, Takaaki; Itoh, Yokichi; Kondo, Ryuji; Yatsuda, Yuji; and Minami, Shinichi, 4,654,828, Cl. 365-184.000.
Yatsuda, Yuji; Hagiwara, Takaaki; Horiuchi, Masatada; Minami, Shinichi; and Kaga, Toru, 4,668,970, Cl. 357-23.500.

Minami, Shinzaburo: *See*—
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.

Minami, Takao; Nagano, Hiroo; Yamanaka, Kazuo; Okada, Yasutaka; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; and Sasaguri, Nobuya, to Mitsubishi Jukogyo Kabushiki Kaisha; and Sumitomo Metal Industries, Ltd. Nickel-chromium alloy in stress corrosion cracking resistance. 4,715,909, 12-29-87, Cl. 148-410.000.

Minami, Takao: *See*—
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yaautaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.

Minami, Tatsuo: *See*—
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Minami, Teruo: *See*—
Takei, Hidetoshi; and Minami, Teruo, 4,694,125, Cl. 191-87.000.

Minami, Toshiaki: *See*—
Satake, Toshimi; Minami, Toshiaki; Maruyama, Kazuo; and Fujimura, Fumio, 4,644,375, Cl. 346-209.000.

Minami, Toshihiko; Umezawa, Isao; and Shintani, Kenji, to Sony Corporation. Photo sensor device and optical pickup device. 4,669,071, 5-26-87, Cl. 369-44.000.

Minami, Yohichiro: *See*—
Ichikawa, Yoshio; Akahori, Masaaki; Ishii, Daisuke; Tsunoda, Kazuyuki; Minami, Yohichiro; and Nagata, Koichi, 4,639,726, Cl. 340-825.440.

Minamida, Katsuhiro; Takafuji, Hideo; Haga, Hiroya; and Mizuhashi, Nobuo, to Nippon Steel Corporation. High-frequency electric resistance welding method using irradiation with a laser beam. 4,649,256, 3-10-87, Cl. 219-121.0LD.

Minamida, Kazukiyo; and Asai, Yoshiharu, to Kabushiki Kaisha Ishida Koki Seisakusho. Method of weighting and counting. 4,645,019, 2-24-87, Cl. 177-25.000.

Minamide, Noriaki: *See*—
Kumazawa, Kiyotake; Minamide, Noriaki; Moribe, Yoshihiro; Takahashi, Mikio; Beppu, Osamu; and Mitamura, Masahiro, 4,703,242, Cl. 318-685.000.

Minamide, Seiko: *See*—
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Shibaike, Narito; Kikuya, Satoshi; and Minamide, Seiko, 4,648,000, Cl. 360-132.000.

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Minamimura, Eiji: *See*—
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Ogura, Setsuo; Kondo, Shizuo; Minamimura, Eiji; and Furihata, Makoto, 4,659,947, Cl. 307-466.000.

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Minamimihon Rakuno Kyodo Kabushiki Kaisha: *See*—
Yagi, Naoki; Kim, Kwang Y.; and Nakaji, Tarushige, 4,650,856, Cl. 536-363.000.
Yagi, Naoki; Kim, Kwang Y.; and Nakaji, Tarushige, 4,656,041, Cl. 426-276.000.
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Minamisawa, Tsuyoshi: *See*—
Yamawaki, Masami; Chino, Shuichi; Minamisawa, Tsuyoshi; and Nakamura, Masaaki, 4,661,570, Cl. 526-88.000.

Minamitaka, Junichi; and Nogimura, Tsunehisa, to Casio Computer Co., Ltd. Electronic musical instrument with glide function. 4,699,037, 10-13-87, Cl. 84-1.100.

Minamitaka, Junichi, to Casio Computer Co., Ltd. Electronic keyboard musical instrument with portamento or glissando play function. 4,700,605, 10-20-87, Cl. 84-1.240.

Minamitaka, Junichi: *See*—
Okuda, Hiroko; Sakurai, Keiichi; and Minamitaka, Junichi, 4,643,068, Cl. 84-1.030.

Minamitani, Kunitomo; Izuo, Masahiro; Nakao, Yuji; Nishikawa, Toshihide; and Kawaguchi, Hiroyuki, to Mazda Motor Corporation. Air-fuel ratio control system for multicylinder engine. 4,703,735, 11-3-87, Cl. 123-489.000.

Minamitsu, Sadao: *See*—
Matsuoka, Nobuyuki; Takasaki, Yo; Minamitsu, Sadao; and Motoyama, Katsumi, 4,661,743, Cl. 313-495.000.

Minamizaki, Yoshihiro; Miki, Yoshio; Yamamoto, Takayuki; Iio, Akira; and Sakagami, Toshinori, to Nitto Electric Industrial Co., Ltd.; and Japan Synthetic Rubber Co., Ltd. Pressure-sensitive adhesive composition. 4,699,938, 10-13-87, Cl. 524-271.000.

Minamizono, Takahisa: *See*—
Yoshida, Tatsuro; Shimasaki, Hidematsu; Minamizono, Takahisa; and Ochi, Katsura, 4,670,490, Cl. 524-115.000.

Minar, Frank M.; and Wisnieski, Robert L., Jr., to C-Cor Electronics, Inc. Method for attaching a printed circuit board to a connector for testing purposes. 4,698,906, 10-13-87, Cl. 29-842.000.

Minard, Everett S., to Elmar Industries, Inc. Releasable retaining means for filling machine valves. 4,700,756, 10-20-87, Cl. 141-144.000.

Minard, Gary A. Device and method for cleaning fin-type heat exchangers in air ducts. 4,666,531, 5-19-87, Cl. 134-26.000.

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Mattei, Riccardo; and Minarelli, Alessandro, 4,675,069, Cl. 156-510.000.
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Brewer, Arthur D.; and Minatelli, John A., 4,634,707, Cl. 514-270.000.
Brewer, Arthur D.; and Minatelli, John A., 4,636,508, Cl. 514-274.000.

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Nakata, Akira; Matsumoto, Shiroh; Tozima, Hitoshi; and Minato, Masahiko, 4,712,706, Cl. 220-276.000.

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Sasaki, Yukio; Nishimura, Kotaro; and Minato, Osamu, 4,641,285, Cl. 365-210.000.
Shimohigashi, Katsuhiro; Kubo, Masaharu; Miyauchi, Katsuki; Masuhara, Toshiaki; and Minato, Osamu, 4,672,586, Cl. 365-229.000.

Minato Sangyo Co., Ltd.: *See*—
Ikari, Yoshikatsu; Yokoyama, Shoichiro; Ohama, Chiaki; and Fukui, Ryosuke, 4,670,288, Cl. 427-4.000.

Minato, Yukio, to NEC Corporation. Method of fabricating semiconductor devices in dielectrically isolated silicon islands. 4,692,996, 9-15-87, Cl. 437-73.000.

Minbu, Shouhei: *See*—
Ooga, Syougo; and Minbu, Shouhei, 4,667,795, Cl. 192-70.270.

Minch, Morris L.; and Wagner, Theodore W., to Siemens Corporation. Apparatus for transmitting and/or receiving balanced signals on a two-wire telecommunication line. 4,682,356, 7-21-87, Cl. 379-347.000.

Minchak, Robert J.; and Lane, Parley C., Jr., to B.F. Goodrich Company, The. Polycycloolefins resistant to solvents. 4,701,510, 10-20-87, Cl. 526-283.000.

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Petkov, Georgi K.; Kyurkchiev, Bencho P.; Barzakov, Valentin Y.; and Minchev, Stefan P., 4,660,326, Cl. 51-7.000.

Minck, Klaus-Otto: *See*—
Hausberg, Hans-Heinrich; Bottch, Henning; Gottschlich, Rudolf; Seyfried, Christoph; and Minck, Klaus-Otto, 4,698,351, Cl. 514-338.000.
Irmscher, Klaus; Saiko, Otto; Minck, Klaus-Otto; and Wolf, Hans-Peter, 4,654,350, Cl. 514-303.000.
Jonas, Rochus; Kloft, Michael; Wurziger, Hanns; Harting, Juergen; Enenkel, Hans J.; Minck, Klaus-Otto; and Schliep, Hans-Jochen, 4,654,344, Cl. 514-248.000.

Minckler, L. Sherwood: *See*—
Lundberg, Robert D.; Phillips, Robert R.; Minckler, L. Sherwood; and Chung, David Y., 4,692,268, Cl. 252-33.400.

Mincsovics, Emil: *See*—
Szekely, Tibor; Tyihak, Erno; Mincsovics, Emil; Remenyi nee Korodi, Zsuzsa; Peterfi, Laszlo; Kemeny, Gabor; and Takacs, Gabor, 4,671,871, Cl. 210-198.300.
Tompa, Ildiko F.; Nagy, Attila; Tyihak, Erno; Nyiredy, Szabolcs; Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida, Laszlo; Mincsovics, Emil; Kemeny, Gabor; and Baranyi, Piroska, 4,671,870, Cl. 210-149.000.
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Minday, Richard M.: *See*—
Olson, Paul B.; Minday, Richard M.; and Cooley, Julian B., 4,663,024, Cl. 208-120.000.

Mindell, Marvin L., to D. O. Industries, Inc. Transparency transport system for overhead projector. 4,707,092, 11-17-87, Cl. 353-109.000.

Minden, Andrew C.: *See*—
Kendall, Robert M.; Schreiber, Richard J.; Minden, Andrew C.; and Wong, Thomas, 4,664,620, Cl. 431-328.000.

Minden, Percy: *See*—
Shinnick, Thomas M.; Minden, Percy; and Houghten, Richard A., 4,689,397, Cl. 530-327.000.

Mindick, Morris: *See—*
Hunt, Barry E.; Herro, Harvey M.; Lee, Kyu-Hwa; and Mindick, Morris, 4,683,035, Cl. 204-1.00T.
Mine Kinzoku Kogyo K.K.: *See—*
Ikeda, Sakio; and Yonamine, Shozen, 4,691,717, Cl. 131-365.000.
Mine Kinzoku Kogyo Kabushiki Kaisha: *See—*
Ikeda, Sakio, 4,638,819, Cl. 131-331.000.
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Mine, Kiyomitsu: *See—*
Arai, Kazuo; Nishi, Shinichi; Satoh, Taxey; Kawaguchi, Yasushi; and Mine, Kiyomitsu, 4,672,395, Cl. 346-135.100.
Mine Safety Appliances Company: *See—*
Auel, RaeAnn M.; Jolson, Joseph D.; and Stewart, David A., 4,692,220, Cl. 204-1.00T.
Hiltz, Ralph H.; Greer, John S.; and Friel, Joseph V., 4,713,182, Cl. 252-3.000.
Lambert, William M., 4,714,077, Cl. 128-202.270.
Milius, John W.; and Alderson, Jill D., 4,684,550, Cl. 427-437.000.
Schneider, Alan A.; Stewart, David A.; Jolson, Joseph D.; Auel, RaeAnn M.; and Price, John F., 4,707,242, Cl. 204-412.000.
Winchester, Clinton S.; and Williams, Mark T., 4,675,256, Cl. 429-112.000.
Winchester, Clinton S., 4,675,257, Cl. 429-112.000.
Wise, Layton A., 4,648,394, Cl. 128-201.240.
Mine, Susumu; and Ishizaka, Takao, to Tokyo Shibaura Denki Kabushiki Kaisha. Superconducting magnet and method of manufacture thereof. 4,640,005, 2-3-87, Cl. 29-599.000.
Mine, Taiichi; Sakabe, Busaburo; and Sato, Kiyomi, to Japan Tobacco & Salt Public Corporation, The. Method and apparatus for threshing ribs from tobacco leaves and the like. 4,649,940, 3-17-87, Cl. 130-30.00R.
Mine, Toshisuke: *See—*
Kurosawa, Toshiaki; Shima, Seiya; Ando, Takeki; Inaba, Hiromi; Nakashima, Hajime; and Mine, Toshisuke, 4,636,932, Cl. 363-54.000.
Mine, Yasuhiro; and Yokota, Yoshiko, to Fujisawa Pharmaceutical Co., Ltd. Method for combatting viral infections. 4,666,889, 5-19-87, Cl. 514-18.000.
Mine, Yasuhiro: *See—*
Umio, Suminori; Kamimura, Toshiaki; Kamishita, Takuzo; and Mine, Yasuhiro, 4,636,520, Cl. 514-399.000.
Minear, John W.; and McNiece, Raymond J., to Delaware Halliburton Company. Tubing conveyed perforating assembly safety device. 4,673,033, 6-16-87, Cl. 166-55.100.
Minear, John W.: *See—*
Mallett, A. J.; and Minear, John W., 4,700,803, Cl. 181-106.000.
Minear, Ronald J.: *See—*
Terbrack, William H.; Brion, Harvey F.; and Minear, Ronald J., 4,649,570, Cl. 455-344.000.
Minteck, Fred, to Lindsley, Warren F. B., a part interest. Detachably mounted add on sun visor for vehicles. 4,635,995, 1-13-87, Cl. 296-97.00G.
Minegishi, Hitoshi: *See—*
Yamada, Noboru; and Minegishi, Hitoshi, 4,662,717, Cl. 350-245.000.
Minegishi, Kazushige: *See—*
Miura, Kenji; Nakajima, Shigeru; Minegishi, Kazushige; Morie, Takashi; and Somatani, Toshifumi, 4,672,410, Cl. 357-23.600.
Morie, Takashi; Minegishi, Kazushige; and Nakajima, Shigeru, 4,645,564, Cl. 156-643.000.
Nakajima, Shigeru; Minegishi, Kazushige; Miura, Kenji; Morie, Takashi; and Somatani, Toshifumi, 4,683,643, Cl. 437-203.000.
Minegishi, Koichi: *See—*
Abe, Genji; and Minegishi, Koichi, 4,666,123, Cl. 249-86.000.
Minekane, Tomiharu; and Matsumoto, Kouji, to Tokyo Shibaura Denki Kabushiki Kaisha. Automatic chemical analyzer. 4,664,885, 5-12-87, Cl. 422-65.000.
Minekane, Tomiharu, to Tokyo Shibaura Denki Kabushiki Kaisha. Apparatus for absorptiometric analysis. 4,685,801, 8-11-87, Cl. 356-328.000.
Minelco, Inc.: *See—*
Hart, Robert D., 4,652,868, Cl. 340-691.000.
Hart, Robert D.; and Ambrozaitis, John J., 4,694,599, Cl. 40-449.000.
Mazzamauro, Robert; and Ambrozaitis, John, 4,661,813, Cl. 340-815.260.
Minella, Giancarlo: *See—*
Alberti, Adriano; and Minella, Giancarlo, 4,655,151, Cl. 112-168.000.
Minematsu, Yoshihiko; Tanaka, Minoru; Yamamoto, Masayuki; and Sakamoto, Kenichiro, to Mitsubishi Denki Kabushiki Kaisha. Wrist device of industrial robot. 4,684,313, 8-4-87, Cl. 414-735.000.
Minemoto, Isamu: *See—*
Furusawa, Choji; Goto, Shigeki; Maruchi, Satoshi; and Minemoto, Isamu, 4,669,435, Cl. 123-323.000.
Sakai, Takahiro; and Minemoto, Isamu, 4,688,451, Cl. 74-867.000.
Minemura, Kouichi; Shikada, Minoru; and Emura, Katsumi, to NEC Corporation. Optical heterodyne detection pulse receiving system and method. 4,706,300, 11-10-87, Cl. 455-619.000.
Minemura, Tetsuro: *See—*
Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisashi; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kiyoshi; and Kaneko, Toshiki, 4,651,172, Cl. 346-135.100.
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Mineo, Kinji: *See—*
Mineo, Masanari; and Mineo, Kinji, 4,677,730, Cl. 29-512.000.
Mineo, Masanari; and Mineo, Kinji, to Yamato Iron Works Co., Ltd. Method of attaching press-in flange to drum or like container. 4,677,730, 7-7-87, Cl. 29-512.000.
Miner, Douglas H.: *See—*
Effler, Kenneth T.; and Miner, Douglas H., 4,667,425, Cl. 36-126.000.
Miner Enterprises, Inc.: *See—*
Carlson, Robert L., 4,712,487, Cl. 105-199.300.
Toms, Robert S., Jr., 4,666,215, Cl. 301-5.700.
Mineral Preparation, Inc.: *See—*
Cox, Bernie F., 4,708,789, Cl. 209-457.000.
Mines, Isaiah H., Jr.; and Spector, George. Gravity feeding pill medicine dispenser. 4,638,923, 1-27-87, Cl. 221-132.000.
Mines and Resources Canada: *See—*
Poirier, Marc-Andre, 4,683,005, Cl. 106-273.00R.
Mineshima, Hideo; Koda, Haruyuki; and Yamamoto, Ryoichi, to Mitsui Petrochemical Industries, Ltd. Process for continuous multi-stage polymerization of olefins. 4,692,501, 9-8-87, Cl. 526-65.000.
Minet, Ronald G.; and Warren, David, to Kinetics Technology International Corporation. Catalytic reaction apparatus. 4,692,306, 9-8-87, Cl. 422-49.000.
Mineura, Kazuyuki: *See—*
Tomohiro, Susumu; Arai, Yuko; and Mineura, Kazuyuki, 4,673,645, Cl. 435-119.000.
Minezaki, Shigehiro: *See—*
Takamatsu, Toshiaki; Kuwagaki, Hiroshi; Minezaki, Shigehiro; Yamamoto, Kunihiko; Nakatani, Hiroshi; and Kawaguchi, Hisao, 4,690,510, Cl. 350-334.000.
Minezaki, Yutaka: *See—*
Hayashi, Yoshimasa; Minezaki, Yutaka; Ito, Yoji; Inoue, Naoyuki; and Hirano, Yoshinori, 4,700,664, Cl. 123-41.270.
Shimonosono, Hitoshi; Ogawa, Naoki; Fujigaya, Kazuyuki; and Minezaki, Yutaka, 4,669,427, Cl. 123-41.270.
Ming, Wong K., to Dart Industries Inc. Foldable household appliance. 4,645,905, 2-24-87, Cl. 219-297.000.
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Mini, Renzo: *See—*
Braidotti, Archimede; Mini, Renzo; and Roseano, Giancarlo, 4,660,712, Cl. 198-434.000.
Minialoff, Andrew J.: *See—*
Minialoff, Gerrard O.; Minialoff, Martin J.; and Minialoff, Andrew J., 4,637,190, Cl. 52-579.000.
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Minialoff, Martin J.: *See—*
Minialoff, Gerrard O.; Minialoff, Martin J.; and Minialoff, Andrew J., 4,637,190, Cl. 52-579.000.
Minialoff, Gerrard O.; and Minialoff, Martin J., 4,713,921, Cl. 52-579.000.
Miniature Electronics, Inc.: *See—*
Banasiak, Joseph; and Powers, Samuel L., 4,702,479, Cl. 273-148.00R.
Miniet, Jay J., to Motorola, Inc. Flexible printed circuit board having integrated circuit die or the like affixed thereto. 4,677,528, 6-30-87, Cl. 361-398.000.
Minigrip, Inc.: *See—*
Ausnit, Steven, 4,637,060, Cl. 383-37.000.
Ausnit, Steven; and Van Erden, Donald L., 4,651,394, Cl. 29-33.00K.
Ausnit, Steven, 4,657,792, Cl. 428-35.000.
Ausnit, Steven, 4,660,259, Cl. 24-587.000.
Ausnit, Steven; and Bentsen, Per, 4,682,366, Cl. 383-65.000.
Ausnit, Steven, 4,691,373, Cl. 383-63.000.
Ausnit, Steven; and Bentsen, Per, 4,694,959, Cl. 206-390.000.
Ausnit, Steven; and Van Erden, Donald L., 4,698,274, Cl. 428-36.000.
Ausnit, Steven, 4,703,518, Cl. 383-63.000.
Ausnit, Steven, 4,706,297, Cl. 383-63.000.
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Ausnit, Steven, 4,709,533, Cl. 53-451.000.
Bentsen, Per, 4,635,294, Cl. 383-37.000.
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Bentsen, Per, 4,673,383, Cl. 493-381.000.
Boeckmann, Hugo; and Van Erden, Donald L., 4,704,842, Cl. 53-450.000.
Boeckmann, Hugo, 4,712,684, Cl. 206-554.000.
Christoff, Paul B.; and Ausnit, Steven, 4,655,862, Cl. 156-66.000.
Hugues, Gilbert P. J. M.; and Ausnit, Steven, 4,672,723, Cl. 24-587.000.
Lems, Peter; Ausnit, Steven; and Nocek, Robert S., 4,665,552, Cl. 383-37.000.
Takahashi, Katsuhito, 4,698,118, Cl. 156-499.000.
Van Erden, Donald L., 4,691,372, Cl. 383-63.000.
Van Erden, Donald L., 4,701,361, Cl. 428-36.000.

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Lord, Ronald D., 4,656,761, Cl. 36-77.00R.
Mining Tools, Inc. Div. of Smith California: *See—*
Shaw, Ray H., 4,712,626, Cl. 175-410.000.
Minion, Aaron A.; and Remus, David R., to Minnesota Mining and Manufacturing Company. Shipping package for recording tape pancakes. 4,708,246, 11-24-87, Cl. 206-394.000.
Minior, Thaddeus: *See—*
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Minisci, Francesco: *See—*
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MiniScribe Corporation: *See—*
Sander, Charles M., Jr., 4,658,308, Cl. 360-74.100.
Minister for Industry and Decentralisation of the State of New South Wales, The: *See—*
Krilov, Alexandre, 4,640,327, Cl. 144-340.000.
Krilov, Alexandre, 4,688,458, Cl. 83-661.000.
Minister of National Defence of Her Majesty's Canadian Government: *See—*
Berube, Gilles; and Langlois, Raymond, 4,633,782, Cl. 102-518.000.
Carrier, Christian J. L.; and Shea, Charles J., 4,635,527, Cl. 89-1.816.
Ministerio de Sanidad y Asistencia Social Institute Venezolano de Investigationes Cientificas: *See—*
O'Daly, Jose A., 4,687,666, Cl. 424-88.000.
Ministry of Agriculture & Fisheries: *See—*
Stevenson, Barry E., 4,707,931, Cl. 34-10.000.
Ministry of Agriculture, Foresty and Fisheries: *See—*
Noguchi, Akinori, 4,642,241, Cl. 426-634.000.
Ministry of Industry & Minerals Specialized Institute for Engineering Industries: *See—*
Ahmed, Jaleel K., 4,692,353, Cl. 427-216.000.
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Fukuda, Tsuguo; and Terashima, Kazutaka, 4,637,854, Cl. 156-607.000.
Haruta, Masatake; Sano, Hiroshi; and Kobayashi, Tetsuhiko, 4,698,324, Cl. 502-243.000.
Ichikawa, Kiyoshi, 4,636,355, Cl. 420-590.000.
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Katoh, Takashi; and Tanimura, Yoshihisa, 4,650,298, Cl. 350-602.000.
Kikuchi, Kaoru; and Shikata, Nobuo, 4,711,707, Cl. 204-145.00R.
Miyasaka, Kaneyoshi; Sawai, Nobushige; and Murata, Ryoji, 4,700,224, Cl. 358-101.000.
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Ooka, Akihiro; Okamoto, Kenji; and Yamada, Koji, 4,680,818, Cl. 5-81.00R.
Owada, Toshiro; Kosugi, Kenichi; and Nagase, Yasuo, 4,691,909, Cl. 270-58.000.
Sakuragi, Masako; and Ichimura, Kunihiro, 4,678,844, Cl. 525-417.000.
Sato, Masaaki; Tanaka, Susumu; Kaeriyama, Kyoji; and Suda, Yoshio, 4,691,005, Cl. 528-380.000.
Sekiya, Tadashi; Tsuzuki, Akihiro; and Torii, Yasuyoshi, 4,678,732, Cl. 430-136.000.
Shimizu, Toshimi; and Tanaka, Yoshio, 4,668,397, Cl. 210-634.000.
Takasaki, Yoshiyuki, 4,657,865, Cl. 435-202.000.
Takayanagi, Takeshi, 4,664,172, Cl. 164-34.000.
Tao, Hiroaki, 4,698,314, Cl. 436-171.000.
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Yamakita, Hiromi; Hayakawa, Kiyoshi; Tazawa, Masato; and Taoda, Hiroshi, 4,647,348, Cl. 204-59.00R.
Yasue, Kazuo; Nishio, Toshiyuki; and Kosaka, Mineo, 4,671,906, Cl. 264-9.000.
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Bjornberg, Sten G., 4,652,145, Cl. 374-194.000.
Minjolle, Louis; Drouet, Claudette; Hordonneau, Alain; and Capdepuy, Bernard. Method of manufacturing a composite reinforced structure of ceramics material. 4,696,710, 9-29-87, Cl. 156-89.000.
Mink, George. Loading and unloading mechanism. 4,678,393, 7-7-87, Cl. 414-751.000.
Mink, Wilfried: *See—*
Wessolowski, Bernd; and Mink, Wilfried, 4,677,860, Cl. 73-862.480.
Minker, Manfred; and Rohling, Hermann, to Licentia Patent-Verwaltungs-GmbH. Method of and a device for recognizing targets and suppressing spurious signals in radar equipment. 4,649,394, 3-10-87, Cl. 342-94.000.
Minkler, Jackson D., II, to Computer Poet Corporation. Method and apparatus for generating text. 4,712,174, 12-8-87, Cl. 364-200.000.
Minkoff, Jeffrey: *See—*
Meyers, Andrew; Minkoff, Jeffrey; and Langevin, David, 4,654,893, Cl. 2-2.000.
Minkoff, Lawrence A.; and Danby, Gordon T., to Fonar Corporation. Nuclear magnetic resonance apparatus using low energy magnetic elements. 4,707,663, 11-17-87, Cl. 324-319.000.
Minkoff, Lawrence A.: *See—*
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Minkow, Julius M.: *See—*
Minkow, Roger E.; and Minkow, Julius M., 4,711,448, Cl. 272-118.000.
Minkow, Roger E. Weight lifting type exercising device. 4,635,926, 1-13-87, Cl. 272-118.000.
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Minks, Floyd M. Selective speed limiting apparatus for internal combustion engine. 4,664,080, 5-12-87, Cl. 123-335.000.
Minks, Floyd M. Regulated power supply for a solid state ignition system. 4,705,013, 11-10-87, Cl. 123-598.000.
Minks, Werner; and Nitschke, Bernard F., to International Standard Electric Corporation. Method of sealing a relay. 4,675,987, 6-30-87, Cl. 29-602.100.
Minneapolis Medical Research Foundation, Inc.: *See—*
Ruiz, Ernest; and Wenman, Michael S., 4,650,464, Cl. 604-49.000.
Minnema, Lourens; and van der Zande, Johan M., to U.S. Philips Corporation. Photosensitive polyamic acid derivative, compounds used in the manufacture of the derivative, method of manufacturing polyimide pattern on a substrate, and semiconductor device comprising a polyimide pattern obtained by using the said method. 4,661,435, 4-28-87, Cl. 430-311.000.
Minneman, William J. Gold equipment carrier. 4,666,038, 5-19-87, Cl. 206-315.200.
Minnes, Valery: *See—*
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Minnesota Automation: *See—*
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Abrahamson, Gerald R.; and Duwell, Ernest J., 4,705,124, Cl. 175-410.000.
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Alderman, Arnold J., 4,660,968, Cl. 355-68.000.
Archibald, G. Kent; and Slaker, Frank A., 4,637,817, Cl. 604-81.000.
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Archibald, G. Kent, 4,673,390, Cl. 604-81.000.
Archibald, G. Kent, 4,705,506, Cl. 604-81.000.
Archibald, G. Kent; and Slaker, Frank A., 4,714,463, Cl. 604-81.000.
Bailey, Terry R., 4,648,932, Cl. 156-276.000.
Bailey, Terry R.; Kult, Roger R.; and Belisle, Louis C., 4,663,213, Cl. 428-204.000.
Bailey, Terry R.; and Haunschild, Dale H., 4,664,966, Cl. 428-203.000.
Baker, Dennis L., 4,658,264, Cl. 343-895.000.
Balestra, Luciano, 4,705,738, Cl. 430-264.000.
Bany, Stephen W.; and Wood, Leigh E., 4,677,137, Cl. 522-31.000.
Baratto, Eugene L.; David, Donald J.; Truskolaski, Bernard S.; and Wu, Maan-Shi S., 4,704,163, Cl. 106-20.000.
Barber, Elaine C., 4,668,558, Cl. 428-156.000.
Barrows, Thomas H., 4,669,474, Cl. 128-334.00C.
Barton, James J., 4,667,447, Cl. 51-362.000.
Bellus, Peter A.; and Frenchik, Robert A., 4,670,374, Cl. 430-505.000.
Benson, Gerald M., 4,703,999, Cl. 350-103.000.
Bergeson, David L.; Pavelka, Lee A.; and Mielke, Barbara A., 4,637,950, Cl. 428-168.000.
Bernard, Emile C., 4,700,528, Cl. 53-398.000.
Billigmeier, James E.; Groves, James D.; Haugen, Harwick A.; and Pokorny, Richard J., 4,639,483, Cl. 524-296.000.
Bloecher, Ulrich; and Duwell, Ernest J., 4,652,275, Cl. 51-298.000.
Boettcher, Thomas E.; and Thalacker, Victor P., 4,652,274, Cl. 51-298.000.
Bolson, John H., Sr., 4,712,094, Cl. 340-572.000.
Bradshaw, Thomas I.; Orensteen, Bruce D.; and Cook, Jack E., 4,714,656, Cl. 428-411.100.
Brown-Wensley, Katherine A.; and Sinclair, Robert A., 4,704,444, Cl. 528-25.000.
Bryan, Thomas T.; and Anderson, Harvey L., 4,657,959, Cl. 524-266.000.
Buckanin, Richard S., 4,705,840, Cl. 528-53.000.
Buckingham, John S., 4,706,161, Cl. 361-220.000.
Bunker, James E., 4,669,983, Cl. 433-217.100.
Bunker, James E., 4,670,576, Cl. 558-182.000.
Burguette, Mario D.; and Foss, George D., 4,671,999, Cl. 428-422.000.
Burguette, Mario D.; and Foss, George D., 4,705,699, Cl. 427-54.100.
Burvee, Richard W., 4,698,724, Cl. 361-220.000.
Cadwell, Donald E.; and Brey, Larry A., 4,687,729, Cl. 430-271.000.
Campbell, Wayne A., 4,665,920, Cl. 128-422.000.
Cavanagh, Michael J., 4,642,157, Cl. 156-468.000.
Cederberg, Barbara M.; and Musser, Arlene K., 4,656,114, Cl. 430-160.000.
Chang, John C., 4,668,406, Cl. 252-8.750.
Charbonneau, Jack W., 4,661,388, Cl. 428-43.000.
Charbonneau, Robert P.; Heilmann, Steven M.; Rasmussen, Jerald K.; and Tumey, Michael L., 4,699,843, Cl. 428-355.000.
Craighead, Lawrence W., 4,640,289, Cl. 128-639.000.
Culler, Scott R., 4,673,354, Cl. 433-217.100.
Dalzell, Rex J., 4,654,081, Cl. 106-23.000.
Delfino, Gerolamo; Franco, Simone; and Verdi, Cesare, 4,695,531, Cl. 430-513.000.

Delprato, Ivano; and Squarcia, Francesco, 4,668,610, Cl. 430-385.000.
Delprato, Ivano, 4,672,013, Cl. 430-17.000.
DeSatnick, Allen H.; and Marcus, Herbert D., 4,650,462, Cl. 604-30.000.
DeSatnick, Allen H., 4,674,500, Cl. 128-305.000.
DeVore, Dale P.; Scherrer, Robert A.; and Scholz, Matthew T., 4,713,446, Cl. 530-356.000.
Dieken, Alan P.; and Dufresne, Joel R., 4,706,674, Cl. 128-419.00R.
Doree, Richard H.; and Ugro, Josef V., Jr., 4,654,256, Cl. 428-304.400.
Douden, David K., 4,657,810, Cl. 428-313.900.
Drake, James F., 4,686,182, Cl. 435-24.000.
Drake, James F., Jr., 4,664,664, Cl. 604-891.000.
Dreyer, John F., Jr., 4,634,246, Cl. 353-98.000.
Dufresne, Joel R.; and Dieken, Alan P., 4,686,991, Cl. 128-421.000.
Dufresne, Joel R.; ReMine, Walter J.; and King-Smith, Eric A., 4,688,574, Cl. 128-421.000.
Dufresne, Joel R.; and Dieken, Alan P., 4,699,143, Cl. 128-419.00R.
Dunshee, Wayne K., 4,685,578, Cl. 215-230.000.
Dziki, Michael M., 4,658,991, Cl. 222-146.500.
Dziki, Michael M., 4,664,296, Cl. 222-146.500.
Eian, Gilbert; and Cheney, Paul G., 4,681,801, Cl. 428-283.000.
Ellis, Arthur B.; and Carpenter, Michael K., 4,645,932, Cl. 250-361.00R.
Ellis, Arthur B.; and van Ryswyk, Hal, 4,710,476, Cl. 436-172.000.
Elmasry, Mohamed A., 4,666,819, Cl. 430-270.000.
Elmasry, Mohamed A., 4,680,375, Cl. 528-253.000.
Emmel, John J., 4,650,706, Cl. 428-40.000.
Emslander, Jeffrey O.; and Larson, Curtis L., 4,664,263, Cl. 206-630.000.
Emslander, Jeffrey O.; and Larson, Curtis L., 4,708,249, Cl. 206-630.000.
Engler, David A.; and Maistrovich, Anthony R., 4,695,608, Cl. 525-308.000.
Ersfeld, Dean A.; Sandvig, Timothy C.; and Gobran, Diane S., 4,683,877, Cl. 128-90.000.
Espy, James R., 4,671,409, Cl. 206-397.000.
Evans, Bruce M., 4,711,566, Cl. 355-41.000.
Fisch, Richard S., 4,657,840, Cl. 430-201.000.
Fisch, Richard S., 4,705,739, Cl. 430-276.000.
Fong, James J., 4,681,790, Cl. 428-96.000.
Gardner, Richard N., 4,684,454, Cl. 204-192.200.
Gebeke, Charles D.; and Weavers, Mark W., 4,642,722, Cl. 360-132.000.
Geisler, Thomas C., 4,683,191, Cl. 430-291.000.
Geisler, Thomas C., 4,708,928, Cl. 430-619.000.
Gerber, Joel A.; and Sievers, Jerry A., 4,700,253, Cl. 360-122.000.
Gibb, James L.; Laird, James A.; Lee, George W.; and Whitcomb, William C., 4,680,230, Cl. 428-403.000.
Goar, Richard T.; and Tholen, John H., 4,643,093, Cl. 101-401.100.
Gobran, Ramsis, 4,652,491, Cl. 428-355.000.
Grant, Richard J.; Johnson, Gilbert C.; and Landin, Heather V., 4,654,233, Cl. 427-379.000.
Grouad, Damon R., 4,706,914, Cl. 248-74.300.
Grzeskowiak, Nicholas E.; and Philip, James B., Jr., 4,711,838, Cl. 430-568.000.
Hallock, William A., 4,699,821, Cl. 428-192.000.
Hammar, W. James, 4,638,040, Cl. 526-245.000.
Hammar, W. James; and Ofstead, Ronald F., 4,673,539, Cl. 264-1.100.
Han, Hak-Rhim, 4,652,473, Cl. 428-35.000.
Hansen, Paul E.; and Marquardt, Susan K., 4,640,859, Cl. 428-105.000.
Hanson, Gary R.; and Rabuse, George R., 4,673,324, Cl. 412-6.000.
Hanson, Gary R., 4,697,970, Cl. 412-4.000.
Hanson, Gary R., 4,702,659, Cl. 412-4.000.
Harelstad, Roberta E.; and Stevens, John, 4,714,838, Cl. 307-427.000.
Hegel, Ramon F., 4,650,845, Cl. 526-261.000.
Hegel, Ramon F., 4,663,184, Cl. 427-44.000.
Helland, Randall H.; and Burton, Craig A., 4,681,830, Cl. 430-110.000.
Heltemes, Eugene C., 4,689,590, Cl. 335-284.000.
Hickenbotham, Brice G.; and Hanson, Gary R., 4,704,317, Cl. 428-156.000.
Hockert, Eric N.; Orensteen, Bruce D.; Bradshaw, Thomas I.; and Borgeson, Frank A., 4,634,220, Cl. 350-167.000.
Hockert, Eric N., 4,688,894, Cl. 350-105.000.
Hoekman, Earl B., 4,697,170, Cl. 340-551.000.
Hogenson, Raymond A., 4,643,783, Cl. 156-64.000.
Howells, Richard D., 4,668,726, Cl. 524-225.000.
Hoyne, Earl K.; Nordeen, Charles K.; and Young, James D., 4,646,112, Cl. 346-153.100.
Huffman, William A., 4,702,561, Cl. 350-349.000.
Ignasiak, Martin C., 4,671,590, Cl. 439-266.000.
Ignasiak, Martin C.; Tengler, John N.; and Hartman, John E., 4,671,592, Cl. 439-331.000.
Insley, Thomas I., 4,650,479, Cl. 604-358.000.
Isakson, Gary A.; and Larson, Curtis L., 4,640,838, Cl. 426-107.000.
Janssen, Jeffrey R., 4,640,727, Cl. 156-240.000.
John, Gunther, 4,680,427, Cl. 174-88.00R.
Jorgensen, Jens L.; Haskett, Thomas E.; and Rueb, John T., 4,699,842, Cl. 428-343.000.
Katritzky, Alan R.; Heilmann, Steven M.; Krepski, Larry R.; Rasmussen, Jerald K.; and Tarr, Richard D., 4,659,801, Cl. 528-226.000.
Kilbane, George J.; and Subrahmanian, K. P., 4,640,978, Cl. 174-23.00R.
King-Smith, Eric A.; ReMine, Walter J.; and Dufresne, Joel R., 4,690,145, Cl. 128-421.000.
Kistner, John F., 4,668,601, Cl. 430-162.000.
Kitchin, Jonathan P.; Powers, Stephen R.; Penfound, Keith A.; Finn, Peter J.; and Fisher, Michael G., 4,705,745, Cl. 430-505.000.
Klingen, Jurgen; and Zimmerman, Patrick G., 4,710,536, Cl. 524-493.000.
Knowd, Michael J., 4,706,282, Cl. 380-3.000.
Knowd, Michael J., 4,706,293, Cl. 381-31.000.
Koelsch, Peter M.; and Vikesland, John P., 4,672,020, Cl. 430-166.000.
Kraemer, John C.; and Iverson, Paul R., 4,686,596, Cl. 360-126.000.
Krampe, Stephen E.; Moore, Cheryl L.; and Taylor, Charles W., 4,693,776, Cl. 156-327.000.
Krause, Larry J.; and Rider, Jack A., 4,710,403, Cl. 427-304.000.
Krepski, Larry R.; Smith, Howell K., II; Rasmussen, Jerald K.; and Heilmann, Steven M., 4,694,103, Cl. 562-450.000.
Krum, James L., 4,666,780, Cl. 428-418.000.
Kuo, Richard J.; Mackay, John W.; and Van Buren, Rick L., 4,693,930, Cl. 428-323.000.
Kupper, Anton, 4,668,851, Cl. 219-10.770.
LaBelle, Gary E.; and Ask, David T., 4,639,412, Cl. 430-523.000.
LaBrosse, Paul R.; and Pohl, Daniel P., 4,684,552, Cl. 428-4.000.
Larimore, Franklin C.; and Sinclair, Robert A., 4,656,077, Cl. 428-156.000.
Larson, Wayne K.; and Hedrick, Steven L., 4,638,017, Cl. 521-157.000.
Leir, Charles M.; and Stark, John E., 4,677,182, Cl. 528-109.000.
Lindsay, Erin J.; and Pittman, John N., 4,701,160, Cl. 604-53.000.
Lunde, George G.; Hoyne, Earl K.; and Nordeen, Charles K., 4,649,402, Cl. 346-153.100.
Lux, Ronald E.; and Miller, Eugene J., 4,669,163, Cl. 29-125.000.
Lyons, Thomas D.; and Jamieson, Peter B., 4,707,435, Cl. 430-494.000.
Marchesano, Carlo, 4,693,956, Cl. 430-264.000.
Martin, Thomas W., 4,636,171, Cl. 433-134.000.
Matkan, Josef; and Treleaven, Richard J., 4,636,451, Cl. 430-109.000.
Matkan, Josef; and Treleaven, Richard J., 4,681,806, Cl. 428-402.210.
May, David C., 4,648,689, Cl. 350-105.000.
Mazurek, Mieczyslaw H., 4,693,935, Cl. 428-352.000.
Mencke, Arlene J., 4,678,698, Cl. 428-171.000.
Mertens, Timothy A., 4,653,666, Cl. 221-45.000.
Miller, Alan G., 4,647,525, Cl. 430-341.000.
Minion, Aaron A.; and Remus, David R., 4,708,246, Cl. 206-394.000.
Mitra, Sumita B., 4,648,843, Cl. 433-201.100.
Mitra, Sumita B.; and Mitra, Smarajit, 4,691,059, Cl. 568-333.000.
Mlinar, Jerry W.; and Neumayer, John, 4,654,309, Cl. 436-61.000.
Mongeon, Douglas R., 4,648,541, Cl. 227-19.000.
Montalbano, Peter, 4,692,122, Cl. 439-882.000.
Montean, Samuel, 4,710,754, Cl. 340-572.000.
Morgan, Thomas E., 4,639,058, Cl. 339-17.0CF.
Moris, Alfred H., 4,695,003, Cl. 242-55.19A.
Nelson, David L.; Truskolaski, Bernard S.; and Hansen, Paul E., 4,634,612, Cl. 428-4.000.
Nelson, Norman E., 4,678,080, Cl. 206-387.000.
Newman, Stephen, 4,708,925, Cl. 430-270.000.
Niles, Gerald J., 4,648,514, Cl. 211-41.000.
Northrup, Walter E.; and Freeman, Maurice E., 4,710,414, Cl. 428-43.000.
Notley, Norman T., 4,705,736, Cl. 430-138.000.
Nourse, Gary E.; Fergen, James E.; and Zarembo, Peter J., 4,667,185, Cl. 340-572.000.
Ofstead, Ronald F., 4,693,939, Cl. 428-421.000.
Ofstead, Ronald F., 4,694,037, Cl. 524-557.000.
Olson, Paul B.; Minday, Richard M.; and Cooley, Julian B., 4,663,024, Cl. 208-120.000.
Orensteen, Bruce D.; and Bradshaw, Thomas I., 4,645,301, Cl. 350-167.000.
Orensteen, Bruce D.; and Bradshaw, Thomas I., 4,650,283, Cl. 350-105.000.
Orensteen, Bruce D.; and Bradshaw, Thomas I., 4,708,920, Cl. 430-11.000.
Ou-Yang, David T., 4,666,052, Cl. 215-230.000.
Ou-Yang, David T., 4,684,554, Cl. 428-35.000.
Paciorek, Walter J., 4,650,082, Cl. 215-230.000.
Pastor, Sheldon L.; and Louks, John W., 4,670,072, Cl. 156-73.100.
Patel, Ranjan C.; Ferguson, Ian J.; and Pennicott, Herbert J., 4,701,402, Cl. 430-332.000.
Perecman, Jack L., 4,650,537, Cl. 156-518.000.
Pluim, Arthur W., Jr., 4,704,079, Cl. 425-190.000.
Pool, Daniel L., 4,667,891, Cl. 242-75.400.
Pool, Daniel L., 4,695,006, Cl. 242-56.300.
Porter, Gerald R.; Bradshaw, Thomas I.; and Hockert, Eric N., 4,691,993, Cl. 350-105.000.
Pretchel, David A., 4,679,870, Cl. 439-493.000.
Prouza, Harry A.; and Voss, Herman G., 4,703,902, Cl. 242-84.51R.
Quan, Nancy N., 4,643,960, Cl. 430-106.600.
Rambosek, George M., 4,707,399, Cl. 428-225.000.

Randklev, Ronald M., 4,695,251, Cl. 433-8.000.
Rasmussen, Jerald K.; Heilmann, Steven M.; and Palensky, Frederick J., 4,639,286, Cl. 156-307.300.
Rasmussen, Jerald K.; Katritzky, Alan R.; Krepski, Larry R.; Smith, Howell K., II; Heilmann, Steven M.; and Sakizadeh, Kumars, 4,667,012, Cl. 528-332.000.
Rasmussen, Jerald K., 4,696,965, Cl. 524-380.000.
Rich, Larry D., 4,714,644, Cl. 428-136.000.
Robbins, David L., 4,633,971, Cl. 181-131.000.
Robins, Janis; and Wright, Charles D., 4,668,736, Cl. 525-65.000.
Robins, Janis; and Wright, Charles D., 4,704,331, Cl. 428-414.000.
Roche, John L.; and Tiers, George V. D., 4,645,714, Cl. 428-458.000.
Ronning, Patricia M.; and Vandesteeg, Gregg A., 4,683,132, Cl. 424-409.000.
Sabongi, Gebran J., 4,699,868, Cl. 430-264.000.
Sachi, Leonard W., 4,666,817, Cl. 430-160.000.
Samuelson, Bruce E., 4,667,828, Cl. 206-555.000.
Sanders, James F., 4,710,445, Cl. 430-252.000.
Sauk, John J.; and Van Kampen, Craig L., 4,698,326, Cl. 514-7.000.
Savu, Patricia M., 4,647,413, Cl. 260-544.00F.
Scholz, Matthew T.; Bartizal, Dennis C.; Reed, Katherine E.; Larson, Wayne K.; Ersfeld, Dean A.; Sandvig, Timothy C.; and Buckanin, Richard S., 4,667,661, Cl. 128-90.000.
Schoon, David J., 4,683,551, Cl. 364-900.000.
Schultz, William J.; Portelli, Gene B.; and Tane, Jeffrey P., 4,684,678, Cl. 523-466.000.
Schultz, William J., 4,707,534, Cl. 528-97.000.
Schwartz, Thomas W., 4,691,845, Cl. 222-94.000.
Siedle, Allen R., 4,673,753, Cl. 556-15.000.
Simbal, John J., 4,682,863, Cl. 350-463.000.
Simbal, John J., 4,688,911, Cl. 353-97.000.
Sobieski, James F., 4,652,114, Cl. 355-3.0CH.
Sobieski, James F.; and Muehlhausen, Robert A., 4,657,371, Cl. 355-3.00R.
Solie, O. B.; and Pyle, Godfrey J., 4,679,851, Cl. 297-452.000.
Sontag, Hugh D., 4,654,880, Cl. 455-41.000.
Sorlien, Mark D.; Filreis, Manuel; and Seim, William J., 4,657,321, Cl. 339-14.00R.
Sowman, Harold G.; and Kaar, David R., 4,713,300, Cl. 428-547.000.
Strand, Jerome E., 4,694,835, Cl. 128-640.000.
Strand, Jerome E., 4,700,997, Cl. 439-372.000.
Strand, Jerome E., 4,715,382, Cl. 128-640.000.
Stypulkowski, Paul H.; and van den Honert, Christopher, 4,706,682, Cl. 128-642.000.
Tait, William C.; and Lemberger, Richard R., 4,689,636, Cl. 343-895.000.
Tengler, John N.; and Shmatovich, Chris A., 4,664,467, Cl. 339-177.00R.
Teuber, Vincent P., 4,670,809, Cl. 360-132.000.
Thiefen, James E., 4,648,738, Cl. 403-341.000.
Thien, Tran V., 4,710,570, Cl. 544-31.000.
Thompson, Robert W., 4,636,059, Cl. 355-5.000.
Tollefson, Dale T., 4,648,563, Cl. 242-76.000.
Truskolaski, Bernard S., 4,713,267, Cl. 428-4.000.
Tsay, Yuh-Geng; Beigler, Myron A.; Calenoff, Emanuel; Friesen, Gerald L.; and Nichols, James L., 4,716,120, Cl. 436-513.000.
Tung, Chi F.; and Bacon, Chester A., Jr., 4,678,695, Cl. 428-120.000.
Tung, Chi F.; and Coderre, James C., 4,712,868, Cl. 350-105.000.
Vacca, Alberto; and Vallarino, Angelo, 4,659,647, Cl. 430-264.000.
Valbusa, Luigi; Coraluppi, Enzo; Quaglia, Andrea; and Tavella, Mario, 4,636,457, Cl. 430-267.000.
Van Kampen, Craig L., 4,673,409, Cl. 623-23.000.
Verhaagen, Ronald J., 4,710,004, Cl. 353-81.000.
Vesley, George F.; and Paulson, Alan H., 4,666,771, Cl. 428-325.000.
Wasserman, Allan, 4,697,407, Cl. 57-238.000.
Welygan, Dennis G.; and Zemke, Ronald O., 4,634,485, Cl. 156-244.110.
Wildt, Theodor N., 4,709,813, Cl. 206-312.000.
Williams, Donald J.; and Kammin, Marvin R., 4,686,549, Cl. 503-227.000.
Williams, Donald J., 4,713,280, Cl. 428-149.000.
Willson, Richard F.; and Rinehart, Thomas A., 4,635,076, Cl. 346-135.100.
Wilson, Shari J., 4,674,634, Cl. 206-554.000.
Windorski, David C., 4,696,399, Cl. 206-565.000.
Winslow, Louis E.; Bennett, Richard E.; and Overstreet, Thomas S., 4,645,711, Cl. 428-355.000.
Wittnebel, Bruce W., 4,711,816, Cl. 428-412.000.
Wolf, Stephen F.; and Hegel, Ramon F., 4,652,498, Cl. 428-461.000.
Wood, Leigh E.; Miller, John A.; and Sipinen, Alan J., 4,710,190, Cl. 604-389.000.
Wyberg, Gregory R., 4,712,727, Cl. 206-631.300.
Yeung, Wing W., 4,633,648, Cl. 53-412.000.
Young, James D., 4,635,074, Cl. 346-74.200.
Zarembo, Peter J., 4,677,799, Cl. 52-220.000.

Minnesota Mining and Maufacturing Company: *See*—
Hubbard, Lloyd C.; and Clausen, Earl W., 4,690,002, Cl. 73-861.250.

Minnesota Technical Research: *See*—
Luetzow, Edwin J., 4,656,448, Cl. 335-262.000.

Minnesota Valley Engineering, Inc.: *See*—
Neeser, Timothy A., 4,683,921, Cl. 141-1.000.

Minnetti, Federico, to Officine Minnetti di Federico Minnetti & C.S.a.s. System and a process for orienting as required bored frusto-conical and/or cylindrical bodies, usually yarn reels or cones fed in bulk. 4,697,690, 10-6-87, Cl. 198-395.000.

Minney, Stephen C.: *See*—
Gummere, John B.; and Minney, Stephen C., 4,678,049, Cl. 177-229.000.

Minnich, Basil H., II, to United States of America, Air Force. Large capacity tow/release apparatus. 4,651,957, 3-24-87, Cl. 244-137.00L.

Minnick, Paul D.: *See*—
Bull, Robert W.; Soltysiak, Robert M.; and Minnick, Paul D., 4,689,224, Cl. 424-89.000.

Minnovation Limited: *See*—
Parrott, George A.; and Preddy, Neil, 4,652,056, Cl. 299-81.000.

Minns, H. Gordon: *See*—
Friedman, Aaron; and Minns, H. Gordon, 4,699,589, Cl. 433-80.000.

Mino, Hisashi; Yabe, Norio; and Iijima, Takeshi, to Sanyo-Kokusaku Pulp Co., Ltd. Multicolor image forming method using multiply diazo resin layers. 4,670,371, 6-2-87, Cl. 430-143.000.

Mino, Iwao: *See*—
Sakai, Etsuo; Nishioka, Asaaki; Watanabe, Kiyosi; and Mino, Iwao, 4,708,626, Cl. 425-398.000.

Mino, Kaoru; and Yanagisawa, Yoshikazu, to Diesel Kiki Co., Ltd. Cooling unit. 4,672,819, 6-16-87, Cl. 62-298.000.

Mino, Kaoru; Fukushima, Koji; and Kasai, Takashi, to Diesel Kiki Co., Ltd. Seal element for sealing ducts of an air conditioner system. 4,715,609, 12-29-87, Cl. 277-207.00R.

Mino, Masayuki: *See*—
Hyodo, Haruhiro; and Mino, Masayuki, 4,674,856, Cl. 355-1.000.

Mino, Nobuyuki: *See*—
Yoshizawa, Junji; Tsuchiya, Yoshimi; Hirayama, Yukio; Shimada, Kaoru; Mino, Nobuyuki; Nakamichi, Kyoko; and Matsumoto, Ikuo, 4,668,799, Cl. 514-252.000.

Mino, Shinjiro: *See*—
Okada, Takashi; Mogi, Takao; and Mino, Shinjiro, 4,636,855, Cl. 358-124.000.

Mino, Takeyasu; and Harada, Mitsuaki, to Sinter Limited. Method and installation for drying a continuous material impregnated with a hardenable synthetic resin. 4,697,355, 10-6-87, Cl. 34-41.000.

Mino, Yasutake: *See*—
Saito, Koichi; Mino, Yasutake; and Murakami, Ryoichi, 4,673,444, Cl. 148-6.15Z.

Minobe, Masao: *See*—
Suzukamo, Gohfu; Fukao, Masami; Minobe, Masao; and Sakamoto, Akemi, 4,711,873, Cl. 502-344.000.

Minobe, Shinichi; and Ueda, Tatsuo, to Koito Seisakusho Co., Ltd. Adjustable height windshield apparatus for motorcycles. 4,707,017, 11-17-87, Cl. 296-78.100.

Minobe, Shinichi: *See*—
Miyauchi, Shizuya; Suzuki, Takashi; Minobe, Shinichi; and Soga, Shigeyuki, 4,656,780, Cl. 49-348.000.

Minogue, Paschal, to Analog Devices, Inc. Temporal averaging using a voltage mode D/A converter. 4,684,922, 8-4-87, Cl. 340-347.0DA.

Minokami, Tomiyasu; Saito, Yoshinori; and Tsubouchi, Toshiyuki, to Idemitsu Kosan Company Limited. Process for producing alkenyl-aromatic hydrocarbon derivatives. 4,689,436, 8-25-87, Cl. 585-422.000.

Minokami, Tomiyasu: *See*—
Tsubouchi, Toshiyuki; Minokami, Tomiyasu; and Shimizu, Nobuaki, 4,703,124, Cl. 546-352.000.

Minolta Camera Co., Ltd.: *See*—
Inoue, Manabu; Fujino, Akihiko; and Nakai, Masaaki, 4,653,893, Cl. 354-443.000.

Minolta Camera Kabushiki Kaisha: *See*—
Akada, Yasuaki; Ishikawa, Norio; Egawa, Takeshi; and Taniguchi, Nobuyuki, 4,671,640, Cl. 354-402.000.
Ando, Makoto, 4,690,537, Cl. 354-402.000.
Ando, Makoto; and Miki, Yukio, 4,711,528, Cl. 350-257.000.
Aoyama, Satoshi; and Furukawa, Hiroshi, 4,657,384, Cl. 356-43.000.
Bartley, George S., 4,716,544, Cl. 364-900.000.
Bowsher, John M., 4,636,052, Cl. 354-410.000.
Fujino, Akihiko; Inoue, Manabu; Nakai, Masaaki; and Sekida, Minoru, 4,690,530, Cl. 354-21.000.
Fukushima, Akira; and Kudo, Yoshinobu, 4,671,626, Cl. 350-466.000.
Goto, Yasuo; and Hanada, Yoshihiro, 4,653,898, Cl. 355-8.000.
Hamada, Akiyoshi, 4,679,057, Cl. 346-76.00L.
Hamaguri, Kenji, 4,694,833, Cl. 128-633.000.
Hamaguri, Kenji; and Sakai, Takao, 4,714,341, Cl. 356-41.000.
Hamano, Hiroaki; and Shibazaki, Kenji, 4,657,380, Cl. 355-55.000.
Hoda, Takeo; Taniguchi, Nobuyuki; and Seigenji, Kiyoshi, 4,676,616, Cl. 354-21.000.
Hosomizu, Hiroshi; Tsuji, Kenji; and Kamiya, Makoto, 4,712,902, Cl. 354-416.000.
Hyodo, Haruhiro; and Mino, Masayuki, 4,674,856, Cl. 355-1.000.
Imaizumi, Masaru; Ito, Masazumi; and Shibazaki, Kenji, 4,634,262, Cl. 355-14.00R.
Imura, Kenji; and Tanimoto, Tetsuyuki, 4,664,515, Cl. 356-43.000.
Inoue, Manabu; Fujino, Akihiko; Hirano, Masayasu; Nakai, Masaaki; and Yoshida, Fumio, 4,707,104, Cl. 354-412.000.
Inoue, Norihiro; Tominaga, Shinji; Kashima, Masataka; and Nakamura, Ikushi, 4,645,325, Cl. 354-484.000.
Ishida, Tokuji; and Hamada, Masataka, 4,636,624, Cl. 250-201.000.
Ishida, Tokuji; and Hamada, Masataka, 4,650,309, Cl. 354-408.000.
Ishida, Tokuji; and Norita, Toshio, 4,660,955, Cl. 354-408.000.

Ishii, Kenjiro; Satoh, Yutaka; Fukumoto, Fumio; Otsuki, Hajime; Kokura, Yasuhide; and Saito, Shuichi, 4,695,155, Cl. 355-45.000.
Ishimura, Toshihiko; and Maekawa, Yukio, 4,637,704, Cl. 354-286.000.
Ishimura, Toshihiko, 4,699,491, Cl. 354-286.000.
Ito, Masazumi; Irie, Yutaka; Ikenoue, Yoshikazu; and Nakamura, Minoru, 4,669,858, Cl. 355-8.000.
Ito, Masazumi, 4,685,797, Cl. 355-14.0SH.
Ito, Masazumi, 4,702,589, Cl. 355-14.0SH.
Ito, Masazumi, 4,705,393, Cl. 355-14.0SH.
Itoh, Masaaki, 4,687,321, Cl. 355-41.000.
Johdai, Akiyoshi; Yamada, Hirokazu; Ikenoue, Yoshikazu; and Ishikawa, Takuma, 4,638,992, Cl. 271-293.000.
Karasaki, Toshihiko; Ueda, Hiroshi; Shintani, Michihiro; and Akagi, Katsuhiko, 4,662,735, Cl. 354-406.000.
Karasaki, Toshihiko; Matsui, Toru; and Ueda, Hiroshi, 4,696,558, Cl. 354-406.000.
Kataoka, Akira; Hawai, Yasuo; Fujii, Hidehiko; Oya, Tetsuro; and Fujino, Akihiko, 4,692,010, Cl. 354-273.000.
Kataoka, Akira; and Hawai, Yasuo, 4,699,490, Cl. 354-271.100.
Kimura, Kazuo; and Shibuya, Taro, 4,650,293, Cl. 350-453.000.
Kimura, Kazuo; Tanimoto, Tetsuyuki; and Kobayashi, Hiroshi, 4,697,878, Cl. 350-162.110.
Kitano, Hirohisa, 4,699,860, Cl. 430-57.000.
Kobayashi, Hiroshi, 4,657,354, Cl. 350-432.000.
Kyogoku, Tetsuo, 4,659,178, Cl. 350-166.000.
Lincoln, Andrew J.; Osborn, Robert; and Dreher, Geoffrey A., 4,646,259, Cl. 364-900.000.
Maejima, Takeshi; and Shiba, Kenji, 4,639,224, Cl. 434-286.000.
Masumoto, Hisayuki, 4,634,236, Cl. 350-427.000.
Masumoto, Hisayuki, 4,673,258, Cl. 350-427.000.
Masumoto, Hisayuki, 4,701,033, Cl. 350-425.000.
Matsui, Tohru; and Egawa, Takeshi, 4,690,538, Cl. 354-403.000.
Metabi, Tsuneyo, 4,682,871, Cl. 354-400.000.
Mizuno, Hiroshi; Iino, Shuji; Osawa, Izumi; and Doi, Isao, 4,659,639, Cl. 430-65.000.
Mukai, Hiromu; Yamaki, Toshio; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,705,382, Cl. 354-412.000.
Mutoh, Masayuki; and Kamiyama, Shinji, 4,673,951, Cl. 346-75.000.
Nakai, Masaaki; Sahara, Masayoshi; and Taniguchi, Nobuyuki, 4,639,112, Cl. 354-455.000.
Nakai, Masaaki; Sahara, Masayoshi; and Taniguchi, Nobuyuki, 4,673,275, Cl. 354-412.000.
Nakai, Masaaki; Izumi, Shuji; Fujino, Akihiko; Taniguchi, Nobuyuki; Yamaki, Toshio; and Mukai, Hiromu, 4,690,536, Cl. 354-402.000.
Nakamura, Ikushi, 4,690,878, Cl. 429-1.000.
Naruse, Kazuhiko; and Yuasa, Yoshio, 4,637,721, Cl. 356-215.000.
Nishimori, Kadotaro, 4,711,554, Cl. 355-8.000.
Nishimori, Kadotaro; Yoshida, Keiji; and Ohira, Tadashi, 4,711,569, Cl. 355-69.000.
Nishiyama, Masaaki; and Tanaka, Atsuyuki, 4,703,438, Cl. 364-519.000.
Niwa, Masatake; and Maekawa, Yukio, 4,659,203, Cl. 354-286.000.
Noma, Akira; and Osawa, Izumi, 4,699,864, Cl. 430-100.000.
Oda, Masataka; Yoshiyama, Tsugihito; Myochin, Hisashi; and Matsushita, Kouji, 4,688,927, Cl. 355-3.0TR.
Oka, Tateki, 4,640,883, Cl. 430-122.000.
Oka, Tateki, 4,659,211, Cl. 355-14.00D.
Osawa, Izumi; Doi, Isao; and Natsuhara, Toshiya, 4,681,825, Cl. 430-57.000.
Osawa, Izumi; Doi, Isao; and Natsuhara, Toshiya, 4,683,184, Cl. 430-57.000.
Osawa, Izumi; Doi, Isao; and Natsuhara, Toshiya, 4,683,185, Cl. 430-57.000.
Osawa, Izumi; Doi, Isao; and Natsuhara, Toshiya, 4,686,164, Cl. 430-63.000.
Osawa, Izumi; Doi, Isao; and Natsuhara, Toshiya, 4,698,287, Cl. 430-37.000.
Otsuki, Hajime; Ishii, Kenjiro; Satoh, Yutaka; and Fukumoto, Fumio, 4,708,464, Cl. 355-45.000.
Saijo, Takao; and Fujita, Masafumi, 4,693,591, Cl. 355-41.000.
Sawa, Yasuo, 4,647,034, Cl. 271-293.000.
Shibazaki, Kenji; Irie, Yutaka; Ito, Masazumi; and Murata, Tomoji, 4,644,499, Cl. 364-900.000.
Shibuya, Kouji; and Imazeki, Chiharu, 4,642,656, Cl. 346-76.0PH.
Sogame, Masakazu, 4,673,282, Cl. 355-14.00E.
Sugiura, Masamichi; and Kitagawa, Tsuneo, 4,646,330, Cl. 377-15.000.
Suzuki, Takao; and Shiba, Kenji, 4,643,681, Cl. 434-286.000.
Takano, Yoshiaki; and Kinoshita, Keichi, 4,697,917, Cl. 355-14.00R.
Takeda, Katsuhiko; and Sugiura, Masamichi, 4,641,957, Cl. 355-58.000.
Tanaka, Osamu, 4,666,277, Cl. 354-270.000.
Tanigami, Yukio; Iino, Shuji; and Nakamura, Mitsutoshi, 4,642,278, Cl. 430-66.000.
Tanigami, Yukio; Iino, Shuji; and Nakamura, Mitsutoshi, 4,642,279, Cl. 430-66.000.
Taniguchi, Nobuyuki; Tominaga, Shinji; Yamamoto, Kouji; Ootsuka, Hiroshi; and Ueda, Hiroshi, 4,662,736, Cl. 354-412.000.
Taniguchi, Nobuyuki; Omaki, Takanobu; Ishikawa, Norio; Nakai, Masaaki; Ishida, Tokuji; and Hamada, Masataka, 4,702,584, Cl. 354-400.000.
Taniguchi, Nobuyuki; Niwa, Masatake; Fujii, Akira; Hoda, Takeo; Nakai, Masaaki; Sekida, Minoru; and Sahara, Masayoshi, 4,712,904, Cl. 354-475.000.
Taniguchi, Nobuyuki; Ishida, Tokuji; Hamada, Masataka; Karasaki, Toshihiko; and Norita, Toshio, 4,716,434, Cl. 354-408.000.
Taniguchi, Toshihiko; and Miki, Yukio, 4,682,273, Cl. 362-18.000.
Tanii, Junichi; Yamaki, Toshio; and Seigenji, Kiyoshi, 4,687,266, Cl. 439-77.000.
Tanii, Junichi; and Maekawa, Yukio, 4,712,871, Cl. 350-257.000.
Tokumaru, Hisashi, 4,636,040, Cl. 350-427.000.
Toriumi, Shiro; Yamagishi, Seiichi; Yamakoshi, Yukiyoshi; Ishii, Kenjiro; and Maeda, Yutaka, 4,665,408, Cl. 346-134.000.
Ueda, Hideaki, 4,642,280, Cl. 430-73.000.
Ueda, Masahide; and Ohira, Tadashi, 4,708,458, Cl. 355-3.0DD.
Yamaki, Toshio; Mukai, Hiromu; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,693,581, Cl. 354-400.000.
Yasumoto, Hidetoshi; and Tanimoto, Tetsuyuki, 4,640,609, Cl. 355-37.000.
Yuasa, Yoshio; Naruse, Kazuhiko; and Inaba, Masahito, 4,655,576, Cl. 354-415.000.
Yuasa, Yoshio; Yasumoto, Hidetoshi; Naruse, Kazuhiko; Kawagoe, Nobukazu; and Inaba, Masahito, 4,704,025, Cl. 355-38.000.
Yuge, Shizuo; and Sakakibara, Susumu, 4,676,192, Cl. 118-658.000.
Minonishi, Kuniaki; and Sato, Reijiro, to Asahi Kasei Kogyo Kabushiki Kaisha. Photosensitive resin composition which is improved with respect to surface tack-free characteristic after curing, and a method. 4,716,094, 12-29-87, Cl. 430-284.000.
Minonzio, Luigi: *See*—
Lodispoto, Alberto, 4,681,114, Cl. 128-581.000.
Minor, Cathy L. Pad of sheets for removing particulate matter. 4,713,274, 12-15-87, Cl. 428-40.000.
Minor, James C., to Eastman Kodak Company. Optional output for test patches. 4,684,243, 8-4-87, Cl. 355-14.0SH.
Minor, James C., to Eastman Kodak Company. Corona-charging apparatus. 4,695,723, 9-22-87, Cl. 250-325.000.
Minor, Mathew T. Wire solder feeder device. 4,688,709, 8-25-87, Cl. 226-128.000.
Minor, Phillip D.: *See*—
Almond, Jeffrey W.; Minor, Phillip D.; Evans, David M. A.; and Schild, Geoffrey C., 4,694,071, Cl. 530-329.000.
Minorikawa, Koich; and Kitazawa, Shinichi, to Toray Industries, Inc. Process and apparatus for making fasciated yarn. 4,667,463, 5-26-87, Cl. 57-328.000.
Minoru, Ishida. Drive mechanism for toy running vehicles. 4,662,477, 5-5-87, Cl. 185-45.000.
Minoru, Ishida. Two-speed drive mechanism for toys. 4,715,475, 12-29-87, Cl. 185-39.000.
Minoru, Nobuki: *See*—
Hashimoto, Kenki; Doi, Haruo; Tokuzou, Tsujimoto; Osamu, Nakano; and Minoru, Nobuki, 4,661,316, Cl. 420-418.000.
Minoura, Jun: *See*—
Ito, Toshiyasu; Mori, Takaaki; Minoura, Jun; and Shimada, Junichi, 4,664,934, Cl. 427-38.000.
Minoura, Kazuo: *See*—
Matsuoka, Kazuhiko; Usui, Masayuki; Minoura, Kazuo; Baba, Takeshi; and Someya, Atsushi, 4,641,920, Cl. 350-173.000.
Minoura, Takayoshi; and Ogawa, Kikuo, to Yazaki Corporation. Function circuit incorporating type wiring device for automobile. 4,703,397, 10-27-87, Cl. 361-428.000.
Minowa, Masahiro, to Seiko Epson Corporation. Print control device for a dot matrix printer. 4,714,363, 12-22-87, Cl. 400-322.000.
Minowa, Toshio; Hashimoto, Tetsuro; Kuroda, Kohji; and Nakayama, Kazutaka, to Asahi Glass Company, Ltd.; and Noritake Co., Limited. Display device and decal for forming a display panel terminal. 4,697,885, 10-6-87, Cl. 350-334.000.
Minox GmbH: *See*—
Rinn, Juergen; and Belitz, Fritz, 4,639,110, Cl. 354-403.000.
Minpro Pty. Limited: *See*—
Lees, Jeremy J.; Pryor, Murray H.; and Andrews, John R. G., 4,664,789, Cl. 209-211.000.
Minpro Supply, Incorporated: *See*—
Bailey, Robert L.; and Howell, Kenneth L., 4,700,687, Cl. 126-121.000.
Minshall, Aubrey W. Shelving unit. 4,665,838, 5-19-87, Cl. 108-111.000.
Minshull, John F.; and Pinnell, Martin C., to International Business Machines Corporation. Presentation space management and viewporting on a multifunction virtual terminal. 4,642,790, 2-10-87, Cl. 364-900.000.
Minta, Akwasi: *See*—
Tsien, Roger Y.; Grynkiewicz, Grzegorz; and Minta, Akwasi, 4,689,432, Cl. 562-435.000.
Mintchev, Mintcho S.: *See*—
Savov, Svetoslav A.; Mintchev, Mintcho S.; Nitchev, Peter T.; and Shivarov, Georgi S., 4,648,952, Cl. 204-192.120.
Minten, Karl; and Krug, William, to Gould Inc. Gas monitoring device and method. 4,637,987, 1-20-87, Cl. 436-151.000.
Minten, Karl; and Krug, William, to Gould Inc. Oxygen monitoring device and method. 4,677,078, 6-30-87, Cl. 436-136.000.
Minten, Karl L.; and Pismennaya, Galina, to Olin Hunt Specialty Products, Inc. Printed wiring board having carbon black-coated through holes. 4,684,560, 8-4-87, Cl. 428-131.000.
Minter, Mearl J., to Rolscreen Company. Curved window assembly and method of formation. 4,669,233, 6-2-87, Cl. 52-86.000.

Minto, Francesco: *See*—
Lora, Silvano; Minto, Francesco; DiMarco, Piergiulio; Giro, Gabriele; and Pezzin, Giovanni, 4,657,993, Cl. 525-538.000.
Minton, Allen P.; Attri, Arun K.; and Sullivan, James V., to United States of America, Health and Human Services. Method and apparatus for sequential fractionation. 4,693,984, 9-15-87, Cl. 436-180.000.
Mints, Danny K.: *See*—
Wienck, Dennis A.; and Mints, Danny K., 4,682,506, Cl. 73-863.540.
Mintz, Daniel. Gate lock. 4,687,238, 8-18-87, Cl. 292-137.000.
Mintz, Donald J.; Brons, Cornelius H.; and Smith, Floyd E., to Exxon Research & Engineering Co. Clarifying a contaminated fluid. 4,634,510, 1-6-87, Cl. 204-188.000.
Mintz, Donald J.; Kelly, Arnold J.; and Gleason, Anthony M., to Exxon Research and Engineering Company. Separation of dispersed phase from phase mixture. 4,661,226, 4-28-87, Cl. 204-186.000.
Mintz, Donald J., to Exxon Research and Engineering Company. Flocculation of particles by polymers that precipitate out of solution. 4,696,750, 9-29-87, Cl. 210-727.000.
Mintz, Donald J.; Peiffer, Dennis G.; Thaler, Warren A.; and Duvdevani, Ilan, to Exxon Research and Engineering Company. Use of amine neutralized sulfonated polystyrenes for particle flocculation. 4,701,263, 10-20-87, Cl. 210-728.000.
Mintz, Donald M., to Varian Associates, Inc. Targets for magnetron sputter device having separate confining magnetic fields to separate targets subject to separate discharges. 4,657,654, 4-14-87, Cl. 204-298.000.
Mintz, Donald M., to Varian Associates, Inc. Apparatus and method for manufacturing planarized aluminum films. 4,661,228, 4-28-87, Cl. 204-192.250.
Mintz, John D.: *See*—
Kortschinski, Juri; Mintz, John D.; and Filter, Reinhard, 4,685,021, Cl. 361-42.000.
Mintz, Michael, to W. T. Associates. Apparatus for implementing a standardized skin incision. 4,643,189, 2-17-87, Cl. 128-314.000.
Mintz, Michael D., to International Technidyne Corp. Apparatus for analyzing the influence of additive reagents upon the coagulation of blood and related methods. 4,671,939, 6-9-87, Cl. 422-58.000.
Mintz, S. Stanley: *See*—
Peterson, Thomas W.; Hole, David B.; and Mintz, S. Stanley, 4,678,952, Cl. 310-83.000.
Mintzer, Frederick C.; and Anderson, Karen L., to International Business Machines Corporation. Image reduction method. 4,712,140, 12-8-87, Cl. 358-260.000.
Mintzer, Frederick C.: *See*—
Anderson, Karen L.; and Mintzer, Frederick C., 4,656,664, Cl. 382-47.000.
Chen, Yi-Hsin; Mintzer, Frederick C.; and Pennington, Keith S., 4,668,995, Cl. 358-282.000.
Mitchell, Joan L. V.; Anderson, Karen L.; and Mintzer, Frederick C., 4,689,824, Cl. 382-46.000.
Minutillo, Emanuele: *See*—
Dimora, Leonardo; and Minutillo, Emanuele, 4,659,130, Cl. 296-1.00S.
Mio, Kohei; Yamagishi, Yukio; Ishikawa, Hiroshi; Fukukawa, Mitsuo; and Takahashi, Shigeyuki, to Kajima Corporation; and Kajima Road Company. Slope paving machine. 4,699,543, 10-13-87, Cl. 404-109.000.
Mio, Kotaro: *See*—
Iri, Eiji; Kaneko, Takashi; Shintani, Takeshi; Mio, Kotaro; and Ijiri, Yasuo, 4,711,523, Cl. 350-96.230.
Mioche, Robert, to Compagnie Generale des Etablissements Michelin. Method for obtaining strips from a material, particularly from a latex coalugum. 4,663,100, 5-5-87, Cl. 264-158.000.
Miodownik, Saul, to Memorial Hospital for Cancer and Allied Diseases. Sampled N-path filter. 4,646,258, 2-24-87, Cl. 364-825.000.
Miodownik, Saul: *See*—
Sigelman, Jesse L.; and Miodownik, Saul, 4,691,195, Cl. 340-545.000.
Mioduski, Paul, to RDM International, Inc. Circuit apparatus and method for electrothermal treatment of cancer eye. 4,644,955, 2-24-87, Cl. 128-422.000.
Mioduski, Paul C.: *See*—
Ceccon, Claude R.; and Mioduski, Paul C., 4,635,192, Cl. 364-200.000.
Ceccon, Claude R.; Kovara, Joseph N.; and Mioduski, Paul C., 4,660,141, Cl. 364-200.000.
Mioen, Thomas K.: *See*—
Dyvik, Froystein; and Mioen, Thomas K., 4,710,277, Cl. 204-119.000.
Mion, Louis: *See*—
Commeyras, Auguste; Taillades, Jacques; Brugidou, Jean; Mion, Louis; Sola, Regine; Pascal, Robert; Lasperas, Monique; and Rousset, Alain, 4,617,224, Cl. 562-557.000.
Mione, Lawrence J., to Voltec Corporation. Current-controlled on/off power line switching of electrical devices. 4,675,537, 6-23-87, Cl. 307-38.000.
Miozzari, Giuseppe F.: *See*—
Kleid, Dennis G.; Yansura, Daniel G.; Heyneker, Herbert L.; and Miozzari, Giuseppe F., 4,663,283, Cl. 435-91.000.
Miply Equipment, Inc.: *See*—
Long, Eliot R., 4,702,943, Cl. 427-282.000.
Miquet, Pierre: *See*—
Heidmann, Richard; and Miquet, Pierre, 4,671,165, Cl. 89-41.190.
Mir, Ghulam N.: *See*—
Yelnosky, John; and Mir, Ghulam N., 4,701,457, Cl. 514-256.000.
Mir, Jose M., to Eastman Kodak Company. Linear light valve arrays having transversely driven electro-optic gates and method of making such arrays. 4,707,081, 11-17-87, Cl. 350-388.000.
Mira Lanza S.p.A.: *See*—
Nistri, Ugo; Baroffio, Romano; Ghisu, Giuseppe; Chiellini, Enzo; Padula, Giorgio; and Fonzi, Giorgio, 4,650,409, Cl. 425-82.100.
Mirabel, Bernard: *See*—
Hess, Raoul; and Mirabel, Bernard, 4,668,441, Cl. 261-79.200.
Miracle, Gerald H.: *See*—
Fredericks, Kenneth J.; Guerriero, Thomas W.; Miracle, Gerald H.; and Wiegand, Michael R., 4,712,176, Cl. 364-200.000.
Miraglia, John A.: *See*—
Gillett, John B.; and Miraglia, John A., 4,636,019, Cl. 339-17.00M.
Miraldi, Peter T.: *See*—
Kaehler, Kristine M.; Krahe, Ronald P.; Miraldi, Peter T.; and McBride, Richard A., 4,687,635, Cl. 422-26.000.
Miram, George V.; and Treseder, Robert C., to Varian Associates, Inc. Method and apparatus for quickly heating a vacuum tube cathode. 4,675,573, 6-23-87, Cl. 315-94.000.
Miramonti, John L.: *See*—
Bloy, Graham P.; and Miramonti, John L., 4,695,825, Cl. 340-347.0SH.
Miranda Investments Limited: *See*—
Reilly, Frederick W., 4,673,308, Cl. 403-172.000.
Miranda, Particia M.: *See*—
Miranda, Ronald E.; and Miranda, Particia M., 4,658,149, Cl. 250-577.000.
Miranda, Ronald E.; and Miranda, Particia M. Method and apparatus for measuring the depth of a flowing liquid. 4,658,149, 4-14-87, Cl. 250-577.000.
Miranda, Sandra: *See*—
Binker, Norman; and Miranda, Sandra, 4,692,162, Cl. 604-385.00R.
Miranda, Thomas J., to Whirlpool Corporation. Semi-organic foams. 4,708,970, 11-24-87, Cl. 521-123.000.
Miranti, Joseph P., Jr.; Oliver, Larry R.; and Johnson, Clyde O., to Dayco Products, Inc. Belt construction for a continuously variable transmission, transverse belt element therefor and methods of making the same. 4,676,768, 6-30-87, Cl. 474-201.000.
Miranti, Joseph P., Jr.: *See*—
Quick, Terrence R.; Miranti, Joseph P., Jr.; and Foster, Randy C., 4,634,405, Cl. 474-13.000.
Miraucourt, Carmen: *See*—
Imbault, Jean-Francois R.; Mestre, Roland R.; Miraucourt, Carmen; and Ritt, Remy P. C., 4,676,715, Cl. 415-116.000.
Mirbeth, Rudolph: *See*—
Jenzsch, Gunter; Rasch, Kurt; and Wegscheider, Hans J., 4,637,558, Cl. 241-79.000.
Mircea, Andrei S. Reactor for vapor phase epitaxy. 4,714,594, 12-22-87, Cl. 422-245.000.
Miree, Mallory F. Apparatus for mounting flashlights to bicycles. 4,688,705, 8-25-87, Cl. 224-39.000.
Miree, Mallory F. Apparatus for mounting flashlights to bicycles. 4,697,725, 10-6-87, Cl. 224-41.000.
Mirel, Arthur G., to Techrad Corporation. Method and apparatus for controlling leaks in pressurized fluid systems. 4,643,213, 2-17-87, Cl. 137-10.000.
Mirell, Stuart G. Electromagnetic therapy control system. 4,690,130, 9-1-87, Cl. 128-1.300.
Mirenna, Luigi: *See*—
Colle, Roberto; Camaggi, Giovanni; Gozzo, Franco; Visentin, Walter; and Mirenna, Luigi, 4,704,398, Cl. 514-383.000.
Mirigay, Solange M. V.: *See*—
Viannay, Stephane G. J.; Roth, Bernard M.; Mirigay, Solange M. V.; and Chastang, Georges J. B., 4,711,431, Cl. 266-114.000.
Miripol, Jeffrey E.; Heaton, Andrew; and Kandler, Richard L., to Baxter Travenol Laboratories, Inc. L-ascorbate-2-phosphate salts in blood cell storage. 4,704,352, 11-3-87, Cl. 435-2.000.
Mirjanic, Milorad, to Daimler-Benz Aktiengesellschaft. Engine cylinder liner arrangement. 4,656,982, 4-14-87, Cl. 123-193.0CH.
Mirkin, Jorge. Colloid lubricant and method of lubricating musical wind instruments. 4,670,174, 6-2-87, Cl. 252-565.000.
Mirkin, Morris K.: *See*—
Gaskins, Arthor L., 4,644,401, Cl. 358-183.000.
Mirliss, Melvin J.: *See*—
Tarbell, Harlan E.; and Mirliss, Melvin J., 4,671,973, Cl. 427-215.000.
Miro, Nemesio D.; Farha, Floyd E.; and Capshew, Charles E., to Phillips Petroleum Company. Supported polyolefin catalyst components and methods of making and using same. 4,680,351, 7-14-87, Cl. 526-125.000.
Miro Roig, Pedro: *See*—
Elia De Miguel, Maria-Fe; Miro Roig, Pedro; and Pares Olivet, Eulalia, 4,642,288, Cl. 435-99.000.
Miron, Amihai; and Koo, David, to North American Philips Corporation. Picture-in-picture color television receiver. 4,665,438, 5-12-87, Cl. 358-183.000.
Miron Aviv: *See*—
Widman, Richard M., 4,671,787, Cl. 604-179.000.
Miron, William L., to Computerized Security Systems, Inc. Recentering for shafts of locks and other mechanisms. 4,641,868, 2-10-87, Cl. 292-336.300.
Mirone, Paolo; and Colanzi, Franco, to RIV-SKF Officine di Villar Perosa S.p.A. Oiltight hydraulic tappet for controlling an internal combustion engine valve. 4,649,875, 3-17-87, Cl. 123-90.580.

Mironova, Emilia M.: *See—*
Semenov, Pavel A.; Fedorov, Svyatoslav N.; Mironova, Emilia M.; and Egorova, Eleonora V., 4,653,001, Cl. 364-415.000.

Mirow, Fred. High efficiency transformerless AC/DC converter. 4,709,322, 11-24-87, Cl. 363-86.000.

Mirowski, Mieczslaw: *See—*
Imran, Mir, 4,705,043, Cl. 128-419.0PG.

Mirowski, Mieczyslaw: *See—*
Heilman, Marlin S.; and Bach, Stanley M., Jr., 4,662,377, Cl. 128-419.00D.
Imran, Mir, 4,667,328, Cl. 371-61.000.

Mirram Drive Inc.: *See—*
Sivalingam, Ramalingam, 4,706,520, Cl. 74-781.00R.

Mirsberger, Helmut: *See—*
Richter, Hanno; Mirsberger, Helmut; Uhlig, Raimer; Haage, Manfred; and Uebel, Philipp, 4,708,551, Cl. 411-32.000.

Mirsberger, Peter, to Sulzer-Escher Wyss GmbH. Twin-wire papermaking machine and method of dewatering a paper web in a twin-wire papermaking machine. 4,662,992, 5-5-87, Cl. 162-203.000.

Mirsberger, Peter: *See—*
Heitmann, Peter; Holik, Herbert; and Mirsberger, Peter, 4,661,206, Cl. 162-358.000.

Mirsky, Saul: *See—*
Staroselsky, Naum; and Mirsky, Saul, 4,640,665, Cl. 415-1.000.

Mirtich, Michael J.: *See—*
Sovey, James S.; Banks, Bruce A.; and Mirtich, Michael J., 4,664,980, Cl. 428-421.000.

Mirtsch, Frank: *See—*
Wolowski, Eckard; and Mirtsch, Frank, 4,636,300, Cl. 208-400.000.
Wolowski, Eckard; Mirtsch, Frank; and Dybus, Herbert, 4,696,735, Cl. 208-408.000.

Mirua, Konoe; Takimoto, Hiroshi; Kaneko, Toshio; Ohta, Tokuya; Kobayashi, Masatsune; and Eida, Tsuyoshi, to Canon Kabushiki Kaisha; and Mitsubishi Chemical Industries, Ltd. Liquic composition and method for recording. 4,683,002, 7-28-87, Cl. 106-20.000.

Mirubayashi, Toshio: *See—*
Sasaki, Naoya; Kawauchi, Masataka; Fukudome, Yoshio; Takeda, Fumio; Suzuki, Yoichi; Mirubayashi, Toshio; and Utsumi, Itsunori, 4,653,742, Cl. 271-114.000.

Mirviss, Stanley B., to Stauffer Chemical Company. Hydrogenation of substituted, unsaturated hydantoins to substituted, saturated hydantoins. 4,650,876, 3-17-87, Cl. 548-308.000.

Mirviss, Stanley B.; and Weil, Edward D., to Stauffer Chemical Company. Process for the formation of phosphonoalkylated amino acids. 4,661,298, 4-28-87, Cl. 260-502.50F.

Mirviss, Stanley B., to Stauffer Chemical Company. Promotion of raney nickel hydrogenation catalyst. 4,684,735, 8-4-87, Cl. 548-308.000.

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Mirzadeh, Saed; and Lambrecht, Richard M., to United States of America, Energy. Method for the simultaneous preparation of Radon-211, Xenon-125, Xenon-123, Astatine-211, Iodine-125 and Iodine-123. 4,664,869, 5-12-87, Cl. 376-195.000.

Mirzadeh, Saed; and Lambrecht, Richard M., to United States of America, Energy. Process for producing astatine-211 for radiopharmaceutical use. 4,681,727, 7-21-87, Cl. 376-198.000.

Mis, Frank J. Folding leg support for metal bed. 4,670,922, 6-9-87, Cl. 5-200.00R.

Mis, Frank J. Combined bed frame and bed spring assembly. 4,698,863, 10-13-87, Cl. 5-200.00R.

Mis, Katherine H.: *See—*
Arnold, Allen J.; Courtney, Mark G.; Kirby, Diane N.; Mis, Katherine H.; and Sutton, Kerry L., 4,715,430, Cl. 165-80.300.

Misaki, Akira; Sone, Yoshiaki; and Kato, Takao, to Toyo Soda Manufacturing Co., Ltd. Polysaccharide polyol. 4,639,516, 1-27-87, Cl. 536-123.000.

Misaki, Hideo, to Toyo Jozo Kabushiki Kaisha. Highly sensitive enzyme assay method. 4,693,971, 9-15-87, Cl. 435-17.000.

Misaki, Hideo: *See—*
Ishikawa, Hidehiko; Matsuura, Kazuo; and Misaki, Hideo, 4,683,198, Cl. 435-22.000.

Misao, Ikuo: *See—*
Komatsu, Kousuke; Miyauchi, Tsutomu; Misao, Ikuo; Kimura, Mutsumi; Fujiwara, Tadashi; Tsuchida, Yoshio; and Kuroiwa, Junko, 4,646,134, Cl. 358-11.000.

Misawa Home Kabushika Kaisha: *See—*
Nakano, Sota; and Ozawa, Masaaki, 4,683,003, Cl. 106-86.000.

Misawa Home Kabushiki Kaisha: *See—*
Nakano, Sota; and Ozawa, Masaaki, 4,655,979, Cl. 264-42.000.

Misawa Homes Company Limited: *See—*
Kataishi, Takao; and Suenaga, Syonin, 4,659,527, Cl. 264-46.400.

Misawa, Isao. Display apparatus for single-lens reflex camera. 4,716,429, 12-29-87, Cl. 354-409.000.

Misawa, Makoto: *See—*
Ahagon, Asahiro; Kobayashi, Toshio; Yamada, Kazuhiro; Doi, Seiichi; and Misawa, Makoto, 4,635,693, Cl. 152-209.00R.

Misawa, Nobutaka: *See—*
Ishino, Ken; Hashimoto, Yasuo; Hayashi, Katuhiko; and Misawa, Nobutaka, 4,689,460, Cl. 219-10.55D.

Misawa, Rintaro, to Sunwa Sharyo Manufacturing Co., Ltd. Hand truck. 4,681,330, 7-21-87, Cl. 280-47.200.

Misawa, Rintaro; and Takahashi, Kou, to Sunwa Sharyo Manufacturing Co., Ltd. Carrier for rescuing patients. 4,688,813, 8-25-87, Cl. 280-5.220.

Misawa, Rokuro: *See—*
Ishiwatari, Takeo; Sasaki, Yasuchiyo; Misawa, Rokuro; and Takao, Shingo, 4,641,690, Cl. 141-4.000.

Misawa, Yoshihiko; Ishii, Taira; and Maeda, Yoshinobu, to Matsushita Electric Industrial Co., Ltd. Jumper wire inserting apparatus. 4,696,424, 9-29-87, Cl. 227-84.000.

Misawa, Yoshihiko: *See—*
Seno, Makito; Misawa, Yoshihiko; Maeda, Yoshinobu; and Fukumoto, Kengi, 4,706,379, Cl. 29-740.000.

Mischenko, Nicholas, to Motorola, Inc. Flex-lock dovetail mounting apparatus for radio transceivers and accessories. 4,681,476, 7-21-87, Cl. 403-42.000.

Mischenko, Nicholas, to Motorola, Inc. Interlocking module housing. 4,711,361, 12-8-87, Cl. 220-4.00F.

Mischer, Hans-Peter, to Gebr. Isringhausen. Vehicle seat. 4,645,169, 2-24-87, Cl. 248-550.000.

Mischke, Joachim; and Schroder, Gunter, to Deutsche Gesellschaft fur Wiederaufarbeitung von Kernbrennstoffen mbH. Remotely-operable carrier arrangement for receiving and positioning remote-handling apparatus. 4,702,663, 10-27-87, Cl. 414-618.000.

Mischke, Peter; and Fuchs, Hermann, to Hoechst Aktiengesellschaft. Water-soluble monoazo compounds containing a N-(sulfoalkyl)-aniline coupling component and a fiber-reactive group of the vinylsulfonyl series in the phenyl or benzothiazole diazo component, suitable as fiber-reactive dyestuffs. 4,652,634, 3-24-87, Cl. 534-642.000.

Mischke, Peter; and Schlafer, Ludwig, to Hoechst Aktiengesellschaft. Water-soluble benzothiazole-azo- and phenyl-azo-compounds containing a 2-sulfo-5-acylamino-aniline coupling component, suitable as fibre-reactive dyestuffs. 4,703,112, 10-27-87, Cl. 534-642.000.

Mischke, Peter: *See—*
Meininger, Fritz; Mischke, Peter; Konig, Gerd; and Springer, Hartmut, 4,693,726, Cl. 8-547.000.

Misco, Peter F., Jr.: *See—*
Kim, Choung U.; and Misco, Peter F., Jr., 4,640,799, Cl. 540-350.000.
Kim, Choung U.; and Misco, Peter F., Jr., 4,642,341, Cl. 540-350.000.
Kim, Choung U.; and Misco, Peter F., Jr., 4,665,170, Cl. 540-350.000.
Kim, Choung Un.; and Misco, Peter F., Jr., 4,710,568, Cl. 540-350.000.

Mise, Minoru, to Simmons Outdoor Corporation. Spotting scope with alignment viewer. 4,669,833, 6-2-87, Cl. 350-558.000.

Miseo, Sabato: *See—*
Fiato, Rocco A.; Bar-Gadda, Ronny; and Miseo, Sabato, 4,657,885, Cl. 502-241.000.
Fiato, Rocco A.; Rice, Gary W.; Miseo, Sabato; and Soled, Stuart L., 4,687,753, Cl. 502-5.000.

Miset AG: *See—*
Sedlacek, Walter, 4,673,491, Cl. 209-453.000.

Misewicz, Leon M.: *See—*
Vrabel, Robert J.; Vajgart, Jeffery L.; Staszel, Lawrence E.; Ewald, Henry J.; Haygood, Norman M., Jr.; and Misewicz, Leon M., 4,678,975, Cl. 318-266.000.

Miseyko, George; Peck, Walter R.; and Chase, Ronald G., to Stencel Aero Engineering Corp. Discard assembly for parachute deployment mechanism. 4,637,577, 1-20-87, Cl. 244-147.000.

Misher, Hans-Peter; and Pietsch, Helge, to Gebr. Isringhausen. Vehicle seat monitoring means. 4,638,982, 1-27-87, Cl. 267-131.000.

Mishima, Akifumi: *See—*
Morikawa, Masaki; Ohe, Junya; Mishima, Akifumi; and Saitoh, Sadao, 4,659,632, Cl. 428-679.000.

Mishima, Fumiyuki: *See—*
Hanyu, Susumu; Takenoya, Hideaki; and Mishima, Fumiyuki, 4,664,545, Cl. 400-616.200.
Takenoya, Hideaki; and Mishima, Fumiyuki, 4,697,941, Cl. 400-185.000.

Mishima, Junichi, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument producing level-controlled rhythmic tones. 4,704,932, 11-10-87, Cl. 84-1.030.

Mishima, Kenichi: *See—*
Ina, Kenzoh; Otani, Masatoshi; and Mishima, Kenichi, 4,694,352, Cl. 358-257.000.

Mishima Kosan Corporation: *See—*
Ushio, Tetsuji; Tatsuguchi, Satoru; Tani, Hoshiro; and Tsuzawa, Takashi, 4,688,320, Cl. 29-527.400.

Mishima, Kyoichi: *See—*
Tanaka, Hiroyuki; Takami, Eiichi; Mishima, Kyoichi; Higashi, Mitsunobu; and Kumasaki, Toshimi, 4,702,729, Cl. 474-205.000.

Mishima, Mannen: *See—*
Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi, 4,709,079, Cl. 560-66.000.

Mishima, Masayuki, to Research Development Corp. of Japan. Method of preparing urea adsorbent. 4,677,135, 6-30-87, Cl. 521-62.000.

Mishima, Masayuki, to Research Dev. Corp. of Japan; and Kao Corporation. Urea adsorbent. 4,715,961, 12-29-87, Cl. 210-692.000.

Mishima Paper Co., Ltd.: *See—*
Kato, Ippei; Takasu, Masao; and Maruyama, Nobuo, 4,645,566, Cl. 162-138.000.

Mishima, Tadaaki: *See—*
Orita, Miyahiko; Kobayashi, Yoshiki; and Mishima, Tadaaki, 4,682,365, Cl. 382-14.000.

Mishima, Tomoyoshi: *See*—
Sawada, Yasushi; Ueyanagi, Kiichi; Katayama, Yoshifumi; Shiraki, Yasuhiro; Morioka, Makoto; Kuroda, Takao; and Mishima, Tomoyoshi, 4,672,406, Cl. 357-22.000.
Shiraki, Yasuhiro; Katayama, Yoshifumi; Murayama, Yoshimasa; Morioka, Makoto; Sawada, Yasushi; Mishima, Tomoyoshi; Kuroda, Takao; and Maruyama, Eiichi, 4,673,959, Cl. 357-22.000.
Mishima, Yasuhiro; Makibayashi, Katsunori; and Kuwayama, Kiyoaki, to Toyota Jidosha Kabushiki Kaisha; and Chuohatsujyo Kabushiki Kaisha. Leaf spring assembly. 4,637,595, 1-20-87, Cl. 267-52.000.
Mishima, Yoshibumi, to Honda Giken Kogyo Kabushiki Kaisha. Piston for internal combustion engine. 4,696,224, 9-29-87, Cl. 92-187.000.
Mishina, Kazuhiro, to Matsushita Electric Works, Ltd. Temperature compensated electro-optical light transmission circuit for use in a position detector. 4,694,157, 9-15-87, Cl. 250-214.00C.
Mishiro, Shoji, to Taga Electric Co., Ltd. Driving control method of ultrasonic transducer. 4,635,483, 1-13-87, Cl. 73-579.000.
Mishiro, Shoji, to Taga Electric Co., Ltd. Torsional vibration apparatus. 4,652,786, 3-24-87, Cl. 310-333.000.
Mishiro, Shoji, to Taga Electric Co., Ltd. Rotary ultrasonic motor. 4,697,117, 9-29-87, Cl. 310-323.000.
Mishiro, Shoji, to Taga Electric Co., Ltd. Ultrasonic vibrator and its drive control method. 4,703,214, 10-27-87, Cl. 310-328.000.
Mishiro, Shoji, to Taga Electric Co., Ltd. Drive control method of ultrasonic vibrator. 4,705,980, 11-10-87, Cl. 310-323.000.
Mishkin, Martin A.: *See*—
Seiden, Paul; and Mishkin, Martin A., 4,680,184, Cl. 426-654.000.
Mishler, Jack L. Storage apparatus for hitch and hitch torsion bars when not in use. 4,709,940, 12-1-87, Cl. 280-405.00R.
Mishler, Ralph E.; and Stocco, Peter J., to Synchro-Start Products, Inc. Emergency manual actuation mechanism for a solenoid. 4,679,017, 7-7-87, Cl. 335-164.000.
Mishonov, Michail T.: *See*—
Hadjiiski, Anatoli M.; Varbanov, Hristo P.; Mishonov, Michail T.; Stamov, Vladimir P.; Savov, Rosen P.; Radenkov, Stranil K.; Panev, Vladimir B.; and Velev, Alexander S., 4,638,607, Cl. 52-79.900.
Mishra, Anupama: *See*—
Dekeyser, Mark A.; Mishra, Anupama; and Moore, Richard C., 4,670,555, Cl. 544-68.000.
Mishra, Satchidanand; and Teuscher, Leon A., to Xerox Corporation. Electrical resistor. 4,634,756, 1-6-87, Cl. 528-38.000.
Mishra, Satchidanand, and Teuscher, Leon A., to Xerox Corporation. Photoreceptor containing selenium particles coated with a reaction product of a hydrolyzed silane. 4,639,402, 1-27-87, Cl. 430-58.000.
Mishra, Satchidanand, to Xerox Corporation. Liquid carrier reclaiming apparatus. 4,687,319, 8-18-87, Cl. 355-10.000.
Mishuku, Toshio: *See*—
Hayashi, Yutaka; Iida, Hideyo; and Mishuku, Toshio, 4,644,091, Cl. 136-259.000.
Hayashi, Yutaka; Mishuku, Toshio; Yamanaka, Mitsuyuki; and Iida, Hideyo, 4,694,116, Cl. 136-256.000.
Iida, Hideyo; Mishuku, Toshio; and Shiba, Nobuyasu, 4,675,469, Cl. 136-259.000.
Misic, George J.; Lillo, Aarne; Patrick, John L.; and Holland, G. Neil, to Picker International, Inc. Nuclear magnetic resonance radio frequency antenna. 4,634,980, 1-6-87, Cl. 324-322.000.
Misic, George J., to Picker International, Inc. Interface system for NMR spectrometer and quadrature probe. 4,684,895, 8-4-87, Cl. 324-322.000.
Mistorny, Alfons: *See*—
Eriksson, Bertil F. H.; Helgstrand, Ake J. E.; Mistorny, Alfons; Stening, Goran B.; and Stridh, Stig A., 4,665,062, Cl. 514-120.000.
Misiura, Konrad: *See*—
Stec, Wojciech; Kinas, Ryszard; and Misiura, Konrad, 4,684,742, Cl. 558-81.000.
Miska, Aivars: *See*—
Locke, David R.; and Miska, Aivars, 4,700,476, Cl. 30-43.910.
Miskel, John J., Jr.: *See*—
Lipowski, Stanley A.; Villa, Jose L.; Miskel, John J., Jr.; and Grinstein, Reuben H., 4,634,451, Cl. 44-51.000.
Miskiewicz, Leonard A. Water-closet valve. 4,656,677, 4-14-87, Cl. 4-395.000.
Misko, Robert J., to American Sterilizer Company. Anti-splash drain fixture. 4,652,284, 3-24-87, Cl. 55-189.000.
Misley, Attila: *See*—
Perjes, Istvan; Szporny, Laszlo; Selmeczi, Andras; Vereczkey, Laszlo; Klebovich, Imre; Toth, Edit; Hajos, Gyorgy; Torley, Jozsef; Simon, Ferenc; Sarkozy, Peter; and Misley, Attila, 4,659,712, Cl. 514-249.000.
Mislin, Roland: *See*—
Benguerel, Francois; and Mislin, Roland, 4,685,934, Cl. 8-684.000.
Misner, Raymond H.: *See*—
Evans, Alfred J.; Misner, Raymond H.; Gallion, James A.; and Harrod, Melvin L., 4,675,945, Cl. 17-33.000.
Misra, Chanakya, to Aluminum Company of America. Adsorbent and substrate products and method of producing same. 4,656,156, 4-7-87, Cl. 502-415.000.
Misra, Chanakya: *See*—
The, Paul J.; and Misra, Chanakya, 4,676,959, Cl. 423-130.000.
The, Paul J.; and Misra, Chanakya, 4,678,477, Cl. 23-305.00A.
Misra, Manoranjan: *See*—
Milier, Jan D.; and Misra, Manoranjan, 4,676,804, Cl. 44-1.00R.
Misra, Raj N., to E. R. Squibb & Sons, Inc. Arachidonic acid analogs. 4,714,714, 12-22-87, Cl. 514-572.000.
Misra, Renuka, to United States of America, Health and Human Services. Water soluble derivatives of fredericamycin A. 4,673,678, 6-16-87, Cl. 514-278.000.
Misra, Sudhan S.: *See*—
Brecht, William B.; and Misra, Sudhan S., 4,683,647, Cl. 29-623.200.
Misra, Vikram: *See*—
Silversides, David W.; Mapletoft, Reuben J.; Murphy, Bruce D.; and Misra, Vikram, 4,676,981, Cl. 424-85.000.
Missel GmbH & Co.: *See*—
Ruoff-Schafer, Rudolf, 4,642,253, Cl. 428-36.000.
Misselbrook, John: *See*—
Shulver, Roderick L.; Misselbrook, John; and Standen, Robert, 4,692,988, Cl. 29-458.000.
Missele, Carl: *See*—
Kwitkowski, Peter A.; Nanni, Peter; Missele, Carl; O'Shea, Norman E.; and Pirih, Anthony M., 4,703,289, Cl. 333-1.100.
Misselhorn, Donald J.: *See*—
Brown, David S.; Forry, John S.; Mentzer, Nancy E.; and Misselhorn, Donald J., 4,676,937, Cl. 264-42.000.
Long, Harry F.; Misselhorn, Donald J.; and Tomchany, Michael, 4,656,063, Cl. 427-420.000.
Misselhorn, Klaus; and Tegtmeier, Uwe. Method to separate polar organic compounds, in particular aliphatic alcohols, from fermentation fluids. 4,715,932, 12-29-87, Cl. 203-43.000.
Missert, William: *See*—
Bellavia, William D.; and Missert, William, 4,710,127, Cl. 433-215.000.
Missier, Gabriele. Powder distributor for electrostatic painting. 4,688,518, 8-25-87, Cl. 118-626.000.
Mississippi Power Company: *See*—
Blackshaw, Andrew L.; and Robinson, Glen P., Jr., 4,646,538, Cl. 62-238.700.
Tuck, Morris B., 4,647,296, Cl. 55-2.000.
Missout, Bernard M.; Michaux, Jean-Pierre; and Piova, Jean-Luc, to Societe Anonyme de Telecommunications; and Societe Industrielle de Liaisons Electriques. Device for dispensing optical fibers into helical grooves of a ring. 4,635,430, 1-13-87, Cl. 57-6.000.
Mr. Gasket Company: *See*—
Browning, James R., 4,660,345, Cl. 52-648.000.
Mistral Windsurfing AG: *See*—
Prade, Ernstfried, 4,671,199, Cl. 114-39.000.
Mistry, Kantilal, to Blonder-Tongue Laboratories, Inc. Television picture and sound scrambler and method. 4,682,359, 7-21-87, Cl. 380-7.000.
Mistry, Keku M.: *See*—
Steigerwald, Robert L.; and Mistry, Keku M., 4,685,040, Cl. 363-17.000.
Steigerwald, Robert L.; and Mistry, Keku M., 4,695,934, Cl. 363-17.000.
Mistry, Kishor K.: *See*—
Symes, Kenneth C.; Langley, John; and Mistry, Kishor K., 4,705,825, Cl. 524-732.000.
Mistyurik, John D., to Monarch Marking Systems, Inc. Hand-held labeler. 4,668,326, 5-26-87, Cl. 156-384.000.
Misu, Takahiro; and Nakagawa, Fumio, to Aisin Seiki Kabushiki Kaisha. Hydraulic torque converter. 4,665,693, 5-19-87, Cl. 60-330.000.
Misu, Yoko: *See*—
Imaki, Naoshi; Haji, Junzo; and Misu, Yoko, 4,667,047, Cl. 556-469.000.
Misumi, Akira, to Hitachi, Ltd. Directly heated cathode. 4,636,681, 1-13-87, Cl. 313-346.00R.
Misumi, Akira; Hirai, Ryoji; and Watanabe, Rikizo, to Hitachi, Ltd.; and Hitachi Metals, Ltd. Color picture tube with shadow mask. 4,713,576, 12-15-87, Cl. 313-402.000.
Misumi, Haruo: *See*—
Oimura, Katsuhiko; Misumi, Haruo; Ogawa, Hiroshi; and Nagao, Naotake, 4,675,518, Cl. 250-205.000.
Misumi, Kozo: *See*—
Kamiya, Takeshi; Matsuura, Kazuo; Miyoshi, Mituji; Misumi, Kozo; Kadomatsu, Seiji; and Nose, Shinji, 4,652,616, Cl. 525-331.700.
Yamaoka, Noboru; Yokoyama, Shigeki; Matsuura, Kazuo; Misumi, Kozo; Watanabe, Junichi; and Kadomatsu, Seiji, 4,704,439, Cl. 525-334.100.
Misumi, Masanori: *See*—
Oda, Hiroyuki; Nagao, Akihito; Misumi, Masanori; Yamashita, Akinori; and Okazaki, Katsumi, 4,714,063, Cl. 123-308.000.
Yamashita, Akinori; Hataoka, Kenji; Hashimoto, Noboru; and Misumi, Masanori, 4,658,792, Cl. 123-478.000.
Misumi, Masao, to Oval Engineering Co., Ltd. Vortex flow meter. 4,683,760, 8-4-87, Cl. 73-861.220.
Misumi, Shikao: *See*—
Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,669,964, Cl. 425-34.00R.
Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,695,234, Cl. 425-23.000.
Misumi, Shunjiro: *See*—
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.
Misumi, Teruo, to Canon Kabushiki Kaisha. Plasma CVD apparatus. 4,707,210, 11-17-87, Cl. 156-345.000.

Misumi, Teruo: *See*—
Nakagawa, Katsumi; Komatsu, Toshiyuki; Hirai, Yutaka; Misumi, Teruo; and Fukuda, Tadaji, 4,670,369, Cl. 430-128.000.
Ogawa, Kyosuke; Shirai, Shigeru; Kanbe, Junichiro; Saitoh, Keishi; Osato, Yoichi; and Misumi, Teruo, 4,636,450, Cl. 430-84.000.
Ogawa, Kyosuke; Shirai, Shigeru; Saitoh, Keishi; Misumi, Teruo; and Kanbe, Junichiro, 4,637,972, Cl. 430-84.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,650,736, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,675,263, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,678,733, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,881, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,882, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,883, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,696,884, Cl. 430-58.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,392, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,393, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,730, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,731, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,732, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,733, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,734, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,735, Cl. 430-57.000.

Misumi, Teruyuki: *See*—
Hayashi, Yoshiharu; and Misumi, Teruyuki, 4,708,734, Cl. 71-100.000.

Misuna, Yoshihiro: *See*—
Yasukawa, Akio; and Misuna, Yoshihiro, 4,672,825, Cl. 66-194.000.

Misura, Michael S., to PPG Industries, Inc. Internally colored polyol (allyl carbonate) polymerizates. 4,666,976, 5-19-87, Cl. 524-739.000.

Mita, Hideo; and Kurazono, Shuichi, to Aisin Seiki Kabushiki Kaisha. Radiator device. 4,705,097, 11-10-87, Cl. 165-4.000.

Mita Industrial Co., Ltd.: *See*—
Akiyama, Kazunori; Tsunoda, Arihiro; and Tanaka, Satoshi, 4,678,178, Cl. 271-242.000.
Fujii, Masanori; Honda, Nobuyasu; Horiuchi, Akira; and Kubo, Masahiko, 4,665,001, Cl. 430-106.000.
Fushida, Akira; Matsui, Toshikazu; Hasegawa, Yuuji; Maeda, Masahiko; Tsuji, Nobuyuki; Horiuchi, Akira; and Yukitake, Kazunori, 4,652,510, Cl. 430-122.000.
Hisajima, Masahiko; Shigemura, Yutaka; Makiura, Yoshinori; and Ishito, Mitsuya, 4,673,283, Cl. 355-14.0SH.
Honda, Nobuyasu; Fujii, Masanori; and Kubo, Masahiko, 4,645,729, Cl. 430-126.000.
Horihata, Katsushi; and Kawamori, Yoshizo, 4,713,672, Cl. 346-108.000.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,636,057, Cl. 355-3.00R.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,283, Cl. 355-3.0DD.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,285, Cl. 355-8.000.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,714,338, Cl. 355-3.0FU.
Ikuta, Yoshihisa, 4,655,577, Cl. 355-3.00R.
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,668,076, Cl. 355-15.000.
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,674,859, Cl. 355-3.0FU.
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,685,792, Cl. 355-3.0SH.
Kai, Masami; Kurando, Shigeo; Katafuchi, Toshinobu; Amakawa, Katsumi; and Kajitani, Tetsuji, 4,659,206, Cl. 355-3.0DR.
Kajita, Hiroshi; Ujino, Koji; and Uehara, Yoshiyuki, 4,697,911, Cl. 355-3.0SH.
Kamezaki, Yasushi, 4,672,017, Cl. 430-122.000.
Katsuragi, Koji; Ozaki, Hirofumi; Kawahara, Yoshihiro; Matsumoto, Hideki; Tomoe, Tetsuro; and Kobayashi, Kazuhiro, 4,687,357, Cl. 400-208.000.
Kimura, Shigeki, 4,686,545, Cl. 346-160.000.
Kozuka, Nobuhiko; Koyama, Shigeo; and Kano, Atsushi, 4,640,604, Cl. 355-3.00R.
Maekawa, Kouji, 4,633,808, Cl. 118-658.000.
Matsui, Toshikazu; Fushida, Akira; Honda, Nobuyasu; Nakao, Minoru; and Tsuji, Nobuyuki, 4,686,935, Cl. 118-658.000.
Matsushita, Mitsuo, 4,695,153, Cl. 355-3.0DD.
Miyoshi, Yoshitake, 4,702,587, Cl. 355-3.00R.
Morimoto, Kiyoshi, Kawamoto, Masuo; Kobayashi, Hiroshi; Hashizume, Masahiro; Tsuzaka, Hideaki; and Kimura, Hiroshi, 4,692,019, Cl. 355-8.000.
Morimoto, Teruyo; Sano, Yumiko; Nimura, Eiji; Tomii, Yuji; and Maeda, Tatsuo, 4,701,389, Cl. 430-110.000.
Nishimura, Kozo, 4,704,554, Cl. 310-72.000.
Sano, Yumiko; and Morimoto, Teruyo, 4,634,646, Cl. 430-31.000.
Sasaki, Kouichi; Tsudaka, Hideaki; Namba, Satoshi; Abe, Yuji; and Yoshinaga, Shinsuke, 4,647,178, Cl. 355-3.00R.
Satonaka, Shinobu; Takahashi, Masanobu; Wakikaido, Takahiro; and Yoshioka, Masahiro, 4,708,470, Cl. 355-77.000.
Shibata, Kiyoshi; and Shigemura, Yutaka, 4,708,456, Cl. 355-3.0SH.
Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,642,448, Cl. 219-216.000.
Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,650,347, Cl. 374-141.000.
Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,668,075, Cl. 355-14.0SH.
Shigemura, Yutaka; Makiura, Yoshinori; and Ishito, Mitsuya, 4,671,643, Cl. 355-3.0FU.
Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, 4,671,644, Cl. 355-3.00R.
Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, 4,693,586, Cl. 355-3.0SH.
Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, 4,711,550, Cl. 355-3.0SH.
Takemura, Yoshinobu; Kawamoto, Masuo; Hashizume, Masahiro; and Nagata, Katsumi, 4,659,214, Cl. 355-75.000.
Uemori, Satoshi, 4,671,503, Cl. 271-65.000.
Watanabe, Toshio; Tsutsui, Eiji; and Tsunoda, Arihiro, 4,710,017, Cl. 355-8.000.

Mita, Ryuichi; Katoh, Toshio; Higuchi, Chojiro; and Yamaguchi, Akihiro, to Mitsui Toatsu Chemicals, Incorporated. Preparation process of N-acylphenylalanines. 4,675,439, 6-23-87, Cl. 562-443.000.

Mita, Seiichi; Izumita, Morishi; Michikawa, Yuichi; Katayama, Hitoshi; Shiono, Hiroshi; Takagi, Hitoshi; Rokuda, Morito; and Doi, Nobukazu, to Hitachi, Ltd. Apparatus for regenerating original signals. 4,682,115, 7-21-87, Cl. 328-164.000.

Mita, Seiichi: *See*—
Doi, Nobukazu; Izumita, Morishi; Mita, Seiichi; Eto, Yoshizumi; and Rokuda, Morito, 4,653,052, Cl. 371-39.000.
Eto, Yoshizumi; Umemoto, Masuo; Kanada, Hidehiro; and Mita, Seiichi, 4,698,811, Cl. 371-38.000.
Izumita, Morishi; Mita, Seiichi; Umemoto, Masuo; Kanada, Hidehiro; and Rokuda, Morito, 4,661,956, Cl. 371-38.000.
Umenoto, Masuo; Mita, Seiichi; Izumita, Morishi; Michikawa, Yuuichi; Rokuda, Morito; Katayama, Hitoshi; and Kanada, Hidehiro, 4,670,797, Cl. 358-310.000.

Mita, Tsunemasa; Katoh, Ryoki; Sekimoto, Soichi; Shiratsuki, Yoshiyuki; and Arisawa, Hiroshi, to Fuji Xerox Co., Ltd. Leadless chip carrier and process for fabrication of same. 4,697,204, 9-29-87, Cl. 357-74.000.

Mita, Yoshinobu; and Ikeda, Yoshinori, to Canon Kabushiki Kaisha. Image data monitor apparatus. 4,653,111, 3-24-87, Cl. 382-69.000.

Mita, Yoshinori: *See*—
Takahashi, Shinji; and Mita, Yoshinori, 4,715,465, Cl. 180-225.000.

Mitadera, Takashi; Shirai, Tetsuaki; Nakagawa, Tomozo; Nii, Naotake; and Watanabe, Kozo, to Kawasaki Jukogyo Kabushiki Kaisha. Lubricating system for horizontal cylinder overhead valve engine. 4,688,529, 8-25-87, Cl. 123-196.00R.

Mitake, Kenjiro, to NEC Corporation. Output circuit having an improved protecting circuit. 4,675,950, 7-7-87, Cl. 307-550.000.

Mitaki, Kazuya: *See*—
Murakami, Tomomi; Kihara, Hiroyuki; and Mitaki, Kazuya, 4,668,100, Cl. 368-10.000.

Mitamura, Katsuaki: *See*—
Suga, Shigeru; Chaki, Kiyoshi; Natori, Etsuji; Suga, Shigeo; and Mitamura, Katsuaki, 4,704,903, Cl. 73-159.000.

Mitamura, Masahiro: *See*—
Kumazawa, Kiyotake; Minamide, Noriaki; Moribe, Yoshihiro; Takahashi, Mikio; Beppu, Osamu; and Mitamura, Masahiro, 4,703,242, Cl. 318-685.000.

Mitamura, Mitsuru: *See*—
Odasima, Suzuo; Hida, Takao; and Mitamura, Mitsuru, 4,687,333, Cl. 356-382.000.

Mitamura, Ryota: *See*—
Yanagimoto, Shigeru; and Mitamura, Ryota, 4,664,175, Cl. 164-455.000.

Mitani, Hiroshi: *See*—
Gotou, Makoto; Mitani, Hiroshi; and Igarashi, Yoshiaki, 4,713,697, Cl. 358-222.000.

Mitani, Ikujirou; Kawanami, Norihide; and Kobayashi, Fumio, to Hirose Electric Co., Ltd. L-type coaxial plug connector. 4,678,261, 7-7-87, Cl. 439-582.000.

Mitani, Kazuo; Hirota, Yoshiharu; Kumagai, Shinobu; Komori, Shigeki; and Tsuru, Masahiro, to Nippon Kokan Kabushiki Kaisha. Flow stop control method and apparatus for casting withdrawal control of horizontal continuous casting machine. 4,660,618, 4-28-87, Cl. 164-454.000.

Mitani, Kazutami: *See*—
Itoh, Hajime; and Mitani, Kazutami, 4,678,813, Cl. 521-61.000.
Itoh, Hajime; and Mitani, Kazutami, 4,695,592, Cl. 521-54.000.

Mitani, Kazuto: *See*—
Tsuru, Masahiro; and Mitani, Kazuto, 4,651,803, Cl. 164-454.000.

Mitani, Kazuyuki: *See*—
Ikezaki, Yasuo; Matsuoka, Tadashi; and Mitani, Kazuyuki, 4,712,334, Cl. 51-262.00A.

Mitani, Kiyoharu; Morohashi, Kazuo; Yamada, Kenji; Gonda, Tsunemi; and Mizutani, Hideo, to Nippon Kogaku K. K. Apparatus for measuring optical characteristics of optical systems. 4,641,964, 2-10-87, Cl. 356-124.000.

Mitani, Masahiro, to Brother Kogyo Kabushiki Kaisha. Record carrier feed device. 4,666,322, 5-19-87, Cl. 400-639.000.

Mitani, Naoyuki: *See*—
Nagao, Shozo; Mitani, Naoyuki; and Nakagawa, Teruyuki, 4,676,905, Cl. 210-646.000.

Mitani, Nobuhiro: *See*—
Kitamura, Yuji; and Mitani, Nobuhiro, 4,649,407, Cl. 357-24.000.

Mitani, Satoru: *See*—
Youda, Hiroshi; Kaminaka, Nobuyuki; and Mitani, Satoru, 4,663,683, Cl. 360-113.000.

Mitani, Tadayuki; Endo, Mamoru; and Hiramoto, Takashi, to Daicel Chemical Industries, Ltd. Process for producing glyoxylic acid. 4,698,441, 10-6-87, Cl. 562-531.000.

Mitani, Tatsuro: *See*—
Inoue, Kazuhiko; Mitani, Tatsuro; and Kishita, Yoshihiro, 4,695,869, Cl. 357-71.000.
Kishita, Yoshihiro; Furukawa, Motoki; and Mitani, Tatsuro, 4,650,543, Cl. 156-643.000.
Kishita, Yoshihiro; Furukawa, Motoki; and Mitani, Tatsuro, 4,674,174, Cl. 29-578.000.

Mitani, Tetsuo; Baba, Fumiaki; and Iisaka, Katsuyoshi, to Mitsubishi Denki Kabushiki Kaisha. Resin composition. 4,687,801, 8-18-87, Cl. 524-104.000.

Mitani, Tomomasa; and Mihata, Ichiro, to Dainippon Ink and Chemicals, Inc. Fluoroolefin copolymer, process for production thereof and composition containing said copolymer. 4,640,966, 2-3-87, Cl. 526-249.000.

Mitani, Tomomasa; and Mihata, Ichiro, to Dainippon Ink and Chemicals, Inc. Fluoroolefin copolymer, process for production thereof and composition containing said copolymer. 4,690,968, 9-1-87, Cl. 524-315.000.

Mitani, Toragoro: *See*—
Nakashima, Toshimitsu; Okada, Wataru; and Mitani, Toragoro, 4,713,443, Cl. 528-499.000.

Mitani, Tsutomu: *See*—
Kurokawa, Hideo; Mitani, Tsutomu; and Yonezawa, Taketoshi, 4,645,977, Cl. 315-111.210.

Mitani, Wataru: *See*—
Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, 4,678,731, Cl. 430-65.000.
Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, 4,713,308, Cl. 430-65.000.

Mitarai, Akira; and Kubota, Kunio, to Sharp Kabushiki Kaisha. Program modification system in an electronic cash register. 4,688,173, 8-18-87, Cl. 364-405.000.

Mitarai, Tsuyoshi, to Casio Computer Co., Ltd. Automatic music playing apparatus. 4,655,112, 4-7-87, Cl. 84-1.030.

Mitch, John H., to Tektronix, Inc. Method of aligning an optical fiber with a light emitter via directing light toward light emitter acting as a detector. 4,677,290, 6-30-87, Cl. 250-227.000.

Mitchell, Allan T.; and Paterson, James L., to Texas Instruments Incorporated. Method for fabricating EPROM array. 4,713,142, 12-15-87, Cl. 156-653.000.

Mitchell, Arthur W. Chimney cowls. 4,638,727, 1-27-87, Cl. 98-79.000.

Mitchell, Arthur W. Gas or vapor dispersing apparatus. 4,694,604, 9-22-87, Cl. 43-114.000.

Mitchell, Brian, to Amphenol Corporation. Grommet for connectors. 4,697,861, 10-6-87, Cl. 439-271.000.

Mitchell, Bruce R.; and Vogel, Roger F., to Chevron Research Company. Vanadium passivation in a hydrocarbon catalytic cracking process. 4,707,461, 11-17-87, Cl. 502-64.000.

Mitchell, Charles A.; Wawro, Thaddeus J.; Whipple, Charles E.; and Wright, William E., Sr., to Carrier Corporation. Molded drain connection with insert. 4,679,405, 7-14-87, Cl. 62-285.000.

Mitchell, Charles B., to Span America Medical Systems, Inc. Mattress cushion with securement feature. 4,686,725, 8-18-87, Cl. 5-481.000.

Mitchell, Christopher: *See*—
Markle, Wilson; and Mitchell, Christopher, 4,710,805, Cl. 358-81.000.

Mitchell, Curtis W.; and Johnson, Barry C., to Motorola Inc. Gold metallization process. 4,702,941, 10-27-87, Cl. 427-250.000.

Mitchell, Curtis W.: *See*—
Berg, Howard M.; and Mitchell, Curtis W., 4,653,847, Cl. 350-96.200.

Mitchell, Dan E. Underwater breathing apparatus. 4,674,493, 6-23-87, Cl. 128-202.140.

Mitchell, David: *See*—
McCallum, Robert; and Mitchell, David, 4,662,300, Cl. 114-259.000.

Mitchell, David C. Substituted fructose compounds and vitamin supplements and methods for making same. 4,705,875, 11-10-87, Cl. 556-46.000.

Mitchell, David H.; and Mitchell, Ralph M., to Sensor Diagnostics, Inc. Measurement of ligand/anti-ligand interactions using bulk conductance. 4,713,347, 12-15-87, Cl. 436-501.000.

Mitchell, David J.; and Zboril, Vaclav G., to Du Pont Canada Inc. Reduction of isomerization in solution process for polymerization of alpha-olefins. 4,701,504, 10-20-87, Cl. 526-83.000.

Mitchell, Debra J., to Ernest H. McCoy. Formed and washable diaper. 4,704,117, 11-3-87, Cl. 604-391.000.

Mitchell, Donald J.: *See*—
Gillispie, John G.; and Mitchell, Donald J., 4,645,099, Cl. 222-472.000.

Mitchell, Donald L., to United States of America, Navy. Test set for a navigational satellite receiver. 4,641,254, 2-3-87, Cl. 364-580.000.

Mitchell, Edward: *See*—
Jenkins, Robert H., Jr.; Mitchell, Edward; Gaetani, Frank J.; Mahusky, John J.; and Hall, Marilyn, 4,713,087, Cl. 44-53.000.
Snyder, Thomas S.; Burgman, Herbert A.; and Mitchell, Edward, 4,715,992, Cl. 252-628.000.

Mitchell, Emile. Magnetic driven motor. 4,642,534, 2-10-87, Cl. 318-138.000.

Mitchell, Francoise E. L., to Tidy Chain Pty. Ltd. Article storage and display device. 4,690,288, 9-1-87, Cl. 211-113.000.

Mitchell, Frank R. Hypocyclic drive. 4,665,771, 5-19-87, Cl. 74-788.000.

Mitchell, Gary A.; Jaffe, Gerald E.; and Solorzano, Marilyn M., to Coulter Electronics, Inc. Water soluble xanthylium derivatives substrates. 4,694,070, 9-15-87, Cl. 530-329.000.

Mitchell, Glen R.: *See*—
Anthony, Bruce O., Jr.; Batalden, Glenn D.; Mitchell, Glen R.; Schloss, Phillip C.; and Wells, David K., 4,709,328, Cl. 364-200.000.

Mitchell, Gordon L.: *See*—
Lenz, James E.; and Mitchell, Gordon L., 4,634,977, Cl. 324-244.000.

Mitchell, Gregory N.; and Wilson, Ronald A., to United States of America, Navy. Drag stabilizer. 4,637,570, 1-20-87, Cl. 244-1.0TD.

Mitchell, Hal D.; and Walker, Donald R., to Figgie International Inc. Shoulder pad truss arch system. 4,679,253, 7-14-87, Cl. 2-2.000.

Mitchell, Hal D.; and Walker, Donald R., to Figgie International Inc. Shoulder pad spring arch system. 4,680,814, 7-21-87, Cl. 2-2.000.

Mitchell, Hal D.; and Gardner, James D., to Figgie International Inc. Football jersey. 4,698,849, 10-13-87, Cl. 2-115.000.

Mitchell, Hal D.; and Walker, Donald R., to Figgie International Inc. Shoulder pad. 4,715,066, 12-29-87, Cl. 2-2.000.

Mitchell, Henry W.: *See*—
McMillan, Thomas A.; Mitchell, Henry W.; and Cecil, Alvin S., 4,639,710, Cl. 338-108.000.
Patipa, Michael; McMillan, Thomas A.; and Mitchell, Henry W., 4,644,952, Cl. 128-305.000.

Mitchell, J. Brooks: *See*—
Peters, Gilbert A.; and Mitchell, J. Brooks, 4,661,806, Cl. 340-568.000.

Mitchell, James L., to Rogers Tool Works, Inc. Quick change tool holder. 4,655,631, 4-7-87, Cl. 403-349.000.

Mitchell, James W.: *See*—
Bentle, Larry A.; Mitchell, James W.; and Storrs, Stephen B., 4,652,630, Cl. 530-344.000.
Bentle, Larry A.; Mitchell, James W.; Storrs, Stephen B.; and Shimamoto, Grant T., 4,694,073, Cl. 530-399.000.
Quick, James R.; Mitchell, James W.; and Cooley, Dennis A., 4,713,510, Cl. 219-10.55E.

Mitchell, Jeffrey W.: *See*—
Bomba, Frank C.; Bhandarkar, Dileep P.; Grady, J. J., III; Lackey, Stanley A., Jr.; Mitchell, Jeffrey W.; and Schumann, Reinhard, 4,648,030, Cl. 364-200.000.

Mitchell, Joan L.: *See*—
Anderson, Karen L.; Mitchell, Joan L.; Pennebaker, William B.; and Goertzel, Gerald, 4,646,356, Cl. 382-56.000.
Anderson, Karen L.; and Mitchell, Joan L., 4,658,430, Cl. 382-46.000.

Mitchell, Joan L. V.; Anderson, Karen L.; and Mintzer, Frederick C., to International Business Machines Corporation. Image rotation method. 4,689,824, 8-25-87, Cl. 382-46.000.

Mitchell, John D.: *See*—
Ng, Yee Seung; Contois, Lawrence E.; Mitchell, John D.; and Walling, James D., 4,686,163, Cl. 430-47.000.

Mitchell, John P., to AT&T Bell Laboratories. Component mounting apparatus. 4,643,499, 2-17-87, Cl. 339-17.0CF.

Mitchell, John W., Jr., to Burroughs Corporation. Access device unit for installed pin grid array. 4,676,564, 6-30-87, Cl. 439-77.000.

Mitchell, John W., Jr., to Burroughs Corporation. Flexible access connector with miniature slotted pads. 4,703,984, 11-3-87, Cl. 439-70.000.

Mitchell, Joseph T., to Reed Manufacturing Company. Portable powered pipe working machine. 4,682,919, 7-28-87, Cl. 409-179.000.

Mitchell, Keith J.: *See*—
Anderson, Douglas E.; and Mitchell, Keith J., 4,650,408, Cl. 425-79.000.

Mitchell, Kenneth M.: *See*—
Angevine, Philip J.; Chu, Yung F.; Mitchell, Kenneth M.; Oleck, Stephen M.; Shih, Stuart S.; and Wilson, Robert C., Jr., deceased, 4,696,732, Cl. 208-111.000.
McGuiness, Mary P.; Mitchell, Kenneth M.; and Ware, Robert A., 4,647,368, Cl. 208-60.000.
Ngoc Le, Quang; McCarthy, Stephen J.; and Mitchell, Kenneth M., 4,689,312, Cl. 502-38.000.

Mitchell, Kim W., to Atlantic Richfield Company. Thin film cadmium telluride solar cell. 4,650,921, 3-17-87, Cl. 136-258.000.

Mitchell, Laymon. Conveyor dewatering system. 4,651,767, 3-24-87, Cl. 137-132.000.

Mitchell, Mark J.; Weber, Walter H.; and Stewart, David R., to Brighter Light Liturgical Furnishings, Inc. Electric votive light controller. 4,675,578, 6-23-87, Cl. 315-315.000.

Mitchell, Mark S.: *See*—
Navratil, Martin; Mitchell, Mark S.; and Sovak, Mojmir, 4,663,367, Cl. 523-130.000.

Mitchell, Maurice E. Educational device and method. 4,650,424, 3-17-87, Cl. 434-211.000.

Mitchell, Michael D.: *See*—
Cobb, R. Lynn; and Mitchell, Michael D., 4,668,296, Cl. 106-188.000.

Mitchell, Olan W.: *See*—
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Mitchell, Wayne R., to SWM Corporation. Rotary cutter apparatus. 4,664,006, 5-12-87, Cl. 83-341.000.

Mitchell, Wilburn H. Public transport vehicle seat slip cover brochure holder displaying non-removable advertising brochures. 4,650,103, 3-17-87, Cl. 224-275.000.

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Lewis, Conrad, 4,685,102, Cl. 370-15.000.
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B., to Minnesota Mining and Manufacturing Company. dental treatment using poly(ethylenically unsaturated) isocyanurates and dental materials made therewith. -10-87, Cl. 433-201.100.
B.; and Mitra, Smarajit, to Minnesota Mining and Manu- Company. Copolymerizable UV stabilizers. 4,691,059, 568-333.000.
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D. Keith; Reed, Andrew M.; Askill, Ian N.; and Briana, G., 4,704,130, Cl. 623-66.000.
Nicholas M. Rhenium lined Geiger-Mueller tube. -4-87, Cl. 250-374.000.
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a, Akira; Yamada, Masahide; Kitada, Katsuyoshi; Otuka, shi; and Kanematsu, Etsuro, 4,700,026, Cl. 200-19.00R. akashi; Yamada, Nobuo; Mada, Yoshikazu; and Iizima, 4,705,977, Cl. 310-235.000.
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Goto, Shigeru; Asano, Masaru; Ishida, Matsuhiko; and Inoue, Shosaku, 4,681,207, Cl. 198-333.000.
Gotoh, Hitoshi, 4,658,164, Cl. 310-89.000.
Gotoh, Hitoshi, 4,659,950, Cl. 310-59.000.
Gotoh, Tohru, 4,643,346, Cl. 228-155.000.
Hagihara, Shiro; Tsutani, Sadahiro; and Maeda, Yoichiro, 4,702,331, Cl. 180-9.320.
Hagino, Hiroyasu, 4,662,957, Cl. 148-188.000.
Hara, Tadayuki, 4,634,096, Cl. 251-129.150.
Hara, Zenichirou; and Iwamoji, Ichirou, 4,707,838, Cl. 375-109.300.
Haruta, Kenryu; Wakato, Hitoshi; Sato, Yukio; Nagai, Haruhiko; Nakatani, Hajime; and Kita, Hideki, 4,686,682, Cl. 372-87.000.
Hasegawa, Kazuo; and Fujiwara, Osamu, 4,670,866, Cl. 369-36.000.
Hasegawa, Tadashi, 4,710,833, Cl. 360-105.000.
Hashimoto, Yasuhiko, 4,667,483, Cl. 62-262.000.
Hattori, Shinichi, 4,665,493, Cl. 364-474.000.
Hattori, Shinichi, 4,706,208, Cl. 364-513.000.
Hayakawa, Masaharu, 4,638,394, Cl. 360-137.000.
Hayakawa, Yoshitaka, 4,645,902, Cl. 219-125.110.
Hayashi, Shigeo, 4,706,178, Cl. 363-98.000.
Hayashida, Takahiro, 4,687,978, Cl. 318-599.000.
Hida, Toshihiko, 4,673,894, Cl. 360-85.000.
Higashino, Shigenori, 4,695,932, Cl. 363-14.000.
Higuchi, Keizo, 4,679,027, Cl. 340-723.000.
Higuchi, Keizo, 4,707,690, Cl. 340-750.000.
Hine, Shiro; and Ishikura, Hidenobu, 4,667,392, Cl. 29-572.000.
Hine, Shiro, 4,716,559, Cl. 369-112.000.
Hirabayashi, Kazuo; and Yamamoto, Makoto, 4,707,717, Cl. 357-23.110.
Hirano, Ryuichi, 4,637,645, Cl. 148-171.000.
Hirao, Tadashi, 4,651,016, Cl. 250-578.000.
Hirao, Tadashi, 4,661,166, Cl. 148-1.500.
Hirao, Tadashi; and Mackawa, Shigeto, 4,665,422, Cl. 357-30.000.
Hirao, Tadashi, 4,665,424, Cl. 357-34.000.
Hirao, Tadashi, 4,691,436, Cl. 437-33.000.
Hirao, Tadashi, 4,709,469, Cl. 437-63.000.
Hirao, Toshiki, 4,649,303, Cl. 310-52.000.
Hirata, Seiichiro, 4,698,176, Cl. 364-449.000.
Hironaki, Yoshihiko; and Takata, Nobuharu, 4,637,296, Cl. 98-1.000.
Hirosaki, Yoshihiko, 4,644,238, Cl. 318-332.000.
Hirota, Jitsuho; Machida, Kazumichi; and Watanabe, Noriko, 4,705,204, Cl. 228-179.000.
Hitoshi, Yamazaki; Takao, Takeda; Shizuo, Nakano; Kouji, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,659,552, Cl. 313-493.000.
Honda, Yoshiyuki; Esaki, Mitsunobu; Minagawa, Yoshiji; Uemura, Kazuhiro; and Inoue, Masahiro, 4,665,544, Cl. 379-104.000.
Honjo, Kenji; and Nakamura, Tooru, 4,667,116, Cl. 307-64.000.
Hori, Toshimitsu; and Sumita, Mitsutaka, 4,644,124, Cl. 219-69.00M.
Hosaka, Shuroku; and Shiga, Masaaki, 4,691,260, Cl. 360-121.000.
Hoshinouchi, Susumu; Kanaoka, Masaru; and Fukuda, Atsushi, 4,689,466, Cl. 219-121.00L.
Ichikawa, Toru, 4,700,290, Cl. 364-191.000.
Ichinose, Katsuki; and Shinohara, Hirofumi, 4,709,354, Cl. 365-226.000.
Ichioka, Youichi, 4,685,536, Cl. 187-101.000.
Ichioka, Youichi, 4,690,243, Cl. 187-101.000.
Ida, Yoshiaki, 4,644,153, Cl. 250-225.000.
Ida, Yoshiaki, 4,669,572, Cl. 356-43.000.
Ide, Nobuhiro, 4,704,039, Cl. 384-464.000.
Ido, Kihei, 4,636,877, Cl. 360-51.000.
Ieki, Hiroshi, 4,634,925, Cl. 313-454.000.
Iijima, Hitoshi; Tanaka, Naoki; and Ikeuchi, Masaki, 4,671,075, Cl. 62-196.100.
Iijima, Hitoshi; and Hama, Hiroaki, 4,672,822, Cl. 62-468.000.
Iio, Masaya, 4,712,152, Cl. 361-56.000.
Iio, Takasu; and Egusa, Sumio, 4,700,271, Cl. 361-355.000.
Ikeda, Kosaku, 4,634,819, Cl. 200-16.00A.
Ikejima, Hiroyuki, 4,681,391, Cl. 187-119.000.
Imai, Hiroshi; and Yoshioka, Kouichi, 4,710,830, Cl. 360-97.000.
Imai, Michio, 4,675,719, Cl. 357-75.000.
Imanishi, Kazuo, 4,661,912, Cl. 364-474.000.
Imori, Hideo; and Adachi, Katsumi, 4,683,390, Cl. 310-71.000.
Imori, Hideo; and Takahara, Toshiyuki, 4,686,399, Cl. 310-62.000.
Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Ohki, Masahiko; Komura, Tadashi; and Kobayashi, Norihide, 4,702,691, Cl. 418-55.000.
Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Ohki, Masahiko; Komura, Tadashi; and Kobayashi, Norihide, 4,702,692, Cl. 418-55.000.
Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Ohki, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,693, Cl. 418-55.000.
Inaba, Tsutomu; Komura, Tadashi; Kobayashi, Norihide; Sugihara, Masahiro; and Matsugi, Tetsuzo, 4,715,796, Cl. 418-55.000.
Irino, Etsuro, 4,682,357, Cl. 379-356.000.
Isahaya, Keiji, 4,689,709, Cl. 361-80.000.
Ishihara, Takashi; Okamura, Kazuhiro; and Nakamura, Genshiro, 4,638,109, Cl. 136-244.000.
Ishii, Kouichi; Muruganu, Susumu; Tabuchi, Mamoru; Nakamura, Masayuki; Baba, Toshihiko; and Ritoh, Naotake, 4,672,165, Cl. 219-97.000.
Ishii, Toshiaki, 4,673,062, Cl. 187-134.000.
Ishikura, Masami, 4,651,208, Cl. 360-48.000.
Itabashi, Yoshifumi; Ando, Toshiharu; Yasuda, Kazuo; and Tsuchihashi, Masaru, 4,652,597, Cl. 523-457.000.
Ito, Eizo, 4,707,725, Cl. 357-72.000.
Ito, Hideya, 4,700,105, Cl. 313-407.000.
Ito, Hiroshi; and Mizutani, Yoshiki, 4,706,113, Cl. 358-37.000.
Ito, Hisatsugu; and Ueta, Kousaku, 4,677,450, Cl. 364-449.000.
Ito, Sho; Horikoshi, Hiroshi; and Kasahara, Kumio, 4,652,121, Cl. 356-28.000.
Ito, Tomotaka; and Chonan, Katsuhiko, 4,654,773, Cl. 363-41.000.
Ito, Tomotaka, 4,672,285, Cl. 318-757.000.
Ito, Tomotaka, 4,716,513, Cl. 363-97.000.
Itoh, Hisatsugu; and Ueta, Kousaku, 4,677,563, Cl. 364-449.000.
Iwasaki, Masahiko; and Katto, Masayuki, 4,663,578, Cl. 318-762.000.
Iwata, Akihiko; Katou, Yoshiaki; and Mizuno, Masamori, 4,665,299, Cl. 219-130.210.
Iwata, Shigemi, 4,691,307, Cl. 187-117.000.
Iwata, Shigemi, 4,716,517, Cl. 364-148.000.
Iwata, Toshio; Komurasaki, Satoshi; and Ueda, Atsushi, 4,635,604, Cl. 123-425.000.
Iwata, Toshio; and Ueda, Atsushi, 4,637,245, Cl. 73-35.000.
Iwatani, Shiro, 4,641,372, Cl. 357-48.000.
Kajita, Takeyoshi, 4,707,774, Cl. 363-37.000.
Kajiwara, Yasuya, 4,658,599, Cl. 62-239.000.
Kajiyama, Ryuichi; and Takahashi, Ryoji, 4,677,437, Cl. 340-825.790.
Kamaike, Hiroshi, 4,640,389, Cl. 187-119.000.
Kamaike, Hirosui, 4,685,538, Cl. 187-121.000.
Kamota, Junichi, 4,704,688, Cl. 364-474.000.
Kamo, Kazuhiko; Suwahara, Hiroshi; and Nakane, Ryuji, 4,636,610, Cl. 219-124.020.
Kanamori, Osamu, 4,705,155, Cl. 198-335.000.
Kaneyuki, Kazutoshi, 4,643,046, Cl. 74-752.00C.
Kaneyuki, Kazutoshi, 4,651,082, Cl. 322-29.000.
Kaneyuki, Kazutoshi, 4,653,349, Cl. 74-796.000.
Kaneyuki, Kazutoshi, 4,679,456, Cl. 74-752.00D.
Kaneyuki, Kazutoshi, 4,685,355, Cl. 74-796.000.
Kanno, Yoshiaki; and Nishimura, Yukinobu, 4,683,539, Cl. 364-431.050.
Kasada, Toshio, 4,634,367, Cl. 431-29.000.
Kasada, Toshio, 4,682,946, Cl. 431-14.000.
Kasui, Yoshio, 4,706,214, Cl. 364-900.000.

Katagi, Takashi; Mano, Seiji; and Chiba, Isamu, 4,644,359, Cl. 342-379.000.
Katseka, Isaburou, 4,673,919, Cl. 340-365.00A.
Katayama, Kaneo; and Hashimoto, Yasuhiko, 4,679,494, Cl. 98-16.600.
Kato, Hisao, 4,636,699, Cl. 318-568.000.
Kato, Hisao, 4,637,775, Cl. 414-744.00R.
Kato, Hisao; and Sato, Akira, 4,668,157, Cl. 414-730.000.
Kato, Hisao, 4,673,329, Cl. 514-144.00A.
Kato, Kiyotaka; and Oshima, Michitaka, 4,648,024, Cl. 364-169.000.
Kato, Masayuki; and Sugishima, Eiichi, 4,666,480, Cl. 328-62.000.
Kawabata, Takao; and Higashino, Shigenori, 4,677,535, Cl. 363-65.000.
Kawabata, Takao, 4,703,193, Cl. 307-66.000.
Kawaguchi, Susumu; Hirahara, Takuhiro; Nakane, Kazuhiro; and Ueda, Sei, 4,636,152, Cl. 418-54.000.
Kawaguchi, Susumu; Hirahara, Takuhiro; Nakane, Kazuhiro; and Ueda, Sei, 4,676,726, Cl. 418-54.000.
Kawaguchi, Susumu; Hirahara, Takuhiro; Nakane, Kazuhiro; and Ueda, Sei, 4,704,076, Cl. 418-91.000.
Kawaguchi, Takeo; and Saito, Takashi, 4,651,117, Cl. 335-216.000.
Kawaguchi, Takeo, 4,675,636, Cl. 335-216.000.
Kawai, Jun, 4,667,297, Cl. 364-565.000.
Kawajiri, Kazuhiko; Fujiwara, Michio; Tsuchino, Kazumori; and Hisamori, Youichi, 4,711,091, Cl. 60-517.000.
Kawamura, Toshimi; and Satow, Takashi, 4,679,020, Cl. 335-216.000.
Kawamura, Toshimi; Yamada, Tadatoshi; Hani, Kiyoshi; and Yoshizaki, Kiyoshi, 4,694,268, Cl. 335-216.000.
Kawano, Minori, 4,675,632, Cl. 333-222.000.
Kawazu, Akinobu; Fukada, Atsushi; and Hoshinouchi, Susumu, 4,688,349, Cl. 219-121.00E.
Kido, Hitoshi; Igarashi, Yoshimobu; and Okabe, Junji, 4,660,389, Cl. 62-298.000.
Kimata, Masafumi, 4,652,925, Cl. 358-213.000.
Kimata, Masafumi; Yamawaki, Masao; and Yamakawa, Satoshi, 4,707,744, Cl. 358-213.260.
Kimbara, Yoshihide, 4,707,584, Cl. 219-121.0E,G.
Kimura, Tadashi; Sugihara, Masahiro; and Inaba, Tsutomu, 4,698,628, Cl. 414-15.000.
Kinoshita, Tsuyoshi, 4,648,692, Cl. 350-632.000.
Kinoshita, Tsuyoshi, 4,660,798, Cl. 248-648.000.
Kinomoto, Tetsuo; Kondo, Michimasa; and Fujisaki, Takahiko, 4,656,479, Cl. 342-94.000.
Kitano, Toyoaki, 4,633,973, Cl. 181-207.000.
Kitaoka, Takashi; and Watanabe, Eiki, 4,678,063, Cl. 187-119.000.
Kitauchi, Hajime, 4,674,291, Cl. 62-126.000.
Kiyohara, Toyohiko, 4,677,454, Cl. 357-36.000.
Koda, Toshihide; Honda, Tetsuya; Taketoh, Kiyoshi; and Yoshida, Tadahiro, 4,667,474, Cl. 60-517.000.
Kodai, Syojiro; Fujii, Noriaki; Gamo, Hiroshi; and Kobayashi, Bujirou, 4,695,925, Cl. 361-395.000.
Kohama, Satoshi; Wakamiya, Yoshinori; and Tsarada, Makoto, 4,657,505, Cl. 432-18.000.
Kohara, Masanobu; Nakao, Shin; and Shibata, Hiroshi, 4,654,966, Cl. 29-840.000.
Koike, Kazuo, 4,709,286, Cl. 360-105.000.
Koike, Mitsuhiro; and Yakoh, Nobuaki, 4,679,437, Cl. 73-622.000.
Kojima, Kenji, 4,706,034, Cl. 328-151.000.
Kojima, Masanori; and Hayakawa, Masaharu, 4,686,584, Cl. 360-10.300.
Kojima, Shigeru; and Ohi, Hideo, 4,686,434, Cl. 318-52.000.
Komurasaki, Kenichi; Iwatani, Shiro; and Nishimura, Shinji, 4,680,529, Cl. 322-28.000.
Komurasaki, Kenichi; Wada, Hifumi; and Nishimura, Shinji, 4,689,545, Cl. 322-14.000.
Kondo, Tadashi; and Yabe, Kiyoshi, 4,681,993, Cl. 200-153.0SC.
Kotoh, Keigo; and Nakamura, Nobuhiro, 4,668,200, Cl. 441-7.000.
Kotoh, Keigo, 4,673,936, Cl. 342-51.000.
Kotoh, Keigo; and Nakamura, Nobuhiro, 4,682,173, Cl. 342-51.000.
Kouge, Shinichi, 4,658,200, Cl. 322-25.000.
Koyokawa, Morio; and Fujimoto, Akeiko, 4,716,349, Cl. 318-562.000.
Kozuka, Hajime; Hara, Tadayuki; and Yamamoto, Isao, 4,677,409, Cl. 335-258.000.
Kubo, Seiji; Yasuda, Mitsuo; and Katata, Akihide, 4,667,074, Cl. 219-10.49R.
Kumamoto, Toshio, 4,695,748, Cl. 307-355.000.
Kumano, Masayoshi, 4,652,770, Cl. 307-66.000.
Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hideshi; Hidaka, Hideto; Dosaka, Katsumi; and Yoshihara, Tsutomu, 4,675,850, Cl. 365-230.000.
Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hideshi; Hidaka, Hideto; Dosaka, Katsumi; and Nishimura, Yasumasa, 4,692,901, Cl. 365-201.000.
Kumanoya, Masaki; Fujishima, Kazuyasu; Dosaka, Katsumi; Hidaka, Hideto; Miyatake, Hideshi; and Yoshihara, Tsutomu, 4,710,901, Cl. 365-190.000.
Komatani, Hiroshi; and Nakamura, Takashi, 4,689,509, Cl. 310-77.000.
Kumatani, Hiroshi; and Yamaura, Yutaka, 4,691,588, Cl. 74-512.000.
Kuno, Kazuo; and Kinugasa, Masahiro, 4,646,044, Cl. 335-299.000.
Kuno, Kazuo; Ichihara, Tadashi; Fukumoto, Shintaro; and Nagata, Daisaburo, 4,664,867, Cl. 376-142.000.
Kuno, Kazuo; Ichihara, Tadashi; Fukumoto, Shintaro; and Nagata, Daisaburo, 4,664,868, Cl. 376-142.000.
Kusunoki, Shigeru; Nishimura, Tadashi; and Sugahara, Kazuyuki, 4,661,167, Cl. 148-1.500.
Majumdar, Gourab; and Mori, Satoshi, 4,672,245, Cl. 307-570.000.
Makino, Katsumi, 4,704,662, Cl. 362-147.000.
Makino, Katsumi, 4,709,308, Cl. 362-148.000.
Mashiko, Koichiro; Yamada, Michihiro; Arimoto, Kazutami; Miyamoto, Hiroshi; Kobayashi, Toshifumi; and Morooka, Yoshikazu, 4,541,281, Cl. 365-187.000.
Matsuda, Shuichi; and Shigetomi, Akira, 4,661,426, Cl. 430-5.000.
Matsukawa, Takayuki, 4,700,457, Cl. 437-52.000.
Matsumoto, Masaaki, 4,702,972, Cl. 429-34.000.
Matsumoto, Takahiro; Nishio, Tetsuo; Maekawa, Hirofumi; and Ota, Hisashi, 4,655,045, Cl. 62-45.000.
Matsumoto Yoshiaki; Yamagata, Shinji; and Sugihara, Kazuyoshi, 4,695,814, Cl. 337-77.000.
Matsumura, Mitsuie; Okada, Tatsunori; and Gonjo, Yoshihide, 4,647,516, Cl. 429-19.000.
Matsumura, Mitsuie; Okada, Tatsunori; and Gonjo, Yoshihide, 4,650,728, Cl. 429-19.000.
Matsuyama, Isamu; and Sugimoto, Hiroshi, 4,656,509, Cl. 358-100.000.
Mihashi, Yutaka; and Nagai, Yutaka, 4,667,332, Cl. 372-45.000.
Miesematsu, Yoshihiko; Tanaka, Minoru; Yamamoto, Masayuki; and Sakamoto, Kenichiro, 4,684,313, Cl. 414-735.000.
Mitani, Tetsuo; Boba, Fumuki; and Inaka, Katsuyoshi, 4,687,801, Cl. 524-104.000.
Mitsuhashi, Yasuo, 4,700,255, Cl. 360-74.100.
Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, 4,649,088, Cl. 428-697.000.
Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, 4,673,476, Cl. 204-192.280.
Mitsuoka, Hiroshi, 4,675,543, Cl. 307-252.00C.
Mitsuoka, Hiroshi, 4,697,219, Cl. 361-93.000.
Miyamoto, Hiroshi; Mashiko, Koichiro; Kobayashi, Toshifumi; and Yamada, Michihiro, 4,689,770, Cl. 365-149.000.
Miyatake, Hideshi; Fujishima, Kazuyasu; and Shimotori, Kazuhiro, 4,694,432, Cl. 365-203.000.
Miyatake, Hideshi; Fujishima, Kazuyasu; Yoshihara, Tsutomu; Kumanoya, Masaki; Hidaka, Hideto; and Dosaka, Katsumi, 4,712,123, Cl. 357-23.600.
Miyazaki, Masaaki; and Ishii, Mitsuaki, 4,668,875, Cl. 307-106.000.
Miyazaki, Yukio, 4,689,653, Cl. 357-42.000.
Miyoshi, Hideaki, 4,686,15%, Cl. 429-39.000.
Mizohata, Fumio; and Goto, Shigetada, 4,709,161, Cl. 307-270.000.
Mizohata, Fumio; and Kawabata, Takao, 4,710,696, Cl. 323-225.000.
Mizugaki, Shigeo; and Umeki, Tsunenori, 4,639,592, Cl. 365-182.000.
Mizutani, Yoshiki; and Ito, Hiroshi, 4,677,461, Cl. 358-37.000.
Mori, Shunji; Tajima, Shunobu; and Itoh, Atsushi, 4,705,451, Cl. 414-70.000.
Mori, Teijiro; Wada, Yuichi; Sako, Yuji; Tazawa, Hiroaki; and Okado, Hiroyuki, 4,642,429, Cl. 200-144.00R.
Mori, Teijiro; Wada, Yuichi; Nishizako, Shizutaka; Kakizoe, Masahiro; and Masuda, Shigeru, 4,652,707, Cl. 200-144.00R.
Morishita, Akira; Okamoto, Kyoichi; and Arima, Takemi, 4,651,575, Cl. 74-7.00E.
Morishita, Akira; Akae, Yoshifumi; Okamoto, Kyoichi; Nakagawa, Taichi; Morikane, Hiroyuki; Kounou, Tadami; Arima, Takemi; and Hasegawa, Akinori, 4,680,979, Cl. 74-7.00E.
Morishita, Akira; Okamoto, Kyoichi; Nakagawa, Taichi; Morikane, Hiroyuki; Hasegawa, Akinori; Arima, Takemi; and Kounou, Tadami, 4,712,451, Cl. 74-801.000.
Morishita, Akira; Okamoto, Kyoichi; Gotoh, Toshihiko; Kako, Yukio; and Arima, Takemi, 4,715,243, Cl. 74-434.000.
Morishita, Etsuo; Narumiya, Hiroshi; Kakuda, Masayuki; and Sugihara, Masahiro, 4,674,963, Cl. 416-55.000.
Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,635,741, Cl. 180-79.100.
Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,666,010, Cl. 180-79.100.
Morishita, Mitsuharu; and Yabunaka, Kiyoshi, 4,668,873, Cl. 290-36.00R.
Morishita, Mitsuharu; and Kouge, Shinichi, 4,716,355, Cl. 320-64.000.
Morita, Takeshi; Okuda, Takeo; Machida, Kazumichi; Sato, Yoshio; and Nakamura, Yoshitaka, 4,700,041, Cl. 219-96.000.
Murai, Takashi, 4,680,935, Cl. 62-45.000.
Murakami, Hidemobu; and Yasunaga, Seiji, 4,684,782, Cl. 219-121.0EA.
Murakami, Mitsuru; and Kojima, Masanori, 4,652,938, Cl. 358-310.000.
Murakami, Takashi, 4,674,094, Cl. 372-45.000.
Murakami, Tokumichi; Asai, Kohtaro; and Itoh, Atsushi, 4,670,851, Cl. 364-518.000.
Murakami, Tokumichi; Itoh, Atsushi; Asai, Kohtaro; Kamizawa, Koh; and Nishida, Masami, 4,710,812, Cl. 358-136.000.
Murata, Shiro; and Hisatsune, Fumyuki, 4,689,518, Cl. 335-201.000.
Nagamine, Keiji; and Handa, Ichiro, 4,650,326, Cl. 356-240.000.
Nagata, Daisaburo, 4,689,192, Cl. 376-150.000.
Naito, Akira; Kodama, Tetsuji; Tsuruse, Hideki; and Tsutsumi, Hironobu, 4,645,993, Cl. 318-568.000.

Naito, Akira; Kodama, Tetsuzi; Tsuruse, Hideki; Tsutsumi, Hironobu; and Ushio, Hiroshi, 4,646,354, Cl. 382-28.000.
Naitou, Yasuo, 4,707,792, Cl. 364-431.070.
Nakagawa, Tsutomu, 4,639,276, Cl. 148-1.500.
Nakajima, Hiroyuki; Miyamoto, Fumiyuki; Murayama, Masakazu; and Jidai, Eiki, 4,652,619, Cl. 525-502.000.
Nakajima, Isamu; Nakashima, Yasuo; Miyazaki, Nobuyuki; and Ishino, Kazuo, 4,702,087, Cl. 62 285.000.
Nakajima, Masayuki; Satō, Shinichi; Tokui, Akira; Kawai, Akira; Nagatomo, Masao; and Ozaki, Hiroji, 4,702,796, Cl. 156-653.000.
Nakamura, Aki, 4,659,968, Cl. 315-398.000.
Nakamura, Koji, 4,638,212, Cl. 313-408.000.
Nakamura, Shunichi, 4,635,132, Cl. 358-296.000.
Nakamura, Tooru; and Higashino, Shigenori, 4,636,929, Cl. 363-56.000.
Nakamura, Toshiyuki; Sugihara, Masahiro; Inaba, Tsutomu; Ode, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,655,697, Cl. 418-55.000.
Nakatani, Hiroshi, 4,662,502, Cl. 198-328.000.
Nakatsuka, Masanori, 4,692,788, Cl. 357-72.000.
Nakayama, Yoshiro, 4,686,344, Cl. 219-69.00W.
Naruki, Toshimasa; and Goto, Toshihisa, 4,712,145, Cl. 360-96.500.
Naruto, Masashi, 4,634,942, Cl. 318-338.000.
Nishikawa, Akira, 4,688,013, Cl. 337-168.000.
Nishikawa, Toshihide; Hanada, Kenichirou; Nishimura, Yukinobu; and Shimomura, Setsuhiro, 4,706,634, Cl. 123-492.000.
Nishimura, Shinji; Wada, Hifumi; and Komurasaki, Keiichi, 4,651,081, Cl. 320-64.000.
Nishimura, Shinji; Wada, Hifumi; and Komurasaki, Keiichi, 4,686,446, Cl. 322-33.000.
Nishimura, Tadashi; Sugahara, Kazuyuki; Kusunoki, Shigeru; and Inoue, Yasuo, 4,694,143, Cl. 219-388.000.
Nishimura, Yasumasa; Fujishima, Kazuyasu; and Kumamoya, Masaki, 4,672,582, Cl. 365-201.000.
Nishino, Hiroshi; Okamoto, Kiyohide; and Okita, Ryosuke, 4,664,238, Cl. 192-84.00C.
Nishioka, Tadashi; Koyama, Hiroshi; and Mashiko, Yuji, 4,636,400, Cl. 427-39.000.
Nishioka, Tadashi; Koyama, Hiroshi; and Mashiko, Yuji, 4,691,078, Cl. 174-68.500.
Nishitani, Kazuharu, 4,670,676, Cl. 307-592.000.
Nishizako, Shizutaka; Kitou, Toshikazu; Shoji, Shinki; and Baba, Sadaaki, 4,661,883, Cl. 361-159.000.
Niwa, Tomomitsu, 4,698,573, Cl. 318-571.000.
Niwa, Tomomitsu, 4,713,747, Cl. 364-170.000.
Nomura, Masami, 4,667,776, Cl. 187-105.000.
Nomura, Masami, 4,667,777, Cl. 187-112.000.
Ochiai, Hajime; Morihara, Kenji; and Houma, Hidetoshi, 4,656,586, Cl. 364-424.000.
Ochiai, Hajime; and Morihara, Kenji, 4,682,144, Cl. 340-48.000.
Ochiai, Hajime; and Morihara, Kenji, 4,688,266, Cl. 455-612.000.
Oda, Minoru; and Oba, Kunio, 4,696,789, Cl. 376-254.000.
Ogawa, Hitoshi, 4,666,378, Cl. 417-571.000.
Ohashi, Sakuhei, 4,668,139, Cl. 409-302.000.
Ohgaki, Kenji; and Sato, Hiroshi, 4,689,570, Cl. 324-418.000.
Ohnishi, Masaru; and Saito, Masayuki, 4,663,636, Cl. 346-76.0PH.
Ohta, Kazutoshi; and Nakata, Minoru, 4,653,611, Cl. 187-107.000.
Ohta, Kazutoshi; Takemoto, Kenichi; and Makino, Katsumi, 4,666,743, Cl. 427-265.000.
Okada, Keisuke; and Nakaya, Masao, 4,654,690, Cl. 357-51.000.
Okado, Hiroyuki; Nishizako, Shizutaka; Sako, Yuji; and Kakizoe, Masahiro, 4,654,744, Cl. 361-159.000.
Okamoto, Tatsuo; and Harada, Hiroshi, 4,665,608, Cl. 29-571.000.
Okamoto, Tatsuo; Shimizu, Masahiro; and Tsukamoto, Katsuhiro, 4,707,723, Cl. 357-67.000.
Okamoto, Tatsuo; Eguchi, Kenji; and Oosaki, Saburou, 4,710,790, Cl. 357-23.600.
Okuda, Hiroshi, 4,644,927, Cl. 123-602.000.
Okumura, Mitsuhiro; Naya, Eizo; Harima, Mitsuhiro; Murakami, Shoji; and Miyamoto, Seiichi, 4,677,264, Cl. 200-144.00B.
Okuno, Michiharu; and Sugiyama, Tsutomu, 4,652,708, Cl. 200-146.00R.
Onishi, Ken; and Sugiyama, Yasuo, 4,682,333, Cl. 371-39.000.
Ookawa, Katsuhiro, 4,691,250, Cl. 360-14.100.
Ookawa, Katsuhiro; Fujii, Toshifumi; and Nishida, Yoshihiro, 4,691,251, Cl. 360-14.100.
Ookubo, Syouichi, 4,669,579, Cl. 187-124.000.
Oomori, Tatsuo; Ono, Kouichi; and Fujita, Shigeto, 4,710,937, Cl. 372-53.000.
Ootsuka, Shigeharu; and Mizuno, Yuji, 4,650,935, Cl. 200-16.00A.
Ootsuka, Shigeharu; and Mizuno, Yuji, 4,698,726, Cl. 361-335.000.
Oshikiri, Keiichi; and Nakamura, Tooru, 4,678,949, Cl. 307-527.000.
Ota, Makoto; Naito, Akira; and Fujiwara, Toyohiro, 4,668,036, Cl. 339-45.00R.
Otsuka, Nobuo; Igarashi, Hideo; and Thompson, Peter, 4,635,445, Cl. 62-158.000.
Ozaki, Minoru; and Tanaka, Kunimaro, 4,703,496, Cl. 375-19.000.
Ozaki, Yoshio; and Tsurumoto, Kazuo, 4,675,789, Cl. 219-69.00W.
Ozaki, Yoshio; Tsurumoto, Kazuo; Yatomi, Takeshi; and Yamamoto, Masahiro, 4,695,696, Cl. 219-69.00P.
Ozawa, Tateki; Yotsumoto, Hatsuo; and Takeyama, Tetsu, 4,647,540, Cl. 435-291.000.
Sadamori, Yuuichi; and Maeda, Keini, 4,679,045, Cl. 340-825.070.
Saitou, Yosuo; Kataoka, Takeshi; Takechi, Moriaki; and Matsumoto, Takahiro, 4,707,676, Cl. 335-216.000.
Sakai, Kunito; Matsuda, Sadamu; and Takahama, Takashi, 4,697,203, Cl. 357-72.000.
Sakamoto, Masahiko; Yamane, Yoshio; and Hiramoto, Seigo, 4,654,506, Cl. 219-121.0ES.
Sakamoto, Yuzo; and Koike, Kazuo, 4,716,479, Cl. 360-105.000.
Sakane, Toshihiko; and Ogasa, Michio, 4,709,220, Cl. 335-214.000.
Sako, Yuji, 4,635,020, Cl. 337-49.000.
Sako, Yuji, 4,642,597, Cl. 337-82.000.
Sako, Yuji, 4,652,847, Cl. 337-49.000.
Sakuma, Hisayuki; and Hoshinouchi, Susumu, 4,638,145, Cl. 219-121.0LU.
Sakurai, Kanji; Tsumura, Hideo; and Kawamura, Chiaki, 4,652,953, Cl. 360-106.000.
Sasaki, Akira, 4,642,273, Cl. 429-22.000.
Sasaki, Toshihiko; Sunayama, Yooji; Yoshida, Isao; and Endo, Masayuki, 4,696,800, Cl. 422-186.180.
Sasao, Isao, 4,671,391, Cl. 187-134.000.
Sasao, Isao, 4,704,597, Cl. 187-134.000.
Sato, Hiroshi, 4,651,034, Cl. 307-556.000.
Sato, Kazuhiko; Nakamura, Genshiro; and Itagaki, Takushi, 4,701,572, Cl. 136-258.000.
Satoru, Isoda; and Kenichi, Inatomi, 4,686,372, Cl. 250-461.200.
Sawada, Keiichi, 4,651,088, Cl. 324-73.00R.
Seino, Kiyoharu; Takagi, Tadashi; and Takeda, Fumio, 4,639,694, Cl. 333-128.000.
Seiwa, Yoshito; and Takamiya, Saburo, 4,701,926, Cl. 372-45.000.
Sekikawa, Katsuhide, 4,639,855, Cl. 364-188.000.
Senba, Takashi; and Tachikawa, Satoru, 4,700,572, Cl. 73-622.000.
Serizawa, Yoshinori; and Hayakawa, Masaharu, 4,644,415, Cl. 360-10.300.
Shiba, Tetsuo; Takahashi, Kazuhisa; Ikeda, Kenji; and Higuchi, Hideyo, 4,706,106, Cl. 357-75.000.
Shibasaki, Takeshi, 4,679,082, Cl. 358-147.000.
Shikama, Toshihiro; Ota, Takahisa; Ishizaka, Michihiro; Kira, Hirofumi; Horiguchi, Akira; and Kooi, Yuji, 4,685,105, Cl. 370-86.000.
Shimano, Hiroki; Shimizu, Masahiro; Tsukamoto, Katsuhiro; and Inuishi, Masahide, 4,702,797, Cl. 156-653.000.
Shimazu, Yukihiko, 4,706,157, Cl. 361-86.000.
Shimizu, Masahiro; Okamoto, Tatsuo; and Tsukamoto, Katsuhiro, 4,708,904, Cl. 428-209.000.
Shimomura, Setsuhiro; and Nishimura, Yukinobu, 4,665,871, Cl. 123-352.000.
Shimomura, Setsuhiro; and Nishimura, Yukinobu, 4,667,632, Cl. 123-339.000.
Shimotori, Kazuhiro; Fujishima, Kazuyasu; Ozaki, Hideyuki; and Miyatake, Hideshi, 4,641,286, Cl. 365-230.000.
Shimoyama, Hiroyoshi, 4,673,966, Cl. 357-68.000.
Shinohara, Hirofumi; and Ichinose, Katsuki, 4,645,998, Cl. 323-313.000.
Shirasu, Masanori, 4,635,511, Cl. 83-71.000.
Shirazawa, Takashi; and Inoue, Takeo, 4,665,305, Cl. 219-277.000.
Suda, Kakutaro; and Hirao, Tadashi, 4,705,599, Cl. 156-653.000.
Sugihara, Shoichi; and Kotoh, Sumio, 4,684,976, Cl. 358-31.000.
Sugimoto, Hidehiko, 4,675,802, Cl. 363-164.000.
Sugimoto, Hiroshi; and Fukada, Koichi, 4,649,743, Cl. 73-162.000.
Sugimoto, Hiroshi; and Takenaka, Toshio, 4,650,636, Cl. 376-250.000.
Sugimoto, Hiroshi, 4,675,521, Cl. 250-227.000.
Sugimoto, Shigeyuki; Kato, Masayuki; and Chonan, Katsuhiko, 4,678,980, Cl. 318-759.000.
Sugita, Kazuhiko, 4,681,206, Cl. 198-328.000.
Suzuki, Mamoru; and Fukui, Shinta, 4,641,248, Cl. 364-492.000.
Suzuki, Masanori, 4,710,792, Cl. 357-38.000.
Suzuki, Ryozo; Shiraga, Jun; Iwai, Shingo; and Okashiro, Tetuo, 4,682,936, Cl. 417-366.000.
Suzuki, Sunao, 4,667,198, Cl. 324-142.000.
Suzuki, Yoshiki; and Yamazaki, Teruhiko, 4,688,918, Cl. 354-325.000.
Tada, Hideaki, 4,695,938, Cl. 363-37.000.
Tada, Shoji; and Ibuki, Koji, 4,685,018, Cl. 361-1.000.
Tajiri, Hiromi, 4,654,503, Cl. 219-110.000.
Tajiri, Hiromi, 4,677,272, Cl. 219-110.000.
Takabe, Katsunori; and Uetani, Kenichi, 4,677,577, Cl. 364-554.000.
Takada, Ikunori, 4,691,224, Cl. 357-53.000.
Takada, Mitsuyuki; Morihiro, Yoshiyuki; and Takasago, Hayato, 4,643,798, Cl. 156-630.000.
Takada, Mitsuyuki; Endo, Atsushi; and Takasago, Hayato, 4,645,734, Cl. 430-315.000.
Takada, Mitsuyuki; Morihiro, Yoshiyuki; and Takasago, Hayato, 4,685,203, Cl. 29-620.000.
Takagawa, Kiyoshi, 4,700,313, Cl. 364-474.000.
Takagi, Yoshio, 4,646,125, Cl. 357-46.000.
Takahama, Shinobu, 4,677,741, Cl. 29-588.000.
Takahashi, Noboru, 4,675,545, Cl. 307-265.000.
Takami, Akira, 4,685,348, Cl. 74-437.000.
Takamiya, Saburo, 4,675,875, Cl. 372-45.000.
Takano, Hajime; and Yamashita, Hiromitsu, 4,684,973, Cl. 357-68.000.
Takao, Takeda; Hitoshi, Yamazaki; Shizuo, Nakano; Kouzi, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,645,972, Cl. 313-634.000.
Takata, Ikunori; and Kitamura, Takayuki, 4,652,902, Cl. 357-46.000.
Takata, Nobuharu; and Kurita, Kohji, 4,644,242, Cl. 318-771.000.
Takata, Nobuharu, 4,651,072, Cl. 318-440.000.
Takata, Nobuharu, 4,691,156, Cl. 318-798.000.
Takeda, Masatoshi; and Sashida, Nobuo, 4,686,447, Cl. 323-210.000.

Takeda, Masatoshi, 4,695,741, Cl. 307-643.000.
Takeda, Takao; Yamazaki, Hitoshi; Taniguchi, Yoshiteru; Tanaka, Norihiko; Ito, Hiroshi; Uchida, Minoru; and Imai, Jun, 4,703,227, Cl. 313-634.000.
Takenaka, Toshio, 4,661,308, Cl. 376-245.000.
Taki, Hirokazu; Kobayashi, Toyohiro; Naito, Akihiko; and Morimo, Yoshikazu, 4,654,798, Cl. 364-419.000.
Taki, Youichirou, 4,705,968, Cl. 307-456.000.
Takuma, Yoshiyuki, 4,685,287, Cl. 60-39.070.
Tanahashi, Tooru, 4,671,389, Cl. 187-119.000.
Tanaka, Hideharu; Sekiya, Mutsuo; and Uchikawa, Fusaoki, 4,700,805, Cl. 181-265.000.
Tanaka, Kunimaro; and Ozaki, Minoru, 4,701,812, Cl. 360-32.000.
Tanaka, Minoru; and Yonehata, Yuzuru, 4,678,932, Cl. 307-633.000.
Tanaka, Toshinori; Gotou, Takeo; Ishihara, Kouhei; and Kittaka, Yoshiaki, 4,577,407, Cl. 335-202.000.
Taniguti, Ryosuke; Kohmo, Hidenori; Kubo, Manabu; and Ikeda, Takashi, 4,688,184, Cl. 364-560.000.
Taniguti, Ryousuke, 4,683,542, Cl. 364-508.000.
Tanno, Junichi, 4,639,912, Cl. 370-86.000.
Tatsumi, Takumi, 4,635,508, Cl. 74-866.000.
Terada, Yasushi; and Nakayama, Takeshi, 4,691,216, Cl. 357-23.600.
Terada, Yasushi; and Nakayama, Takeshi, 4,694,314, Cl. 357-23.600.
Terazono, Shinichi, 4,714,824, Cl. 250-211.00R.
Tobita, Yoichi, 4,670,706, Cl. 323-313.000.
Tobita, Younchi, 4,695,746, Cl. 307-297.000.
Toda, Masayoshi; and Hamasaki, Seiichi, 4,672,236, Cl. 307-271.000.
Todowoki, Yukio; Seto, Makoto; Yanagihara, Kimihiro; and Yano, Sadanari, 4,651,078, Cl. 318-798.000.
Tomikawa, Naohiro, 4,665,533, Cl. 375-106.000.
Tominaga, Yoshiharu, 4,706,479, Cl. 72-8.000.
Tomita, Satoru; and Adachi, Mitsunori, 4,712,142, Cl. 358-285.000.
Toshiaki, Ishii, 4,681,190, Cl. 187-101.000.
Toshiyasu, Masayuki; and Kawahara, Toshinari, 4,634,930, Cl. 315-8.000.
Toshiyasu, Masayuki; and Kawahara, Toshinari, 4,677,344, Cl. 315-85.000.
Toyoda, Katsuyoshi; and Murai, Takashi, 4,713,941, Cl. 62-50.000.
Tsuji, Shintaro; and Umeda, Yasukazu, 4,662,479, Cl. 187-131.000.
Tsuji, Shintaro; and Umeda, Yasukazu, 4,685,539, Cl. 187-126.000.
Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased, Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Eiji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.
Tsutsumi, Kazumichi, 4,641,624, Cl. 123-571.000.
Uchikawa, Fusaoki, 4,666,628, Cl. 252-500.000.
Uchikawa, Fusaoki; Takeuchi, Morihisa; Shimamoto, Kozo; Miyao, Kunihiko; Momiyama, Kimio; and Watarai, Hisao, 4,673,910, Cl. 338-35.000.
Uchino, Hideo, 4,662,478, Cl. 187-114.000.
Ueda, Akinori; and Okamoto, Kouichi, 4,642,503, Cl. 310-214.000.
Ueda, Akinori, 4,658,170, Cl. 310-214.000.
Ueda, Kazuhiro; Yamaguchi, Toshiaki; Kajiyama, Kouji; and Matsumoto, Osamu, 4,714,089, Cl. 137-614.180.
Ueda, Yoshihiro; Omo, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto, 4,692,627, Cl. 250-423.00P.
Ueda, Yoshihiro; Omo, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto, 4,716,295, Cl. 250-423.00P.
Uetani, Kenichi, 4,672,531, Cl. 364-138.000.
Uetani, Kenichi, 4,682,342, Cl. 375-38.000.
Uetomi, Isamu; Kimura, Masakazu; and Ogura, Kazumasa, 4,651,057, Cl. 315-5.410.
Umeda, Yasukazu, 4,663,723, Cl. 364-492.000.
Umeda, Yasukazu; and Tsuji, Shintaro, 4,682,673, Cl. 187-126.000.
Umemura, Hiroyuki; Matsuda, Kenji; Tezuka, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Matsuoka, Fumio; and Iijima, Hitoshi, 4,709,554, Cl. 62-156.000.
Umemura, Hiroyuki; Matsuda, Kenji; Tezuka, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Sugawara, Sakuo; and Hara, Masanori, 4,715,191, Cl. 62-208.000.
Unno, Mahito; and Yamamoto, Katsuhiro, 4,689,539, Cl. 318-594.000.
Uota, Kousaku; and Itoh, Hisatsugu, 4,677,562, Cl. 364-449.000.
Usui, Masaji, 4,661,877, Cl. 361-36.000.
Wada, Hifumi, 4,634,955, Cl. 322-99.000.
Wada, Shunichi; Shimomura, Setsuhiro; Kumagai, Naotake; Takizawa, Shozo; Maruyama, Mitsunori; Tatemoto, Minoru; Takada, Hiroyuki; and Harara, Mitsuhiko, 4,648,622, Cl. 280-707.000.
Wakamiya, Yoshinori, 4,648,256, Cl. 72-8.000.
Wakamiya, Yoshinori, 4,658,614, Cl. 72-8.000.
Wakamiya, Yoshinori; and Sumino, Tomoko, 4,709,570, Cl. 72-365.000.
Wakayama, Naoaki; Yamagishi, Hideshi; Fukakusa, Shinji; and Tomoda, Toshimasa, 4,682,036, Cl. 250-374.000.
Wake, Masayoshi; Taguchi, Osamu; and Imaizumi, Mitsuyuki, 4,673,774, Cl. 174-94.00R.
Watakabe, Yaichiro, 4,678,714, Cl. 428-432.000.
Watanabe, Eiki, 4,642,474, Cl. 307-64.000.
Watanabe, Eiki, 4,666,020, Cl. 187-114.000.
Watanabe, Eiki, 4,711,335, Cl. 198-324.000.
Watanabe, Fumio, 4,633,692, Cl. 72-8.000.
Wataya, Seiji; Shimomura, Setsuhiro; and Nishimura, Yukinobu, 4,694,806, Cl. 123-494.000.
Wataya, Seiji, 4,702,214, Cl. 123-488.000.
Wataya, Seiji, 4,706,631, Cl. 123-488.000.
Yabe, Kiyoshi; and Onuma, Akiyoshi, 4,705,144, Cl. 185-40.00R.
Yabunaka, Kiyoshi, 4,671,125, Cl. 74-7.00E.
Yagi, Shigeichi; and Shigeura, Junichi, 4,709,194, Cl. 318-52.600.
Yamada, Tatsuo, 4,660,217, Cl. 377-66.000.
Yamada, Tutomu, 4,713,741, Cl. 363-50.000.
Yamagami, Kozo, 4,634,891, Cl. 307-252.00C.
Yamagishi, Hideaki; and Oshimi, Tetsuro, 4,713,759, Cl. 364-200.000.
Yamamoto, Hiroshi; Suzuki, Hayato; and Takatsuka, Keizo, 4,687,890, Cl. 200-148.00B.
Yamamoto, Makoto, 4,649,290, Cl. 307-260.000.
Yamamoto, Makoto; Toyama, Tsuyoshi; Harima, Hirokazu; and Ando, Ryo, 4,651,186, Cl. 357-23.800.
Yamamoto, Masahiro; and Yatomi, Takeshi, 4,698,476, Cl. 219-69.00W.
Yamamoto, Sakuei; and Nishida, Mitsuhiro, 4,651,039, Cl. 310-87.000.
Yamamoto, Sumio, 4,663,572, Cl. 315-383.000.
Yamamoto, Syunji; Yamada, Tadatoshi; Morita, Masao; and Matsuda, Tetsuya, 4,652,826, Cl. 324-320.000.
Yamamoto, Yuuichi, 4,695,675, Cl. 174-15.0CA.
Yamanaka, Osamu, 4,658,206, Cl. 324-51.000.
Yamanaka, Torao, 4,651,143, Cl. 340-691.000.
Yamauchi, Satomi, 4,656,958, Cl. 112-317.000.
Yamauchi, Satomi, 4,660,483, Cl. 112-317.000.
Yamauchi, Satoru; and Nakamura, Takashi, 4,704,655, Cl. 361-159.000.
Yamauchi, Takao, 4,688,136, Cl. 361-120.000.
Yano, Isamu; Fujita, Ryoji; and Kitakoga, Hidetoshi, 4,633,734, Cl. 74-552.000.
Yasuda, Kazuo; Ando, Toshiharu; and Itabashi, Yoshifumi, 4,677,144, Cl. 523-456.000.
Yasuda, Kazuo; Ando, Toshiharu; Itabashi, Yoshifumi; and Tsuchihashi, Masaru, 4,681,904, Cl. 523-457.000.
Yasuoka, Hirotoshi, 4,655,675, Cl. 414-7.5.000.
Yoda, Kiyoshi; Itagaki, Hidenobu; Fujimura, Satoshi; and Yamada, Tadatoshi, 4,649,345, Cl. 324-309.000.
Yoda, Kiyoshi; Uetomi, Isamu; and Fujimura, Satoshi, 4,700,137, Cl. 324-322.000.
Yoda, Kiyoshi; Itagaki, Hidenobu; and Fujimura, Satoshi, 4,706,028, Cl. 324-309.000.
Yokoyama, Seishi, 4,664,179, Cl. 165-76.000.
Yonemoto, Masashi, 4,677,361, Cl. 318-805.000.
Yonemoto, Masashi, 4,713,595, Cl. 318-759.000.
Yonezu, Ryo; and Sakashita, Kazuhiro, 4,638,461, Cl. 365-189.000.
Yonezu, Ryo; and Sakashita, Kazuhiro, 4,644,500, Cl. 365-189.000.
Yoshida, Fumio, 4,654,812, Cl. 364-578.000.
Yoshida, Kenji, 4,673,911, Cl. 187-100.000.
Yoshida, Koichi; and Kawai, Joji, 4,654,632, Cl. 340-347.0AD.
Yoshida, Koichi; and Kawai, Joji, 4,716,535, Cl. 364-565.000.
Yoshida, Susumu, 4,681,982, Cl. 136-249.000.
Yoshida, Toyohiko, 4,670,666, Cl. 307-246.000.
Yoshikawa, Yoshihiko, 4,683,440, Cl. 330-51.000.
Yoshimoto, Kyosuke; and Ito, Osamu, 4,661,942, Cl. 369-44.000.
Yoshimoto, Kyosuke; and Ito, Osamu, 4,689,795, Cl. 372-31.000.
Yoshioka, Kazuo, 4,706,247, Cl. 370-85.000.
Yoshiyasu, Hajimu; Takahashi, Mitsugu; Hisatsune, Fumiyuki; and Murata, Shiro, 4,642,428, Cl. 200-144.00R.
Yoshizawa, Kenji; Komura, Hirotsugu; Kodama, Hitoshi; Ohnuki, Kazushi; Shoda, Isao; Magome, Kazuo; and Ito, Hiroshi, 4,673,846, Cl. 315-248.000.
Yoshizumi, Toshiaki; and Yoshioka, Akiyoshi, 4,700,284, Cl. 363-68.000.
Yumikura, Tsuneo; Ikeuchi, Masaki; Nakao, Kazushige; and Ozaki, Eiichi, 4,651,819, Cl. 165-115.000.
Yuyama, Hiroshi, 4,697,434, Cl. 62-238.700.
Mitsubishi Denki Kabushiki Kaisha Nihon Kentetsu Co., Ltd.: *See*— Hirooka, Hiroshi; Saito, Takeshi; and Urabe, Hirobumi, 4,676,077, Cl. 68-12.00R.
Mitsubishi Electric America, Inc.: *See*— Alexander, Thomas T., 4,647,914, Cl. 379-44.000.
Mitsubishi Gas Chemical Company, Inc.: *See*— Arakawa, Satoshi, 4,693,880, Cl. 423-515.000.
Gaku, Morio; Ikeguchi, Noluyuki; and Kimbara, Hidenori, 4,645,805, Cl. 525-437.000.
Ishiki, Tomiya; Kojima, Yasuhiko; Miyauchi, Yuh; and Yasunaga, Takayuki, 4,659,865, Cl. 560-232.000.
Kimura, Shigeo; and Kurata, Kouichi, 4,691,060, Cl. 568-420.000.
Komatsu, Toshio; Katada, Akira; and Takahashi, Hideyuki, 4,657,133, Cl. 206-204.000.
Komatsu, Toshio; and Takahashi, Hideyuki, 4,657,610, Cl. 156-87.000.
Kosaka, Tsuneo; and Sakai, Yukio, 4,694,089, Cl. 549-239.000.
Masumoto, Mituhiko; Yanada, Shigeo; and Kanugawa, Tadami, 4,695,620, Cl. 528-204.000.
Miyamoto, Akira; Nishimura, Toshiaki; Yamagishi, Yoshitaka; and Higuchi, Yasumitsu, 4,689,392, Cl. 528-247.000.
Nakamura, Hiromi; Takahashi, Takehiko; Narazaki, Norio; Yamamoto, Kazuo; and Sayama, Norio, 4,653,268, Cl. 60-39.050.
Niwa, Kensuke; Fujita, Hisayoshi; Saito, Yoshihiko; Makihara, Hiroshi; Hashimoto, Ritsuo; Hoshi, Younosuke; and Murayama, Katsutoshi, 4,705,654, Cl. 261-128.000.

Osugi, Minoru; Takagawa, Makoto; Nakamura, Tadasi; Kojima, Takashi; and Tsuji, Kinya, 4,666,945, Cl. 518-713.000.
Shimizu, Senzo; Nomura, Ivao; and Narita, Kenichi, 4,702,859, Cl. 252-511.000.
Sonoda, Nobuharu, 4,663,374, Cl. 524-118.000.
Sugio, Akitoshi; Okabe, Masao; and Kobayashi, Toshihiko, 4,663,376, Cl. 524-195.000.
Sugio, Akitoshi; Kawaki, Takao; and Hayashi, Katsushige, 4,670,535, Cl. 528-220.000.
Sugio, Akitoshi; Okabe, Masao; and Amagai, Akikazu, 4,683,255, Cl. 524-151.000.
Sugio, Akitoshi; Okabe, Masao; Mizukami, Masamichi; and Sekine, Yoshihiko, 4,686,131, Cl. 428-158.000.
Umemura, Toshikazu; Masumoto, Isamu; and Iha, Yukihiro, 4,681,927, Cl. 528-232.000.
Wakamatsu, Syuji; Komatsu, Toshio; Inoue, Yoshiaki; and Harima, Yoshihiko, 4,667,814, Cl. 206-0.700.
Watanabe, Tokisuke; Kitaoka, Shinji; and Suwa, Yoshio, 4,658,042, Cl. 549-257.000.

Mitsubishi Heavy Industries, Ltd.: *See*—
Lusk, Elmer C.; and Ridihalgh, John L., 4,666,659, Cl. 376-272.000.

Mitsubishi Jidosha Kogyo Kabushiki Kaisha: *See*—
Chikamori, Sunao; and Iwata, Hideyuki, 4,700,933, Cl. 267-140.100.
Danno, Yoshiaki; Takahashi, Akira; and Iida, Kazumasa, 4,705,001, Cl. 123-417.000.
Fukui, Toyoaki, 4,633,838, Cl. 123-488.000.
Hiramatsu, Takeo; and Nagayoshi, Yoshimasa, 4,662,488, Cl. 192-3.580.
Hiramatsu, Takeo; and Takamiya, Bonnosuke, 4,665,773, Cl. 74-866.000.
Hiramatsu, Takeo; and Nagayoshi, Yoshimasa, 4,676,336, Cl. 180-233.000.
Katsumoto, Takehiko; Oota, Seiichi; and Kitada, Taizou, 4,646,689, Cl. 123-52.0MB.
Kayanoki, Katsuhiko; Teramachi, Kazuo; Ono, Seigo; and Hashimoto, Yasuyuki, 4,650,053, Cl. 192-106.200.
Kijima, Nobuo, 4,646,582, Cl. 74-473.00R.
Kiyota, Yuuhiko; Okada, Tooru; and Isomoto, Jun, 4,646,891, Cl. 123-179.00G.
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Kumagai, Naotake; and Tatemoto, Minoru, 4,673,193, Cl. 280-707.000.
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,695,074, Cl. 280-707.000.
Kozuka, Hajime, 4,644,846, Cl. 91-31.000.
Ootani, Masatoshi, 4,649,775, Cl. 74-866.000.
Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, 4,685,689, Cl. 280-707.000.
Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, 4,696,483, Cl. 280-6.00H.
Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Goto, Masaki, 4,709,935, Cl. 280-91.000.
Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,639,014, Cl. 280-707.000.
Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,640,526, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,669,749, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Takizawa, Shozo; Kumagai, Naotake; and Tatemoto, Minoru, 4,669,750, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,697,237, Cl. 364-424.000.
Wada, Shunichi; Shimomura, Setsuhiro; Kumagai, Naotake; Takizawa, Shozo; Maruyama, Mitsunori; Tatemoto, Minoru; Takada, Hiroyuki; and Harara, Mitsuhiko, 4,648,622, Cl. 280-707.000.
Yoneda, Haruaki; and Hiramatsu, Takeo, 4,660,697, Cl. 192-0.033.
Yoshida, Hiroshi, 4,651,622, Cl. 91-370.000.

Mitsubishi Jukogyo Kabushiki Kaisha: *See*—
Akatsu, Makoto; and Hori, Keiichi, 4,690,615, Cl. 417-226.000.
Araki, Yozo, 4,674,266, Cl. 53-373.000.
Asaeda, Masashi; Mori, Kazutaka; and Makihara, Hiroshi, 4,692,354, Cl. 427-244.000.
Asai, Koetsu, 4,672,906, Cl. 114-74.00A.
Fujimoto, Masashi; and Okazaki, Kazuo, 4,683,834, Cl. 114-294.000.
Fujimura, Hiroshi; Kobayashi, Hideharu; Kaneko, Shozo; Iwanaga, Atsumasa; and Ichinari, Joji, 4,676,425, Cl. 228-45.000.
Fujiwara, Haruyoshi, 4,686,004, Cl. 162-300.000.
Fujiwara, Haruyoshi; Makino, Tetsuo; and Iwata, Hiroshi, 4,708,773, Cl. 162-300.000.
Fujiwara, Haruyoshi, 4,714,521, Cl. 162-300.000.
Fukaya, Yasuhiro; and Minami, Nagio, 4,715,524, Cl. 228-165.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,674,443, Cl. 118-733.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,676,999, Cl. 427-250.000.
Goto, Touru; and Konishi, Takashi, 4,709,383, Cl. 378-72.000.
Hagiwara, Haruo; Tsukamoto, Hideo; and Tsubuki, Yasuhiro, 4,712,392, Cl. 68-18.00C.
Haneda, Hisao; Kashiwazaki, Masamichi; and Motai, Toshiki, 4,664,067, Cl. 122-7.00R.
Hasegawa, Akira; Nishimura, Kaoru; and Yoshida, Yukio, 4,674,965, Cl. 425-29.000.
Hashimoto, Kazuyoshi; Nakano, Tsuneo; Arita, Kazutoyo; Fukuyama, Goro; and Shimosato, Yoshio, 4,687,125, Cl. 226-21.000.
Hatano, Hirofumi; Yamazaki, Masayasu; Sasaki, Atsushi; Mikami, Keigo, deceased; Taoda, Kiyomichi; and Murakami, Mitsuharu, 4,669,976, Cl. 432-58.000.
Hayashi, Shoichi; Ishihara, Hidetoshi; Okada, Taketoshi; and Kojima, Kunio, 4,680,874, Cl. 34-143.000.
Hirakawa, Tadashi; Sasashige, Hiroaki; and Okawa, Haruo, 4,644,896, Cl. 118-44.000.
Hirakawa, Tadashi; and Okamoto, Arifumi, 4,657,236, Cl. 271-99.000.
Hirakawa, Tadashi; Waseda, Masashi; Kusubayashi, Toshiaki; and Tokumaru, Isao, 4,667,953, Cl. 271-280.000.
Hirakawa, Tadashi; and Yano, Tadashi, 4,706,863, Cl. 226-95.000.
Hirano, Takahisa; Fukami, Shoji; Maruwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,666,380, Cl. 418-55.000.
Hirano, Takahisa; and Hagimoto, Kiyoshi, 4,678,415, Cl. 418-50.000.
Hirano, Takahisa; Fukami, Shoji; and Maeda, Mitsuhiko, 4,678,416, Cl. 418-55.000.
Hirano, Takahisa; Fukami, Shoji; Maruwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,696,084, Cl. 29-156.40R.
Ide, Yasuo; Ogushi, Kimio; and Yamauchi, Kazuhiro, 4,646,564, Cl. 73-147.000.
Ideue, Kazuo; Oya, Masashi; Hayashi, Kanji; Egawa, Tsuneo; Shimazutsu, Hiroaki; Ibushi, Junichi; Yamamoto, Kenji; Miyaguchi, Kanehisa; and Dobo, Tamenari, 4,671,017, Cl. 51-49.000.
Iida, Kozo; Nagano, Tsuneo; Yokoyama, Naruo; Obayashi, Yoshiaki; and Mitsuoka, Shigeaki, 4,656,147, Cl. 502-26.000.
Irie, Nobuhiko, 4,685,992, Cl. 156-396.000.
Izuwa, Akio; and Yamaguchi, Tadanobu, 4,697,060, Cl. 219-121.0E.D.
Kamo, Kazuhiko; Suwahara, Hiroshi; and Nakane, Ryuji, 4,636,610, Cl. 219-124.020.
Kano, Hisashi, 4,698,866, Cl. 14-1.000.
Kashiwazaki, Masamichi; Ogawa, Kuchiro; and Uchida, Satoshi, 4,689,949, Cl. 60-39.120.
Katayama, Kazuso; Mori, Yasushi; Kanki, Hiroshi; Mori, Shigeki; Takeshita, Koji; Ozawa, Yutaka; and Yoshida, Zenichi, 4,660,838, Cl. 277-97.000.
Katayama, Kazuso; Ichiryuu, Taku; Mouri, Yasushi; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, 4,708,587, Cl. 415-104.000.
Katayama, Kazuso; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mori, Yasushi; and Kobayashi, Masanori, 4,715,778, Cl. 415-104.000.
Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mouri, Yasushi; and Kobayashi, Masanori, 4,697,987, Cl. 416-204.00A.
Kawai, Koji; Murata, Hisashi; and Okamoto, Koichi, 4,685,272, Cl. 53-389.000.
Kinoshita, Tomohiro; Tanabe, Seiichi; and Sasakawa, Eishiro, 4,683,177, Cl. 429-26.000.
Kiyama, Yoshito; Wada, Ryokichi; and Sakamoto, Kingo, 4,675,824, Cl. 364-464.000.
Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, Koji; Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusawa, Kuniaki; Takama, Hideaki; Waseda, Masashi; and Fujita, Akihisa, 4,667,551, Cl. 83-72.000.
Kuwabara, Hideki; Naito, Masato; Watanabe, Teishiro; and Hamada, Tadatsugu, 4,711,287, Cl. 164-34.000.
Makihara, Katsumi; Yanagi, Kenichi; Fukushima, Takeo; Suganuma, Namio; Samejima, Ichiro; and Takahashi, Seiichi, 4,638,851, Cl. 165-32.000.
Masuda, Toshiro; Ishizuka, Kouichi; Fujita, Toshiji; and Kinoshita, Yoshio, 4,685,139, Cl. 382-1.000.
Matsuda, Katsumi; and Kono, Kunio, 4,651,501, Cl. 53-383.000.
Matsuda, Katsumi; and Kono, Kunio, 4,709,529, Cl. 53-207.000.
Minami, Takao; Nagano, Hiroo; Yamanaka, Kazuo; Okada, Yasutaka; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; and Sasaguri, Nobuya, 4,715,909, Cl. 148-410.000.
Nakahara, Takafumi; Fujiwara, Makoto; Kondo, Motoe; Miyawaki, Yoshiharu; Hanmyo, Masayuki; Kinoshita, Shinya; Matsui, Masao; Tamura, Konoshin; and Murata, Susumu, 4,671,752, Cl. 425-7.000.

Nishi, Toshiro; Murakami, Nobuaki; Ueda, Kenji; Shirakawa, Seiichi; Notomi, Akira; Hisamatsu, Kenichi; and Kaneko, Shozo, 4,686,158, Cl. 429-26.000.
Nishizawa, Shun-ichi; Tsubota, Toshio; and Chikura, Takashi, 4,698,568, Cl. 318-481.000.
Niwa, Kensuke; Fujita, Hisayoshi; Saito, Yoshihiko; Makihara, Hiroshi; Hashimoto, Ritsuo; Hoshi, Younosuke; and Murayama, Katsutoshi, 4,705,654, Cl. 261-128.000.
Noguchi, Takayo; Togawa, Yoichi; Nishimoto, Tsuneo; Tonohara, Yoshiharu; Rokkaku, Tadashi; Nakai, Seigo; Araki, Michio; and Kitano, Kabei, 4,695,209, Cl. 409-42.000.
Nohara, Hiroshi, 4,642,059, Cl. 440-75.000.
Noro, Shingo; Saitou, Kunio; and Izumimoto, Hideki, 4,661,325, Cl. 422-304.000.
Oe, Tsutomu; Kimura, Shigeaki; Yuzaki, Yoshinori; and Ozaki, Tadao, 4,640,453, Cl. 228-17.700.
Okamoto, Arifumi, 4,678,388, Cl. 414-92.000.
Okamoto, Toshiro; and Ohshima, Michio, 4,655,904, Cl. 208-129.000.
Onizuka, Masakazu; Ukawa, Naohiko; Kono, Susumu; and Okino, Susumu, 4,663,724, Cl. 364-496.000.
Onizuka, Masakazu; Kono, Susumu; and Okino, Susumu, 4,677,077, Cl. 436-50.000.
Onizuka, Masakazu; Tatani, Atsushi; Hamada, Takayoshi; and Omoto, Setsuo, 4,683,210, Cl. 436-50.000.
Onizuka, Masakazu; Tatani, Atsushi; and Hamada, Takayoshi, 4,683,211, Cl. 436-50.000.
Ono, Masayuki, 4,715,752, Cl. 409-232.000.
Oyamoto, Toshiya; Makino, Katsuaki; and Ogawara, Fumio, 4,702,818, Cl. 208-81.000.
Rokkaku, Tadashi; and Sugitani, Kazeoshi, 4,664,572, Cl. 409-137.000.
Rokkaku, Tadashi; Houzouji, Akira; Omori, Shunji; and Toto, Takayuki, 4,702,652, Cl. 409-94.000.
Sasano, Ryoichiro; Toyohara, Tsutomu; and Takigawa, Toshimichi, 4,690,020, Cl. 82-2.001.
Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.
Shimoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Omoto, Setsuo; and Okino, Susumu, 4,675,167, Cl. 423-242.000.
Shimoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Okino, Susumu; and Shimizu, Taku, 4,696,804, Cl. 423-242.000.
Shimoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Okino, Susumu; and Shimizu, Taku, 4,696,805, Cl. 423-242.000.
Suzuki, Tsutomu, 4,678,133, Cl. 242-56.00A.
Taguchi, Toshio; and Matsuoka, Hitoshi, 4,667,946, Cl. 270-52.500.
Tajiri, Keisuke; and Nomura, Hirotoshi, 4,676,833, Cl. 106-1.110.
Takagi, Koichi; and Hayashi, Shunichi, 4,677,020, Cl. 428-294.000.
Takahashi, Takehiro, 4,690,022, Cl. 83-308.000.
Takahashi, Yasuro; Fujima, Yukihisa; and Tokuda, Kimishiro, 4,669,398, Cl. 110-347.000.
Takenaka, Hiroyuki; Shigemura, Tatsuhiko; Waseda, Masashi; Miura, Toshiaki; Hoshino, Noriyuki; and Nakashima, Mitsunori, 4,704,034, Cl. 356-429.000.
Takeuchi, Hideo; Kobayashi, Michiaki; Yoritsune, Osamu; and Matsumoto, Takemasa, 4,694,749, Cl. 101-426.000.
Takeuchi, Koichi; Yamanaka, Megumi; Inada, Hisanobu; Kubo, Masayoshi; Katayama, Hideaki; Tokunaga, Kenji; and Miyamoto, Yoshinori, 4,649,780, Cl. 82-48.000.
Takeuchi, Koichi; Yamanaka, Megumi; Kubo, Masayoshi; Katayama, Hideaki; and Tokunaga, Kenji, 4,710,255, Cl. 156-361.000.
Tanaka, Yukio; Miyatake, Toshiya; Kitera, Takuya; and Miyamae, Isamu, 4,646,768, Cl. 134-167.00R.
Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased; Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Eiji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.
Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; and Wada, Tetsuyoshi 4,643,131, Cl. 118-718.000.
Wakamiya, Sukeyoshi; Takeuchi, Naokazu; Hama, Yoshihisa; Akashi, Tatsu; and Shimura, Tatsuo, 4,666,394, C.. 425-342.100.
Watabe, Shin, 4,682,279, Cl. 364-141.000.
Watanabe, Akira, 4,688,680, Cl. 211-1.500.
Yamaguchi, Shogo; and Yoshikawa, Enichi, 4,669,888, Cl. 366-177.000.
Yamaguchi, Shogo; Yoshikawa, Enichi; and Tachi, Eiji, 4,669,889, Cl. 366-177.000.
Yamamoto, Michinori; and Tashiro, Shozo, 4,663,986, Cl. 74-665.00N.
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yasutaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.
Yanagi, Kenichi; Makihara, Katsumi; Fukushima, Takeo; Hashimoto, Osamu; and Iida, Sachihiro, 4,644,667, Cl. 34-54.000.
Yokoyama, Jiro; and Tanabe, Seiichi, 4,699,852, Cl. 429-31.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.
Mitsubishi Kakoki Kaisha Ltd.: *See*—
Nagatsuka, Kenichi; and Watanabe, Hidenori, 4,664,212, Cl. 180-164.000.
Mitsubishi Kenki Kabushiki Kaisha: *See*—
Adachi, Mitsunori; and Tomita, Satoru, 4,707,737, Cl. 358-133.000.
Mitsubishi Kinzoku Kabushiki Kaisha: *See*—
Goto, Motoo; Kono, Hiroshi; Asao, Haruhiko; Miyamoto, Yuko; and Igarashi, Toshihiko, 4,711,433, Cl. 266-222.000.
Hosoda, Naoyuki; Morikawa, Masaki; Uchiyama, Naoki; Yoshida, Hideaki; and Ono, Toshiaki, 4,676,827, Cl. 75-65.0ZM.
Mae, Yoshiharu; and Oka, Tsutomu, 4,681,627, Cl. 75-10.190.
Mae, Yoshiharu, 4,688,625, Cl. 164-471.000.
Morikawa, Masaki; Ohe, Junya; Mishima, Akifumi; and Saitoh, Sadao, 4,659,632, Cl. 428-679.000.
Shibuta, Daisuke; Kobayashi, Shinichiro; Yoshizumi, Motohiko; and Arai, Hideo, 4,668,501, Cl. 423-608.000.
Shimomura, Hiroshi; Karino, Katsuyoshi; and Iizuka, Kazuo, 4,645,384, Cl. 407-42.000.
Shimomura, Hiroshi; and Arai, Tatsuo, 4,687,383, Cl. 407-46.000.
Shimomura, Hiroshi; Takaya, Sueji; and Iizuka, Kazuo, 4,699,549, Cl. 407-42.000.
Shimomura, Hiroshi; Iizuka, Kazuo; Harano, Makoto; and Hamada, Akifumi, 4,714,383, Cl. 407-42.000.
Sonoda, Noboru; Hosoda, Naoyuki; and Hori, Kazumasa, 4,663,141, Cl. 423-510.000.
Sugisawa, Taijiro; and Nishiyama, Akio, 4,693,944, Cl. 428-698.000.
Tanaka, Hiroshi; and Kikuchi, Toshiaki, 4,655,929, Cl. 210-664.000.
Tsujimura, Osamu; Hasegawa, Ryoei; and Ohkawa, Masayuki, 4,679,968, Cl. 407-114.000.
Tsujimura, Osamu; Saito, Takayoshi; and Arai, Tatsuo, 4,693,641, Cl. 407-42.000.
Tsuruta, Shoji; Minami, Hideaki; Ohhata, Yoshinori; and Sakai, Shinsuke, 4,699,118, Cl. 125-11.00R.
Yoshiki, Naokazu; Saito, Yutaka; and Haba, Tsuneo, 4,712,407, Cl. 72-68.000.
Yoshimura, Hironori; and Toyama, Jhunichi, 4,636,252, Cl. 75-238.000.
Yoshimura, Hironori, 4,642,003, Cl. 408-144.000.
Mitsubishi Metal Corporation: *See*—
Tomizawa, Kenji; Sassa, Koichi; and Shimanuki, Yasushi, 4,704,257, Cl. 422-249.000.
Mitsubishi Mining & Cement Co., Ltd.: *See*—
Hatano, Hirofumi; Yamazaki, Masayasu; Sasaki, Atsushi; Mikami, Keigo, deceased; Taoda, Kiyomichi; and Murakami, Mitsuharu, 4,669,976, Cl. 432-58.000.
Kawasumi, Shinroku, 4,714,645, Cl. 428-209.000.
Ogata, Yasufuki; and Shinohara, Yoshinori, 4,636,248, Cl. 75-0.5AA.
Okazaki, Kiyoshi, 4,707,311, Cl. 264-43.000.
Uetsuhara, Tokio, 4,706,055, Cl. 335-229.000.
Yamaguchi, Takashi; Ishiguchi, Isao; and Inoue, Takeshi, 4,716,134, Cl. 501-136.000.
Yamauchi, Kouji; and Ueda, Chikai, 4,701,091, Cl. 414-70.000.
Mitsubishi Monsanto Chemical Company: *See*—
Fujino, Kiyoharu, 4,691,030, Cl. 549-255.000.
Hasegawa, Ryuichi; and Hayashi, Kohji, 4,681,975, Cl. 560-90.000.
Ikuma, Sadao, 4,713,429, Cl. 526-87.000.
Kokubo, Takashi, 4,699,947, Cl. 525-71.000.
Matsuda, Hitoshi; Okumura, Tsuguo; and Abe, Kazuharu, 4,690,792, Cl. 264-235.800.
Okumura, Tsuguo; Yamagishi, Naomichi; Abe, Kazuharu; Sugiyama, Masayoshi; and Mori, Kenji, 4,698,195, Cl. 264-235.800.
Sawada, Tsutomu; Yoshida, Kyoji; Takano, Shozo; and Fujikawa, Masanori, 4,664,658, Cl. 604-266.000.
Yamagishi, Naomichi; Mori, Kenji; Okumura, Tsuguo; Hiratsuka, Tatsufumi; and Sugiyama, Masayoshi, 4,634,840, Cl. 219-388.000.
Mitsubishi Nuclear Fuel Co., Ltd.: *See*—
Hasegawa, Shinichi, 4,666,691, Cl. 423-260.000.
Mitsubishi Oil Co., Ltd.: *See*—
Takahashi, Yoshio; and Hatanaka, Shigeto, 4,673,439, Cl. 106-287.240.
Tate, Kazuhito; Yoshida, Hajime; and Yanagida, Kazuhiro, 4,670,129, Cl. 208-22.000.
Yokota, Kinya; Ichihara, Akimobu; Tanakamaru, Yasuharu; and Takahashi, Yoshio, 4,666,523, Cl. 106-213.000.
Mitsubishi Paper Mills, Ltd.: *See*—
Emoto, Kazuhiro; Itoh, Akira; and Haino, Kozo, 4,687,721, Cl. 430-58.000.
Furukawa, Akira; Senga, Takao; and Suzuki, Shigeyoshi, 4,636,452, Cl. 430-112.000.
Haino, Kozo; Emoto, Kazuhiro; and Itoh, Akira, 4,702,983, Cl. 430-75.000.
Hiraishi, Shigetoshi; Kondo, Kazuyoshi; and Banba, Takashi, 4,644,374, Cl. 346-209.000.
Iguchi, Keisuke; and Ebato, Seigo, 4,710,455, Cl. 430-567.000.
Ikeda, Haruhiko; and Hiraishi, Shigetoshi, 4,688,058, Cl. 503-209.000.
Ikeda, Haruhiko; and Hiraishi, Shigetoshi, 4,707,463, Cl. 503-209.000.
Kagota, Nobuhiro; and Senoh, Hideaki, 4,640,714, Cl. 106-21.000.
Kanada, Eiji; Suzuki, Shigeyoshi; Endo, Kazunaka; and Yamamoto, Kyonosuke, 4,636,066, Cl. 355-77.000.
Katsura, Toru, 4,665,014, Cl. 430-538.000.
Kosaka, Takao; Okumura, Fumio; and Tsukahara, Hirokazu, 4,711,749, Cl. 264-4.700.

Matsushita, Toshihiko; Morishita, Sadao; Sekine, Mikiya; and Hiraishi, Shigetoshi, 4,696,863, Cl. 428-402.200.
Matsushita, Toshihiko; Morishita, Sadao; and Sekine, Mikiya, 4,703,335, Cl. 503-204.000.
Morishita, Sadao; Matsushita, Toshihiko; and Sekine, Mikiya, 4,651,177, Cl. 346-227.000.
Morishita, Sadao; Matsushita, Toshihiko; and Sekine, Mikiya, 4,707,404, Cl. 428-335.000.
Ohashi, Minoru; and Kaneko, Satoshi, 4,702,999, Cl. 430-445.000.
Sumi, Seiichi; and Iwaosa, Katsuaki, 4,666,827, Cl. 430-567.000.
Torii, Takahiro; Ishiguro, Mamoru; and Senoh, Hideaki, 4,642,662, Cl. 346-215.000.
Torizuka, Koichi; and Futaki, Kiyoshi, 4,693,955, Cl. 430-204.000.
Toyama, Koji, and Shimizu, Hideo, 4,686,138, Cl. 428-323.000.
Tsubai, Yasuo; Okazaki, Koji; and Yoshida, Akio, 4,643,962, Cl. 430-205.000.
Tsubai, Yasuo; Okazaki, Koji; Horii, Shoichi; and Yoshida, Akio, 4,649,096, Cl. 430-249.000.
Tsukada, Satoshi; and Taguchi, Kazuhisa, 4,649,097, Cl. 430-270.000.
Uno, Akira; Ninohira, Akira; and Noda, Touru, 4,650,747, Cl. 430-536.000.

Mitsubishi Pencil Co., Ltd.: *See*—
Ando, Yoichi, 4,654,035, Cl. 604-210.000.
Ohmori, Hirofumi, 4,642,102, Cl. 604-210.000.

Mitsubishi Petrochemical Co., Ltd.: *See*—
Abe, Katsuhiro; Kobayashi, Yoshinobu; and Baba, Mitsushige, 4,684,684, Cl. 524-227.000.
Fujii, Masaki; Gotoh, Shiroh; Nakagawa, Hideaki; and Ito, Ryoichi, 4,680,318, Cl. 521-95.000.
Fujii, Masaki; Sakai, Takao; Sakurai, Hideo; and Yamamoto, Yosiharu, 4,701,505, Cl. 526-125.000.
Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, 4,701,659, Cl. 310-334.000.
Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, 4,704,774, Cl. 29-25.350.
Fujita, Koichi, 4,650,904, Cl. 564-298.000.
Goh, Atsushi; Nakamura, Mami; Endo, Keiji; and Hikido, Mitsuru, 4,654,074, Cl. 71-92.000.
Hanamura, Eiichi; Tokura, Yoshinori; Takada, Akio; and Itsubo, Akiro, 4,678,736, Cl. 430-270.000.
Hiratsuka, Kazuya; Sato, Yuichi; Aoki, Yoshiyasu; Yui, Hiroshi; Miyabayashi, Mitsutaka; and Itsubo, Akira, 4,702,977, Cl. 429-194.000.
Hirose, Sachio; Homma, Tammotsu; Kurihara, Takashi; Adachi, Hidenari; Sako, Yoshitaka; and Shibata, Makiko, 4,703,106, Cl. 530-307.000.
Horie, Shinji; and Kakizaki, Tetsuji, 4,659,796, Cl. 526-310.000.
Horie, Shinji, 4,713,310, Cl. 430-109.000.
Inoue, Takayuki; Hattori, Masafumi; Hayama, Kazuhide; and Maruta, Riichiro, 4,698,395, Cl. 525-327.800.
Ishino, Iwao; Ohno, Akihiko; and Isaka, Tsutomu, 4,689,369, Cl. 525-288.000.
Kageyama, Yoshiteru, 4,680,140, Cl. 252-512.000.
Kakizaki, Tetsuji; Mizutani, Toshikazu; and Yui, Hiroshi, 4,696,765, Cl. 252-511.000.
Kanayama, Kaoru, 4,656,294, Cl. 549-335.000.
Konno, Kazuhiko; Araki, Koichi; Ikeda, Kaoru; Endo, Keiji; and Hikido, Mitsuru, 4,659,365, Cl. 71-92.000.
Matsuura, Mitsuyuki; and Fujita, Takashi, 4,703,026, Cl. 502-119.000.
Mayumi, Junji; and Maruta, Riichiro, 4,692,357, Cl. 427-393.500.
Mori, Shoichiro; and Ue, Makoto, 4,715,976, Cl. 252-62.200.
Nojiri, Naohiro; and Sakai, Yukio, 4,642,360, Cl. 549-534.000.
Nojiri, Naohiro; and Sakai, Yukio, 4,690,913, Cl. 502-340.000.
Okuyama, Katsumi; and Mizutani, Hiroyasu, 4,704,238, Cl. 264-41.000.
Sano, Hironari, 4,699,935, Cl. 523-206.000.
Shiraishi, Masao; Nishiya, Yoshinori; and Ito, Syoji, 4,687,804, Cl. 524-505.000.
Takahashi, Hiroshi; Kakizaki, Tetsuji; Kato, Mitsuyoshi; and Nishida, Koji, 4,702,554, Cl. 350-96.300.
Tamura, Yutaka, 4,663,375, Cl. 524-171.000.
Yamaguchi, Shoji; and Yamada, Kimiko, 4,663,079, Cl. 252-512.000.
Yamaguchi, Shoji, and Yamada, Kimiko, 4,705,647, Cl. 252-512.000.
Yazaki, Takao; Hattori, Satoru; Hattori, Kazuhide; Matsuno, Takumi; Shibuya, Nobuhiro; Hayama, Kazuhide; and Itoh, Isao, 4,659,618, Cl. 428-317.700.
Yazaki, Takao; Noro, Masataka; and Matsui, Takashi, 4,713,282, Cl. 428-216.000.

Mitsubishi Plastics Industries, Limited: *See*—
Hashimoto, Tadashi, 4,643,788, Cl. 156-203.000.
Shibata, Kizo; and Dodo, Kazuo, 4,649,009, Cl. 264-235.800.
Takagi, Kenji, 4,655,348, Cl. 206-444.000.

Mitsubishi Rayon Co., Ltd.: *See*—
Aoki, Yoshihisa, 4,666,965, Cl. 524-114.000.
Asai, Hajime; and Anai, Katsumi, 4,654,264, Cl. 428-367.000.
Gotoh, Hajime; Machida, Mamoru; and Sugiyama, Osamu, 4,713,276, Cl. 428-113.000.
Hamada, Eiichi; Nakashima, Atushi; and Kamo, Jun, 4,659,549, Cl. 422-48.000.
Imao, Shoji; Nakamoto, Hideo; Osaka, Norihisa; Takesue, Masatoshi; Kodama, Hitoshi; Suzuki, Kinuko; and Inomoto, Masataka, deceased, 4,704,328, Cl. 428-324.000.
Inoue, Michio; and Kawashima, Kazuto, 4,636,307, Cl. 210-188.000.
Ishii, Kazuhiro; Uno, Tetsuya; Kato, Masaki; and Kobayashi, Masao, 4,707,460, Cl. 502-26.000.
Itoh, Hajime; and Mitani, Kazutami, 4,678,813, Cl. 521-61.000.
Itoh, Hajime; and Mitani, Kazutami, 4,695,592, Cl. 521-54.000.
Kamata, Kazumasa; Ueda, Kazuo; and Kitai, Kiyokazu, 4,696,973, Cl. 525-71.000.
Kamiyo, Sumio; and Yoshihiro, Mitsuto, 4,636,536, Cl. 523-137.000.
Kanda, Hisashi, Nario, Susumu; Morifuji, Kazuhiko; Kawada, Yuzo; Sakai, Takashi; Kawada, Takeshi; Shimada, Katsura; and Tsuneda, Mitsuo, 4,670,953, Cl. 28-185.000.
Kishida, Kazuo; Ueda, Kazuo; Kitai, Kiyokazu; and Matsumoto, Tsuruyoshi, 4,663,382, Cl. 524-504.000.
Kishida, Kazuo; Kawasaki, Hiroshi; and Shigemitsu, Hideyuki, 4,665,125, Cl. 525-67.000.
Kishida, Kazuo; Ueda, Kazuo; and Kaneda, Masahiro, 4,699,948, Cl. 525-85.000.
Koike, Kazuyoshi; and Tahara, Yasuteru, 4,639,130, Cl. 356-73.100.
Masuzawa, Tokihiko; Kageyama, Yoshitaka; and Tomita, Norizou, 4,642,736, Cl. 362-31.000.
Murakami, Saburo; Kinashi, Shoji; and Ego, Toyokazu, 4,710,333, Cl. 264-73.000.
Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, 4,639,339, Cl. 260-513.600.
Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, 4,673,688, Cl. 514-554.000.
Nagai, Shoichi; Hiraoka, Saburo; Hama, Shinji; and Senga, Mitsuo, 4,659,386, Cl. 106-120.000.
Nagao, Kunihiko, 4,645,649, Cl. 422-186.300.
Nakamoto, Hideo; and Okaya, Tsutomu, 4,690,819, Cl. 523-223.000.
Nakamoto, Hideo; and Fukushima, Hiroshi, 4,668,751, Cl. 526-314.000.
Nakamoto, Hideo; Aosai, Fumito; Fukushima, Hiroshi; and Suda, Eriko, 4,680,368, Cl. 528-49.000.
Ohe, Makoto, 4,648,690, Cl. 350-321.000.
Okano, Kenji, 4,668,740, Cl. 525-227.000.
Okumura, Munehiro; Kuwahara, Kazuo; Arita, Masujiro; Mori, Shingo; Ohmura, Tetsuya; Yamamoto, Osamu; and Ishii, Shinichi, 4,668,401, Cl. 210-650.000.
Ooe, Akihiko; Imaida, Tetsuo; Uchida, Teruyoshi; and Kojima, Hirotaka, 4,690,147, Cl. 128-635.000.
Orii, Koichi; Nishida, Masashi; Yagi, Junsuke; and Ohshima, Iwao, 4,683,128, Cl. 423-338.000.
Sasaki, Isao; Mori, Hiroshi; and Fujimoto, Masaharu, 4,647,650, Cl. 528-274.000.
Sasaki, Isao; and Mukai, Nobuhiro, 4,678,819, Cl. 523-171.000.
Sasaki, Isao; and Mori, Hiroshi, 4,687,811, Cl. 525-100.000.
Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Kushi, Kenji, 4,689,243, Cl. 427-54.100.
Sasaki, Isao; Yanagase, Akira; Kawachi, Yasunori; Mayuzumi, Tetsuya; Oba, Toshio; and Okada, Fumio, 4,690,986, Cl. 525-479.000.
Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Yamamoto, Takashi, 4,693,553, Cl. 350-96.340.
Sasaki, Makoto; Yoshida, Jun; Shimizu, Yoshishige; Akazawa, Kiyoshi; Kishita, Eiji; and Hirata, Kaoru, 4,713,291, Cl. 428-173.000.
Setsuie, Takashi; Otani, Takeji; and Kobayashi, Tadao, 4,661,572, Cl. 526-229.000.
Setsuie, Takashi; Otani, Takeji; and Yoshida, Kanji, 4,695,415, Cl. 264-29.200.
Sugimori, Teruhiko; Tajiri, Noriyuki; and Fukuda, Yutaro, 4,690,974, Cl. 525-64.000.
Sugimori, Teruhiko; Tajiri, Noriyuki; and Fukuda, Yutaro, 4,690,975, Cl. 525-64.000.
Tahara, Yasuteru; and Koike, Kazuyoshi, 4,711,121, Cl. 73-37.700.
Takemae, Shigeru; Takada, Yasuo; Tokuda, Shunchiro; Furukawa, Noriyuki; and Kodama, Hitoshi, 4,663,927, Cl. 57-6.000.
Takemura, Tohru; Nakashima, Atushi; Yoshida, Haruhiko; Kamo, Jun; and Hamada, Eiichi, 4,639,353, Cl. 422-46.000.
Takemura, Tohru; Itoh, Hajime; Kamo, Jun; and Yoshida, Haruhiko, 4,713,292, Cl. 428-373.000.
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,633,662, Cl. 57-286.000.
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,689,944, Cl. 57-260.000.
Uchida, Teruyoshi; Yamamori, Hisayoshi; Kojima, Hirotaka; and Tashita, Junichi, 4,672,970, Cl. 128-635.000.
Yamamori, Hisayoshi; Inoue, Michio; Kawashima, Kazuto; and Tanaka, Hisao, 4,663,227, Cl. 428-315.700.
Yamamori, Hisayoshi; Inoue, Michio; Kawashima, Kazuto; and Tanaka, Hisao, 4,675,213, Cl. 427-244.000.
Yata, Yukio; and Suzuki, Shingo, 4,674,836, Cl. 350-128.000.
Yata, Yukio; and Suzuki, Shingo, 4,708,435, Cl. 350-129.000.

Mitsubishi Rayon Engineering Co. Ltd.: *See*—
Okumura, Munehiro; Kuwahara, Kazuo; Arita, Masujiro; Mori, Shingo; Ohmura, Tetsuya; Yamamoto, Osamu; and Ishii, Shinichi, 4,668,401, Cl. 210-650.000.
Okumura, Munehiro; Nomura, Takao; Matsuda, Tadashi; Kido, Shojiro; Ishii, Shinichi; and Hattori, Hideki, 4,690,764, Cl. 210-629.000.

Mitsubishi Shindoh Co., Ltd.: *See*—
Futatsuka, Rensei; Kumagai, Seiji; and Izumida, Masuhiro, 4,668,471, Cl. 420-477.000.

Mitsubishi Yuka Badische Co., Ltd.: *See*—
Endo, Hiroshi; Yagi, Toshio; Tanaka, Masahiro; and Suzuki, Takanori, 4,689,351, Cl. 521-60.000.
Endo, Hiroshi; Arai, Masakazu; Nishikawa, Shigeo; Saito, Masanori; Tanaka, Masahiro; Nagasaki, Kunikazu; and Mathuno, Shigeki, 4,698,191, Cl. 264-50.000.
Maeda, Atsushi, 4,681,648, Cl. 156-210.000.
Mitsubishi Yuka Fine Chemicals Co., Ltd.: *See*—
Oonishi, Akiyoshi; Tanaka, Kenji; Tadeka, Makoto; Konno, Kazuhiko; and Saito, Masaki, 4,694,102, Cl. 562-426.000.
Takeda, Makoto; Iwane, Hiroshi; Yoshida, Akira; and Mori, Teruo, 4,700,008, Cl. 568-374.000.
Umezawa, Norihiro; and Hata, Kazuyuki, 4,684,407, Cl. 106-90.000.
Mitsubishi Yuka Pharmaceutical Co., Ltd.: *See*—
Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijuro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.
Mitsubishi Yukogyo: *See*—
Mouri, Yasushi; Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, 4,706,969, Cl. 277-83.000.
Mitsubishikaseikogyo Kabushiki Kaisha: *See*—
Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Gikuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.
Mitsuboshi Belting Ltd.: *See*—
Fujita, Kunihiro; and Tanaka, Hideaki, 4,682,973, Cl. 474-263.000.
Kazusa, Susumu; Nagamine, Masahiro; and Tagawa, Takayuki, 4,649,979, Cl. 152-527.000.
Mashimo, Satoshi, Kakiuchi, Hajime; and Nakajima, Masayoshi, 4,642,082, Cl. 474-260.000.
Mashimo, Satoshi; Fujita, Kunihiro; Tanaka, Masayuki; Yamaguchi, Yoshio; and Takeda, Kazuhiro, 4,715,176, Cl. 57-251.000.
Takano, Hiroshi, 4,634,404, Cl. 474-11.000.
Takano, Hiroshi; Takagi, Shinichi; and Wada, Kiyokazu, 4,642,080, Cl. 474-244.000.
Takano, Hiroshi; Takagi, Shinichi; Wada, Kiyokazu; Konishi, Sadaichi; and Kanaoka, Tomizo, 4,708,699, Cl. 474-144.000.
Tanaka, Hiroyuki; Takami, Eiichi; Mishima, Kyoichi; Higashi, Mitsunobu; and Kumasaki, Toshimi, 4,707,729, Cl. 474-205.000.
Tomiyori, Takashi; and Senoo, Takaharu, 4,674,994, Cl. 474-24.000.
Mitsuboshi Sangyo Co. Ltd.: *See*—
Iwasaki, Takashi; Tomita, Yasuo; and Hayashi, Tsunekazu, 4,690,839, Cl. 427-366.000.
Mitsuda, Tetsuya: *See*—
Fukuhara, Mikio; and Mitsuda, Tetsuya, 4,702,769, Cl. 75-233.000.
Mitsudera, Hiroyuki; Konishi, Kazuo; and Sato, Yasuo, to Takeda Chemical Industries, Ltd. Insecticidally, acaricidally, and nematocidally 2-amino-1,3-dithiane derivatives and pesticidal compositions therefor. 4,640,929, 2-3-87, Cl. 514-436.000.
Mitsudoh, Makoto: *See*—
Watanabe, Akira; Takeuchi, Yoshimitsu; Kihara, Seiji; Mitsudoh, Makoto; and Wakabayashi, Yoh'ichi, 4,681,633, Cl. 106-35.000.
Mitsuhashi, Hiroshi: *See*—
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,653,571, Cl. 164-490.000.
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,688,624, Cl. 164-440.000.
Mitsuhashi, Masakazu; and Koyama, Shunsaku, to Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo. Process for the production of virus vaccine. 4,659,569, 4-21-87, Cl. 424-89.000.
Mitsuhashi, Shinobu: *See*—
Ishikawa, Yoshirou; Ohta, Kazuyuki; and Mitsuhashi, Shinobu, 4,647,815, Cl. 315-3.000.
Mitsuhashi, Takamichi: *See*—
Ujihara, Tsunenobu; Mitsuhashi, Takamichi; and Ueno, Takehiko, 4,689,550, Cl. 323 354.000.
Mitsuhashi, Tsuneyoshi: *See*—
Katayama, Kazuso; Ichiryuu, Taku; Mouri, Yasushi; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, 4,708,587, Cl. 415-104.000.
Katayama, Kazuso; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mori, Yasushi; and Kobayashi, Masanori, 4,715,778, Cl. 415-104.000.
Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mouri, Yasushi; and Kobayashi, Masanori, 4,697,987, Cl. 416-204.00A.
Mouri, Yasushi; Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, 4,706,969, Cl. 277-83.000.
Mitsuhashi, Yasuo; Uchiyama, Masaki; Murakawa, Kazunori; and Okado, Kenji, to Canon Kabushiki Kaisha. Image forming method of negative latent images using silica particles. 4,640,882, 2-3-87, Cl. 430-110.000.
Mitsuhashi, Yasuo, to Canon Kabushiki Kaisha. Image forming method. 4,699,865, 10-13-87, Cl. 430-101.000.
Mitsuhashi, Yasuo, to Mitsubishi Denki Kabushiki Kaisha. Magnetic tape recording apparatus. 4,700,255, 10-13-87, Cl. 360-74.100.
Mitsuhida, Noboru: *See*—
Watanabe, Haruo; Mitsuhida, Noboru; Andoh, Makoto; and Matsumoto, Hakuji, 4,647,532, Cl. 435-28.000.
Mitsui, Akio; and Ohta, Noboru, to Fuji Photo Film Co., Ltd. Silver halide color photographic material. 4,681,837, 7-21-87, Cl. 430-504.000.
Mitsui, Akio: *See*—
Fujita, Munehisa; and Mitsui, Akio, 4,640,890, Cl. 430-504.000.
Mitsui Aluminium Co., Ltd.: *See*—
Matsui, Shingo; Ikeda, Hidetsugu; Era, Akio; and Nishimura, Sanji, 4,639,355, Cl. 423-112.000.
Mitsui & Co., Ltd.: *See*—
Taga, Jun, 4,680,118, Cl. 210-493.100.
Usui, Takayuki, 4,690,829, Cl. 426-661.000.
Mitsui Engineering & Shipbuilding Co., Ltd.: *See*—
Degawa, Toru; Fujiwara, Kozo; Hashimoto, Akio; Uchida, Seiju; Okuyama, Gen; and Matsui, Susumu, 4,695,427, Cl. 420-129.000.
Degawa, Toru; Okuyama, Gen; Hashimoto, Akio; Uchida, Seiju; Fujiwara, Kouzou; Ebata, Makoto; Satou, Takashi; and Ototani, Tohei, 4,710,481, Cl. 501-123.000.
Endo, Yasuhira; Mizuhara, Shuhei; Murakami, Satoshi; Beppu, Osamu; and Toshioka, Saiji, 4,704,997, Cl. 123-198.0DB.
Nakaoji, Kazuhiko; Kamao, Mitsugu; Itoh, Hayami; Tatsumi, Shuhei; and Takao, Shoichi, 4,706,891, Cl. 241-16.000.
Tamura, Tetsuji; and Sasaki, Masahiko, 4,653,610, Cl. 184-6.120.
Yamasaki, Nakamichi; Kubota, Takeshi; Hoshino, Yoshihiro; and Tanuma, Hiroyuki, 4,661,291, Cl. 252-629.000.
Mitsui Grinding Wheel Co., Ltd.: *See*—
Uchiyama, Taro; Takehisa, Kiwamu; and Ishizaki, Isao, 4,643,889, Cl. 423-579.000.
Mitsui, Hajime: *See*—
Yoshino, Tsunemi; Ishikawa, Katsuji; and Mitsui, Hajime, 4,702,583, Cl. 354-400.000.
Mitsui High-Tec, Inc.: *See*—
Fujita, Katsufusa, 4,704,187, Cl. 156-645.000.
Oboshi, Takamitsu, 4,704,184, Cl. 156-512.000.
Mitsui Kensetsu Kabushiki Kaisha: *See*—
Okamoto, Tadashi; Matsubara, Sumiyuki; and Handa, Masahisa, 4,684,567, Cl. 428-257.000.
Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, to Mitsubishi Denki Kabushiki Kaisha. Antireflective film for photoelectric devices. 4,649,088, 3-10-87, Cl. 428-697.000.
Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, to Mitsubishi Denki Kabushiki Kaisha. Antireflective film for photoelectric devices and manufacturing method thereof. 4,673,476, 6-16-87, Cl. 204-192.280.
Mitsui Miike Engineering Corp.: *See*—
Furuyama, Kuninori; and Ito, Yoshiro, 4,670,226, Cl. 422-216.000.
Mitsui Mining Company, Limited: *See*—
Furuyama, Kuninori; and Ito, Yoshiro, 4,670,226, Cl. 422-216.000.
Mitsui Mining and Smelting Co., Ltd.: *See*—
Ueno, Kuniki; and Takahashi, Naotomi, 4,640,747, Cl. 204-37.100.
Mitsui Norin Co., Ltd.: *See*—
Hara, Yukihiko, 4,673,530, Cl. 252-398.000.
Mitsui Ocean Development & Engineering Co., Ltd.: *See*—
Tateishi, Hiromitsu, 4,658,903, Cl. 166-335.000.
Tatsuguchi, Masamitsu, 4,662,787, Cl. 405-198.000.
Mitsui, Osamu; and Fukuoka, Yohei, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing a cycloolefin. 4,678,861, 7-7-87, Cl. 585-266.000.
Mitsui Petrochemical Industries, Ltd.: *See*—
Handa, Takayuki; Takeuchi, Yasushi; Kato, Masumi; and Seki, Hisazi, 4,684,430, Cl. 156-366.000.
Hashimoto, Mikio; Nakata, Yoshinari; and Koga, Hitoshi, 4,681,816, Cl. 428-463.000.
Horimoto, Koji; and Morita, Yoshimori, 4,655,877, Cl. 162-146.000.
Kashiwa, Norio; and Fukui, Kunisuke, 4,659,792, Cl. 526-73.000.
Kashiwa, Norio; Kioka, Mamoru; Kohyama, Masaki; and Ishiyama, Masanobu, 4,668,753, Cl. 526-348.000.
Kioka, Mamoru; and Kashiwa, Norio, 4,675,219, Cl. 526-125.000.
Koga, Hitoshi; Noborio, Takehisa; and Nishimoto, Masushi, 4,650,951, Cl. 219-118.000.
Kohyama, Masaki; Muranaka, Takeshi; Fukui, Kunisuke; and Kashiwa, Norio, 4,642,269, Cl. 428-516.000.
Matsunaga, Fujihisa; Kato, Eiji; Kimura, Tsuyoshi; and Isota, Yoichiro, 4,675,444, Cl. 564-403.000.
Mineshima, Hideo; Koda, Haruyuki; and Yamamoto, Ryoichi, 4,692,501, Cl. 526-65.000.
Nagano, Riichiro; and Sagane, Toshihiro, 4,659,785, Cl. 525-324.000.
Nakagawa, Mikio; Sato, Koichiro; Kanemoto, Kuniaki; and Nishimura, Akito, 4,670,349, Cl. 428-516.000.
Ohdaira, Akio; Suga, Michiharu; Kato, Akifumi; Kobayashi, Toshio; and Yokoyama, Akira, 4,670,508, Cl. 525-64.000.
Ozaki, Yoshimi; and Sueoka, Eizo, 4,677,166, Cl. 525-334.100.
Shigemoto, Hiromi; Yamamoto, Akio; and Suzuki, Iwatoshi, 4,693,677, Cl. 425-376.00R.
Takahashi, Shigeru; and Maeda, Yasuhiro, 4,677,066, Cl. 435-172.200.
Taniguchi, Katsuo; Fujimoto, Tadaaki; and Saeki, Kenji, 4,675,307, Cl. 502-306.000.
Tominari, Kenichi; Inoue, Hiroshi; and Sakai, Masayuki, 4,668,752, Cl. 526-348.200.
Tsutsui, Toshiyuki; Kioka, Mamoru; Toyota, Akinori; and Kashiwa, Norio, 4,704,491, Cl. 585-10.000.
Yatsu, Tadao; Ishimaru, Etsuji; and Miura, Kimiyoshi, 4,675,373, Cl. 528-103.000.
Yatsu, Tadao; Nakano, Takayuki; Himeoka, Nobuya; and Kato, Tatsuo, 4,692,506, Cl. 528-296.000.
Yonekura, Katsuyoshi; Uchiyama, Akira; and Matsuda, Akira, 4,650,830, Cl. 525-193.000.
Yonekura, Katsuyoshi; Uchiyama, Akira; and Matsuda, Akira, 4,656,098, Cl. 428-517.000.

Mitsui Seiki Kogyo Co., Ltd.: *See*—
Iwakura, Koichi, 4,668,137, Cl. 409-233.000.
Mitsui Sekitan Kogyo Kabushiki Kaisha: *See*—
Sato, Koji; Kuroda, Hiroshi; Yamada, Ryuji; and Serino, Mamoru, 4,715,657, Cl. 299-1.000.
Mitsui Sekiyu Kagaku Kogyo Kabushiki Kaisha: *See*—
Homma, Shirou; Izumi, Takashi; and Murakami, Sakae, 4,701,508, Cl. 526-249.000.
Mitsui Sugar Co., Ltd.: *See*—
Takazoe, Ichiro; Ohta, Kosei; Shimizu, Junichi; Suzuki, Kazumasa; Iwakura, Tatsuya; and Nakajima, Yoshikazu, 4,695,326, Cl. 127-30.000.
Mitsui Toatsu Chemicals, Inc.: *See*—
Ando, Shinji; Ohtaguro, Masami; Masuda, Takayoshi; and Watanabe, Yoshimoto, 4,713,245, Cl. 424-438.000.
Asanuma, Tadashi; Ohoka, Tatuo; and Funakoshi, Yoshiyuki, 4,659,755, Cl. 523-303.000.
Fukuda, Tamotsu; Shigeta, Shiro; Okuya, Hiroaki; Kurowa, Yasuyuki; and Sudo, Tadashi, 4,702,910, Cl. 424-92.000.
Hiai, Athuhiko; Wakimura, Kazuo; and Tanaka, Masao, 4,656,013, Cl. 423-89.000.
Hirai, Yutaka; Torisu, Masaaki; and Nagayoshi, Eri, 4,665,176, Cl. 544-258.000.
Hirose, Sumio; Naruse, Isao; and Matsuyama, Akio, 4,694,052, Cl. 525-454.000.
Honda, Tadatoshi; and Tsuda, Takeshi, 4,668,283, Cl. 75-0.5AA.
Hosonuma, Sin; Fujio, Junichi; Tanaka, Kozo; Suzuki, Harue; and Baba, Kenichi, 4,643,529, Cl. 350-337.000.
Ibi, Akira; Sato, Takushi; Yamaguchi, Akihiro; Takahashi, Shigeru; Shishido, Shigeyuki; Tamai, Shoji; and Nakajima, Hisai, 4,687,836, Cl. 528-353.000.
Inoue, Kaoru; Miyagawa, Hiroharu; Itoh, Masayoshi; Abe, Tomohiro; Koizumi, Kyogo; and Yanagawa, Noriyuki, 4,667,048, Cl. 556-469.000.
Ishikawa, Katsutoshi; Shimotori, Hitoshi; Iida, Noboru; Ozawa, Shuji; and Inami, Shunichi, 4,652,569, Cl. 514-269.000.
Ito, Keiko; Ito, Michiyasu; Tsuji, Shoichi; and Suzuki, Hisatosi, 4,705,812, Cl. 521-92.000.
Ito, Keiko; Ito, Michiyasu; Tsuji, Shoichi; Suzuki, Hisatosi; and Ito, Shoichi, 4,705,813, Cl. 521-92.000.
Itoh, Hiroshi; Nitta, Atsuhiko; Tanaka, Tomio; and Kamio, Hideo, 4,649,219, Cl. 564-207.000.
Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, 4,654,177, Cl. 260-512.00R.
Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, 4,659,773, Cl. 524-817.000.
Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamotu; Ouchi, Takahiro; Abe, Kazuki; and Kobayashi, Sadao, 4,683,258, Cl. 524-434.000.
Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, 4,701,283, Cl. 260-507.00R.
Kajimoto, Nobuyuki; Tamaki, Akihiro; and Nagata, Teruyaki, 4,680,369, Cl. 528-76.000.
Kajimoto, Nobuyuki; Tamaki, Akihiro; and Nagata, Teruyuki, 4,689,387, Cl. 528-76.000.
Kambara, Yoshihiko; Asano, Shiro; Isozaki, Wataru; Kitado, Syoji; and Yamaguchi, Masao, 4,670,590, Cl. 564-206.000.
Kawai, Yoichi; Abe, Masaru; Maki, Masami; Suzuki, Koutarou; and Hoshino, Minoru, 4,663,369, Cl. 523-203.000.
Kawai, Yoichi; Abe, Masaru; Yoshihara, Akio; Hayashi, Shigeru; and Sekiguchi, Katsumi, 4,705,818, Cl. 523-200.000.
Kobayashi, Sadao; Sukawa, Hiroshi; and Yamamoto, Sadaaki, 4,656,105, Cl. 429-192.000.
Matsubara, Tetsuyuki; Ito, Norifumi; Iwamoto, Mune; and Ando, Toshihiko, 4,699,976, Cl. 528-501.000.
Matsumura, Shuji; Ito, Michiyasu; Tsuji, Syoichi; Suzuki, Hisatosi; and Ito, Syoichi, 4,699,733, Cl. 282-521.000.
Mita, Ryuichi; Katoh, Toshio; Higuchi, Chojiro; and Yamaguchi, Akihiro, 4,675,439, Cl. 562-443.000.
Nagata, Teruyuki; Kajimoto, Nobuyuki; Wada, Masaru; Nakayama, Hitoshi; and Yamada, Tadao, 4,668,793, Cl. 548-317.000.
Nakatani, Kiyoshi; Numata, Satoshi; Kodaka, Kenji; Oda, Kengo; Shiraishi, Shiro; and Udagawa, Takatoshi, 4,661,501, Cl. 514-345.000.
Ono, Hiroshi; Miyama, Kanemitsu; and Kasuga, Takaharu, 4,654,445, Cl. 568-454.000.
Sannohe, Kunio; Otsuka, Kengo; Ito, Toshohiko; Maruyama, Masahiko; Kitano, Takafumi; and Hirayama, Makoto, 4,639,521, Cl. 546-141.000.
Sasagawa, Katsuyoshi; Nishihara, Kunio; Ozawa, Hiroshi; and Imai, Masao, 4,707,425, Cl. 430-21.000.
Shimizu, Yoshiro; and Tada, Yoshio, 4,637,964, Cl. 428-694.000.
Takaki, Usaji; Sudo, Isamu; and Matsuhisa, Toshio, 4,656,306, Cl. 560-104.000.
Takaki, Usaji; Sudo, Isumu; Matsuhisa, Toshio; and Hara, Isao, 4,661,620, Cl. 560-104.000.
Takenaka, Shinji; Oi, Ryu; and Shimakawa, Chitoshi, 4,684,449, Cl. 204-75.000.
Takenaka, Shinji; and Oi, Ryu, 4,694,110, Cl. 568-638.000.
Tanabe, Yoshimitsu; Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Sugimoto, Kenichi; and Yamaguchi, Akihiro, 4,701,567, Cl. 568-719.000.
Yamaguchi, Keizaburo; Sugimoto, Kenichi; Tanabe, Yoshimitsu; Yamazaki, Midori; and Yamaguchi, Akihiro, 4,671,890, Cl. 252-182.000.
Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Tanabe, Yoshimitsu; Sugimoto, Kenichi; and Yamaguchi, Akihiro, 4,692,554, Cl. 564-430.000.
Yamamoto, Isamu; Noguchi, Yoshiaki; Iwasaki, Kouzou; and Arai, Kenichi, 4,657,704, Cl. 260-513.00B.
Yamane, Kunio; Ohmura, Kazutaka; Nakayama, Akira; and Takeuchi, Yasutoshi, 4,663,294, Cl. 435-317.000.
Yano, Osamu; and Kitano, Takafumi, 4,657,896, Cl. 514-44.000.
Yoshimoto, Takeo; Umemoto, Mitsumasa; Igarashi, Kenichi; Kubota, Yutaka; Yamazaki, Hideo; Enomoto, Yuji; and Yanagita, Hirohisa, 4,692,466, Cl. 514-604.000.
Mitsui Toatsu Kagaku-Kabushiki Kaisha: *See*—
Katakami, Tsutomu; Fukazawa, Nobuyuki; Iizuka, Hajime; Nishina, Takashi; Kamiya, Joji; Tanaka, Yasuhito; and Nakano, Takuo, 4,639,451, Cl. 514-247.000.
Mitsui, Tsutomu, to Aisin Seiki Kabushiki Kaisha. Oil pressure control apparatus. 4,657,041, 4-14-87, Cl. 137-116.300.
Mitsuishi, Tsutomu: *See*—
Satoh, Tsuyoshi; Mitsuishi, Tsutomu; Toyoda, Kenji; Naito, Kaoru; Ogawa, Makoto; and Sato, Hiroshi, 4,698,646, Cl. 346-76.0PH.
Mitsuka, Ikuo, to Dainippon Screen Mfg. Co., Ltd. Method of recording a halftone image. 4,639,086, 1-27-87, Cl. 350-322.000.
Mitsuka, Ikuo, to Dainippon Screen Mfg. Co., Ltd. Method and system for processing image data in reproducing images. 4,679,155, 7-7-87, Cl. 364-525.000.
Mitsuka, Ikuo; and Kuwabara, Akira, to Dainippon Screen Mfg. Co., Ltd. Method for controlling magnification variation. 4,687,944, 8-18-87, Cl. 250-578.000.
Mitsuka, Ikuo: *See*—
Shida, Junji; Ono, Yoshio; Mitsuka, Ikuo; Hoki, Tetsuo; Kuwabara, Akira; Haibara, Hitoshi; and Sakamoto, Takashi, 4,656,517, Cl. 358-213.000.
Mitsukuchi, Kunio; Ito, Hiromitsu; Eguchi, Isamu; Hirasato, Bunji; and Furuhata, Takashi, to Takamatsu Electric Works, Ltd. Gas switch. 4,701,583, 10-20-87, Cl. 200-148.00B.
Mitsukuchi, Morihiro: *See*—
Watanabe, Yoshiaki; Morimoto, Shigeo; Goi, Masami; Mitsukuchi, Morihiro; Adachi, Takashi; Nakagami, Jozi; Asaka, Toshifumi; Eguchi, Tadashi; and Sota, Kaoru, 4,672,109, Cl. 536-7.200.
Mitsumaki, Hiroshi; Takano, Nobuyoshi; and Ono, Naoya, to Hitachi, Ltd. Method and apparatus for conducting flow analysis. 4,680,270, 7-14-87, Cl. 436-52.000.
Mitsumaki, Hiroshi; Ono, Naoya; Shindo, Isao; and Takano, Nobuyoshi, to Hitachi, Ltd. Method and apparatus of flow analysis. 4,696,183, 9-29-87, Cl. 73-19.000.
Mitsunaru Chemical & Synthetic Industrial Co., Ltd.: *See*—
Funahashi, Kazutomi; Yoshii, Koichi; Nakamura, Yoichi; Oshiiri, Tatsumi; and Kobayashi, Hajime, 4,668,298, Cl. 106-287.130.
Mitsumi-Cinch, Ltd.: *See*—
Kinoshita, Yoshichika; and Suzuki, Noriyasu, 4,647,136, Cl. 339-125.00R.
Mitsumi Electric Co., Ltd.: *See*—
Fujino, Takuo; and Sugie, Noboru, 4,675,737, Cl. 358-183.000.
Mikamoto, Makoto; Sasaki, Shinkichi; Watanabe, Hiroyuki; and Miyazawa, Azuma, 4,665,453, Cl. 360-96.600.
Naoi, Mitsuaki; Miyazawa, Azuma; and Arai, Hideharu, 4,669,009, Cl. 360-99.000.
Mitsumi, Katoh, to Nippon Gakki Seizo Kabushiki Kaisha. Tone waveshape forming device. 4,635,520, 1-13-87, Cl. 84-1.260.
Mitsumori, Masahito: *See*—
Kaneda, Hiroshi; Mitsumori, Masahito; and Hamabe, Kenji, 4,664,609, Cl. 418-137.000.
Kumata, Masataka; Emori, Kazuo; Mitsumori, Masahito; Watanabe, Hideo; and Kobayashi, Kazuaki, 4,664,644, Cl. 464-180.000.
Mitsumori, Shigeyoshi: *See*—
Baba, Hideyuki; and Mitsumori, Shigeyoshi, 4,703,468, Cl. 369-44.000.
Mitsumoto, Kinya: *See*—
Miyakawa, Nobuaki; Yazawa, Yoshiaki; Ozeki, Shoichi; and Mitsumoto, Kinya, 4,665,505, Cl. 365-177.000.
Uchida, Hideaki; Mitsumoto, Kinya; Yazawa, Yoshiaki; Nakazato, Shinji; and Odaka, Masanori, 4,682,200, Cl. 357-41.000.
Mitsumoto, Takashi; Eiermann, Dankwart; and Nuber, Roland, to Aisin Seiki Kabushiki Kaisha; and Wankel GmbH, Firma. Discharge valve. 4,700,740, 10-20-87, Cl. 137-512.150.
Mitsumoto, Yoshio: *See*—
Akiyoshi, Mitsuo; Hirai, Kazumi; Mitsumoto, Yoshio; and Hori, Ichiroh, 4,675,507, Cl. 219-406.000.
Mitsunaga, Hiroshi: *See*—
Noda, Kazushi; Komatsu, Moriyuki; and Mitsunaga, Hiroshi, 4,640,340, Cl. 165-41.000.
Mitsuno, Takashi: *See*—
Suzuki, Migaku; Sasaki, Satoshi; Mitsuno, Takashi; and Inagaki, Hiroyuki, 4,687,477, Cl. 604-385.00A.
Mitsuno, Tatsuyuki; Koyama, Teruhisa; Shinonaga, Hideo; and Daimon, Akio, to Sumitomo Chemical Company, Limited. Polypropylene resin composition containing filler. 4,686,257, 8-11-87, Cl. 524-449.000.
Mitsuoka, Hideo. Horse leg guards. 4,685,278, 8-11-87, Cl. 54-82.000.
Mitsuoka, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Drive circuit for gate turnoff thyristor. 4,675,543, 6-23-87, Cl. 307-252.00C.
Mitsuoka, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Snubber circuit for gate turnoff thyristor. 4,697,219, 9-29-87, Cl. 361-93.000.
Mitsuoka, Shigeaki: *See*—
Iida, Kozo; Nagano, Tsuneo; Yokoyama, Naruo; Obayashi, Yoshiaki; and Mitsuoka, Shigeaki, 4,656,147, Cl. 502-26.000.

Mitsubishi Graphic Communication Systems, Inc.: *See*—
Iemura, Shigeru; and Ohigashi, Chiaki, 4,671,309, Cl. 137-93.000.
Mitsuta, Yuji: *See*—
Ban, Itsuki; Kii, Toshiyuki; and Mitsuta, Yuji, 4,648,710, Cl. 356-4.000.
Ban, Itsuki; and Mitsuta, Yuji, 4,712,003, Cl. 250-221.000.
Mitsutake, Katsuharu, to Toyo Tire & Rubber Company Limited. Pneumatic tire tread. 4,697,627, 10-6-87, Cl. 152-209.00R.
Mitsutsuka, Syuichi, to Clarion Co., Ltd. Surface acoustic wave device. 4,647,881, 3-3-87, Cl. 333-194.000.
Mitsutsuka, Syuichi, to Clarion Co., Ltd. Surface acoustic wave device. 4,683,395, 7-28-87, Cl. 310-313.00R.
Mitsutsuka, Syuichi, to Clarion Co., Ltd. Surface acoustic wave device. 4,697,115, 9-29-87, Cl. 310-313.00R.
Mitsuya, Hiroaki; and Broder, Samuel, to United States of America, Health and Human Services. Immortalized T-lymphocyte cell line for testing HTLV-III inactivation. 4,704,357, 11-3-87, Cl. 435-32.000.
Mitsuya, Kinpei; and Iwasaki, Mitsuhiro, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Device for inserting weft yarn in a fluid jet loom. 4,644,980, 2-24-87, Cl. 139-435.000.
Mitsuyama, Akira: *See*—
Okuda, Masakiyo; Ohnishi, Kazuyuki; and Mitsuyama, Akira, 4,639,125, Cl. 355-23.000.
Mitsuyasu, Kiyoshi: *See*—
Yagasaki, Eriko; Kanda, Motoya; Mitsuyasu, Kiyoshi; and Sato, Yuji, 4,696,873, Cl. 429-59.000.
Mitsuyasu, Masaki; and Takahashi, Takeshi, to Toyota Jidosha Kabushiki Kaisha. Drive circuit for an electrostrictive actuator in a fuel injection valve. 4,688,536, 8-25-87, Cl. 123-490.000.
Mitsuyoshi, Yusuke: *See*—
Itoh, Tsutomu; Tateno, Haruo; Nagasaka, Hideo; Yamamoto, Masahiro; Mitsuyoshi, Yusuke; Matsuno, Susumu; Saitoh, Hiroshi; and Kitoh, Masayuki, 4,670,290, Cl. 427-34.000.
Mittanck, Leon R. Clamp for safety leg of a ladder, and ladder equipped therewith. 4,655,322, 4-7-87, Cl. 182-172.000.
Mittel, James G.: *See*—
DeLuca, Michael J.; and Mittel, James G., 4,673,865, Cl. 323-222.000.
Mittelhauser, Bernhard. Support for external rearview vehicular mirror. 4,711,421, 12-8-87, Cl. 248-479.000.
Mittelman, Arnold: *See*—
Anderson, Garth R.; Manly, Kenneth F.; and Mittelman, Arnold, 4,654,301, Cl. 435-26.000.
Mittelmann, Gerhard, to Swiss Aluminium Ltd. Rectangular parallelepiped arrangement of two cases for air travel. 4,693,345, 9-15-87, Cl. 190-108.000.
Mittelmark, Melvin F.: *See*—
Miller, John W.; Mittelmark, Melvin F.; and Schmidt, Roger N., 4,707,644, Cl. 318-136.000.
Mittelmeier, Bernhard: *See*—
Mittelmeier, Heinz; Mittelmeier, Bernhard; and Leu, Beat, 4,654,464, Cl. 623-16.000.
Mittelmeier, Heinz; Mittelmeier, Bernhard; and Leu, Beat, to Oscobal AG. Bone substitute material on the base of natural bones. 4,654,464, 3-31-87, Cl. 623-16.000.
Mittelstadt, Norbert: *See*—
Hennecke, Udo; Mittelstadt, Norbert; and Muller, Eberhard, 4,662,086, Cl. 34-229.000.
Mittendorf, Gerald C.; and Soliman, Francis G., to Allied Corporation. Control device for controlling an engine of a turbine power system having more than one engine. 4,644,744, 2-24-87, Cl. 60-39.150.
Mittendorf, Gerhard, to Fag Kugelfischer Georg Schafer (KGaA). Sliding sleeve for clutches of automotive vehicles. 4,684,005, 8-4-87, Cl. 192-98.000.
Mitteregger, Erich; and Schwaiger, Ernst, to I.F.W.-Industrie-Formen und Werkzeugbau-Manfred Otte Gesellschaft m.b.H. & Co. KG. Injection moulding mould. 4,708,632, 11-24-87, Cl. 425-556.000.
Mittleman, Herbert, to Baxter Travenol Laboratories, Inc. Luer connection. 4,639,019, 1-27-87, Cl. 285-332.000.
Mittleman, Steven: *See*—
Crossley, Ian; Donoghue, Daniel; Mittleman, Steven; and Nash, Seth, 4,637,088, Cl. 455-327.000.
Mitts, Richard K.; and Jones, J. Kevin, to Rev-A-Shelf, Inc. Vertically adjustable rotary shelf assembly. 4,688,686, 8-25-87, Cl. 211-183.000.
Mitumaru, Mittoshi, to Koyo Seiko, Co. Ltd. Endless backup ring for hydraulic apparatus seal. 4,660,839, 4-28-87, Cl. 277-153.000.
Mitutoyo Mfg. Co., Ltd.: *See*—
Aoyama, Tsutomu; Nakamura, Taizo; Terao, Naoyosi; and Shinonaga, Hirohiko, 4,639,098, Cl. 350-514.000.
Fukuyoshi, Minoru; Furuto, Takashi; and Nakamura, Tetsuo, 4,701,704, Cl. 324-207.000.
Hanaoka, Hiroshi; and Matsumiya, Sadayuki, 4,684,257, Cl. 356-374.000.
Iwano, Hideo, 4,653,011, Cl. 364-513.000.
Iwano, Hideo; and Shudo, Kazuo, 4,677,755, Cl. 33-503.000.
Koizumi, Hiroshi, 4,711,034, Cl. 33-172.00E.
Kuwabara, Yoshiharu; and Hamada, Hiroyoshi, 4,637,680, Cl. 350-6.800.
Kuwabara, Yoshiharu; and Hamada, Hiroyoshi, 4,639,141, Cl. 356-387.000.
Mizuno, Satoshi, 4,665,739, Cl. 73-105.000.
Nagai, Ryo, 4,636,630, Cl. 250-214.00R.
Nakamura, Taizo, 4,692,629, Cl. 250-560.000.
Nishihara, Sadamitsu; and Sawada, Katsuhide, 4,652,738, Cl. 250-202.000.
Nishihara, Sadamitsu, 4,652,765, Cl. 250-560.000.
Nishimura, Takeji, 4,651,291, Cl. 364-560.000.
Nishina, Shingo, 4,689,890, Cl. 33-504.000.
Sadamitsu, Nishihara; and Yuji, Kawahara, 4,648,718, Cl. 356-387.000.
Takizawa, Kinji; Mizuno, Ichiro; and Sugizaki, Iwao, 4,679,326, Cl. 33-170.000.
Mitzlaff, James E., to Motorola, Inc. Multi-level power amplifying circuitry for portable radio transceivers. 4,636,741, 1-13-87, Cl. 330-127.000.
Mitzner, Horst, to Rheinische Maschinenfabrik Eisengiesserei Anton & Roper GmbH & Co. Arrangement for the changing of implements in foundry machines. 4,673,022, 6-16-87, Cl. 164-201.000.
Miura, Asahiko: *See*—
Komaki, Akio; Hayakawa, Takumi; Yoneda, Tadashi; Miura, Asahiko; Wada, Hironao; Matsubayashi, Satoshi; and Takemasa, Arihiko, 4,652,505, Cl. 429-131.000.
Miura, Fusayoshi: *See*—
Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, 4,655,385, Cl. 228-223.000.
Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, 4,670,067, Cl. 148-26.000.
Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, 4,689,092, Cl. 148-26.000.
Miura, Hirohisa; Satoh, Hiroshi; Natsume, Toshio; and Katagiri, Hidenori, to Toyota Jidosha Kabushiki Kaisha. Metal distillation method utilizing double vaporization. 4,695,319, 9-22-87, Cl. 75-63.000.
Miura, Hiroshi: *See*—
Kikuchi, Goro; Kumazawa, Takeshi; and Miura, Hiroshi, 4,688,567, Cl. 128-206.150.
Miura, Hisahiro: *See*—
Ohba, Masahiro; Sugimoto, Hiroshi; Kamiya, Toru; Yamazaki, Toru; Tanabe, Hidemichi; Hirano, Satoshi; Namba, Hideaki; Matsui, Katsumasa; and Miura, Hisahiro, 4,668,873, Cl. 307-9.000.
Miura, Ishi: *See*—
Sato, Atsushige; Miura, Ishi; Kumei, Yasuhiro; Okuno, Osamu; Nakano, Tsuyoshi; and Yoshida, Bunsaku, 4,702,765, Cl. 75-0.50B.
Miura, Kaoru: *See*—
Kida, Yasuji; Miura, Kaoru; and Kawaguchi, Ikumi, 4,647,639, Cl. 526-293.000.
Miura, Katsuhito; and Nakata, Tetsuya, to Osaka Soda Co., Ltd. Polyether polymer or copolymer, monomer therefor, and process for production thereof. 4,711,950, 12-8-87, Cl. 528-409.000.
Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, to Nippon Soken, Inc. Semiconductor-type flow rate detecting apparatus. 4,677,850, 7-7-87, Cl. 73-204.000.
Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, to Nippon Soken, Inc. Flow rate detecting apparatus having semiconductor chips. 4,682,496, 7-28-87, Cl. 73-204.000.
Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, to Nippon Soken, Inc. Semiconductor-chip gas-flow measuring apparatus. 4,693,116, 9-15-87, Cl. 73-204.000.
Miura, Kazuhiko: *See*—
Kanehara, Kenji; Huzino, Seizi; Miura, Kazuhiko; and Ohta, Minoru, 4,688,425, Cl. 73-204.000.
Ohta, Minoru; Miura, Kazuhiko; Onoda, Michitoshi; Iwasaki, Yukio; and Hattori, Tadashi, 4,705,713, Cl. 428-209.000.
Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Tenichi, 4,643,745, Cl. 55-137.000.
Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Tenichi, 4,673,416, Cl. 55-137.000.
Miura, Kenichiro: *See*—
Kuriyama, Kenichi; Miura, Kenichiro; and Deguchi, Takashi, 4,709,292, Cl. 361-22.000.
Miura, Kenji; Nakajima, Shigeru; Minegishi, Kazushige; Morie, Takashi; and Somatani, Toshifumi, to Nippon Telegraph & Telephone Corporation. Semiconductor memory device with trench surrounding each memory cell. 4,672,410, 6-9-87, Cl. 357-23.600.
Miura, Kenji: *See*—
Kurono, Masayasu; Hayashi, Motohide; Suzuki, Tsunemasa; Miura, Kenji; Kumagai, Yoshihiro; Matsumoto, Yukiharu; Miyano, Seiji; and Sumoto, Kunihiro, 4,678,801, Cl. 514-413.000.
Nakajima, Shigeru; Minegishi, Kazushige; Miura, Kenji; Morie, Takashi; and Somatani, Toshifumi, 4,683,643, Cl. 437-203.000.
Miura, Kikuzo, to Kabushiki Kaisha Ito Tekkousho. Filter apparatus. 4,647,377, 3-3-87, Cl. 210-323.200.
Miura, Kimiyoshi: *See*—
Yatsu, Tadao; Ishimaru, Etsuji; and Miura, Kimiyoshi, 4,675,373, Cl. 528-103.000.
Miura, Kiyokatsu: *See*—
Sawada, Kouji; Miura, Kiyokatsu; Suzuki, Kenchiro; Idosako, Hidetaka; and Kazusa, Hideo, 4,714,368, Cl. 403-132.000.
Miura, Kiyoshi: *See*—
Nishizawa, Masahiro; Miura, Kiyoshi; Sasaya, Osamu; and Odaka, Yoshiyuki, 4,652,462, Cl. 427-53.100.
Nishizawa, Masahiro; Yokomizo, Hiroshi; Miura, Kiyoshi; and Sasaya, Osamu, 4,657,961, Cl. 524-297.000.
Yamabe, Yasuo; and Miura, Kiyoshi, 4,666,190, Cl. 285-93.000.
Miura, Konoe; Nagasaka, Hideki; Takahashi, Noriaki; Ochiai, Tamerchi; and Takasaki, Ryuichiro, to Mitsubishi Chemical Industries Limited. Positive photosensitive composition of cocondensed β-

naphthol and m-cresol with aldehyde in admixture with sulfonyl triester of a 1,2-naphthoquinone-1-diazide. 4,650,741, 3-17-87, Cl. 430-192.000.

Miura, Koryo; Kitamura, Takayuki; Okazaki, Kakuma; and Abe, Kazuhiro, to Miura, Koryo; and Japan Aircraft Mfg. Co., Ltd. Extendible structure. 4,662,130, 5-5-87, Cl. 52-108.000.

Miura, Kuniaki; Yunde, Yasufumi; Kotani, Kazunori; Fukushima, Isao; and Kano, Kenji, to Hitachi, Ltd. Vertical contour emphasis de-emphasis circuit. 4,647,960, 3-3-87, Cl. 358-37.000.

Miura, Kuniaki; Okada, Yoshinori; Fukushima, Isao; and Otsuka, Susumu, to Hitachi, Ltd. Apparatus for multiplex recording and reproduction of audio and video signals. 4,691,246, 9-1-87, Cl. 358-310.000.

Miura, Kuniaki: *See*—
Kuwahara, Kazuyoshi; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, 4,713,700, Cl. 358-315.000.
Okada, Yoshinori; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, 4,667,120, Cl. 307-521.000.
Shiomi, Makoto; Miura, Kuniaki; Fukushima, Isao; Moro, Eiji; and Kanenari, Shigeaki, 4,667,168, Cl. 331-1.00R.

Miura, Kunihiko, to Kabushiki Kaisha Toshiba. Recording apparatus. 4,649,403, 3-10-87, Cl. 346-160.000.

Miura, Kunihiko, to Kabushiki Kaisha Toshiba. Printing apparatus. 4,707,715, 11-17-87, Cl. 346-160.000.

Miura, Kunihiko: *See*—
Nosaki, Takefumi; and Miura, Kunihiko, 4,647,950, Cl. 346-160.000.

Miura, Kyo, to Canon Kabushiki Kaisha. Method of consolidating fine pores of porous glass. 4,670,033, 6-2-87, Cl. 65-3.150.

Miura, Makoto: *See*—
Takayanagi, Yoshiaki; Ishida, Masato; and Miura, Makoto, 4,684,239, Cl. 355-14.00R.

Miura, Mariko: *See*—
Aoyama, Masaaki; Itabashi, Mitsuharu; Miura, Mariko; and Kohno, Masahiro, 4,696,905, Cl. 436-64.000.

Miura, Masaaki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Image reading device. 4,644,159, 2-17-87, Cl. 250-239.000.

Miura, Masakatsu; and Aoki, Hideyuki, to Aisin-Warner Kabushiki Kaisha. Automatic transmission mechanism. 4,711,138, 12-8-87, Cl. 74-761.000.

Miura, Masami; and Higashiyama, Naotoshi, to NEC Corporation. Circuit for detecting the level of noise in FM signal for use in AM/FM receiver. 4,674,121, 6-16-87, Cl. 381-10.000.

Miura, Masami, to NEC Corporation. AM/FM receiver with automatic tuning system. 4,688,264, 8-18-87, Cl. 455-168.000.

Miura, Masanobu, to Takiron Co., Ltd. Dot matrix luminous display. 4,713,579, 12-15-87, Cl. 313-500.000.

Miura, Masatoshi: *See*—
Fujita, Hideo; Saito, Yuichi; and Miura, Masatoshi, 4,638,205, Cl. 310-312.000.

Miura, Masayoshi, to Matsushita Electric Industrial Co., Ltd. Method and circuit arrangement for producing color picture signals for color reproduction. 4,665,435, 5-12-87, Cl. 358-80.000.

Miura, Masayoshi; and Iwasawa, Toshiyuki, to Matsushita Electric Industrial Co., Ltd. Method for operation of an ink jet printing head. 4,684,957, 8-4-87, Cl. 346-1.100.

Miura, Minoru: *See*—
Kajimura, Haruhiko; Nagano, Hiroo; and Miura, Minoru, 4,640,817, Cl. 420-50.000.
Kajimura, Haruhiko; Nagano, Hiroo; and Miura, Minoru, 4,671,929, Cl. 420-44.000.

Miura, Morikazu: *See*—
Mutoh, Yoshihiko; and Miura, Morikazu, 4,702,836, Cl. 210-500.230.

Miura, Nabuo; Ishii, Norihisa; and Ogawa, Sumitaka, to Honda Giken Kogyo Kabushiki Kaisha. Ignition timing control system for internal combustion engines. 4,671,237, 6-9-87, Cl. 123-418.000.

Miura, Noboru; and Hayashi, Yoshimasa, to Nissan Motor Co., Ltd. Boiling liquid engine cooling system. 4,658,764, 4-21-87, Cl. 123-41.120.

Miura, Nobuo; Ishii, Norihisa; and Ogawa, Sumitaka, to Honda Giken Kogyo Kabushiki Kaisha. Ignition timing control system for internal combustion engines. 4,643,150, 2-17-87, Cl. 123-418.000.

Miura, Nobuo: *See*—
Abe, Masao; and Miura, Nobuo, 4,679,540, Cl. 123-602.000.
Hoki, Tsuneo; and Miura, Nobuo, 4,652,590, Cl. 521-139.000.

Miura, Norio: *See*—
Aoki, Yuji; Horiuchi, Hidenaga; Umemoto, Akio; and Miura, Norio, 4,696,868, Cl. 428-690.000.

Miura, Osamu, to Tok Bearing Company, Inc. One way clutch. 4,660,698, 4-28-87, Cl. 192-45.000.

Miura, Shozuchi: *See*—
Tsutsui, Yoshio; Nakamura, Kiyoshi; Kimura, Akira; Imai, Hayato; Tamura, Kaoru; and Miura, Shozuchi, 4,700,283, Cl. 363-68.000.

Miura, Shuzo: *See*—
Sekizawa, Hidekazu; Yamada, Kiyoshi; Miura, Shuzo; and Hosaka, Yasuo, 4,663,662, Cl. 358-75.000.

Miura, Takanori: *See*—
Magami, Masato; Saeki, Kazumi; Miura, Takanori; and Inoue, Takeshi, 4,695,649, Cl. 560-86.000.

Miura, Takashi: *See*—
Gamoh, Akira; Miura, Takashi; Sawada, Toshiharu; and Kiyooka, Katsumi, 4,658,778, Cl. 123-195.00C.

Miura, Teiichi, to Alps Electric Co., Ltd. Switch device with pivoted interlock plate. 4,668,844, 5-26-87, Cl. 200-5.00E.

Miura, Teiichi, to Alps Electric Co., Ltd. Mechanism for preventing simultaneous locking of multi-column switches. 4,700,586, 10-20-87, Cl. 74-483.0PB.

Miura, Teiichi, to Alps Electric Co., Ltd. Simultaneous inter-row locking inhibiting mechanism for a multi-row interlocking switch device. 4,701,580, 10-20-87, Cl. 200-5.00E.

Miura, Toshiaki: *See*—
Takenaka, Hiroyuki; Shigemura, Tatsuhiko; Waseda, Masashi; Miura, Toshiaki; Hoshino, Noriyuki; and Nakashima, Mitsunori, 4,704,034, Cl. 356-429.000.

Miura, Yasuhisa; Kataoka, Yasuki; and Asada, Tohru, to Dainippon Ink and Chemicals, Inc. Process for producing iminoctadine 3-alkylbenzenesulfonates. 4,675,134, 6-23-87, Cl. 260-501.140.

Miura, Yasuhisa: *See*—
Yoshioka, Nobuyuki; Okunishi, Yasuji; Miura, Yasuhisa; Mori, Yoshikazu; Kataoka, Yasuki; and Adachi, Eiichi, 4,659,739, Cl. 514-555.000.

Miura, Yasunao, to Nippondenso Co., Ltd. Ceramic filters. 4,643,749, 2-17-87, Cl. 55-523.000.

Miura, Yasunao; Yoshida, Hitoshi; Takeuchi, Yukihisa; and Ito, Kazuyuki, to Nippondenso Co., Ltd. Process for producing porous ceramic body. 4,670,304, 6-2-87, Cl. 427-227.000.

Miura, Yasunao: *See*—
Hirayama, Tsukasa; Takeuchi, Yukihisa; and Miura, Yasunao, 4,662,911, Cl. 55-282.000.

Miura, Yoshio; Takayama, Chiharu; Fujishima, Tooru; Oku, Masao; Kawashima, Tooru; and Kudo, Yoshimichi, to Hitachi, Ltd. Control apparatus for optical video disk recorder/player. 4,669,072, 5-26-87, Cl. 369-44.000.

Miura, Yoshio; and Fukui, Yukio, to Hitachi, Ltd. Optical disc recording/reproducing apparatus with recorded track-section detector. 4,689,778, 8-25-87, Cl. 369-32.000.

Miura, Yoshio: *See*—
Inoue, Noboru; and Miura, Yoshio, 4,708,141, Cl. 128-334.00R.

Miura, Youzi: *See*—
Imura, Midori; Morijiri, Makoto; Hanazono, Masanobu; Kazui, Shinichi; Miura, Youzi; and Ogino, Hiroyuki, 4,659,587, Cl. 427-35.000.

Miura, Yukio; and Miyamoto, Yoshikazu, to Tokico Ltd. Control system for controlling the supply of a predetermined quantity of fluid. 4,637,525, 1-20-87, Cl. 222-22.000.

Miutel, Alexander; and Shira, Jerry P., to Phoenix Foam Inc. Fire retardant plastics material. 4,708,977, 11-24-87, Cl. 523-402.000.

Miwa, Gerald T.; Wang, Wen-Jen R.; and Walsh, John S., to Merck & Co., Inc. Non-mutagenic 1,2-disubstituted 4-nitro-imidazoles useful as antiprotozoal agents. 4,675,337, 6-23-87, Cl. 514-398.000.

Miwa, Gerald T.; and Walsh, John S., to Merck & Co., Inc. 1,2(1,4)-dimethyl-4(2)-(2-hydroxyethyl)-5-nitro-imidazole antiprotozoal agents with reduced mutagenicity. 4,678,799, 7-7-87, Cl. 514-398.000.

Miwa, Hiroaki: *See*—
Tajima, Tetsuo; Miwa, Hiroaki; Sudo, Ryoichi; and Horigome, Shinkichi, 4,668,550, Cl. 428-65.000.

Miwa, Hirohide: *See*—
Klepper, John R.; Reid, John M.; Miwa, Hirohide; Shimura, Takaki; and Murakami, Keiichi, 4,648,276, Cl. 73-599.000.
Shimura, Takaki; Murakami, Keiichi; Igarashi, Yutaka; Shiba, Akira; Hayashi, Hajime; Miwa, Hirohide; Inoue, Michitoshi; and Matsumoto, Masayuki, 4,655,228, Cl. 128-660.000.

Miwa, Junichi; and Kato, Minoru, to Kabushiki Kaisha Toshiba. Self turnoff type semiconductor switching device. 4,635,086, 1-6-87, Cl. 357-38.000.

Miwa, Junichi: *See*—
Ito, Hajime; and Miwa, Junichi, 4,708,891, Cl. 427-245.000.

Miwa, Kazuharu, to Tokai Metals Co., Ltd. Hydrophilic fins for a heat exchanger. 4,664,182, 5-12-87, Cl. 165-133.000.

Miwa, Kishio; Nagaoka, Yukiko; and Inoue, Takehisa, to Toray Industries, Inc. Process for separation of substituted benzene isomers. 4,698,453, 10-6-87, Cl. 585-828.000.

Miwa, Kishio; Kihara, Makoto; Sakaya, Kazuyuki; and Inoue, Takehisa, to Toray Industries, Inc. Absorption apparatus including rotary valve. 4,705,627, 11-10-87, Cl. 210-264.000.

Miwa, Kiyohito: *See*—
Kanno, Masashi; Komori, Katsufumi; Tatekawa, Masaichirou; Miwa, Kiyohito; and Takaoka, Iwane, 4,707,109, Cl. 355-7.000.

Miwa Lock Mfg. Co., Ltd.: *See*—
Tabata, Hiroshi, 4,656,850, Cl. 70-276.000.

Miwa, Naoto: *See*—
Hori, Makoto; Nagaya, Toshiatsu; Mukai, Hirokatsu; Niwa, Hitoshi; and Miwa, Naoto, 4,716,279, Cl. 219-541.000.
Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoto; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, 4,685,437, Cl. 123-549.000.
Yoshida, Hitoshi; Suzuki, Hirohumi; Oyobe, Kazuo; Nomura, Etsuji; Matsui, Kazuma; and Miwa, Naoto, 4,671,058, Cl. 60-303.000.

Miwa, Tadashi: *See*—
Hirota, Fumiyuki; Miwa, Tadashi; and Yamada, Yasushi, 4,705,265, Cl. 271-122.000.
Kimura, Kiyoshi; Okamoto, Yukio; Miwa, Tadashi; Fukuchi, Masakazu; Tarumi, Noriyoshi; and Ito, Kunio, 4,645,327, Cl. 355-3.00R.

Miwa, Takahiro; and Hibino, Yoshihiko, to Brother Kogyo Kabushiki Kaisha. Method and apparatus for recording information on magnetic disk. 4,644,421, 2-17-87, Cl. 360-66.000.

Miwa, Takashi: *See*—
Hinotani, Katsuhiro; Hayama, Hajime; Kishimoto, Shunichi; Miwa, Takashi; Funazo, Yasuo; and Kouno, Kazuhiro, 4,654,559, Cl. 313-422.000.

Miwa, Tamotsu: *See*—
Isoda, Sumiro; Suzuki, Norio; Miwa, Tamotsu; and Aibara, Shunzo, 4,652,646, Cl. 544-251.000.

Miwa, Yoshihisa, to Sharp Kabushiki Kaisha. Original document feeding arrangement. 4,634,263, 1-6-87, Cl. 355-14.0SH.

Miwa, Yoshihisa: *See*—
Anzai, Shunju; Miwa, Yoshihisa; and Okuda, Masakiyo, 4,688,924, Cl. 355-3.0SH.
Fujiwara, Katsuyoshi; Miwa, Yoshihisa; and Yoshiura, Shoichiro, 4,647,189, Cl. 355-55.000.
Fujiwara, Katsuyoshi; Miwa, Yoshihisa; and Yoshiura, Shoichiro, 4,682,877, Cl. 355-3.00R.

Miwa, Yoshitake: *See*—
Ohkuma, Kuniaki; Sakuma, Kazuyoshi; Miyao, Hisao; Yoshimura, Shinichi; Koizumi, Hideharu; and Miwa, Yoshitake, 4,688,978, Cl. 414-224.000.

Miwa, Yoshiyuki: *See*—
Ashitaka, Hidetomo; Jinda, Kazuya; and Miwa, Yoshiyuki, 4,684,717, Cl. 534-586.000.
Ashitaka, Hidetomo; Jinda, Kazuya; and Miwa, Yoshiyuki, 4,684,718, Cl. 534-586.000.

Miwada, Kazuo, to NEC Corporation. Circuit for detecting signal charges transferred in a charge transfer device. 4,700,085, 10-13-87, Cl. 307-350.000.

Miwada, Satoshi: *See*—
Kamura, Yukio; Nakano, Seizo; Tsubuki, Tohru; Miwada, Satoshi; and Amano, Naoki, 4,658,329, Cl. 361-332.000.

Mix, Jerome M.: *See*—
Cameron, Maclyn C., Jr.; Hu, Charles C.; and Mix, Jerome M., 4,661,720, Cl. 307-117.000.

Mixalloy Corporation: *See*—
Sanchez-Caldera, Luis E.; Suh, Nam P.; Chun, Jung-Hoon; Lee, Arthur K.; and Blackall, Frederick S., IV, 4,706,730, Cl. 164-135.000.

Mixan, Craig E.: *See*—
Werner, John A.; Wilson, Charles A.; and Mixan, Craig E., 4,636,565, Cl. 546-345.000.

Mixed Bag Imports, Inc.: *See*—
Weigert, Hans, 4,638,412, Cl. 362-156.000.

Mixon, David A.: *See*—
Brink, David L.; Merriman, Michael M.; and Mixon, David A., 4,706,903, Cl. 241-188.00R.

Mixon, James L., Jr.: *See*—
Kandybowski, Steven J.; and Mixon, James L., Jr., 4,647,129, Cl. 339-64.00M.

Mixon, Ronald M. Apparatus for setting a bottom tool. 4,688,635, 8-25-87, Cl. 166-162.000.

Miyaake, Chiharu: *See*—
Tsumura, Akio; Yamamoto, Suguru; and Miyaake, Chiharu, 4,684,256, Cl. 356-367.000.

Miyabara, Shinji: *See*—
Hori, Takako; Myokan, Isao; and Miyabara, Shinji, 4,684,631, Cl. 514-51.000.

Miyabayashi, Mitsutaka: *See*—
Hiratsuka, Kazuya; Sato, Yuichi; Aoki, Yoshiyasu; Yui, Hiroshi; Miyabayashi, Mitsutaka; and Itsuho, Akira, 4,702,977, Cl. 429-194.000.

Miyabayashi, Tadao: *See*—
Yagi, Motoi; and Miyabayashi, Tadao, 4,675,751, Cl. 360-10.100.
Yagi, Motoi; and Miyabayashi, Tadao, 4,680,631, Cl. 358-160.000.

Miyabayashi, Takeshi: *See*—
Tatematsu, Hiromu; and Miyabayashi, Takeshi, 4,696,861, Cl. 428-328.000.

Miyabayashi, Toshio; Sakabe, Nobuyuki; Udagawa, Yoshiyuki; Enyo, Hiroji; and Takemura, Yasuhiko, to Japan Synthetic Rubber Co., Ltd. Multi-component copolymer rubber, a process for producing the same and a rubber composition containing the multi-component copolymer rubber. 4,675,362, 6-23-87, Cl. 525-208.000.

Miyachi, Takeshi: *See*—
Nishimura, Norihisa; Suga, Yuko; Miyachi, Takeshi; and Masaki, Yuichi, 4,634,227, Cl. 350-334.000.

Miyada, Thomas S. Inertial safety system for cars. 4,635,962, 1-13-87, Cl. 280-749.000.

Miyada, Thomas S. Openable windshield system. 4,657,105, 4-14-87, Cl. 180-274.000.

Miyada, Thomas S. Anti-crime Spike-needle. 4,698,844, 10-13-87, Cl. 2-1.000.

Miyadera, Hiroshi: *See*—
Koyama, Shuntaro; Miyadera, Hiroshi; and Miyamoto, Tomohiko, 4,696,678, Cl. 48-201.000.

Miyadera, Kazuhiko; and Ohoka, Masahiko. Air diffusing register. 4,664,023, 5-12-87, Cl. 98-41.100.

Miyadera, Kazuhiko, to Toyota Jidosha Kabushiki Kaisha. Construction for mounting service hole blank cap of a console box. 4,690,241, 9-1-87, Cl. 180-315.000.

Miyadera, Kazuhiko, to Toyota Jidosha Kabushiki Kaisha. Console box for automobile. 4,691,960, 9-8-87, Cl. 296-37.800.

Miyadera, Tetsuo; Sugimura, Yukio; Tanaka, Teruo; Hashimoto, Toshihiko; Iino, Kimio; and Sugawara, Shinichi, to Sankyo Company Limited. 2-penem-3-carboxylic acid derivatives and use. 4,639,441, 1-27-87, Cl. 514-195.000.

Miyadera, Yasuo: *See*—
Fujioka, Atsushi; Miyadera, Yasuo; and Fukuda, Tomio, 4,707,316, Cl. 264-135.000.

Miyafuji, Motohisa; Nakashima, Yasuhiro; Katayama, Satoru; Matsui, Takashi; Harada, Hidekazu; and Yuki, Youji, to Kabushiki Kaisha Kobe Seiko Sho. Copper alloy and production of the same. 4,656,003, 4-7-87, Cl. 420-473.000.

Miyafuji, Motohisa; Yuchi, Tateo; and Tsuno, Riichi, to Kabushiki Kaisha Kobe Seiko Sho. Lead material for ceramic package IC. 4,687,633, 8-18-87, Cl. 420-481.000.

Miyagawa, Hideo: *See*—
Iwamoto, Katsuharu; Kawakami, Osamu; Miyagawa, Hideo; Tashiro, Ikuo; and Ishimura, Takiji, 4,687,927, Cl. 250-231.00P.

Miyagawa, Hiroharu: *See*—
Inoue, Kaoru; Miyagawa, Hiroharu; Itoh, Masayoshi; Abe, Tomohiro; Koizumi, Kyogo; and Yanagawa, Noriyuki, 4,667,048, Cl. 556-469.000.

Miyagawa, Junichi; Kamo, Tetuo; and Okada, Kazuichi, to Matsushita Electric Industrial Co., Ltd. Kitchen unit cooking stove having internal cooling system. 4,665,893, 5-19-87, Cl. 126-299.00D.

Miyagawa, Kenichiro; Doi, Muneharu; and Akiyama, Shun-ichi, to Takeda Chemical Industries, Ltd. Method of producing inosine and/or guanosine. 4,701,413, 10-20-87, Cl. 435-88.000.

Miyagawa, Kohzo: *See*—
Maruyama, Asao; and Miyagawa, Kohzo, 4,639,187, Cl. 414-787.000.

Miyagawa, Masashi: *See*—
Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; and Nishii, Kota, 4,657,843, Cl. 430-323.000.
Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; Nishi, Kota; and Matsuura, Azuma, 4,670,299, Cl. 427-96.000.

Miyagawa, Ryuji: *See*—
Takahata, Yasuyo; and Miyagawa, Ryuji, 4,694,092, Cl. 556-400.000.

Miyagawa, Teiji; Iwamura, Yoshio; and Hayakawa, Masao, to Ebara Corporation. Trip throttle valve. 4,696,452, 9-29-87, Cl. 251-25.000.

Miyagawa, Tomoyuki: *See*—
Nakano, Yoshihisa; Ohira, Masatoshi; Ushida, Manabu; Miyagawa, Tomoyuki; and Shimodaira, Toshiya, 4,635,959, Cl. 280-707.000.

Miyagawa, Toshihito: *See*—
Katsumoto, Naoaki; and Miyagawa, Toshihito, 4,715,655, Cl. 297-362.000.
Yamada, Yukifumi; Terada, Takami; and Miyagawa, Toshihito, 4,705,318, Cl. 297-362.000.

Miyagawa, Toshio: *See*—
Murata, Tsuneo; Hirata, Yoshihiro; Miyagawa, Toshio; and Nishikawa, Fumikazu, 4,670,791, Cl. 358-256.000.

Miyagawa, Tsugio: *See*—
Orihashi, Tadaaki; Tsuji, Hiroshi; Ogawa, Kazuhiko; Hayashitani, Masao; Terada, Seiji; Miyagawa, Tsugio; and Isozaki, Hideo, 4,673,486, Cl. 208-86.000.

Miyagawa, Tsutomu: *See*—
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,677,191, Cl. 528-361.000.
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,683,288, Cl. 528-361.000.

Miyagawa, Tuyoshi; Hibari, Eiko; and Kagami, Mitsuharu, to Laurel Bank Machine Co., Ltd. Bill counting machine. 4,677,682, 6-30-87, Cl. 382-7.000.

Miyagi, Ken, to Canon Kabushiki Kaisha. Image scanning apparatus. 4,635,129, 1-6-87, Cl. 358-285.000.

Miyagi, Ken, to Canon Kabushiki Kaisha. Image processing method or apparatus. 4,641,197, 2-3-87, Cl. 358-280.000.

Miyagi, Ken, to Canon Kabushiki Kaisha. Image reading apparatus. 4,641,199, 2-3-87, Cl. 358-285.000.

Miyagi, Kunihiko, to Kabushiki Kaisha Machida Seisakusho. Light quantity adjuster for endoscope apparatus. 4,706,657, 11-17-87, Cl. 128-6.000.

Miyagi, Masahiro: *See*—
Nozawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiko; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, 4,698,904, Cl. 29-726.000.

Miyagi, Morio; Ohno, Makoto; and Kanaizumi, Masaru, to Toyo Boseki Kabushiki Kaisha. Method of making a hollow fiber membrane for dialysis. 4,681,713, 7-21-87, Cl. 264-41.000.

Miyagi, Takeshi: *See*—
Yoshihara, Kunio; Sudo, Toshio; Iida, Atsuko; Miyagi, Takeshi; Saito, Tamio; and Oe, Shigeyuki, 4,644,093, Cl. 174-36.000.

Miyagi, Tokuya; Inoue, Akihisa; Hamada, Katushi; Fujimori, Shuichi; and Hori, Yoshihiro, to Kurashiki Boseki Kabushiki Kaisha. Fluoro-carbon filter element. 4,663,041, 5-5-87, Cl. 210-493.200.

Miyagi, Toshimi: *See*—
Ueno, Michio; Miyagi, Toshimi; and Yamaguchi, Seiji, 4,639,663, Cl. 323-356.000.

Miyagi, Yukio: *See*—
Seo, Akira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Nishimura, Akira; Konaka, Shigeo; Ohmi, Tetsuro; Munechika, Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, 4,636,519, Cl. 514-397.000.

Miyagishi, Akira: *See*—
Yamamoto, Michihiro; Ozato, Yukinori; Tamura, Nobuhiko; Miyagishi, Akira; and Hara, Yoiuchi, 4,705,786, Cl. 514-252.000.

Miyaguchi, Kanchisa: *See*—
Ideue, Kazuo; Oya, Masashi; Hayashi, Kanji; Egawa, Tsuneo; Shimazutsu, Hiroaki; Ibushi, Junichi; Yamamoto, Kunio;

Miyaguchi, Kanehisa; and Doho, Tamenari, 4,671,017, Cl. 51-49.000.

Miyahara, Hatsuo; Baba, Fumio; and Mochizuki, Hirohiko, to Fujitsu Limited. Semiconductor device having matched-timing dynamic circuit and static circuit. 4,672,372, 6-9-87, Cl. 340-825.200.

Miyahara, Hatsuo: *See*—
Baba, Fumio; Mochizuki, Hirohiko; and Miyahara, Hatsuo, 4,653,027, Cl. 365-189.000.

Miyahara, Junji: *See*—
Hosoi, Yuichi; Miyahara, Junji; Mori, Nobufumi; and Takahashi, Kenji, 4,651,220, Cl. 358-256.000.
Hosoi, Yuichi; Mori, Nobufumi; Takahashi, Kenji; and Miyahara, Junji, 4,694,171, Cl. 250-311.000.
Matsuda, Terumi; Aagano, Toshitaka; Miyahara, Junji; Nakajima, Nobuyoshi; and Saotome, Shigeru, 4,680,473, Cl. 250-484.100.
Mori, Nobufumi; Hosoi, Yuichi; Takahashi, Kenji; and Miyahara, Junji, 4,695,725, Cl. 250-327.200.
Mori, Nobufumi; Hosoi, Yuichi; Takahashi, Kenji; and Miyahara, Junji, 4,700,071, Cl. 250-327.200.

Miyahara, Kenji; and Sakiyama, Hisashi, to Mac Co., Ltd. Automatic surveying apparatus using a laser beam. 4,671,654, 6-9-87, Cl. 356-152.000.

Miyahara, Masahiko: *See*—
Himono, Yusaku; Moriya, Yoshiaki; Miyahara, Masato; and Suzuki, Kazuhiro, 4,695,124, Cl. 350-96.200.

Miyahara, Masayuki: *See*—
Ohkawara, Masaaki; Miyahara, Masayuki; and Ono, Yoshitaka, 4,675,236, Cl. 428-402.240.

Miyahara, Shinobu: *See*—
Iwamura, Yoshinari; Okimoto, Katsunori; Teshima, Toshio; Miyahara, Shinobu; Uchida, Shigetaka; Sera, Taizo; and Ozawa, Koichi, 4,646,977, Cl. 239-590.500.

Miyahara, Shuji: *See*—
Ichinoseki, Tsuyoshi; Kato, Hirobumi; Miyahara, Shuji; and Kimuro, Harumi, 4,655,847, Cl. 134-7.000.

Miyahara, Tsuneo; Harada, Yoshihiro; Futakami, Katsuyuki; Nishida, Yasukuni; and Konishi, Ryoko, to Lion Corporation. Caries-preventive composition. 4,693,888, 9-15-87, Cl. 424-49.000.

Miyahara, Tsuneo: *See*—
Yamazaki, Yoji; Okada, Toshiyuki; and Miyahara, Tsuneo, 4,661,342, Cl. 424-54.000.

Miyai, Kenji: *See*—
Takaya, Takao; Takasugi, Hisashi; Yamanaka, Hideaki; Miyai, Kenji; and Inoue, Yoshikazu, 4,639,448, Cl. 514-226.000.

Miyai, Kiyoshi; Uotani, Shuhei; and Tsunemine, Toyohiko, to Sanyo Electric Co., Ltd. Portable electrophotographic copy machine. 4,635,010, 1-6-87, Cl. 355-3.00R.

Miyai, Kiyoshi; Shuhei, Uotani; Tsunemine, Toyohiko; Kamitani, Yutaka; and Nakanishi, Yuji, to Sanyo Electric Co., Ltd. Image forming apparatus. 4,666,281, 5-19-87, Cl. 355-3.0SH.

Miyai, Masahiko: *See*—
Otake, Katsumoto; Miyai, Masahiko; Mukai, Yasuteru; and Okouchi, Isamu, 4,692,253, Cl. 210-791.000.

Miyai, Yoshitaka; Ooi, Kenta; and Kato, Shunsaku, to Director General of Agency of Industrial Science and Technology. Adsorbent for lithium and a method for the preparation thereof. 4,665,049, 5-12-87, Cl. 502-400.000.

Miyairi, Tsutomu: *See*—
Hirose, Tadashi; Sakoda, Kousuke; Kojima, Tomihiko; Akita, Hidehiko; and Miyairi, Tsutomu, 4,665,478, Cl. 364-200.000.

Miyaishi, Yoshinori: *See*—
Sakakibara, Shiro; Sobue, Norio; Miyaishi, Yoshinori; Koshiba, Sadahiro; and Hasebe, Masahiro, 4,655,735, Cl. 474-245.000.

Miyaji, Kenichi; Toda, Shouji; and Arai, Yoshinori, to Nippon Sanso Kabushiki Kaisha. Vacuum-heat-insulated cooking utensil and method of manufacturing same. 4,653,469, 3-31-87, Cl. 126-390.000.

Miyaji, Kenichi; Toida, Shouji; Ito, Seiichi; Iwasaki, Kazunori; and Kishida, Masatoshi, to Nippon Sanso Kabushiki Kaisha. Electrically heated vacuum bottle. 4,675,508, 6-23-87, Cl. 219-437.000.

Miyaji, Kenichi; Toida, Shouji; and Arai, Yoshinori, to Nippon Sanso Kabushiki Kaisha. Heat insulated cooking utensil. 4,684,057, 8-4-87, Cl. 228-187.000.

Miyaji, Naotaka: *See*—
Iwahara, Makoto; Miyaji, Naotaka; and Sakamoto, Atsushi, 4,696,043, Cl. 381-92.000.

Miyaji, Takashi, to Sharp Kabushiki Kaisha. Variable magnification copying apparatus. 4,710,018, 12-1-87, Cl. 355-8.000.

Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, to Citizen Watch Co., Ltd. Liquid crystal display television receiver. 4,652,932, 3-24-87, Cl. 358-236.000.

Miyajima, Akira: *See*—
Ito, Katsu; Shinabe, Munehiro; Miyajima, Akira; Hashimoto, Nobuyuki; Ohno, Hideshi; Tsuzuki, Akira; Morokawa, Shigeru; and Natori, Minoru, 4,663,670, Cl. 358-245.000.

Miyajima, Goh, to Hitachi, Ltd. Cylindrical magnet apparatus. 4,644,313, 2-17-87, Cl. 335-296.000.

Miyajima, Mikako: *See*—
Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, 4,704,459, Cl. 546-123.000.

Miyajima, Mikio: *See*—
Kayakabe, Hiroshi; Mitomi, Masaei; Miyajima, Mikio; Nakata, Shuji; Shimizu, Tadashi; Yoshito, Kazuharu; and Nishiu, Masamichi, 4,677,021, Cl. 428-306.600.

Miyajima, Nobuyuki; Hata, Kenji; and Nakayama, Junichi, to Lion Corporation; and Toyo Contact Lens Co., Ltd. Detergent composition for contact lenses. 4,710,313, 12-1-87, Cl. 252-105.000.

Miyajima, Shin: *See*—
Shibata, Yasuo; Takehara, Hideaki; and Miyajima, Shin, 4,704,326, Cl. 428-336.000.

Miyajima, Takeshi, to Hitachi Construction Machinery Co., Ltd. Method of measuring factor of stress concentration by utilizing ultrasound. 4,694,698, 9-22-87, Cl. 73-570.000.

Miyajima, Tamotsu; Tanaka, Noriatsu; and Saito, Nobuto, to Pilot Man-Hitsu Kabushiki Kaisha. Erasable ball-point pen ink. 4,687,791, 8-18-87, Cl. 523-161.000.

Miyakawa, Akira: *See*—
Kiyohara, Takehiko; Terasawa, Koji; and Miyakawa, Akira, 4,712,172, Cl. 346-1.100.
Nishida, Yoshie; Hata, Seiji; and Miyakawa, Akira, 4,680,802, Cl. 382-8.000.
Nishimuro, Yoshiaki; Hirata, Osamu; Kano, Kuniomi; Miyakawa, Akira; Fushimoto, Hideo; and Sekine, Kazumi, 4,698,783, Cl. 364-710.000.

Miyakawa, Eiji, to Miyakawa Industry Co., Ltd. Structure for installing a multispindle attachment on a drilling machine or the like. 4,650,376, 3-17-87, Cl. 408-42.000.

Miyakawa Industry Co., Ltd.: *See*—
Miyakawa, Eiji, 4,650,376, Cl. 408-42.000.

Miyakawa, Kazuo, to Yoshida Kogyo K. K. Method and apparatus for attaching fly strips to a slide fastener chain. 4,644,886, 2-24-87, Cl. 112-265.200.

Miyakawa, Masao. Timepiece. 4,679,945, 7-14-87, Cl. 368-238.000.

Miyakawa, Nobuaki; Yazawa, Yoshiaki; Ozeki, Shoichi; and Mitsumoto, Kinya, to Hitachi, Ltd.; and Hitachi Haramachi Semi-Conductor Ltd. Write circuit for use in semiconductor storage device. 4,665,505, 5-12-87, Cl. 365-177.000.

Miyakawa, Seiichi; Tatsumi, Susumu; and Sakamoto, Koji. Method and apparatus for detecting toner concentration of two-component dry developer. 4,640,129, 2-3-87, Cl. 73-866.000.

Miyakawa, Seiichi: *See*—
Mochizuki, Manabu; Ikeda, Itsuo; Kurotori, Tsuneo; Shinguryo, Satoshi; Miyakawa, Seiichi; Kobayashi, Yuichi; Nonaka, Mitsuhiro; and Fukuda, Haruhiko, 4,669,859, Cl. 355-10.000.

Miyakawa, Tadashi; Monma, Yoshiyuki; Rikuishi, Yuji; and Seto, Hideo, to Fuji Photo Film Co., Ltd. Thermal developing apparatus. 4,665,303, 5-12-87, Cl. 219-216.000.

Miyakawa, Tadashi, to Fuji Photo Film Co., Ltd. Method of correcting phosphor luminance unevenness in a color fiber optic cathode-ray tube. 4,670,778, 6-2-87, Cl. 358-75.000.

Miyakawa, Tadashi, to Fuji Photo Film Co., Ltd. Method for adjusting density of color picture in color picture output device. 4,687,334, 8-18-87, Cl. 356-404.000.

Miyakawa, Tadashi, to Fuji Photo Film Co., Ltd. Method for scanning fiber optic tube. 4,687,974, 8-18-87, Cl. 315-375.000.

Miyakawa, Yoshitaka, to Honda Giken Kogyo Kabushiki Kaisha. Pressure switch including a special seal member. 4,644,116, 2-17-87, Cl. 200-83.00R.

Miyake, Akio; Kondo, Masahiro; and Fujino, Masahiko, to Takeda Chemical Industries, Ltd. 3-pyrazolo[1,5-a]pyridinium cephem compounds. 4,665,065, 5-12-87, Cl. 574-202.000.

Miyake, Akira; and Funahashi, Masaya, to Hitachi Maxell, Ltd. Magnetic recording medium. 4,647,502, 3-3-87, Cl. 428-323.000.

Miyake, Akira: *See*—
Funahashi, Masaya; Miyata, Teruhisa; Inoue, Kenichi; Miyake, Akira; and Norimatsu, Kohji, 4,690,864, Cl. 428-336.000.
Funahashi, Masaya; Miyata, Teruhisa; Inoue, Kenichi; and Miyake, Akira, 4,696,869, Cl. 428-695.000.
Miyata, Teruhisa; Miyake, Akira; and Funahashi, Masaya, 4,666,769, Cl. 428-323.000.

Miyake, Atsushi: *See*—
Kitaya, Katsuhiko; Iida, Naohiro; Miyake, Atsushi; Kobayashi, Mitsuo; and Shirai, Akira, 4,685,180, Cl. 29-33.00R.
Okafuji, Masaharu; Ochi, Yoshinori; Miyake, Atsushi; Noguchi, Junichi; and Matsuo, Ichiro, 4,696,713, Cl. 156-358.000.

Miyake, Eiichi, to Hakuto Co., Ltd.; and Sanei Giken Co., Ltd. Laminator for sticking film sheet on panel surface. 4,659,419, 4-21-87, Cl. 156-522.000.

Miyake, Eiichi. Vapor phase processing apparatus. 4,676,069, 6-30-87, Cl. 62-54.000.

Miyake, Hideharu: *See*—
Sugano, Takuo; Okabe, Yoichi; Miyake, Hideharu; and Fukaya, Naoki, 4,678,945, Cl. 307-476.000.

Miyake, Hidekazu: *See*—
Fujimura, Hajime; Hiramatu, Yasuzo; Yabuuchi, Takahiro; Hisaki, Masakatu; Takikawa, Katsuo; Honna, Takaji; Miyake, Hidekazu; and Kajitani, Makoto, 4,666,911, Cl. 514-255.000.

Miyake, Hideo: *See*—
Sakata, Kazuhiko; and Miyake, Hideo, 4,666,756, Cl. 428-202.000.

Miyake, Hiroshi, to Daihatsu Motor Company Limited. Fuel-injection nozzle. 4,715,540, 12-29-87, Cl. 239-533.300.

Miyake, Hitomi: *See*—
Tamba, Shinichi; Miyake, Hitomi; and Fukui, Noboru, 4,662,322, Cl. 123-41.860.

inichi; Miyake, Hitomi; Fukui, Noboru; and Miguchi, 81,067, Cl. 123-41.100.

Kaneko, Kiyotaka; Nakadai, Katsuo; and Oda, Kazuya, Film Co., Ltd. Tracking apparatus for rotary recording he basis of envelope detection. 4,689,700, 8-25-87, Cl.

to Fuji Photo Film Co., Ltd. Playback apparatus for ing medium. 4,698,702, 10-6-87, Cl. 360-33.100.

Kaneko, Kiyotaka; and Oda, Kazuya, to Fuji Photo . Method of protecting a magnetic recording medium in recording/playback system and apparatus therefor. 20-87, Cl. 360-71.000.

See—

iyotaka; Nakadai, Katsuo; Miyake, Izumi; and Oda, 4,677,506, Cl. 360-77.000.

See—

uichi; Miyake, Johji; Koyama, Mototsugu; and Sakagu-, 4,695,329, Cl. 148-3.000.

, to Honda Giken Kogyo Kabushiki Kaisha. Creep ntrol device for automatic transmission apparatus for s. 4,653,622, 3-31-87, Cl. 192-0.052.

See—

hi; Miyake, Junichi; and Nishikawa, Masao, 4,651,593, .000.

Masao; Sakai, Shinzo; and Miyake, Junichi, 4,533,737, .000.

Masao; Miyake, Junichi; and Sakurai, Yoshimi, Cl. 192-0.073.

Masao; Miyake, Junichi; Sakurai, Yoshimi; and Fukuda, 4,700,819, Cl. 192-3.620.

See—

o; Ugai, Yasuhiro; Miyake, Katsumi; and Okamoto, 687,298, Cl. 350-334.000.

obu; Horii, Hiroshi; and Ikoma, Kenji, to Kurimoto, sing for use in a butterfly valve. 4,669,499, 6-2-87, Cl.

, to Akebono Brake Industry Co., Ltd. Antiskid con-,652,060, 3-24-87, Cl. 303-96.000.

ri, to Sharp Kabushiki Kaisha. Disk storing system for 682,313, 7-21-87, Cl. 369-39.000.

; and Kaneko, Hiroko, to Ricoh Company, Ltd. Elec-splay device. 4,699,471, 10-13-87, Cl. 350-357.000.

See—

n-Ichiro; Murakami, Eiichi; Warabisako, Terunori; iyoshi; and Sunami, Hideo, 4,683,838, Cl. 118-715.000.

See—

uke; Shinmitsu, Kazuyuki; Kanda, Nobuo; Kondo, nd Miyake, Makoto, 4,704,379, Cl. 503-211.000.

See—

; Miyake, Masaya; and Yazu, Shuji, 4,686,080, Cl.

tsuo; Miyake, Masaya; Takeuchi, Hisao; and Kamijo, 508, Cl. 252-516.000.

tsuo; Miyake, Masaya; Nakano, Minoi; Asai, Tsuyoshi; Akio, 4,639,352, Cl. 419-15.000.

o: *See*—

; and Miyake, Nobuhiko, 4,696,587, Cl. 384-536.000.

See—

obu; and Miyake, Shinichi, 4,681,400, Cl. 350-96.240.

, to Toyota Jidosha Kabushiki Kaisha. Internal com-e having a mechanical supercharger. 4,708,119, 23-559.000.

sa; Katagi, Tsutomu; and Shinozuka, Toshinobu, to dustrial Co., Ltd. Home position setting system for a 4,669,900, 6-2-87, Cl. 400-322.000.

sa, to Tokyo Juki Industrial Co. Ltd. Carriage feed d for bold and shadow printing. 4,688,956, 8-25-87, Cl.

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Osamu; and Miyake, Toshifumi, 4,693,378, Cl. 3.

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et; Masuda, Yoshifumi; and Miyake, Toshihide, Cl. 356-45.000.

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mi; and Miyake, Toshio, 4,683,150, Cl. 427-239.000.

mi; and Miyake, Toshio, 4,685,597, Cl. 222-389.300.

Shibuya, Takashi; and Miyake, Toshio, 4,652,640, Cl. .

ajima, Osamu; Nishioka, Masato; and Itoh, Yasuhiko, tric Co., Ltd. Fuel cell power system. 4,686,157, 9-19.000.

ni; and Sakka, Sumio, to Risho Kogyo Co., Ltd. Resin ound for sealing electronic parts. 4,683,253, 7-28-87, .

Nohara, Isao; Sugioka, Takami; Onishi, Susumu; and ki, to Teijin Seiki Co., Ltd. Spindle drive type yarn tus. 4,715,548, 12-29-87, Cl. 242-18.00R.

; and Egami, Tsuneyuki, to Nippondenso Co., Ltd.; Inc.; and Toyota Jidosha Kabushiki Kaisha, a part d and apparatus for controlling an engine. 4,642,773, -431.050.

; and Fujisawa, Hideya, to Nippondenso Co., Ltd. paratus for controlling fuel injection timing. 4,656,990, -494.000.

Miyaki, Masahiko: *See*—

Hishinuma, Osamu; Masuda, Akira; Ohmori, Toshihiko; Miyaki, Masahiko; and Takemoto, Eiji, 4,671,239, Cl. 123-458.000.

Kondo, Toshio; Kobayashi, Akio; Hiromasa, Shunichiro; Masuda, Akira; and Miyaki, Masahiko, 4,649,745, Cl. 73-204.000.

Konishi, Yoshimune; Hobo, Nobuhito; Tsuzuki, Yoshihiko; Kameoka, Narutoshi; Miyaki, Masahiko; and Koide, Hiroshi, 4,653,454, Cl. 123-506.000.

Miyaki, Munekazu: *See*—

Kanno, Haruki; Tsuyoshi, Hidekazu; Nishinakagawa, Kou; Hara, Makoto; Mochida, Tetsuo; Hisaka, Tsugio; Miyaki, Munekazu; Kawarada, Minoru; and Kawarabayashi, Hideaki, 4,643,617, Cl. 405-222.000.

Miyaki, Takeo: *See*—

Tsunakawa, Mitsuaki; Konishi, Masataka; and Miyaki, Takeo, 4,683,230, Cl. 314-214.000.

Miyako, Shunichi; and Horiuchi, Hiroyuki, to Sharp Kabushiki Kaisha. Printer for selectively receiving cut paper or roll paper. 4,664,544, 5-12-87, Cl. 400-605.000.

Miyakoshi Printing Machinery Co., Ltd.: *See*—

Kishine, Toshiaki; Izawa, Hideo; and Ohba, Masaru, 4,690,051, Cl. 101-211.000.

Kishine, Toshiaki; Izawa, Hideo; and Ohba, Masaru, 4,706,566, Cl. 101-426.000.

Yamagishi, Kenichi; and Mori, Katsuyuki, 4,643,092, Cl. 101-350.000.

Miyakoshi, Shinichi, to Honda Giken Kogyo Kabushiki Kaisha. Three-wheeled motor vehicle. 4,690,235, 9-1-87, Cl. 180-210.000.

Miyakusu, Katsuhisa: *See*—

Maruhashi, Shigeaki; Hoshino, Kazuo; Uematsu, Yoshihiro; Miyakusu, Katsuhisa; and Fujimura, Takehiko, 4,652,428, Cl. 420-42.000.

Miyama, Hiroshi: *See*—

Tomii, Kaoru; Miyama, Hiroshi; Kawauchi, Yoshikazu; and Nishida, Jun, 4,703,231, Cl. 315-366.000.

Miyama, Kanemitsu: *See*—

Ono, Hiroshi; Miyama, Kanemitsu; and Kasuga, Takaharu, 4,654,445, Cl. 568-454.000.

Miyamae, Hiroshi; and Banno, Makoto, to Konishiroku Photo Industry Co., Ltd. Telecentric zoom lens system. 4,637,690, 1-20-87, Cl. 350-427.000.

Miyamae, Isamu: *See*—

Tanaka, Yukio; Miyatake, Toshiya; Kitera, Takuya; and Miyamae, Isamu, 4,646,768, Cl. 134-167.00R.

Miyamae, Shigehiro; and Abe, Takayuki, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Different fuels combustion burner. 4,657,505, 4-14-87, Cl. 431-284.000.

Miyamaru, Yukio; Kawada, Shigeo; Hatanaka, Kaoru; and Shibata, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Automatic direction indicator cancelling apparatus. 4,644,318, 2-17-87, Cl. 340-73.000.

Miyamaru, Yukio; Hatanaka, Kaoru; Kawada, Shigeo; and Shibata, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Turn signal cancelling apparatus for use in vehicles. 4,660,020, 4-21-87, Cl. 340-134.000.

Miyamori, Hideharu: *See*—

Seko, Maomi; Takemura, Reiji; and Miyamori, Hideharu, 4,643,818, Cl. 204-253.000.

Miyamori, Nobuyuki; Tomofuji, Yoshiaki; Izawa, Kiyosato; and Tsuchida, Youichi, to Wacom Co., Ltd. Electronic blackboard apparatus. 4,711,977, 12-8-87, Cl. 178-18.000.

Miyamori, Shigeo: *See*—

Sugiyama, Norihide; Funato, Katsuro; Nagase, Hiroshi; Yamamoto, Seiichi; and Miyamori, Shigeo, 4,702,989, Cl. 430-137.000.

Miyamori, Shinji: *See*—

Sigiki, Hiraku; Yamada, Makoto; and Miyamori, Shinji, 4,714,971, Cl. 360-77.000.

Miyamoto, Akira; Nishimura, Toshiaki; Yamagishi, Yoshitaka; and Higuchi, Yasumitsu, to Mitsubishi Gas Chemical Company, Inc. Highly reactive aromatic hydrocarbon-formaldehyde resin and process for preparing the same. 4,689,392, 8-25-87, Cl. 528-247.000.

Miyamoto, Fumiyuki: *See*—

Nakajima, Hiroyuki; Miyamoto, Fumiyuki; Murayama, Masakazu; and Jidai, Eiki, 4,652,619, Cl. 525-502.000.

Miyamoto, Hidenori: *See*—

Wakabayashi, Hiroshi; Miyamoto, Hidenori; and Terunuma, Hiroshi, 4,668,070, Cl. 354-484.000.

Miyamoto, Hiroshi; Mashiko, Koichiro; Kobayashi, Toshifumi; and Yamada, Michihiro, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor memory device. 4,689,770, 8-25-87, Cl. 365-149.000.

Miyamoto, Hiroshi, to ORC Manufacturing Co., Ltd. Parallel light moving type exposure apparatus. 4,707,773, 11-17-87, Cl. 362-303.000.

Miyamoto, Hiroshi: *See*—

Mashiko, Koichiro; Yamada, Michihiro; Arimoto, Kazutami; Miyamoto, Hiroshi; Kobayashi, Toshifumi; and Morooka, Yoshikazu, 4,641,281, Cl. 365-189.000.

Miyamoto, Hisashi: *See*—

Tone, Hitoshi; Miyamoto, Hisashi; Ueda, Hiraki; and Nakagawa, Kazuyuki, 4,684,648, Cl. 514-249.000.

Miyamoto, Isao: *See*—

Yamano, Shoji; and Miyamoto, Isao, 4,676,325, Cl. 177-1.000.

Yamano, Shoji; and Miyamoto, Isao, 4,706,766, Cl. 177-1.000.

Yamano, Shoji; and Miyamoto, Isao, 4,709,769, Cl. 177-1.000.

Miyamoto, Junichi; and Iizuka, Tetsuya, to Tokyo Shibaura Denki Kabushiki Kaisha. Floating gate type EEPROM with a substrate region used for the control gate. 4,642,673, 2-10-87, Cl. 357-23.500.

Miyamoto, Junichi, to Kabushiki Kaisha Toshiba. Sense amplifier circuit for semiconductor memory device. 4,658,159, 4-14-87, Cl. 307-530.000.
Miyamoto, Junichi, and Tsujimoto, Jun-ichi, to Kabushiki Kaisha Toshiba. Semiconductor memory device. 4,680,735, 7-14-87, Cl. 365-210.000.
Miyamoto, Jonichi, and Tsujimoto, Jun-ichi, to Kabushiki Kaisha Toshiba. Programmable semiconductor memory device with combined sense amplification and programming capability. 4,694,427, 9-15-87, Cl. 365-185.000.
Miyamoto, Katsuhito, Kubodera, Noboru, Ochi, Kiyoshige, Matsunaga, Isao, and Murayama, Eigoro, to Chugai Seiyaku Kabushiki Kaisha. Vitamin D_3 derivatives having a substituent at 2-position. 4,666,634, 5-19-87, Cl. 260-397.200.
Miyamoto, Kazuchiyo. *See*—
Ohta, Harutaka; Miyamoto, Kazuchiyo; Terayama, Arataro; Maruhashi, Seiji; and Gohdo, Shigeru, 4,708,082, Cl. 114-230.000.
Miyamoto, Kazuhiro. *See*—
Inoue, Atsuo; Miyamoto, Kazuhiro; Hisada, Nobuo; and Okinaga, Nobuyuki, 4,698,105, Cl. 149-2.000.
Suda, Fumiyuki; Yasui, Masaru; and Miyamoto, Kazuhiro, 4,686,165, Cl. 430-69.000.
Miyamoto, Keiichi. *See*—
Kohari, Yuji; and Miyamoto, Keiichi, 4,678,056, Cl. 180-247.000.
Miyamoto, Kiyoshi, to Omron Tateisi Electronics Co. Proximity switch with improved response time and antimagnetic field circuitry. 4,638,262, 1-20-87, Cl. 331-65.000.
Miyamoto, Kiyoshi, to Omron Tateisi Electronics Co. Electronic switching device. 4,710,699, 12-1-87, Cl. 323-324.000.
Miyamoto, Kiyoshi. *See*—
Masaki, Akio; Moriyasu, Yoshiro; Ueda, Kenji; and Miyamoto, Kiyoshi, 4,654,471, Cl. 174-50.000.
Masaki, Akio; Moriyasu, Yoshio; Ueda, Seiji; Miyamoto, Kiyoshi; and Matsuoka, Yasushi, 4,704,524, Cl. 250-239.000.
Miyamoto, Koichi. *See*—
Komori, Shigehiro; Sakamaki, Hisashi; Hattori, Hiroyuki; Iida, Tosahide; Miyamoto, Koichi; and Umezawa, Kazumi, 4,662,740, Cl. 355-3.05H.
Miyamoto, Makoto. *See*—
Kato, Takayuki; and Miyamoto, Makoto, 4,677,374, Cl. 324-65.00R.
Kato, Takayuki; and Miyamoto, Makoto, 4,686,453, Cl. 324-65.00R.
Miyamoto, Masaaki. *See*—
Kohyama, Katsuhisa; Miyamoto, Masaaki; Nakanishi, Hidemi; and Koga, Norimichi, 4,684,713, Cl. 528-315.000.
Miyamoto, Masao. *See*—
Ishimaru, Hajime; Miyamoto, Masao; and Komaki, Shojiro, 4,715,186, Cl. 62-45.000.
Watanabe, Fumio; Komaki, Shojiro; Miyamoto, Masao; and Ito, Takao, 4,695,724, Cl. 250-292.000.
Miyamoto, Masasi. *See*—
Matsuda, Takeshi; Miyamoto, Masasi; and Takei, Toshihiro, 4,692,092, Cl. 415-143.000.
Miyamoto, Mitsuya; Ozeki, Yasuyuki; and Nabae, Motohiro, to Furukawa Aluminum Co., Ltd. Anodized memory disk substrate and method of manufacturing the same. 4,678,547, 7-7-87, Cl. 204-37.100.
Miyamoto, Naoki. *See*—
Kawamura, Takao; Iwano, Hideaki; Miyamoto, Naoki; and Nishiguchi, Yasuo, 4,666,808, Cl. 430-65.000.
Kawamura, Takao; Iwano, Hideaki; Miyamoto, Naoki; and Nishiguchi, Yasuo, 4,675,264, Cl. 430-65.000.
Kawamura, Takao; Ejima, Keibun; Miyamoto, Naoki; Higuchi, Hisashi; and Nishiguchi, Yasuo, 4,689,284, Cl. 430-84.000.
Miyamoto, Osamu; and Sainen, Tsutomu, to Tsudakoma Kogyo Kabushiki Kaisha. Controller for an automatic repair unit which corrects abnormal weaving operation on a loom. 4,662,406, 5-5-87, Cl. 139-1.00R.
Miyamoto, Ritsu, to Victor Company of Japan, Ltd. Tape cassette loading and ejecting device in a magnetic recording and/or reproducing apparatus. 4,642,714, 2-10-87, Cl. 360-96.500.
Miyamoto, Ryoichi. *See*—
Fukasawa, Atsushi; Hosoda, Kenichiro; Miyamoto, Ryoichi; Ando, Hiromi; and Kawaguchi, Shinji, 4,660,163, Cl. 364-724.000.
Miyamoto, Satoshi, and Nagatani, Masamichi, to Amchem Products, Inc. Zinc phosphating method. 4,639,295, 1-27-87, Cl. 204-38.100.
Miyamoto, Seigo. *See*—
Sayo, Kosaku; Tani, Seijiro; Miyamoto, Seigo; Emi, Kenji; and Fukushima, Toshihiko, 4,653,288, Cl. 62-210.000.
Miyamoto, Seiichi. *See*—
Okumura, Mitsuhiro; Naya, Eizo; Harima, Mitsuhiro; Murakami, Shoji; and Miyamoto, Seiichi, 4,677,264, Cl. 200-144.00B.
Miyamoto, Shigemi. *See*—
Nina, Akihiko; Ohira, Tatsuo; and Miyamoto, Shigemi, 4,671,941, Cl. 422-131.000.
Miyamoto, Shoji. *See*—
Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; Sasaki, Toshiro; Miyamoto, Shoji; and Nakajima, Takashi, 4,658,361, Cl. 364-434.000.
Kosaka, Michitaka; Kawano, Katsumi; and Miyamoto, Shoji, 4,713,765, Cl. 364-460.000.
Mori, Kinji; Miyamoto, Shoji; and Ihara, Hirokazu, 4,672,373, Cl. 340-825.050.
Mori, Kinji; Miyamoto, Shoji; and Ihara, Hirokazu, 4,698,629, Cl. 340-825.050.
Nohmi, Makoto; Miyamoto, Shoji; Takaoka, Tadashi; and Oshima, Hiroyasu, 4,684,859, Cl. 318-317.000.
Orimo, Masayuki; Mori, Kinji; and Miyamoto, Shoji, 4,677,615, Cl. 370-89.000.
Sasaki, Toshiro; Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; and Miyamoto, Shoji, 4,680,718, Cl. 364-455.000.
Yabushita, Masaharu; Nohmi, Makoto; Fujikura, Nobuyuki; Miyamoto, Shoji; and Ihara, Hirokazu, 4,641,237, Cl. 364-200.000.
Miyamoto, Shunsuke. *See*—
Nishida, Takao; Hiyama, Toru; Moriwaki, Kaoru; Ishiyama, Shuji; and Miyamoto, Shunsuke, 4,703,257, Cl. 324-73.00R.
Miyamoto, Takanori. *See*—
Nakata, Kazuo; and Miyamoto, Takanori, 4,653,098, Cl. 381-49.000.
Miyamoto, Takeaki. *See*—
Inagaki, Hiroshi; Miyamoto, Takeaki; Ito, Hiraku; and Shibata, Tohru, 4,708,951, Cl. 514-57.000.
Noshiki, Yasuharu; Koshiara, Kazuhiko; Furuse, Masayasu; Miyata, Teruo; Miyamoto, Takeaki; and Ito, Hiraku, 4,690,973, Cl. 525-54.100.
Miyamoto, Takeshi; Ura, Mikio; Kazama, Shigenori; Kase, Takao; and Maeda, Yoshiko, to Nissan Motor Co., Ltd. Electrochromic device. 4,645,307, 2-24-87, Cl. 350-357.000.
Miyamoto, Teruyuki. *See*—
Matsumoto, Jun-ichi; Miyamoto, Teruyuki; Uno, Hitoshi; and Nakamura, Shinichi, 4,649,144, Cl. 514-300.000.
Miyamoto, Tetsuya; Omura, Takashi; Harada, Naoki; and Takeshita, Akira, to Sumitomo Chemical Company, Limited. Fiber-reactive phthalocyanine compound having both vinylsulfone type and dihalogenotriazinyl groups. 4,664,721, 8-4-87, Cl. 540-126.000.
Miyamoto, Tetsuya. *See*—
Nakamatsu, Toshio; Miyamoto, Tetsuya; and Imaida, Kunihiko, 4,711,641, Cl. 8-524.000.
Miyamoto, Tomohiko. *See*—
Koyama, Shuntaro; Miyadera, Hiroshi; and Miyamoto, Tomohiko, 4,696,678, Cl. 48-201.000.
Miyamoto, Toshinobu; Sakurai, Hideya; Hayashi, Hiroo; and Ohtsuka, Youichi, to Sumitomo Special Metal Co., Ltd. Magnetic field generating device for NMR-CT. 4,672,346, 6-9-87, Cl. 335-296.000.
Miyamoto, Toshinobu; Hayashi, Hiroo; Sakurai, Hideya; Takabayashi, Hirofumi; and Ohtsuki, Youichi, to Sumitomo Special Metal Co. Ltd. Magnetic field generating device for NMR-CT. 4,679,022, 7-7-87, Cl. 335-296.000.
Miyamoto, Toshio. *See*—
Matsuno, Yoshio; Miyamoto, Toshio; and Morita, Heleyo, 4,707,505, Cl. 523-203.000.
Miyamoto, Toshiyuki. *See*—
Takano, Kunio; Nukushima, Masanori; and Miyamoto, Toshiyuki, 4,665,846, Cl. 112-121.120.
Takano, Kunio; Nukushima, Masanori; Okiyama, Yoichi; and Miyamoto, Toshiyuki, 4,691,649, Cl. 112-121.120.
Miyamoto, Yasuhiko, to Fuji Jukogyo Kabushiki Kaisha. Fuel cock for an internal combustion engine. 4,694,810, 9-22-87, Cl. 123-516.000.
Miyamoto, Yasuo. *See*—
Yoshida, Hiroshi; Toyoshima, Takefumi; Iwabori, Tomio; Ohkura, Hideaki; Miyamoto, Yasuo; Nishimura, Izumi; Ohkawa, Toshiyuki; Sekijima, Kenji; and Ohashi, Makoto, 4,709,898, Cl. 248-562.000.
Miyamoto, Yoshikazu. *See*—
Miura, Yukio; and Miyamoto, Yoshikazu, 4,637,525, Cl. 222-22.000.
Miyamoto, Yoshimi. *See*—
Nakamura, Naotaka; Miyamoto, Yoshimi; Momiyama, Motokazu; Tsuban, Toshiji, deceased; Teratani, Tatsuo; and Ishihara, Nobuyuki, 4,652,705, Cl. 200-19.00R.
Miyamoto, Yoshinori. *See*—
Takeuchi, Koichi; Yamanaka, Megumi; Inada, Hisamoto; Kubo, Masayoshi; Katayama, Hideaki; Tokunaga, Kenji; and Miyamoto, Yoshinori, 4,649,780, Cl. 82-48.000.
Miyamoto, Yukio. *See*—
Goto, Motoo; Kono, Hiroshi; Asao, Haruhiko; Miyamoto, Yukio, and Igarashi, Toshihiko, 4,711,433, Cl. 266-222.000.
Miyamura, Katsunori. *See*—
Ueno, Takashi; Abo, Toshimi; and Miyamura, Katsunori, 4,702,080, Cl. 60-602.000.
Miyamura, Tadashi. *See*—
Iwahashi, Tohru; Suzami, Yoshihiko; and Miyamura, Tadashi, 4,671,907, Cl. 264-29.500.
Miyamura, Tamio; and Ohkawa, Takashi, to Fujitsu Limited. Semiconductor memory device with increased adaptability. 4,694,431, 9-15-87, Cl. 365-189.000.
Miyanaga, Masaaki, to Kabushiki Kaishi Miyanaga. Undercutting drill. 4,635,737, 1-13-87, Cl. 175-284.000.
Miyanagi, Naoki. *See*—
Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.
Miyano, Hideyo; Kobayashi, Atsushi; Suzuki, Shigeru; and Ichida, Katsumi, to Honda Giken Kogyo Kabushiki Kaisha. Intake system for internal combustion engine. 4,664,076, 5-12-87, Cl. 123-52.0MB.
Miyano, Hideyo. *See*—
Ichida, Katsumi; Miyano, Hideyo; and Suzuki, Shigeru, 4,669,428, Cl. 123-52.0MB.
Ohtaka, Shoichi; Miyano, Hideyo; Naiya, Yoshio; and Kondo, Yukio, 4,667,647, Cl. 123-573.000.
Miyano, Kazuyoshi, to Inoue-Japax Research Incorporated. Traveling wire electroerosion machine with swiveling nozzle assembly. 4,704,511, 11-3-87, Cl. 219-69.00W.

Miyano, Masaji: *See*—
Wakuda, Katsumi; and Miyano, Masaji, 4,667,563, Cl. 84-439.000.

Miyano, Masateru; Shone, Robert L.; and Sohn, Daniel D., to G. D Searle & Co. Substituted dihydrobenzopyrans useful as leukotriene D_4 inhibitors. 4,665,203, 5-12-87, Cl. 549-402.000.

Miyano, Masateru; and Deason, James R., to G. D. Searle & Co. Phenolic ester derivatives as elastase inhibitors. 4,683,241, 7-28-87, Cl. 514-512.000.

Miyano, Seiji: *See*—
Kazono, Masayasu; Hayashi, Motohide; Suzuki, Tsunemasa; Miura, Kenji; Kumagai, Yoshihiro; Matsumoto, Yukiharu; Miyano, Seiji; and Sumoto, Kunihiro, 4,678,801, Cl. 514-413.000.
Tatsuoka, Toshio; Suzuki, Kenji; Imao, Kayoko; Satoh, Fumio; Miyano, Seiji; and Sumoto, Kunihiro, 4,713,453, Cl. 544-60.000.

Miyano, Tadashi: *See*—
Komatsu, Michiyasu; Miyano, Tadashi; Ando, Akio; Nakanishi, Masae; and Fujimoto, Yuuji, 4,671,912, Cl. 264-63.000.

Miyao, Fumio, to Fuji Xerox Co., Ltd. Composite data transmission system. 4,710,918, 12-1-87, Cl. 370-85.000.

Miyao, Hisao: *See*—
Ohkuma, Kunaki; Sakuma, Kazuyoshi; Miyao, Hisao; Yoshimura, Shinichi; Koizumi, Hideharu; and Miwa, Yoshitake, 4,638,978, Cl. 414-224.000.
Ohkuma, Kunaki; Nakagawa, Reiji; Miyao, Hisao; Yoshimura, Shinichi; Suzuki, Toshio; Hayashi, Toyoaki; Arakawa, Masayasu; and Koizumi, Hideharu, 4,714,397, Cl. 414-222.000.

Miyao, Ichiro: *See*—
Kawakita, Takao; and Miyao, Ichiro, 4,689,919, Cl. 51-206.00P.

Miyao, Kunihiko: *See*—
Uchikawa, Fusaoki; Takeuchi, Morihisa; Shimamoto, Kozo; Miyao, Kunihiko; Momiyama, Kimio; and Watarai, Hisao, 4,673,910, Cl. 338-35.000.

Miyao, Masanobu: *See*—
Warabeako, Terunori; Ohkura, Makoto; and Miyao, Masanobu, 4,695,856, Cl. 357-4.000.

Miyao, Osamu; Shiraki, Manabu; and Ohsuka, Masayuki, to Shicoh Engineering Co., Ltd. Single-phase brushless motor. 4,707,645, 11-17-87, Cl. 318-254.000.

Miyaoka, Kazuyoshi; Kobayashi, Kazuhiro; Kuse, Satoru; Kuramatsu, Masayuki; and Koboshi, Shigeharu, to Konishiroku Photo Industry Co., Ltd. Automatic processing machine for photography. 4,705,378, 11-10-87, Cl. 354-324.000.

Miyaoka, Kazuyoshi: *See*—
Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; and Kuramatsu, Masayuki, 4,705,377, Cl. 354-322.000.
Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; Kuramatsu, Masayuki; and Uchida, Makoto, 4,705,379, Cl. 354-324.000.

Miyaoka, Norikuni: *See*—
Nagata, Tomizou; and Miyaoka, Norikuni, 4,636,184, Cl. 493-98.000.
Nagata, Tomizou; and Miyaoka, Norikuni, 4,674,997, Cl. 493-93.000.

Miyaoka, Shinichiro: *See*—
Wakamori, Fumio; Ohata, Hideo; Miyaoka, Shinichiro; and Funabashi, Motohisa, 4,712,182, Cl. 364-507.000.

Miyaoka, Takashi: *See*—
Kotera, Norio; Uegaki, Masatoshi; Yoshimura, Masakatsu; Masaki, Shinzaburo; Kaneoya, Tatsuo; Miyaoka, Takashi; Maegawa, Yuzo; and Fukasawa, Akira, 4,695,407, Cl. 760-378.000.

Miyasaka, Kaneyoshi; Sawai, Nobushige; and Murata, Ryoji, to Agency of Industrial Science & Technology; and Ministry of International Trade & Industry. Method of image processing for the measurement of tool wear. 4,700,224, 10-13-87, Cl. 358-101.000.

Miyasaka, Katsuhiko: *See*—
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,673,692, Cl. 514-583.000.
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,695,581, Cl. 514-415.000.

Miyasaka, Kiyoshi: *See*—
Akasaki, Hidehiko; and Miyasaka, Kiyoshi 4,689,658, Cl. 357-80.000.

Miyasaka, Masao: *See*—
Nishimura, Hiroshi; and Miyasaka, Masao, 4,704,963, Cl. 101-425.000.

Miyasaka, Masashi, to Nissan Motor Co., Ltd. Ventilator nozzle structure for automotive vehicle. 4,665,804, 5-19-87, Cl. 98-2.000.

Miyasaka, Nobuaki: *See*—
Ikeda, Hideo; Ohno, Shigeru; Nakamura, Koki; and Miyasaka, Nobuaki, 4,657,847, Cl. 430-523.000.

Miyasaka, Tadashi: *See*—
Fujikawa, Yoshihiro; Suzuki, Mikio; Sakashita, Mitsuaki; Tsurazoe, Nobutomo; and Miyasaka, Tadashi, 4,654,348, Cl. 514-258.000.

Miyasaka, Tetsuo, to Olympus Optical Co., Ltd. Diaphragm controller for cameras in which the diaphragm opening is selected in accordance with a preprogrammed characteristic. 4,693,584, 9-15-87, Cl. 354-446.000.

Miyasaka, Tomoo: *See*—
Tsugaki, Shoichiro; Miyasaka, Tomoo; Nishiyama, Yukio; and Atsuta, Toshio, 4,667,543, Cl. 76-108.00A.

Miyasako, Yoji, to Kabushiki Kaisha Toshiba. Current mirror circuit. 4,692,711, 9-8-87, Cl. 330-257.000.

Miyasato, Tsutomu: *See*—
Kaneko, Masahide; Hatori, Yoshinori; and Miyasato, Tsutomu, 4,691,230, Cl. 358-105.000.

Miyase, Yoshiyuki: *See*—
Kawai, Motoshi; Yamamoto, Noboru; Mase, Katuhisa; Matsui, Takeshi; Mikimo, Tomoatsu; Miyose, Yoshiyuki; Okuda, Ryoichi; and Suzumura, Koichi, 4,649,588, Cl. 123-609.000.
Yamamoto, Noboru; Mase, Katsuhisa; Kawai, Motoshi; Miyase, Yoshiyuki; and Matsui, Takeshi, 4,658,780, Cl. 123-418.000.

Miyashiro, Shigeyoshi; Kida, Takao; Shito, Tsuyoshi; and Shibui, Hiroshiro, to Ajinomoto Company Incorporated. Anthracycline compounds bound to hydrophilic polypeptides. 4,642,335, 2-10-87, Cl. 530-409.000.

Miyashiro, Shoichi: *See*—
Kojima, Takuya; Miyashiro, Shoichi; and Aramaki, Yoshimitsu, 4,654,649, Cl. 340-719.000.

Miyashiro, Takeshi: *See*—
Naka, Hiromitsu; Miyashiro, Takeshi; and Sugimoto, Yoshihide, 4,646,490, Cl. 52-184.000.

Miyashita, Akira: *See*—
Ueno, Katsuji; Nagaoka, Kenji; Miyashita, Akira; and Ebisu, Satoshi, 4,639,344, Cl. 264-83.000.

Miyashita, Hidekazu; and Maruyama, Ryoji, to Dai-Ichi Seiko Kabushiki Kaisha. Optical fiber coupler for connecting two optical cables in alignment. 4,676,589, 6-30-87, Cl. 350-96.210.

Miyashita, Hideo; and Yoshihara, Shigeo, to NEC Corporation. Phase locked loop frequency synthesizer with battery saving circuit. 4,673,892, 6-16-87, Cl. 331-14.000.

Miyashita, Hideo: *See*—
Toyoda, Kenichi; Miyashita, Hideo; Sakakibara, Shinsuke; and Naruo, Hatsumi, 4,647,827, Cl. 318-592.000.
Yoshihara, Shigeo; and Miyashita, Hideo, 4,677,[illegible], Cl. 455-82.000.

Miyashita, Hirohito: *See*—
Kamio, Mormori; Tsuji, Masahiro; and Miyashita, Hirohito, 4,666,667, Cl. 420-471.000.

Miyashita, Hiroichi; Nakazawa, Hajime; and Hoatsune, Masayuki, to Sumitomo Metal Mining Company Limited. Method of beneficiation of complex sulfide ores. 4,663,279, 5-5-87, Cl. 423-25.000.

Miyashita, Iwao: *See*—
Dohzono, Masataka; Miyashita, Iwao; and Abe, Norihiro, 4,714,466, Cl. 604-378.000.
Shiba, Daisuke; Miyashita, Iwao; and Ito, Osamu, 4,652,484, Cl. 428-286.000.

Miyashita, Kunio: *See*—
Kanazawa, Hiroshi; Yamashita, Seizi; and Miyashita, Kunio, 4,678,971, Cl. 318-135.000.
Morinaga, Shigeki; Miyashita, Kunio; Hayashida, Hiroshi; and Takahashi, Tadashi, 4,638,225, Cl. 318-341.000.
Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yoshio; Saito, Kouichi; and Tamura, Akira, 4,672,253, Cl. 310-269.000.
Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syouichi, 4,677,377, Cl. 324-208.000.
Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syouichi, 4,694,688, Cl. 73-116.000.
Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syouichi, 4,707,695, Cl. 340-870.310.
Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syouichi, 4,713,613, Cl. 324-208.000.

Miyashita, Masakazu: *See*—
Kimura, Sosaku; Hatsuse, Toshikazu; Shimizu, Masami; Miyashita, Masakazu; Yoshioka, Junichi; Kanai, Akira; and Koizumi, Koichi, 4,656,951, Cl. 108-20.000.
Nagashima, Mitsuyoshi; Hatsuse, Toshikazu; Miyashita, Masakazu; and Kanai, Akira, 4,653,408, Cl. 108-20.000.

Miyashita, Naoya, to Sanko Kogyo Kabushiki Kaisha. Superfine finish piping joint. 4,685,707, 8-11-87, Cl. 285-328.000.

Miyashita, Norio; and Nemoto, Akira, to Honda Giken Kogyo Kabushiki Kaisha; and Tachikawa Spring Co., Ltd. Seat for vehicles. 4,641,884, 2-10-87, Cl. 297-284.000.

Miyashita, Satoru: *See*—
Toki, Motoyuki; Kanbe, Sadao; Miyashita, Satoru; and Takeuchi, Tetsuhiko, 4,681,615, Cl. 65-18.100.

Miyashita, Tsuneo; Yoshikoshi, Hideyuki; Nishio, Hiroaki; and Takeuchi, Osamu, to Nippon Kokan Kabushiki Kaisha. Method for continuously manufacturing non-fired pellets. 4,636,342, 1-13-87, Cl. 264-82.000.

Miyashita, Tsuneo; and Nishio, Hiroaki, to Nippon Kokan Kabushiki Kaisha. Method of producing metal sinters. 4,676,949, 6-30-87, Cl. 419-32.000.

Miyashita, Yoshibonu: *See*—
Sakata, Yoshitsugu; Miyashita, Yoshibonu; Hamanaka, Tadashi; Kodera, Hiroyuki; Miki, Yutaka; Yamanishi, Kazuhiko; and Hanada, Toshiro, 4,695,539, Cl. 435-10.000.

Miyashita, Yoshinobu; Hamanaka, Tadashi; and Iwata, Kenzi, to Wako Pure Chemical Industries, Ltd. Stabilized sensitivity test disk. 4,714,675, 12-22-87, Cl. 435-32.000.

Miyashita, Yoshinori: *See*—
Shinoda, Tsutae; Miyashita, Yoshinori; Sugimoto, Yoshimi; Set, Hideo; and Andoh, Shizuo, 4,697,123, Cl. 315-169.400.

Miyashita, Yukio: *See*—
Hasebe, Hiroshi; Asakura, Masahiko; Sakano, Michio; and Miyashita, Yukio, 4,693,220, Cl. 123-339.000.

Miyata, Eiji: *See*—
Itagaki, Takaharu; Kusano, Hiroshi; Miyata, Eiji; and Kubota, Hirohisa, 4,696,745, Cl. 210-502.100.

Miyata, Hiroshi; and Kawajiri, Shogo, to NGK Spark Plug Co., Ltd. Piezoelectric pick-up device for internal combustion engine. 4,660,409, 4-28-87, Cl. 73-35.000.

Miyata, Hiroshi; and Katoh, Shinji, to Toyota Jidosha Kabushiki Kaisha. Electric control apparatus for power steering system. 4,693,332, 9-15-87, Cl. 180-142.000.

Miyata, Hiroshi: *See—*
Buma, Shuuichi; Yokoya, Yuji; Araki, Hitoshi; Hirose, Masanori; Miyata, Hiroshi; and Ohashi, Kaoru, 4,666,135, Cl. 267-64.210.
Hoshino, Shigeru; and Miyata, Hiroshi, 4,683,375, Cl. 250-231.0SE.
Izumi, Toshio; Saito, Ryozo; Kato, Yoichi; and Miyata, Hiroshi, 4,691,284, Cl. 364-424.000.
Yokoya, Yuji; Buma, Shuuichi; Araki, Hitoshi; Miyata, Hiroshi; Hirose, Masanori; and Ohashi, Kaoru, 4,648,621, Cl. 280-707.000.

Miyata, Hiroyasu: *See—*
Okita, Masao; and Miyata, Hiroyasu, 4,639,595, Cl. 250-231.0SE.

Miyata, Jun: *See—*
Shimizu, Tsutomu; Miyata, Jun; and Yagii, Koji, 4,693,942, Cl. 428-614.000.
Tarumoto, Kouji; Miyata, Jun; Yagii, Koji; and Nanba, Satoshi, 4,636,285, Cl. 204-38.500.
Yagii, Koji; Miyata, Jun; and Takasuga, Shunzo, 4,695,699, Cl. 219-121.0LD.

Miyata, Junji: *See—*
Baba, Toshihiko; Uomori, Akiyoshi; and Miyata, Junji, 4,645,896, Cl. 219-100.000.

Miyata, Keizo. Intramedullary nail used to unite separated fragments of fractured long bone. 4,667,663, 5-26-87, Cl. 128-92.0YZ.

Miyata, Kenichi: *See—*
Sakamoto, Takahide; Hiroshima, Tatsuo; Matsubara, Noriyuki; and Miyata, Kenichi, 4,641,092, Cl. 324-227.000.

Miyata, Kenji: *See—*
Izumi, Shigeru; Senoh, Makoto; Tsumaki, Koji; and Miyata, Kenji, 4,641,526, Cl. 73-572.000.
Kurihara, Yasutoshi; Soga, Tasao; Hachino, Hiroaki; Miyata, Kenji; Okamura, Masahiro; Kobayashi, Fumiyuki; and Daikoku, Takahiro, 4,649,990, Cl. 165-80.400.

Miyata, Kinichi, to Aisin Seiki Kabushiki Kaisha. Method of manufacturing a disintegratable core for casting. 4,685,503, 8-11-87, Cl. 164-14.000.

Miyata, Makoto, to Matsushita Electric Works, Ltd. Dispensing gun. 4,669,636, 6-2-87, Cl. 222-153.000.

Miyata, Masanori; Komiya, Yutaka; Nakamura, Shinichi; Hirose, Masayuki; Adachi, Hideki; and Tomosada, Masahiro, to Canon Kabushiki Kaisha. Apparatus for forming an image on one side of a record medium and in another mode to form images on both sides thereof. 4,641,954, 2-10-87, Cl. 355-14.00R.

Miyata, Masanori: *See—*
Komiya, Yutaka; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Mori, Toshihiko, 4,647,188, Cl. 355-55.000.
Komiya, Yutaka; Tomosada, Masahiro; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Adachi, Hideki, 4,697,916, Cl. 355-14.00E.
Nakayama, Tomobumi; Mori, Toshihiko; Hirose, Masayuki; Ohbuchi, Toru; Miyata, Masanori; Nakamura, Shinichi; and Honjo, Takeshi, 4,712,908, Cl. 355-14.0SH.
Tomosada, Masahiro; Miyata, Masanori; Adachi, Hideki; and Sato, Yukio, 4,674,863, Cl. 355-14.00E.

Miyata, Mitsuto: *See—*
Kawamura, Hideaki; Miyata, Mitsuto; and Fujihayashi, Kentaro, 4,652,804, Cl. 318-590.000.

Miyata, Nobuhiro, to Seibu Polymer Kasei Kabushiki Kaisha. Cellular reflex-reflecting sheeting. 4,653,854, 3-31-87, Cl. 350-105.000.

Miyata, Osamu: *See—*
Hasegawa, Yoshihiko; and Miyata, Osamu, 4,715,225, Cl. 73-215.000.

Miyata, Seizo; Nakahama, Hidenari; and Kasuga, Takeshi, to Central Glass Company, Limited. Method of forming built-up film of fluorinated aliphatic compound on substrate surface. 4,696,838, 9-29-87, Cl. 427-407.200.

Miyata, Seizo; and Ozio, Takeaki, to Hoechst Gosei Kabushiki Kaisha. Process for producing electrically conductive composite polymer article. 4,699,804, 10-13-87, Cl. 437-176.000.

Miyata, Shigeo; Iizima, Noriko; and Manabe, Tadashi, to Kyowa Chemical Industry Co., Ltd. Method for purification of the cooling water used in nuclear reactors. 4,642,193, 2-10-87, Cl. 210-682.000.

Miyata, Shigeo, to Kyowa Chemical Industry Co., Ltd. Synthetic resin composition having reduced corrosion-causing tendency and coloration. 4,675,356, 6-23-87, Cl. 524-424.000.

Miyata, Shigeo, to Kyowa Chemical Industry Co., Ltd. Agricultural film structure. 4,686,791, 8-18-87, Cl. 47-29.000.

Miyata, Shigeo, to Kyowa Chemical Industry Co., Ltd. Process for producing a vinyl chloride polymer or copolymer in aqueous suspension using a hydrotalcite compound as suspension stabilizer. 4,710,551, 12-1-87, Cl. 526-91.000.

Miyata, Shinobu; and Kinouchi, Takashige, to NEC Corporation. Word length selectable memory. 4,706,219, 11-10-87, Cl. 365-189.000.

Miyata, Takahide; Iwashita, Kanau; Taniuchi, Kazuman; Yamamoto, Hitoshi; and Nakamichi, Katsuhiro, to Honda Giken Kogyo Kabushiki Kaisha. Two-cycle engine. 4,672,925, 6-16-87, Cl. 123-65.0PE.

Miyata, Teruhisa; Miyake, Akira; and Funahashi, Masaya, to Hitachi Maxell, Ltd. Magnetic disc. 4,666,769, 5-19-87, Cl. 428-323.000.

Miyata, Teruhisa: *See—*
Funahashi, Masaya; Miyata, Teruhisa; Inoue, Kenichi; Miyake, Akira; and Noramatsu, Kohji, 4,690,864, Cl. 428-336.000.
Funahashi, Masaya; Miyata, Teruhisa; Inoue, Kenichi; and Miyake, Akira, 4,696,869, Cl. 428-695.000.

Miyata, Teruo; and Rubin, Albert L., to Optical Corp. Method for manufacturing pyrogen-free collagen gels useful as contact lenses. 4,687,518, 8-18-87, Cl. 106-161.000.

Miyata, Teruo; and Noishiki, Yasuharu, to Koken Co., Ltd. Medical material. 4,695,281, 9-22-87, Cl. 623-11.000.

Miyata, Teruo: *See—*
Kuroyanagi, Yoshimitsu; Miyata, Teruo; and Seno, Manabu, 4,642,118, Cl. 623-15.000.
Namiki, Tetsuro; Furuse, Masayasu; Kuroyanagi, Yoshimitsu; and Miyata, Teruo, 4,714,758, Cl. 530-354.000.
Noishiki, Yasuharu; Kodaira, Kazuhiko; Furuse, Masayasu; Miyata, Teruo; Miyamoto, Takeaki; and Ito, Hiraku, 4,690,973, Cl. 525-54.100.
Noishiki, Yasuharu; and Miyata, Teruo, 4,704,131, Cl. 623-66.000.

Miyata, Toshimi; Takahashi, Toshiki; and Matsumoto, Kenji, to Honda Giken Kogyo Kabushiki Kaisha. Mount structure of a windowpane for automobile use. 4,648,222, 3-10-87, Cl. 52-208.000.

Miyata, Toshio, to Kabushiki Kaisha Mitaka Kogyosho. Filter apparatus. 4,702,833, 10-27-87, Cl. 210-333.010.

Miyata, Tsutomu; and Nagai, Masahide, to Kabushiki Kaisha Daini Seikosha. Device for discriminating attitude of parts. 4,692,881, 9-8-87, Cl. 364-551.000.

Miyata, Yoshiki: *See—*
Tomioka, Hisatsugu; Waki, Tatsuo; and Miyata, Yoshiki, 4,709,763, Cl. 182-8.000.

Miyata, Yutaka; Chikamura, Takao; and Fujiwara, Shinji, to Matsushita Electric Industrial Co. Ltd. Anti-blooming image sensor. 4,670,766, 6-2-87, Cl. 357-30.000.

Miyata, Yutaka: *See—*
Ohta, Yoshio; Chikamura, Takao; Miyata, Yutaka; Yano, Kohsaku; and Fujiwara, Shinji, 4,661,830, Cl. 357-30.000.

Miyatake, Hideshi; Fujishima, Kazuyasu; and Shimotori, Kazuhiro, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor memory device. 4,694,432, 9-15-87, Cl. 365-203.000.

Miyatake, Hideshi; Fujishima, Kazuyasu; Yoshihara, Tsutomu; Kumanoya, Masaki; Hidaka, Hideto; and Dosaka, Katsumi, to Mitsubishi Denki Kabushiki Kaisha. Dynamic memory device. 4,712,123, 12-8-87, Cl. 357-23.600.

Miyatake, Hideshi: *See—*
Fujishima, Kazuyasu; Shimotori, Kazuhiro; Ozaki, Hideyuki; Miyatake, Hideshi; and Tomisato, Masahiro, 4,658,379, Cl. 365-200.000.
Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hideshi; Hidaka, Hideto; Dosaka, Katsumi; and Yoshihara, Tsutomu, 4,675,850, Cl. 365-230.000.
Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hideshi; Hidaka, Hideto; Dosaka, Katsumi; and Nishimura, Yasumasa, 4,692,901, Cl. 365-201.000.
Kumanoya, Masaki; Fujishima, Kazuyasu; Dosaka, Katsumi; Hidaka, Hideto; Miyatake, Hideshi; and Yoshihara, Tsutomu, 4,710,901, Cl. 365-190.000.
Shimotori, Kazuhiro; Fujishima, Kazuyasu; Ozaki, Hideyuki; and Miyatake, Hideshi, 4,641,286, Cl. 365-230.000.

Miyatake, Kimio; and Satake, Tsukasa, to Horiba, Ltd. Infrared radiation gas analyzer with PTC resistance heater. 4,667,105, 5-19-87, Cl. 250-338.000.

Miyatake, Shigehiro, to Sharp Kabushiki Kaisha. Solid-state image-sensor having reverse-biased substrate and transfer registers. 4,672,455, 6-9-87, Cl. 358-213.310.

Miyatake, Shigehiro, to Sharp Kabushiki Kaisha. Field storage drive in interline transfer CCD image sensor. 4,697,200, 9-29-87, Cl. 357-24.000.

Miyatake, Teruyoshi: *See—*
Nakayama, Yoshihiko; and Miyatake, Teruyoshi, 4,658,643, Cl. 73-119.00R.

Miyatake, Toshiya: *See—*
Tanaka, Yukio; Miyatake, Toshiya; Kitera, Takuya; and Miyamae, Isamu, 4,646,768, Cl. 134-167.00R.

Miyatake, Yoshito; and Wagamitsu, Yasuhiko, to Matsushita Electric Industrial Co., Ltd. Liquid-cooled projection tube apparatus. 4,673,841, 6-16-87, Cl. 313-35.000.

Miyatake, Yoshito: *See—*
Nakajima, Yasuo; Yamamoto, Yoshiharu; Miyatake, Yoshito; Nagaoka, Yoshitomi; and Ono, Shusuke, 4,690,515, Cl. 350-432.000.
Yamamoto, Yoshiharu; Miyatake, Yoshito; Nakajima, Yasuo; Nagaoka, Yoshitomi; and Ono, Syusuke, 4,704,009, Cl. 350-432.000.

Miyatani, Kazuo; and Sato, Isao, to RCA Corporation. Curved structure and method for making same. 4,678,292, 7-7-87, Cl. 350-609.000.

Miyatsuka, Hajime; Kasuga, Akira; Matsufuji, Akihiro; and Kakuta, Takeshi, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,687,705, 8-18-87, Cl. 428-329.000.

Miyatsuka, Hajime: *See—*
Miyoshi, Takahito; Matsufuji, Akihiro; Yamamoto, Nobuyuki; Miyatsuka, Hajime; and Fujiyama, Masaaki, 4,687,704, Cl. 428-328.000.

Miyauchi, Fumio, to Ikeda Bussan Co., Ltd. Fluid joint. 4,673,200, 6-16-87, Cl. 285-319.000.

Miyauchi, Katsuki: *See—*
Hiratani, Masahiko; Miyauchi, Katsuki; Ito, Yukio; Kanehori, Keiichi; Kirino, Fumiyoshi; and Kudo, Tetsuichi, 4,645,726, Cl. 429-191.000.
Shimohigashi, Katsuhiro; Kubo, Masaharu; Miyauchi, Katsuki; Masuhara, Toshiaki; and Minato, Osamu, 4,672,586, Cl. 365-229.000.

Miyauchi, Kazunori: *See*—
Yamazaki, Akitoshi; and Miyauchi, Kazunori. 4,664,589, Cl. 414-730.000.
Miyauchi, Keinosuke: *See*—
Inouye, Shigeharu; Koyama, Masao; Miyauchi, Keinosuke; Tsuruoka, Takashi; Kai, Fumio; Matsumoto, Kunlomi; Niida, Taro; and Akita, Eiichi. 4,647,572, Cl. 514-381.000.
Miyauchi, Masayoshi, to Teijin Chemicals, Ltd. Polycarbonate resin composition useful in optical applications. 4,670,479, 6-2-87, Cl. 524-154.000.
Miyauchi, Nobuyuki: *See*—
Hayakawa, Toshiro; Miyauchi, Nobuyuki; Yano, Seiki; and Suyama, Takahiro. 4,637,029, Cl. 372-45.000.
Yamamoto, Osamu; Matsui, Sadayoshi; Takiguchi, Haruhisa; Hayashi, Hiroshi; and Miyauchi, Nobuyuki. 4,655,597, Cl. 356-373.000.
Miyauchi, Reizo: *See*—
Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, Koji; Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusawa, Kuniaki; Takama, Hideaki; Waseda, Masashi; and Fujita, Akihisa. 4,667,551, Cl. 83-72.000.
Miyauchi, Satoshi: *See*—
Masho, Yukio; Kakimi, Shigeru; Ueki, Toru; Miyauchi, Satoshi; Ohigashi, Tugio; and Kurohata, Hiroshi. 4,705,154, Cl. 194-319.000.
Miyauchi, Shizuya; Suzuki, Takashi; Minobe, Shinichi; and Soga, Shigeyuki, to Kotto Seisakusho Co., Ltd. Apparatus for reciprocably moving a desired object such as a vehicle window panel. 4,656,780, 4-14-87, Cl. 49-348.000.
Miyauchi, Tateoki; Yamaguchi, Hiroshi; Hongo, Mikio; Mizukoshi, Katsuro; Shimase, Akira; and Satoh, Ryohei, to Hitachi, Ltd. Method and apparatus for forming film by ion beam. 4,687,939, 8-18-87, Cl. 250-492.200.
Miyauchi, Tateoki: *See*—
Shimase, Akira; Yamaguchi, Hiroshi; Haraichi, Satoshi; and Miyauchi, Tateoki. 4,683,378, Cl. 250-492.200.
Miyauchi, Teiichi: *See*—
Kira, Toru; Miyauchi, Teiichi; and Yoshikawa, Mitsuhiko. 4,639,806, Cl. 360-113.000.
Miyauchi, Terukatsu; Ikeda, Yoneichi; Tashiro, Masaharu; and Kubota, Osamu, to Fuji Standard Research Kabushiki Kaisha. Process for thermal cracking of heavy oil. 4,668,378, 5-26-87, Cl. 208-127.000.
Miyauchi, Terukatsu; Ikeda, Yoneichi; and Kikuchi, Tatsuji, to Fuji Standard Research Kabushiki Kaisha. Process for thermal cracking of heavy oil. 4,675,098, 6-23-87, Cl. 208-127.000.
Miyauchi, Tsutomu: *See*—
Komatsu, Kousuke; Miyauchi, Tsutomu; Misao, Ikuo; Kimura, Mutsumi; Fujiwara, Tadashi; Tsuchida, Yoshio; and Kurowa, Junko. 4,646,134, Cl. 358-11.000.
Miyauchi, Yasushi: *See*—
Terao, Motoyasu; Miyauchi, Yasushi; Shigematsu, Kazuo; and Horigome, Shinkichi. 4,637,976, Cl. 430-523.000.
Terao, Motoyasu; Nishida, Tetsuya; Ohta, Yasuhiro; Horigome, Shinkichi; and Miyauchi, Yasushi. 4,668,573, Cl. 428-336.000.
Miyauchi, Yoshio: *See*—
Fukushima, Masao; Hirose, Iwao; and Miyauchi, Yoshio. 4,664,502, Cl. 355-10.000.
Hatabe, Yukio; Miyauchi, Yoshio; Fukushima, Masao; Horikawa, Toru; and Bessho, Yoshihiko. 4,668,073, Cl. 355-3.0FU.
Miyauchi, Yuh: *See*—
Isshiki, Tomiya; Kijima, Yasuhiko; Miyauchi, Yuh; and Yasunaga, Takayuki. 4,659,865, Cl. 560-232.000.
Miyauchi, Yujiro: *See*—
Shindou, Yoshio; Oka, Joji; Taira, Taketoshi; Miyauchi, Yujiro; and Yamazaki, Fumio. 4,705,726, Cl. 428-562.000.
Miyauchi, Yukio; Nakagawa, Yuichi; Kurihara, Makoto; and Hayashi, Norifumi, to Three Bond Co., Ltd. Self-locking agent and self-locking screw material. 4,702,939, 10-27-87, Cl. 427-195.000.
Miyaura, Yasuhiko; and Machida, Hisashi, to Nippon Seiko Kabushiki Kaisha. Transmission control apparatus for infinitely variable transmission. 4,669,334, 6-2-87, Cl. 74-866.000.
Miyawaki, Makoto; and Ikawa, Kazuo, to Canon Kabushiki Kaisha. Flash shot control device for camera. 4,666,280, 5-19-87, Cl. 354-414.000.
Miyawaki, Mamoru, to Canon Kabushiki Kaisha. Thin film type optical device. 4,705,346, 11-10-87, Cl. 350-96.140.
Miyawaki, Mamoru: *See*—
Nishimura, Yukuo; Miyawaki, Mamoru; Nose, Noriyuki; and Nakagiri, Takashi. 4,691,982, Cl. 350-96.120.
Miyawaki, Motohisa, to Fuji Jukogyo Kabushiki Kaisha. Kickdown system for an infinitely variable transmission. 4,651,595, 3-24-87, Cl. 74-866.000.
Miyawaki, Motohisa, to Fuji Jukogyo Kabushiki Kaisha. Control system for an infinitely variable transmission. 4,656,892, 4-14-87, Cl. 74-868.000.
Miyawaki, Motohisa, to Fuji Jukogyo Kabushiki Kaisha. Control system for an infinitely variable transmission. 4,657,522, 4-14-87, Cl. 474-12.000.
Miyawaki, Motohisa, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the transmission ratio of an infinitely variable transmission. 4,659,321, 4-21-87, Cl. 474-28.000.
Miyawaki, Motohisa, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the pressure of oil in a system for a continuously variable transmission. 4,674,363, 6-23-87, Cl. 74-866.000.
Miyawaki, Motohisa; and Sakakiyama, Ryuzo, to Fuji Jukogyo Kabushiki Kaisha; and Van Doorne's Transmissie B.V. System for controlling an electromagnetic clutch for an automotive engine. 4,675,818, 6-23-87, Cl. 364-424.100.
Miyawaki, Motohisa, to Fuji Jukogyo Kabushiki Kaisha; and Van Doorne's Transmissie B.V. Control system for an infinitely variable transmission. 4,680,711, 7-14-87, Cl. 364-424.100.
Miyawaki, Motohisa, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the transmission ratio in an infinitely variable transmission. 4,680,991, 7-21-87, Cl. 74-868.000.
Miyawaki, Motohisa: *See*—
Sakakiyama, Ryuzo; and Miyawaki, Motohisa. 4,675,817, Cl. 364-424.100.
Miyawaki, Naokazu; and Ogura, Mitsugi, to Tokyo Shibaura Denki Kabushiki Kaisha. Memory clock pulse generating circuit with reduced peak current requirements. 4,644,184, 2-17-87, Cl. 307-269.000.
Miyawaki, Yoshiharu: *See*—
Nakahara, Takafumi; Fujiwara, Makoto; Kondo, Motoe; Miyawaki, Yoshiharu; Hanmyo; Masayuki; Kinoshita, Shinya; Matsui, Masao; Tamura, Koneshin; and Murata, Susumu. 4,671,752, Cl. 425-7.000.
Miyawaki, Yoshinori; Ueno, Satoshi; Egawa, Satoshi; and Shirasaki, Osamu, to Omron Tateisi Electronics Co. Electronic blood pressure measuring device. 4,703,760, 11-3-87, Cl. 128-681.000.
Miyazaki, Atsushi; and Tohjoh, Yoshikazu, to Olympus Optical Co., Ltd. Endoscope apparatus. 4,643,170, 2-17-87, Cl. 128-6.000.
Miyazaki, Atsushi, to Olympus Optical Co., Ltd. Endoscope apparatus with a removable insertion guide. 4,676,230, 6-30-87, Cl. 128-4.000.
Miyazaki, Atsushi: *See*—
Shishido, Yoshio; Takahashi, Susumu; Matsuo, Kazumasa; Miyazaki, Atsushi; Nishigaki, Shinichi; Kato, Shinichi; Nakamura, Takeaki; and Ishikawa, Akibumi. 4,711,999, Cl. 250-204.000.
Miyazaki, Benichi: *See*—
Fukushima, Yasuhisa; Maruyama, Masuo; and Miyazaki, Benichi. 4,680,662, Cl. 360-133.000.
Miyazaki, Haruhiko; Hirai, Koichi; Uda, Taizo; Nakamura, Yasuo; Ikezawa, Harumi; and Tsuchie, Takanori, to Ube InJustries, Ltd. For producing ethylene glycol and/or a glycolic acid ester, catalyst composition and process for producing the catalyst composition. 4,647,551, 3-3-87, Cl. 502-200.000.
Miyazaki, Hideo: *See*—
Deguchi, Naoyasu; Kojima, Tetsuro; Ohno, Shigeru; Nakamura, Koki; and Miyazaki, Hideo. 4,696,894, Cl. 430-551.000.
Miyazaki, Hiroshi; Sawada, Toshiharu; and Nakajima, Kazuo, to Kamatsu Zenoah Co. Air cleaner for engine. 4,634,457, 1-6-87, Cl. 55-276.000.
Miyazaki, Hiroshi; Arika, Junji; and Aimoto, Michiyuki, to Toyo Soda Manufacturing Co., Ltd. Process for preparation of faujasite zeolite. 4,678,651, 7-7-87, Cl. 423-329.000.
Miyazaki, Hiroshi: *See*—
Arika, Junji; Miyazaki, Hiroshi; Igawa, Kazushige; and Itabashi, Keiji. 4,650,654, Cl. 423-328.000.
Arika, Junji; Miyazaki, Hiroshi; Itabashi, Keiji; and Aimoto, Michiyuki. 4,664,898, Cl. 423-329.000.
Kawamoto, Hiroshi; and Miyazaki, Hiroshi. 4,704,074, Cl. 417-407.000.
Masuzawa, Sigeaki; Shibata, Shinya; Miyazaki, Hiroshi; and Iwase, Tetsuo. 4,716,591, Cl. 381-51.000.
Miyazaki, Hisaya: *See*—
Sawayama, Takeo; Iimura, Izumi; and Miyazaki, Hisaya. 4,659,544, Cl. 376-451.000.
Miyazaki, Jinsei: *See*—
Yoshino, Kimiaki; Ando, Eiji; Miyazaki, Jinsei; and Morimoto, Kazuhisa. 4,686,169, Cl. 430-339.000.
Miyazaki, Katsuto: *See*—
Ohki, Masaru; Hirosawa, Toshio; Kurihara, Junichi; and Miyazaki, Katsuto. 4,649,480, Cl. 364-300.000.
Miyazaki, Kazuhiko: *See*—
Yokouchi, Hiroshi; and Miyazaki, Kazuhiko. 4,680,491, Cl. 307-579.000.
Miyazaki, Kazuo. Automatic control on strip continuous processing lines. 4,633,694, 1-6-87, Cl. 72-9.000.
Miyazaki, Kenji; Hagio, Tsuyoshi; Ogawa, Ichitaro; Yoshida, Hisayoshi; Kobayashi, Kazuo; Kashima, Kazutsugu; Tada, Takashi; Hayashi, Yoichiro; and Abe, Wataru, to Agency of Industrial Science & Technology; and Oiles Industry Co., Ltd. Sliding member of graphite-boron carbides. 4,637,884, 1-20-87, Cl. 252-12.000.
Miyazaki, Kiyoshi; Ito, Jinichi; and Naito, Hayato, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Reduced ripple drive circuit for a brushless motor. 4,658,190, 4-14-87, Cl. 318-254.000.
Miyazaki, Koichiro: *See*—
Nogi, Munehiro; Ohashi, Ryutaro; Miyazaki, Koichiro; Tanaka, Takashi; Tamakoshi, Koichiro; Tamano, Yoshizirо; Wakita, Syotaro; and Suzuki, Toshimitsu. 4,641,671, Cl. 134-57.00D.
Miyazaki, Kunio: *See*—
Okamura, Hisanori; Akiyama, Hiroshi; Kamoshita, Mutuo; and Miyazaki, Kunio. 4,636,434, Cl. 428-328.000.
Okamura, Hisanori; Miyazaki, Kunio; Akiyama, Hiroshi; Itoh, Shinichi; Yasuda, Tomio; Nakamura, Kousuke; Okoshi, Yukio; Kamishita, Mutuo; and Chiba, Akio. 4,690,793, Cl. 376-136.000.
Sassa, Yuusei; Yoshieda, Keiichi; and Miyazaki, Kunio. 4,650,091, Cl. 221-220.000.
Suzuki, Hideo; Kokura, Satoshi; Asai, Osamu; and Miyazaki, Kunio. 4,663,649, Cl. 357-67.000.
Yoshieda, Keiichi; and Miyazaki, Kunio. 4,651,603, Cl. 83-42.000.
Miyazaki, Makoto; Yomoda, Minoru; and Suzuki, Takehiko, to Canon Kabushiki Kaisha. Wafer conveying apparatus with alignment mechanism. 4,635,372, 1-13-87, Cl. 33-180.00R.

Miyazaki, Makoto: *See*—
Fujita, Masahito; Kizaki, Masami; Miyazaki, Makoto; and Inaba, Naomi, 4,634,687, Cl. 502-121.000.
Fujita, Masahito; Miyazaki, Makoto; Kizaki, Masami; Nagashima, Yukio; and Shimbori, Yuichi, 4,678,768, Cl. 502-119.000.
Fujita, Masahito; Kizaki, Masami; Miyazaki, Makoto; and Inaba, Naomi, 4,716,...06, Cl. 526-139.000.
Inoue, Hiroshi; Miyazaki, Makoto; Isoi, Masaaki; and Yoda, Makoto, 4,684,578, Cl. 428-462.000.
Isohata, Junji; and Miyazaki, Makoto, 4,708,466, Cl. 355-53.000.
Matsushita, Koichi; Isohata, Junji; Yamamoto, Hironori; Miyazaki, Makoto; Ozawa, Kuntaka; and Yoshinari, Hideki, 4,676,630, Cl. 355-53.000.
Miyazaki, Masaaki; and Ishii, Mitsuaki, to Mitsubishi Denki Kabushiki Kaisha. Waveshaping circuit. 4,668,875, 5-26-87, Cl. 307-106.000.
Miyazaki, Masamitsu: *See*—
Kenmochi, Kazuei; Sakairi, Tadashi; and Miyazaki, Masamitsu, 4,657,714, Cl. 264-1.300.
Miyazaki, Masamitu: *See*—
Funakoshi, Yasutomo; Miyazaki, Masamitu; Sakairi, Tadashi; and Suzuki, Kozo, 4,654,693, Cl. 357-74.000.
Miyazaki, Masaru; and Kohata, Toshihide, to Japan Tobacco Inc. Automatic wrapping material change-over apparatus. 4,705,225, 11-10-87, Cl. 242-56.00R.
Miyazaki, Masaru: *See*—
Kohata, Toshihide; Miyazaki, Masaru; Sato, Yoshihisa; and Ikeda, Junichi, 4,697,408, Cl. 57-264.000.
Munakata, Chusuke; Yagi, Kunihiro; Miyazaki, Masaru; and Yoneda, Shiyouzou, 4,672,578, Cl. 365-118.000.
Miyazaki, Masayuki; Kudo, Yoshihiko; Takahashi, Seizo; Kobayashi, Chiharu; and Sawaki, Akira, to Konishiroku Photo Industry Co., Ltd. Method and mechanism for preventing misoperation of dual mode copying machine. 4,659,208, 4-21-87, Cl. 355-8.000.
Miyazaki, Michio: *See*—
Ogata, Mikito; Mori, Masahito; Doi, Takashi; Miyazaki, Michio; and Oka, Takafumi, 4,638,472, Cl. 369-54.000.
Ogata, Mikito; Mori, Masahito; Doi, Takashi; and Miyazaki, Michio, 4,677,606, Cl. 369-59.000.
Miyazaki, Minoru: *See*—
Yamazaki, Shunpei; Tashiro, Mamoru; and Miyazaki, Minoru, 4,636,401, Cl. 427-39.000.
Miyazaki, Nobuyuki: *See*—
Nakajima, Isamu; Nakashima, Yasuo; Miyazaki, Nobuyuki; and Ishino, Kazuo, 4,702,087, Cl. 62-285.000.
Miyazaki, Osamu: *See*—
Arikawa, Junichi; Chiba, Hiroshi; Miyazaki, Osamu; and Osanai, Masatoshi, 4,639,582, Cl. 235-379.000.
Kokubo, Eiichi; Osako, Kyoichi; Hirata, Akira; Oshita, Mizuo; Ito, Toshiaki; Seki, Kazuyuki; Yoshikawa, Eiichi; and Miyazaki, Osamu, 4,699,272, Cl. 209-534.000.
Miyazaki Prefecture: *See*—
Nakashima, Tadao; Shimizu, Masataka; and Kawano, Mikio, 4,657,875, Cl. 501-39.000.
Miyazaki, Shinji: *See*—
Ito, Takaaki; Mori, Eiji; Uranishi, Koji; Miyazaki, Shinji; and Sugimoto, Junichi, 4,715,509, Cl. 220-86.00R.
Miyazaki, Sinji: *See*—
Ueno, Tsunehisa; Kamata, Yutaka; and Miyazaki, Sinji, 4,714,668, Cl. 430-316.000.
Miyazaki, Takao; and Yamamoto, Hideo, to Clarion Co., Ltd. Magnetic video signal recording and reproducing system. 4,680,650, 7-14-87, Cl. 360-33.100.
Miyazaki, Takeshi; and Sugiyama, Kenji, to Toyoda Gosei Co., Ltd. Hose joint. 4,650,223, 3-17-87, Cl. 285-158.000.
Miyazaki, Takeshi, to Toyoda Gosei Co., Ltd. Female-type coupling nipple. 4,671,545, 6-9-87, Cl. 285-334.500.
Miyazaki, Tomohiro; Koyama, Tetsu; and Koike, Shinichi, to NEC Corporation. FSK with continuous phase and continuous slope at bit transitions. 4,700,364, 10-13-87, Cl. 375-62.000.
Miyazaki, Toshihiko; Sugawa, Etsuko; Tomida, Yoshinori; Munakata, Hirohide; Nishimura, Yukuo; and Eguchi, Ken, to Canon Kabushiki Kaisha. Film forming apparatus. 4,674,436, 6-23-87, Cl. 118-402.000.
Miyazaki, Toshihiko: *See*—
Haruta, Masahiro; Kuwae, Yoko; Yuasa, Satoshi; and Miyazaki, Toshihiko, 4,711,830, Cl. 430-52.000.
Miyazaki, Yasuharu: *See*—
Mizota, Hisakazu; Kojima, Shinji; Kodama, Masanori; and Miyazaki, Yasuharu, 4,649,985, Cl. 164-468.000.
Miyazaki, Yasuko; Matsuoka, Mikiharu; Horyu, Sakae; Kanemoto, Takashi; and Katayama, Hirohiko, to Canon Kabushiki Kaisha. Data processing apparatus. 4,651,299, 3-17-87, Cl. 364-900.000.
Miyazaki, Yasuyuki: *See*—
Ogawa, Hiroshi; Miyazaki, Yasuyuki; and Yoshida, Susumu, 4,665,487, Cl. 364-424.000.
Ogawa, Hiroshi; Miyazaki, Yasuyuki; Yoshida, Susumu; and Sasaki, Shinichi, 4,716,530, Cl. 364-424.000.
Suzuki, Tetsuji; Yoshida, Susumu; Ogawa, Hiroshi; and Miyazaki, Yasuyuki, 4,665,489, Cl. 364-424.000.
Miyazaki, Yoshiaki: *See*—
Genda, Yoshikazu; Muro, Hiroyuki; Nakayama, Kiyoharu; Miyazaki, Yoshiaki; and Sugita, Yoshiji, 4,680,413, Cl. 548-526.000.
Miyazaki, Yoshifumi: *See*—
Shiraki, Kenhachi; Kikkawa, Shinichi; Izawa, Takaharu; Miyazaki, Yoshifumi; Nonoue, Tocahiko; and Moriki, Etsuzo, 4,645,328, Cl. 355-8.000.
Miyazaki, Yoshihiko; Goto, Taizan; Komiyama, Yoshizo; and Iwata, Kotes, to Toshiba Kikai Kabushiki Kaisha. Epitaxial growing apparatus. 4,641,603, 2-10-87, Cl. 118-724.000.
Miyazaki, Yoshio: *See*—
Shimamoto, Hideki; Miyazaki, Yoshio; Aoshima, Yoichi; Tsunetsugu, Tsuyoshi; Nagara, Hisao; Kuwae, Yoshiteru; and Shiono, Kazushi, 4,652,968, Cl. 361-319.000.
Tajima, Shoji; Kadomatsu, Yasuo; Miyazaki, Yoshio; Sakurai, Michikazu; and Anze, Kimio, 4,707,382, Cl. 427-58.000.
Miyazaki, Yoshiro, to Kabushiki Kaisha Toshiba. Heat radiation control device. 4,676,300, 6-30-87, Cl. 165-32.000.
Miyazaki, Yuji; Nishijima, Akio; and Kawanami, Kiyomiki, to Denki Kagaku Kogyo Kabushiki Kaisha. Electrically conductive compositions. 4,664,909, 5-12-87, Cl. 423-447.300.
Miyazaki, Yukio, to Mitsubishi Denki Kabushiki Kaisha. Complementary MOS integrated circuit including lock-up prevention parasitic transistors. 4,689,653, 8-25-87, Cl. 357-42.000.
Miyazaki, Yusuke: *See*—
Okonogi, Shigeo; Yuguchi, Hiroya; Miyazaki, Yusuke; Tanai, Sumio; and Ohta, Minoru, 4,668,520, Cl. 426-564.000.
Miyazako, Takushi: *See*—
Katsuyama, Harumi; Arai, Fuminori; Miyazako, Takushi; and Nagatomo, Shigeru, 4,671,937, Cl. 422-56.000.
Miyazawa, Akio: *See*—
Yogo, Takeji; Nakagaki, Akitsuna; and Miyazawa, Akio, 4,653,581, Cl. 165-166.000.
Yogo, Takeji; Nakagaki, Akitsuna; Miyazawa, Akio; Mitomi, Takeshi; and Ichihara, Takayuki, 4,708,199, Cl. 165-167.000.
Miyazawa, Azuma: *See*—
Mikamoto, Makoto; Sasaki, Shinkichi; Watanabe, Hiroyuki; and Miyazawa, Azuma, 4,665,453, Cl. 360-96.600.
Naoi, Mitsuaki; Miyazawa, Azuma; and Arai, Hideharu, 4,669,009, Cl. 360-99.000.
Miyazawa, Hideo; Endo, Shokichi; and Nishimoto, Hideo, to Hitachi, Ltd. Pallet for use in production of color cathode ray tube. 4,648,348, 3-10-87, Cl. 118-500.000.
Miyazawa, Hideo; Andoh, Ikuhiro; Koyama, Hiromichi; and Kobayashi, Mitsuru, to Fujitsu Limited. Insulation displacement connection (IDC) type cable connector and a method for assembling a cable thereto. 4,714,306, 12-22-87, Cl. 439-395.000.
Miyazawa, Hideyuki; and Kamizyo, Eiji, to Ricoh Company, Ltd. Image reader for image processing apparatus. 4,646,155, 2-24-87, Cl. 358-213.000.
M...wa, Hideyuki, to Ricoh Company, Ltd. Image reader for image processing apparatus. 4,661,860, 4-28-87, Cl. 358-294.000.
Miyazawa, Hideyuki, to Ricoh Company, Ltd. Image reader for image processing apparatus. 4,677,496, 6-30-87, Cl. 358-285.000.
Miyazawa, Hiroshi: *See*—
Koizumi, Yukio; and Miyazawa, Hiroshi, 4,658,972, Cl. 212-270.000.
Miyazawa, Katsuhiko: *See*—
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,673,692, Cl. 514-583.000.
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,695,581, Cl. 514-415.000.
Miyazawa, Kazutoshi: *See*—
Inoue, Hiromichi; Saito, Shinichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, 4,689,176, Cl. 252-299.650.
Saito, Shinichi; Inoue, Hiromichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, 4,668,427, Cl. 252-299.660.
Miyazawa, Kenji, to Koito Seisakusho Co., Ltd. Vehicular lighting device having a power driven lamp cover. 4,639,839, 1-27-87, Cl. 362-64.000.
Miyazawa, Kenji; and Kamimura, Touichi, to Koito Seisakusho Co., Ltd. Dual purpose lamp assembly for use, for example, as a combined fog and cornering lamp on a motor vehicle. 4,663,696, 5-5-87, Cl. 362-80.000.
Miyazawa, Naotoshi: *See*—
Kitabayashi, Motoi; Hayashi, Takuo; Ozawa, Norihiko; Hirasawa, Yukihiro; and Miyazawa, Naotoshi, 4,647,813, Cl. 313-509.000.
Miyazawa, Seiichi: *See*—
Nojiri, Hidetoshi; Miyazawa, Seiichi; Hakamada, Isao; and Hajimoto, Yoshioki, 4,706,254, Cl. 372-46.000.
Miyazawa, Shintaro: *See*—
Kawasaki, Akihisa; Tada, Kohji; Kotani, Toshihiro; and Miyazawa, Shintaro, 4,684,515, Cl. 423-495.000.
Matsumoto, Kazuhisa; Morishita, Hiroshi; Akai, Shinichi; and Miyazawa, Shintaro, 4,645,560, Cl. 156-607.000.
Miyazawa, Shozo: *See*—
Ishii, Wataru; Miyazawa, Shozo; Tsuchiya, Shinji; Nakane, Hisashi; and Yokota, Akira, 4,702,992, Cl. 430-272.000.
Miyazawa, Takeshi: *See*—
Shinokawa, Masahide; Katoh, Yukio; Furuichi, Noriyasu; Miyazawa, Takeshi; and Ogano, Takeo, 4,676,350, Cl. 192-3.620.
Miyazawa, Takeshige: *See*—
Motojima, Kenji; Miyazawa, Takeshige; Toyokawa, Yasufumi; Matsuzawa, Masafumi; Hokari, Hiroshi; and Kusano, Shoji, 4,678,496, Cl. 71-76.000.
Miyazawa, Yoshiaki, to Kabushiki Kaisha Toshiba. Power supply system and a control method thereof. 4,641,042, 2-3-87, Cl. 307-66.000.
Miyazawa, Yoshinobu; Ooishi, Noriko; Aoki, Shigeru; and Tashiro, Yasuhisa, to Nippon Kayaku Kabushiki Kaisha. Process for producing optically active valine. 4,667,054, 5-19-87, Cl. 562-401.000.

iyazawa, Yuji: *See*—
Hirama, Koichi; Miyazawa, Yuji; and Kotake, Haruhiko, 4,703,657, Cl. 73-702.000.
iyazono, Shunichi: *See*—
Higuchi, Kunio; Miyazono, Shunichi; and Toyoguchi, Tsutomu, 4,674,080, Cl. 369-77.200.
iyazono, Tadafumi; Eguchi, Yoshio; Ogino, Akiharu; Sawada, Haruhiko; and Okude, Yoshitaka, to Nippon Paint Co., Ltd. Preparation of graft copolymer and paint use thereof. 4,714,634, 12-22-87, Cl. 427.409.000.
iyo, Tokihiro, to Fujitsu Limited. Frequency converter with automatic frequency control. 4,651,104, 3-17-87, Cl. 328-139.000.
iyo, Tokihiro, to Fujitsu Limited. Automatic gain control circuit. 4,656,630, 4-7-87, Cl. 370-104.000.
iyoshi, Akihiko; and Nakashima, Hitoshi, to Mazda Motor Corporation. Suspension system for vehicle. 4,687,223, 8-18-87, Cl. 280-707.000.
iyoshi, Akihiko: *See*—
Kanazawa, Hirotaka; Tanaka, Takeshi; Furutani, Shigeki; and Miyoshi, Akihiko, 4,673,189, Cl. 280-91.000.
Miyoshi, Akio; and Fukami, Akira, to Sumitomo Metal Mining Company Limited. Hermetic sealing cover and a method of producing the same. 4,643,436, 2-3-87, Cl. 220-359.000.
Miyoshi, Hideaki, to Mitsubishi Denki Kabushiki Kaisha. Laminated layer type fuel cell. 4,686,159, 8-11-87, Cl. 429-39.000.
Miyoshi, Katsuyoshi: *See*—
Terano, Minoru; Yokoyama, Yasushi; Inoue, Masuo; and Miyoshi, Katsuyoshi, 4,640,906, Cl. 502-104.000.
Terano, Minoru; Soga, Hirokazu; Inoue, Masuo; and Miyoshi, Katsuyoshi, 4,686,200, Cl. 502-112.000.
Miyoshi, Kazunori: *See*—
Fukuda, Mitsutoshi; Fukutomi, Makoto; Kogure, Osamu; and Miyoshi, Kazunori, 4,690,887, Cl. 430-331.000.
Miyoshi, Kenichi; and Fuwa, Toru, to Wakunaga Seiyaku Kabushiki Kaisha. Oligonucleotide derivatives. 4,667,025, 5-19-87, Cl. 536-27.000.
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, to Kabushiki Kaisha Kobe Seiko Sho. Screw rotor mechanism with specific tooth profile. 4,671,750, 6-9-87, Cl. 418-150.000.
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, to Kabushiki Kaisha Kobe Seiko Sho. Screw rotor mechanism. 4,695,233, 9-22-87, Cl. 418-83.000.
Miyoshi, Kunisuke; Shimoyama, Yoshiaki; and Kubota, Takeshi, to Nippon Steel Corporation. Non-oriented electrical steel sheet having a low watt loss and a high magnetic flux density and a process for producing the same. 4,661,174, 4-28-87, Cl. 148-111.000.
Miyoshi, Kunisuke; Shimoyama, Yoshiaki; and Kubota, Takeshi, to Nippon Steel Corporation. Non-oriented electrical steel sheet having a low watt loss and a high magnetic flux density and a process for producing the same. 4,666,534, 5-19-87, Cl. 148-111.000.
Miyoshi, Makoto, to Sanko Kinzoku Co., Ltd. Clamp. 4,655,072, 4-7-87, Cl. 72-422.000.
Miyoshi, Masanobu, Takada, Shun; and Onodera, Kaoru, to Konishiroku Photo Industry Co., Ltd. Silver halide photographic light-sensistive material. 4,670,377, 6-2-87, Cl. 430-621.000.
Miyoshi, Masanobu: *See*—
Komorita, Kazuo; Miyoshi, Masanobu; and Onodera, Kaoru, 4,640,889, Cl. 430-505.000.
Miyoshi, Masanori: *See*—
Ishii, Seiji; Miyoshi, Masanori; Ishiwaka, Takumi; and Kondo, Osamu, 4,647,596, Cl. 521-159.000.
Miyoshi, Masato; Kaneda, Yutaka; and Ohga, Juro, to Nippon Telegraph & Telephone Corporation. Inverse control system. 4,683,590, 7-28-87, Cl. 381-71.000.
Miyoshi, Mituji: *See*—
Kamiya, Takeshi; Matsuura, Kazuo; Miyoshi, Mituji; Misumi, Kozo; Kadomatsu, Seiji; and Nose, Shinji, 4,652,616, Cl. 525-331.700.
Miyoshi, Norio: *See*—
Hisazumi, Haruo; and Miyoshi, Norio, 4,676,231, Cl. 128-6.000.
Miyoshi, Noriomi; Tsuruoka, Michihiko; and Nagumo, Mutsumi, to Fuji Electric Co., Ltd. Karman vortex flowmeter. 4,648,280, 3-10-87, Cl. 73-861.240.
Miyoshi, Osamu: *See*—
Kodama, Takuma; Takahashi, Kenji; Ishibash., Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.
Miyoshi, Shoji; and Nomura, Ryuichi, to Toyo Rubber industry Co., Ltd., The. Pneumatic tires having high uniformity. 4,715,418, 12-29-87, Cl. 152-451.000.
Miyoshi, Shuji; and Hijikigawa, Masaya, to Sharp Kabushiki Kaisha. Resistance-variation type moisture sensor. 4,635,027, 1-6-87, Cl. 338-34.000.
Miyoshi, Shuji, and Hijikigawa, Masaya, to Sharp Kabushiki Kaisha. Pressure sensor. 4,682,502, 7-28-87, Cl. 73-723.000.
Miyoshi, Tadayoshi: *See*—
Takanashi, Itsuo; Miyoshi, Tadayoshi; Nakagaki, Shintaro; and Nishiyama, Hiroshi, 4,642,677, Cl. 358-43.000.
Miyoshi, Takahito; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,643,941, 2-17-87, Cl. 428-323.000.
Miyoshi, Takahito; Kasuga, Akira; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Tape for cleaning magnetic head. 4,652,958, 3-24-87, Cl. 360-128.000.
Miyoshi, Takahito; Okutu, Toshimitu; Utumi, Masahiro; Fujiyama, Masaaki; and Aoki, Nobuo, to Fuji Photo Film Co., Ltd. Magnetic recording media. 4,670,333, 6-2-87, Cl. 428-323.000.
Miyoshi, Takahito; Fujiyama, Masaaki; Okutu, Toshimitu; Masuyama, Kenichi; and Nasu, Norio, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,678,697, 7-7-87, Cl. 428-141.000.
Miyoshi, Takahito; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,687,703, 8-18-87, Cl. 428-323.000.
Miyoshi, Takahito; Matsufuji, Akihiro; Yamamoto, Nobuyuki; Miyatsuka, Hajime; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,687,704, 8-18-87, Cl. 428-328.000.
Miyoshi, Takahito; Okutsu, Toshimitu; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,687,706, 8-18-87, Cl. 428-330.000.
Miyoshi, Takahito; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,689,265, 8-25-87, Cl. 428-323.000.
Miyoshi, Takahito; Fujiyama, Masaaki; Matsufuji, Akihiro; and Yamamoto, Nobuyuki, to Fuji Photo Film Co., Ltd. Magnetic recording media and process for producing same. 4,690,863, 9-1-87, Cl. 428-328.000.
Miyoshi, Takahito; Aoki, Nobuo; Yoneyama, Takashi; Kasuga, Akira; Okutu, Toshimitu; Fujiyama, Masaaki; and Okuzawa, Yasutoshi, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,696,859, 9-29-87, Cl. 428-323.000.
Miyoshi, Takahito; Kasuga, Akira; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Tape for cleaning magnetic head. 4,701,364, 10-20-87, Cl. 428-141.000.
Miyoshi, Takahito: *See*—
Aonuma, Masashi; Watanabe, Hideomi; Miyoshi, Takahito; and Okita, Tsutomu, 4,686,149, Cl. 428-522.000.
Yamaguchi, Nobutaka; Miyoshi, Takahito; Okutu, Toshimitu; Hibino, Noburo; Tadokoro, Eiichi; and Fujiyama, Masaaki, 4,650,720, Cl. 428-480.000.
Miyoshi, Terumasa; and Iwama, Shinichi, to Daiwa Seiko Inc. Ski boot. 4,658,517, 4-21-87, Cl. 36-117.000.
Miyoshi, Teturo; and Yokoshita, Toshiaki, to Onoda Cement Company, Ltd. Controller for clinker cooler. 4,654,004, 3-31-87, Cl. 432-80.000.
Miyoshi, Toshiaki: *See*—
Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.
Miyoshi, Yoshitake, to Mita Industrial Co., Ltd. Shell-type electrostatic copying apparatus. 4,702,587, 10-27-87, Cl. 355-3.00R.
Miyoshi Yushi Kabushiki Kaisha: *See*—
Moriya, Masafumi; Hosoda, Kazuo; Nishimura, Akira; and Imachi, Takao, 4,670,160, Cl. 210-728.000.
Moriya, Masafumi; Hosoda, Kazuo; Nishimura, Akira; and Imachi, Takao, 4,670,180, Cl. 252-180.000.
Mize, Max D. Booster handle. 4,685,760, 8-11-87, Cl. 439-822.000.
Mize, Patrick D.: *See*—
O'Connell, James P.; Hoke, Randal A.; and Mize, Patrick D., 4,693,970, Cl. 435-7.000.
Mizelle, Ned W. Articles of furniture and components thereof. 4,651,363, 3-24-87, Cl. 5-57.00R.
Mizelle, Ned W. Bedding units and springs therefor. 4,675,927, 6-30-87, Cl. 5-247.000.
Mizelle, Ned W. Recliner unit with novel locking and actuating mechanism. 4,690,454, 9-1-87, Cl. 297-89.000.
Mizelle, Ned W. Bedding springs and bedding units. 4,703,527, 11-3-87, Cl. 5-247.000.
Mizelle, Ned W. Furniture seat supports and spring assemblies. 4,709,906, 12-1-87, Cl. 267-103.000.
Mizer Controls, Inc.: *See*—
Anderson, R. David; and Jacobs, George S., 4,699,175, Cl. 137-627.500.
Mizer, Michael A., to Murray-Carver, Inc. Seed processor. 4,699,049, 10-13-87, Cl. 99-568.000.
Mizia, Franco: *See*—
Rivetti, Franco; Mizia, Franco; Garone, Guido; and Romano, Ugo, 4,659,845, Cl. 549-438.000.
Mizikowski, Frank E.: *See*—
Balke, Roy L.; Merrifield, Charles H.; and Mizikowski, Frank E., 4,710,662, Cl. 310-204.000.
Mizobuchi, Shigeyuki: *See*—
Otake, Noboru; Tatsuta, Kuniaki; Mizobuchi, Shigeyuki; Komeshima, Nobuyasu; Nakajima, Shohachi; Kawai, Hiroyuki; and Odagawa, Atsuo, 4,710,564, Cl. 536-6.400.
Mizobuchi, Shotaro; Kimura, Yoshikazu; and Sasaki, Katusmi, to Ebara Corporation; and Ebara Research Co., Ltd. Thrust bearing. 4,699,525, 10-13-87, Cl. 384-369.000.
Mizobuchi, Shotaro: *See*—
Tsuji, Seiichi; Ogawara, Kazuhiro; Koide, Shikuo; and Mizobuchi, Shotaro, 4,664,595, Cl. 415-170.00R.
Mizobuchi, Susumu: *See*—
Okumura, Hitoshi; and Mizobuchi, Susumu, 4,668,001, Cl. 296-37.160.
Mizobuchi, Yuzo: *See*—
Kawajiri, Kazuhiro; Tamura, Hiroshi; Shinada, Haruji; Saito, Mitsuo; and Mizobuchi, Yuzo, 4,714,950, Cl. 357-30.000.
Mizoe, Mikio: *See*—
Watanabe, Kanji; Mizoe, Mikio; and Inoo, Eiji, 4,643,929, Cl. 428-36.000.
Watanabe, Kanji; and Mizoe, Mikio, 4,661,387, Cl. 428-36.000.

Mizoe, Shinya: *See*—
Hasegawa, Masazumi; Arai, Shoji; and Mizoe, Shinya, 4,701,473, Cl. 521-118.000.

Mizoe, Toshiyuki: *See*—
Kadokura, Hidekimi; Umezaki, Hiroshi; Murakami, Hideaki; and Mizoe, Toshiyuki, 4,704,266, Cl. 423-600.000.

Mizoguchi, Haruki, to Mizoguchi Iron Works & Co., Ltd. Needle-roller type chuck. 4,660,840, 4-28-87, Cl. 279-1.00N.

Mizoguchi, Hideo. Automatic feed device for a facing head. 4,637,285, 1-20-87, Cl. 82-2.00E.

Mizoguchi, Hitoshi: *See*—
Yanabu, Satoru; Mizoguchi, Hitoshi; Ikeda, Hisatoshi; Suzuki, Katsumi; Toyoda, Mitsuru; and Thuries, Edmond, 4,665,289, Cl. 200-148.00A.

Mizoguchi Iron Works & Co., Ltd.: *See*—
Mizoguchi, Haruki, 4,660,840, Cl. 279-1.00N.
Mizoguchi, Sutemaru, 4,652,189, Cl. 409-136.000.

Mizoguchi, Masafumi: *See*—
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,706, Cl. 84-1.010.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,709, Cl. 84-1.190.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,646,611, Cl. 84-1.190.

Mizoguchi, Ryohei: *See*—
Mure, Hiroshi; Mizoguchi, Ryohei; Yokoi, Shinichi; Fujihara, Shigeru; and Ichikawa, Kaoru, 4,686,687, Cl. 373-22.000.

Mizoguchi, Saburo, to Sharp Kabushiki Kaisha. Humidifier blowoff portion. 4,640,804, 2-3-87, Cl. 261-81.000.

Mizoguchi, Saburo, to Sharp Kabushiki Kaisha. Liquid level indicator for humidifier. 4,644,790, 2-24-87, Cl. 73-293.000.

Mizoguchi, Saburo, to Sharp Kabushiki Kaisha. Supersonic humidifier. 4,708,826, 11-24-87, Cl. 261-30.000.

Mizoguchi, Shoichi, to NEC Corporation. Automatic adaptive equalizer. 4,638,495, 1-20-87, Cl. 375-14.000.

Mizoguchi, Sutemaru, to Mizoguchi Iron Works & Co., Ltd. Cutting tool holder with oil holes. 4,652,159, 3-24-87, Cl. 409-136.000.

Mizoguchi, Takamaro: *See*—
Ikawa, Yasuo; Toyoda, Nobuyuki; Kanazawa, Katsue; Mizoguchi, Takamaro; and Hojo, Akimichi, 4,663,646, Cl. 357-45.000.

Mizoguchi, Takeshi: *See*—
Aratani, Shinichi; Katano, Masaaki; and Mizoguchi, Takeshi, 4,671,814, Cl. 65-30.140.

Mizoguchi, Tetsuhiko; Inomata, Koichiro; Higuchi, Toru; and Sakai, Isao, to Kabushiki Kaisha Toshiba. Permanent magnetic alloy and method of manufacturing the same. 4,664,724, 5-12-87, Cl. 148-302.000.

Mizoguchi, Toshiaki: *See*—
Mizukami, Hidetada; Urata, Tsutomu; Nakagawa, Takashi; Hashimoto, Kunihiro; and Mizoguchi, Toshiaki, 4,705,279, Cl. 279-1.00L.

Mizoguchi, Yoshihiko; Sekine, Keiichi; Komiya, Yasutoyo; and Nishida, Yoshio, to Meiji Seika Kabushiki Kaisha, and Dai Nippon Insatsu Kabushiki Kaisha. Easy-to-open carton for confectionery or other food products including a skive underlying a tearstrip end. 4,657,142, 4-14-87, Cl. 206-606.000.

Mizogui, Toyokazu: *See*—
Someya, Hiromi; Aihara, Yoshihiko; Mizogui, Toyokazu; and Suzuki, Nobuyuki, 4,673,277, Cl. 354-474.000.

Mizohata, Fumio; and Goto, Shigetada, to Mitsubishi Denki Kabushiki Kaisha. Transistor drive circuit. 4,709,161, 11-24-87, Cl. 307-270.000.

Mizohata, Fumio; and Kawabata, Takao, to Mitsubishi Denki Kabushiki Kaisha. Control device for controllable electric valve. 4,710,696, 12-1-87, Cl. 323-223.000.

Mizokami, Hiroshi: *See*—
Ohtomo, Nobuya; Mizuno, Kyosuke; Hamada, Fukusaburo; and Mizokami, Hiroshi, 4,710,378, Cl. 424-89.000.

Mizokawa, Sadao: *See*—
Tomizawa, Hiroshi; Okada, Masakazu; Yasumoto, Seiichi; Mizokawa, Sadao; Fushimi, Hitoshi; Onuki, Ken; Takahashi, Masahiro; and Hamada, Takuji, 4,704,714, Cl. 370-15.000.

Mizota, Hisakazu; Kojima, Shinji; Kodama, Masanori; and Miyazaki, Yasuharu, to Kawasaki Steel Corporation. Method of electromagnetic stirring a molten steel in a mold for a continuous casting. 4,649,985, 3-17-87, Cl. 164-468.000.

Mizota, Hisakazu; and Kojima, Shinji, to Kawasaki Steel Corporation. Continuous caster including an electromagnetic stirring apparatus. 4,706,735, 11-17-87, Cl. 164-504.000.

Mizota, Yasuhiro, to NEC Corporation. Time division multiple access radio communications system. 4,713,809, 12-15-87, Cl. 370-97.000.

Mizrahi, Albert: *See*—
Emerson, William D.; Hill, Deborah J.; Loeb, Karen C.; Mizrahi, Albert; Schlegel, Charles T.; and Scott, Lowell C., 4,646,346, Cl. 379-214.000.

Mizue, Katsuya: *See*—
Ohno, Nobuhiko; Ogiue, Katsumi; Mizue, Katsuya; and Okuda, Noriyoshi, 4,656,606, Cl. 365-104.000.

Mizugaki, Shigeo; and Umeki, Tsunenori, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor read-only memory device. 4,639,892, 1-27-87, Cl. 365-182.000.

Mizugami, Susumu: *See*—
Ishii, Kouichi; Mizugami, Susumu; Tabuchi, Mamoru; Nakamura, Masayuki; Baba, Toshihiko; and Ritoh, Naotake, 4,672,165, Cl. 219-97.000.

Mizuguchi, Hideki; Yamaguchi, Haruo; Hanada, Seigo; and Mukuda, Nobuo, to Japan Steel Works, Ltd., The. Drive device for two-shaft extruding machine. 4,679,461, 7-14-87, Cl. 74-665.0GA.

Mizuguchi, Hidemichi: *See*—
Irikura, Tsutomu; Okamura, Kyuya; Okubo, Hideo; Mizuguchi, Hidemichi; and Yamanaka, Shigeru, 4,650,871, Cl. 544-382.000.

Mizuguchi, Mamoru: *See*—
Sato, Hajime; and Mizuguchi, Mamoru, 4,644,411, Cl. 358-294.000.

Mizuguchi, Masatsugu: *See*—
Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, 4,678,856, Cl. 560-24.000.
Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, 4,699,994, Cl. 560-025.000.

Mizuguchi, Ryuzo: *See*—
Urano, Satoshi; Aoki, Kei; Ito, Takeyasu; Suzuki, Yuji; and Mizuguchi, Ryuzo, 4,666,993, Cl. 525-328.200.

Mizuhara, Howard, to GTE Products Corporation. Tin based ductile brazing alloys. 4,643,875, 2-17-87, Cl. 420-502.000.

Mizuhara, Howard, to GTE Products Corporation. Ductile reactive metal-indium-copper brazing alloy article. 4,661,416, 4-28-87, Cl. 428-606.000.

Mizuhara, Howard, to GTE Products Corporation. Tin based ductile brazing alloys. 4,667,871, 5-26-87, Cl. 228-122.000.

Mizuhara, Howard, to GTE Products Corporation. Ductile brazing alloy containing reactive metals and precious metals. 4,678,636, 7-7-87, Cl. 420-456.000.

Mizuhara, Howard, to GTE Products Corporation. Ceramic and metal brazed articles. 4,679,960, 7-14-87, Cl. 403-272.000.

Mizuhara, Howard, to GTE Products Corporation. Ductile low temperature brazing alloy foil. 4,684,579, 8-4-87, Cl. 428-606.000.

Mizuhara, Howard, to GTE Products Corporation. Article comprising a ductile brazing alloy foil containing reactive metals and precious metals. 4,690,876, 9-1-87, Cl. 428-606.000.

Mizuhara, Howard, to GTE Products Corporation. Method of joining pyrolytic boron nitride. 4,711,386, 12-8-87, Cl. 228-121.000.

Mizuhara, Howard: *See*—
Hsieh, Martin Y.; and Mizuhara, Howard, 4,708,943, Cl. 501-98.000.

Mizuhara, Shuhei: *See*—
Endo, Yasuhisa; Mizuhara, Shuhei; Murakami, Satoshi; Beppu, Osamu; and Toshioka, Saiji, 4,704,997, Cl. 123-198.0DB.

Mizuhashi, Mamoru: *See*—
Kamimori, Tadatoshi; Nagai, Junichi; and Mizuhashi, Mamoru, 4,671,619, Cl. 350-357.000.
Oyama, Takuji; and Mizuhashi, Mamoru, 4,640,867, Cl. 428-432.000.

Mizuhashi, Nobuo: *See*—
Minamida, Katsuhiro; Takafuji, Hideo; Haga, Hiroya; and Mizuhashi, Nobuo, 4,649,256, Cl. 219-121.0LD.

Mizuhiro, Yoji: *See*—
Hiromoto, Yasuhiko; and Mizuhiro, Yoji, 4,676,837, Cl. 106-271.000.

Mizukado, Masayoshi; Morishita, Akio; and Muto, Yoshihiro, to Yamazaki Machinery Works, Ltd. Turret punch press. 4,640,166, 2-3-87, Cl. 83-552.000.

Mizukami, Etsuo: *See*—
Endo, Yoshihiro; Mizukami, Etsuo; Kishishita, Hiroshi; and Uede, Hisashi, 4,686,110, Cl. 427-38.000.

Mizukami, Hidetada; Urata, Tsutomu; Nakagawa, Takashi; Hashimoto, Kunihiro; and Mizoguchi, Toshiaki, to Ye Data Inc. Device for clamping a flexible disk. 4,705,279, 11-10-87, Cl. 279-1.00L.

Mizukami, Hiroyuki, to Kabushiki Kaisha Komatsu Seisakusho. Photosensitive member for use in electrophotography. 4,699,861, 10-13-87, Cl. 430-64.000.

Mizukami, Masamichi: *See*—
Sugio, Akitoshi; Okabe, Masao; Mizukami, Masamichi; and Sekine, Yoshihiko, 4,686,131, Cl. 428-158.000.

Mizukami, Masao: *See*—
Takahashi, Yukio; Hayase, Isao; Amano, Keijirou; Mizukami, Masao; and Ishiguri, Masaaki, 4,711,620, Cl. 418-96.000.

Mizukami, Tamio: *See*—
Itoh, Seiga; Nishi, Tatsunari; Mizukami, Tamio; Matsumoto, Tadashi; Oka, Tetsuo; Taniguchi, Tadatsugu; and Sugano, Haruo, 4,686,191, Cl. 435 320.000.
Sekine, Susumu; Mizukami, Tamio; Sato, Moriyuki; Itoh, Seiga; and Saito, Akiko, 4,689,402, Cl. 530-399.000.

Mizuko, Tsutomu; Tsukahara, Toshiyuki; Yoshida, Masahiro; and Nemoto, Koji, to Nippon Mektron, Ltd. Flexible circuit board and method of making the same. 4,675,786, 6-23-97, Cl. 361-398.000.

Mizukoshi, Katsuro: *See*—
Miyauchi, Tateoki; Yamaguchi, Hiroshi; Hongo, Mikio; Mizukoshi, Katsuro; Shimase, Akira; and Satoh, Ryohei, 4,687,939, Cl. 250-492.200.

Mizukoshi, Kiyoshi: *See*—
Ohno, Sachio; Ebihara, Yuko; Mizukoshi, Kiyoshi; Ichihara, Kenji; Ban, Takao; and Nagasaka, Mitsuaki, 4,713,457, Cl. 546-67.000.

Mizukoshi, Yukio: *See*—
Nozawa, Koji; and Mizukoshi, Yukio, 4,642,985, Cl. 60-435.000.

Mizumoto, Hiroji: *See*—
Harada, Kaoru; Shimoyama, Akira; and Mizumoto, Hiroji, 4,696,981, Cl. 525-328.200.

Mizumoto, Mamoru: *See*—
Kawamura, Fumio; Matsuda, Masami; Aoyama, Yoshiyuki; Chino, Koichi; and Mizumoto, Mamoru, 4,636,335, Cl. 252-629.000.

Mizumoto, Masakatsu; and Umano, Yasuhiro, to Kabushiki Kaisha Komatsu Seisakusho. Control circuit for transfer device. 4,654,569, 3-31-87, Cl. 318-568.000.

Mizumoto, Muneo; Inouye, Hiroshi; and Kitsunai, Hiroyuki, to Hitachi, Ltd. Magnetic liquid seal with magnetized deformable magnet. 4,708,350, 11-24-87, Cl. 277-80.000.

Mizumoto, Shozo: *See*—
Kinoshita, Akemi; Araki, Ken; Nawafune, Hidemi; and Mizumoto, Shozo, 4,650,691, Cl. 427-8.000.

Mizumoto, Yasuharu: *See*—
Hata, Ryosuke; Yamanouchi, Shosuke; Hirose, Masayuki; Kuwabara, Hidemitsu; Mizumoto, Yasuharu; and Haguoda, Yasuhiro, 4,673,607, Cl. 428-172.000.

Mizumoto, Yukihiro: *See*—
Ishii, Hiroshi; Nakai, Syunzi; and Mizumoto, Yukihiro, 4,695,847, Cl. 346-1.100.

Mizumura, Sakae: *See*—
Sekiya, Yoshiyuki; Mizumura, Sakae; and Kihara, Teruo, 4,703,726, Cl. 123-196.0AB.

Mizuno, Akira; and Clements, Judson S., to Florida State University. Method of removing SO_2, NOy and particles from gas mixtures using streamer corona. 4,695,358, 9-22-87, Cl. 204-174.000.

Mizuno, Chiaki: *See*—
Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, 4,649,081, Cl. 428-447.000.
Ogawa, Hiroshi; Mizuno, Chiaki; Tamai, Yasuo; and Kamiyama, Koozi, 4,680,225, Cl. 428-323.000.
Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, 4,687,710, Cl. 428-447.000.
Ono, Toshio; Tamai, Yasuo; Mizuno, Chiaki; Ogawa, Hiroshi; and Saito, Shinji, 4,710,421, Cl. 428-213.000.

Mizuno Corporation: *See*—
Hayashi, Keijiro; Shinya, Kenzo; Saeki, Yasuo; and Asai, Shigeru, 4,697,820, Cl. 280-609.000.
Hayashi, Keijiro; Shinya, Kenzo; Awano, Toshimi; and Asai, Shigeru, 4,697,821, Cl. 280-609.000.
Hayashi, Keijiro; and Awano, Toshimi, 4,711,462, Cl. 280-610.000.

Mizuno, Fumio: *See*—
Ando, Minato; Ito, Masaaki; and Mizuno, Fumio, 4,643,985, Cl. 501-136.000.
Ando, Minato; Ito, Masaaki; and Mizuno, Fumio, 4,668,646, Cl. 501-136.000.

Mizuno, Hideaki; and Doi, Keiichiro, to Victor Company of Japan, Ltd. Stylus for capacity change detection type disc system. 4,646,282, 2-24-87, Cl. 369-126.000.

Mizuno, Hiroshi; Iino, Shuji; Osawa, Izumi; and Doi, Isao, to Minolta Camera Kabushiki Kaisha. Photosensitive member with an amorphous silicon-containing insulating layer. 4,659,639, 4-21-87, Cl. 430-65.000.

Mizuno, Hiroshi: *See*—
Sakurai, Takashi; Mizuno, Hiroshi; and Shibata, Yoshihisa, 4,651,085, Cl. 324-58.50R.

Mizuno, Hirotaka; and Komura, Fuminobu, to Hitachi, Ltd. Method of and apparatus for detecting heights of points on surface of object. 4,700,398, 10-13-87, Cl. 382-1.000.

Mizuno, Hirotaka: *See*—
Seto, Youichi; Homma, Koichi; Komura, Fuminobu; Yamagata, Shimbu; Kubo, Yutaka; and Mizuno, Hirotaka, 4,682,300, Cl. 364-571.000.

Mizuno, Hirotoshi: *See*—
Hayashi, Kazuhiko; Iwata, Masayosi; Tada, Mikio; and Mizuno, Hirotoshi, 4,659,882, Cl. 200-16.00R.

Mizuno, Hitoshi: *See*—
Nakashima, Seiichiro; Toyoda, Kenichi; Nihei, Ryo; and Mizuno, Hitoshi, 4,688,984, Cl. 414-735.000.

Mizuno, Ichiro: *See*—
Takizawa, Kinji; Mizuno, Ichiro; and Sugizaki, Iwao, 4,679,326, Cl. 33-170.000.

Mizuno, Isao: *See*—
Imamura, Masanaga; and Mizuno, Isao, 4,680,592, Cl. 346-1.100.

Mizuno, Junzi: *See*—
Kobayashi, Toshiki; Fukami, Akira; Mizuno, Junzi; and Sasaya, Hideaki, 4,660,879, Cl. 296-1.00S.

Mizuno, Katsuhiro: *See*—
Itoh, Yoshitoshi; Mizuno, Katsuhiro; and Noguchi, Atomi, 4,682,845, Cl. 350-96.180.
Tomizawa, Fumio; Mizuno, Katsuhiro; Ozaki, Norihiko; and Tsuchita, Kenji, 4,668,976, Cl. 358-27.000.

Mizuno, Keiichiro; Iida, Kazuyoshi; and Murakami, Kazutomo, to Bridgestone Corporation. Gears with damped vibration. 4,635,501, 1-13-87, Cl. 74-574.000.

Mizuno, Keisuke; Kondou, Eiichirou; Tahara, Kenji; and Sekikawa, Ayako, to Kurita Water Industries Ltd. Wet spray booth treating agent and method for treatment therewith. 4,656,059, 4-7-87, Cl. 427-345.000.

Mizuno, Kenji, to Mizuno Tekko Kabushiki Kaisha. Uncontrolled angular displacement compensating device for industrial robot. 4,645,408, 2-24-87, Cl. 414-733.000.

Mizuno, Kenji: *See*—
Onoda, Hiroshi; and Mizuno, Kenji, 4,644,367, Cl. 346-33.00R.
Onoda, Hiroshi; and Mizuno, Kenji, 4,682,902, Cl. 400-18.000.

Mizuno, Kensaku: *See*—
Matsuo, Hisayuki; Mizuno, Kensaku; and Tanaka, Takaharu, 4,650,763, Cl. 435-224.000.
Matsuo, Hisayuki; Mizuno, Kensaku; and Tanaka, Takaharu, 4,704,359, Cl. 435-69.000.

Mizuno, Kuniaki: *See*—
Kawai, Hiroshi; Ohtsuka, Yukio; and Mizuno, Kuniaki, 4,644,996, Cl. 164-336.000.
Kawai, Hiroshi; Ohtsuka, Yukio; and Mizuno, Kuniaki, 4,674,551, Cl. 164-4.100.

Mizuno, Kyosuke: *See*—
Ohtomo, Nobuya; Mizuno, Kyosuke; Hamada, Fukusaburo; and Mizokami, Hiroshi, 4,710,378, Cl. 424-89.000.

Mizuno, Masahiro: *See*—
Yamada, Mikio; Tsukamoto, Yoshinori; and Mizuno, Masahiro, 4,654,215, Cl. 426-17.000.
Yamada, Mikio; Mizuno, Masahiro; Tsukamoto, Yoshinori; and Yamada, Koki, 4,656,140, Cl. 436-131.000.
Yamada, Mikio; Tsukamoto, Yoshinori; and Mizuno, Masahiro, 4,692,414, Cl. 435-291.000.

Mizuno, Masanori: *See*—
Iwata, Akihiko; Katou, Yoshiaki; and Mizuno, Masanori, 4,665,299, Cl. 219-130.210.

Mizuno, Masao, to Omron Tateisi Electronics Co. System for collecting and processing data relating to moving bodies. 4,674,069, 6-16-87, Cl. 367-90.000.

Mizuno, Masao: *See*—
Ibata, Koichi; Takigawa, Tetsuo; Okada, Masafumi; Mizuno, Masao; and Nishida, Takashi, 4,668,820, Cl. 560-248.000.
Kameyama, Tsutomu; Kitamura, Jiro; Takigawa, Tetsuo; and Mizuno, Masao, 4,703,061, Cl. 514-551.000.

Mizuno, Naohito: *See*—
Atsumi, Morihiro; Nunogaki, Naochika; Ito, Novuet; and Mizuno, Naohito, 4,644,133, Cl. 219-270.000.
Ito, Novuet; Nishida, Minoru; Mizuno, Naohito; and Hattori, Tadashi, 4,712,082, Cl. 338-4.000.

Mizuno, Satoshi, to Mitutoyo Mfg. Co., Ltd. Surface roughness measuring instrument. 4,665,739, 5-19-87, Cl. 73-105.000.

Mizuno, Shigeo; Kubota, Kazuhisa; and Ichikawa, Takafumi, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Steering wheel device. 4,674,352, 6-23-87, Cl. 74-484.00R.

Mizuno, Takaji: *See*—
Awano, Yoshiro; Suzuki, Hiroshi; Mizuno, Takaji; Ueguri, Shigeo; and Higashida, Kenji, 4,697,062, Cl. 219-130.510.

Mizuno, Takao; Arata, Tetsuya; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuno, Hiroaki, to Hitachi, Ltd. Scroll compressor with pressure differential maintained for supplying oil. 4,669,962, 6-2-87, Cl. 418-55.000.

Mizuno, Takao; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuroshima, Ryoichi, to Hitachi, Ltd. Scroll compressor with closed compression spaces having valves to reduce starting torque. 4,714,415, 12-22-87, Cl. 418-14.000.

Mizuno, Takao: *See*—
Murayama, Akira; Kuno, Hiroaki; Uchikawa, Naoshi; Tamura, Takahiro; Mizuno, Takao; Aiba, Kazumi; Ikeda, Mitsuo; and Fukatsu, Kiyoshi, 4,690,625, Cl. 418-55.000.

Mizuno, Takashi; and Kobayashi, Akihiro, to Tokyo Juki Industrial Co., Ltd. Embroidery machine control device having means to input new character patterns into a pre-programmed series of patterns. 4,674,420, 6-23-87, Cl. 112-78.000.

Mizuno, Takehisa: *See*—
Hosoda, Atsushi; Satoh, Tadao; and Mizuno, Takehisa, 4,656,212, Cl. 524-269.000.

Mizuno, Takeshi: *See*—
Higuchi, Toshiro; Mizuno, Takeshi; and Aikawa, Noboru, 4,642,500, Cl. 310-90.500.

Mizuno, Takeyuki; and Kurokawa, Teruhisa, to NGK Insulators, Ltd. Method of manufacturing ceramics. 4,647,414, 3-3-87, Cl. 264-65.000.

Mizuno Tekko Kabushiki Kaisha: *See*—
Mizuno, Kenji, 4,645,408, Cl. 414-733.000.

Mizuno, Tetsuo; Marumoto, Yoshio; and Yamada, Kouji, to Bridgestone Corporation. Method and apparatus for detecting tire information mark. 4,700,078, 10-13-87, Cl. 250-566.000.

Mizuno, Tiaki: *See*—
Abe, Tomoaki; Fujisawa, Hideya; Omori, Norio; Kinugawa, Masumi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; and Yamada, Toshitaka, 4,713,765, Cl. 364-431.050.
Akiyama, Susumu; Ito, Katsunori; Yamada, Toshitaka; Mizuno, Tiaki; and Kinugawa, Masumi, 4,669,306, Cl. 73-204.000.
Ina, Katsuhiro; Sato, Yoshihisa; Kinugawa, Masumi; Suzuki, Atsushi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; Yamada, Toshitaka; and Abe, Tomoaki, 4,665,745, Cl. 73-204.000.
Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; Suzuki, Atsushi; and Sugiura, Kengo, 4,680,964, Cl. 73-204.000.
Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; and Suzuki, Atsushi, 4,683,858, Cl. 123-486.000.

Mizuno, Tomokimi, to Aisin Seiki Kabushiki Kaisha. Regenerator. 4,651,808, 3-24-87, Cl. 165-4.000.

Mizuno, Tooru; Oosugi, Keizi; Esaki, Motoharu; and Ogawa, Takao, to Nippondenso Co., Ltd. Electronic odometer. 4,682,287, 7-21-87, Cl. 364-561.000.

Mizuno, Tooru: *See*—
Toyoda, Kenichi; Sakakibara, Shinsuke; Mizuno, Tooru; and Hara, Ryuichi, 4,698,777, Cl. 364-513.000.

Mizuno, Toru: *See*—
Nanba, Sinzi; Matsui, Kazuma; Mizuno, Toru; and Goto, Tukasa, 4,696,193, Cl. 73-861.220.
Mizuno, Toshiaki: *See*—
Abe, Shimichi; and Mizuno, Toshiaki, 4,637,364, Cl. 123-402.000.
Mizuno, Toshiya, to Kureha Kagaku Kogyo Kabushiki Kaisha. Shaped article of vinylidene fluoride resin and process for preparing thereof. 4,667,001, 5-19-87, Cl. 526-255.000.
Mizuno, Toshiya, to Kureha Kagaku Kogyo Kabushiki Kaisha. Shaped article of vinylidene fluoride resin and process for preparing thereof. 4,670,527, 6-2-87, Cl. 526-255.000.
Mizuno, Toshiya: *See*—
Murayama, Naohiro; Kakutani, Haruko; Mizuno, Toshiya; Nakamura, Kenichi; and Terasaki, Syuji, 4,656,234, Cl. 526-255.000.
Mizuno, Tsutomu: *See*—
Yamamoto, Sakae; and Mizuno, Tsutomu, 4,714,849, Cl. 310-12.000.
Mizuno, Yoshikatsu: *See*—
Anahara, Meiji; Mizuno, Yoshikatsu; Hirano, Mitsutoshi; and Gomi, Fukuo, 4,671,336, Cl. 164-110.000.
Mizuno, Yoshikazu; Gonda, Katsumi; Ikuma, Akira; and Ochiai, Takeshi, to Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Automotive vehicle speed control system. 4,650,020, 3-17-87, Cl. 180-176.000.
Mizuno, Yoshikazu; Ninoyu, Yutaka; Suzuki, Motoyoshi; and Ikuma, Akira, to Nippondenso Co., Ltd. Impedance discriminator responsive to operation of switches mounted on a steering wheel. 4,658,150, 4-14-87, Cl. 307-10.00R.
Mizuno, Yoshikuni: *See*—
Yoshida, Mitsuo; Mizuno, Yoshikuni; Shimizu, Natsue; Otsuka, Mieko; Dobutsu, Masakatsu; Furukawa, Yuusuke; and Joshita, Yutaka, 4,690,949, Cl. 514-561.000.
Mizuno, Yoshio, to Canon Kabushiki Kaisha. Image processing apparatus. 4,704,637, 11-3-87, Cl. 358-780.000.
Mizuno, Yuji: *See*—
Ando, Isao; Tazawa, Hiroaki; Sako, Yuji; Ootsuka, Shigeharu; Mizuno, Yuji; and Ikeda, Kosaku, 4,671,697, Cl. 403-325.000.
Ootsuka, Shigeharu; and Mizuno, Yuji, 4,650,935, Cl. 200-16.00A.
Ootsuka, Shigeharu; and Mizuno, Yuji, 4,698,726, Cl. 361-335.000.
Mizuno, Yutaka: *See*—
Kishi, Hajimu; Seki, Masaki; and Mizuno, Yutaka, 4,636,937, Cl. 364-191.000.
Kishi, Hajimu; Seki, Masaki; and Mizuno, Yutaka, 4,676,674, Cl. 400-4.000.
Kishi, Hajimu; Seki, Masaki; and Mizuno, Yutaka, 4,677,543, Cl. 364-191.000.
Mizunoe, Katsumi; Yanai, Junichi; and Kimoto, Kiyoshi, to Nippon Kogaku K. K. Optical head for information recording apparatus. 4,641,296, 2-3-87, Cl. 369-46.000.
Mizunoya, Nobuyuki; Kohama, Hajime; and Sugiura, Yasuyuki, to Tokyo Shibaura Denki Kabushiki Kaisha. Method for directly bonding ceramic and metal members and laminated body of the same. 4,693,409, 9-15-87, Cl. 228-122.000.
Mizunoya, Nobuyuki; Sugiura, Yasuyuki; and Hatori, Masakazu, to Kabushiki Kaisha Toshiba. Substrate structure. 4,704,320, 11-3-87, Cl. 428-210.000.
Mizusaki, Shigenobu; Yoshida, Daisuke; and Saito, Yutaka, to Japan Tobacco Inc. Antitumor agent. 4,701,570, 10-20-87, Cl. 568-821.000.
Mizusaki, Yoshinobu, to Nissin Kogyo Kabushiki Kaisha. Quick fill type master cylinder. 4,667,466, 5-26-87, Cl. 60-578.000.
Mizusawa, Akira, to Nifco Inc. Plastic fastener for spacing and supporting two plates. 4,644,614, 2-24-87, Cl. 24-453.000.
Mizusawa, Akira, to Nifco Inc. Damper. 4,653,616, 3-31-87, Cl. 188-290.000.
Mizusawa, Akira; and Nakama, Daiji, to Nifco, Inc. Ball joint. 4,679,958, 7-14-87, Cl. 403-143.000.
Mizusawa, Akira, to Nifco, Inc. Filter device for in-tank type fuel pump for vehicle. 4,684,463, 8-4-87, Cl. 210-172.000.
Mizusawa, Akira, to Nifco Inc. Ventilator device for vehicle. 4,691,623, 9-8-87, Cl. 98-2.180.
Mizusawa, Akira, to Nifco Inc. Ball joint. 4,701,064, 10-20-87, Cl. 403-71.000.
Mizusawa, Akira, to Nifco Inc. Device for holding automobile fuel-tank filler port cap. 4,705,190, 11-10-87, Cl. 220-375.000.
Mizusawa, Akira, to Nifco, Inc. Plastic fastener. 4,708,895, 11-24-87, Cl. 428-31.000.
Mizusawa Industrial Chemicals, Ltd.: *See*—
Nakamura, Seiichi; Saito, Mamoru; and Sugawara, Toshiaki, 4,659,506, Cl. 252-399.000.
Usui, Koichi; Sato, Teiji; and Tanaka, Masanori, 4,681,749, Cl. 423-326.000.
Mizusawa, Kenichi: *See*—
Yamawaki, Masakatsu; Sakamoto, Isamu; Mizusawa, Kenichi; and Iwamoto, Eiji, 4,642,467, Cl. 250-492.300.
Mizusawa, Masashi: *See*—
Watanabe, Hiroshi; Shimamura, Isao; Abe, Masao; and Mizusawa, Masashi, 4,659,439, Cl. 204-37.600.
Mizusawa, Mitutoyo; and Horiuchi, Makoto, to Nissin Kogyo Kabushiki Kaisha; and Honda Giken Kogyo Kabushiki Kaisha. Master cylinder and oil-hydraulic booster assembly. 4,642,990, 2-17-87, Cl. 60-554.000.
Mizusawa, Nobutoshi; and Koumura, Noboru, to Canon Kabushiki Kaisha. Recording apparatus with a carriage-mounted ink tank and overflow tank. 4,677,448, 6-30-87, Cl. 346-140.00R.
Mizusawa, Nobutoshi: *See*—
Nishimura, Yukuo; Asano, Toshiaki; Mizusawa, Nobutoshi; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kuntaka, 4,640,592, Cl. 350-96.320.
Nishimura, Yukuo; Kawakami, Eigo; Asano, Toshiaki; Haruta, Masahiro; Takagi, Hiroshi; Noma, Takashi; Mizusawa, Nobutoshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,685,766, Cl. 350-96.320.
Mizusawa, Tsutomu: *See*—
Toba, Akira; and Mizusawa, Tsutomu, 4,656,537, Cl. 360-73.000.
Mizushima, Kunio: *See*—
Maruyama, Hiroshi; Mizushima, Kunio; Sakemoto, Akito; and Umebayashi, Nobuhiro, 4,695,910, Cl. 360-133.000.
Matsumoto, Fujio; Doi, Hajime; Mizushima, Kunio; Funahashi, Masaya; Taniguchi, Tomizo; and Sakamoto, Shouchi, 4,709,816, Cl. 206-444.000.
Mizushima, Toshiaki: *See*—
Toda, Takao; Mizushima, Toshiaki; and Kashiwagi, Kazuo, 4,665,318, Cl. 250-570.000.
Mizushima, Toshio: *See*—
Asai, Masahiro; Mizushima, Toshio; Kawai, Toshiro; Akutsu, Shigemitsu; and Uozumi, Yoshiaki, 4,706,617, Cl. 123-65.0PE.
Ooyama, Kazuo; Ooki, Kenji; and Mizushima, Toshio, 4,711,201, Cl. 123-73.00A.
Tottori, Takumi; Oki, Kenji; Ooyama, Kazuo; and Mizushima, Toshio, 4,714,056, Cl. 123-65.0PE.
Mizushima, Toyoshi: *See*—
Hayashi, Tadamasa; and Mizushima, Toyoshi, 4,710,266, Cl. 159-7.000.
Mizushima, Yutaka; Fuji, Mitsuharu; and Takei, Hiroshi, to Lederle (Japan), Ltd. Pharmaceutical oil-in-water type micro-emulsion. 4,647,586, 3-3-87, Cl. 514-532.000.
Mizushima, Yutaka: *See*—
Imagawa, Takashi; Yokoyama, Kazumasa; and Mizushima, Yutaka, 4,684,633, Cl. 514-78.000.
Mizushina, Masaaki: *See*—
Yamada, Takemi; Satoh, Tamataro; Mizushina, Masaaki; Toyota, Koji; and Okamoto, Hiromi, 4,661,371, Cl. 427-49.000.
Mizushina, Youichi, to Denkoh Co. Ltd. Vertical furnace for heat-treating semiconductor. 4,695,706, 9-22-87, Cl. 219-390.000.
Mizuta, Akira, to Fuji Photo Film Co., Ltd. Magnetic tape cassette assembling method and apparatus. 4,696,087, 9-29-87, Cl. 29-434.000.
Mizuta, Atsuo: *See*—
Kokubo, Ichiro; Mizuta, Atsuo; Yamamoto, Yoshitaka; and Kitazawa, Jitsuo, 4,712,414, Cl. 72-366.000.
Mizuta, Ken; and Kondo, Shiro, to Alps Electric Co., Ltd. Driving position control system for automobiles. 4,689,537, 8-25-87, Cl. 318-563.000.
Mizuta, Ken; and Kondo, Shiro, to Alps Electric Co., Ltd. Position control apparatus for automobile driver. 4,698,571, 10-6-87, Cl. 318-568.000.
Mizuta, Ken, to Alps Electric Co., Ltd. Power window device with safety detector and control override. 4,709,196, 11-24-87, Cl. 318-282.000.
Mizuta, Masaji: *See*—
Nishida, Fumihiko; Shimizu, Yasumasa; Yoshida, Tomohiro; Urata, Makoto; Hotta, Tomiji; Mizuta, Masaji; and Yamashita, Hiroshi, 4,679,930, Cl. 355-52.000.
Mizuta, Yukio: *See*—
Suzuki, Akira; Mizuta, Yukio; Sato, Rejiro; and Shimizu, Kunio, 4,688,156, Cl. 362-354.000.
Mizutani, Futoshi; Tanaka, Gotaro; and Kanamori, Hiroo, to Sumitomo Electric Industries, Ltd. Process of producing a highly pure glass tube. 4,666,488, 5-19-87, Cl. 65-3.120.
Mizutani, Futoshi: *See*—
Tanaka, Gotaro; Mizutani, Futoshi; Yoshioka, Naoki; and Kanamori, Hiroo, 4,675,040, Cl. 65-3.120.
Yokota, Hiroshi; Tanaka, Gotaro; Kanamori, Hiroo; Mizutani, Futoshi; and Danzuka, Toshio, 4,668,263, Cl. 65-3.110.
Mizutani, Hideo: *See*—
Mitani, Kiyoharu; Morohashi, Kazuo; Yamada, Kenji; Gonda, Tsunemi; and Mizutani, Hideo, 4,641,964, Cl. 356-124.000.
Mizutani, Hiroyasu: *See*—
Okuyama, Katsumi; and Mizutani, Hiroyasu, 4,704,238, Cl. 264-41.000.
Mizutani, Hiroyuki, to Kabushiki Kaisha Toshiba. Individual discrimination card. 4,650,980, 3-17-87, Cl. 235-380.000.
Mizutani, Isao; and Enomoto, Akio, to NGK Insulators, Ltd. Condensation resistant electrode for use in a dielectric heating apparatus. 4,692,581, 9-8-87, Cl. 219-10.810.
Mizutani, Kansei: *See*—
Sato, Akira; Sato, Kazuo; Saito, Takaharu; Shima, Junkoh; Mizutani, Kansei; and Mikawa, Toshimasa, 4,713,767, Cl. 364-453.000.
Mizutani, Kiyoshi: *See*—
Inada, Yasuo; Sato, Koki; Fuji, Takazo; Yokoyama, Hideo; Takahashi, Shoichi; Mizutani, Kiyoshi; Kawashima, Takayoshi; and Nagawa, Akira, 4,664,333, Cl. 242-107.40A.
Mizutani, Masashi, to Konan Electric Co., Ltd. Case guard device for air filter and lubricator of compressed air system. 4,707,168, 11-17-87, Cl. 55-274.000.
Mizutani, Masayuki: *See*—
Ozawa, Shinichi; and Mizutani, Masayuki, 4,658,212, Cl. 324-158.00F.

Mizutani, Michitaka, to Kyocera Corporation. Process for preparation of sintered silicon nitride body. 4,643,858, 2-17-87, Cl. 264-62.000.
Mizutani, Minoru. *See*—
Matsuda, Kiyoshi; and Mizutani, Minoru, 4,669,333, Cl. 74-810.000.
Mizutani, Morikazu; Onoda, Shigeyoshi; and Kanemitsu, Shinji, to Canon Kabushiki Kaisha. Image forming apparatus with locking means. 4,705,384, 11-10-87, Cl. 355-3.00R.
Mizutani, Morikazu. *See*—
Nishino, Fumio; Onoda, Shigeyoshi; Nomura, Akihiro; Mizutani, Morikazu; Kanemitsu, Shinji; and Toriumi, Mototada, 4,714,337, Cl. 355-3.0DR.
Mizutani, Motoharu, to Kabushiki Kaisha Toshiba. Two dimensional coding apparatus. 4,656,523, 4-7-87, Cl. 358-260.000.
Mizutani, Norio; and Kasai, Toshiyuki, to Nippon Kogaku K. K. Illumination apparatus for testing photoelectric transducer device. 4,648,695, 3-10-87, Cl. 353-28.000.
Mizutani, Takashi. *See*—
Baba, Toshio; Mizutani, Takashi; and Ogawa, Masaki, 4,695,857, Cl. 357-16.000.
Mizutani, Taku. *See*—
Watanabe, Naoharu; Numata, Kazuo; Yamagishi, Michio; Mizutani, Taku; Omura, Sadafumi; and Yamaguchi, Hideyo, 4,680,311, Cl. 514-561.000.
Mizutani, Tetsuya. *See*—
Sakai, Hideo; Mizutani, Tetsuya; and Yoshimi, Takeo, 4,699,825, Cl. 428-337.000.
Mizutani, Tomoharu, to Meiso Yoko Company, Ltd. Method and apparatus for cleaning step boards of escalator. 4,664,719, 5-12-87, Cl. 134-6.000.
Mizutani, Toshikazu. *See*—
Kakizaki, Tetsuji; Mizutani, Toshikazu; and Yui, Hiroshi, 4,696,765, Cl. 252-511.000.
Mizutani, Yasukazu. *See*—
Ubukata, Susumu; Mizutani, Yasukazu; and Iyoda, Syozo, 4,672,353, Cl. 337-368.000.
Mizutani, Yoshihiko; and Shibata, Kazuyoshi, to NGK Insulators, Ltd. Method of detecting oxygen partial pressure. 4,666,566, 5-19-87, Cl. 204-1.00T.
Mizutani, Yoshihiko. *See*—
Nishizawa, Hitoshi; and Mizutani, Yoshihiko, 4,645,572, Cl. 204-1.00T.
Mizutani, Yoshihisa, to Kabushiki Kaisha Toshiba. Method of producing semiconductor device. 4,637,128, 1-20-87, Cl. 29-576.00B.
Mizutani, Yoshihisa; and Yokogawa, Syunzi, to Kabushiki Kaisha Toshiba. Method for manufacturing a recessed semiconductor device. 4,642,880, 2-17-87, Cl. 29-576.00B.
Mizutani, Yoshihisa, to Kabushiki Kaisha Toshiba. Electrically erasable and programmable read only memory. 4,661,833, 4-28-87, Cl. 357-54.000.
Mizutani, Yoshihisa, to Tokyo Shibaura Denki Kabushiki Kaisha. Semiconductor memory device. 4,665,418, 5-12-87, Cl. 357-23.500.
Mizutani, Yoshihisa, to Tokyo Shibaura Denki Kabushiki Kaisha. Stacked complementary metal oxide semiconductor inverter. 4,698,659, 10-6-87, Cl. 357-42.000.
Mizutani, Yoshiki; and Ito, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Contour detecting filter. 4,677,461, 6-30-87, Cl. 358-37.000.
Mizutani, Yoshiki. *See*—
Ito, Hiroshi; and Mizutani, Yoshiki, 4,706,113, Cl. 358-37.000.
Mizutani, Yuji. *See*—
Takeda, Tamio; Gokyu, Toshio; Mizutani, Yuji; and Nakashima, Jun, 4,678,954, Cl. 310-156.000.
Mizutome, Atsushi. *See*—
Kanno, Hideo; Yamashita, Shinichi; Enari, Masahiko; Kuno, Mitsutoshi; and Mizutome, Atsushi, 4,714,921, Cl. 340-784.000.
Mizuuchi, Kiyoshi; Mizuuchi, Michiyo; and Adachi, Toshiro, to United States of America, Health and Human Services. Mini Mu containing plasmid and a method for rapid DNA sequencing. 4,716,105, 12-29-87, Cl. 435-5.000.
Mizuuchi, Michiyo. *See*—
Mizuuchi, Kiyoshi; Mizuuchi, Michiyo; and Adachi, Toshiro, 4,716,105, Cl. 435-5.000.
Mjoberg, Jan-Olov, to Mora Hydraulics Aktiebolag. Recovery vehicle device. 4,700,852, 10-20-87, Cl. 212-189.000.
Mjoberg, Per J. *See*—
Hartler, Nils J. C.; Lekander, Karl-Erik; Sjodin, Lars T.; and Mjoberg, Per J., 4,690,731, Cl. 162-45.000.
Mjuntser, Elena G. *See*—
Kostylev, Alexandr D.; Syryamin, Jury N.; Smolyaritsky, Boris N.; Boginsky, Vladimir P.; Terskov, Alexei D.; Mjuntser, Elena G.; and Petreev, Anatoly M., 4,653,596, Cl. 173-135.000.
Mkhikian, Robert M.; Shaginian, Suren G.; Markarian, Temur G.; Khaidukov, Georgy K.; Velidzhanian, Sofia V.; Manukian, Artashes R.; Karapetian, Artur K.; Kazarian, Aram V.; and Airapetian, Robert R., to Nauchno-Issledovatelsky Institut Stroitelstva I Arkhitektury. Apparatus for molding articles from fibrous concrete. 4,708,628, 11-24-87, Cl. 425-406.000.
MKS Instruments, Inc.. *See*—
Benson, Richard A.; and Alden, David H., 4,683,910, Cl. 137-519.000.
Ewing, James H., 4,679,585, Cl. 137-486.000.
ML Corporation: *See*—
Nineberg, Edward; and Menaker, Mark, 4,694,947, Cl. 193-34.000.
Minar, Jerry W.; and Neumayer, John, to Minnesota Mining and Manufacturing Company. Test method and article for estimating the concentration of free acid in liquid. 4,654,309, 3-31-87, Cl. 436-61.000.
Minaric, Antoon A.; and Neunsann, Donald F., to Datatape Inc. Frame for positioning transducing head. 4,647,999, 3-3-87, Cl. 360-109.000.
MLR Electronic: *See*—
Lamiraux, Christian, 4,695,843, Cl. 342-417.000.
Mlynczak, Margaret M.; and Stern, Michael E., to Stern, Michael E.; and Mlynczak, Margaret M. Fission product barrier emergency event classification and response system. 4,657,727, 4-14-87, Cl. 376-217.000.
Mlynek, Daniel, to ITT Industries, Inc. Binary MOS ripple-carry parallel adder/subtracter and adder/subtracter stage suitable therefor. 4,683,548, 7-28-87, Cl. 364-786.000.
Mlynko, Walter E.. *See*—
Egitto, Frank D.; Emmi, Francis; Mlynko, Walter E.; and Susko, Robin A., 4,654,115, Cl. 156-643.000.
MM Systems Corporation: *See*—
Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., 4,674,252, Cl. 52-396.000.
Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., 4,708,517, Cl. 404-64.000.
Petree, Larry M.; Attaway, Julian J.; and Driggers, Randolph W., 4,649,684, Cl. 52-395.000.
Mo, Frank S. C., to Censtor Corp. Recording head slider assembly. 4,636,894, 1-13-87, Cl. 360-103.000.
Mo och Domsjo Aktiebolag. *See*—
Ahlstrand, Ove, 4,706,340, Cl. 19-296.000.
Careborg, Bengt R., 4,640,282, Cl. 128-360.000.
Lundmark, Einar, 4,675,068, Cl. 156-495.000.
Thorsell, Leif U. F.; and Nilsson, Nils O., 4,670,098, Cl. 162-29.000.
Moak, Ross D. Sod cutting apparatus. 4,660,650, 4-28-87, Cl. 172-21.000.
Moake, Gordon L.; and Milewits, Marvin, to PA Incorporated. Method and apparatus for measuring velocity of ferromagnetic tubing. 4,698,590, 10-6-87, Cl. 324-160.000.
Moake, Gordon L.; and Bradfield, James E., to PA Incorporated. Method and apparatus for measuring the depth of local defects in ferromagnetic elements. 4,704,580, 11-3-87, Cl. 324-242.000.
Moake, Gordon L.. *See*—
Bradfield, James E.; Kahil, John E.; Jaynes, Mark S.; Moake, Gordon L.; Milewits, Marvin; Bolton, Curtis W., III; Lam, Clive C.; and Stanley, Roderic K., 4,710,712, Cl. 324-227.000.
Moakes, David P. Tubular connection. 4,645,177, 2-24-87, Cl. 251-144.000.
Moal, Herve. *See*—
Doittau, Pierre O.; and Moal, Herve, 4,710,645, Cl. 307-115.000.
Moasser, Manoutchehr. Method for treating herpes lesions and other infectious skin conditions. 4,646,725, 3-3-87, Cl. 128-24.00A.
MOBA-Electronic Gesellschaft fur Mobil-Automation mbH. *See*—
Sehr, Willibald, 4,693,598, Cl. 356-4.000.
Mobay Corporation: *See*—
Anderson, John; Homeyer, Berahard; Kuhle, Engelbert; Scheinpflug, Hans; Zeck, Walter M.; and Simonet, Donald E., 4,656,163, Cl. 514-84.000.
Chung, James Y. J.; and Neuray, Dieter, 4,677,148, Cl. 524-298.000.
Grigo, Ulrich R.; Lazear, Nelson R.; and Witman, Mark W., 4,677,162, Cl. 525-67.000.
Jackman, Dennis E., 4,642,285, Cl. 568-393.000.
Jackman, Dennis E.; Westphal, Dietmar B.; and Schmidt, Thomas, 4,659,819, Cl. 544-182.000.
Krishnan, Sivaram; Price, Ronald L.; and White, Roger J., 4,650,823, Cl. 524-431.000.
Krishnan, Sivaram; and Grigo, Ulrich R., 4,673,699, Cl. 524-94.000.
Markusch, Peter H.; Rosthauser, James W.; and Tirpak, Robin E., 4,701,480, Cl. 523-340.000.
Sandefur, Charles W.; and Thomas, Thomas J., 4,673,410, Cl. 8-528.000.
Schmidt, Manfred; and Yeater, Robert P., 4,690,964, Cl. 524-125.000.
Schmitt, Peter D.; and Markusch, Peter H., 4,677,180, Cl. 528-45.000.
Shafer, Jimmie G., 4,698,362, Cl. 514-490.000.
Zeck, Walter M.; and Simonet, Donald E., 4,690,947, Cl. 514-521.000.
Mobberley, Laura P.; Smith, Ernest L.; and MacEwen, George E. Tamper evident container. 4,643,329, 2-17-87, Cl. 220-257.000.
Mobbs, Christopher I.; and Rhodes, J. David, to Filtronic Components Limited. Temperature compensated capacitor. 4,636,913, 1-13-87, Cl. 361-182.000.
Moberg, Gregory O., to Eastman Kodak Company. Capacitive load driver circuit. 4,684,824, 8-4-87, Cl. 307-270.000.
Moberg, Hans. *See*—
Inge, Claes; Lagerstedt, Torgny; Borgstroem, Leonard; Carlsson, Claes-Goeran; Naebo, Sven-Olof; Moberg, Hans; and Franzen, Peter, 4,701,158, Cl. 494-74.000.
Moberg, Lennart, to Siemens Aktiengesellschaft. Battery test circuit for a heart pacemaker. 4,686,990, 8-18-87, Cl. 128-419.0PT.
Moberg, Lennart, to Siemens Aktiengesellschaft. Battery test circuit for a heart pacemaker. 4,715,381, 12-29-87, Cl. 128-419.0PT.
Mobil Oil Corporation. *See*—
Abdo, Milton K.; and Jennings, Alfred R., Jr., 4,679,629, Cl. 166-281.000.
Adams, Priscilla L.; and Farcasiu, Malvina, 4,642,176, Cl. 208-111.000.
Allen, Linus S.; Mills, William R., Jr.; and Stromswold, David C., 4,692,617, Cl. 250-270.000.
Altman, Lawrence J.; and Milliken, James B., 4,700,502, Cl. 73-64.000.

Andress, Harry J., Jr.; and Ashjian, Henry, 4,652,387, Cl. 252-49.600.
Andress, Harry J., Jr.; and Ashjian, Henry, 4,698,169, Cl. 252-49.600.
Angevine, Philip J.; and Oleck, Stephen M., 4,683,214, Cl. 502-66.000.
Angevine, Philip J.; Chu, Yung F.; Mitchell, Kenneth M.; Oleck, Stephen M.; Shih, Stuart S.; and Wilson, Robert C., Jr., deceased, 4,696,732, Cl. 208-111.000.
Angona, Frank A.; and Zemanek, Joseph, Jr., 4,649,525, Cl. 367-31.000.
Ashcraft, Charles R.; and Kerr, Michael L., 4,650,721, Cl. 428-516.000.
Audeh, Costandi A., 4,640,692, Cl. 44-1.0SR.
Audeh, Costandi A., 4,647,287, Cl. 23-293.00S.
Avidan, Amos A.; Krambeck, Frederick J.; and Tabak, Samuel A., 4,684,757, Cl. 585-331.000.
Axelrod, Joan C.; and Chibnik, Sheldon, 4,639,256, Cl. 44-71.000.
Axelrod, Joan C.; and Chibnik, Sheldon, 4,657,562, Cl. 44-71.000.
Bahl, Surinder K.; Canterino, Peter J.; and Shaw, Richard G., 4,692,496, Cl. 525-240.000.
Balloni, Ricardo; Donovan, Kevin M.; and Keung, Jay K., 4,659,612, Cl. 428-213.000.
Baugh, Benton F.; and Panicker, Narayana N., 4,647,254, Cl. 405-169.000.
Baugh, Benton F.; and Panicker, Narayana N., 4,661,016, Cl. 405-169.000.
Baugh, Benton F.; and Panicker, Narayana N., 4,673,313, Cl. 405-195.000.
Baugh, Benton F.; and Panicker, Narayana N., 4,693,498, Cl. 285-39.000.
Bell, Weldon K.; Haag, Werner O.; Kirker, Garry W.; and Klocke, Donald J., 4,686,313, Cl. 585-327.000.
Bell, Weldon K.; and Haag, Werner O., 4,714,787, Cl. 568 697.000.
Benoit, Gordon L., 4,652,253, Cl. 493-195.000.
Benoit, Gordon L., 4,655,737, Cl. 493-194.000.
Benoit, Gordon L.; and Boyd, Dana M., 4,681,721, Cl. 264-169.000.
Blair, Ronald B., 4,715,018, Cl. 367-19.000.
Borghard, William S.; Huang, Tracy J.; McCullen, Sharon B.; Schoennagel, Hans J.; Tsao, Ying-Yen P.; and Wong, Stephen S., 4,657,874, Cl. 502-35.000.
Bowman, Donald E., 4,709,485, Cl. 33-228.000.
Boyd, Dana M.; Colombo, Edward A.; and Lashway, William H., 4,657,811, Cl. 428-318.600.
Buckles, John J., 4,706,750, Cl. 166-271.000.
Bulow, Roland E., 4,639,228, Cl. 441-5.000.
Buyan, Frank M.; and Ross, Mark S., 4,650,566, Cl. 208-153.000.
Buyan, Frank M.; and Ross, Mark S., 4,714,541, Cl. 208-161.000.
Caesar, Philip D., 4,692,423, Cl. 502-62.000.
Calvert, Robert B.; Chang, Clarence D.; Rubin, Mae K.; and Valyocsik, Ernest W., 4,642,226, Cl. 423-328.000.
Canterino, Peter J.; Dobreski, David V.; and Shaw, Richard G., 4,716,201, Cl. 525-240.000.
Chang, Clarence D.; and Miale, Joseph N., 4,638,105, Cl. 585-481.000.
Chang, Clarence D.; and Miale, Joseph N., 4,645,864, Cl. 585-408.000.
Chang, Clarence D.; and Perkins, Patrick D., 4,654,449, Cl. 570-261.000.
Chang, Clarence D.; and Miale, Joseph N., 4,665,248, Cl. 585-408.000.
Chang, Clarence D.; and Miale, Joseph N., 4,665,255, Cl. 585-467.000.
Chang, Clarence D.; Chu, Cynthia T. W.; and Miale, Joseph N., 4,670,412, Cl. 502-77.000.
Chang, Clarence D.; Penick, Joe E.; and Socha, Richard F., 4,678,645, Cl. 422-190.000.
Chang, Clarence D.; and Miale, Joseph N., 4,678,763, Cl. 502-26.000.
Chang, Clarence D.; and Weisz, Paul B., 4,701,313, Cl. 423-277.000.
Chang, Clarence D.; and Miale, Joseph N., 4,711,970, Cl. 585-415.000.
Chen, Catherine S. H., 4,658,079, Cl. 585-517.000.
Chen, Catherine S. H., 4,716,135, Cl. 502-62.000.
Chen, Nai Y.; and Pelrine, Bruce P., 4,668,377, Cl. 208-111.000.
Chen, Nai Y.; and Huang, Tracy J., 4,672,049, Cl. 502-66.000.
Chen, Nai Y.; and Miale, Joseph N., 4,690,903, Cl. 435-161.000.
Chen, Nai Y.; Degnan, Thomas F., Jr.; Leiby, Susan M.; Oleck, Stephen M.; and Pelrine, Bruce P., 4,711,710, Cl. 208-111.000.
Cheruvu, Subrahmanyam, 4,705,623, Cl. 209-161.000.
Chester, Arthur W.; and Chu, Yung F., 4,663,492, Cl. 585-408.000.
Chew, Ju-Nam, 4,635,720, Cl. 166-245.000.
Chibnik, Sheldon, 4,675,027, Cl. 44-57.000.
Chou, Tai-Sheng, 4,640,763, Cl. 208-78.000.
Chu, Chin-Chiun, 4,665,251, Cl. 585-415.000.
Chu, Cynthia T. W.; and Valyocsik, Ernest W., 4,665,250, Cl. 585-415.000.
Chu, Cynthia T-W; and Chang, Clarence D., 4,696,807, Cl. 423-305.000.
Chu, Pochen; and LaPierre, Rene B., 4,650,655, Cl. 423-328.000.
Chu, Pochen; and Kuehl, Guenter H., 4,665,043, Cl. 502-71.000.
Chu, Pochen; and Garwood, William E., 4,665,253, Cl. 585-467.000.
Chu, Pochen; and Garwood, William E., 4,665,265, Cl. 585-533.000.
Chu, Pochen; and Garwood, William E., 4,665,266, Cl. 585-640.000.
Chu, Yung-Feng; and Chester, Arthur W., 4,686,31[illegible], Cl. 585-315.000.
Chu, Yung-Feng; and Vartuli, James C., 4,694,114, Cl. 585-4[illegible]
Chung, Harold S.; Sampath, Krishnaswamy; and Schwab, [illegible] ick C., 4,653,585, Cl. 166-275.000.
Chung, Harold S.; Jennings, Alfred R., Jr.; and Strom, Edv[illegible] 4,702,316, Cl. 166-272.000.
Chung, Harold S.; Jennings, Alfred R., Jr.; and Strom, Edv[illegible] 4,702,318, Cl. 166-274.000.
Clarke, Aubrey R.; Martin, Colin L.; and Bowering, Rob[illegible] 4,692,350, Cl. 427-138.000.
Cook, John E.; Hagerty, Robert O.; and Jacob, Frederu[illegible] 4,666,999, Cl. 526-84.000.
Cook, John E.; Giacobbe, Thomas J.; and Hagerty, Rob[illegible] 4,675,369, Cl. 526-129.000.
Cullick, Alvin S., 4,672,840, Cl. 73-38.000.
Dabkowski, Michael J.; and Malladi, Madhava, 4,661,24[illegible] 208-131.000.
Dahan, Paul C., 4,678,446, Cl. 441-80.000.
Darilek, Glenn T., 4,652,876, Cl. 340-853.000.
Darilek, Glenn T., 4,695,840, Cl. 340-825.054.
Davis, Benjamin L.; Dixon, Joseph M.; and Page, Nichol[illegible] 4,714,629, Cl. 427-138.000.
Degnan, Thomas F., Jr.; and Chen, Nai Y., 4,649,12[illegible] 502-33.000.
Degnan, Thomas F., Jr.; and Landolt, George R., 4,683,0[illegible] 208-111.000.
Dellinger, J. A.; Goins, Neal R.; and Reilly, Theresa A., 4,6[illegible] Cl. 367-75.000.
Dellinger, Thomas B., 4,643,264, Cl. 175-61.000.
Dellinger, Thomas B., 4,646,855, Cl. 175-61.000.
Dellinger, Thomas B., 4,697,651, Cl. 175-61.000.
Dennis, Charles L., 4,704,708, Cl. 367-25.000.
Derouane, E. G.; Dessau, R. M.; Heilweil, I. J.; and Kerr, [illegible] 4,695,642, Cl. 556-14.000.
Derouane, Eric G.; and von Ballmoos, Roland, 4,639,35[illegible] 423-306.000.
Derouane, Eric G.; and von Ballmoos, Roland, 4,639,35[illegible] 423-306.000.
Derouane, Eric G.; and von Ballmoos, Roland, 4,647,44[illegible] 423-306.000.
Derouane, Eric G.; and Powell, Ralph A., 4,652,68[illegible] 568-438.000.
Derouane, Eric G.; Valyocsik, Ernest W.; and von Bal[illegible] Roland, 4,654,138, Cl. 208-114.000.
Derouane, Eric G.; and von Ballmoos, Roland, 4,664,89[illegible] 423-306.000.
Derouane, Eric G.; and von Ballmoos, Roland, 4,673,55[illegible] 423-306.000.
Derouane, Eric G.; and Ballmoos, Roland V., 4,713,22[illegible] 423-705.000.
Derr, W. Rodman, Jr.; Garwood, William E.; Kuo, James C.; Tiberiu M.; Nace, Donald M.; and Tabak, Samuel A., 4,6[illegible] Cl. 585-330.000.
Dessau, Ralph M.; and Kerr, George T., 4,642,407, Cl. 585-6[illegible]
Dessau, Ralph M.; and Olson, David H., 4,650,917, Cl. 585-3[illegible]
Dessau, Ralph M., 4,652,360, Cl. 208-138.000.
Dessau, Ralph M., 4,658,045, Cl. 549-506.000.
Dessau, Ralph M.; and Kerr, George T., 4,658,075, Cl. 585-4[illegible]
Dessau, Ralph M., 4,665,247, Cl. 585-361.000.
Dessau, Ralph M., 4,666,874, Cl. 502-62.000.
Dessau, Ralph M., 4,699,708, Cl. 208-111.000.
Dessau, Ralph M., 4,704,495, Cl. 585-481.000.
Dickert, Joseph J., Jr.; and Heilweil, Israel J., 4,655,94[illegible] 252-8.500.
Dixon, James R., Jr., 4,649,483, Cl. 364-422.000.
Dolan, Michael J.; Hilbert, Timothy L.; and Snyder, Jol[illegible] 4,678,483, Cl. 55-97.000.
Doner, John P.; Horodysky, Andrew G.; and Keller, John [illegible] 4,655,948, Cl. 252-49.600.
Doyen, Rene H., 4,654,252, Cl. 428-213.000.
Driscoll, Patrick R.; and Kremer, Ross A., 4,714,60[illegible] 423-319.000.
Duncan, Gary L., 4,701,369, Cl. 428-313.900.
Duncan, Gary L., 4,702,954, Cl. 428-213.000.
Duncan, Gary L.; and Hasenauer, Randal J., 4,704,32[illegible] 428-286.000.
Dwyer, Francis G.; and Klocke, Donald J., 4,650,65[illegible] 423-329.000.
Ehlers, D. M.; and Hopkins, Daniel N., 4,712,616, Cl. 166-2[illegible]
Farng, Liehpao O.; and Horodysky, Andrew G., 4,715,9[illegible] 252-46.400.
Fischer, Ronald H.; Huang, Yun-Yang; LaPierre, Rene B.; Varghese, Philip, 4,676,887, Cl. 208-61.000.
Foster, Robert K.; and Tait, Gerald W., 4,665,510, Cl. 367-[illegible]
Frangatos, Gerassimo; and Davis, Robert H., 4,661,27[illegible] 252-47.000.
Frilette, Vincent J., 4,654,082, Cl. 106-30.000.
Furtek, Allan B., 4,670,413, Cl. 502-120.000.
Gavin, James R.; and Phillips, Nicholas, 4,645,108, Cl. 225-1[illegible]
Ginsburg, Merrill S., 4,636,955, Cl. 364-420.000.
Givens, Wyatt W.; and Bowden, Edgar A., 4,686,47[illegible] 324-366.000.
Givens, Wyatt W., 4,714,881, Cl. 324-303.000.

Goldstein, Theodore P., 4,650,779, Cl. 502-38.000.
Gould, Ronald M.; and Tabak, Samuel A., 4,689,205, Cl. 422-142.000.
Graven, Richard G.; and Zahner, John C., 4,681,674, Cl. 208-59.000.
Graziani, Kenneth R.; and Kyan, Chwan P., 4,648,957, Cl. 208-58.000.
Graziani, Kenneth R.; Kyan, Chwan P.; Shih, Stuart S.; and Sowiak, Raymond M., 4,695,364, Cl. 208-59.000.
Green, Gary J.; McVeigh, Harry A.; Penick, Joe E.; and Yan, Tsoung Y., 4,640,675, Cl. 431-2.000.
Green, Gary J.; McVeigh, Harry A.; Penick, Joe E.; and Yan, Tsoung Y., 4,643,666, Cl. 431-4.000.
Green, Gary J.; and Yan, Tsoung-Y., 4,672,143, Cl. 585-540.000.
Green, Gary J., 4,672,144, Cl. 585-540.000.
Gross, Jonathan; and Marten, O. James, 4,711,623, Cl. 425-376.00A.
Grosser, Richard W.; and Jensen, Jay E., 4,677,567, Cl. 364-502.000.
Grosz, Edward G.; and Herrington, Fox J., 4,693,152, Cl. 83-24.000.
Gunesin, Binnur Z.; and Kawczak, Alex W., 4,689,367, Cl. 525-240.000.
Gunesin, Binnur Z., 4,692,492, Cl. 524-731.000.
Haddad, James H.; Owen, Hartley; and Schatz, Klaus W., 4,654,060, Cl. 55-424.000.
Hagerty, Robert O.; Petsche, Irena B.; and Schurzky, Kenneth G., 4,634,752, Cl. 526-129.000.
Hagerty, Robert O., 4,666,998, Cl. 526-68.000.
Hall, Arthur C.; Schultz, E. Frank; and Wiener, Ludwig D., 4,687,523, Cl. 134-30.000.
Harandi, Mohsen N., 4,664,784, Cl. 208-354.000.
Harandi, Mohsen N.; Owen, Hartley; and Smyth, Sean C., 4,709,113, Cl. 585-640.000.
Harandi, Mohsen N., 4,714,524, Cl. 196-98.000.
Hartman, Kathy J.; and Shu, Winston R., 4,678,036, Cl. 166-273.000.
Heaney, William F.; and Nitsch, Albert R., 4,670,133, Cl. 208-131.000.
Heilweil, Israel J.; and Yan, Tsoung Y., 4,652,375, Cl. 210-642.000.
Herrington, Fox J., 4,640,640, Cl. 403-57.000.
Herrington, Fox J., 4,650,451, Cl. 493-190.000.
Herrington, Fox J., 4,654,021, Cl. 493-211.000.
Herrington, Fox J., 4,654,180, Cl. 264-288.800.
Herrington, Fox J., 4,656,900, Cl. 83-24.000.
Herrington, Fox J., 4,666,423, Cl. 493-394.000.
Herrington, Fox J., 4,684,359, Cl. 493-211.000.
Herrington, Fox J., 4,708,617, Cl. 425-135.000.
Herrington, Fox J., 4,714,454, Cl. 493-193.000.
Herrington, Fox J., 4,714,455, Cl. 493-225.000.
Hicks, Michael S.; and Vannauker, David L., 4,678,556, Cl. 208-96.000.
Holmes, Billy G., 4,651,826, Cl. 166-251.000.
Hopkins, Daniel N., 4,711,131, Cl. 73-799.000.
Horodysky, Andrew G.; and Law, Derek A., 4,654,156, Cl. 252-47.000.
Horodysky, Andrew G., 4,657,684, Cl. 252-32.500.
Horodysky, Andrew G.; and Ashjian, Henry, 4,661,271, Cl. 252-32.500.
Horodysky, Andrew G.; and Law, Derek A., 4,661,274, Cl. 252-47.000.
Horodysky, Andrew G., 4,681,692, Cl. 252-32.500.
Horodysky, Andrew G., 4,686,055, Cl. 252-32.70E.
Horodysky, Andrew G., 4,692,257, Cl. 252-49.600.
Horodysky, Andrew G.; and Landis, Phillip S., 4,704,218, Cl. 252-46.600.
Horodysky, Andrew G.; and Law, Derek A., 4,711,736, Cl. 252-47.500.
Hoskin, Dennis H.; and Rollmann, Louis D., 4,660,640, Cl. 166-270.000.
Huggard, Mark T., 4,710,522, Cl. 521-138.000.
Ingersoll, Roger W., 4,693,632, Cl. 405-18.000.
Jennings, Alfred R.; Muegge, Ernest L.; and Wilson, Peggy M., 4,671,360, Cl. 166-312.000.
Jennings, Alfred R., Jr., 4,664,191, Cl. 166-276.000.
Jennings, Alfred R., Jr.; and Strubhar, Malcolm K., 4,669,546, Cl. 166-308.000.
Jennings, Alfred R., Jr., and Strubhar, Malcolm K., 4,703,799, Cl. 166-276.000.
Jennings, Alfred R., Jr., 4,708,206, Cl. 166-281.000.
Jennings, Alfred R., Jr., 4,711,302, Cl. 166-250.000.
Jones, Lloyd G., 4,640,357, Cl. 166-273.000.
Jones, Lloyd G.; and Stowe, Lawrence R., 4,694,727, Cl. 86-20.150.
Jones, Lloyd G., 4,714,114, Cl. 166-280.000.
Jorgensen, Diane V.; Kennedy, Clinton R.; and Wong, Stephen S., 4,714,537, Cl. 208-111.000.
Kadash, Marjory A.; and Schwab, Frederick C., 4,714,658, Cl. 428-523.000.
Kam, Anthony Y.; Kuo, James C.; Le, Quang N.; and Smith, Jonah, 4,647,369, Cl. 208-111.000.
Keung, Jay K.; Donovan, Kevin M.; and Balloni, Ricardo, 4,692,379, Cl. 428-349.000.
Kokotailo, George T., and Rohrman, Albert C., Jr., 4,703,025, Cl. 502-60.000.
Krambeck, Frederick J.; McGovern, Stephen J.; and Sauer, John E., 4,640,463, Cl. 239-424.000.
Krambeck, Frederick J.; Lam, Chiu T.; and Schipper, Paul H., 4,645,589, Cl. 208-251.00R.
Krishnamurthy, Sowmithri; Le, Quang N.; and Wong, Stephen S., 4,650,780, Cl. 502-50.000.
Krutchen, Charles M.; and Wu, Wen-Pao, 4,665,105, Cl. 521-180.000.
Kuehl, Guenter H., 4,661,467, Cl. 502-202.000.
Kwack, Tae H.; and Su, Tien-Kuei, 4,705,829, Cl. 525-240.000.
Le, Quang N.; Tsao, Ying-Yen P.; and Wong, Stephen S., 4,678,764, Cl. 502-26.000.
Lee, Carol S., 4,652,690, Cl. 585-443.000.
Lee, Carol S.; and Stead, George E., 4,665,268, Cl. 585-640.000.
Liu, Leland L., 4,681,803, Cl. 428-348.000.
Liu, Leland L.; and Touhsaent, Robert E., 4,695,503, Cl. 428-207.000.
Lo, Frederick Y.; Nowlin, Thomas E.; and Wu, Margaret M., 4,668,650, Cl. 502-111.000.
Lo, Frederick Y.; Nowlin, Thomas E.; and Wu, Margaret M., 4,677,087, Cl. 502-104.000.
Louie, Yuk-Mui; and Zrinscak, Fred S., 4,663,026, Cl. 208-262.000.
Lumley, Edward M.; and Bowman, Bonita F., 4,636,993, Cl. 367-65.000.
Lyle, W. D., Jr.; and Williams, Donald M., 4,677,596, Cl. 367-46.000.
Mao, Cheng-How; and Schreiner, Max, Jr., 4,665,249, Cl. 585-408.000.
McCullen, Sharon B.; Wong, Stephen S.; and Huang, Tracy J., 4,645,751, Cl. 502-37.000.
McGuiness, Mary P.; Mitchell, Kenneth M.; and Ware, Robert A., 4,647,368, Cl. 208-60.000.
Mears, William G., 4,679,581, Cl. 137-43.000.
Medlin, William L.; and Zumwalt, Gary L., 4,715,019, Cl. 367-31.000.
Mitchell, Thomas O., 4,676,316, Cl. 166-274.000.
Mitchell, Thomas O., 4,698,149, Cl. 208-428.000.
Morris, Kenneth L., 4,658,386, Cl. 367-139.000.
Morris, Kenneth L., 4,665,580, Cl. 15-118.000.
Morrison, Roger A., 4,686,316, Cl. 585-708.000.
Myers, Donald W.; and O'Brien, Dennis, 4,657,715, Cl. 264-45.500.
Neeley, Walter P., 4,641,287, Cl. 367-19.000.
Neeley, Walter P., 4,692,906, Cl. 367-15.000.
Nemet-Mavrodin, Margaret, 4,704,492, Cl. 585-259.000.
Ngoc Le, Quang; McCarthy, Stephen J.; and Mitchell, Kenneth M., 4,689,312, Cl. 502-38.000.
Nowlin, Thomas E., 4,672,096, Cl. 526-116.000.
Odeh, Aziz S., 4,638,447, Cl. 364-556.000.
Oksuzler, Yalcin, 4,690,586, Cl. 405-209.000.
Osborn, Paul V., 4,682,447, Cl. 52-3.000.
Otto, Bernard, 4,715,023, Cl. 367-144.000.
Owen, Hartley; Tabak, Samuel A.; and Wright, Bernard S., 4,634,798, Cl. 585-331.000.
Owen, Hartley; and Zahner, John C., 4,675,461, Cl. 585-330.000.
Owen, Hartley; and Haddad, James H., 4,687,497, Cl. 55-349.000.
Owen, Hartley; and Schatz, Klaus W., 4,689,206, Cl. 422-144.000.
Page, Ronald D., 4,640,552, Cl. 299-24.000.
Park, Hee C. P., 4,701,370, Cl. 428-314.400.
Paul, James M.; and Strom, Edwin T., 4,658,898, Cl. 166-270.000.
Penick, Joe E., 4,705,621, Cl. 208-146.000.
Pennison, Harold P., 4,681,158, Cl. 166-77.500.
Phelps, Craig H.; and Sampath, Krishnaswamy, 4,667,741, Cl. 166-274.000.
Piotrowski, Alfred B.; and Herd, Richard S., 4,661,277, Cl. 252-51.50A.
Pistner, Timothy W., 4,699,608, Cl. 493-204.000.
Prader, Randolph D., 4,665,680, Cl. 53-411.000.
Quann, Richard J., 4,665,245, Cl. 585-316.000.
Quann, Richard J.; and Tabak, Samuel A., 4,686,317, Cl. 585-860.000.
Ranganayaki, Rambabu P., 4,686,476, Cl. 324-350.000.
Rodewald, Paul G.; and Valyocsik, Ernest W., 4,665,264, Cl. 585-533.000.
Rodewald, Paul G., 4,683,051, Cl. 208-111.000.
Rodewald, Paul G., 4,709,110, Cl. 585-463.000.
Rodewald, Paul G.; and Valyocsik, Ernest W., 4,709,114, Cl. 585-640.000.
Rosinski, Edward J., 4,678,766, Cl. 502-85.000.
Rubin, Mae K., 4,636,373, Cl. 423-328.000.
Rubin, Mae K., 4,640,829, Cl. 423-328.000.
Rudnick, Leslie R., 4,642,175, Cl. 208-88.000.
Sampath, Krishnaswamy, 4,640,358, Cl. 166-274.000.
Sampath, Krishnaswamy, 4,647,312, Cl. 106-208.000.
Schatz, Klaus W., 4,711,712, Cl. 208-153.000.
Schmitt, Kirk D., 4,665,196, Cl. 548-570.000.
Schoepf, Victor L., 4,666,338, Cl. 405-191.000.
Shah, Ashwin N.; and DeMay, Roland, 4,705,471, Cl. 425-195.000.
Sharps, Gordon V., Jr.; and Su, Tien-Kuei, 4,673,711, Cl. 525-240.000.
Sharps, Gordon V., Jr., 4,683,094, Cl. 264-38.000.
Shihabi, David S., 4,642,404, Cl. 585-415.000.
Shu, Paul, 4,678,032, Cl. 166-295.000.
Silvey, Frank C., 4,698,138, Cl. 203-91.000.
Snavely, Earl S., Jr.; and Jones, Timothy A., 4,649,032, Cl. 423-226.000.
Sommer, Sheldon E., 4,647,198, Cl. 356-243.000.
Sprunt, Eve S.; Humphreys, Neil V.; Muegge, Ernest L.; and Dixon, James R., Jr., 4,688,238, Cl. 378-4.000.

Stowe, Lawrence R.; and Strubhar, Malcolm K., 4,685,519, Cl. 166-278.000.
Su, Tien-Kuei, 4,713,205, Cl. 264-176.100.
Szostak, Rosemarie, 4,637,923, Cl. 423-328.000.
Tabak, Samuel A., 4,654,453, Cl. 585-303.000.
Tabak, Samuel A., 4,658,073, Cl. 585-314.000.
Tsao, Ying-Yen P., 4,696,733, Cl. 208-144.000.
Uhri, Duane C., 4,638,254, Cl. 324-323.000.
Uhri, Duane C., 4,687,061, Cl. 166-308.000.
Uhri, Duane C., 4,714,115, Cl. 166-308.000.
Valyocsik, Ernest W., 4,639,360, Cl. 423-329.000.
Valyocsik, Ernest W., 4,657,662, Cl. 208-111.000.
Valyocsik, Ernest W., 4,670,615, Cl. 585-467.000.
Valyocsik, Ernest W., 4,698,217, Cl. 423-328.00C.
Varghese, Philip; and Whitehurst, Darrell D., 4,659,454, Cl. 208-111.000.
Venkatesan, Valad, 4,669,542, Cl. 166-258.000.
Wallace, James P., 4,642,460, Cl. 250-256.000.
Weisz, Paul B.; and Yan, Tsoung Y., 4,716,136, Cl. 502-64.000.
Willis, Mark E., 4,683,556, Cl. 367-27.000.
Willis, Mark E., 4,683,557, Cl. 367-57.000.
Yale, David P., 4,713,968, Cl. 73-594.000.
Yan, Tsoung Y., 4,642,196, Cl. 252-88.000.
Yan, Tsoung Y., 4,650,495, Cl. 44-1.00G.
Yan, Tsoung Y., 4,701,212, Cl. 75-26.000.
Yan, Tsoung Y., 4,705,534, Cl. 44-57.000.
Yan, Tsoung Y., 4,705,909, Cl. 585-828.000.
Yan, Tsoung Y., 4,709,118, Cl. 585-820.000.
Zachariadis, Robert G., 4,644,508, Cl. 367-24.000.
Zemanek, Joseph, Jr., 4,674,067, Cl. 367-25.000.

Mobil Solar Energy Corporation: *See*—
Gregory, James A., 4,650,695, Cl. 427-38.000.
Gregory, James A.; Hanoka, Jack I.; and Vayman, Zinovy Y., 4,691,077, Cl. 136-256.000.
Sink, Nicholas C.; and Rogers, Myer, 4,661,324, Cl. 422-246.000.
Stormont, Richard W.; and Eriss, Lawrence, 4,647,437, Cl. 422-246.000.
Stormont, Richard W.; and Eriss, Lawrence, 4,711,695, Cl. 156-608.000.

Mobile Oil Corporation: *See*—
Shu, Paul; and Wszolek, Marie, 4,676,930, Cl. 252-315.300.

Mobilio, Dominick; Demerson, Christopher A.; and Humber, Leslie G., to American Home Products Corporation. Substituted 2,3,4,9-tetrahydro-1H-carbazole-1-acetic acid 4,687,860, 8-18-87, Cl. 548-439.000.

Mobilio, Dominick; Demerson, Christopher A.; and Humber, Leslie G., to American Home Products Corporation. Process for preparing substituted 2,3,4,9-tetrahydro-1H-carbazole-1-acetic acid. 4,701,533, 10-20-87, Cl. 548-439.000.

Mobilio, Dominick; Demerson, Christopher A.; and Humber, Leslie G., to American Home Products Corp. Production of substituted 2,3,4,9-tetrahydro-1H-carbazole-1-acetic acid derivatives. 4,709,048, 11-24-87, Cl. 548-439.000.

Mobilio, Dominick: *See*—
Ferdinandi, Eckhardt S.; Mobilio, Dominick; Sabatucci, Joseph P., and Humber, Leslie G., 4,686,213, Cl. 514-161.000.

Mobin-Uddin, Kazi. Embolus trap. 4,643,184, 2-17-87, Cl. 128-303.00R.

Mobin-Uddin, Kazi. Blood vessel holding device and surgical method using same. 4,651,733, 3-24-87, Cl. 128-303.00R.

Mobior, Inc.: *See*—
Eastman, Winthrop A.; and Gale, John A., 4,633,814, Cl. 119-71.000.

Mobley, Carroll E.: *See*—
Rapp, Robert A.; and Mobley, Carroll E., 4,657,067, Cl. 165-1.000.

Mobley, David P.; and Fyvie, Thomas J., to General Electric Company. Process for continuous preparation of polyphenylene oxide in agitated reaction zones. 4,675,377, 6-23-87, Cl. 528-215.000.

Mobley, Dewey F.; Warren, Janice M.; Barbrick, August; and Eisenmann, Gregg A., to Interlock Corporation. Tab receptacle terminal having improved electrical and mechanical features. 4,713,026, 12-15-87, Cl. 439-845.000.

Mobley, Dewey F.; and Warren, Janice M., to Interlock Corporation. Pin and socket electrical terminal. 4,715,833, 12-29-87, Cl. 439-834.000.

Mobley, George A., to Milliken Research Corporation. Hole punch. 4,674,372, 6-23-87, Cl. 83-30.000.

Mobley, Joseph G.; and Womble, David P., to Scientific Atlanta, Inc. FM demodulator system with threshold extension. 4,698,598, 10-6-87, Cl. 329-134.000.

Mobley, Joseph G., II, to Scientific-Atlanta, Inc. Signal to noise ratio enhancement using baseband signals in an FM television system. 4,641,181, 2-3-87, Cl. 358-36.000.

Mobley, Larry W.; and Kelley, Don H., to Dow Chemical Company, The. Process for preparing polyurethane-backed textiles. 4,696,849, 9-29-87, Cl. 428-95.000.

Mobley, Lawrence R.; and Gregg, James S., to Samsonite Corperation. Locking trolley for garment bag with improved hanger retention. 4,640,414, 2-3-87, Cl. 206-287.000.

Mobley, Lawrence R.; Nordstrom, Mark B.; and Winter, Roger D., to Samsonite Corporation. Handle assembly. 4,713,860, 12-22-87, Cl. 16-111.00R.

Mobley, Richard M., to Varian Associates, Inc. Apparatus for scanning a high current ion beam with a constant angle of incidence. 4,661,712, 4-28-87, Cl. 250-492.200.

Mobley, Tommie; and Amerson, Leon. Vehicle towing dolly. 4,664,399, 5-12-87, Cl. 280-43.170.

Moccia, Michael T., to Atlantic Richfield Company. Preparation of soluble molybdenum catalysts for epoxidation of olefins. 4,661,463, 4-28-87, Cl. 502-24.000.

Mochida, Ei; Shinkai, Hiroyuki; Kudo, Takashi; and Sugawara, Toshiyuki, to Mochida Seiyaku Kabushiki Kaisha. Measuring reagent kit for determining an antigen, antibody or antigen-antibody complex. 4,690,908, 9-1-87, Cl. 436-518.000.

Mochida, Ei: *See*—
Nobuhara, Masahiro; Kanamori, Toshinori; Yamaguchi, Kiyoshi; and Mochida, Ei, 4,680,261, Cl. 435-68.000.

Mochida, Haruo, to Nissan Motor Co., Ltd. Push-pull cable arrangement for transmitting longitudinal motion. 4,633,724, 1-6-87, Cl. 74-471.00R.

Mochida, Haruo; and Namazue, Hirotoshi, to Nissan Motor Co., Ltd.; and Kokusan Kinzoku Kogyo Co., Ltd. Theft prevention system in an automotive keyless entry system with automatic door locking. 4,638,292, 1-20-87, Cl. 340-63.000.

Mochida, Haruo; Nakano, Kimichiro; Takeuchi, Mikio; and Hirano, Motoki, to Nissan Motor Company, Limited. Keyless entry system for automotive devices with compact, portable wireless code transmitter, and feature for preventing users from locking transmitter in vehicle. 4,672,375, 6-9-87, Cl. 340-825.310.

Mochida, Jiro: *See*—
Iida, Muneo; Simizu, Jyoseı; Suzuki, Masami; Okamoto, Nobuyuki; Kazama, Toshinori; Honda, Masanobu; Mochida, Jiro; Tada, Seiji; and Fuji, Masayuki, 4,660,110, Cl. 360-98.000.

Mochida, Kenichi; Ogasa, Takehiro; Shimada, Junichi; Hirata, Tadashi; Sato, Kiyoshi; and Okachi, Ryo, to Kyowa Hakko Kogyo Co., Ltd. 3-substituted carbacephem compounds having antibacterial effect. 4,640,919, 2-3-87, Cl. 514-241.000.

Mochida, Kenichi: *See*—
Hirata, Tadashi; Mochida, Kenichi; Shiraki, Chihiro; and Sato, Kiyoshi, 4,694,001, Cl. 514-210.000.

Mochida, Masaaki. *See*—
Fujiu, Takamitsu; Mochida, Masaaki; and Ogino, Makoto, 4,708,652, Cl. 433-201.100.

Mochida Pharmaceutical Co., Ltd.: *See*—
Nobuhara, Masahiro; Kanamori, Toshinori; Yamaguchi, Kiyoshi; and Mochida, Ei, 4,680,261, Cl. 435-68.000.

Mochida Seiyaku Kabushiki Kaisha: *See*—
Mochida, Ei; Shinkai, Hiroyuki; Kudo, Takashi; and Sugawara, Toshiyuki, 4,690,908, Cl. 436-518.000.

Mochida, Takaaki; Yamashita, Junichi; Yoshioka, Toshiro; and Ozawa, Michihiro, to Hitachi, Ltd.; and Hitachi Engineering Co., Ltd. Nuclear fuel assembly. 4,683,113, 7-28-87, Cl. 376-419.000.

Mochida, Takashi: *See*—
Nakamizo, Hiromitsu; and Mochida, Takashi, 4,695,795, Cl. 324-208.000.

Mochida, Tetsuo: *See*—
Kanno, Haruki; Tsuyoshi, Hidekazu; Nishinakagawa, Kou; Hara, Makoto; Mochida, Tetsuo; Hisaka, Tsugio; Miyaki, Munekazu; Kawarada, Minoru; and Kawarabayashi, Hideaki, 4,643,617, Cl. 405-222.000.

Mochida, Yasunori: *See*—
Nishizawa, Jun-ichi; Mochida, Yasunori; Nonaka, Terumoto; and Yoshida, Takashi, 4,700,213, Cl. 357-42.000.

Mochida, Yoshihiro; and Shirahama, Ichiro, to Orc Manufacturing Co., Ltd. Film thickness measuring apparatus employing intensity compensation device of spectral reflectivity. 4,666,305, 5-19-87, Cl. 356-381.000.

Mochida, Yoshihiro; Adachi, Nobuo; and Shirahama, Ichiro, to ORC Manufacturing Co., Ltd. Film thickness measuring apparatus employing microprojector of spectral reflection measurement. 4,673,294, 6-16-87, Cl. 356-381.000.

Mochiji, Kozo: *See*—
Matsuzawa, Toshiharu; and Mochiji, Kozo, 4,670,650, Cl. 250-307.000.
Soda, Yasunari; Mochiji, Kozo; Kimura, Takeshi; and Obayashyi, Hidehito, 4,701,940, Cl. 378-34.000.

Mochimaru, Hideaki; Shimada, Kazuyuki; and Hirasawa, Junichi, to Ricoh Company, Ltd. Optical recording head and belt positioning apparatus. 4,703,334, 10-27-87, Cl. 346-160.000.

Mochizuki, Akira: *See*—
Suzuki, Masami; Yamaguchi, Kouki; Katayama, Hisato; Muta, Tadayoshi; Okubo, Masakuni; Mochizuki, Akira; and Adachi, Hiroshi, 4,699,640, Cl. 55-385.00A.

Mochizuki, Asahi; Ozawa, Akira; Fujita, Shinichiro; and Yamada, Kuniaki, to Shinko Electric Co. Ltd.; and Japanese National Railways. System for detecting flat portion of peripheral surface of vehicle wheel. 4,696,446, 9-29-87, Cl. 246-169.00S.

Mochizuki, Diane Y.: *See*—
Urdal, David L.; March, Carl J.; Mochizuki, Diane Y.; and Conlon, Paul J., III, 4,658,018, Cl. 530-351.000.

Mochizuki, Fujiaki: *See*—
Toda, Fumio; Okamoto, Masaru; and Mochizuki, Fujiaki, 4,644,021, Cl. 523-122.000.

Mochizuki, Hideaki: *See*—
Ito, Akio; Mochizuki, Hideaki; Sunohara, Masaaki; and Tamura, Tooru, 4,701,770, Cl. 346-135.100.

Mochizuki, Hidenori: *See*—
Ide, Fumito; and Mochizuki, Hidenori, 4,639,114, Cl. 355-35.00H.

Mochizuki, Hirohiko: *See*—
Baba, Fumio; Mochizuki, Hirohiko; and Miyahara, Hatsuo, 4,653,027, Cl. 365-189.000.
Miyahara, Hatsuo; Baba, Fumio; and Mochizuki, Hirohiko, 4,672,372, Cl. 340-825.200.

Mochizuki, Hiromine: *See*—
Ando, Masatoshi; Mochizuki, Hiromine; and Saito, Kazuta, 4,639,270, Cl. 106-21.000.
Mochizuki, Hiroyuki; Kobayashi, Nobuo; Inuzuka, Yutaka; Aiba, Shigeo; and Nishi, Setsuo, to Toyota Jidosha Kabushiki Kaisha. Rack guide in rack-and-pinion type steering gear. 4,683,769, 8-4-87, Cl. 74-422.000.
Mochizuki, Hiroyuki: *See*—
Takeshita, Hajime; Iwase, Takahiro; Masuda, Naofumi; Sibata, Takuo; Mochizuki, Hiroyuki; Kobayashi, Nobuo; Kawakami, Seiho; and Kurowa, Yosio, 4,693,813, Cl. 409-244.000.
Mochizuki, Jyun: *See*—
Ninomiya, Hisakazu; Tomita, Hiroyuki; Mochizuki, Jyun; and Nakagawa, Kazuyuki, 4,656,401, Cl. 318-329.000.
Mochizuki, Kanji: *See*—
Sato, Atsushi; Murai, Yoshikazu; Yamaguchi, Tatsuo; Mochizuki, Kanji; and Sugisawa, Kunio, 4,692,270, Cl. 252-353.000.
Mochizuki, Ken: *See*—
Ando, Takehiro; Kimura, Hideo; Oda, Noriyuki; Asai, Takeji; Mochizuki, Ken; Fujihara, Toshihisa; and Maeda, Katsuji, 4,642,127, Cl. 55-20.000.
Mochizuki, Manabu; Ikeda, Itsuo; Kurotori, Tsuneo; Shinguryo, Satoshi; Miyakawa, Senchi; Kobayashi, Yuichi; Nonaka, Mitsuhiro; and Fukuda, Haruhiko, to Ricoh Company, Ltd. Developing device. 4,669,859, 6-2-87, Cl. 355-10.000.
Mochizuki, Manabu: *See*—
Ariyama, Kenzo; Kurotori, Tsuneo; and Mochizuki, Manabu, 4,640,605, Cl. 355-4.000.
Mochizuki, Masaaki: *See*—
Hirakata, Kaoru; Mochizuki, Masaaki; Kanai, Hideo; and Itai, Reiichi, 4,687,565, Cl. 204-258.000.
Mochizuki, Masanori. Torque transmitting coupling with obtuse screw edge angles. 4,645,473, 2-24-87, Cl. 464-79.000.
Mochizuki, Masatsugu; Umemura, Yoshihiro; Sakammoto, Izumi; and Takagi, Kunihiko, to Unitika Ltd. Antimicrobial latex composition. 4,675,347, 6-23-87, Cl. 523-122.000.
Mochizuki, Masatsugu; Jige, Masanobu; and Umemura, Yoshihiro, to Unitaka Ltd. Bladder control device. 4,696,672, 9-29-87, Cl. 604-128.000.
Mochizuki, Masfumi: *See*—
Kato, Shigeru; Osada, Naomi; Ichitoh, Tc Takatsu; Murata, Masae; and Mochizuki, Masfumi, 4,641,151, Cl. 346-76.0PH.
Mochizuki Motor Co. Ltd.: *See*—
Mochizuki, Otohiko; and Mochizuki, Susumu, 4,653,728, Cl. 254-131.000.
Mochizuki, Otohiko; and Mochizuki, Susumu, 4,662,607, Cl. 254-131.000.
Mochizuki, Nobumasa, to Mochizuki Precision Machine Industries Co., Ltd. Cutting apparatus. 4,691,871, 9-8-87, Cl. 241-166.000.
Mochizuki, Noritaka; Jin, Chikara; and Kaneko, Toshie, to Canon Kabushiki Kaisha. Reading optical system. 4,644,155, 2-17-87, Cl. 250-227.000.
Mochizuki, Otohiko; and Mochizuki, Susumu, to Mochizuki Motor Co. Ltd. Apparatus for operating and transferring manhole cover. 4,653,728, 3-31-87, Cl. 254-131.000.
Mochizuki, Otohiko; and Mochizuki, Susumu, to Mochizuki Motor Co. Ltd. Apparatus for operating manhole cover. 4,662,607, 5-5-87, Cl. 254-131.000.
Mochizuki Precision Machine Industries Co., Ltd.: *See*—
Mochizuki, Nobumasa, 4,691,871, Cl. 241-166.000.
Mochizuki, Seiji: *See*—
Yoshida, Hiroshi; Konishi, Kenji; Koike, Kengo; Nakagawa, Taizo; Shimano, Shizuo; and Mochizuki, Seiji, 4,690,934, Cl. 514-354.000.
Mochizuki, Susumu: *See*—
Mochizuki, Otohiko; and Mochizuki, Susumu, 4,653,728, Cl. 254-131.000.
Mochizuki, Otohiko; and Mochizuki, Susumu, 4,662,607, Cl. 254-131.000.
Mochizuki, Tadao; Nakajima, Akira; and Fukushima, Reizo, to Kabushiki Kaisha Kyoritsu Yuki Kogyo Kenkyusho. Unit type waste water treating apparatus. 4,696,740, 9-29-87, Cl. 210-151.000.
Mochizuki, Takashi: *See*—
Fukushima, Shoji; Kato, Motosaburo; Mochizuki, Takashi; and Wada, Yukio, 4,681,645, Cl. 156-73.100.
Mochizuki, Takeshi; Iwasawa, Katsumasa; Shiraishi, Ikuya; and Terafuji, Kazuki, to Iwata Air Compressor Mfg. Co., Ltd. Automatic spraying method. 4,714,635, 12-22-87, Cl. 427-421.000.
Mochizuki, Teiichi: *See*—
Fujiwara, Satoru; Mochizuki, Teiichi; Maeda, Kensaku; and Nagashima, Yutaka, 4,671,081, Cl. 62-469.000.
Maeda, Kensaku; Fujiwara, Satoru; Mochizuki, Teiichi; and Nagashima, Yutaka, 4,669,279, Cl. 62-505.000.
Maeda, Kensaku; Fujiwara, Satoru; and Mochizuki, Teiichi, 4,671,082, Cl. 62-515.000.
Maeda, Kensaku; and Mochizuki, Teiichi, 4,687,411, Cl. 415-122.00R.
Mochizuki, Tohru, to Kabushiki Kaisha Toshiba. Semiconductor memory cell. 4,716,548, 12-29-87, Cl. 365-149.000.
Mochizuki, Toshio: *See*—
Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, 4,637,711, Cl. 355-72.000.
Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, 4,694,748, Cl. 101-401.100.
Mochizuki, Yoshiharu; Goto, Sohei; Yagi, Toshihiko; Yamazaki, Katsumasa; and Michiue, Kenji, to Konishiroku Photo Industry Co., Ltd. Silver halide color photographic light sensitive material. 4,639,410, 1-27-87, Cl. 430-506.000.
Mochizuki, Yoshiharu: *See*—
Michiue, Kenji; Yagi, Toshihiko; Yamazaki, Katsumasa; Goto, Sohei; and Mochizuki, Yoshiharu, 4,670,375, Cl. 430-509.000.
Yagi, Toshihiko; Yamazaki, Katsumasa; Michiue, Kenji; Mochizuki, Yoshiharu; and Goto, Sohei, 4,686,176, Cl. 430-506.000.
Mochizuki, Yoshinori: *See*—
Fuji, Hiroshi; Iin, Tsukasa; Genba, Yasusi; Moriwaki, Hideaki; and Mochizuki, Yoshinori, 4,716,265, Cl. 200-144.00R.
Mock, Donald E., to Kirkhill Rubber Company. Enclosed conduit. 4,640,314, 2-3-87, Cl. 138-162.000.
Mock, Donald E., to Kirkhill Rubber Company. Reel cover. 4,645,076, 2-24-87, Cl. 206-400.000.
Mock, Elmar; and Muller, Jacques, to ETA S.A. Fabriques d'Ebauches. Plastic watch casing with plastic crystal and process for joining the crystal to the casing. 4,648,722, 3-10-87, Cl. 368-294.000.
Mock, Elmar; and Gabus, Georges A., to ETA S.A. Fabriques d'Ebauches. Timepiece having case formed of rock-like material. 4,692,033, 9-8-87, Cl. 368-280.000.
Mock, Elmar; and Hotz, Jean-Marie, to ETA S.A. Fabriques d'Ebauches. Fancy artefact band with annular decorative portion surrounding elongated core. 4,700,874, 10-20-87, Cl. 224-178.000.
Mock, Elmar; and Hotz, Jean-Marie, to ETA S.A. Fabriques d'Ebauches. Watch case element and wristlet assembly. 4,708,492, 11-24-87, Cl. 368-282.000.
Mock, Gerald L.: *See*—
Bond, Raymond G.; and Mock, Gerald L., 4,713,835, Cl. 379-79.000.
Pleska, John C.; and Mock, Gerald L., 4,689,813, Cl. 379-80.000.
Mock, Gunther: *See*—
Latza, Joachim; and Mock, Gunther, 4,711,193, Cl. 114-211.000.
Mock, Karlheinz: *See*—
Frauenfeld, Martin; Goldschmidt, Georg; Huber, Horst; and Mock, Karlheinz, 4,649,987, Cl. 165-5.000.
Mocker, Hans W., to Honeywell Inc. Rapid wavelength switching of IR lasers with Bragg cells. 4,707,835, 11-17-87, Cl. 372-20.000.
Mocker, Wolfgang: *See*—
Klug, Horst; Mocker, Wolfgang; Schaeffler, George; and Speil, Walter, 4,709,668, Cl. 123-90.550.
Mockler, Kenneth J.; Kittler, Richard C.; Warner, Glenn S.; and Hsu, Howard F., to Advanced Micro Devices, Inc. Anti-corrosion treatment for patterning of metallic layers. 4,668,335, 5-26-87, Cl. 156-643.000.
Mockli, Peter, to Ciba-Geigy Corporation. Cyanogenation of benzopyrones and naphthopyrones. 4,634,779, 1-6-87, Cl. 546-269.000.
Mockli, Peter: *See*—
Ramanathan, Visvanathan; and Mockli, Peter, 4,654,384, Cl. 534-604.000.
Mockovciak, John, Jr.: *See*—
Frank, Arthur M.; DeRespinis, Silvio F.; and Mockovciak, John, Jr., 4,637,447, Cl. 160-265.000.
Moczar, Elemer: *See*—
Robert, Ladislav; Hornebeck, William; and Moczar, Elemer, 4,665,053, Cl. 514-18.000.
Mod, William A.: *See*—
Ezzell, Bobby R.; Carl, William P.; and Mod, William A., 4,687,821, Cl. 526-247.000.
Moda, Edoardo: *See*—
Tabacco, Alessandro; Moda, Edoardo; and Tarli, Paolo, 4,703,015, Cl. 436-74.000.
Modarress, Dariush, to Spectron Development Laboratories, Inc. Fluid optical density (opacity) probe. 4,688,943, 8-25-87, Cl. 356-436.000.
Modarressi, Hamid: *See*—
Larson, Carl A.; Modarressi, Hamid; and Moore, John J., 4,660,194, Cl. 370-15.000.
Modecor Italiana S.p.A.: *See*—
Leolli, Franco, 4,690,289, Cl. 211-186.000.
Model & Instrument Development Corporation: *See*—
Poggi, Donald L.; Burgess, Ernest M.; Moeller, David E.; and Hittenberger, Drew A., 4,645,509, Cl. 623-55.000.
Moden, James R.; Caldwell, Michael D.; and Moden, Robert D., to Surgical Engineering Associates, Inc. Implantable infusion port. 4,710,174, 12-1-87, Cl. 604-175.000.
Moden, Robert D.: *See*—
Moden, James R.; Caldwell, Michael D.; and Moden, Robert D., 4,710,174, Cl. 604-175.000.
Modena, Giorgio: *See*—
De Lucchi, Ottorino; Filippuzzi, Fabiola; Modena, Giorgio; and Camera, Ettore, 4,713,466, Cl. 549-464.000.
Modera, Mark P.; and Sherman, Max H. Methods and apparatus for measuring the tightness of enclosures. 4,635,469, 1-13-87, Cl. 73-40.000.
Modern Engineering Service Company: *See*—
Cedar, Dennis A.; and Miller, Ralph L., 4,697,240, Cl. 364-474.000.
Modern Home Products Corp.: *See*—
Koziol, Walter, 4,679,544, Cl. 126-41.00R.
Koziol, Walter, 4,686,957, Cl. 126-41.00R.
Modern Mfg. Co. Inc.: *See*—
Stuck, Matthew A., 4,640,079, Cl. 53-390.000.
Modesitt, Phillip C.: *See*—
McLaughlin, Wayne C.; Recker, William J.; Modesitt, Phillip C.; and Francescon, Paul K., 4,678,040, Cl. 166-370.000.
Modglin, Rodger L.: *See*—
Loeber, Frederick W.; Cummins, Nolan W.; Modglin, Rodger L.; and Greene, George O., 4,706,723, Cl. 152-410.000.

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Modic, Fedor; Leibfried, Wolfgang; Nitsch, Manfred; Spitzenberger, Kurt; and Zimmermann, Herbert, to Robert Bosch GmbH. Process of producing galvanic layers of solder of precise contour on inorganic substrates. 4,640,739, 2-3-87, Cl. 156-659.100.

Modic, Frank J.: *See*—
Eckberg, Richard P.; Striker, Richard A.; and Modic, Frank J., 4,684,670, Cl. 522-13.000.

Modic, Rudolf; Porschen, Jorg; Schoengen, Anton; and Wirges, Ralf, to Dynamit Nobel Aktiengesellschaft. Process for the production of dimethyl terephthalate from p-xylene and methanol. 4,642,369, 2-10-87, Cl. 560-77.000.

Modic, Rudolf; Porschen, Jorg; Schoengen, Anton; and Wirges, Ralf, to Dynamit Nobel Aktiengesellschaft. Process for producing terephthalic acid from p-xylene and methanol by way of dimethyl terephthalate. 4,642,377, 2-10-87, Cl. 562-483.000.

Modica, Giovanni: *See*—
Giuffre, Luigi; Modica, Giovanni; Maffi, Silvia; Tempesti, Ezio; and Pierini, Giaacarlo, 4,663,012, Cl. 204-296.000.

Modin, Jimmie D. Hairstyling brush and a method for handling hairstyling brushes. 4,705,052, 11-10-87, Cl. 132-85.000.

Modine Manufacturing Company: *See*—
Granetzke, Dennis C., 4,633,939, Cl. 165-154.000.
Logic, Jeffrey A.; Awe, Russell C.; Costello, Norman F.; and Saperstein, Zalman P., 4,651,815, Cl. 165-76.000.
Saperstein, Z. Philip; Arneson, Dean A.; Larrabee, Scott R.; Logic, Jeffrey A.; Costello, Norman F.; and Awe, Russell C., 4,688,311, Cl. 29-157.30R.
Struss, Rodney A.; Costello, Norman F.; and Granetzke, Dennis C., 4,651,816, Cl. 165-76.000.

Modjeski, Roger A.: *See*—
Kennedy, Bruce L.; Beller, Joseph K.; and Modjeski, Roger A., 4,644,289, Cl. 330-145.000.

Modone, Eros: *See*—
Roba, Giacomo; and Modone, Eros, 4,711,652, Cl. 65-18.200.

Modrak, James P.: *See*—
Leibee, Bruce K.; and Modrak, James P., 4,662,759, Cl. 366-2.000.
Marvel, John B., Sr.; and Modrak, James P., 4,663,370, Cl. 523-221.000.

Modrovich, Ivan E.; Wegfahrt, Paul F., Jr.; and Gaussiran, Wanda A., to Modrovich, Ivan E. Soluble stabilized enzymes. 4,652,524, 3-24-87, Cl. 435-188.000.

Modrovich, Ivan Endre: *See*—
Wegfahrt, Paul F., Jr., 4,657,854, Cl. 435-14.000.

Modster, Rudolph W.: *See*—
Rowe, James M.; and Modster, Rudolph W., 4,710,433, Cl. 428-623.000.

Modublox & Co., Inc.: *See*—
Sheriff, Jack W., 4,673,949, Cl. 343-825.000.

ModuForm, Inc.: *See*—
Gavin, F. Paul; Brigham, David F.; and Gavin, Ann H., 4,681,901, Cl. 521-54.000.

Modugno, Joseph J.; and Klimley, William R., to Xerox Corporation. Dual-mode copier document feeder and computer forms web restacker. 4,635,916, 1-13-87, Cl. 271-3.000.

Modular Controls Corporation: *See*—
Kosarzecki, Constantine, 4,653,527, Cl. 137-244.000.

Modular Power Corporation: *See*—
Matouk, Anthony F.; Hoffman, David C.; and Barrus, Donald M., 4,691,274, Cl. 363-141.000.

Modular Robotics: *See*—
Mesher, Mark, 4,665,455, Cl. 360-98.000.

Mody, Dhiraj S.: *See*—
Blank, Robert G.; and Mody, Dhiraj S., 4,696,757, Cl. 252-186.290.

Mody, Dinesh I.; Rasmussen, James E.; and Ryaboy, Mikhail Y., to Fisher Scientific Company. Analysis apparatus. 4,640,821, 2-3-87, Cl. 422-81.000.

Moe, Gregory R.: *See*—
Kaiser, Emil T.; and Moe, Gregory R., 4,663,309, Cl. 514-11.000.

Moe, Lael A.; and Manville, Steven B. System for storing and shipping containers. 4,703,855, 11-3-87, Cl. 206-427.000.

Moe, Per H. Method for joining tubular parts of metal by forge/diffusion welding. 4,669,650, 6-2-87, Cl. 228-219.000.

Moebius, Wolfgang, to Dr. Ing h.c.F. Porsche Aktiengesellschaft. Projection headlight for motor vehicles. 4,670,818, 6-2-87, Cl. 362-61.000.

Moeckel, Mark D.: *See*—
Barrett, John R.; Cemenska, Richard A.; Gladden, John R.; Moeckel, Mark D.; and Schneider, Philip H., 4,684,321, Cl. 415-202.000.

Moeder, Kevin J.: *See*—
Longenecker, Francis S.; Moeder, Kevin J.; and Wolff, Jeffrey L., 4,711,437, Cl. 269-91.000.

Moehling, Charles, and Henkel, James A., to AMSTED Industries Incorporated. Bolster friction shoe pocket. 4,637,319, 1-20-87, Cl. 105-207.000.

Moehrmann, Karl H.: *See*—
Langenwalter, Michael; Moehrmann, Karl H.; Prussas, Herbert; and Spaeter, Lothar, 4,683,489, Cl. 357-81.000.

Moehwald, Helmut, to BASF Aktiengesellschaft. Composite material consisting of porous materials and electrically conductive polymers. 4,636,430, 1-13-87, Cl. 428-304.400.

Moekle, Charles D.; and Moekle, James A. Apparatus for forming and packaging stuffed product. 4,671,042, 6-9-87, Cl. 53-122.000.

Moekle, James A.: *See*—
Moekle, Charles D.; and Moekle, James A., 4,671,042, Cl. 53-122.000.

Moelands, Adrianus P. M. M.; and Schutte, Herman, to U.S. Philips Corporation. Two-wire bus-system comprising a clock wire and a data wire for interconnecting a number of stations. 4,689,740, 8-25-87, Cl. 364-200.000.

Moeller, Alvin W.; Willey, Robert E.; and Sinsky, Allen I., to Allied Corporation. Antenna feed network. 4,652,880, 3-24-87, Cl. 342-373.000.

Moeller, Alvin W.: *See*—
Acoract, Joseph H.; and Moeller, Alvin W., 4,639,732, Cl. 342-371.000.

Moeller, Charles P., to United States of America, Energy. Method and apparatus for preventing cyclotron breakdown in partially evacuated waveguide. 4,687,616, 8-18-87, Cl. 376-123.000.

Moeller, Charles P., to United States of America, Energy. Compact waveguide power divider with multiple isolated outputs. 4,704,589, 11-3-87, Cl. 333-113.000.

Moeller, David E.: *See*—
Poggi, Donald L.; Burgess, Ernest M.; Moeller, David E.; and Hittenberger, Drew A., 4,645,509, Cl. 623-55.000.

Moeller, Dieter: *See*—
Lenz, Werner; Sander, Hans; and Moeller, Dieter, 4,687,813, Cl. 525-131.000.

Moeller, Eckhard; Mueller, Wolfgang H. E.; and Hausen, Manfred Z., to Huls Aktiengesellsqhaft. Method for removing n-butyraldehyde from gas streams. 4,714,784, 12-22-87, Cl. 568-492.000.

Moeller, Hinrich; and Wallat, Siegfried, to Henkel Kommanditgesellschaft auf Aktien. Sebosuppressive preparations containing alkoxyaryl alkanols. 4,668,705, 5-26-87, Cl. 514-718.000.

Moeller, Hinrich; and Wallat, Siegfried, to Henkel Kommanditgesellschaft auf Aktien. Sebosuppressive cosmetic preparations containing alkoxy or alkylbenzyloxy benzoic acids or their salts. 4,683,244, 7-28-87, Cl. 514-568.000.

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Moeller, Hinrich; and Zeidler, Ulrich, to Henkel Kommanditgesellschaft auf Aktien. Oligopeptide derivatives, their production and their use as surfactants gentle to the skin. 4,705,682, 11-10-87, Cl. 424-70.000.

Moeller, Johan: *See*—
Lutzer, Charles H.; Lethin, Nils L.; Moeller, Johan; and Holm, Bjarne R., 4,643,484, Cl. 301-11.00S.

Moeller, Mark A.; and Burkhart, Larry J., to Carrier Corporation. Coupling mechanism for an expansion device in a refrigeration system. 4,653,291, 3-31-87, Cl. 62-511.000.

Moeller, Martin: *See*—
Bartenbach, Christian; Moeller, Martin; and Lanzenberger, Rudolf, 4,699,467, Cl. 350-259.000.

Moeller, Matthias, to Siemens Aktiengesellschaft. Solar cell comprising a semiconductor body formed of amorphous silicon and having a layer sequence p-SiC/i/n. 4,681,984, 7-21-87, Cl. 136-258.000.

Moeller, Reiner; Hetzel, Gert; Saugeon, Ulrich; Boheim, Gustav; and Zurinski, Viktor, to Siemens Aktiengesellschaft. Ultrasound apparatus permitting dynamic variation of the position of the reception focus. 4,707,813, 11-17-87, Cl. 367-103.000.

Moeller, Richard E.: *See*—
Brolin, Charles A.; Jennerjohn, Dennis A.; and Moeller, Richard E., 4,687,892, Cl. 219-8.500.

Moeller, Robert P.; and Burns, William K., to United States of America, Navy. Fiber optic gyroscope operating with unpolarized light source. 4,653,917, 3-31-87, Cl. 356-350.000.

Moeller, Rudolph H., to BioDynamic Technologies Inc. Apparatus for comminuting bone. 4,706,897, 11-17-87, Cl. 241-37.500.

Moen, Carl J., to Beloit Corporation. Three-way valve for an attensator. 4,637,434, 1-20-87, Cl. 137-625.660.

Moen, Ingar: *See*—
Nilsen, Gunnar; Wang, Erik; and Moen, Ingar, 4,649,237, Cl. 200-15.000.

Moen, Lenard E. Flap folding mechanism for manufacture of boxes with integrally reinforced walls. 4,657,527, 4-14-87, Cl. 493-176.000.

Moen, Lenard E. Machine for manufacture of boxes with integrally reinforced walls. 4,661,091, 4-28-87, Cl. 493-417.000.

Moen, Lenard E. Apparatus for recubing boxes. 4,696,614, 9-29-87, Cl. 414-28.000.

Moen, Lenard E. Process of recubing boxes. 4,708,583, 11-24-87, Cl. 414-786.000.

Moench, Hans, to Oceanlense, Limited. Center-grip pad holder for floor maintenance machine. 4,662,024, 5-5-87, Cl. 15-230.190.

Moench, Julius; Rentzsch, Heinz; Lang, Georg; and Mueller, Herbert, to Siemens Aktiengesellschaft. Device for guiding daylight. 4,654,243, 3-31-87, Cl. 428-46.000.

Moerder, Karl E., to M/A-COM Government Systems, Inc. Descrambler subscriber key production system utilizing key seeds stored in descrambler. 4,634,808, 1-6-87, Cl. 178-22.140.

Moerke, Delford A. Rotatable mount providing communication between mounted device and associated utilities. 4,656,329, 4-7-87, Cl. 219-136.000.

Moerman, Boudewijn: *See*—
Doerfler, Rudolf; Krause, Kurt; Kummerow, Gerd; Moerman, Boudewijn; Schnabel, Rudolf; Schroether, Gerhard; Voigt, Rolf; Weidner, Georg; and Zentgraf, Lothar, 4,670,812, Cl. 361-83.000.

Moermann, Renate: *See*—
Gollub, Hans J.; Hechenberger, Dieter A.; and Moermann, Renate, 4,716,189, Cl. 524-284.000.

Moeschler, Heinrich F.; Pfluger, Wolfgang; and Wendisch, Detlef; to Bayer Aktiengesellschaft. Pure annonin and a process for the preparation thereof. 4,689,232, 8-25-87, Cl. 424-195.100.
Moesgaard, Anders, to AM/KEMI A/S. Cleaning cassette for use in a cassette tape recorder. 4,670,808, 6-2-87, Cl. 360-128.000.
Moetting, Goetz. *See*—
Huth, Lothar; Dahm, Horst; Moetting, Goetz; and Haeberle, Fritz. 4,703,398, Cl. 362-61.000.
Moffat, Ian. Method of adding extra floors on existing buildings. 4,640,070, 2-3-87, Cl. 52-236.300.
Moffatt, E. Marston; and Swarts, Richard E., to United Technologies Corporation. Impulse jet pump. 4,660,417, 4-28-87, Cl. 73-505.000.
Moffatt, E. Marston. *See*—
Swarts, Richard E.; Moffatt, E. Marston; and Lopiccolo, Mario T., 4,714,815, Cl. 219-121.0LC.
Moffatt, Jeffrey C. *See*—
Salam, Steven J.; and Moffatt, Jeffrey C., 4,686,880, Cl. 84-1.010.
Moffatt, Michael; LePage, James; and Englar, Gerald; to EMI Environmental Simulations Inc. Portable panoramic theatre. 4,641,918, 2-10-87, Cl. 350-125.000.
Moffett, Darcel R.; to Judy's Walking Beam Service, Inc. Apparatus for replacing a trunnion bracket spindle. 4,704,780, 11-10-87, Cl. 29-252.000.
Moffett, Robert H. *See*—
Cescon, Lawrence A.; Trebilcock, Robert W.; and Moffett, Robert H., 4,714,503, Cl. 149-21.000.
Moffat, Bryan S. *See*—
Grimes, Gary J.; Lanzafame, Christopher; and Moffitt, Bryan S., 4,672,299, Cl. 323-217.000.
Moffitt, Michael S.; and Roberts, Brian L. Packaging tray having flexible zones in a supporting layer. 4,682,693, 7-28-87, Cl. 206-583.000.
Mogami, Yukio. *See*—
Arita, Masanobu; Tanaka, Hisao; and Mogami, Yukio, 4,652,490, Cl. 428-347.000.
Mogelof, Andrew. Adjustable dental wedging system. 4,715,816, 12-29-87, Cl. 433-149.000.
Mogensen, Palne. Method and means for applying a heat exchanger in a drill hole for the purpose of heat recovery or storage. 4,715,429, 12-29-87, Cl. 165-45.000.
Mogensen, Vagn, to Dansk Industri Syndikat A/S. Method and an apparatus for replacing pattern plates in a moulding system. 4,678,021, 7-7-87, Cl. 164-40.000.
Mogg, Herbert. *See*—
Backu, Konrad; Ast, Adolf; and Mogg, Herbert. 4,669,558, Cl. 177-187.000.
Moggio, William A. *See*—
Bohrn, Walter J.; Lewis, Robert D.; and Moggio, William A., 4,713,084, Cl. 8-561.000.
Moghaddassi, Magid N. *See*—
Porat, Itzchak; Grosberg, Percy; and Moghaddassi, Magid N., 4,679,784, Cl. 271-18.300.
Mogi, Eiji. *See*—
Kanai, Hideo; Komba, Toshinori; and Mogi, Eiji, 4,694,571, Cl. 29-806.000.
Mogi, Fumio. *See*—
Arai, Tomio; Nakagawa, Takao; Mogi, Fumio; and Oshiguri, Noriaki, 4,663,021, Cl. 208-67.000.
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Mogi, Takao; and Morizono, Masahiko, to Sony Corporation. Integrated circuit devices. 4,706,186, 11-10-87, Cl. 364-136.000.
Mogi, Takao. *See*—
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Okada, Takashi; Mogi, Takao; and Mino, Shinjiro, 4,636,855, Cl. 358-124.000.
Okada, Takashi; Mogi, Takao; Kobayashi, Hiroyuki; and Ohi, Katsuyuki, 4,679,235, Cl. 380-20.000.
Okada, Takashi; and Mogi, Takao, 4,700,388, Cl. 380-20.000.
Tomioka, Masao; Okada, Takashi; and Mogi, Takao, 4,635,112, Cl. 358-122.000.
Mogi, Tomonori; and Kashio, Yoshiaki, to Honda Giken Kogyo Kabushiki Kaisha. Straddle type vehicle seat assembly. 4,712,637, 12-15-87, Cl. 180-219.000.
Mogi, Toshiaki. *See*—
Tatsumi, Hisao; Kayata, Haruhiko; Yamamori, Kenji; Kakizawa, Toshio; and Mogi, Toshiaki, 4,712,115, C. 346-76.0PH.
Mogler, Herr J. *See*—
Gaul, Herr K.; Mogler, Herr J.; and Wiedmann, Herr H., 4,684,038, Cl. 222-89.000.
Mogol, Gerald M.; and Fox, Leo E. Simulated log-burning fireplace. 4,637,372, 1-20-87, Cl. 126-127.000.
Moguilewski, Martine. *See*—
Torelli, Vesperto; Nedelec, Lucien; Moguilewski, Martine; and Moura, Anne-Marie, 4,701,449, Cl. 514-175.000.
Moguilewsky, Martine. *See*—
Jouquey, Alain; Philibert, Daniel; Moguilewsky, Martine; and Veltz, Jean-Noel, 4,664,850, Cl. 260-397.450.
Mohacsi, Erno; and O'Brien, Jay P., to Hoffmann-La Roche Inc. Naphtho[1,8-bc]-1,5-thiazocinones. 4,640,930, 2-3-87, Cl. 514-431.000.
Mohacsi, Erno; and O'Brien, Jay P., to Hoffmann-La Roche Inc. Naphtho[1,2-b]-1,4-thiazepinones. 4,652,561, 3-24-87, Cl. 514-211.000.
Mohacsi, Sandor; Potel, Gerd; and Buchholz, Karl-Heinz, to M.A.N. Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Arrangement to increase roll stability of rail vehicles with air suspension. 4,665,835, 5-19-87, Cl. 105-199.200.
Mohammadian, Mehdi. *See*—
Brubakken, Gardner G.; and Mohammadian, Mehdi, 4,704,747, Cl. 4-321.000.
Mohammed, Juzer, to GTE Communication Systems Corporation. Printed wiring board with zones of controlled thermal coefficient of expansion. 4,654,248, 3-31-87, Cl. 428-137.000.
Mohammed, Khalid. *See*—
Capasso, Federico; Cho, Alfred Y.; Hutchinson, Albert L.; and Mohammed, Khalid, 4,679,061, Cl. 357-4.000.
Mohammed, Sheikh A. H. *See*—
Timar, John; Mohammed, Sheikh A. H.; and Walker, John, 4,665,963, Cl. 152-504.000.
Von Hellens, Walter; Mohammed, Sheikh A. H.; and Hallman, Robert, 4,645,793, Cl. 524-518.000.
Mohan, Edwin R. *See*—
Bernard, Thomas E.; Roth, Emile M.; Mohan, Edwin R.; Sherwin, Gary W.; and Zomp, John M., 4,697,598, Cl. 128-731.000.
Mohan, Raja, to Edo Corporation Fiber Science Division. Method of manufacture of large high pressure composite bottles. 4,671,831, 6-9-87, Cl. 156-69.000.
Mohan, Raja, to Edo Corporation/Fiber Science Division. High pressure vessel construction. 4,699,288, 10-13-87, Cl. 220-3.000.
Mohanraj, Subramaniam; and Ford, Warren T. Method of chlorinating methyl groups of methyl vinyl aromatic polymers. 4,713,423, 12-15-87, Cl. 525-351.000.
Mohanty, Bibhuti B., to C-I-L Inc. Smooth wall blasting in rock. 4,690,058, 9-1-87, Cl. 102-312.000.
Mohaupt, Henry H. Well completion technique. 4,673,039, 6-16-87, Cl. 166-281.000.
Mohaupt, Jutta. *See*—
Kaarmann, Hans; Lubitz, Karl; Mohaupt, Jutta; Vogt, Martina; and Wersing, Wolfram, 4,686,409, Cl. 310-358.000.
Mohiuddin, Kottappuram M. A.; and Rissanen, Jorma J., to International Business Machines Corporation. Multiplication-free multi-alphabet arithmetic code. 4,652,856, 2-24-87, Cl. 340-347.0DD.
Mohlenbrock, William C.; Farley, Peter J.; Trummell, Donald E., Jr.; and Kahn, Theodore E., to Iameter Incorporated. Medical reimbursement computer system. 4,667,292, 5-19-87, Cl. 364-409.000.
Mohler, Robert D. *See*—
Eppstein, Lee B.; Mohler, Robert D.; and Reuveny, Shaul, 4,680,267, Cl. 435-289.000.
Mohn, Jurgen; and Heine, Wilhelm. Apparatus for filtering and separating flowing media. 4,698,154, 10-6-87, Cl. 210-232.000.
Mohn, Walter R.; and Roth, Peter A., to Atlantic Richfield Company. Mirror optic article. 4,643,543, 2-17-87, Cl. 350-609.000.
Mohn, Walter R., to Allied Corporation. Method and apparatus for rapidly solidifying metal employing a metallic conditioning brush. 4,708,194, 11-24-87, Cl. 164-463.000.
Mohndruck Graphische Betriebe GmbH. *See*—
Kwasuka, Gerd-Georg, 4,711,612, Cl. 414-68.000.
Mohney, Hubert L. R. *See*—
Macemon, Herbert J.; Schtake, Randall L.; Fisher, John L.; Piatt, Clair E.; and Mohney, Hubert L. R., 4,683,919, Cl. 140-92.200.
Mohnot, Shantilal M.; and Chakrabarti, Paritosh M., to PPG Industries, Inc. Alkaline water flooding with a precipitation inhibitor for enhanced oil recovery. 4,714,113, 12-22-87, Cl. 166-270.000.
Mohondro, William R., to Kaiser Aluminum & Chemical Corporation. Process for manufacturing clad aluminum-lithium alloys. 4,635,842, 1-13-87, Cl. 228-175.000.
Mohr, Ernst-Guenter. *See*—
Beinvogl, Willy; Enders, Gerhard; and Mohr, Ernst-Guenter, 4,658,496, Cl. 29-571.000.
Mohr, Friedemann, to International Standard Electric Corp. Optical fiber coil having juxtaposed ends in same or adjacent layers for rotation rate measuring instrument. 4,699,451, 10-13-87, Cl. 350-96.150.
Mohr, Friedemann, to International Standard Electric Corp. Rotation rate measuring instrument. 4,702,599, 10-27-87, Cl. 356-350.000.
Mohr, Gerard. *See*—
Mohr, Pierre; and Mohr, Gerard, 4,635,557, Cl. 104-7.200.
Mohr, Glenn R.; and Roth, Donald J., to Continental Can Company, Inc. Induction heating unit for heat bonding a lid having a metallic layer to a container. 4,707,213, 11-17-87, Cl. 156-380.200.
Mohr, Heinrich. *See*—
Bronstert, Klaus; Hochstein, Waldhelm; Mohr, Heinrich; Sandrock, Gerhard; Vogel, Hans-Henning; and Rath, Hans P., 4,663,406, Cl. 526-204.000.
Schick, Hans; Kolk, Erich; Fauth, Karl-Heinz; and Mohr, Heinrich, 4,691,072, Cl. 585-525.000.
Mohr, Henry G. Pressure sensitive leveling device. 4,651,433, 3-24-87, Cl. 33-366.000.
Mohr, Henry G., to Leggett & Platt, Incorporated. Wire coiling method and device. 4,700,558, 10-20-87, Cl. 72-145.000.
Mohr, Joachim. *See*—
Florek, Stefan; Becker-Ross, Helmut; Obschal, Hans-Jurgen; and Mohr, Joachim, 4,680,559, Cl. 356-328.000.
Mohr, Karl-Heinz; and Tratz, Manfred, to Balcke-Durr Aktiengesellschaft. Cleaning device for regenerative heat exchangers. 4,705,057, 11-10-87, Cl. 134-180.000.
Mohr, Karl-Heinz. *See*—
Gollnick, Wilhelm; Klauke, Friedrich; and Mohr, Karl-Heinz, 4,651,809, Cl. 165-9.000.
Mohr, Larry D. Belt cleaning apparatus. 4,672,985, 6-16-87, Cl. 134-57.00R.

Mohr, Paul H.; and Pepe, Enrico J., to First Brands Corporation. Silicate-containing antifreeze with carboxy-substituted organosilicon stabilizer. 4,701,277, 10-20-87, Cl. 252-75.000.

Mohr, Paul H.: *See*—
Cassin, Thomas R.; Jex, Victor B.; Matulewicz, William N.; McKenzie, Dale A.; and Mohr, Paul H., 4,664,833, Cl. 252-75.000.

Mohr, Pierre; and Mohr, Gerard, to Framafer. Machine for works on a railway track with continuous advance. 4,635,557, 1-13-87, Cl. 104-7.200.

Mohr, Reinhard: *See*—
Neeb, Rudolf; and Mohr, Reinhard, 4,638,053, Cl. 534-589.000.

Mohr, Viggo: *See*—
Hellgren, Lars G. I.; Mohr, Viggo; and Vincent, Jan G., 4,695,457, Cl. 424-94.000.

Mohrbach, Johannes. Pivoted arm punching machine. 4,651,608, 3-24-87, Cl. 83-536.000.

Mohri, Fumihiko: *See*—
Sakauchi, Takashi; Mohri, Fumihiko; Tomoda, Naohisa; and Nakatsuka, Satoshi, 4,702,852, Cl. 252-62.540.

Mohri, Katsuo: *See*—
Furuhata, Takashi; Mohri, Katsuo; and Konishi, Katsuo, 4,642,708, Cl. 360-77.000.

Mohri, Kunihiko: *See*—
Takasuka, Yutaka; Mohri, Kunihiko; and Kawaguchi, Akiko, 4,648,908, Cl. 106-308.00F.
Takasuka, Yutaka; Mohri, Kunihiko; and Kawaguchi, Akiko, 4,710,375, Cl. 424-69.000.

Mohri, Masakazu: *See*—
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,674,556, Cl. 164-454.000.
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,694,885, Cl. 164-416.000.
Sakaguchi, Haruo; Suehiro, Teruyoshi; Terada, Kohsuke; Ueda, Minoru; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,703,791, Cl. 164-417.000.

Mohri, Minoru: *See*—
Takahashi, Fumitaka; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, 4,672,214, Cl. 250-551.000.
Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, 4,674,828, Cl. 350-96.130.

Mohri, Satoshi: *See*—
Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; Sasaki, Toshiro; Miyamoto, Shoji; and Nakajima, Takashi, 4,658,361, Cl. 364-434.000.
Sasaki, Toshiro; Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; and Miyamoto, Shoji, 4,680,718, Cl. 364-455.000.

Mohri, Shunji, to Hitachi, Ltd. Table driven translator. 4,712,189, 12-8-87, Cl. 364-900.000.

Mohri, Shunji: *See*—
Okada, Takushi; and Mohri, Shunji, 4,670,849, Cl. 364-513.000.

Mohring, Donald H.: *See*—
Esslinger, Steven L.; and Mohring, Donald H., 4,644,755, Cl. 62-126.000.

Mohring, Edgar; Wagner, Kuno; and Muller, Hanns P., to Bayer Aktiengesellschaft. Process for the preparation of low molecular weight polyhydroxyl compounds, 4,654,377, 3-31-87, Cl. 521-170.000.

Mohring, Edgar; Muller, Hanns P.; Roessler, Peter; Wagner, Kuno; and Tietz, Helmut, to Bayer Aktiengesellschaft. Solubilizing biologically active compounds with reactive hydrogen atoms. 4,684,728, 8-4-87, Cl. 544-182.000.

Mohrlang, Harry, to Mohrlang Manufacturing, Inc. Feed mixer. 4,707,140, 11-17-87, Cl. 366-186.000.

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Mohrlang, Harry, 4,707,140, Cl. 366-186.000.

Mohrman, Raymond F.: *See*—
Kosednar, Joseph F.; Mohrman, Raymond F.; and Gundlach, Philip M., Jr., 4,669,049, Cl. 364-557.000.

Mohrmann, Karl-Heinrich: *See*—
Ziemann, Heinz; and Mohrmann, Karl-Heinrich, 4,661,640, Cl. 568-308.000.

Moinard, Patrice: *See*—
Perrin, Alain; and Moinard, Patrice, 4,637,747, Cl. 403-23.000.

Moinet, Gerard; Schaeffer, Michel; Bessin, Pierre; and Bonnet, Jacqueline. Novel heterocyclic derivatives bearing an amino radical, processes for their production and the pharmaceutical compositions containing them. 4,647,557, 3-3-87, Cl. 514-210.000.

Moir, Donald T.: *See*—
Alford, Bernadette L.; Mao, Jen-I; Moir, Donald T.; Taunton-Rigby, Alison; and Vovis, Gerald F., 4,666,847, Cl. 435-253.000.
Botstein, David; Davis, Ronald W.; Fink, Gerald R.; Taunton-Rigby, Alison; Knowlton, Robert G.; Mao, Jen-i; Moir, Donald T.; and Goff, Christopher G., 4,661,454, Cl. 435-256.000.

Moisala, Tapio; and Gustafsson, Jukka, to AGA AB; and Oy Partek AB. Apparatuses in the manufacture of mineral wool. 4,715,877, 12-29-87, Cl. 65-15.000.

Moisan, Michael P.; and Cook, Joseph P., to Kollmorgen Technologies Corporation. System for selective metallization of electronic interconnection boards. 4,668,532, 5-26-87, Cl. 427-97.000.

Moisdon, Roger F. G. Vertical ship. 4,656,959, 4-14-87, Cl. 114-56.000.

Moise, John C., to Nimbus, Inc. Anti-thrombogenic blood pump. 4,704,121, 11-3-87, Cl. 623-3.000.

Moiseev, Viktor I.: *See*—
Lidorenko, Nikolai S.; Gorun, Viktor T.; Muchnik, Grigory F.; Karichev, Zia R.; Shteinberg, Alexandr N.; Lev, Mikhail B.; Moiseev, Viktor I.; Schegolev, Igor S.; Ilin, Vladimir M.; and Smirnov, Igor I., 4,666,668, Cl. 422-48.000.

Moisel, Hartmut: *See*—
Diskowski, Jorg; Jeppel, Wolfgang; Moisel, Hartmut; and Spiess, Hans P., 4,674,061, Cl. 364-571.000.

Moison, Jean-Marie M.: *See*—
Bensoussan, Marcel; and Moison, Jean-Marie M., 4,664,940, Cl. 427-53.100.

Moisson, Marc F.: *See*—
Shen, Nelson M.; Moisson, Marc F.; Arrington, John P.; and Tayeb, AbdulMohamed, 4,705,347, Cl. 350-96.150.

Moja, Egidio A.; and Gessa, Gianluigi, to Boehringer Biochemia Robin S.p.A. Dietetic supplement and prepackaged food in which it is contained, process of preparation and method of administration. 4,638,013, 1-20-87, Cl. 514-561.000.

Mojaverian, Parviz: *See*—
Repta, Arnold J.; and Mojaverian, Parviz, 4,684,630, Cl. 514-49.000.

Mojden, Andrew E.: *See*—
Mojden, Wallace W.; and Mojden, Andrew E., 4,655,350, Cl. 209-577.000.
Mojden, Wallace W.; and Mojden, Andrew E., 4,676,708, Cl. 414-33.000.

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Mojden, Wallace W.; and Mojden, Andrew E., to Fleetwood Systems, Inc. Stack developing and vertical elevating assembly and method therefor. 4,676,708, 6-30-87, Cl. 414-33.000.

Mojden, Wallace W.; and Darr, Robert E., to Fleetwood Systems, Inc. Method of automatically de-bagging can ends and like articles. 4,681,507, 7-21-87, Cl. 414-786.000.

Moji, Yukimori; and Taylor, Richard Q., to Boeing Company, The. Honeycomb core structure with embedded fastener. 4,716,067, 12-29-87, Cl. 428-117.000.

Mojica, Arturo: *See*—
Baigert, Teddy A.; Bunker, Neall H.; Cochran, James L.; Duane, Willis J.; and Mojica, Arturo, 4,714,946, Cl. 355-75.000.

Mojonnier, Harry G. Scrubber/degasser apparatus. 4,659,345, 4-21-87, Cl. 55-165.000.

Mok, Felix: *See*—
Warren, Ian H.; and Mok, Felix, 4,693,790, Cl. 204-1.00T.

Mok, Walter Y. W., to MCM Laboratories, Inc. Probe-and-fire lasers. 4,641,650, 2-10-87, Cl. 128-303.100.

Mok, Walter Y. W., to MCM Laboratories, Inc. Probe-and-fire lasers. 4,682,594, 7-28-87, Cl. 128-303.100.

Mokveld, Nicolaas J., to Mokveld Valves bv. Nonreturn piston slide valve. 4,638,832, 1-27-87, Cl. 137-220.000.

Mokveld Valves bv.: *See*—
Mokveld, Nicolaas J., 4,638,832, Cl. 137-220.000.

Mol, Min K.: *See*—
Meares, Claude F.; DeNardo, Sally J.; Cole, William C.; and Mol, Min K., 4,678,667, Cl. 424-85.000.

Molaire, Michel F.; Scozzafava, Michael; and McColgin, William C., to Eastman Kodak Company. Color filter elements and electrophotographic method of making same. 4,650,734, 3-17-87, Cl. 430-7.000.

Molaire, Michel F.; and Farid, Samir Y., to Eastman Kodak Company. Photoelectrographic elements and imaging method. 4,661,429, 4-28-87, Cl. 430-70.000.

Molaug, Ole. Swivel-jointed robot arm. 4,696,659, 9-29-87, Cl. 464-148.000.

Molaug, Ole; Havrevold, Sveinung B.; and Skjoveland, Odd, to Akva A/S. Method for feeding fish. 4,708,090, 11-24-87, Cl. 119-51.00R.

Mold-Masters Limited: *See*—
Basnett, David T., 4,712,995, Cl. 425-562.000.
Butcher, Robert M., 4,698,013, Cl. 425-549.000.
Schmidt, Harald H.; and McDowall, Rory, 4,702,689, Cl. 425-548.000.
Schmidt, Harald H., 4,705,473, Cl. 425-549.000.

Moldawer, Lyle L.: *See*—
Blackburn, George L.; Babayan, Vigen K.; Bistrian, Bruce; Moldawer, Lyle L.; and Cotter, Richard, 4,703,062, Cl. 514-552.000.

Molded Parts Specialists: *See*—
Walthall, B. Kenneth, 4,706,592, Cl. 114-153.000.

Molded Products Company: *See*—
Dennis, Frank S., 4,656,689, Cl. 16-2.000.

Moldenhauer, James E., to Rockwell International Corporation. Steam generator support system. 4,688,628, 8-25-87, Cl. 165-67.000.

Moldovan, Nicholas; and Hodges, Bobby R., to M/A-Com. Nonpenetrating roof mount for antenna. 4,649,675, 3-17-87, Cl. 52-27.000.

Moldovan, Peter K.; and Larsen, Michael R., to Eaton Corporation. Vibration and shockproof overload protection subassembly for an electric device. 4,672,350, 6-9-87, Cl. 337-82.000.

Moldowan, Mervin J. Composition and method for ethanol determination. 4,642,286, 2-10-87, Cl. 435-25.000.

Molecular Biosystems, Inc.: *See*—
Widder, Kenneth J., 4,675,173, Cl. 424-9.000.

Molecular Design International: *See*—
Parish, Harlie A.; and Purcell, William P., 4,677,120, Cl. 514-549.000.

Molecular Devices Corporation: *See*—
Humphries, Gillian M. K.; Parce, John W.; and McConnell, Harden M., 4,704,353, Cl. 435-4.000.

Molecular Diagnostics, Inc.: *See*—
Dattagupta, Nanibhushan, 4,670,380, Cl. 435-6.000.
Dattagupta, Nanibhushan, 4,692,509, Cl. 530-303.000.

Dattagupta, Nanibhushan; and Crothers, Donald M., 4,713,326, Cl. 435-6.000.
Knowles, William J.; Marchesi, Vincent T.; and Haigh, Wallace, 4,647,654, Cl. 530-326.000.
Knowles, William J.; and Marchesi, Vincent T., 4,658,022, Cl. 530-402.000.
Taylor, Peter W., 4,695,541, Cl. 435-18.000.

Molecular Genetics, Inc.: *See*—
Sadowski, Peter L., 4,652,448, Cl. 424-87.000.
Weis, John H.; and Salstrom, John S., 4,663,290, Cl. 435-253.000.

Molecular Genetics Research and Development Limited Partnership: *See*—
George, Henry J.; Krzyzek, Richard A.; Enquist, Lynn W.; and Watson, Roger J., 4,673,641, Cl. 435-68.000.
Hibberd, Kenneth A.; Anderson, Paul C.; and Barker, Melanie, 4,642,411, Cl. 800-1.000.
Kempe, Tomas; Purchio, Anthony F.; Collett, Marc S.; and DeLorbe, William J., 4,661,450, Cl. 435-172.300.
Salstrom, John S.; Newman, Dawn; Harbrecht, Douglas F.; and Hu, Shin-Lok, 4,634,678, Cl. 435-317.000.

Molecular, Inc.: *See*—
Nichols, Larry D., 4,643,856, Cl. 264-41.000.

Molee, Casper S.: *See*—
Winters, Arthur; and Molee, Casper S., 4,681,122, Cl. 128-736.000.

Molee, Kenneth J.: *See*—
Becker, Patricia E.; and Molee, Kenneth J., 4,648,876, Cl. 604-370.000.
Becker, Patricia E.; and Molee, Kenneth J., 4,657,538, Cl. 604-381.000.

Molee, John A. G.; and McMahon, Colbert M.; to Short Brothers PLC: Gyroscope. 4,690,007, 9-1-87, Cl. 74-5.120.

Moles, Robert G. H.: *See*—
Goss, Gary J.; Moles, Robert G. H.; Hinrichs, Randall D.; and Holtey, Thomas O., 4,651,329, Cl. 375-94.000.

Moles, Warren H.; and Dischert, Robert A.; to RCA Corporation: Field comb for luminance separation of NTSC signals. 4,636,841, 1-13-87, Cl. 358-31.000.

Moles, Warren H.: *See*—
Dischert, Robert A.; Moles, Warren H.; Jose, David L.; and Walter, James M., 4,672,443, Cl. 358-140.000.

Molex Incorporated: *See*—
Bamford, William C.; and Ichijo, Yasuhiro, 4,657,320, Cl. 339-4.000.
Bixler, Craig A.; and Triner, Irvin R., 4,713,023, Cl. 439-393.000.
Bleuel, Eric P.; and Ponn, Timothy R., 4,662,968, Cl. 156-250.000.
Brinkman, Donald J.; and Leonard, Russell J., 4,635,355, Cl. 29-747.000.
Colleran, Stephen A.; and Lenz, William R., 4,693,532, Cl. 439-594.000.
Colleran, Stephen A.; and Doles, Connie, 4,693,536, Cl. 439-404.000.
Dechelette, Helen, 4,634,200, Cl. 339-17.00M.
Dechelette, Helen, 4,657,329, Cl. 339-97.00P.
DeRoss, Robert; and Gierut, Joseph J., 4,660,917, Cl. 339-97.00R.
DeRoss, Robert, 4,701,137, Cl. 439-394.000.
Edgley, Richard, 4,712,848, Cl. 439-327.000.
Finney, James E.; and Brubaker, Weldon L., 4,697,340, Cl. 29-862.000.
Fukushima, Minoru; and Kunishi, Shinsuke, 4,681,393, Cl. 439-851.000.
Funcik, Jack F.; Kolanowski, Clarence; Nugarus, Anthony R.; Pellegrino, Thomas P.; and Chmela, Frank, 4,653,183, Cl. 29-759.000.
Heisner, Douglas L.; Zahlit, Wayne A.; and Lickus, Leonard J., 4,653,665, Cl. 221-11.000.
Michaels, Leonard H.; and Miller, Robert A., 4,707,047, Cl. 439-271.000.
Nigg, Daniel; DeRoss, Robert; Sommer, Edward; Raymer, Jack D., II; and Crane, Burke, 4,659,157, Cl. 339-18.00R.
Regnier, Kent E.; Hoover, Thomas C.; and Walse, Alan S., 4,713,013, Cl. 439-62.000.
Schneider, Thomas E.; Kolanowski, Clarence; and Patterson, Richard L., 4,680,841, Cl. 29-33.00M.
Silbernagel, Raymond A.; and Funck, Gordon W., 4,698,025, Cl. 439-79.000.
Sowinski, Leonard, 4,653,187, Cl. 29-884.000.
Stipanuk, John M.; Walse, Alan S.; and Regnier, Kent E., 4,665,614, Cl. 29-884.000.
Stipanuk, John M.; and Yun, John M., 4,714,435, Cl. 439-496.000.
Szumierz, Anthony J.; and Chmela, Frank P., 4,660,279, Cl. 29-747.000.
Triner, Irvin R.; and Bixler, Craig A., 4,679,879, Cl. 439-425.000.
Wilson, Bill B.; and Colleran, Steve, 4,653,831, Cl. 339-98.000.
Wright, Steven F.; Stenstrom, Eric J.; and Wolyn, Joseph, 4,633,584, Cl. 29-834.000.

Molin, Nils L.; Welander, Thomas G.; Hansson, Bengt G.; Andersson, Per-Erik; and Annergren, Goran E., to Purac Aktiebolag: Method of controlling an anaerobic treatment process. 4,659,471, 4-21-87, Cl. 210-603.000.

Molin, Nils L.; Welander, Thomas G.; Hansson, Bengt G.; Andersson, Per-Erik; and Olsson, Bengt A. G., to Purac Aktiebolag: Method of treating peroxide-containing wastewater. 4,663,043, 5-5-87, Cl. 210-603.000.

Molina, Jorge W., to Deutsch Fastener Corp: Fastener installation tool. 4,649,732, 3-17-87, Cl. 72-391.000.

Molinari, Claudio, to UNIMAC S.r.l.: Shaped pasta products. 4,693,900, 9-15-87, Cl. 426-128.000.

Molinari, Egidio, to Erregierre Industria Chimica SpA: Morpholine containing propionylanilides and pharmaceutical compositions. 4,639,449, 1-27-87, Cl. 514-234.000.

Moline, Edward F., to Artos Engineering Company: Terminal applicator having quick-adjust connecting link. 4,707,913, 11-24-87, Cl. 29-753.000.

Molino, Bruce F.: *See*—
Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; Molino, Bruce F.; Tucker, Thomas J.; and Banti, Ferdinand, Jr., 4,666,913, Cl. 514-259.000.

Molino, Joseph L.: Swim platform with universal mounting system. 4,669,414, 6-2-87, Cl. 114-343.000.

Molins, Desmond W.: *See*—
Hinchcliffe, Dennis; Labbe, Francis A. M.; Molins, Desmond W.; and Orpin, Edward J., 4,667,687, Cl. 131-94.000.

Molins Limited: *See*—
Arthur, Hugh M.; and Labbe, Francis A. M., 4,646,675, Cl. 118-63.000.
Rakowicz, Jan A.; and Hodsall, Brian, 4,704,054, Cl. 406-28.000.

Molins Machine Company, Inc.: *See*—
Buinewicz, Benedict R., 4,657,624, Cl. 156-470.000.
Craemer, Robert H., 4,685,394, Cl. 101-426.000.

Molins PLC: *See*—
Arthur, Hugh M., 4,661,090, Cl. 493-44.000.
Arthur, Hugh M.; Mills, John A.; and Wood, Godfrey A., 4,665,930, Cl. 131-281.000.
Bolt, Reginald C.; Dyett, Derek H.; and Williams, Robert E., 4,635,653, Cl. 131-281.000.
Calverley, Simon G.; Carter, David C. M.; Clarke, Peter A.; Dowding, John G.; Hawkins, David M.; and Mitchell, Robert J. C. S., 4,690,604, Cl. 414-403.000.
Gayfer, David; Starkey, Stanley V.; and Wareham, John G., 4,690,265, Cl. 198-347.000.
Graham-Troll, Dennis, 4,696,310, Cl. 131-105.000.
Heybourn, Frank; Carter, David C. M.; and Griffiths, Allen F., 4,653,631, Cl. 198-778.000.
Hinchcliffe, Dennis; Labbe, Francis A. M.; Molins, Desmond W.; and Orpin, Edward J., 4,667,687, Cl. 131-94.000.
Labbe, Francis A. M., 4,643,203, Cl. 131-94.000.

Molison, Robert E.: *See*—
Bargholtz, William E.; and Molison, Robert E., 4,700,529, Cl. 53-399.000.

Molitor, Jerome A.: Rope-holding boat hook. 4,667,617, 5-26-87, Cl. 114-221.00R.

Molitor, Robert P.; and Melvin, Terrence, to Spalding & Evenflo Companies, Inc.: Golf ball. 4,650,193, 3-17-87, Cl. 273-228.000.

Molitor, Robert P.; Melvin, Terence; Nealon, John L.; and Dreifus, David W., to Spalding & Evenflo Companies, Inc.: Golf ball having improved playability properties. 4,674,751, 6-23-87, Cl. 273-235.00R.

Molkner, Thomas: *See*—
Burger, Kurt; Friedrich, Heinz; Molkner, Thomas; and Schottle, Peter, 4,708,769, Cl. 156-659.100.

Moll, Benjamin A., to Advanced Genetic Sciences, Inc.: Measurement of variable fluorescence of plants. 4,650,336, 3-17-87, Cl. 356-417.000.

Moll, Eberhard; Lardon, Marcel; and Muller, Edgar, to Balzers Aktiengesellschaft: Tube having strain-hardened inside coating. 4,641,450, 2-10-87, Cl. 42-76.020.

Moll, Frederic H.; Roth, Alex T.; Costa, Peter F.; and Holmes, William A., to Endotherapeutics: Trocar. 4,654,030, 3-31-87, Cl. 604-165.000.

Moll, Helmut; and Ritchie, Roger E., to Scientific Drilling International: Test circuit for detector used in well bore. 4,649,344, 3-10-87, Cl. 324-221.000.

Moll, Helmut, to Scientific Drilling International: Well information telemetry by variation of mud flow rate. 4,694,439, 9-15-87, Cl. 367-83.000.

Moll, Helmut; Wiegel, Gerd; Schindler, Josef; Scherer, Wilfried; and Marth, Kurt, to Siemens Aktiengesellschaft: Method for bonding an insulated wire element on a contact. 4,712,723, 12-15-87, Cl. 228-111.000.

Moll, Jacek, to Maroko, Peter, a part interest: Artificial heart valve. 4,661,106, 4-28-87, Cl. 623-2.000.

Moll, Karl, to Cloros Company, The: Carpet cleaner. 4,652,389, 3-24-87, Cl. 252-90.000.

Moll, Maurice M.: *See*—
Szluk, Nicholas J.; Metz, Werner A., Jr.; Miller, Gayle W.; and Moll, Maurice M., 4,647,340, Cl. 156-662.000.

Moll, Norman G.: *See*—
Houtchens, Robert A.; Cheng, Roberta C.; McCoy, Karen M.; Epstein, Carol C.; and Moll, Norman G., 4,675,292, Cl. 435-94.000.

Moll, Richard J.: Roller for glue applying folding machines. 4,650,454, 3-17-87, Cl. 493-442.000.

Moll, Robert E., to Pitney Bowes Inc.: Translatable drive apparatus. 4,699,016, 10-13-87, Cl. 74-417.000.

Mollby, Nils R.: *See*—
Kallenius, Gunilla P.; Lundblad, Karl A.; Mollby, Nils R.; Svensson, Stefan B.; and Winberg, Jan., 4,657,849, Cl. 435-7.000.

Molle, Werner H. Press, 4,675,000, 6-23-87, Cl. 493-372.000.

Mollenauer, Linn F., to AT&T Bell Laboratories: Soliton laser. 4,635,263, 1-6-87, Cl. 372-3.000.

Mollenauer, Linn F.; and Stolen, Rogers H., to American Telephone and Telegraph Company, AT&T Bell Laboratories: Optical communications system comprising Raman amplification means. 4,699,452, 10-13-87, Cl. 350-96.160.

Mollenauer, Linn F.: *See*—
Gordon, James P.; Islam, Mohammed N.; and Mollenauer, Linn F., 4,700,339, Cl. 370-3.000.

Mollenhoff, David V.: Drip coffee maker. 4,704,954, 11-10-87, Cl. 99-279.000.

Moller, Friedrich-Wilhelm; Boll, Walter; Marschner, Friedemann; and Muller, Wolf-Dieter, to Metallgesellschaft Aktiengesellschaft: Process for producing a product gas containing carbon oxides and hydrogen from methanol. 4,692,322, 9-8-87, Cl. 423-415.00A.

Moller, Geert L., to Danfoss A/S: Vent control unit for a radiator in a one pipe type steam heating system. 4,669,655, 6-2-87, Cl. 236-64.000.

Moller, Henry, to Danfoss A/S: Continuous-like actuator. 4,654,539, 3-31-87, Cl. 307-118.000.

Moller, Hermann: *See*—
Andres, Rudolf; Moller, Hermann; and Seel, Holger, 4,699,424, Cl. 297-284.000.

Moller, Hinrich, to Henkel Kommanditgesellschaft auf Aktien: Acid addition products of N-glycidyl compounds. 4,659,824, 4-21-87, Cl. 544-221.000.

Moller, Klaus: *See*—
Goldbeck, Heinz; and Moller, Klaus, 4,658,740, Cl. 112-114.000.

Moller, Reinfried, to EXPERT Maschinenbau GmbH: Apparatus having a liftable rotary table. 4,669,948, 6-2-87, Cl. 414-744.00R.

Moller, Rudolf: *See*—
Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,656,457, Cl. 378-176.000.
Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,680,436, Cl. 200-82.00E.

Moller, Werner G.: *See*—
Brunig, Matthias A. M.; and Moller, Werner G., 4,648,787, Cl. 415-72.000.

Moller, William D.: *See*—
Bills, Joseph W.; and Moller, William D., 4,701,098, Cl. 414-502.000.

Mollere, Phillip D.; Astley, Vivian C.; and Taravella, Jody J., to Freeport Research and Engineering Company: Process for seed crystal preparation for phosphoric acid crystallization. 4,657,559, 4-14-87, Cl. 23-297.000.

Mollere, Phillip D.: *See*—
Wiewiorowski, Tadeusz K.; Mollere, Phillip D.; Astley, Vivian C.; and Dyer, David M., 4,555,789, Cl. 23-297.000.

Mollering, Hans: *See*—
Elstner, Erich; Schleifer, Karl-Heinz; Gotz, Friedrich; Sedewitz, Barbara; Roder, Albert; Mollering, Hans; and Seidel, Hans, 4,666,832, Cl. 435-25.000.

Mollers Maschinenfabrik GmbH: *See*—
Klupfel, Olaf; Frielinghaus, Walter S.; and Scholz, Erhard, 4,648,646, Cl. 294-106.000.

Mollerus, Alexander: Apparatus for dewatering wet laundry. 4,633,685, 1-6-87, Cl. 68-242.000.

Mollett, Larry R.; and Goczalk, Robert W., to Hughes Aircraft Company: RF input drive saturation control loop. 4,691,173, 9-1-87, Cl. 330-144.000.

Mollier, Jean, to Cii Honeywell Bull (Societe Anonyme): Method and device for protecting software delivered to a user by a supplier. 4,683,553, 7-28-87, Cl. 380-4.000.

Mollier, Jean H., and Saada, Charles J., to Compagnie Internationale pour l'Informatique Cii-Honeywell Bull (Societe Anonyme): Process and apparatus for authenticating the signature of a signed message. 4,656,474, 4-7-87, Cl. 380-23.000.

Mollinger, Paul J.; and Kuo, Charles C., to B. F. Goodrich Company, The: Process for pelletization of powder materials and products therefrom. 4,670,181, 6-2-87, Cl. 252-186.250.

Mollison, Alistair N.: *See*—
Breck, Alan K.; and Mollison, Alistair N., 4,657,982, Cl. 525-240.000.

Mollmann, Henry C.: *See*—
Jaisle, Richard F.; Mollmann, Henry C.; Albers, Martha J.; and Burgess, James H., 4,636,443, Cl. 428-481.000.

Molloy, Leslie, to AAR Corporation: Neutron absorbing panel. 4,644,171, 2-17-87, Cl. 250-518.100.

Molloy, Edward W.: *See*—
Johnston, Albert D.; Tengowski, Joseph L.; Steele, Ernest G.; and Molloy, Edward W., 4,667,788, Cl. 192-45.003.

Molloy, Francis X.: *See*—
King, Glenn G.; and Molloy, Francis X., 4,645,476, Cl. 474-153.000.

Molloy, James J.: *See*—
Dyer, Stanley; Molloy, James J.; Nguyen, Thoi; Riherd, David M.; Voit, William F., Jr.; and West, Donald L., 4,641,148, Cl. 346-76.0PH.

Molloy, R. Michael: *See*—
Hunt, Ann H.; Molloy, R. Michael; Nagarajan, Ramakrishnan; and Schabel, Amelia A., 4,639,433, Cl. 514-8.000.

Molloy, Robert E.: *See*—
Adams, Norman S.; and Molloy, Robert E., 4,688,488, Cl. 105-253.000.

Mollura, Carlos A.: Airbed mattress including a regulated, controllable air reservoir therefor. 4,679,264, 7-14-87, Cl. 5-453.000.

Molnar, Arpad A., to Arpi Co.: Bumper beam. 4,671,550, 6-9-87, Cl. 293-120.000.

Molnar, Attila: *See*—
Vertesi, Csaba; Molnar, Attila; and Guczoghy, Lajos, 4,710,578, Cl. 558-4.000.

Molnar, Bela, to Protective Plastics Limited: Laminated panel with integral raised scuff. 4,708,899, 11-24-87, Cl. 428-60.000.

Molnar, Bela: *See*—
Nemeth, Attila; Dolozselek, Gyula; Mikics, Laszlo; Molnar, Bela S.; Illai, Mihaly; Liska, Sandor; and Speck, Gyula, 4,670,901, Cl. 379-292.000.

Molnar, Gerald, to Trillium Telephone Systems Inc.: Communications system having separate unidirectional information signalling, 4,701,948, 10-20-87, Cl. 379-165.000.

Molnar, Gyorgy: *See*—
David, Dezso; Rovo, Peter; Sipos nee Richter, Terez; Molnar, Gyorgy; Deme, Istvan; and Karnitscher, Tamas, 4,713,078, Cl. 8-94.150.

Molnar, Janos: *See*—
Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhaz nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.
Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhaz nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.

Molnar, Richard: *See*—
Scelba, Stephen S.; and Molnar, Richard, 4,646,547, Cl. 70-312.000.

Molnes, Arnfinn, to Gotaverken Arendal AB: Semi-submersible offshore vessel. 4,662,302, 5-5-87, Cl. 114-265.000.

Molnlycke AB: *See*—
Agren, Magnus; and Nordqvist, Percy, deceased; 4,685,907, Cl. 604-304.000.
Hanssen, Carl-Otto, 4,688,563, Cl. 128-132.00D.
Jungnell, Jarl O.; and Skold, Bo P., 4,648,619, Cl. 280-650.000.
Reiner, Per L., 4,675,078, Cl. 162-344.000.
Runeman, Bo, 4,710,188, Cl. 604-385.00R.
Starzmann, Martin, 4,690,137, Cl. 128-132.00D.
Widlund, Leif U. R.; and Bergdahl, Sven G., 4,634,440, Cl. 604-383.000.
Widlund, Leif U. R.; and Ternstrom, Maj I., 4,692,163, Cl. 604-385.00A.

Molnlycke Konsumentprodukter AB: *See*—
Bergenwall, Henning, 4,637,652, Cl. 297-90.000.

Moloney, John J., to Continental White Cap, Inc.: Corrosion resistant closure construction. 4,705,183, 11-10-87, Cl. 215-276.000.

Moloney, Maurice M.: *See*—
Hilliard, Jeffrey L.; and Moloney, Maurice M., 4,695,547, Cl. 435-173.000.

Molten Corporation: *See*—
Kusano, Takae; and Ueno, Masato, 4,634,381, Cl. 433-172.000.
Kusano, Takae; and Ueno, Masato, 4,634,382, Cl. 433-182.000.
Kusano, Takae; Ueno, Masato; and Hirakiuchi, Masumori, 4,654,006, Cl. 433-168.100.

Molteni, John J.: *See*—
Larson, Byron A.; and Molteni, John J., 4,643,015, Cl. 72-305.000.
Larson, Byron A.; and Molteni, John J., 4,700,559, Cl. 72-461.000.

Molter, Michael: *See*—
Kleiner, Hans-Jerg; Kloss, Gerhard; Molter, Michael; Schwarz, Alexander; and Thamm, Horst-Dieter, 4,693,884, Cl. 424-1.100.

Molus, Richard J., Sr.: *See*—
Erbe, Raymond A.; Molus, Richard J., Sr.; Barnak, James; and Henson, Mark L., 4,699,455, Cl. 350-96.200.

Molyneux, David J.: *See*—
Brown, Ian C.; Hedge, Roger W.; and Molyneux, David J., 4,696,313, Cl. 131-291.000.
Brown, Ian C.; Hedge, Roger W.; and Molyneux, David J., 4,697,604, Cl. 131-296.000.

Molyneux, Jeffrey P.: *See*—
Archer, Joel; Wasschhove, Denis V.; Pithouse, Kenneth B.; Buck, Leslie J.; Molyneux, Jeffrey P.; and Bradshaw, Peter S., 4,709,948, Cl. 285-381.000.

Molz, Theodor, to W. Eckold AG: Apparatus for bending tubular workpieces. 4,712,406, 12-15-87, Cl. 72-23.000.

Molzahn, Herbert W.: *See*—
Remillard, Rheal; and Molzahn, Herbert W., 4,660,361, Cl. 56-297.000.

Momata, Kazuhiro; Dekura, Yoshinori; Hozawa, Tadashi; and Matsushige, Hiromi, to Hitachi, Ltd.: Magnetic head assembly. 4,695,909, 9-22-87, Cl. 360-122.000.

Mombelli, Paul, to MER/I.C.B.: Electromechanical lock actuable simultaneously by several programmable codes, by one or more users and whose eccentric for unlocking the bolt is eccentrically mounted directly on the motor shaft. 4,672,826, 6-16-87, Cl. 70-278.000.

Momchilov, Emil N.: *See*—
Balevski, Angel T.; Nikolov, Ivan D.; Momchilov, Emil N.; Bacharov, Rumen D.; Ostrovski, Vassil N.; Nikolchov, Alexander S.; Stoyanov, Peyo T.; Petrov, Valentin G.; and Lyubenov, Toshko K., 4,671,342, Cl. 164-458.000.

Momiyama, Kikuo; and Someya, Hiromi, to Canon Kabushiki Kaisha: Finder optical system for a camera. 4,664,485, 5-12-87, Cl. 350-410.000.

Momiyama, Kikuo: *See*—
Kitagishi, Nozomu; Momiyama, Kikuo; Ikemori, Keiji; Takahashi, Sadatoshi; and Tanaka, Tsunefumi, 4,639,096, Cl. 350-427.000.
Kitagishi, Nozomu; Takahashi, Sadatoshi; Ikemori, Keiji; Momiyama, Kikuo; and Tanaka, Tsunefumi, 4,695,133, Cl. 350-427.000.

Matsushita, Takashi; Takahashi, Sadatoshi; Ikemori, Keiji; Kitagishi, Nozomu; Tanaka, Tsunefumi; and Momiyama, Kikuo, 4,711,534, Cl. 350-426.000.
Tanaka, Tsunefumi; Ikemori, Keiji; Kitagishi, Nozomu; Takahashi, Sadatoshi; and Momiyama, Kikuo, 4,666,257, Cl. 350-427.000.
Momiyama, Kimio: *See*—
Uchikawa, Fusaoki; Takeuchi, Morihisa; Shimamoto, Kozo; Miyao, Kunihiko; Momiyama, Kimio; and Watarai, Hisao, 4,673,910, Cl. 338-35.000.
Momiyama, Motokazu: *See*—
Nakamura, Naotaka; Miyamoto, Yoshimi; Momiyama, Motokazu; Tsuba, Toshiji, deceased; Teratani, Tatsuo; and Ishihara, Nobuyuki, 4,652,705, Cl. 200-19.00R.
Momma, Naohiro: *See*—
Yatsuo, Tsutomu; Momma, Naohiro; Naito, Masayoshi; and Okamura, Masahiro, 4,682,199, Cl. 357-38.000.
Mommsen, Gordon V.; Fender, Norman N.; Karwoski, Stanley G.; Scherer, William C.; and Lind, Robert J., to Graco Inc. Robot spray gun, 4,679,734, 7-14-87, Cl. 239-692.000.
Mommsen, Gordon V., to Graco Inc. Electrostatic field indicator light for electrostatic nozzles, 4,682,735, 7-28-87, Cl. 239-690.000.
Momodomi, Masaki: *See*—
Iwahashi, Hiroshi; Asano, Masamichi; Momodomi, Masaki; Minagawa, Hidenobu; Suzuki, Kazuto; and Narita, Akira, 4,697,101, Cl. 307-452.000.
Momoi, Shoji; and Inami, Sumiaki, to Yamazaki Machinery Works Ltd. Multiface machining machine tool, 4,679,286, 7-14-87, Cl. 29-33.00P.
Momoki, Motoyasu: *See*—
Takahara, Masayuki; and Momoki, Motoyasu, 4,692,824, Cl. 360-55.000.
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Momose, Kaoru: *See*—
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Momose, Atsushi: *See*—
Asano, Yuichiro; Kono, Yoshihisa; Yanagimoto, Takayuki; Shiozumi, Motoji; Takahashi, Kunio; Torao, Akira; Moriya, Susumu; and Momose, Atsushi, 4,708,882, Cl. 427-1.000.
Momose, Masanori: *See*—
Suzuki, Masayuki; Nishiwaki, Shoji; Hayashima, Toshitaka; Uezu, Kazuo; Maehara, Hidejirou; and Momose, Masanori, 4,683,478, Cl. 346-76.0PH.
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Kobayashi, Daisaku; Itaba, Tunesaku; and Momose, Yutaka, 4,691,591, Cl. 74-606.00A.
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Momose, Yuya, to NEC Corporation. Data processing unit diagnosis control apparatus, 4,703,446, 10-27-87, Cl. 364-580.000.
Monat, Stanley; and Hannon, William G., to Rockwell International Corporation. Plate cylinder register control, 4,709,634, 12-1-87, Cl. 101-248.000.
Mon-A-Therm, Inc.: *See*—
Kneusar, Joseph F.; Mohrman, Raymond F.; and Gundlach, Philip M., Jr., 4,669,049, Cl. 364-557.000.
Mon, George, to United States of America, Army. Fluid property measuring device, 4,644,781, 2-24-87, Cl. 73-55.000.
Mon, George, to United States of America, Army. Fluidic complementary gain changing circuit, 4,678,009, 7-7-87, Cl. 137-818.000.
Mon, George, to United States of America, Army. Variable linear resistor, 4,691,187, 9-1-87, Cl. 338-114.000.
Monacelli, Umberto. Magazine for fasteners in coiled form, 4,669,648, 6-2-87, Cl. 227-109.000.
Monacelli, Walter J.: *See*—
Waller, Francis E., 4,638,547, Cl. 29-558.000.
Waller, Francis E., 4,639,173, Cl. 409-122.000.
Monaghan, Michael L., to Ricardo Consulting Engineers plc. Fuel supply system for turbocharged internal combustion engine, 4,708,676, 12-1-87, Cl. 123-383.000.
Monaghan, Richard L.; Goetz, Michael A.; and Chang, Raymond S., to Merck & Co., Inc. Process for the preparation of cholecystokinin antagonists, 4,695,544, 9-22-87, Cl. 435-119.000.
Monaghan, Richard L.: *See*—
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Wilson, Kenneth E.; Monaghan, Richard L.; DeRiso, Cheryl; Zimmerman, Sheldon B.; Hensens, Otto D.; Flor, James E.; Del Val, Sagrario M.; and Fernandez, Maria I. M., 4,681,846, Cl. 435-124.000.
Monaghan, William A.; and Shook, James M., to Tandem Computers Incorporated. Structural support and thin panel assembly, 4,650,263, 3-17-87, Cl. 312-265.000.
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Monahon, Brian J. Randomly and integrally re-keyable lock apparatus and method, 4,712,401, 12-15-87, Cl. 70-382.000.
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Fuller, Clyde R.; Pollack, Gordon P.; Eklund, Robert H.; and Monahan, Dave, 4,659,426, Cl. 156-643.000.
Monahan, John F.: *See*—
Moorman, Michael C.; and Monahan, John F., 4,689,808, Cl. 377-60.000.
Monahan, Michael B.: *See*—
Elliott, James O.; and Monahan, Michael B., 4,678,973, Cl. 318-254.000.
Monarch Aviation, Inc.: *See*—
Perkins, John W., 4,680,891, Cl. 49-280.000.
Monarch Machine Tool Co.: *See*—
Bradlee, Charles R., 4,635,458, Cl. 72-165.00.
Monarch Marking Systems, Inc.: *See*—
Duchin, Daniel, 4,634,036, Cl. 227-67.000.
Duchin, Daniel, 4,671,442, Cl. 227-40.000.
Duchin, Daniel, 4,681,248, Cl. 227-73.000.
Duchin, Daniel, 4,682,721, Cl. 227-67.000.
Duchin, Daniel, 4,683,635, Cl. 29-432.000.
Duchin, Daniel, 4,711,369, Cl. 221-213.000.
Goubeaux, Donald E., 4,636,097, Cl. 400-196.100.
Goubeaux, Donald E.; and Milier, Richard A., 4,693,151, Cl. 83-23.000.
Hamisch, Paul H., Jr., 4,680,081, Cl. 156-384.000.
Hamisch, Paul H., Jr.; Makley, James A.; Pabodie, Robert M.; and Strausburg, Larry D., 4,690,317, Cl. 227-67.000.
Hamisch, Paul H., Jr., 4,690,723, Cl. 156-541.000.
Heaton, Richard D.; and Linton, Steven C., 4,649,397, Cl. 343-895.000.
Huggins, Orville C., 4,635,547, Cl. 101-292.000.
Mistyurik, John D., 4,668,326, Cl. 156-384.000.
Strausburg, Larry D., 4,673,120, Cl. 227-67.000.
Strausburg, Larry D., 4,696,422, Cl. 227-39.000.
Strausburg, Larry D., 4,706,362, Cl. 29-432.000.
Strausburg, Larry D., 4,715,521, Cl. 227-67.000.
Vanderpool, James L.; and Bain, James M., 4,680,078, Cl. 156-352.000.
Wisecup, David R.; and Keefe, Jack D., 4,670,950, Cl. 24-150.00R.
Wisecup, David R., 4,680,836, Cl. 24-150.0FP.
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Loos, Bruce J., 4,667,503, Cl. 73-3.000.
Monarch Tool & Manufacturing Company: *See*—
Hall, Mitchell A., 4,640,405, Cl. 194-235.000.
Monash University: *See*—
Short, Roger V.; and Armstrong, Stuart, 4,665,086, Cl. 514-416.000.
Tobin, Roderick C.; and Perry, Nigel D., 4,641,313, Cl. 372-56.000.
Monastyrskaya, Galina S.: *See*—
Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.
Monbaron, Jean-Jacques: *See*—
Bui, Ngoc C.; Michel, Jean-Georges; and Monbaron, Jean-Jacques, 4,635,286, Cl. 381-43.000.
Moncalvo, Agostino: *See*—
Fausone, Alfredo; and Moncalvo, Agostino, 4,716,587, Cl. 380-10.000.
Monceaux, Philippe: *See*—
Segard, Emile; and Monceaux, Philippe, 4,636,390, Cl. 426-18.000.
Monch, Hans: *See*—
Sacks, Dieter; and Monch, Hans, 4,663,798, Cl. 15-261.000.
Sacks, Dieter; and Monch, Hans, 4,704,763, Cl. 15-262.000.
Monch, Harry: *See*—
Hengstberger, Maria; Hengstberger, Herbert; and Monch, Harry, 4,633,865, Cl. 128-303.00R.
Monch, Heiner, to American Standard Inc. Mixing valve assembly, 4,706,709, 11-17-87, Cl. 137-597.000.
Monchalin, Jean-Pierre, to Canadian Patents and Development Limited-Societe Canadienne des Brevets et d'Exploitation Limitee. Laser heterodyne interferometric method and system for measuring ultrasonic displacements, 4,633,715, 1-6-87, Cl. 73-657.000.
Monchalin, Jean-Pierre, to Canadian Patents and Development Limited. Optical interferometric reception of ultrasonic energy, 4,659,224, 4-21-87, Cl. 356-352.000.
Moncheaux, Michel J.: *See*—
Bravet, Jean L.; Colmon, Daniel; Daude, Gerard; and Moncheaux, Michel J., 4,652,494, Cl. 428-423.100.
Bravet, Jean L.; Colmon, Daniel; Daude, Gerard; and Moncheaux, Michel J., 4,671,838, Cl. 156-246.000.
Moncrief, Jack W.: *See*—
Popovich, Robert P.; and Moncrief, Jack W., 4,661,092, Cl. 604-26.000.
Popovich, Robert P.; and Moncrief, Jack W., 4,673,385, Cl. 604-28.000.
Mondain-Monval, Gerard: *See*—
Delacour, Pierre; Prost, Roger; and Mondain-Monval, Gerard, 4,646,525, Cl. 62-54.000.
Monday, Richard D.: *See*—
Subramanian, Mahadevan; Monday, Richard D.; Johnson, David B.; and Kleinschrodt, Frank J., 4,673,490, Cl. 208-354.000.

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Hall, Charles B.; and Mondek, Martin J., 4,682,759, Cl. 251-210.000.

Mondek, Matthew H.; and Neal, Louis R., to Outboard Marine Corporation. Marine propulsion device crankshaft bearing arrangement. 4,697,556, 10-6-87, Cl. 123-195.0HC.

Mondeshka, Donka M.: *See*—
Ivanov, Chavdar B.; Mondeshka, Donka M.; Berova, Nikolina D.; Rakovska, Rossitza S.; Panova, Yordanka T.; Markov, Marko T.; Ovcharov, Radi G.; Usunov, Petko D.; and Zabunova, Orhideya B., 4,678,853, Cl. 546-146.000.

Mondin, Myriam: *See*—
Erilli, Rita; and Mondin, Myriam, 4,671,895, Cl. 252-552.000.

Mondini, Giancarlo; Hefti, Walter; and Kaufmann, Siegfried, to Maschinenfabrik Rieter AG. Drafting mechanism for spinning machines. 4,641,397, 2-10-87, Cl. 19-258.000.

Mondloch, Michael J.; and Skover, Nick, Jr., to Applied Power Inc. Exercise apparatus. 4,705,271, 11-10-87, Cl. 272-130.000.

Mondon, Cary G.: *See*—
Schwendemann, Kenneth L.; McCracken, Oliver W.; Mondon, Cary G.; and Wortham, Larry C., 4,636,934, Cl. 364-132.000.

Mondor, Edward J., III, to Woven Electronics Corporation. Flat woven cable for insulation displaceable connector termination and method. 4,712,298, 12-15-87, Cl. 29-861.000.

Monec S.A.: *See*—
Brisebarre, Marcel, 4,677,811, Cl. 53-456.000.

Monell Chemical Senses Center: *See*—
Cutler, Winnifred B.; Preti, George; and Huggins, George R., 4,670,401, Cl. 436-65.000.
Johnsen, Peter B.; and Adams, Michael A., 4,693,897, Cl. 426-2.000.

Monen, Marinus J. B. M.: *See*—
Furukawa, Shunsuke; Suzuki, Tadao; and Monen, Marinus J. B. M., 4,641,295, Cl. 369-32.000.

Monestier, Jacques, to Compagnie Generale de Participations, S.A., a part interest. Total hand prostheses. 4,685,929, 8-11-87, Cl. 623-64.000.

Monet, Paul E.; and Dufresne, Yves, to Harris Corporation. Method and apparatus for automatic dialing in mobile radio telephone systems. 4,674,111, 6-16-87, Cl. 379-58.000.

Moneta, Ted C. Wind shelter. 4,685,484, 8-11-87, Cl. 135-117.000.

Monett, Edward. Springless diaphragms and method of producing same. 4,640,272, 2-3-87, Cl. 128-127.000.

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Stanley, Robert W.; Harris, G. Bryn; and Monette, Serge, 4,670,052, Cl. 75-118.00R.

Money, Dudley P.: *See*—
Seshamani, Venkatraman; and Money, Dudley P., 4,712,938, Cl. 403-24.000.

Monfort, Guy; Crahay, Jean; and Bragard, Adolphe, to Centre de Recherches Metallurgiques-Centrum voor Research in de Metallurgie. Surface treatment of a rolling mill roll. 4,679,288, 7-14-87, Cl. 29-121.800.

Monforte, Mathew L., to Monforte Robotics, Inc. Robotic collision sensors and compliance devices. 4,678,231, 1-20-87, Cl. 318-640.000.

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Monforte, Mathew L., 4,638,231, Cl. 318-640.000.

Mongeau, Peter: *See*—
Clarkson, Bruce A.; Frere, Ronald J.; Loughlin, Thomas G.; Taylor, William W., Jr.; and Mongeau, Peter, 4,712,398, Cl. 70-276.000.

Mongeau, Peter P., to Electromagnetic Launch Research, Inc. Iron-free rotary disk electrical machine. 4,691,133, 9-1-87, Cl. 310-178.000.

Mongeon, Douglas R., to Minnesota Mining and Manufacturing Company. Bone stapler. 4,648,541, 3-10-87, Cl. 227-19.000.

Mongeon, Robert J.; Wayne, Robert J.; and Henschke, Robert W., to United States of America, Army. Optical radar transceiver control apparatus. 4,716,441, 12-29-87, Cl. 356-05.000.

Monget, Francois J. R.: *See*—
Cahuzac, Georges J. J.; and Monget, Francois J. R., 4,644,619, Cl. 28-100.000.
Cahuzac, Georges J. J.; and Monget, Francois J. R., 4,656,703, Cl. 28-100.000.

Mongiello, Angelo A., Sr.: *See*—
Mongiello, Anthony T.; Mongiello, Lawrence A., Sr.; and Mongiello, Angelo A., Sr., 4,661,361, Cl. 426-283.000.

Mongiello, Anthony T.; Mongiello, Lawrence A., Sr.; and Mongiello, Angelo A., Sr. Method of making a pizza. 4,661,361, 4-28-87, Cl. 426-283.000.

Mongiello, Lawrence A., Sr.: *See*—
Mongiello, Anthony T.; Mongiello, Lawrence A., Sr.; and Mongiello, Angelo A., Sr., 4,661,361, Cl. 426-283.000.

Mongin, Roger: *See*—
Kling, Bernard; Mongin, Roger; and Leguennec, Michel, 4,673,245, Cl. 350-96.200.

Monheim, Peter; and Stadtfeld, Gerhard, to Mannesmann AG. Width adjustment of molds for continuously casting slab ingots. 4,702,303, 10-27-87, Cl. 164-491.000.

Monia, Victor, to Visa Technologies, Inc. Laminated head cleaning disk. 4,704,648, 11-3-87, Cl. 360-128.000.

Monica, Lisa R.: *See*—
Paperno, Steven H.; and Monica, Lisa R., 4,684,264, Cl. 368-283.000.

Monicell Limited: *See*—
Senior, John M.; and Cusworth, Stewart D., 4,670,649, Cl. 250-227.000.

Monico, Dominick L.: *See*—
Van Malderghem, Edmund G.; Monico, Dominick L.; and Anderson, Michael W., 4,705,298, Cl. 282-11.50A.

Monier, Jean: *See*—
Bourrelly, Paul; Monier, Jean; Patin, Henri; Sanson, Charles; and Schoepp, Robert, 4,658,251, Cl. 340-820.170.

Monier, Jean-Claude: *See*—
Thominet, Michel; Acher, Jacques; and Monier, Jean-Claude, 4,673,686, Cl. 514-359.000.

Monier, John L., to Tri-X Corporation. Sealant composition and leak detector for automobile cooling systems and the like. 4,662,940, 5-5-87, Cl. 106-33.000.

Monier Limited: *See*—
Tomlinson, Robert K., 4,655,602, Cl. 366-56.000.

Monsot, Jerome L.; Cimarusti, Christopher M.; and Fox, Rita T., to E. R. Squibb & Sons, Inc. Process for the preparation of (3S)-3-[[[2-(protected amino)-4-thiazolyl]-oxoacetyl]amino]-2-oxo-1-azetidinesulfonic acid and 4-substituted derivatives thereof. 4,704,457, 11-3-87, Cl. 540-355.000.

Moniotte, Philippe G.: *See*—
Delseith, Jean-Marc; Mauer, Daniel E.; and Moniotte, Philippe G., 4,704,334, Cl. 428-458.000.
Devaux, Albert F. L. G.; and Moniotte, Philippe G., 4,657,956, Cl. 524-105.000.
Devaux, Albert F. L. G.; and Moniotte, Philippe G., 4,665,155, Cl. 528-299.000.
Mauer, Daniel E.; and Moniotte, Philippe G., 4,654,271, Cl. 428-465.000.

Monitor Manufacturing Company: *See*—
Hitson, Herbert A., 4,634,184, Cl. 297-468.000.

Monitronik Ltee: *See*—
Taylor, Frank S.; and Bourdon, Claude, 4,682,432, Cl. 40-573.000.

Moniwa, Masahiro; Warabisako, Terunori; and Sunami, Hideo, to Hitachi, Ltd. Process for manufacturing semiconductor devices containing microbridges. 4,692,994, 9-15-87, Cl. 437-40.000.

Monji, Hideto: *See*—
Kuribayashi, Kiyoshi; Sakai, Masayuki; Monji, Hideto; Aoki, Masaki; Okimaka, Hideyuki; and Torii, Hideo, 4,685,948, Cl. 65-26.000.

Monk, Trevor K., to STC PLC. Semiconductor memories. 4,663,739, 5-5-87, Cl. 365-154.000.

Monka, Edouard, to Etablissements Maurice Maillard. Freewheel for a cycle or the like. 4,639,241, 1-27-87, Cl. 474-902.000.

Monma, Hideo; Ishiguro, Masato; and Kawano, Tetsuo, to Fujitsu Limited. Gate array. 4,692,783, 9-8-87, Cl. 357-42.000.

Monma, Hideo: *See*—
Enomoto, Yoshinori; Monma, Hideo; Ohta, Shunzo; and Sasaki, Takeshi, 4,703,483, Cl. 371-24.000.

Monma, Masao: *See*—
Katsurai, Junji; Monma, Masao; and Takaku, Tetsuo, 4,679,053, Cl. 346-1.100.

Monma, Yoshiyuki: *See*—
Miyakawa, Tadashi; Monma, Yoshiyuki; Rikiishi, Yuji; and Seto, Hideo, 4,665,303, Cl. 219-216.000.

Monnais, Christian; and Cotteret, Jean, to L'Oreal. Tinctorial composition for keratin fibres, based on nitrated benzene dyestuffs. 4,637,821, 1-20-87, Cl. 8-415.000.

Monnais, Christian: *See*—
Grollier, Jean-Francois; Monnais, Christian; and Peritz, Lyonel, 4,645,663, Cl. 424-62.000.

Monnatte, Henri J.: *See*—
Chizallet, Pierre J.; Drevet, Jean C.; Monnatte, Henri J.; Meillant, Henri P.; and Taillandier, Yves J., 4,672,544, Cl. 364-414.000.

Monnerat, Georgia A.: *See*—
Bogan, Gary W.; Lucas, Peter A.; and Monnerat, Georgia A., 4,701,481, Cl. 523-428.000.
Bogan, Gary W.; Lucas, Peter A.; Monnerat, Georgia A.; and Aldrich, Dale J., 4,710,429, Cl. 428-417.000.

Monneraye, Marc A.: *See*—
Baudry, Hugues; Monneraye, Marc A.; and Morhaim, Claude, 4,636,257, Cl. 106-19.000.

Monnier, Charles E.; and Zahir, Sheik Abdul-Cader, to Ciba-Geigy Corporation. Polyepoxides and the use thereof. 4,677,170, 6-30-87, Cl. 525-539.000.

Monnier, Charles E.: *See*—
Darms, Roland; and Monnier, Charles E., 4,649,181, Cl. 525-524.000.

Monnig, Kenneth A.; and Quint, David W., to Hewlett-Packard Company. Method for applying a uniform coating to integrated circuit wafers by means of chemical deposition. 4,696,833, 9-29-87, Cl. 437-225.000.

Monno, Asao; Watanabe, Kiyoo; and Kaneko, Kazuyuki, to Fuji Electric Co., Ltd.; Fuji Facom Corporation; and Kawasaki Steel Corporation. Tubular part wall thickness measuring device. 4,695,728, 9-22-87, Cl. 250-358.100.

Mono Power Co.: *See*—
Wong, Morton M.; and Shugarman, Arnold L., 4,710,367, Cl. 423-335.000.

Monobe, Hisanobu: *See*—
Akiyama, Setsuo; Fukuura, Yukio; Yoshikawa, Masato; Matsuda, Takeyuki; Monobe, Hisanobu; Ohkubo, Shigeki; and Yoshida, Shiro, 4,657,285, Cl. 285-256.000.

Monogram Industries, Inc.: *See*—
Pratt, John D.; and Morrow, Joseph F., 4,659,271, Cl. 411-43.000.
Pratt, John D., 4,659,272, Cl. 411-43.000.
Pratt, John D.; and Belanger, Victor, 4,681,494, Cl. 411-54.000.

Razavi, Fereidoon, 4,713,645, Cl. 337-246.000.
...nolithic Memories, Inc.: *See*—
Bosnyak, Bob; Chan, Albert; Fitzpatrick, Mark; Gouldsberry, Gary; Tsui, Cyrus; and Chan, Andrew K., 4,670,708, Cl. 324-51.000.
Chan, Albert; Fitzpatrick, Mark; Goddard, Don; Bosnyak, Robert J.; and Tsui, Cyrus, 4,701,695, Cl. 324-510.000.
Chan, Andrew K., 4,638,243, Cl. 324-51.000.
Chua, H. T.; Tsui, Cyrus; Chan, Albert; and Gouldsberry, Gary, 4,654,830, Cl. 365-200.000.
France, Michael G.; Geannopoulos, George L.; Bosnyak, Robert J.; and Chan, Steve Y., 4,684,826, Cl. 307-272.00A.
Geannopoulos, George; Tsui, Cyrus; Fitzpatrick, Mark; and Chan, Andy, 4,638,189, Cl. 307-465.000.
Gouldsberry, Gary; Chan, Albert; Tsui, Cyrus; and Fitzpatrick, Mark, 4,634,898, Cl. 307-456.000.
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Tavana, Danesh; and Wong, Sing Y., 4,698,525, Cl. 307-456.000.
Tsui, Cyrus; Chan, Andrew K. L.; Chan, Albert; Fitzpatrick, Mark F.; Ansari, Zahid; and Hughes, Harry, 4,684,830, Cl. 307-465.000.
Wong, Sing Y., 4,645,953, Cl. 307-466.000.
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...nomakhoff, Nicolas: *See*—
Carminati, Armelle; de Buyer, Edouard; Monomakhoff, Nicolas; and Chanut, Roland, 4,639,955, Cl. 5-81.00B.
...nsan Corporation: *See*—
Banerjea, Tara N., 4,685,721, Cl. 296-181.000.
...nonal, Inc.: *See*—
Lehman, Michael E., 4,694,409, Cl. 364-558.000.
...nreal, F. Javier: Knee bindings compatible with ordinary water skis, 4,648,849, 3-10-87, Cl. 441-70.000.
...nreal, F. Javier: Kneeling skis with handles, 4,676,521, 6-30-87, Cl. 280-606.000.
...nreal, F. Javier: Water g'iding scooter board, 4,678,444, 7-7-87, Cl. 441-65.000.
...nreal, F. Javier: Water and snow wishbone shaped sled for one or ..., 4,678,445, 7-7-87, Cl. 441-72.000.
...nroe Auto Equipment Company: *See*—
Bethell, Michael R.; Gaines, Michael G.; Mowat, James F., Jr.; Wheeler, Roger D.; and Wodke, Richard P., 4,712,353, Cl. 53-80.000.
...nroe, Carl M.: *See*—
Lamont, Peter; Monroe, Carl M.; and Skostins, Olgerts, 4,701,491, Cl. 524-493.000.
...nroe, Lusbert L.: *See*—
Bills, Randall C.; Bumgardner, Teddy E.; Monroe, Lusbert L.; and Zimmermann, Jeffery D., 4,708,222, Cl. 187-1.00R.
...nroe, Robert C., to Hudson Products Corporation: Axial flow fans, 4,634,341, 1-6-87, Cl. 415-129.000.
...nroe, Roy K.: *See*—
Everhard, Paul R.; and Monroe, Roy K., 4,707,908, Cl. 29-526.00R.
...nroy, Enrique A., to Dentsply Research & Development Corp.: Rapid denture technique, 4,681,543, 7-21-87, Cl. 433-196.000.
...nroy, Gerard: *See*—
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...ns, Barend; Flowers, Donald H.; and Henderson, Robert L., to General Dynamics Corp./Convair Division: Feature navigation system and method, 4,700,307, 10-13-87, Cl. 364-453.000.
...nsanto Company: *See*—
Alt, Gerhard H.; Chupp, John P.; and Clizbe, Lane A., 4,665,228, Cl. 564-152.000.
Bach, Hartwig C., 4,645,798, Cl. 525-192.000.
Baer, Massimo, 4,707,513, Cl. 524-504.000.
Balthazor, Terry M.; and Pulwer, Mitchell J., 4,654,429, Cl. 558-145.000.
Beestman, George B., 4,640,709, Cl. 71-100.000.
Bentle, Larry A.; Mitchell, James W.; and Storrs, Stephen B., 4,652,630, Cl. 530-344.000.
Bentle, Larry A.; Mitchell, James W.; Storrs, Stephen B.; and Shimamoto, Grant T., 4,694,073, Cl. 530-399.000.
Birum, Gail H.; Mathis, Thomas C.; and Stolk, Richard D., 4,639,480, Cl. 524-104.000.
Blyth, Randolph C.; and Ucci, Pompeio A., 4,680,212, Cl. 428-97.000.
Cartier, George E.; and Farmer, Peter H., 4,654,179, Cl. 264-176.100.
Chamberlin, John M.; Chilvers, Edward W., Jr.; Nunning, Walter J.; and Southern, John H., 4,646,514, Cl. 57-288.000.
Chan, Albert S. C., 4,678,662, Cl. 424-57.000.
Chou, Shine K., 4,696,772, Cl. 260-502.50F.
Coleman, James P., 4,663,432, Cl. 528-398.000.
Coleman, James P.; Hallcher, Richard C.; and McMackins, Dudley E., 4,672,140, Cl. 560-262.000.
Coleman, James P.; Kvakovszky, George; and Sikora, David J., 4,673,508, Cl. 210-698.000.
Coran, Aubert Y.; and Endter, Cynthia K., 4,661,554, Cl. 524-504.000.
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Dempsey, Barry J., 4,662,778, Cl. 404-35.000.
Dhingra, Om P.; Franz, John E.; and Hakes, Harrison R., 4,634,788, Cl. 558-145.000.
Dolan, Michael J.; Rapko, John N.; and Morgenthaler, William W., 4,645,623, Cl. 252-558.000.
Dolan, Michael J.; Rapko, John N.; and Morgenthaler, William W., 4,687,593, Cl. 252-182.000.
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Dwek, Raymond A.; and Rademacher, Thomas W., 4,659,659, Cl. 435-18.000.
Flory, Thomas A., 4,677,848, Cl. 73-146.000.
Franz, John E.; and Kaufman, Robert J., 4,652,297, Cl. 71-87.000.
Franz, John E., 4,659,860, Cl. 558-231.000.
Fung, Bill S. K.; and Hrutfiord, Bjorn F., 4,691,061, Cl. 568-432.000.
Geimer, Raymond C.; and Tolbert, William R., 4,639,422, Cl. 435-286.000.
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Gomez, I. Luis, 4,704,418, Cl. 524-141.000.
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Hallcher, Richard C.; and Zeable, Zane V., 4,647,350, Cl. 204-59.00F.
Hilton, Glenn B.; and Robertson, Wayne W., 4,716,196, Cl. 525-72.000.
Ho, Sa Van, 4,645,829, Cl. 530-344.000.
Hovey, Leonard L.; Mathews, Marion J., III; and Peoples, P. Robert, 4,639,539, Cl. 558-363.000.
Jones, William J.; and Mendelson, Robert A., 4,663,389, Cl. 525-67.000.
Kaufmann, John E., Jr., 4,664,697, Cl. 71-92.000.
Keppel, Robert A.; and Franchetti, Victoria M., 4,670,415, Cl. 502-209.000.
Knapczyk, Jerome W., 4,670,308, Cl. 427-350.000.
Korb, Harold W.; Reed, Claudia P.; and Shaw, Roger W., 4,666,532, Cl. 148-1.500.
Kraus, Menahem A.; and Murphy, Milton K., 4,710,204, Cl. 55-16.000.
Lannert, Kent P.; and Lee, Sum-Muk, 4,704,465, Cl. 558-346.000.
Lavengood, Richard E.; Padwa, Allen R.; and Harris, Alva F., 4,713,415, Cl. 525-06.000.
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Lee, Len F., 4,692,184, Cl. 71-94.000.
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May, Bronislav A.; and Nijs, Hubert H., 4,652,403, Cl. 252-526.000.
McAlister, Donald R.; and Ziebold, Steven A., 4,670,242, Cl. 423-522.000.
McAlister, Donald R., 4,689,127, Cl. 204-147.000.
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Miller, William H.; and Taylor, William D., 4,694,082, Cl. 544-385.000.
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Nathan, Vaidy R.; Wang, John T.; and Downes, James E., 4,690,809, Cl. 423-306.000.
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Pulwer, Mitchell J.; and Gaertner, Van R., 4,650,613, Cl. 260-502.50F.
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Randall, Leslie I., 4,664,004, Cl. 83-125.000.
Richard, Thomas J.; and Miller, William H., 4,684,483, Cl. 260-502.50F.
Richardson, John C.; and Salame, Morris, 4,696,865, Cl. 428-474.400.
Santer, J. Owen, 4,634,738, Cl. 525-162.000.
Shen, Chung Y., 4,666,636, Cl. 260-512.00R.
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Tjoeng, Foe S.; Fok, Kam F.; and Adams, Steven P., 4,716,147, Cl. 514-11.000.
Tou, Jacob S.; and Vineyard, Billy D., 4,677,220, Cl. 560-40.000.
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Monsell, Kurt, to Acme Electric Corporation. Battery charger spark suppressor. 4,682,262, 7-21-87, Cl. 361-6.000.
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Monser, George J.: *See*—
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Monsigny, Jean, to Aciers et Outillage Peugeot. Buckle in particular for a safety belt. 4,677,716, 7-7-87, Cl. 24-641.000.
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Monsigny, Michel; and Mayer, Roger, to Centre National de la Recherche Scientifique. Water-soluble acylated derivatives of peptides or amino acids, their preparation and their use. 4,703,107, 10-27-87, Cl. 530-330.000.
Monson, Clifford L. Rotary cleaner/scrubber mechanism. 4,692,959, 9-15-87, Cl. 15-320.000.
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Stogryn, Eugene L.; Ho, W.S. Winston; and Montagna, Angelo A., 4,665,195, Cl. 548-523.000.
Tauster, Samuel J.; Montagna, Angelo A.; Steger, John J.; Fung, Shun C.; and Cross, Virginia R., 4,634,517, Cl. 208-138.000.
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Montagu, Jean I., to General Scanning, Inc. Mount for attaching an optical element to a rotating shaft. 4,655,543, 4-7-87, Cl. 350-6.600.
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Montalbano, Anthony J., to Amerace Corporation. Method and apparatus for making a tool. 4,633,567, 1-6-87, Cl. 29-445.000.
Montalbano, Peter, to Minnesota Mining and Manufacturing Company. Electrical terminal. 4,692,122, 9-8-87, Cl. 439-882.000.
Montaldi, David H. Sterilization method and apparatus. 4,700,701, 10-20-87, Cl. 128-303.170.
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Montanari, Gerard M.; Baudelot, Francis E.; and Costes, Michel L., to International Business Machines Corporation. Device for performing wrap tests on a multiplex link in a data communication system. 4,695,997, 9-22-87, Cl. 370-13.000.
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Montanye, Richard D.: *See*—
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Montaut Jean P.: *See*—
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Montavon, John I.: *See*—
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Colle, Roberto; Camaggi, Giovanni; Gozzo, Franco; Visentin, Walter; and Mirenna, Luigi, 4,704,398, Cl. 514-383.000.
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Credali, Lino; Corsi, Gianfranco; and Chiolle, Antonio, 4,710,336, Cl. 264-171.000.
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Marchionni, Giuseppe; and Viola, Gian T., 4,668,357, Cl. 204-157.920.
Marraccini, Antonio; Carlini, Filippo M.; Bottaccio, Giorgio; Pasquale, Antonio; and Maranzana, Giorgio, 4,655,843, Cl. 106-308.00B.
Marraccini, Antonio; Carlini, Filippo M.; Pasquale, Antonio; and Fontevivo, Michele, 4,684,408, Cl. 106-300.000.
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Palla, Ottorino; Gozzo, Franco; and Radice, Marco, 4,685,954, Cl. 71-90.000.
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ontefiore Hospital: *See*—
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ontefusco, Oscar V.: *See*—
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onteil, Andre J.; Simond, Jacques A.; and Combourieu, Michel, to Riom Laboratoires C.E.R.M. "RL-Cerm"S.A. 2-(N-pyrrolidino)-3-sobutoxy-n-substituted-phenyl-n-benzyl-propylamines, their prepa ration and pharmaceutical use, 4,645,778, 2-24-87, Cl. 514-422.000.
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onteith, Robert C.; and Borgmann, Robert E., to Cincinnati Milacron nc. Laser wrist. 4,695,701, 9-22-87, Cl. 219-121.0LV.
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ontermini, Uber: *See*—
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ontgerard, William E. Mobile band instrument repair shop. 4,643,476, 7-87, Cl. 296-24.00R.
ontgieux, Francois F. Device for continuously detecting the breath-rhythm, in particular with a view to preventing the sudden death an infant due to cessation of breathing during sleep. 4,696,307, 9-87, Cl. 128-721.000.
ontgomery, Calvin W. Knife with retractable point protector. 37,920, 11-24-87, Cl. 30-294.000.
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ontgomery, Erich P.: *See*—
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ontgomery, Gary; and Hawkins, Gene, to Sunbeam Plastics Corpora- Safety closure and container package. 4,682,700, 7-28-87, Cl. 216.000.
ontgomery, George J., IV; and Aghili, Hafez K., to McDermott ternational, Inc. Method for recovery of natural gas liquids. 5,303, 9-22-87, Cl. 62-24.000.
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ontgomery, John W.; Oliver, Earl H.; Hall, Alfred E.; and Sigalos, L. Visual and audible activated work and method of forming 4,703,573, 11-3-87, Cl. 40-455.000.
ontgomery, Lionel C.; and Criscione, John M., to Union Carbide oration. Process for making pitch-free graphitic articles. ,201, 6-2-87, Cl. 264-26.000.
ontgomery, Melvin G., to Atlantic Richfield Company. Centrifuge e lamp holder. 4,675,791, 6-23-87, Cl. 362-3.000.
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Montierth, Max R., to Corning Glass Works. Method of forming a mask. 4,670,205, 6-2-87, Cl. 264-71.000.
Montierth, Max R., to Corning Glass Works. Apparatus for forming a flexible mask. 4,715,576, 12-29-87, Cl. 249-60.000.
Montierth, Max R., to Corning Glass Works. Apparatus for high speed manifolding of honeycomb structures. 4,715,801, 12-29-87, Cl. 425-110.000.
Montierth, Max R.: *See*—
Gadkaree, Kishor P.; Montierth, Max R.; and Taylor, Mark P., 4,673,658, Cl. 501-89.000.
Montieth, Robert L.: *See*—
Irish, Joseph R.; and Montieth, Robert L., 4,657,196, Cl. 242-55.000.
Montieth, Royel F.: *See*—
McNeel, William O.; Montieth, Royel F.; and Scott, Stephen E., 4,682,831, Cl. 439-294.000.
Montijo, James K. Flotation pool blanket. 4,715,070, 12-29-87, Cl. 4-498.000.
Montijo, Robert. Super memory educational game of skill and chance. 4,640,513, 2-3-87, Cl. 273-249.000.
Montin, John L.: *See*—
Yuen, Peter S. L.; Campbell, Philip; Montin, John L.; and Ardron, Keith H., 4,645,635, Cl. 376-245.000.
Montini, Charles, Jr., to RCA Corporation. Overpower protection for a radio frequency transceiver. 4,641,365, 2-3-87, Cl. 455-78.000.
Montini, Renato, to C.E.M. S.p.A. High-efficiency thermal group. 4,633,820, 1-6-87, Cl. 122-37.000.
Montorefano, Gianpaolo, to Honeywell Inc. Single regulation power supply with load compensation of an auxiliary voltage output. 4,660,136, 4-21-87, Cl. 363-26.000.
Montorfano, Gianpaolo, to Honeywell Information Systems Italia. Power FET drivtag circuit. 4,634,903, 1-6-87, Cl. 307-571.000.
Montorfano, Gianpaolo: *See*—
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Montorsi, Roberto: *See*—
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Montoya, Daniel D.: *See*—
Rice, Steven J.; Thompson, Gilbert M.; Dolph, Michael W.; and Montoya, Daniel D., 4,684,259, Cl. 366-185.000.
Montoya, Paul C.: *See*—
Lee, David O.; Montoya, Paul C.; and Wayland, James R., Jr., 4,641,099, Cl. 324-323.000.
Lee, David O.; Montoya, Paul C.; Muir, James F.; and Wayland, J Robert, Jr., 4,658,208, Cl. 324-61.00R.
Montoye, Robert K.: *See*—
Kirkpatrick, Edward S.; Kronstadt, Eric P.; Montoye, Robert K.; and Wilcke, Winfried W., 4,656,417, Cl. 324-73.00R.
Montreal Milling Cutter Company: *See*—
Foldesi, Istvan, 4,682,463, Cl. 53-298.000.
Montreal Milling Cutter and Company, Inc.: *See*—
Dutt, Herbert V.; Foldesi Istvan; and Santostasi, Paul A., 4,683,016, Cl. 156-69.000.
Montres Rado S.A.: *See*—
Gogniat, Paul, 4,637,734, Cl. 368-294.000.
Gogniat, Paul, 4,681,461, Cl. 368-69.000.
Loth, Eric, 4,640,869, Cl. 428-469.000.
Loth, Eric, 4,674,892, Cl. 368-280.000.
Montress, Gary K.: *See*—
Grudkowski, Thomas W.; and Montress, Gary K., 4,661,923, Cl. 364-821.000.
Merritt, Sears W.; Grudkowski, Thomas W.; and Montress, Gary K., 4,656,601, Cl. 364-821.000.
Montreuil, Philippe: *See*—
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Montroll, Andrew H.: *See*—
Bradford, James N.; Ames, Jimmy R.; and Montroll, Andrew H., 4,713,821, Cl. 372-44.000.
Montrone, Dale L.; and Lewis, Edward T., to Raytheon Company. Adder/substractor for variable length numbers. 4,707,800, 11-17-87, Cl. 364-788.000.
Monzen, Takashi, to Terumo Kabushiki Kaisha. Device for receiving and treating blood. 4,664,682, 5-12-87, Cl. 55-178.000.
Mood, Geoffrey L.: *See*—
Wayman, Malcolm; and Mood, Geoffrey L., 4,674,914, Cl. 405-154.000.

Wayman, Malcolm; and Mood, Geoffrey L., 4,693,404, Cl. 225-103.000.

Mood, Steven, to Winchester Corporation. Means and method for bevel cutting. 4,662,258, 5-5-87, Cl. 83-455.000.

Moody, Brian. Spinal restraint. 4,655,206, 4-7-87, Cl. 128-134.000.

Moody, Brian R.: *See*—
Chadwick, John R., and Moody, Brian R., 4,659,192, Cl. 350-486.000.

Moody, Carl: *See*—
Atkinson, Charles; and Moody, Carl, 4,662,897, Cl. 51-293.000.

Moody, Charistopher J.: *See*—
Harvey, David M.; and Moody, Charistopher J., 4,706,887, Cl. 239-453.000.

Moody, Dale M. Protected hand grip assembly for anglers. 4,648,196, 3-10-87, Cl. 43-23.000.

Moody, David C.: *See*—
Wanek, Philip M.; Steinkruger, Frederick J.; and Moody, David C., 4,664,892, Cl. 423-2.000.

Moody, Joseph F.; and Yuille, Ronald D., to General Motors Corporation. Electronic control for a motor vehicle variable geometry turbocharger. 4,671,068, 6-9-87, Cl. 60-602.000.

Moody, Leonardo, to Luc-Co., Inc. Jewelry mounting construction. 4,655,055, 4-7-87, Cl. 63-14.00D.

Moody, Roy A.: *See*—
Caveney, Jack E.; and Moody, Roy A., 4,688,302, Cl. 24-16.0PB.

Moog, Alfons. Bridge bottom inspection apparatus. 4,696,371, 9-29-87, Cl. 182-63.000.

Moog Inc.: *See*—
Cummins, Richard D., 4,641,072, Cl. 318-687.000.
Cummins, Richard D., 4,669,413, Cl. 114-335.000.
Hall, Larry D., 4,691,621, Cl. 92-184.000.
Moog, William C., 4,685,813, Cl. 384-118.000.
Tillman, Alfred J., 4,681,135, Cl. 137-489.500.

Moog, William C., to Moog Inc. Hydrostatic bearing. 4,685,813, 8-11-87, Cl. 384-118.000.

Mookherjee, Braja D.: *See*—
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,264, Cl. 424-195.100.
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,463, Cl. 514-464.000.
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,671,959, Cl. 424-195.100.
Wilson, Richard A.; Butler, Jerry F.; Withycombe, Donald; Mookherjee, Braja D.; Katz, Ira; and Schrankel, Kenneth R., 4,693,890, Cl. 424-78.000.
Wilson, Richard A.; Butler, Jerry F.; Withycombe, Donald; Mookherjee, Braja D.; Katz, Ira; and Schrankel, Kenneth R., 4,696,676, Cl. 44-7.500.

Moolenbeek, Rob: *See*—
Cooperman, Michael; Gray, Donald J.; Sieber, Richard W.; and Moolenbeek, Rob, 4,656,621, Cl. 370-59.000.

Moomaw, David E., to Quaker Oats Company, The. Toy simulated power drill workshop. 4,701,147, 10-20-87, Cl. 446-145.000.

Moomaw, David E., to Quaker Oats Company, The. Toy simulator power driven reciprocating saw workshop. 4,713,036, 12-15-87, Cl. 446-145.000.

Moon, James B.: *See*—
Golborne, Carlos E.; and Moon, James B., 4,672,195, Cl. 250-221.000.
Sherwood, Glen R., Jr.; Moon, James B.; and Moyle, Gordon A., 4,638,313, Cl. 340-825.520.

Moon-Kau, David T., to Chiaphua Industries Limited. Food processor. 4,706,896, 11-17-87, Cl. 241-37.500.

Moon, Ronald R.; Machado, Michael G.; Cooper, Thomas G.; Weiher, Patrick M.; Bruner, Curtis H.; Strysko, Mark E.; Uhlendorf, Gregg J.; Campbell, Steven G.; Quan, Tuong T.; and Luong, Hoa V., to Quantum Corporation. High capacity disk file with embedded sector servo. 4,669,004, 5-26-87, Cl. 360-77.000.

Moon Star Chemical Corporation: *See*—
Tada, Hiroshi; Kido, Masanari; Masunaga, Hidehiko; Iwamoto, Toshiaki; Ishimoto, Tuneyoshi; and Matsui, M., 4,666,782, Cl. 428-423.900.

Moon, Stephen H.: *See*—
Ingrisano, Louis A.; Moon, Stephen H.; and English, Lawrence J., 4,637,075, Cl. 2-94.000.

Moon, William G.; Westwood, Donald C.; and Stone, Thomas R., to Plus Development Corporation. Thin and compact micro-Winchester head and disk assembly. 4,712,146, 12-8-87, Cl. 360-97.000.

Moon, William G.: *See*—
Hahn, Peter S.; Stone, Thomas R.; Moon, William G.; and Harrison, Joel N., 4,703,176, Cl. 250-231.0SE.
Harrison, Joel N.; Moon, William G.; and Graham, Randolph H., 4,639,863, Cl. 364-200.000.
Patzer, John F., II; and Moon, William G., 4,687,569, Cl. 208-407.000.

Moon, William S., to Measurex Corporation. System and process for identifying and updating tuning constants. 4,646,226, 2-24-87, Cl. 364-176.000.

Moonen, Johannes J. E.: *See*—
Luijten, Waltherus J. T. H.; and Moonen, Johannes J. E., 4,684,317, Cl. 415-73.000.

Mooney, Charles W.; Phipps, Robert E.; and Kuznicki, William J., to Motorola, Inc. Twist-off detachable belt clip assembly. 4,635,836, 1-13-87, Cl. 224-247.000.

Mooney, Charles W.; Phipps, Robert E.; and Kuznicki, William J., to Motorola, Inc. Self-locating, self-fixturing hard crystal blank mounting system. 4,706,350, 11-17-87, Cl. 29-25.350.

Mooney Chemicals, Inc.: *See*—
Hein, Richard W.; and Kelso, William C., 4,649,065, Cl. 427-370.000.

Mooney, Donald B.: *See*—
Jordy, George J.; Mooney, Donald B.; and Mosley, Joseph M., 4,689,772, Cl. 365-201.000.

Mooney, Joseph R. Liquid storage tank assembly. 4,651,893, 3-24-87, Cl. 220-445.000.

Mooney, Paul C., to Quick-Set, Incorporated. Surveillance camera mount. 4,709,897, 12-1-87, Cl. 248-551.000.

Mooney, Raymond M.: *See*—
Peterson, Marvin A.; and Mooney, Raymond M., 4,670,342, Cl. 428-377.000.

Mooney, Richard J. Flowgrid regulator. 4,659,062, 4-21-87, Cl. 251-61.100.

Mooney, Thomas E.: *See*—
Pierson, Karl B.; Mooney, Thomas E.; and Jones, William G., 4,709,901, Cl. 251-58.000.

Mooney, Warren M. Apparatus for converting a transfer truck to a flatbed or the like. 4,678,391, 7-7-87, Cl. 414-389.000.

Moore, Alan R.; Simcox, Graham W.; and Thomas, Allan K., to Lucas Electrical Electronics and Systems Limited. Connection of electrical componcni and its heat sink. 4,703,567, 11-3-87, Cl. 361-417.000.

Moore, Albert L., to Du Pont de Nemours, E. I., and Company. Base resistant fluoroelastomers. 4,694,045, 9-15-87, Cl. 525-276.000.

Moore, Alfred J., Jr.: *See*—
Greenhill, Daniel J., Sr.; and Moore, Alfred J., Jr., 4,706,359, Cl. 29-271.000.

Moore, Alix A.: *See*—
McGovern, Lore H.; and Moore, Alix A., 4,681,573, Cl. 604-329.000.

Moore, Benjamin N.: *See*—
Drapeau, Donald F.; Moore, Benjamin N.; and Hall, Henry B., 4,682,010, Cl. 219-381.000.

Moore, Bernard S.: *See*—
Cue, Berkeley W., Jr.; and Moore, Bernard S., 4,704,461, Cl. 549-404.000.

Moore, Bertram, to Schering Chemicals Limited. Bottle with frangible neck and cap. 4,662,529, 5-5-87, Cl. 215-32.000.

Moore, Bill, to Hughes Helicopters, Inc. Side stripping mechanism for linked ammunition. 4,658,701, 4-21-87, Cl. 89-332.000.

Moore Business Forms, Inc.: *See*—
Ashby, Robert E., 4,645,123, Cl. 229-69.000.
Brunea, Robert W.; and Raby, James M., 4,639,271, Cl. 106-21.000.
Fasham, Thomas I. K., 4,706,996, Cl. 282-1.00R.
Greig, Walter G., 4,708,369, Cl. 283-108.000.
Greig, Walter G., 4,714,276, Cl. 283-63.00R.
Jenkins, Richard A., 4,706,877, Cl. 229-73.000.
Jerabek, Richard J., 4,636,818, Cl. 346-213.000.
Kowalchuk, William M., 4,682,431, Cl. 40-21.00C.
Leese, David J.; and Ashby, Robert E., 4,715,530, Cl. 229-73.000.
Lukis, Lawrence J., 4,679,241, Cl. 382-13.000.
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Steidel, Leonard R., 4,648,540, Cl. 226-111.000.
Van Malderghem, Edmund G.; and Pennock, Thomas G., 4,687,228, Cl. 282-9.00R.
Van Malderghem, Edmund G.; Monico, Dominick L.; and Anderson, Michael W., 4,705,298, Cl. 282-11.50A.
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Wakeman, William R., 4,705,297, Cl. 281-2.000.
Warren, James R., 4,671,454, Cl. 229-69.000.

Moore, Byron E.: *See*—
Ball, Gregory A.; Moore, Byron E.; and Starnes, Dennis L., 4,688,837, Cl. 294-61.000.

Moore, C. Gregg: *See*—
Roe, Elverton O.; and Moore, C. Gregg, 4,693,423, Cl. 239-332.000.

Moore, Carl F. Lantern holder. 4,709,890, 12-1-87, Cl. 248-205.100.

Moore, Carl O.; and Brown, Cheryl, to A. E. Staley Manufacturing Company. Gel confections. 4,704,293, 11-3-87, Cl. 426-573.000.

Moore, Carlton R.; and Wozniacki, Roger M., to International Paper Company. Divided cell container construction. 4,651,918, 3-24-87, Cl. 229-27.000.

Moore, Charles E. Portable stand for a tree. 4,676,471, 6-30-87, Cl. 248-526.000.

Moore, Charles G.: *See*—
Roe, Elverton O.; and Moore, Charles G., 4,658,461, Cl. 15-210.00R.
Roe, Elverton O.; and Moore, Charles G., 4,662,771, Cl. 403-108.000.

Moore, Cheryl L.: *See*—
Krampe, Stephen E.; Moore, Cheryl L.; and Taylor, Charles W., 4,693,776, Cl. 156-327.000.

Moore, David E., to Cryoblast, Inc. Nozzle for cryogenic cleaning apparatus. 4,641,786, 2-10-87, Cl. 239-590.000.

Moore, David G., to Realex Corporation. Dispenser for striped viscous products. 4,715,518, 12-29-87, Cl. 222-257.000.

ore, David G.: *See*—
Ford, John M. B.; and Moore, David G., 4,691,847, Cl. 222-259.000.
Foster, Donald D.; and Moore, David G., 4,679,712, Cl. 222-384.000.

ore, Dennis G. Auxiliary vehicle lamp. 4,700,277, 10-13-87, Cl. 62-80.000.

ore, Dennis R.: *See*—
Hodo, James D.; Moore, Dennis R.; Morris, Thomas F.; and Tiller, Newton G., 4,676,110, Cl. 73-809.000.

ore Denny L. Chimney flue cover. 4,691,624, 9-8-87, Cl. 98-59.000.

ore, Derek S., to Vickers PLC. Microscope stage. 4,688,908, 25-87, Cl. 350-531.000.

ore, Derek V., to Levitt-Safety Limited. Two terminal nicad battery harger with battery voltage and temperature sensing. 4,649,333, -10-87, Cl. 320-31.000.

ore, Derek V.: *See*—
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ore, Donald J.: *See*—
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ore, Douglas R.: *See*—
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ore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Herbicidal complexes with ureas. 4,659,823, 4-21-87, Cl. 544-212.000.

ore, Edgar F., III. Embroidery framing method. 4,644,629, 2-24-87, Cl. 29-448.000.

ore, Edward K. Coiled member support and retention apparatus. 4,688,739, 8-25-87, Cl. 242-85.100.

ore, Edward V.: *See*—
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ore, Eugene R.; and Goodman, Jon T., to Dow Chemical Company, The. Uniformly coated polymeric composition. 4,704,330, 11-7-87, Cl. 428-407.000.

ore, Eugene R.: *See*—
Lee, John W.; and Moore, Eugene R., 4,668,738, Cl. 525-63.000.

oore, Fergus E. Modular computer system with integral electronic bus. 4,680,674, 7-14-87, Cl. 361-395.000.

oore, Francis W., to United States of America, Energy. Optical fiber inspection system. 4,635,111, 1-6-87, Cl. 358-106.000.

oore, Frankie A. Food service ticket timer. 4,696,576, 9-29-87, Cl. 368-10.000.

oore, Gary L.; Neilson, Bruce H.; Kauphusman, James V.; and Sharrow, James S., to GV Medical, Inc. Laser catheter control and connecting apparatus. 4,669,465, 6-2-87, Cl. 128-303.100.

oore, Gary W. Quick change towing hitch. 4,697,818, 10-6-87, Cl. 280-415.00A.

oore, George B. Vehicle steering stabilizer. 4,708,354, 11-24-87, Cl. 280-94.000.

oore, George G. I.: *See*—
Bell, Randy L.; and Moore, George G. I., 4,677,113, Cl. 514-448.000.
Bell, Randy L.; and Moore, George G. I., 4,714,776, Cl. 562-460.000.

oore, George J.: *See*—
Evers, Robert C.; and Moore, George J., 4,657,708, Cl. 260-544.00D.
Evers, Robert C.; and Moore, George J., 4,663,425, Cl. 528-183.000.

loore, Gerald L. Tamper evident seal. 4,660,732, 4-28-87, Cl. 215-232.000.

loore, Glenn E.: *See*—
Petter, William J.; Moore, Glenn E.; McMath, Jack A.; and Pemberton, Eugene B., 4,659,251, Cl. 405-52.000.

loore, Harry C. Pipe bowl filter. 4,687,005, 8-18-87, Cl. 131-202.000.

loore, Harry E. Handgun sight alignment tool and method of using same. 4,669,193, 6-2-87, Cl. 33-613.000.

loore, Henry J., to Mor-Flo Industries, Inc. Water heater with submerged combustion chamber. 4,660,541, 4-28-87, Cl. 126-360.00R.

loore, Henry J., Jr., to Mor-Flo Industries, Inc. Magnetic water conditioning device. 4,662,314, 5-5-87, Cl. 122-379.000.

loore, Jack M.: *See*—
Ciaramitaro, David A.; Speltz, David J.; and Moore, Jack M., 4,637,848, Cl. 149-21.000.

loore, James D. Diaphragm gas pump. 4,673,336, 6-16-87, Cl. 417-239.000.

loore, James E.: *See*—
Margolin, Mark; Moore, James E.; and Grois, Igor, 4,684,205, Cl. 350-96.210.
Margolin, Mark; Moore, James E.; and Grois, Igor, 4,687,288, Cl. 350-96.200.
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Quinn, Clayton B.; McClish, Richard R.; and Moore, James E., 4,714,657, Cl. 428-412.000.

loore, James G.: Obey, James H.; and Pinkel, Edward B., to Blaw Knox Corporation. Apparatus for evaporative stripping. 4,640,740, 2-3-87, Cl. 159-13.100.

loore, James G., to F.R.P. Industires, Inc. Livestock watering system. 4,704,991, 11-10-87, Cl. 119-73.000.

loore, James W.: *See*—
Lewis, David W.; Moore, James W.; and LeBleu, Julien, Jr., 4,643,592, Cl. 384-100.000.

Moore, Jeffrey E.; Evans, Brett A.; and Hansen, Richard, to Procter & Gamble Company, The. Granular detergent compositions having improved solubility. 4,715,979, 12-29-87, Cl. 252-91.000.

Moore, Jerry; and Yanglin, Dennis W., to New World Manufacturing, Inc. Waterbed with removable side cushions. 4,637,082, 1-20-87, Cl. 5-452.000.

Moore, Jerry L.: *See*—
Header, Stephen; Moore, Jerry L.; and Taylor, Atsalee S., 4,687,267, Cl. 439-62.000.

Moore, Jesse C. Rotary vane pump. 4,673,343, 6-16-87, Cl. 418-173.000.

Moore, John, to De la Rue Giori S.A. Method and arrangement for attaching printing plates to a plate cylinder. 4,640,067, 7-14-87, Cl. 156-165.000.

Moore, John, to British Petroleum Company p.l.c., The. Tool loading device. 4,705,314, 11-10-87, Cl. 294-115.000.

Moore, John C.: *See*—
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Moore, John F., to Kabushiki Kaisha Toshiba. Laminar magnet for magnetic resonance device and method of making same. 4,641,119, 2-3-87, Cl. 335-297.000.

Moore, John F., to Kabushiki Kaisha Toshiba. Particle detector crystal and related particle detector assembly. 4,672,208, 6-9-87, Cl. 250-368.000.

Moore, John J.: *See*—
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Moore, John R.; and Maybaum, Stephen, to Harborchem, Inc. Method for casting refractory molds. 4,664,948, 5-12-87, Cl. 427-134.000.

Moore, John S.; and Ghassemi, Farhad, to Conoco, Inc. Determining steam distribution. 4,687,057, 8-18-87, Cl. 166-252.000.

Moore, John S.: *See*—
Powers, Maston L.; Dodson, Christopher J.; Moore, John S.; and Ghassemi, Farhad, 4,641,709, Cl. 166-252.000.

Moore, Joseph E.; Yang, Yuh-Lin; Griffith, Robert K.; and Chan, David C. K., to Chevron Research Company. Fungicidal N-cyanoalkyl-N-haloalkylthio sulfonamides. 4,652,556, 3-24-87, Cl. 514-155.000.

Moore, Katherine L.: *See*—
Kupper, Philip L.; Moore, Katherine L.; and Swaine, Robert L., Jr., 4,690,827, Cl. 426-548.000.

Moore, Kevin W.; and Zaffaroni, Alejandro, to DNAX Research Institute of Molecular and Cellular Biology, Inc. Hybrid DNA prepared binding composition. 4,642,334, 2-10-87, Cl. 530-388.000.

Moore, L. Bruce, to Machine Research Company, Inc. Work positioner. 4,653,739, 3-31-87, Cl. 269-61.000.

Moore, Larry G.: *See*—
Fitsch, Robert A.; Beyers, Billy W., Jr.; Moore, Larry G.; and Tults, Juri, 4,677,484, Cl. 358-155.000.

Moore, Larry W., to Rockwell International Corporation. Electrical connector for circuit boards. 4,675,252, 7-7-87, Cl. 439-62.000.

Moore, Lawrence C.; Hibdon, Freddy M.; Howell, James M.; and Blalock, James E., to Colbus & Aikman Corporation. Apparatus for automatically fabricating textile articles such as bath throw rugs and the like. 4,688,499, 8-25-87, Cl. 112-121.120.

Moore, Luana, to Key Pharmaceuticals, Inc. Means of aiding in the prevention of sudden infant death syndrome. 4,639,455, 1-27-87, Cl. 514-282.000.

Moore, Lyman T.: *See*—
Karagoz, Berch Y.; Moore, Lyman T.; Rua, Joseph M.; Travers, Mark D.; and Allen, Donald P., 4,689,799, Cl. 373-93.000.

Moore, M. Samuel, to Semco Instruments, Inc. Lightweight thermocouple assembly. 4,698,454, 10-6-87, Cl. 136-233.000.

Moore, Mark A. Drag reduction device for tractor-trailers. 4,688,841, 8-25-87, Cl. 296-1.00S.

Moore, Michael G.; and Mills, Ronald E., to Chrysler Motors Corporation. Integrated console cup holder. 4,708,386, 11-24-87, Cl. 296-37.800.

Moore, Michael L., to SmithKline Beckman Corporation. 6-pen vasopressin compounds. 4,711,877, 12-8-87, Cl. 514-11.000.

Moore, Michael L.: *See*—
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Callahan, James F.; Huffman, William F.; Moore, Michael L.; and Yim, Nelson C., 4,658,015, Cl. 530-329.000.
Callahan, James F.; Huffman, William F.; Moore, Michael L.; and Yim, Nelson C., 4,684,621, Cl. 514-11.000.

Moore, Milton D. Shaving tool. 4,709,481, 12-1-87, Cl. 30-356.000.

Moore, Neal W.: *See*—
Corwin, Charles E.; and Moore, Neal W., 4,675,675, Cl. 340-945.000.

Moore, Patrick D.; and Mahaffey, Robert L., Jr., to Milliken Research Corporation. P-formyl-N,N-dipolyoxyalkylenesubstitutedaniline 4,658,064, 4-14-87, Cl. 564-443.000.

Moore, Patrick D.: *See*—
Baumgartner, Alan S.; Moore, Patrick D.; and VanDahm, Richard A., 4,640,693, Cl. 8-506.000.

Moore, Paul A., to U.S. Philips Corporation. Battery economizing circuit. 4,683,414, 7-28-87, Cl. 320-13.000.

Moore, Paul A.: *See*—
Bradley, Irving; and Moore, Paul A., 4,658,178, Cl. 313-113.000.

Moore, Paul E.: *See*—
Seshamani, Venkatram; Campbell, Walter R.; and Moore, Paul E., 4,665,864, Cl. 122-4.00D.

Moore, Peter G.; and Davidson, John D., to Ferranti plc. Position servo system. 4,636,700, 1-13-87, Cl. 318-611.000.

Moore Push-Pin Company: *See*—
Hoskinson, Marlin J.; and Lorincz, Eugene, 4,676,051, Cl. 53-451.000.
Moore, Richard A., to Western Publishing Company, Inc. Combination food carrier and amusement device. 4,712,673, 12-15-87, Cl. 206-232.000.
Moore, Richard C.: *See*—
Dekeyser, Mark A.; Pierce, Benjamin J.; Moore, Richard C.; and Hubbard, Winchester L., 4,634,690, Cl. 514-81.000.
Dekeyser, Mark A.; Mishra, Anupama; and Moore, Richard C., 4,670,555, Cl. 544-68.000.
Plant, Howard L.; Regis, Richard R.; and Moore, Richard C., 4,654,330, Cl. 514-89.000.
Strunk, Richard J.; and Moore, Richard C., 4,640,927, Cl. 514-342.000.
Moore, Richard H.; Strauss, H. William; and Alpert, Nathaniel M., to General Hospital Corporation, The. Ambulatory ventricular function monitor. 4,633,881, 1-6-87, Cl. 128-659.000.
Moore, Richard L. Split curved plate antenna. 4,675,691, 6-23-87, Cl. 343-908.000.
Moore, Robert H.; and Morgan, Paul, to John Davis & Son (Derby) Limited. Connector for releasable connection of a first and a second apparatus. 4,682,847, 7-28-87, Cl. 350-96.200.
Moore, Robert L. Structural beam and blank for forming it. 4,708,691, 11-24-87, Cl. 446-488.000.
Moore, Robert R. Needle guide apparatus for discolysis procedures. 4,638,799, 1-27-87, Cl. 128-303.00B.
Moore, Robert S. Metal fencing, gratings and the like employing novel interconnecting means and method of assembly. 4,667,935, 5-26-87, Cl. 256-22.000.
Moore, Robert W.; and Azzopardi, Michael J. Carton loading method and system. 4,640,657, 2-3-87, Cl. 414-347.000.
Moore, Rogers A.; O'Brien, Joseph R.; and Brown, David O., to General Signal Corporation. EMI/EMP electrical cable penetration seal. 4,656,313, 4-7-87, Cl. 174-35.00R.
Moore, Ronald D.; Kavanaugh, James D.; Phelps, Richard A.; and Howard, Michael C., to Chivas Products Limited. Padded automotive casket handle. 4,686,741, 8-18-87, Cl. 16-112.000.
Moore, Roy A. Solar tracker. 4,649,899, 3-17-87, Cl. 126-425.000.
Moore, Roy A. Solar cooling apparatus. 4,703,629, 11-3-87, Cl. 62-235.100.
Moore, Simon: *See*—
Beech, Brian H.; and Moore, Simon, 4,654,601, Cl. 329-122.000.
Moore Special Tool Co., Inc.: *See*—
Lawson, Harold W., Jr., 4,676,030, Cl. 51-165.750.
Moore, Wayne R., 4,704,825, Cl. 51-290.000.
Winski, Dennis A., 4,643,622, Cl. 409-84.000.
Moore, Stanley E., to Dow Chemical Company, The. Process for making a dehydrogenation catalyst having improved moisture stability. 4,684,619, 8-4-87, Cl. 502-330.000.
Moore, Stanley E.: *See*—
Hunter, Douglas L.; and Moore, Stanley E., 4,642,395, Cl. 568-883.000.
Hunter, Douglas L.; Moore, Stanley E.; and Willis, Gordon G., 4,647,708, Cl. 568-883.000.
Moore, Stephen: *See*—
Jansons, Viktors; Gors, Heinrich C.; Moore, Stephen; Reamey, Robert H.; and Becker, Paul, 4,698,393, Cl. 525-242.000.
Moore, Stephen J.: *See*—
Nowack, William C.; Moore, Stephen J.; and Weger, Kenneth F., Jr., 4,635,422, Cl. 52-406.000.
Moore, Steven C.: *See*—
Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Onystok, Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dworsky, Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., 4,639,631, Cl. 310-344.000.
Moore, Thomas C.: *See*—
Rorden, Louis H.; and Moore, Thomas C., 4,710,708, Cl. 324-207.000.
Moore, Thomas S., to Ford Motor Company. Mechanism to engage part time drive system in a moving vehicle. 4,648,492, 3-10-87, Cl. 192-3.210.
Moore, Timothy J. Container with integral fold-in closure lid. 4,712,725, 12-15-87, Cl. 229-8.000.
Moore, Trevor J.: *See*—
Russell, Robert A.; Moore, Trevor J.; and Schafer, Timothy V., 4,644,853, Cl. 92-190.000.
Moore, Vernon L.: *See*—
Boulton, David A.; Kopka, Ihor E.; Moore, Vernon L.; and Pessolano, Arsenio A., 4,697,012, Cl. 544-124.000.
Moore, Victor S.; Kraft, Wayne R.; and Rhodes, Joseph C., Jr., to International Business Machines Corp. Apparatus and method using a programmable logic array for decoding an operation code and providing a plurality of sequential output states. 4,660,171, 4-21-87, Cl. 364-900.000.
Moore, Victor S.: *See*—
Rhodes, Joseph C., Jr.; Moore, Victor S.; Kraft, Wayne R.; and Barrs, John W., 4,685,080, Cl. 364-900.000.
Moore, Wan Edwin: *See*—
Cofer, Archie, 4,662,610, Cl. 254-420.000.
Moore, Wayne E.; Quinn, Stephen R.; Tufts, Wesley M.; and Gasko, William F., to Aster Associates. Optical fiber unit having protective assembly. 4,714,316, 12-22-87, Cl. 350-96.200.
Moore, Wayne R., to Moore Special Tool Co., Inc. Method for automatically sizing a ground surface on a workpiece. 4,704,825, 11-10-87, Cl. 51-290.000.
Moore, Wildey J. Ambidexterous magazine catch. 4,638,581, 1-27-87, Cl. 42-7.000.
Moore, William A.: *See*—
Stevens, Leonard W.; Siwik, William S.; Moore, William A.; Brown, Wayne M.; and Barnard, Andrew A., 4,709,545, Cl. 60-39.080.
Moore, William G.; Jones, Warren W.; and Larue, John C., to Westinghouse Electric Corp. End winding bracing system for gas-cooled rotors of large generators. 4,656,382, 4-7-87, Cl. 310-270.000.
Moore, William G.; and Nagoda, Louis E., to Westinghouse Electric Corp. Apparatus for enclosing and cooling turbine generator collector sets. 4,713,566, 12-15-87, Cl. 310-58.000.
Moore, William H., to Grumman Aerospace Corporation. Blown crescent airfoil. 4,674,716, 6-23-87, Cl. 244-207.000.
Moore, William H.; Gutowski, Charles M.; Trosky, William J.; and Butler, Thomas A., to Westinghouse Electric Corp. Methods of servicing an elevator system. 4,697,243, 9-29-87, Cl. 364-513.000.
Moore, William H.; Weaver, Max A.; and Lum, Kin K., to Eastman Kodak Company. Magenta dye-donor element used in thermal dye transfer. 4,698,651, 10-6-87, Cl. 503-227.000.
Moore, William H.: *See*—
Mandel, Alan F.; Eichler, Kenneth M.; and Moore, William H., 4,646,058, Cl. 187-100.000.
Mandel, Alan F.; Eichler, Kenneth M.; Trosky, William J.; and Moore, William H., 4,698,780, Cl. 364-550.000.
Weaver, Max A.; Moore, William H.; and Lum, Kin K., 4,701,439, Cl. 503-227.000.
Moore, William J. M.: *See*—
So, Eddy; and Moore, William J. M., 4,638,302, Cl. 340-347.00A.
Moore, William McC.: *See*—
Spilburg, Curtis A.; and Moore, William McC., 4,687,841, Cl. 530-331.000.
Moore, William P. Attrition resistant controlled release fertilizers. 4,711,659, 12-8-87, Cl. 71-93.000.
Moorefield, James F., II, to Lorillard, Inc. Apparatus for transporting, storing and blending small bales of tobacco. 4,664,131, 5-12-87, Cl. 131-300.000.
Moorehead, Eric L., to Union Oil Company of California. Process for making maleic anhydride. 4,639,530, 1-27-87, Cl. 549-260.000.
Moorehead, Eric L.; and Shen, Sidney Y., to Union Oil Company of California. Process for producing lubrication oil of high viscosity index from shale oils. 4,699,707, 10-13-87, Cl. 208-57.000.
Moorehead, Eric L.: *See*—
Ackelson, Donald B.; Moorehead, Eric L.; Ward, John W.; and Probst, Jon D., 4,695,365, Cl. 208-89.000.
Moorehead, Jack F.; and Campbell, Richard S., Sr., to Fairchild Filter Corporation. Cast filter and automatic self-cleaning backflush control system therefor. 4,678,564, 7-7-87, Cl. 210-108.000.
Moorehead, Thomas J.; and Bayless, Allan V., to Norwich Eaton Pharmaceuticals, Inc. Acylphosphorotriamides useful as lipid-altering agents. 4,668,667, 5-26-87, Cl. 514-89.000.
Moorehouse, James R.: *See*—
Lang, Arthur D.; Moorehouse, James R.; and O'Brien, Edwin L., 4,647,884, Cl. 333-248.000.
Moores, Gregory E.: *See*—
Dibbern, John E., Jr.; and Moores, Gregory E., 4,684,774, Cl. 200-275.000.
Moores, Ralph J.: *See*—
Gnanamuthu, Daniel S.; Moores, Ralph J.; Paton, Neil E.; and Vyhna, Richard F., 4,716,270, Cl. 219-121.01.M.
Moorhead, Arthur J., to United States of America, Energy. Copper-silver-titanium filler metal for direct brazing of structural ceramics. 4,698,271, 10-6-87, Cl. 428-621.000.
Moorhouse, David, to jmh Holdings Limited. Vehicle seats. 4,648,655, 3-10-87, Cl. 297-331.000.
Moorhouse, John H. Interior barrier lock structure. 4,653,297, 3-31-87, Cl. 70-363.000.
Moorman, Charles T.: *See*—
Vogel, Gerald J.; Kearney, Donald T.; Akpinar, Belkis K.; and Moorman, Charles T., 4,707,368, Cl. 426-386.000.
Moorman, Lewis B.: *See*—
Lachman, John C.; Moorman, Lewis B.; and Bosak, Alan A., 4,633,918, Cl. 140-71.00R.
Moorman Manufacturing Company: *See*—
Stephan, Kurt F.; Stephan, John T.; and Klein, Steven R., 4,654,441, Cl. 564-38.000.
Moorman, Michael C.; and Monahan, John F., to RCA Corporation. Low noise signal detection for a charge transfer device by quadrature phasing of information and reset noise signals. 4,689,808, 8-25-87, Cl. 377-60.000.
Moormann, Alan E.: *See*—
Adelstein, Gilbert W.; Moormann, Alan E.; and Yu, Stella S. T., 4,687,775, Cl. 514-300.000.
Moorse, David J.; and Strover, Angus E., to A. W. Showell (Surgicraft) Limited. Surgical element. 4,662,886, 5-5-87, Cl. 623-13.000.
Moos, Hans J.: *See*—
Simonsen, Jens K.; and Moos, Hans J., 4,680,974, Cl. 73-861.380.
Moos, Kurt, to Ransburg-Gema AG. Method and apparatus for the spraying of powder. 4,659,011, 4-21-87, Cl. 239-3.000.
Moos, Niklaus J.; and Papworth, Richard C., to Versatile Corporation. Hydraulic trip mechanism. 4,660,652, 4-28-87, Cl. 172-260.500.
Moos, Walter: *See*—
Bristol, James A.; Moos, Walter; and Trivedi, Bharat K., 4,663,313, Cl. 514-46.000.

Moos, Walter H.: *See—*
Bergmeier, Stephen C.; Downs, David A.; Moos, Walter H.; Moreland, David W.; and Tecle, Haile, 4,710,508, Cl. 514-357.000.
Bristol, James A.; Moos, Walter H.; and Trivedi, Bharat, 4,657,897, Cl. 514-47.000.
Bristol, James A.; Moos, Walter H.; and Trivedi, Bharat, 4,657,898, Cl. 514-47.000.

Moosbrugger, Dennis S.; DiFazio, Joseph; and Watson, David N., to Xebron Corporation. Edge-illuminated sign. 4,697,365, 10-6-87, Cl. 40.546.000.

Moose Industries, Inc.: *See—*
Boneta, Louis, 4,680,880, Cl. 37-236.000.

Moose, James R., to Watsco Inc. Track-inter-locking roller wheel assembly for sliding patio doors. 4,633,615, 1-6-87, Cl. 49-425.000.

Moosmang, Klaus: *See—*
Haas, Ludwig; and Moosmang, Klaus, 4,675,689, Cl. 343-786.000.

Moosmann, Georg: *See—*
Merkle, Alfred; Moosmann, Georg; and Muller, Rolf, 4,701,653, Cl. 310-152.000.

Moosmann, Horst, to Gebruder Junghans GmbH. Explosive system for guided missiles and rocket projectiles. 4,694,751, 9-22-87, Cl. 102-202.000.

Moosmann, Horst: *See—*
Dinger, Horst; and Moosmann, Horst, 4,683,823, Cl. 102-229.000.
Dinger, Horst; and Moosmann, Horst, 4,715,281, Cl. 102-216.000.
Halsig, Andreas; Moosmann, Horst; Winterhalter, Walter; and Westphal, Gunter, 4,653,402, Cl. 102-245.000.

Moosmuller, Helmut. Binding mechanism for perforated papers. 4,693,634, 9-15-87, Cl. 402-22.000.

Moosz, Alexander P. Electronic apparatus for generating sets of numerical values for playing lottery games. 4,692,863, 9-8-87, Cl. 364-412.000.

Moplefan S.p.A.: *See—*
Clementini, Luciano; Camprincoli, Pierpaolo; Marcaccioli, Enzo; and Gemmi, Alfredo, 4,671,986, Cl. 428-216.000.

Mor-Flo Industries, Inc.: *See—*
Moore, Henry J., 4,660,541, Cl. 126-360.00R.
Moore, Henry J., Jr., 4,662,314, Cl. 122-379.000.

Mor, Yeshayahu: *See—*
Damouny, Nabil G.; Huang, Min-Siu; Wilnai, Dan; and Mor, Yeshayahu, 4,713,750, Cl. 364-200.000.

Mora, Camillo C., to Camillo Corvi S.p.A. Derivative of (—)-6,6-dimethylbicyclo [3.1.1]ept-2-ene-2-ethanol having mucosecretolytic activity, a process for its preparation and pharmaceutical compositions containing the same. 4,644,087, 2-17-87, Cl. 568-823.000.

Mora, Camillo C., to Camillo Corvi S.p.A. Theophylline-7-acetic acid ester of d,l-trans-sobrerol having mucosecretolytic-fluidizing and antibronchospastic activity, a process for its preparation and pharmaceutical compositions thereof. 4,652,568, 3-24-87, Cl. 514-263.000.

Mora Hydraulics Aktiebolag: *See—*
Mjoberg, Jan-Olov, 4,700,852, Cl. 212-189.000.

Mora, Marie H.: *See—*
Fraleux, Jean; Hennion, Christine; Mora, Marie H.; and Ploix, Jean L., 4,643,689, Cl. 445-3.000.

Morabeto, James W. Golf tee. 4,645,208, 2-24-87, Cl. 273-207.000.

Morag, Meir. Information display system. 4,713,651, 12-15-87, Cl. 340-407.000.

Moraitis, Dennis: *See—*
Andrews, LaVern A.; and Moraitis, Dennis, 4,649,390, Cl. 342-140.000.

Morales, Alfredo L.; Galiasso, Roberto; Carrasquel, Angel R.; and Salazar, Jose A., to Intevep, S.A. Catalyst for removing sulfur and metal contaminants from heavy crudes and residues. 4,642,179, 2-10-87, Cl. 208-217.000.

Morales-George, Hector. Drainage "T" tube used for abdominal surgery. 4,654,032, 3-31-87, Cl. 604-174.000.

Morales-George, Hector. Device for treating anatomical parts. 4,656,997, 4-14-87, Cl. 128-5.00R.

Moralez, Christopher M.: *See—*
Troup, Edward M., deceased; Kendall, Giles A.; Han, Joseph U.; Moralez, Christopher M.; and Gongwer, Calvin A., 4,681,259, Cl. 239-206.000.

Moraly, Paul, to Sarkis S.A. Process and tool for boring cavity holes, more especially in concrete piaster or similar walls. 4,640,371, 2-3-87, Cl. 175-61.000.

Moraly, Paul, to Pegfence International, Inc. Method for manufacturing pins particularly intended for anchoring in the ground posts or stakes, and pins obtained thereby. 4,651,399, 3-24-87, Cl. 29-412.000.

Moraly, Paul. Mobile apparatus for driving different objects into the ground by impact. 4,667,746, 5-26-87, Cl. 173-89.000.

Moran, Ellen: *See—*
Zollinger, Wendell D.; Boslego, John; Moran, Ellen; Brandt, Brenda; Collins, Hugh; Mandrell, Robert; Altieri, Patricia; and Berman, Sanford, 4,707,543, Cl. 530-402.000.

Moran, James J.; and Boyes, Russell S., to NALCO Chemical Company. Application equipment for uniform application of water-based cements. 4,683,152, 7-28-87, Cl. 427-428.000.

Moran, John C.: *See—*
Weisenbarger, Gale M.; and Moran, John C., 4,711,271, Cl. 137-827.000.

Moran, Joseph M.: *See—*
Heimann, Peter A.; Moran, Joseph M.; and Schutz, Ronald J., 4,680,084, Cl. 156-626.000.
Miller, David A.; Moran, Joseph M.; and Taylor, Gary N., 4,683,024, Cl. 156-643.000.

Moran, Lyle E.: *See—*
Gorter, Helen R.; Moran, Lyle E.; Robertson, Warren D.; and Savard, Shaunalea, 4,711,672, Cl. 106-281.00R.

Moran, Michael J.; and Kemnitz, Tadeusz, to USM Corporation. Product handling and weighing apparatus. 4,681,176, 7-21-87, Cl. 177-114.000.

Moran, Paul R., to Wisconsin Alumni Research Foundation. NMR flow imaging using bi-phasic excitation field gradients. 4,654,591, 3-31-87, Cl. 324-306.000.

Moran, Paul R.; and Halbach, Richard E., to Metriflow, Inc. Blood flow imaging using a CW NMR technique. 4,697,147, 9-29-87, Cl. 324-306.000.

Moran, Paul R., to Wisconsin Alumni Research Foundation. NMR flow imaging using a composite excitation field and magnetic field gradient sequence. 4,697,149, 9-29-87, Cl. 324-309.000.

Moran, Peter; and Vyse, Barry. Integrated circuit packages. 4,672,418, 6-9-87, Cl. 357-70.000.

Moran, Peter L. Multilayer systems and their method of production. 4,657,778, 4-14-87, Cl. 427-53.100.

Moran, Thomas F., Jr.: *See—*
Cross, Andrew L.; and Moran, Thomas F., Jr., 4,687,432, Cl. 425-387.100.

Morand, Michel J. E. D., to Norman Wade Company Ltd. Ball joint for lamp. 4,700,017, 10-13-87, Cl. 174-86.000.

Morand, Philippe C.: *See—*
Vega, Jean F.; and Morand, Philippe C., 4,698,108, Cl. 149-21.000.

Morand, Verne J.: *See—*
Petersen, Walter J.; Svendsen, John M.; and Morand, Verne J., 4,636,617, Cl. 219-375.000.

Morandi, Cesare; and Parigi, Enrico. Toilet bowl with means for hot water distribution for washing and hot air for subsequent drying. 4,653,126, 3-31-87, Cl. 4-420.200.

Morane, Bruno P., to L'Oreal. Container for storing and dispensing a liquid product and at least one additional product which are to remain separated during storage. 4,638,927, 1-27-87, Cl. 222-83.000.

Moranne, Jean-Pierre, to Societe Anonyme des Usines Chausson. Heat exchanger with tubes and fins and tube-plates. 4,651,821, 3-24-87, Cl. 165-175.000.

Morarka, Kedar M.; and Jones, James A., II, to Frye Copysystems, Inc. Bi-level cartridge with dual drives for endless ribbon. 4,650,354, 3-17-87, Cl. 400-196.100.

Moraski, Dennis P.; and Sadler, Bryon L., to Sam Dick Industries, Inc. Liquefied gas vaporizer unit. 4,645,904, 2-24-87, Cl. 219-275.000.

Moravec, John V.: *See—*
Thaden, Robert C.; Bond, Jeffrey C.; Moravec, John V.; Guttag, Karl M.; Pinkham, Raymond; and Novak, Mark, 4,656,596, Cl. 364-521.000.

Moravek, Peter; Trebitz, Bernd; Weller, Albrecht; and Amsel, Klaus, to Braun Aktiengesellschaft. Air cushioned support sole plate. 4,685,229, 8-11-87, Cl. 38-84.000.

Morawietz, Alfred: *See—*
Lauer, Gerhard; Morawietz, Alfred; and Wild, Jurgen, 4,674,366, Cl. 81-57.140.

Morawski, Jean-Claude: *See—*
Lagarde, Robert; Machurat, Jean; Morawski, Jean-Claude; and Vrisakis, Georges, 4,704,425, Cl. 524-492.000.
Le Ludec, Joel; Machurat, Jean; Morawski, Jean-Claude; and Soula, Gerard, 4,701,492, Cl. 524-493.000.

Morbioli, Rene J.; and Ney, Jean C., to Societe Nationale d'Etude et de Construction de Moteur d'Aviation S.N.E.C.M.A. Elutriation apparatus for the purification and separation of powders of different densities. 4,640,768, 2-3-87, Cl. 209-37.000.

Morbitzer, Hans P.: *See—*
Nowak, Gerhard; Winter, Alfred; Morbitzer, Hans P.; Kruschik, Klaus; and Theuer, Rudolf, 4,691,936, Cl. 280-615.000.

Morbitzer, Leo: *See—*
Binsack, Rudolf; Kohler, Karl-Heinz; Grigo, Ulrich; Morbitzer, Leo; Bottenbruch, Ludwig; and Heitz, Walter, 4,686,262, Cl. 525-177.000.
Kress, Hans-Jurgen; Lindner, Christian; Morbitzer, Leo; Peters, Horst; Ott, Karl-Heinz; and Schoeps, Jochen, 4,683,265, Cl. 525-67.000.

Morby, John A.; Sabatella, Robert J.; and Shuttleworth, George L., to General Electric Company. Circuit breaker support saddle having a split neutral connector. 4,667,269, 5-19-87, Cl. 361-355.000.

Morby, John A.: *See—*
Markowski, Robert G.; Balcezak, Stanley M., Jr.; Bottalico, John J.; Morby, John A.; and Sabatella, Robert J., 4,675,481, Cl. 200-144.00R.
M'Sadoques, Andre J.; and Morby, John A., 4,646,199, Cl. 361-353.000.

Morcom, Christopher J.: *See—*
Bell, Raymond T.; and Morcom, Christopher J., 4,651,215, Cl. 358-213.000.

Morcom, Richard, to Independent Broadcasting Authority. MAC vertical synchronizing signals. 4,639,764, 1-27-87, Cl. 358-14.000.

Morcom, Richard; and Hurley, Terence R., to Independent Broadcasting Authority. Downsampling and prefilter implementation in television systems. 4,700,345, 10-13-87, Cl. 370-118.000.

Mordant, Ludo H. J., to U.S. Philips Corporation. Magnetic-tape-cassette apparatus with impulse reset to the rest position. 4,649,440, 3-10-87, Cl. 360-69.000.

Mordini, Jacques: *See—*
Lepetit, Jean; and Mordini, Jacques, 4,650,653, Cl. 423-121.000.

Mordorski, Carol J., to Zimpro Inc. Process for protection of biological nitrification systems. 4,693,827, 9-15-87, Cl. 210-614.000.

More-Chevalier, Francois, to Cat'hild. Movable dryer for the treatment of lumber products. 4,653,202, 3-31-87, Cl. 34-201.000.

Moreau, Alain, to U.S. Philips Corporation. Voltage regulator circuit. 4,667,145, 5-19-87, Cl. 323-275.000.

Moreau, Andre, to Electricite de France (Service National). Fire grate. 4,671,190, 6-9-87, Cl. 110-281.000.

Moreau, Jean-Frederic, to Revetements De Couvin. Method for lining a base with a continuous granulate layer and equipment for the working of this method. 4,693,911, 9-15-87, Cl. 427-196.000.

Moreau, Jean-Pierre: *See*—
Kroczynski, Patrice A.; and Moreau, Jean-Pierre, 4,666,114, Cl. 248-205.600.

Moreau, Jean-Pierre L., to Chantiers du Nord et de la Mediterranee. Equipment for extracting ores from sea beds. 4,685,742, 8-11-87, Cl. 299-8.000.

Moreau, Luc: *See*—
Belbel, Elie; Lauraire, Michel; Moreau, Luc; Lemarquand, Pierre; Paggi, Serge; and Comtois, Patrick, 4,647,741, Cl. 200-151.000.
Belbel, Elie; Blanchard, Christian; Cohen, Jacques; Haury, Andre; Lauraire, Michel; and Moreau, Luc, 4,650,937, Cl. 200-77.000.
Comtois, Patrick; Ingrain, Raymond; Moreau, Luc; and Paggi, Serge, 4,668,926, Cl. 335-21.000.

Moreau, Pierre A.: *See*—
Wallow, Peter; Gersbach, Klaus; Simon, Walter; Bisping, Bernhard; Montier, Patrick; Moreau, Pierre A.; and Sauvestre, Jean-Claude, 4,702,172, Cl. 102-521.000.

Morehouse, Alpha A.; and Sander, Pamela A., to Grain Processing Corporation. Low D.E. starch hydrolyzates. 4,699,669, 10-13-87, Cl. 127-30.000.

Morehouse, Alpha L.; and Krone, Pamela A., to Grain Processing Corporation. Low D.E. starch hydrolyzates. 4,684,410, 8-4-87, Cl. 127-40.000.

Morehouse, Alpha L.; and Sander, Pamela A., to Grain Processing Corporation. Low d.e. starch hydrolyzates. 4,689,088, 8-25-87, Cl. 127-30.000.

Morehouse, Alpha L.; and Krone, Pamela A., to Grain Processing Corporation. Low D.E. starch hydrolyzates. 4,699,670, 10-13-87, Cl. 127-40.000.

Morehouse, Charles C.: *See*—
Birk, John; Breu, Heinz; Gong, William; Morehouse, Charles C.; and Liebes, Sidney, Jr., 4,705,081, Cl. 140-147.000.

Morehouse, Dale H.: *See*—
Samosky, Paul E.; Corrigan, John J.; Morehouse, Dale H.; and Szkaradek, Edward J., 4,651,935, Cl. 241-65.000.

Morehouse Industries, Inc.: *See*—
Samosky, Paul E.; Corrigan, John J.; Morehouse, Dale H.; and Szkaradek, Edward J., 4,651,935, Cl. 241-65.000.
Szkaradek, Edward J.; and Corrigan, John J., 4,709,863, Cl. 241-69.000.

Morehouse, Mark N.: *See*—
Simmel, Thomas L.; Crossley, David W.; and Morehouse, Mark N., 4,695,267, Cl. 446-462.000.

Morel, Didier: *See*—
Dang, Tuan-Phat; Jenck, Jean; and Morel, Didier, 4,654,176, Cl. 260-505.00R.
Jenck, Jean; and Morel, Didier, 4,668,824, Cl. 568-15.000.
Mignani, Gerard; Morel, Didier; and Chabardes, Pierre, 4,634,778, Cl. 549-80.000.
Mignani, Gerard; and Morel, Didier, 4,693,849, Cl. 260-404.000.
Mignani, Gerard; and Morel, Didier, 4,705,650, Cl. 260-405.500.
Morel, Jacques; and Morel, Didier, 4,711,975, Cl. 174-92.000.
Morel, Jacques; and Morel, Didier, 4,712,285, Cl. 29-458.000.

Morel, Frederic: *See*—
Le Page, Jean-Francois; Billon, Alain; Morel, Frederic; Renard, Pierre; Biedermann, Jean-Michel; Laborde, Michel; and Bousquet, Jacques, 4,715,946, Cl. 208-45.000.

Morel, Jacques; and Morel, Didier, to Etablissements Morel - Ateliers Electromecaniques de Favieres. Protective sleeve and a method for protecting cable splices. 4,711,975, 12-8-87, Cl. 174-92.000.

Morel, Jacques; and Morel, Didier, to Etablissements Morel - Ateliers Electromecaniques de Favieres. Method for achieving fluid-tightness of a plastic sleeve for protecting splices of electric cables or telephone cables. 4,712,285, 12-15-87, Cl. 29-458.000.

Morel, Jean-Michel: *See*—
Languillat, Jean-Paul; Morel, Jean-Michel; and Queyrat, Jacques, 4,693,919, Cl. 428-36.000.

Morel, Jean-Paul G. R.: *See*—
Gorter, Frederik W.; Morel, Jean-Paul G. R.; and Ruigrok, Jacobus J. M., 4,670,807, Cl. 360-120.000.

Morel, Michel; and Valence, Marc, to Clecim. Process for adjusting the thickness and profile of a flat product in the course of rolling. 4,651,547, 3-24-87, Cl. 72-8.000.

Morel, Simone. Obturating device for tubes, flasks and other containers, the opening and closing of which are controlled through rotation. 4,690,304, 9-1-87, Cl. 222-44.000.

Moreland, Charles E.: *See*—
Tashjian, Robert J.; and Moreland, Charles E., 4,694,481, Cl. 378-198.000.

Moreland, David W.: *See*—
Bergmeier, Stephen C.; Downs, David A.; Moos, Walter H.; Moreland, David W.; and Tecle, Haile, 4,710,508, Cl. 514-357.000.

Moreland, Gerald W.; and Moreland, James E., to Jebadabe International, Inc. Water jet aerator with flow controlling nozzle. 4,671,463, 6-9-87, Cl. 239-428.500.

Moreland, Jack, to MPC Containment Systems, Ltd. Airtight, watertight mechanical seam for joining panels of industrial strength fabrics. 4,641,400, 2-10-87, Cl. 24-389.000.

Moreland, Jack, to MPC Containment Systems, Ltd. Secondary containment systems especially well suited for hydrocarbon storage and delivery systems. 4,682,911, 7-28-87, Cl. 405-53.000.

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Moreland, Gerald W.; and Moreland, James E., 4,671,463, Cl. 239-428.500.

Moreland, Peter J., to Imperial Chemical Industries PLC. Current leakage apparatus in electrolytic cell. 4,713,160, 12-15-87, Cl. 204-231.000.

Moreland, Robert D., to Betz Laboratories, Inc. Detackification of adhesive materials contained in secondary fiber. 4,698,133, 10-6-87, Cl. 162-5.000.

Morell, Charles J.; and Strickland, Mark D., to Kimberly-Clark Corporation. Dusting cloth. 4,636,429, 1-13-87, Cl. 428-288.000.

Morell, Josef; Freudenschuss, Otto; and Schmidt, Harald, to Steyr-Daimler-Puch AG. Fuel injection nozzle for internal combustion engines. 4,715,542, 12-29-87, Cl. 239-533.900.

Morell, Joseph; Benoit, Louis; and Bonnet, Maurice, to Salomon S.A. Ski boot. 4,633,599, 1-6-87, Cl. 36-50.000.

Morell, Joseph, to Salomon S.A. Device for tightening a flexible connecting element. 4,646,401, 3-3-87, Cl. 24-68.0SK.

Morell, Joseph; Benoit, Louis; and Bonnet, Maurice, to Salomon S.A. Ski boot. 4,653,204, 3-31-87, Cl. 36-117.000.

Morell, Joseph; Benoit, Louis; and Bonnet, Maurice, to Salomon S.A. Traction device for ski boot. 4,660,300, 4-28-87, Cl. 36-50.000.

Morell, Joseph; De Marchi, Jean-Louis; and Kopp, Norbert, to Salomon S.A. Alpine ski boot. 4,709,491, 12-1-87, Cl. 36-121.000.

Morell, Joseph; and Demarchi, Jean-Louis, to Salomon S.A. Closing and tightening apparatus for a rear-entry ski boot. 4,711,042, 12-8-87, Cl. 36-50.000.

Morell, Joseph; and Petrini, Roland, to Salomon S.A. Ski boot. 4,712,315, 12-15-87, Cl. 36-117.000.

Morell, Joseph: *See*—
Benoit, Louis; Nerrinck, Bernard; Morell, Joseph; and Petrini, Roland, 4,698,920, Cl. 36-50.000.
Petrini, Roland; and Morell, Joseph, 4,694,593, Cl. 36-120.000.

Morell, Lori A.; and Wessel, Joyce A., to Kimberly-Clark Corporation. Coverall with elastomeric panels. 4,670,913, 6-9-87, Cl. 2-227.000.

Morell, Theodore R. Pressure distribution pad assembly for wheelchairs. 4,682,818, 7-28-87, Cl. 297-452.000.

Morelli, Aldo. Trench box. 4,659,260, 4-21-87, Cl. 405-283.000.

Morelli, Aldo. Hydraulic filter system for excavation equipment. 4,663,034, 5-5-87, Cl. 210-132.000.

Morelli, Aldo. Excavator with extensible boom. 4,677,772, 7-7-87, Cl. 37-103.000.

Morelli, Aldo. Magnetic oil filter module. 4,705,626, 11-10-87, Cl. 210-130.000.

Morelli, Amedeo J.; and Gaylord, Francis L., to North American Philips Corporation. Method of manufacturing chip resistors with edge around terminations. 4,694,568, 9-22-87, Cl. 29-620.000.

Morelli, John A., to Automatic Connector, Inc. Connector for coaxial cable. 4,688,876, 8-25-87, Cl. 439-578.000.

Morelli, Thomas A.: *See*—
Abolins, Visvaldis; and Morelli, Thomas A., 4,681,906, Cl. 524-166.000.

Morellini, Peter. Protection apparatus. 4,635,781, 1-13-87, Cl. 192-150.000.

Morellini, Peter. Gripping apparatus. 4,682,716, 7-28-87, Cl. 222-529.000.

Morellini, Peter. Cane billet planter. 4,696,241, 9-29-87, Cl. 111-3.000.

Moren, Nils F. E.: *See*—
Andersson, Jan A. R.; Moren, Nils F. E.; Wetterlin, Kjell I. L.; Snellman Wasenius, Kaija A.; and Virtanen, Risto, 4,641,644, Cl. 128-200.230.

Moreno, Frederick E.; and Hartman, Creighton D., to PruTech II. Turbine exhaust fed low NO_x staged combustor for TEOR power and steam generation with turbine exhaust bypass to the convection stage. 4,706,612, 11-17-87, Cl. 122-7.00R.

Moreno, Frederick E.; and Hartman, Creighton D., to PruTech II. Primary stage combustor lining. 4,709,643, 12-1-87, Cl. 110-336.000.

Moreschi, Giovanni, to Latin Percussion, Inc. Portable musical instrument stand. 4,684,091, 8-4-87, Cl. 248-165.000.

Moret, Reinhold: *See*—
Bauer, Karl-Heinz; and Moret, Reinhold, 4,656,926, Cl. 98-2.000.

Moretti, Franco, to U.S. Philips Corporation. Thermal insulation bag for vacuum-packaging micropowder materials. 4,662,521, 5-5-87, Cl. 206-484.200.

Morey, Jean-Michel; and Paradis, Gilles, to Commissariat a l'Energie Atomique. Process for the heat treatment of a uranium alloy member. 4,701,225, 10-20-87, Cl. 148-132.000.

Morey, Mangala A.: *See*—
Urban, Carol A.; and Morey, Mangala A., 4,674,107, Cl. 378-98.000.

Morey, William W.; and Snitzer, Elias, to United States of America, Navy. Combustor fiberscope. 4,711,524, 12-8-87, Cl. 350-96.250.

Morflex Chemical Company, Inc.: *See*—
Hull, Ezekiel H.; and Frappier, Edward P., 4,710,532, Cl. 524-310.000.
Hull, Ezekiel H.; and Frappier, Edward P., 4,711,922, Cl. 524-310.000.

Morgan Adhesives Co.: *See*—
McClintock, Jack M., 4,704,315, Cl. 428-40.000.

Morgan, Annis R., Jr.; Mehlan, Bernd; Gress, Josef; Williford, Hugh S.; and Baumgartner, Gunter, to Coca-Cola Company, The. Refrigeration system for a counter-top or wall-mounted vending machine. 4,676,074, 6-30-87, Cl. 62-277.000.

Morgan, Arvid E., to Hughes Tool Company. Method for electroplating helical rotors. 4,650,549, 3-17-87, Cl. 204-25.000.

Morgan, Barry A., to Sterling Drug Inc. Analgesic and/or opiate antagonist tripeptide amides and processes for preparation and compositions thereof. 4,658,013, 4-14-87, Cl. 530-302.000.

Morgan, Bernard L.: *See*—
Quintana, Max A., 4,667,087, Cl. 235-380.000.

Morgan, Bill T.: *See*—
Mozer, Larry P.; and Morgan, Bill T., 4,650,629, Cl. 264-541.000.

Morgan, Brian, to Beecham-Wuelfing GmbH & Co. KG. Treatment of cerebrovascular disorders and/or disorders associated with cerebral senility. 4,657,910, 4-14-87, Cl. 514-263.000.

Morgan, Bryan J.: *See*—
Ford, Victoria L.; and Morgan, Bryan J., 4,711,275, Cl. 141-95.000.

Morgan, Charles, Jr. Livestock data indicator. 4,706,610, 11-17-87, Cl. 119-156.000.

Morgan, Charles G., to General Electric Co. (Alumina electrically conductive) guide article. 4,714,640, 12-22-87, Cl. 428-36.000.

Morgan, Charles L., III. Probeless fluid level controller. 4,637,424, 1-20-87, Cl. 137-392.000.

Morgan, Charles R.: *See*—
Sadat, Bahram; and Morgan, Charles R., 4,710,539, Cl. 525-59.000.

Morgan Construction Company: *See*—
Gilvar, Martin; Woodrow, Harold E.; and Nasrah, Camille S., 4,706,485, Cl. 72-239.000.
Koelling, Robert K., Sr., 4,637,807, Cl. 464-135.000.
Maroti, Endre S., 4,665,730, Cl. 72-205.000.
Smith, Daniel P., 4,666,403, Cl. 432-54.000.

Morgan Corporation: *See*—
Curran, Barry D., 4,673,048, Cl. 177-146.000.

Morgan, Dan R.: *See*—
Kupper, Philip L.; and Morgan, Dan R., 4,705,691, Cl. 426-590.000.

Morgan, David F., to Eaton Corporation. Load sensing priority system with bypass control. 4,663,936, 5-12-87, Cl. 60-422.000.

Morgan, David J., to Rockwell International Corporation. Electronic null-seeking goniometer for ADF. 4,654,664, 3-31-87, Cl. 342-440.000.

Morgan, David L., to Seymour-Sheridan, Inc. Swivel bellows assembly. 4,690,323, 9-1-87, Cl. 236-99.00F.

Morgan, David W.: *See*—
Addis, John L.; and Morgan, David W., 4,704,558, Cl. 315-10.000.

Morgan, Donald E., to Sony Corporation. Test signal generator. 4,635,096, 1-6-87, Cl. 358-10.000.

Morgan, Edward A., to Research Foundation of State University of New York, The. Novel bacteria containing a plasmid having a tRNA code. 4,654,307, 3-31-87, Cl. 435-253.000.

Morgan, Edward L.: *See*—
Cothran, Liggett A.; Morgan, Edward L.; Stevens, Robert E.; Holden, Homer N.; and Ensley, R. Neal, 4,655,986, Cl. 264-508.000.
Weigle, William O.; Hobbs, Monte O.; Morgan, Edward L.; Thoman, Marilyn L.; and Houghten, Richard A., 4,683,221, Cl. 514-14.000.

Morgan, Francis, to SSMC Inc. Rotating needle guard. 4,660,485, 4-28-87, Cl. 112-467.000.

Morgan, George J., to Stauffer Chemical Company. Recovery of phosphorus from sludge. 4,689,121, 8-25-87, Cl. 203-14.000.

Morgan, H. Scott: *See*—
Roth, Scott S.; Steinberg, Joe; and Morgan, H. Scott, 4,662,956, Cl. 148-175.000.

Morgan, Harry C., to McDonnell Douglas Corporation. Analog-to-digital conversion. 4,665,382, 5-12-87, Cl. 340-347.0AD.

Morgan, Howard F. Fiberglass gasoline tank repair process. 4,662,959, 5-5-87, Cl. 156-94.000.

Morgan Industries, Inc.: *See*—
Theis, Peter F., 4,692,817, Cl. 360-12.000.

Morgan, John A.; Bartula, William; and Gilbert, Richard D., to RJB Timing Systems, Inc. Aquatic event timing device. 4,657,403, 4-14-87, Cl. 368-6.000.

Morgan, John A. Powered reclining chair. 4,691,964, 9-8-87, Cl. 297-330.000.

Morgan, Larry J.: *See*—
Williams, Rodger W.; and Morgan, Larry J., 4,686,980, Cl. 128-303.130.

Morgan, Lee R. Method of treating herpes virus infections with N,N'-diacetylcystine and derivatives. 4,708,965, 11-24-87, Cl. 514-563.000.

Morgan, Melissa M.: *See*—
Israel, Cheryl; and Morgan, Melissa M., 4,685,599, Cl. 224-170.000.

Morgan, Michael A.: *See*—
Jansen, Frank; Mort, Joseph; Morgan, Michael A.; Grammatica, Steven J.; and Knights, John C., 4,634,647, Cl. 430-84.000.

Morgan, Michael E., to HiTek Polymers, Inc. Titanium-glycol useful as crosslinking agents for polygalactomannans. 4,677,201, 6-30-87, Cl. 536-114.000.

Morgan, Paul: *See*—
Moore, Robert H.; and Morgan, Paul, 4,682,847, Cl. 350-96.200.

Morgan, Peter E. D., to Rockwell International Corporation. Production of oxy-metallo-organic polymer. 4,698,417, 10-6-87, Cl. 528-395.000.

Morgan, Peyton L., III: *See*—
Childress, Jeffrey S.; Sihlanick, Mark M.; Smith, Michael W.; and Morgan, Peyton L., III, 4,658,435, Cl. 455-17.000.

Morgan, Rees: *See*—
Cheesmore, Royston A., deceased; and Morgan, Rees, 4,652,783, Cl. 310-249.000.

Morgan, Richard A.: *See*—
Buckmaster, Martin D.; and Morgan, Richard A., 4,675,380, Cl. 528-481.000.

Morgan, Robert L.: *See*—
Geer, Ralph D.; Morgan, Robert L.; and Senek, Dexter S., 4,705,260, Cl. 266-78.000.
Raymond, William J.; Morgan, Robert L.; and Miller, Ricky L., 4,639,877, Cl. 364-513.500.
Raymond, William J.; Morgan, Robert L.; and Miller, Ricky L., 4,675,840, Cl. 364-513.500.

Morgan, Scott J. Tape splicing mechanism. 4,636,279, 1-13-87, Cl. 156-506.000.

Morgan, Stephen E.: *See*—
Cox, John C.; Morgan, Stephen E.; Hamblett, Martin; and Rubini, Alfred, 4,714,407, Cl. 415-192.000.

Morgan, Tamara M.; Roig, Richard R.; and Hrehovcik, Michael, to Morgan, Tamara M. Rotatable storage device. 4,700,850, 10-20-87, Cl. 211-131.000.

Morgan, Ted A.: *See*—
Silvis, H. Craig; and Morgan, Ted A., 4,672,102, Cl. 528-97.000.

Morgan, Thomas E., to Minnesota Mining and Manufacturing Company. Low profile test clip and handle therefor. 4,639,058, 1-27-87, Cl. 339-17.0CF.

Morgan, Thomas K., Jr.: *See*—
Dumond, Julius; Lumma, William C., Jr.; Morgan, Thomas K., Jr.; and Wohl, Ronald A., 4,689,341, Cl. 514-399.000.

Morgan, Thomas R., to Allied Corporation. Removal of ammonium ion from acidic liquors. 4,680,169, 7-14-87, Cl. 423-53.000.

Morgan, Vernon B.; and McKinney, Janet F. Core breaker. 4,669,786, 6-2-87, Cl. 299-76.000.

Morgan, Wayne F.: *See*—
Mendiratta, Ashok K.; and Morgan, Wayne F., 4,634,761, Cl. 528-500.000.
Mendiratta, Ashok K.; and Morgan, Wayne F., 4,663,027, Cl. 208-262.000.
Mendiratta, Ashok K.; and Morgan, Wayne F., 4,668,768, Cl. 528-493.000.

Morgand, Jean P., to Thomson CSF. Electroacoustic transducer with piezoelectric diaphragm. 4,692,942, 9-8-87, Cl. 381-114.000.

Morganite Electrical Carbon Limited: *See*—
Baldwin, David G.; and White, Albert E. S., 4,646,001, Cl. 324-65.00P.
Cheesmore, Royston A., deceased; and Morgan, Rees, 4,652,783, Cl. 310-249.000.

Morganson, Stephen A.: *See*—
Majewski, Donna M.; and Morganson, Stephen A., 4,642,258, Cl. 428-68.000.

Morganstein, Sanford J.; Tuck, Edward F.; Mehta, Bakulesh A.; and Krakau, Herbert B., to Dytel Corporation. PBX Intercept and caller interactive attendant bypass system. 4,696,028, 9-22-87, Cl. 379-88.000.

Morganti, Victor M.; and Prange, Patrick E., to Honeywell Information Systems Inc. Call instruction for ring crossing architecture. 4,703,417, 10-27-87, Cl. 364-200.000.

Morgavo, Joseph. Trailing distance and safe passing indicator for trailer. 4,645,315, 2-24-87, Cl. 350-600.000.

Morgenrath, Jali. Electrical connector securing system. 4,690,476, 9-1-87, Cl. 439-502.000.

Morgenstern, Bernd; Weigend, Helmut; and Reinhardt, Peter, to Veb Kombinat Polygraph "Werner Lamberz" Leipzig. Device for measuring ink density on printed surfaces. 4,690,564, 9-1-87, Cl. 356-445.000.

Morgenstern, Bernd: *See*—
Weigend, Helmut; Morgenstern, Bernd; and Reinhardt, Peter, 4,712,918, Cl. 356-429.000.

Morgenstern, Jurgen. Physiological test probe. 4,644,956, 2-24-87, Cl. 128-642.000.

Morgenthaler, Lee N.; Christenson, Thomas A.; and Radecki, Peter P., Jr., to Shell Oil Company. Process for coating a pipe interior with cross-linked block copolymer. 4,670,305, 6-2-87, Cl. 427-239.000.

Morgenthaler, William W.: *See*—
Dolan, Michael J.; Rapko, John N.; and Morgenthaler, William W., 4,645,623, Cl. 252-558.000.
Dolan, Michael J.; Rapko, John N.; and Morgenthaler, William W., 4,687,593, Cl. 252-182.000.

Morgner, Friedrich W.; and Hock, Franz, to Temafa Textilmaschinenfabrik. Apparatus for mixing textile fibers. 4,706,337, 11-17-87, Cl. 19-80.00R.

Morguet, Hermann; Hobes, John; Spaleck, Walter; and Payer, Wolfgang, to Ruhrchemie Aktiengesellschaft. Process for the homo- and copolymerization of ethylene. 4,663,301, 5-5-87, Cl. 502-110.000.

Morhaim, Claude: *See*—
Baudry, Hugues; Monneraye, Marc A.; and Morhaim, Claude, 4,636,257, Cl. 106-19.000.

Mori, Akinori, to Sumitomo Electric Industries, Ltd. Shielded electric wires. 4,638,114, 1-20-87, Cl. 174-36.000.

Mori, Akio: *See*—
Saito, Mitsuo; Aikawa, Takeshi; and Mori, Akio, 4,660,181, Cl. 365-230.000.
Saito, Mitsuo; Aikawa, Takeshi; and Mori, Akio, 4,688,032, Cl. 340-799.000.

Mori, Akira: *See*—
Amazawa, Kiyoshi; and Mori, Akira, 4,682,045, Cl. 307-125.000.

Amazawa, Kiyoshi; and Mori, Akira, 4,701,715, Cl. 328-165.000.

Mori, Atsushi, to Sanshin Kogyo Kabushiki Kaisha. Lubricating system for two-cycle internal combustion engine. 4,638,771, 1-27-87, Cl. 123-73.0AD.

Mori, Carlo: *See*—
Baecchi, Alfredo; Bozzolini, Aldo; Santoni, Tancredo; and Mori, Carlo, 4,646,626, Cl. 99-275.000.

Mori, Chuzo, to Carl Manufacturing Co., Ltd. Index device. 4,685,232, 8-11-87, Cl. 40-381.000.

Mori, Eiji: *See*—
Harashima, Tadashi; Morita, Hideo; and Mori, Eiji, 4,700,676, Cl. 123-339.000.
Ito, Takaaki; Mori, Eiji; Uranishi, Koji; Miyazaki, Shinji; and Sugimoto, Junichi, 4,715,509, Cl. 220-86.00R.

Mori, Fumio: *See*—
Inaba, Michihiko; Fujiwara, Tetsuo; Kanto, Masaharu; Ohtake, Yasuhisa; and Mori, Fumio, 4,698,545, Cl. 313-402.000.

Mori, Giorgio B. Kiln for firing heavy ceramics. 4,640,683, 2-3-87, Cl. 432-134.000.

Mori, Hideharu; Koyama, Shozi; and Yamazaki, Masahiro, to Hitachi, Ltd. Method and apparatus for separating of product gas from raw gas. 4,696,689, 9-29-87, Cl. 62-32.000.

Mori, Hideki: *See*—
Nagato, Nobuyuki; Mori, Hideki; Maki, Kenichiro; and Ishioka, Ryoji, 4,634,784, Cl. 549-521.000.

Mori, Hiroaki: *See*—
Toya, Akihiro; Kagawa, Junichi; Yokota, Kazunori; and Mori, Hiroaki, 4,659,960, Cl. 313-141.000.

Mori, Hiromichi: *See*—
Kinoshita, Toshiyuki; Arai, Toshiaki; Sato, Takay; Kubo, Takashige; Yoshizawa, Yasufumi; and Mori, Hiromichi, 4,703,422, Cl. 364-200.000.

Mori, Hiroshi. Process for manufacturing a single piece aluminum alloy wheel rim for vehicle tires. 4,693,104, 9-15-87, Cl. 72-68.000.

Mori, Hiroshi, to Sony Corporation. Electrochromic display device. 4,693,564, 9-15-87, Cl. 350-357.000.

Mori, Hiroshi: *See*—
Sasaki, Isao; Mori, Hiroshi; and Fujimoto, Masaharu, 4,647,650, Cl. 528-274.000.
Sasaki, Isao; and Mori, Hiroshi, 4,687,811, Cl. 525-100.000.

Mori, Hirotaro; and Fujita, Hiroshi, to Osaka University. Method of controlling supersaturated injection and concentration of exotic atoms into deep portions of a solid with a high energy electron beam. 4,670,291, 6-2-87, Cl. 427-35.000.

Mori, Hiroyoshi: *See*—
Sato, Kazuhiro; and Mori, Hiroyoshi, 4,661,879, Cl. 361-58.000.
Sato, Kazuhiro; Iijima, Yoshimi; and Mori, Hiroyoshi, 4,670,874, Cl. 370-110.100.

Mori, Hisako: *See*—
Sato, Toshiaki; Mori, Hisako; Horio, Yashuhiko; Tabuchi, Kastumi; Matsumoto, Nobuo; and Nishii, Kazuhiko, 4,712,160, Cl. 361-388.000.

Mori, Hitoshi, to Matsushita Electric Industrial Co., Ltd. Apparatus for scrambling and descrambling communication signals. 4,639,777, 1-27-87, Cl. 358-120.000.

Mori, Isao, to Brother Kogyo Kabushiki Kaisha. Device for controlling DC motor. 4,661,750, 4-28-87, Cl. 318-326.000.

Mori, Katsuhiro: *See*—
Kito, Masahiro; and Mori, Katsuhiro, 4,691,761, Cl. 165-32.000.
Kito, Masahiro; and Mori, Katsuhiro, 4,694,894, Cl. 165-135.000.

Mori, Katsuyuki: *See*—
Yamagishi, Kenich; and Mori, Katsuyuki, 4,643,092, Cl. 101-350.000.

Mori, Kazuhide; Tamata, Shin; and Kikuchi, Makoto, to Hitachi, Ltd. Process and apparatus for solidification of radioactive waste. 4,671,897, 6-9-87, Cl. 252-628.000.

Mori, Kazumasa: *See*—
Sada, Takeshi; Kato, Hidetoshi; Shibata, Hiroshi; Mori, Kazumasa; Mayumi, Nobuo; Sato, Hirohide; Akita, Yoshio; and Tanaka, Shigeru, 4,665,354, Cl. 320-64.000.

Mori, Kazuo; and Isowa, Eiichi, to Isowa Industry Company, Ltd. Method and apparatus for glueing and preheating corrugated board. 4,655,870, 4-7-87, Cl. 156-285.000.

Mori, Kazutaka: *See*—
Asaeda, Masashi; Mori, Kazutaka; and Makihara, Hiroshi, 4,692,354, Cl. 427-244.000.

Mori, Kei. Solar ray collecting device for use in a spacecraft. 4,634,086, 1-6-87, Cl. 244-173.000.

Mori, Kei. Light diverting device. 4,636,028, 1-13-87, Cl. 350-96.150.

Mori, Kei. Method of using a condensing lens. 4,643,524, 2-17-87, Cl. 350-320.000.

Mori, Kei. Light radiating device. 4,645,313, 2-24-87, Cl. 350-486.000.

Mori, Kei. Apparatus for plant culture. 4,653,223, 3-31-87, Cl. 47-17.000.

Mori, Kei. Solar ray energy collecting device. 4,653,472, 3-31-87, Cl. 126-440.000.

Mori, Kei. Structure and implement for positioning the light-receiving edge of the light conductor onto the focus of the lens. 4,659,176, 4-21-87, Cl. 350-96.180.

Mori, Kei. Apparatus for plant cultivation. 4,662,106, 5-5-87, Cl. 47-17.000.

Mori, Kei. Integrated construction of a large number of optical conductor cables. 4,662,714, 5-5-87, Cl. 350-96.200.

Mori, Kei. Apparatus for time-sharing light distribution. 4,669,817, 6-2-87, Cl. 350-96.150.

Mori, Kei. Cultivation device by use of water-and-air mixture. 4,676,023, 6-30-87, Cl. 47-82.000.

Mori, Kei. Light rays bathtub. 4,676,226, 6-30-87, Cl. 126-439.000.

Mori, Kei. Optical conductor tube and its connecting member. 4,676,587, 6-30-87, Cl. 350-96.200.

Mori, Kei. Apparatus for photosynthesis. 4,676,956, 6-30-87, Cl. 422-186.000.

Mori, Kei. Method of producing a photoradiator device. 4,678,279, 7-7-87, Cl. 350-320.000.

Mori, Kei. Device for diverting the direction of light travelling through an optical conductor. 4,682,844, 7-28-87, Cl. 350-96.150.

Mori, Kei. Device for diverting light through a plurality of optical conductor rods. 4,684,209, 8-4-87, Cl. 350-96.150.

Mori, Kei. Connecting structure for an optical conductor tube. 4,688,887, 8-25-87, Cl. 350-96.210.

Mori, Kei. Light diverting device. 4,690,490, 9-1-87, Cl. 350-96.150.

Mori, Kei. Underwater fish feeding plant. 4,699,086, 10-13-87, Cl. 119-3.000.

Mori, Kei. Concentrated fish feeding device. 4,699,087, 10-13-87, Cl. 119-3.000.

Mori, Kei. Transparent optical conductor for reflecting and radiating out of the conductor light rays transmitted through the conductor. 4,699,448, 10-13-87, Cl. 350-96.100.

Mori, Kei. Device for diverting a portion of light energy transmitted through an optical conductor. 4,699,450, 10-13-87, Cl. 350-96.150.

Mori, Kei. Light source device. 4,702,546, 10-27-87, Cl. 350-96.100.

Mori, Kei. Fish feeding device. 4,703,719, 11-3-87, Cl. 119-3.000.

Mori, Kei. Light radiator for diffusing and radiating light rays. 4,703,995, 11-3-87, Cl. 350-96.100.

Mori, Kei. Light radiator. 4,709,304, 11-24-87, Cl. 362-32.000.

Mori, Kei. Optical communication system. 4,709,411, 11-24-87, Cl. 455-601.000.

Mori, Kei. Connecting structure for connecting optical conductors. 4,709,981, 12-1-87, Cl. 350-96.210.

Mori, Kei. Light radiator. 4,709,999, 12-1-87, Cl. 350-486.000.

Mori, Kei. Light radiator for diffusing light rays which have been transmitted through an optical conductor. 4,711,513, 12-8-87, Cl. 350-96.100.

Mori, Keiji, to Fuji Photo Film Co., Ltd. Method of making magnetic head. 4,646,429, 3-3-87, Cl. 29-603.000.

Mori, Keiji: *See*—
Iida, Norikazu; Fukumoto, Ryoichi; and Mori, Keiji, 4,699,024, Cl. 74-805.000.
Iwasaki, Takashi; and Mori, Keiji, 4,644,215, Cl. 310-367.000.

Mori, Keijiro: *See*—
Yamane, Shigeki; Mori, Keijiro; and Sakamoto, Kyooya, 4,691,269, Cl. 363-41.000.

Mori, Keijirou: *See*—
Katayama, Akifumi; Mori, Keijirou; and Ueda, Satoshi, 4,672,560, Cl. 364-556.000.
Katayama, Akifumi; Mori, Keijirou; Ueda, Satoshi; and Suwa, Katsuhiko, 4,672,561, Cl. 364-556.000.

Mori, Keiki: *See*—
Masuda, Mitsuyoshi; Mori, Keiki; and Yukimoto, Kazuyoshi, 4,659,141, Cl. 296-223.000.

Mori, Kenji: *See*—
Enzaki, Yoshiki; Kitahara, Kazuki; Terasaka, Satoru; Mori, Kenji; and Kimura, Takeshi, 4,695,247, Cl. 431-352.000.
Nakazono, Yutaka; and Mori, Kenji, 4,687,863, Cl. 549-302.000.
Okumura, Tsuguo; Yamagishi, Naomichi; Abe, Kazuharu; Sugiyama, Masayoshi; and Mori, Kenji, 4,698,195, Cl. 264-235.800.
Saeki, Osamu; Mori, Kenji; Onoda, Mamoru; Watanabe, Ryo; Shinohara, Katsufumi; Ashie, Takehiko; and Imanishi, Nobuyuki, 4,678,508, Cl. 75-26.000.
Shibata, Nobuo; Hirai, Akira; Nakajima, Jun; Mori, Kenji; and Akatsu, Toshio, 4,667,082, Cl. 219-124.340.
Yamagishi, Naomichi; Mori, Kenji; Okumura, Tsuguo; Hiratsuka, Tatsufumi; and Sugiyama, Masayoshi, 4,634,840, Cl. 219-388.000.

Mori, Kenjiro: *See*—
Kihara, Yasuo; Mori, Kenjiro; Kawasaki, Takashi; and Ushiyama, Keiichi, 4,666,977, Cl. 524-805.000.

Mori, Kenzo; Yasuda, Hyo; and Suzuki, Minoru, to Taiyo Musen Co. Ltd. Antenna device for direction finders. 4,635,065, 1-6-87, Cl. 342-435.000.

Mori, Kinji; Miyamoto, Shoji; and Ihara, Hirokazu, to Hitachi, Ltd. Communication network system. 4,672,373, 6-9-87, Cl. 340-825.050.

Mori, Kinji; Miyamoto, Shoji; and Ihara, Hirokazu, to Hitachi, Ltd. Method and apparatus for coordination among distributed subsystems. 4,698,629, 10-6-87, Cl. 340-825.050.

Mori, Kinji: *See*—
Orimo, Masayuki; Mori, Kinji; and Miyamoto, Shoji, 4,677,615, Cl. 370-89.000.

Mori, Kinya: *See*—
Asakuno, Hiroyoshi; Mori, Kinya; Suzuki, Kiyoaki; Nishida, Mamoru; Iwai, Kenji; Tamamushi, Masahiro; and Kawasaki, Teruo, 4,638,030, Cl. 524-536.000.

Mori, Kohei; and Suzuki, Haruo, to Jidosha Kika Co., Ltd. Brake booster of tandem type. 4,658,704, 4-21-87, Cl. 91-369.00R.

Mori, Koichi, to NEC Corporation. Antenna tracking device. 4,675,680, 6-23-87, Cl. 342-352.000.

Mori, Koichi: *See*—
Morimoto, Isao; Itagaki, Kazuyoshi; and Mori, Koichi, 4,670,345, Cl. 428-411.100.

Mori, Kouichi: *See*—
Mori, Satoshi; Egami, Tsuneyuki; Mori, Kouichi; Nohira, Hidetaka; and Yoshimura, Kunimasa, 4,661,695, Cl. 250-227.000.

Mori, Kunio: *See*—
Iwasaki, Yoshitaka; Mori, Kunio; and Tanabe, Yoshio, 4,700,791, Cl. 177-2.000.

Mori, Kyozo: *See*—
Tanaka, Kazunobu; and Mori, Kyozo, 4,678,602, Cl. 252-513.000.

Mori Machinery Co., Ltd.: *See*—
Ishikawa, Kazutomi, 4,673,319, Cl. 409-234.000.

Mori, Makihiko; Kibe, Satoshi; and Maeda, Toyohiro, to Osaka Gas Company Limited. Process for preparing pitch. 4,640,761, 2-3-87, Cl. 208-44.000.

Mori, Masaaki; Sano, Akira; Horiuchi, Yushi; and Okumura, Yoshihiro, to Director-General of Agency of Industrial Science & Technology. Apparatus for manufacturing powdered silicon nitride. 4,640,023, 2-3-87, Cl. 34-57.00A.

Mori, Masaaki; and Okada, Chiharu, to Ricoh Company, Ltd. Thermal recording system using unregulated power supply. 4,684,959, 8-4-87, Cl. 346-76.0PH.

Mori, Masaaki: *See*—
Kawakami, Toshio; Mori, Masaaki; and Okada, Chiharu, 4,688,051, Cl. 346-76.0PH.
Yoshida, Taizo; Mori, Masaaki; Koyama, Jiro; and Haruna, Masamitsu, 4,648,687, Cl. 350-96.130.

Mori, Masahiko; and Otagaki, Yoshio, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Rudder with wings and method for manufacture thereof. 4,653,418, 3-31-87, Cl. 114-162.000.

Mori, Masahito: *See*—
Ogata, Mikito; Mori, Masahito; Doi, Takashi; Miyazaki, Michio; and Oka, Takafumi, 4,638,472, Cl. 369-54.000.
Ogata, Mikito; Mori, Masahito; Doi, Takashi; and Miyazaki, Michio, 4,677,606, Cl. 369-59.000.

Mori, Masakazu: *See*—
Soeda, Kazuhiko; Mori, Masakazu; Nishikawa, Tsutomu; and Tominori, Kiyoshi, 4,710,022, Cl. 356-73.100.

Mori, Masanori: *See*—
Furukawa, Tamotsu; and Mori, Masanori, 4,674,345, Cl. 74-335.000.
Nakao, Toshiyuki; Furukawa, Tamotsu; and Mori, Masanori, 4,653,352, Cl. 74-866.000.
Takagi, Yoshito; Wakahara, Yasuyuki; Hamano, Satoru; Mori, Masanori; Hamaguchi, Masayuki; and Yoshikawa, Naoki, 4,673,838, Cl. 310-239.000.

Mori, Masashi; Nonaka, Shingo; and Nagai, Seiji, to Shinagawa Refractories Co., Ltd. Apparatus for mixing and pumping slurry. 4,695,167, 9-22-87, Cl. 366-181.000.

Mori, Maurizio; Babuin, Piero; and Cargnel, Giuseppe, to Zanussi Elettrodomestici S.p.A. Controlling device for clothes washing machine. 4,711,103, 12-8-87, Cl. 68-12.00R.

Mori, Michio: *See*—
Terada, Kimio; Mori, Michio; Goto, Yoichi; Nakazawa, Takashi; Muto, Kunio; and Usami, Shozo, 4,637,937, Cl. 426-570.000.

Mori, Mitio: *See*—
Morishita, Takashi; Hata, Takehisa; Mori, Mitio; and Tanoue, Shohachi, 4,695,466, Cl. 424-456.000.

Mori, Nobufumi; Takahashi, Kenji; and Horikawa, Kazuo, to Fuji Photo Film Co., Ltd. Radiation image read-out method and apparatus. 4,636,641, 1-13-87, Cl. 250-327.200.

Mori, Nobufumi; Hosoi, Yuichi; Takahashi, Kenji; and Miyahara, Junji, to Fuji Photo Film Co., Ltd. Method of detecting a focus defect of an electron microscope image. 4,695,725, 9-22-87, Cl. 250-327.200.

Mori, Nobufumi; Hosoi, Yuichi; Takahashi, Kenji; and Miyahara, Junji, to Fuji Photo Film Co., Ltd. Method of recording and reproducing an electron microscope image. 4,700,071, 10-13-87, Cl. 250-327.200.

Mori, Nobufumi: *See*—
Hosoi, Yuichi; Miyahara, Junji; Mori, Nobufumi; and Takahashi, Kenji, 4,651,220, Cl. 358-256.000.
Hosoi, Yuichi; Mori, Nobufumi; Takahashi, Kenji; and Miyahara, Junji, 4,694,171, Cl. 250-311.000.

Mori, Nobuhisa: *See*—
Ito, Settoku; Iwashita, Shigeo; Kamiya, Sigeru; Noguchi, Hiroshi; and Mori, Nobuhisa, 4,633,706, Cl. 73-28.000.

Mori, Nobuyuki: *See*—
Oshima, Yujiro; Yamada, Masatoshi; Mori, Nobuyuki; Sugiyama, Katsuhiko; Aoyama, Taro; Saito, Akinori; and Kozuka, Kazuhiro, 4,633,830, Cl. 123-276.000.

Mori, Saburo: *See*—
Nomura, Hirokazu; Sato, Yukihiko; Morishige, Eiji; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,672,173, Cl. 219-125.100.
Nomura, Hirokazu; Sato, Yukihiko; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,686,341, Cl. 219-54.000.

Mori, Sadao; and Akatsu, Toshio, to Hitachi, Ltd. Method of and apparatus for optically measuring displacement. 4,708,481, 11-24-87, Cl. 356-358.000.

Mori, Sanae, to Daido Metal Company Ltd. Wrapped cylindrical bush. 4,655,615, 4-7-87, Cl. 384-286.000.

Mori, Sanae, to Daido Metal Company Ltd. Sliding and bearing material having superior wear resisting property. 4,655,944, 4-7-87, Cl. 252-12.200.

Mori, Sanae, to Daido Metal Company Ltd. Device for measuring interference and wall thickness of a half cylindrical plain bearing. 4,663,857, 5-12-87, Cl. 33-517.000.

Mori, Sanae, to Daido Metal Company Ltd. Composition for sliding member. 4,703,076, 10-27-87, Cl. 524-420.000.

Mori, Satoshi; Egami, Tsuneyuki; Mori, Kouichi; Nohira, Hidetaka; and Yoshimura, Kunimasa, to Nippon Soken, Inc.; and Toyota Jidosha Kabushiki Kaisha. Optical apparatus and method for detecting the top dead center position of an engine piston. 4,661,695, 4-28-87, Cl. 250-227.000.

Mori, Satoshi: *See*—
Majumdar, Gourab; and Mori, Satoshi, 4,672,245, Cl. 307-570.000.

Mori, Shigeki, to Murata Kikai Kabushiki Kaisha. Traverse motion. 4,657,195, 4-14-87, Cl. 242-43.00R.

Mori, Shigeo; and Matsumoto, Junichiro, to Dai-Ichi Kogyo Seiyaku Co., Ltd. Polyethers having tertiary alcoholic terminals. 4,703,114, 10-27-87, Cl. 536-4.100.

Mori, Shigeo: *See*—
Nakamura, Itsushi; Mori, Shigeo; and Nozaki, Hiroshi, 4,658,092, Cl. 174-182.000.

Mori, Shigeru; and Takahashi, Takayuki, to Shin-Etsu Chemical Co., Ltd. Silicone grease composition. 4,701,272, 10-20-87, Cl. 252-28.000.

Mori, Shigetatu: *See*—
Hakoyama, Soichi; Mori, Shigetatu; Takebe, Yoshiyuki; and Imaoka, Kanya, 4,638,624, Cl. 57-208.000.

Mori, Shingo: *See*—
Okumura, Munehiro; Kuwahara, Kazuo; Arita, Masujiro; Mori, Shingo; Ohmura, Tetsuya; Yamamoto, Osamu; and Ishii, Shinichi, 4,668,401, Cl. 210-650.000.

Mori, Shinji, to Kabushiki Kaisha Tokai-Rika-Denki-Seisakusho. Lock mechanism for webbing retractor. 4,687,156, 8-18-87, Cl. 242-107.40A.

Mori, Shinji, to Kabushiki Kaisha Tokai-Rika-Denki-Seisakusho. Webbing wind-up force limiting apparatus. 4,711,408, 12-8-87, Cl. 242-107.000.

Mori, Shinji: *See*—
Izuchi, Shingo; Tamura, Keiichi; and Mori, Shinji, 4,667,894, Cl. 242-107.40A.

Mori, Shinsaku: *See*—
Kikuchi, Makoto; Mori, Shinsaku; Nikawa, Yoshio; and Terakawa, Takashige, 4,690,156, Cl. 128-804.000.

Mori, Shisaku: *See*—
Kikuchi, Makoto; Mori, Shinsaku; Nikawa, Yoshio; and Terakawa, Takashige, 4,690,156, Cl. 128-804.000.

Mori, Shoichi: *See*—
Fujii, Shigeo; Mori, Shoichi; and Tabuchi, Jyoichi, 4,659,617, Cl. 428-221.000.

Mori, Shoichiro; and Ue, Makoto, to Mitsubishi Petrochemical Co., Ltd. Electrolyte solution for electrolytic capacitor. 4,715,976, 12-29-87, Cl. 252-62.200.

Mori, Shojiro, to Kabushiki Kaisha Toshiba. Logic circuit with self-test. 4,682,331, 7-21-87, Cl. 371-25.000.

Mori, Shosuke; Sakurai, Atsushi; Aoki, Satoshi; and Suzuki, Tatsuya, to Fujitsu Limited. Multiprocessor system. 4,716,526, 12-29-87, Cl. 364-200.000.

Mori, Shosuke: *See*—
Fujisaku, Kimihori; Awaga, Makoto; and Mori, Shosuke, 4,684,935, Cl. 340-717.000.

Mori, Shuichi: *See*—
Tokumo, Akio; Takagi, Kazunori; and Mori, Shuichi, 4,696,370, Cl. 181-141.000.

Mori, Shunji; Tajima, Shinobu; and Itoh, Atsushi, to Mitsubishi Denki Kabushiki Kaisha. Robot control apparatus. 4,705,451, 11-10-87, Cl. 414-70.000.

Mori, Shunji: *See*—
Baba, Kenji; Watanabe, Shoji; Nogita, Shunsuke; Yoda, Mikio; Tanaka, Akihiro; and Mori, Shunji, 4,654,139, Cl. 210-85.000.

Mori, Sumio, to Fuji Photo Film Co., Ltd. Adaptive type compression method for compressing a color image by imparting predetermined variable-length codes to combinations of quantized values based upon quantized prediction error components. 4,656,500, 4-7-87, Cl. 358-13.000.

Mori, Susumu, to Nippon Kogaku K. K. "High magnification change rate zoom lens system. 4,657,351, 4-14-87, Cl. 350-427.000.

Mori, Takaaki: *See*—
Ito, Toshiyasu; Mori, Takaaki; Minoura, Jun; and Shimada, Junichi, 4,664,934, Cl. 427-38.000.

Mori, Takanobu; Fukui, Yutaka; Kashimura, Tetsuo; and Yanai, Yoshimi, to Hitachi, Ltd. Electric rotary machine having superconducting rotor. 4,642,495, 2-10-87, Cl. 310-52.000.

Mori, Takashi; Ohi, Nobuhiro; Ohsugi, Yoshiyuki; and Yamashita, Yasuhiro, to Chugai Seiyaku Kabushiki Kaisha. Pyridine derivatives and their use as anti-allergic agents. 4,691,018, 9-1-87, Cl. 546-309.000.

Mori, Takashi; Fukuda, Kenichi; and Kurauchi, Yasuhiro, to Toyo Soda Manufacturing Co., Ltd. Method for separating an acid and an alkali from an aqueous solution of a salt. 4,707,234, 11-17-87, Cl. 204-182.300.

Mori, Takashi: *See*—
Koga, Hiroshi; Mori, Takashi; Dan, Takashi; and Akima, Michitaka, 4,661,607, Cl. 549-383.000.
Shimizu, Yoshiyuki; and Mori, Takashi, 4,666,256, Cl. 350-414.000.

Mori, Takasuke: *See*—
Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke; and Fujimoto, Takahiko, 4,637,453, Cl. 164-468.000.
Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke; and Fujimoto, Takahiko, 4,671,335, Cl. 164-468.000.

Mori, Takehiko: *See*—
Inokuchi, Hiroo; Saito, Gunji; Seki, Kazuhiko; and Mori, Takehiko, 4,691,028, Cl. 549-36.000.

Mori, Teiichiro: *See*—
Osafune, Haruo; Kanbe, Sadao; Mori, Teiichiro; and Ikejiri, Masahisa, 4,680,045, Cl. 65-17.000.

Mori, Teijiro; Wada, Yuichi; Sako, Yuji; Tazawa, Hiroaki; and Okado, Hiroyuki, to Mitsubishi Denki Kabushiki Kaisha. Switch. 4,642,429, 2-10-87, Cl. 200-144.00R.
Mori, Teijiro; Wada, Yuichi; Nishizako, Shizutaka; Kakizoe, Masahiro; and Masuda, Shigeru, to Mitsubishi Denki Kabushiki Kaisha. Power switch. 4,652,707, 3-24-87, Cl. 200-144.00R.
Mori, Terumi: *See*—
Ito, Makoto; Mori, Terumi; and Takahashi, Hiroyoshi, 4,686,879, Cl. 84-440.000.
Mori, Teruo: *See*—
Takeda, Makoto; Iwane, Hiroshi; Yoshida, Akira; and Mori, Teruo, 4,700,008, Cl. 568-374.000.
Mori, Tetsuzo: *See*—
Ozawa, Kunitaka; Nakamura, Takashi; Katayama, Akira; Hatanaka, Katsunori; Mori, Tetsuzo; and Takaoka, Makoto, 4,716,421, Cl. 346-140.00R.
Ozawa, Masakazu; Ozawa, Kunitaka; Hatanaka, Katsunori; Suzuki, Tetsuo; Mori, Tetsuzo; Shiina, Tadashi; and Ebinuma, Ryuichi, 4,651,173, Cl. 346-136.000.
Mori, Tohru; Hongo, Takayasu; and Kamikura, Rinzo, to Kanzaki Paper Manufacturing Co., Ltd. Image-receiving sheet for heat transfer recording system. 4,639,751, 1-27-87, Cl. 346-227.000.
Mori, Tohru; Kohashi, Makoto; and Ariki, Yoshio, to Hitachi, Ltd. Loudspeaker structure and system. 4,653,103, 3-24-87, Cl. 381-99.000.
Mori, Toshihiko: *See*—
Komiya, Yutaka; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Mori, Toshihiko, 4,647,188, Cl. 355-55.000.
Nakayama, Tomobumi; Mori, Toshihiko; Hirose, Masayuki; Ohbuchi, Toru; Miyata, Masanori; Nakamura, Shinichi, and Honjo, Takeshi, 4,712,908, Cl. 355-14.0SH.
Mori, Toshihito: *See*—
Watanabe, Isamu; Kamiya, Kazuhiro; Torii, Takahiro; and Mori, Toshihito, 4,647,656, Cl. 536-16.100.
Mori, Toshikatsu: *See*—
Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunko; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Jinichi; Honji, Akio; Takeuchi, Masato; and Tamura, Kohki, 4,643,957, Cl. 429-41.000.
Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, to Matsushita Electric Industrial Co., Ltd. Semiconductor memory with constant readout capability. 4,635,231, 1-6-87, Cl. 365-190.000.
Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, to Matsushita Electric Industrial Co., Ltd. Image processor. 4,635,292, 1-6-87, Cl. 382-41.000.
Mori, Toshimichi: *See*—
Shitaokoshi, Sachiro; Sekiguchi, Mamoru; Takagi, Toshiaki; and Mori, Toshimichi, 4,705,497, Cl. 604-4.000.
Mori, Toshio, to Sony Corporation. Process for manufacturing a double refraction plate. 4,657,350, 4-14-87, Cl. 350-400.000.
Mori, Toshiyuki, to Disco Abrasive Systems, Ltd. Semiconductor wafer surface grinding apparatus. 4,693,036, 9-15-87, Cl. 51-131.300.
Mori, Yasuharu: *See*—
Tokuno, Masateru; Sawada, Tetsuya; and Mori, Yasuharu, 4,658,723, Cl. 101-181.000.
Tokuno, Masateru; Sawada, Tetsuya; and Mori, Yasuharu, 4,696,212, Cl. 83-343.000.
Mori, Yasuki; and Kamiya, Akihiro, to Tokyo Shibaura Denki Kabushiki Kaisha. Small metal halide lamp. 4,634,927, 1-6-87, Cl. 313-486.000.
Mori, Yasuki: *See*—
Kawanishi, Tsuneaki; Mori, Yasuki; Noguchi, Koji; and Iimura, Tsutomu, 4,640,880, Cl. 430-106.600.
Oka, Hiroyuki; Akasaka, Shinichi; Ohara, Shuichi; Hattori, Shintaroo; Mori, Yasuki; Narahara, Toshikazu; and Matsumoto, Hiroshi, 4,690,858, Cl. 428-216.000.
Shimizu, Ryuichi; Mori, Yasuki; Kawanishi, Tsuneaki; Isoo, Osamu; Morishita, Hirosada; and Hosoda, Tooru, 4,680,058, Cl. 106-23.000.
Mori, Yasushi, to Nissan Motor Company, Limited. System and method for supplying fuel to a vehicular internal combustion engine. 4,674,458, 6-23-87, Cl. 123-333.000.
Mori, Yasushi, to Nissan Motor Co., Ltd. Control for shock-free shift in an automatic transmission. 4,680,988, 7-21-87, Cl. 74-865.000.
Mori, Yasushi, to Nissan Motor Company, Limited. System and method for controlling fuel supply to a vehicular internal combustion engine with fuel supply cutoff function. 4,694,796, 9-22-87, Cl. 123-325.000.
Mori, Yasushi, to Nissan Motor Company, Limited. Fuel injection control system for internal combustion engine with asynchronous fuel injection for fuel supply resumption following temporary fuel cut-off. 4,694,807, 9-22-87, Cl. 123-501.000.
Mori, Yasushi: *See*—
Katayama, Kazuso; Mori, Yasushi; Kanki, Hiroshi; Morii, Shigeki; Takeshita, Koji; Ozawa, Yutaka; and Yoshida, Zenichi, 4,660,838, Cl. 277-97.000.
Katayama, Kazuso; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; Mori, Yasushi; and Kobayashi, Masanori, 4,715,778, Cl. 415-104.000.
Mori, Yoshiaka: *See*—
Kimura, Takayoshi; Tsuyuguchi, Seiichi; and Mori, Yoshiaka, 4,707,185, Cl. 75-24.000.
Mori, Yoshiaki: *See*—
Kimura, Takayoshi; Tsuyuguchi, Seiichi; and Mori, Yoshiaki, 4,695,317, Cl. 75-24.000.
Mori, Yoshikatsu: *See*—
Fujii, Hiroshi; Hara, Akio; Kobayashi, Mitsunori; and Mori, Yoshikatsu, 4,643,620, Cl. 407-119.000.
Mori, Yoshikazu: *See*—
Kachi, Kenjiro; Onda, Hideaki; Hayashi, Yukichi; Yoshihara, Kenzo; Watabe, Masayuki; Akagawa, Masaki; and Mori, Yoshikazu, 4,658,125, Cl. 235-449.000.
Kawashima, Sadao; Mori, Yoshikazu; Iwasaki, Masayoshi; and Suzuki, Norio, 4,699,007, Cl. 73-622.000.
Sagawa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, 4,638,180, Cl. 307-219.100.
Sagawa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, 4,679,003, Cl. 331-1.00A.
Yoshioka, Nobuyuki; Okunishi, Yasuji; Miura, Yasuhisa; Mori, Yoshikazu; Kataoka, Yasuki; and Adachi, Eiichi, 4,659,739, Cl. 514-555.000.
Mori, Yoshikuni: *See*—
Sugiura, Shiro; Mori, Yoshikuni; Yoshida, Masatoshi; and Oshiumi, Ryoichi, 4,656,217, Cl. 524-430.000.
Mori, Yoshio: *See*—
Imamura, Kazunori; and Mori, Yoshio, 4,666,292, Cl. 355-67.000.
Mori, Youji; and Satou, Kenichi, to World Chemical Co., Ltd. Seal-less pump. 4,655,681, 4-7-87, Cl. 415-100.000.
Mori, Yuichi: *See*—
Watanabe, Koji; Okamoto, Miyoshi; Mori, Yuichi; and Noishiki, Yasuharu, 4,695,280, Cl. 623-1.000.
Mori, Yutaka: *See*—
Eto, Kunihiko; Ohno, Akihiro; and Mori, Yutaka, 4,662,466, Cl. 180-142.000.
Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.00R.
Tanooka, Shigeo; Mori, Yutaka; Oono, Akihiro; and Hasegawa, Akira, 4,691,796, Cl. 180-142.000.
Moriai, Yasuharu: *See*—
Inoue, Nori; Moriai, Yasuharu; Sakatani, Atushi; and Yoshida, Noriyuki, 4,688,149, Cl. 361-399.000.
Moriarty, James W., Jr., to Dow Chemical Company, The. Coextrusion tie layer and process for producing such tie layer. 4,668,571, 5-26-87, Cl. 428-327.000.
Moribe, Isamu: *See*—
Kumagai, Yuugo; Moribe, Isamu; Saito, Takayuki; Fujita, Toshiyuki; and Kobayashi, Akihiro, 4,686,166, Cl. 430-109.000.
Moribe, Yoshihiro; Hayashi, Yukitaka; Maekawa, Hideo; and Tsukui, Kunitsugu, to Hitachi, Ltd. Head loading system. 4,639,804, 1-27-87, Cl. 360-105.000.
Moribe, Yoshihiro: *See*—
Kumazawa, Kiyotake; Minamide, Noriaki; Moribe, Yoshihiro; Takahashi, Mikio; Beppu, Osamu; and Mitamura, Masahiro, 4,703,242, Cl. 318-685.000.
Moriceau, Hubert: *See*—
Armand, Marie-Francoise; Daval, Jacques; Ferrand, Bernard; and Moriceau, Hubert, 4,698,281, Cl. 428-692.000.
Moriconi, Emil: *See*—
Doswald, Paul; Moriconi, Emil; Moser, Helmut; and Schmid, Horst, 4,665,162, Cl. 534-686.000.
Moriconi, Emil J.: *See*—
Greve, Manfred; Moriconi, Emil J.; and Moser, Helmut, 4,675,388, Cl. 534-608.000.
Moride, Shigeki: *See*—
Asagi, Yasuyoshi; Ogawa, Noriaki; Moride, Shigeki; Hattori, Toshihiro; and Shishido, Katsuya, 4,671,397, Cl. 192-0.052.
Hattori, Toshihiro; Shishido, Katsuya; Kasai, Hitoshi; Moride, Shigeki; and Ogawa, Noriaki, 4,685,051, Cl. 364-424.100.
Moridi, Said: *See*—
Desperben, Lydie; Sari, Hikmet; and Moridi, Said, 4,687,999, Cl. 329-109.000.
Morie, Takashi; Minegishi, Kazushige; and Nakajima, Shigeru, to Nippon Telegraph & Telephone Public Corporation. Method of manufacturing semiconductor device with MIS capacitor. 4,645,564, 2-24-87, Cl. 156-643.000.
Morie, Takashi: *See*—
Miura, Kenji; Nakajima, Shigeru; Minegishi, Kazushige; Morie, Takashi; and Somatani, Toshifumi, 4,672,410, Cl. 357-23.600.
Nakajima, Shigeru; Minegishi, Kazushige; Miura, Kenji; Morie, Takashi; and Somatani, Toshifumi, 4,683,643, Cl. 437-203.000.
Morifuji, Kazuhiko: *See*—
Kanda, Hisashi; Nario, Susumu; Morifuji, Kazuhiko; Kawada, Yuzo; Sakai, Takashi; Kawada, Takeshi; Shimada, Katsura; and Tsuneda, Mitsuo, 4,670,953, Cl. 28-185.000.
Morigaki, Masakazu; Ohki, Nobutaka; Takahashi, Osamu; and Naruse, Hideaki, to Fuji Photo Film Co., Ltd. Silver halide color photographic material. 4,704,350, 11-3-87, Cl. 430-546.000.
Morigaki, Masamichi, to Omron Tateisi Electronics Co. Magnetic head retaining device. 4,646,181, 2-24-87, Cl. 360-104.000.
Morigi, Rodolfo: *See*—
Antolini, Adriano; Morigi, Rodolfo; and Saviotti, Giancarlo, 4,712,832, Cl. 297-180.000.
Moriguchi, Fujio: *See*—
Nakayama, Toshihiko; Moriguchi, Fujio; Murayama, Tomio; and Takeo, Yasuhiro, 4,638,329, Cl. 346-76.0PH.
Moriguchi, Haruhiko; Inui, Toshiharu; Ohmori, Takashi; and Kikuchi, Yoshiki, to Fuji Xerox Co., Ltd. Printing method. 4,651,167, 3-17-87, Cl. 346-76.0PH.
Moriguchi, Haruhiko; Inui, Toshiharu; and Ishida, Yoshihiro, to Fuji Xerox Co., Ltd. Tone reproduction method and apparatus. 4,701,811, 10-20-87, Cl. 358-298.000.

Moriguchi, Haruhiko: *See*—
Inui, Toshiharu; and Moriguchi, Haruhiko, 4,679,055, Cl. 46-76.0PH.
Inui, Toshiharu; Moriguchi, Haruhiko; Hisatake, Masayuki; and Ohmori, Takashi, 4,685,069, Cl. 364-506.000.
Leng, Svay; Saitoh, Hiroyuki; Inui, Toshiharu; Koizumi, Norihiko; Moriguchi, Haruhiko; Omori, Takashi; Kurata, Masami; and Katoh, Yasuo, 4,638,372, Cl. 358-296.000.
Moriguchi, Kohichi: *See*—
Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Kohichi; Matsui, Kazuma; and Iwata, Hiroshi, 4,652,215, Cl. 417-219.000.
Moriguchi, Koichi: *See*—
Iwata, Hiroshi; Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Koichi; Horiuchi, Yasuhiro; and Nakamura, Kanehito, 4,710,106, Cl. 417-213.000.
Suzuki, Masahiko; Matsui, Kazuma; Moriguchi, Koichi; and Kuroyanagi, Masatoshi, 4,658,584, Cl. 60-450.000.
Morihara, Kenji; Homma, Hidetoshi; and Sunami, Kenji, to Mitsubhiki Denki Kabushiki Kaisha. Railway car order selecting system. 4,689,602, 8-25-87, Cl. 340-48.000.
Morihara, Kenji: *See*—
Ochiai, Hajime; Morihara, Kenji; and Honma, Hidetoshi, 4,656,586, Cl. 364-424.000.
Ochiai, Hajime; and Morihara, Kenji, 4,682,144, Cl. 340-48.000.
Ochiai, Hajime; and Morihara, Kenji, 4,688,266, Cl. 455-612.000.
Morihata, Kunio: *See*—
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,633,662, Cl. 57-286.000.
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,689,944, Cl. 57-260.000.
Morihiro, Steve: *See*—
Thompson, William W.; Bacon, Lawrence D.; Curry, Kent G.; and Morihiro, Steve, 4,676,138, Cl. 89-33.140.
Morihiro, Yoshiyuki: *See*—
Takada, Mitsuyuki; Morihiro, Yoshiyuki; and Takasago, Hayato, 4,643,798, Cl. 156-630.000.
Takada, Mitsuyuki; Morihiro, Yoshiyuki; and Takasago, Hayato, 4,685,203, Cl. 29-620.000.
Morii, Akira: *See*—
Saito, Yasuhisa; Morii, Akira; and Nakamura, Hiroshi, 4,663,401, Cl. 525-505.000.
Morii, Hiroaki, to NGK Spark Plug Co., Ltd. Gasket type pressure sensor. 4,686,861, 8-18-87, Cl. 73-862.680.
Morii, Masayoshi: *See*—
Yamasaki, Harumasa; Morii, Masayoshi; Yokota, Yukinaga; Mamada, Akira; and Nabata, Yoshiyuki, 4,714,719, Cl. 521-163.000.
Morii, Shigeki: *See*—
Katayama, Kazuso; Mori, Yasushi; Kanki, Hiroshi; Morii, Shigeki; Takeshita, Koji; Ozawa, Yutaka; and Yoshida, Zenichi, 4,660,838, Cl. 277-97.000.
Moriuzumi, Hirokazu: Horiguchi, Akira; and Sasaki, Isao, to Victor Company of Japan, Ltd. Magnetic recording medium having an improved magnetic recording layer. 4,707,403, 11-17-87, Cl. 428-328.000.
Moriuzumi, Ryoji; Suzuki, Yoichi; and Ameda, Kazuhiro, to Nissan Diesel Co., Ltd. Steering system for automotive vehicle. 4,638,883, 1-27-87, Cl. 180-324.000.
Morijiri, Makoto: *See*—
Imura, Midori; Morijiri, Makoto; Hanazono, Masanobu; Kazui, Shinichi; Miura, Youzi; and Ogino, Hiroyuki, 4,659,587, Cl. 427-35.000.
Morijiri, Takeshi: *See*—
Washizu, Shoichi; Morijiri, Takeshi; Kogure, Kazuo; and Arimitsu, Satoshi, 4,679,668, Cl. 188-353.000.
Morikane, Hiroyuki: *See*—
Morishita, Akira; Akae, Yoshifumi; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Kounou, Tadami; Arima, Takemi; and Hasegawa, Akinori, 4,680,979, Cl. 74-7.00E.
Morishita, Akira; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Hasegawa, Akinori; Arima, Takemi; and Kounou, Tadami, 4,712,451, Cl. 74-801.000.
Morikawa, Chiharu: *See*—
Kano, Toshio; Knodo, Masamichi; Ikeda, Tatsufumi; and Morikawa, Chiharu, 4,703,059, Cl. 514-493.000.
Morikawa, Hideyuki: *See*—
Kobayashi, Susumu; and Morikawa, Hideyuki, 4,648,812, Cl. 417-477.000.
Morikawa, Hiroyuki: *See*—
Ikeda, Hidekatsu; Morikawa, Hiroyuki; and Yoshie, Yasunori, 4,700,441, Cl. 29-33.00P.
Morikawa, Juiti: *See*—
Inagoya, Osamu; Fujiwara, Hideo; Tottori, Takeshi; Yamano, Minoru; Kumasaka, Noriyuki; Otomo, Shigekazu; Kudo, Mitsuhiro; Morikawa, Juiti; Ishihara, Kiyoshi; Usui, Akira; and Hayashi, Masashi, 4,701,819, Cl. 360-122.000.
Morikawa, Keishi: *See*—
Kodama, Kazuo; and Morikawa, Keishi, 4,679,973, Cl. 409-200.000.
Morikawa, Koji, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the intake air of an automotive engine. 4,704,996, 11-10-87, Cl. 123-188.00M.
Morikawa, Masaki; Ohe, Junya; Mishima, Akifumi; and Saitoh, Sadao, to Mitsubishi Kinzoku Kabushiki Kaisha. Cobalt alloy for build-up welding having improved resistance to weld crack. 4,659,632, 4-21-87, Cl. 428-679.000.
Morikawa, Masaki: *See*—
Hosoda, Naoyuki; Morikawa, Masaki; Uchiyama, Naoki; Yoshida, Hideaki; and Ono, Toshiaki, 4,676,827, Cl. 75-65.0ZM.
Morikawa, Michio; and Hayashi, Torahiko, to Rheon Automatic Machinery Co., Ltd. Apparatus for continuously producing at a flow rate a strip of dough of constant dimensions. 4,692,107, 9-8-87, Cl. 425-140.000.
Morikawa, Michio: *See*—
Hayashi, Torahiko; Mugishima, Hirobumi; and Morikawa, Michio, 4,703,679, Cl. 83-102.000.
Morikawa, Osamu: *See*—
Itakura, Sakae; and Morikawa, Osamu, 4,636,919, Cl. 361-414.000.
Morikawa Sangyo Kabushiki Kaisha: *See*—
Kanoh, Kunihiko; Matsuki, Kanji; Ohta, Kazuhisa; and Sunohara, Tadaomi, 4,711,289, Cl. 164-34.000.
Morikawa, Shigenori; Hanzawa, Kohtaro; Sasaki, Hiroyuki; and Morokuma, Hiroshi, to Casio Computer Co., Ltd. Tone information processing device for an electronic musical instrument. 4,681,008, 7-21-87, Cl. 84-1.280.
Morikawa, Shigenori; and Sasaki, Hiroyuki, to Casio Computer Co., Ltd. Music playing system. 4,700,604, 10-20-87, Cl. 84-1.030.
Morikawa, Shigenori: *See*—
Hanzawa, Kohtaro; Morikawa, Shigenori; Morokuma, Hiroshi; and Sasaki, Hiroyuki, 4,667,556, Cl. 84-1.010.
Morikawa, Tuneo: *See*—
Kabe, Kazuyuki; Morikawa, Tuneo; and Tsukada, Shuichi, 4,657,058, Cl. 152-556.000.
Kabe, Kazuyuki; and Morikawa, Tuneo, 4,691,752, Cl. 152-527.000.
Kabe, Kazuyuki; Morikawa, Tuneo; and Takahashi, Shuji, 4,711,286, Cl. 152-527.000.
Kabe, Kazuyuki; and Morikawa, Tuneo, 4,715,420, Cl. 152-557.000.
Morikawa, Yasushi: *See*—
Takasawa, Seigo; and Morikawa, Yasushi, 4,634,670, Cl. 435-209.000.
Morikawa, Yoshitada: *See*—
Yoshihara, Mitsuo; Morikawa, Yoshitada; Yamamoto, Yasuo; Komada, Mitsuharu; and Hattori, Masaaki, 4,645,297, Cl. 350-96.230.
Moriki, Etsuzo: *See*—
Shiraki, Kenhachi; Kikkawa, Shinichi; Izawa, Takaharu; Miyazaki, Yoshifumi; Nonoue, Torahiko; and Moriki, Etsuzo, 4,645,328, Cl. 355-8.000.
Moriki, Shinichi; and Okui, Kazuyuki, to Honda Giken Kogyo Kabushiki Kaisha. Structure for reinforcing automotive cover member of synthetic resin. 4,634,167, 1-6-87, Cl. 296-31.00P.
Moriki, Yoshikazu: *See*—
Ogasawara, Masafumi; Yamaguchi, Nobu; and Moriki, Yoshikazu, 4,648,826, Cl. 425-192.00S.
Morikubo, Kunio: *See*—
Nagasawa, Kohtaro; and Morikubo, Kunio, 4,681,833, Cl. 430-175.000.
Morille, Robert; and Saroul, Jacques, to Crouzet. Device for controlling continuity of printed circuits. 4,642,560, 2-10-87, Cl. 324-73.0PC.
Morimoto, Akira, to Asahi Kogaku Kogyo Kabushiki Kaisha. Scanning optical system for laser beam printers. 4,715,699, 12-29-87, Cl. 350-6.800.
Morimoto, Akira: *See*—
Ochiai, Michihiko; Okada, Taiti; Aki, Osami; Morimoto, Akira; Kawakita, Kenji; and Matsushita, Yoshihiro, 4,668,783, Cl. 540-222.000.
Ochiai, Michihiko; Morimoto, Akira; and Matsushita, Yoshihiro, 4,680,390, Cl. 540-228.000.
Morimoto, Atsutaka; and Takahashi, Shoji, to Citizen Watch Co., Ltd. Voltage monitoring system for an electric power source of a disc drive. 4,636,905, 1-13-87, Cl. 360-137.000.
Morimoto, Atsutaka, to Citizen Watch Co., Ltd. Driving circuit of stepping motor for floppy disk drive. 4,684,864, 8-4-87, Cl. 318-696.000.
Morimoto, Chikao: *See*—
Schlossman, Stuart; Morimoto, Chikao; and Letvin, Norman, 4,661,446, Cl. 435-7.000.
Schlossman, Stuart F.; and Morimoto, Chikao, 4,649,106, Cl. 435-7.000.
Morimoto, Hideaki; and Hashimoto, Hiromi, to NEC Corporation. Channel switching system. 4,686,675, 8-11-87, Cl. 371-8.000.
Morimoto, Hideyuki, to Nippon Air Brake Co., Ltd. Pull-type pneumatic booster. 4,653,382, 3-31-87, Cl. 91-369.00A.
Morimoto, Hideyuki, to Nippon Air Brake Co., Ltd. Pull-type booster for vehicle. 4,667,567, 5-26-87, Cl. 91-376.00R.
Morimoto, Hideyuki, to Nippon Air Brake Co., Ltd. Pull-type booster for vehicle. 4,667,568, 5-26-87, Cl. 91-376.00R.
Morimoto, Hideyuki: *See*—
Kamemoto, Katsuaki; and Morimoto, Hideyuki, 4,658,585, Cl. 60-592.000.
Morimoto, Hiroshi; and Ohura, Akio, to Toray Industries, Inc. Guanidine derivatives. 4,694,086, 9-15-87, Cl. 564-236.000.
Morimoto, Isao; Itagaki, Kazuyoshi; and Mori, Koichi, to Asahi Kasei Kogyo Kabushiki Kaisha. Information recording medium. 4,670,345, 6-2-87, Cl. 428-411.100.
Morimoto, Katsuhiro: *See*—
Takahashi, Akira; Shibahara, Kazuo; Morimoto, Katsuhiro; Samma, Hiromasa; and Kubo, Kazuhiko, 4,647,499, Cl. 428-312.600.
Morimoto, Kazuhisa: *See*—
Yoshino, Kimiaki; Ando, Eiji; Miyazaki, Jinsei; and Morimoto, Kazuhisa, 4,686,169, Cl. 430-339.000.

Morimoto, Kazuo: *See*—
Akiyama, Shigeru; Ueno, Hidetoshi; Imagawa, Koji; Kitahara, Akira; Nagata, Sumio; Morimoto, Kazuo; Nishikawa, Tooru; and Itoh, Masao, 4,713,277, Cl. 428-131.000.

Morimoto, Kenichi: *See*—
Takai, Yasuhiro; Morimoto, Kenichi; Yoshida, Shigekazu; and Tagawa, Takao, 4,636,063, Cl. 355-68.000.

Morimoto, Kenji: *See*—
Suzuki, Hideyuki; Terada, Katsunori; Masaki, Yuichi; and Morimoto, Kenji, 4,690,880, Cl. 430-313.000.

Morimoto, Kiyoshi; Watanabe, Hiroshi; and Tsuruoka, Yoshihisa, to Futaba Denshi Kogyo Kabushiki Kaisha. Linear electrode construction for fluorescent display device and process for preparing same. 4,666,415, 5-19-87, Cl. 445-24.000.

Morimoto, Kiyoshi; Kawamoto, Masuo; Kobayashi, Hiroshi; Hashizume, Masahiro; Tsudaka, Hideaki; and Kimura, Hiroshi, to Mita Industrial Co., Ltd. Document size detecting device. 4,692,019, 9-8-87, Cl. 355-8.000.

Morimoto, Kiyoshi: *See*—
Watanabe, Hiroshi; and Morimoto, Kiyoshi, 4,675,572, Cl. 313-495.000.

Morimoto, Kunio: *See*—
Okazaki, Kenichi; Morimoto, Kunio; Sawano, Kazumi; and Aoki, Masami, 4,698,755, Cl. 364-519.000.

Morimoto, Makoto: *See*—
Hirata, Tadashi; Kobayashi, Shigeru; Takahashi, Keiichi; Morimoto, Makoto; and Arai, Yuko, 4,650,869, Cl. 544-343.000.
Ishii, Shinzo; Katsumata, Shigeo; Arai, Yukou; Fujimoto, Kazuhisa; and Morimoto, Makoto, 4,649,199, Cl. 544-342.000.
Shirahata, Kunikatsu; Kono, Motomichi; Saito, Yutaka; Kasai, Masaji; Morimoto, Makoto; and Ashizawa, Taoashi, 4,691,024, Cl. 548-422.000.
Suzuki, Muneo; Kondo, Mikio; Morimoto, Makoto; and Kayanoki, Kazuhito, 4,672,206, Cl. 250-342.000.

Morimoto Mfg. Co., Ltd.: *See*—
Yamamoto, Masaya; and Ikeda, Kenji, 4,667,611, Cl. 112-166.000.

Morimoto, Masaru: *See*—
Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Kushi, Kenji, 4,689,243, Cl. 427-54.100.
Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Yamamoto, Takashi, 4,693,553, Cl. 350-96.340.

Morimoto, Masayuki: *See*—
Ide, Tatsumi; Morimoto, Masayuki; and Chiba, Kei, 4,686,500, Cl. 335-128.000.

Morimoto, Nobuyuki; Takatsu, Kozo; and Sugimoto, Michio, to Research Association for Petroleum Alternatives Development. Crystalline aluminosilicate ISI-6. 4,695,440, 9-22-87, Cl. 423-328.000.

Morimoto, Seiji: *See*—
Yorisue, Shozo; and Morimoto, Seiji, 4,691,536, Cl. 66-168.000.

Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Kashimura, Masato; Watanabe, Yoshiaki; and Sota, Kaoru, to Taisho Pharmaceutical Co., Ltd. Method for selective methylation of erythromycin a derivatives. 4,670,549, 6-2-87, Cl. 536-7.400.

Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Watanabe, Yoshiaki; and Sota, Kaoru, to Taisho Pharmaceutical Co., Ltd. 6-O-methylerythromycin a derivative. 4,680,386, 7-14-87, Cl. 536-7.400.

Morimoto, Shigeo: *See*—
Watanabe, Yoshiaki; Morimoto, Shigeo; Goi, Masami; Mitsukuchi, Morihiro; Adachi, Takashi; Nakagami, Jozi; Asaka, Toshifumi; Eguchi, Tadashi; and Sota, Kaoru, 4,672,109, Cl. 536-7.200.
Yamada, Toshiro; Fujisawa, Hiroshi; Goto, Kuniaki; Morimoto, Shigeo; Adachi, Takashi; and Watanabe, Yoshiaki, 4,668,776, Cl. 536-7.400.

Morimoto, Shinichi, to Shimano Industrial Company Limited. Detector for detecting a bit of a fish. 4,658,531, 4-21-87, Cl. 43-1.700.

Morimoto, Shuzo. Pad lifting mechanism of a floppy disk device. 4,660,111, 4-21-87, Cl. 360-99.000.

Morimoto, Tadakiyo: *See*—
Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, Koji; Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusawa, Kuniaki; Takama, Hideaki; Waseda, Masashi; and Fujita, Akihisa, 4,667,551, Cl. 83-72.000.

Morimoto, Taiji: *See*—
Yamamoto, Saburo; Hayashi, Hiroshi; Morimoto, Taiji; and Yano, Seiki, 4,677,633, Cl. 372-45.000.
Yano, Seiki; Yamamoto, Saburo; Hayashi, Hiroshi; and Morimoto, Taiji, 4,686,679, Cl. 372-48.000.

Morimoto, Takeshi; Sekimoto, Kunio; and Asada, Seigo, to Matsushita Electric Industrial Co., Ltd. Video signal recording and reproducing apparatus. 4,672,470, 6-9-87, Cl. 358-323.000.

Morimoto, Takeshi; Matsubara, Toshiya; Hamatani, Yoshiki; Iwano, Naoto; Shimizu, Hideo; Komatsu, Shigeo; and Yamada, Hidemi, to Asahi Glass Company Ltd.; and Elna Company Ltd. Electrolytic capacitor. 4,689,724, 8-25-87, Cl. 361-433.000.

Morimoto, Takeshi: *See*—
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,652,356, Cl. 204-283.000.
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,655,886, Cl. 204-98.000.
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,655,887, Cl. 204-98.000.
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,661,218, Cl. 204-98.000.
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,666,574, Cl. 204-98.000.

Morimoto, Takuo; Nishiuchi, Kihachiro; and Wada, Kenichi, to Otsuka Chemical Co., Ltd. Process for preparing a metamorphosed metal oxide. 4,647,404, 3-3-87, Cl. 252-516.000.

Morimoto, Takuo; Nishiuchi, Kihachiro; Wada, Kenichi; Suzue, Masayoshi; and Hareyama, Yukiya, to Otsuka Kagaku Kabushiki Kaisha. Electrically conductive titanate derivative and process for preparing the same. 4,655,967, 4-7-87, Cl. 252-520.000.

Morimoto, Teruyo; Sano, Yumiko; Nimura, Eiji; Tomi, Yuji; and Maeda, Tatsuo, to Mita Industrial Co., Ltd. Photoconductive toner. 4,701,389, 10-20-87, Cl. 430-110.000.

Morimoto, Teruyo: *See*—
Sano, Yumiko; and Morimoto, Teruyo, 4,634,646, Cl. 430-31.000.

Morimoto, Toshiro: *See*—
Tsukamura, Yoshihiro; Morimoto, Toshiro; Kubo, Matayasu; and Mukai, Masataka, 4,660,189, Cl. 369-32.000.

Morimoto, Toyohiko: *See*—
Oka, Yukihiko; and Morimoto, Toyohiko, 4,696,592, Cl. 400-636.000.

Morimoto, Yasuaki: *See*—
Nanno, Ikuo; Morimoto, Yasuaki; Hoshi, Seiji; Wakui, Shinji; and Hoshi, Hideo, 4,650,294, Cl. 350-484.000.

Morimoto, Yoshihiko, to Fuji Jukogyo Kabushiki Kaisha. Control system for an infinitely variable transmission. 4,672,864, 6-16-87, Cl. 74-866.000.

Morimoto, Yoshihiko, to Fuji Jukogyo Kabushiki Kaisha. Control system for an infinitely variable transmission. 4,680,987, 7-21-87, Cl. 74-866.000.

Morimoto, Yoshihiko; and Tezuka, Kazunari, to Fuji Jukogyo Kabushiki Kaisha. Transmission ratio control system for a continuously variable transmission. 4,708,031, 11-24-87, Cl. 74-866.000.

Morimoto, Yoshio: *See*—
Inamori, Hiroo; Nasuda, Sigeyuki; Morimoto, Yoshio; and Haruna, Takayuki, 4,691,874, Cl. 242-80.000.

Morimoto, Yutaka; Saotome, Minoru; and Komai, Atsushi, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Method for production of aqueous dispersion of N-substituted N',N'-alkylene urea. 4,696,760, 9-29-87, Cl. 252-314.000.

Morimune, Katuhiko: *See*—
Sekine, Hirokazu; Morimune, Katuhiko; Watanabe, Masaharu; and Suzuki, Nobuo, 4,649,408, Cl. 357-24.000.

Morimura, Atsushi: *See*—
Fujimoto, Makoto; Kitamura, Yoshinori; Morimura, Atsushi; and Matsuoka, Hiroki, 4,680,623, Cl. 358-44.000.
Matsuoka, Hiroki; Morimura, Atsushi; and Kitamura, Yoshinori, 4,701,784, Cl. 358-213.170.

Morimura, Isao: *See*—
Harashima, Ikuo; and Morimura, Isao, 4,667,585, Cl. 99-289.00R.

Morimura, Toshio: *See*—
Watanabe, Yoji; Morimura, Toshio; and Toyoda, Yukio, 4,692,313, Cl. 422-241.000.

Morimura, Yasuhiro; Fukuura, Yukio; Ishikawa, Hikaru; Tanuma, Itsuo; and Honda, Toshio, to Bridgestone Corporation. Vibration damping metal panels. 4,707,397, 11-17-87, Cl. 428-216.000.

Morin, Albert Z. Spray shield for automotive vehicles. 4,660,846, 4-28-87, Cl. 280-154.50R.

Morin, Andre: *See*—
Labbe, Paul; and Morin, Andre, 4,672,381, Cl. 342-99.000.

Morin, Fernand R., to Wolverine Aluminum Distributing Ltd. Ladder support for eavestrough or gutter. 4,714,136, 12-22-87, Cl. 182-107.000.

Morin, Francois, to Hydro Quebec. Method and ohmmeter for measuring very low electric resistances. 4,698,584, 10-6-87, Cl. 324-62.000.

Morin, Francois: *See*—
Coissard, Pierre; Richard, Joseph; and Morin, Francois, 4,689,116, Cl. 156-651.000.

Morin, J. O. R., to Northern Telecom Limited. Gas pressurizable coaxial cables and cable termination fitting assemblies. 4,689,440, 8-25-87, Cl. 174-19.000.

Morin, Jean-Xavier, to Framatome. Boiler with a circulating fluidized bed. 4,683,840, 8-4-87, Cl. 122-4.00D.

Morin, Jean-Xavier; and Marcellin, Michel, to Framatome & Cie. Method for gasifying a material using a circulating fluidized bed. 4,684,375, 8-4-87, Cl. 48-197.00R.

Morin, John M., Jr.; and Leonard, Nelson J., to Eli Lilly and Company. 3-thiazolomethyl cephalosporins as antibiotics. 4,665,066, 5-12-87, Cl. 514-206.000.

Morin, Louis G., to American Cyanamid Company. Yarns and tows comprising high strength metal coated fibers, process for their production, and articles made therefrom. 4,661,403, 4-28-87, Cl. 428-367.000.

Morin, Louis G., to American Cyanamid Company. Metal bonded composites and process. 4,680,093, 7-14-87, Cl. 204-28.000.

Morin, Louis G., to American Cyanamid Company. Electrochemical cells and electrodes therefor. 4,680,100, 7-14-87, Cl. 204-228.000.

Morin, Rolland L. Liquid distribution system. 4,706,885, 11-17-87, Cl. 239-76.000.

Morin, Sandra K., to H. B. Fuller Company. Coal tar containing foaming urethane composition and a method for repairing defects in structural components. 4,661,532, 4-28-87, Cl. 521-167.000.

Morin, Thomas M. to Sprague Electric Company. Method of curtain coating to make thin dielectric ceramic layers. 4,716,058, 12-29-87, Cl. 427-420.000.

Morinaga, Akio: *See*—
Ohtsuga, Hisao; Morinaga, Akio; Sakaguchi, Yoichi; Hyodo, Masakatsu; and Yagi, Isaburo, 4,684,556, Cl. 428-36.000.

Morinaga & Co., Ltd.: *See*—
Kajihara, Isamu, 4,713,096, Cl. 55-204.000.

Morinaga, Hiroshi; Kamiyama, Sakae; and Sato, Yuzo, to Nissan Chemical Industries, Ltd. Process for preparing a catalyst for polymerization or copolymerization of ethylene. 4,643,986, 2-17-87, Cl. 502-104.000.

Morinaga, Kaoru: *See*—
Tomita, Seiji; Morinaga, Kaoru; and Kotoda, Yoshihiro, 4,646,187, Cl. 360-130.210.

Morinaga, Michio; Ikeda, Akira; and Shinohara, Akira, to Ihara Chemical Industry Co., Ltd. Process for producing an indoline. 4,673,749, 6-16-87, Cl. 548-490.000.

Morinaga Mild Industry Co., Ltd.: *See*—
Okonogi, Shigeo; Yuguchi, Hiroya; Miyazaki, Yusuke; Tanai, Sumio; and Ohta, Minoru, 4,668,520, Cl. 426-564.000.

Morinaga Milk Industry Co., Ltd.: *See*—
Hashimoto, Yoshiyuki; Toida, Tomohiro; Sekine, Kazunori; Saito, Minoru; Kawashima, Takuji; and Kuboyama, Morio, 4,645,667, Cl. 424-92.000.

Morinaga, Shigeki; Miyashita, Kunio; Hayashida, Hiroshi; and Takahashi, Tadashi, to Hitachi, Ltd. Method and apparatus therefor in motor speed control. 4,638,225, 1-20-87, Cl. 318-341.000.

Morinaka, Hideo; Nakanishi, Akira; and Nonaka, Yuji, to Toyo Soda Manufacturing Co., Ltd. Tert-Butyl-halophenols. 4,668,831, 5-26-87, Cl. 568-779.000.

Morinaka, Yasuhiro; Iseki, Katsuhiko; Kanayama, Toshiji; Watanabe, Toshiaki; and Nishi, Hiroyoshi, to Mitsubishi Chemical Industries Limited. 4-phenylphthalazine derivatives, their preparation and their use as pharmaceuticals. 4,668,677, 5-26-87, Cl. 514-248.000.

Morine, Richard L.; and Hokes, James J., to Tineco, Inc. Apparatus for dispensing particulate material. 4,666,069, 5-19-87, Cl. 222-368.000.

Moring, Walter G.: *See*—
Harwood, Jon; Clegg, Michael; Rosa, Bruno A.; and Moring, Walter G., 4,656,712, Cl. 29-157.00R.

Moring, Walter G., III: *See*—
Rosa, Bruno A.; Harwood, Jon W.; Moring, Walter G., III; and Resuggan, Peter L., 4,656,713, Cl. 29-157.00R.

Moring, Wilhelm; Demmer, Walter H.; and Oldach, Detlef W. K., to U.S. Philips Corporation. Circuit arrangement for synchronization of a signal. 4,672,447, 6-9-87, Cl. 358-148.000.

Moring, Wilhelm; Nillesen, Antonius H. H. J.; and Ruprecht, Jurgen, to U.S. Philips Corporation. Circuit arrangement for deriving digital color signals from an analog television signal. 4,689,664, 8-25-87, Cl. 358-23.000.

Morino, Asami: *See*—
Okubo, Yasumi; and Morino, Asami, 4,703,143, Cl. 219-69.00W.

Morino, Masuaki; Fujikawa, Yoshiyuki; Haneda, Isamu; and Myoi, Tetsuo, to Sharp Kabushiki Kaisha. Personal type computer with execution of programs in ROM and RAM. 4,636,970, 1-13-87, Cl. 364-706.000.

Morino, Masuaki: *See*—
Washizuka, Isamu; Morino, Masuaki; and Mashiba, Tamaki, 4,655,551, Cl. 350-334.000.

Morino, Ronald; and Conti, Joseph A., to Kollmorgen Technologies Corporation. Ultrasonic stylus position stabilizer. 4,641,773, 2-10-87, Cl. 228-1.100.

Morino, Ronald: *See*—
Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J.; and Crowell, Jonathan C., 4,693,778, Cl. 156-361.000.
Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J.; Crowell, Jonathan C.; Czenczy, George; Schoenberg, Andrew J.; and Friedrich, Marju L., 4,711,026, Cl. 29-850.000.

Morino, Seiji; Uno, Eiichi; and Yoshitani, Yoshihiro, to Nippondenso Co., Ltd. Electronic ignition device for interval combustion engines. 4641,626, 2-10-87, Cl. 123-620.000.

Morino, Seiji: *See*—
Tokura, Norihito; Kawai, Hisasi; Goto, Masahiro; Morino, Seiji; and Soumiya, Masato, 4,702,221, Cl. 123-606.000.

Morino, Taisuke, to Sharp Kabushiki Kaisha. Food weight measuring device for cooking apparatus. 4,676,328, 6-30-87, Cl. 177-144.000.

Morino, Tetsuro; and Yamashita, Shigeki, to Fuji Xerox Co., Ltd. Method and apparatus for printing image. 4,694,302, 9-15-87, Cl. 346-1.100.

Morino, Yoshikazu: *See*—
Taki, Hirokazu; Kobayashi, Toyohiro; Naito, Akihiko; and Morino, Yoshikazu, 4,654,798, Cl. 364-419.000.

Morino, Yuichi: *See*—
Motodate, Shoji; Morino, Yuichi; and Kurata, Norihiro, 4,710,599, Cl. 200-61.850.

Morio, Kazuhiko: *See*—
Tsuchiya, Hiroshi; Morio, Kazuhiko; Murase, Hisashi; and Ohkawa, Kazuo, 4,684,671, Cl. 522-31.000.

Morioka, Akira; Matsuura, Takeshi; and Takahira, Yoshiyuki, to Hitachi Maxell, Ltd. Magnetic recording medium. 4,716,076, 12-29-87, Cl. 428-323.000.

Morioka, Koitsu; and Kusayama, Masahiro, to Yoshida Kogyo K.K. Fluid-tight slide fastener. 4,658,480, 4-21-87, Cl. 24-389.000.

Morioka, Koji; Tojo, Hideaki; Kimura, Kazuo; and Yoshida, Susumu, to Taikisha Ltd.; and Honda Giken Kogyo Kabushiki Kaisha. Spraying booth. 4,664,061, 5-12-87, Cl. 118-663.000.

Morioka, Makoto: *See*—
Sawada, Yasushi; Ueyanagi, Kiichi; Katayama, Yoshifumi; Shiraki, Yasuhiro; Morioka, Makoto; Kuroda, Takao; and Mishima, Tomoyoshi, 4,672,406, Cl. 357-22.000.
Shiraki, Yasuhiro; Katayama, Yoshifumi; Murayama, Yoshimasa; Morioka, Makoto; Sawada, Yasushi; Mishima, Tomoyoshi; Kuroda, Takao; and Maruyama, Eiichi, 4,673,959, Cl. 357-22.000.

Morioka, Mikio; and Shimizu, Atsushi, to Sumitomo Electric Industries, Ltd. Single crystal of compound semiconductor of groups III-V with low dislocation density. 4,670,176, 6-2-87, Cl. 252-62.3GA.

Morioka, Minoru; Kishi, Toshiaki; and Yoshioka, Toshiharu, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle, and body structure therefor. 4,638,881, 1-27-87, Cl. 180-219.000.

Morioka, Tohru; Terasaki, Hidenori; Akasu, Hiroyuki; Nakano, Akiyoshi; and Takase, Kohichi, to Kuraray Co., Ltd. Apparatus for extracorporeal lung assist. 4,650,457, 3-17-87, Cl. 604-4.000.

Morioka, Toru, to Sanyo Electric Co., Ltd. Battery apparatus for an electric shaver. 4,703,247, 10-27-87, Cl. 320-13.000.

Moris, Alfred H., to Minnesota Mining and Manufacturing Company. Self adjusting endless loop tape cartridge. 4,695,003, 9-22-87, Cl. 242-55.19A.

Morisada, Shinya: *See*—
Ishizumi, Kikuo; Ohashi, Naohito; Tanno, Norihiko; Sato, Hiromi; Fukui, Masaru; and Morisada, Shinya, 4,673,668, Cl. 514-34.000.

Morisaka, Manabu: *See*—
Yoshikawa, Hayato; and Morisaka, Manabu, 4,637,298, Cl. 98-2.080.

Morisako, Isamu: *See*—
Ino, Yoichi; and Morisako, Isamu, 4,700,069, Cl. 250-292.000.

Morisawa & Co., Ltd.: *See*—
Kang, Seoh Won, 4,686,268, Cl. 526-259.000.

Morisawa, Kunio; and Nakamura, Yasunari, to Toyota Jidosha Kabushiki Kaisha. Four wheel drive vehicle slippage control device and method limiting center differential action during transmission shifting. 4,699,236, 10-13-87, Cl. 180-249.000.

Morisawa, Kunio: *See*—
Iwase, Yoshinobu, and Morisawa, Kunio, 4,651,577, Cl. 74-12.000.
Taga, Yutaka; and Morisawa, Kunio, 4,660,693, Cl. 192-0.075.
Taga, Yutaka; Morisawa, Kunio; Uno, Toshihiko; Ito, Masami; and Haneda, Takashi, 4,669,562, Cl. 180-53.100.
Taga, Yutaka; and Morisawa, Kunio, 4,691,594, Cl. 74-869.000.
Taga, Yutaka; Kubo, Seitoku; Kashihara, Yuji; Morisawa, Kunio; Takada, Mitsuru; and Nakamura, Yasunari, 4,702,341, Cl. 180-249.000.
Takahashi, Shigeo; Hasegawa, Hiromi; Furusawa, Choji; and Morisawa, Kunio, 4,651,773, Cl. 137-315.000.

Morisawa, Tahei; and Kawano, Kiyoshi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Tracking device for electronic still single-lens reflex camera. 4,651,233, 3-17-87, Cl. 360-35.100.

Morisawa, Tahei, to Asahi Kogaku Kogyo Kabushiki Kaisha. Head loading device for electronic still single-lens reflex camera. 4,652,943, 3-24-87, Cl. 360-35.100.

Morisawa, Yasuhiro: *See*—
Tomita, Kuniyuki; Shimoji, Yasuo; Kumakura, Seiji; Koike, Hiroyuki; Iwata, Nobuyoshi; and Morisawa, Yasuhiro, 4,716,162, Cl. 514-234.000.

Morise, Hiroshi: *See*—
Uemura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sumi, Akinori; Ohtani, Wataru; Sakanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu, 4,694,074, Cl. 530-417.000.

Morishige, Eiji: *See*—
Nomura, Hirokazu; Sato, Yukihiko; Morishige, Eiji; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,672,173, Cl. 219-125.100.

Morishige, Yuge: *See*—
Takeuchi, Kunihiko; and Morishige, Yuge, 4,703,244, Cl. 318-696.000.

Morishige, Yuji: *See*—
Takeuchi, Kunihiko; Baba, Fujio; Shimomura, Yasuo; and Morishige, Yuji, 4,682,166, Cl. 340-825.500.

Morishige, Yukio, to NEC Corporation. Optical CVD method with a strong optical intensity used during an initial period and device therefor. 4,711,790, 12-8-87, Cl. 427-10.000.

Morishima, Hajime: *See*—
Umezawa, Hamao; Takeuchi, Tomio; Nagatsu, Toshiharu; Hamada, Masa; Iwadare, Shuichi; Matsumoto, Ikuo; and Morishima, Hajime, 4,699,879, Cl. 435-116.000.

Morishima, Hideki: *See*—
Nakamura, Norihiko; and Morishima, Hideki, 4,659,233, Cl. 368-260.000.
Nakamura, Norihiko; Morishima, Hideki; and Yamaguchi, Yoshito, 4,681,465, Cl. 368-246.000.

Morishima, Kazuo, to Honda Giken Kogyo Kabushiki Kaisha. Supplementary light device for motorcycles. 4,686,656, 8-11-87, Cl. 362-72.000.

Morishima, Kazuo: *See*—
Funabashi, Katsunori; Nakashima, Tai; Yamada, Toshiyuki; and Morishima, Kazuo, 4,690,237, Cl. 180-219.000.

Morishima, Takashi: *See*—
Niwa, Toshio; Murata, Yukichi; and Morishima, Takashi, 4,657,557, Cl. 8-471.000.

Morishima, Yasuo: *See*—
Dupont, Bo; Hoffman, Michael K.; Collins, Nancy; Yang, Soo Y.; Morishima, Yasuo; and Kobayashi, Masahide, 4,677,056, Cl. 435-7.000.
Dupont, Bo; Morishima, Yasuo; Collins, Nancy; Ogata, Shunichiro; and Lloyd, Kenneth O., 4,710,457, Cl. 435-7.000.
Knowles, Robert W.; Dupont, Bo; Naito, Kazuyuki; and Morishima, Yasuo, 4,645,738, Cl. 435-7.000.

Morishita, Akio: *See*—
Mizukado, Masayoshi; Morishita, Akio; and Muto, Yoshihiro, 4,640,166, Cl. 83-552.000.
Morishita, Akira; Okamoto, Kyoichi; and Arima, Takemi, to Mitsubishi Denki Kabushiki Kaisha. Vehicle starter and gear structure therefor. 4,651,575, 3-24-87, Cl. 74-7.00E.
Morishita, Akira; Akae, Yoshifumi; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Kounou, Tadami; Arima, Takemi; and Hasegawa, Akinori, to Mitsubishi Denki Kabushiki Kaisha. Planetary gear starter. 4,680,979, 7-21-87, Cl. 74-7.00E.
Morishita, Akira; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Hasegawa, Akinori; Arima, Takemi; and Kounou, Tadami, to Mitsubishi Denki Kabushiki Kaisha. Starter with a gear reduction mechanism. 4,712,451, 12-15-87, Cl. 74-801.000.
Morishita, Akira; Okamoto, Kyoithi; Gotoh, Toshihiko; Kako, Yukio; and Arima, Takemi, to Mitsubishi Denki Kabushiki Kaisha. Planetary reduction gear having a molded ring gear. 4,715,243, 12-29-87, Cl. 74-434.000.
Morishita, Etsuo; Narumiya, Hiroshi; Kakuda, Masayuki; and Sugihara, Masahiro, to Mitsubishi Denki Kabushiki Kaisha. Scroll type machine with tilting thrust bearing. 4,674,963, 6-23-87, Cl. 418-55.000.
Morishita, Hirosada: *See*—
Shimizu, Ryuichi; Mori, Yasuki; Kawanishi, Tsuneaki; Isoo, Osamu; Morishita, Hirosada; and Hosoda, Tooru, 4,680,058, Cl. 106-23.000.
Morishita, Hiroshi: *See*—
Matsumoto, Kazuhisa; Morishita, Hiroshi; Akai, Shinichi; and Miyazawa, Shintaro, 4,645,560, Cl. 156-607.000.
Morishita Jintan Co., Ltd.: *See*—
Hata, Takehisa; Kanagawa, Nobuto; Morishita, Takashi; and Suzuki, Toshiyuki, 4,690,816, Cl. 424-456.000.
Morishita, Takashi; Hata, Takehisa; Mori, Mitio; and Tanoue, Shohachi, 4,695,466, Cl. 424-456.000.
Morishita, Koichi; Omori, Shinji; Yamagata, Shimbu; Yokoyama, Tetsuo; Sano, Koichi; and Ogushi, Akira, to Hitachi, Ltd. Image registration method. 4,644,582, 2-17-87, Cl. 382-6.000.
Morishita, Koji; Hirose, Hujio; Nakatsuka, Nobuo; and Nishimura, Masahiro, to Omron Tateisi Electronics Co. Method of and apparatus for measuring moving velocity of linear object moving and vibrating. 4,679,932, 7-14-87, Cl. 356-28.000.
Morishita, Masanobu, to NEC Home Electronics Ltd. Stereoscopic television signal processing method, signal transmitting unit, and signal receiving unit. 4,658,291, 4-14-87, Cl. 358-92.000.
Morishita, Masanobu, to NEC Home Electronics Ltd. Stereoscopic television image-pickup device display device. 4,677,468, 6-30-87, Cl. 358-88.000.
Morishita, Masataka; Ono, Masaru; and Sumita, Yukio, to Toyo Jozo Company, Ltd. Stable oral preparation of macrolide antibiotics and method for stabilizing the same. 4,716,153, 12-29-87, Cl. 514-30.000.
Morishita, Masataka: *See*—
Matsumura, Takafumi; and Morishita, Masataka, 4,696,822, Cl. 424-490.000.
Morishita, Mimpei; and Azukizawa, Teruo, to Kabushiki Kaisha Toshiba. Electromagnetically floated carrier system with stopping unit. 4,690,066, 9-1-87, Cl. 104-282.000.
Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, to Mitsubishi Denki Kabushiki Kaisha. Power steering apparatus. 4,635,741, 1-13-87, Cl. 180-79.100.
Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, to Mitsubishi Denki Kabushiki Kaisha. Power steering apparatus. 4,666,010, 5-19-87, Cl. 180-79.100.
Morishita, Mitsuharu; and Yabunaka, Kiyoshi, to Mitsubishi Denki Kabushiki Kaisha. Auxiliary device driving starter motor. 4,668,871, 5-26-87, Cl. 290-36.00R.
Morishita, Mitsuharu; and Kouge, Shinichi, to Mitsubishi Denki Kabushiki Kaisha. Device for controlling a charging generator. 4,716,355, 12-29-87, Cl. 320-64.000.
Morishita, Mitsuhiro; and Sugimori, Masayasu, to Ando Electric Co., Ltd. Logic analyzer having a plurality of sampling channels. 4,697,138, 9-29-87, Cl. 324-73.00R.
Morishita, Mitsuhiro: *See*—
Sugimori, Masayasu; and Morishita, Mitsuhiro, 4,713,813, Cl. 371-15.000.
Morishita Pharmaceutical Co. Ltd.: *See*—
Ozeki, Khoji; Sawada, Masahiro; Kimura, Isami; Kataoka, Mikiko; Sato, Makoto; and Yamada, Toshihiro, 4,666,915, Cl. 514-272.000.
Morishita, Sadao; Matsushita, Toshihiko; and Sekine, Mikiya, to Mitsubishi Paper Mills, Ltd. Thermal transfer recording material. 4,651,177, 3-17-87, Cl. 346-227.000.
Morishita, Sadao; Matsushita, Toshihiko; and Sekine, Mikiya, to Mitsubishi Paper Mills, Ltd. Thermal transfer recording material. 4,707,404, 11-17-87, Cl. 428-335.000.
Morishita, Sadao: *See*—
Matsushita, Toshihiko; Morishita, Sadao; Sekine, Mikiya; and Hiraishi, Shigetoshi, 4,696,863, Cl. 428-402.200.
Matsushita, Toshihiko; Morishita, Sadao; and Sekine, Mikiya, 4,703,335, Cl. 503-204.000.
Morishita, Seizo; and Sumoto, Tamotsu, to Yugen Kaisha Manthree Shokai. Knit tape manufacturing device. 4,658,484, 4-21-87, Cl. 29-2.150.
Morishita, Takashi; Hata, Takehisa; Mori, Mitio; and Tanoue, Shohachi, to Morishita Jintan Co., Ltd.; and Fujisawa Pharmaceutical Co., Ltd. Multiple soft capsules and production thereof. 4,695,466, 9-22-87, Cl. 424-456.000.
Morishita, Takashi: *See*—
Hata, Takehisa; Kanagawa, Nobuto; Morishita, Takashi; and Suzuki, Toshiyuki, 4,690,816, Cl. 424-456.000.
Morishita, Takuya; Kurioka, Akihiko; and Morita, Akihiro, to Sanyo Electric Co., Ltd. Vacuum cleaner. 4,648,150, 3-10-87, Cl. 15-389.000.
Morishita, Tsuyoshi; Osaki, Sigemi; Sakai, Noriyuki; Shimizu, Yukio; Konishi, Toshiharu; and Sakuramoto, Takahumi. Process for forming a wear-resistant layer on a substrate. 4,670,215, 6-2-87, Cl. 419-9.000.
Morishita, Tsuyoshi; Osaki, Sigemi; and Sakai, Noriyuki, to Mazda Motor Corporation. Method of bonding porous metallic members and product made by the method. 4,690,320, 9-1-87, Cl. 228-194.000.
Morishita, Tsuyoshi: *See*—
Konishi, Toshiharu; Shimizu, Yukio; Sakuramoto, Takahumi; Morishita, Tsuyoshi; and Osaki, Shigemi, 4,681,733, Cl. 419-8.000.
Osaki, Sigemi; Yousina, Norio; Morishita, Tsuyoshi; and Kawado, Yasuhumi, 4,678,633, Cl. 419-8.000.
Morishita, Tuyoshi; Kawado, Yasuhumi; Osaki, Sigemi; and Sakai, Noriyuki, to Mazda Motor Corporation. Process for forming a high alloy layer on a casting. 4,646,811, 3-3-87, Cl. 164-103.000.
Morisod, Jean-Bernard, to Bobst SA. Counting method and device. 4,713,831, 12-15-87, Cl. 377-8.000.
Morison, John: *See*—
Rouse, Michael W.; Thelen, Robert L.; and Morison, John, 4,714,201, Cl. 241-24.000.
Morissette, Pierre; Stewart, Alexander W.; and Taylor, Keith H., to Pratt & Whitney Canada Inc. Compact torque measurement system. 4,682,505, 7-28-87, Cl. 73-862.340.
Morissette, Richard W. Self-dumping trailer. 4,639,043, 1-27-87, Cl. 298-5.000.
Morisue, Tetsuo: *See*—
Enda, Masami; Fujita, Reiko; Morisue, Tetsuo; and Hasegawa, Yutaka, 4,663,085, Cl. 252-626.000.
Morisuye, Katuhiro: *See*—
Okabe, Takahiro; Hayashi, Makoto; Morisuye, Katuhiro; Watanabe, Tomoyuki; Washio, Katsuyoshi; Ogura, Setsuo; Furihata, Makoto; and Kondo, Shizuo, 4,697,102, Cl. 307-454.000.
Morita, Akihiro: *See*—
Morishita, Takuya; Kurioka, Akihiko; and Morita, Akihiro, 4,648,150, Cl. 15-389.000.
Morita, Akitaka: *See*—
Hashimoto, Shintaro; Morita, Akitaka; and Tsuda, Hiroshi, 4,706,288, Cl. 381-51.000.
Morita, Akiyoshi; Nonoyama, Hideo; and Fukuizumi, Toshiharu, to Toyota Jidosha Kabushiki Kaisha. Method of producing a camshaft. 4,652,724, 3-24-87, Cl. 219-121.0LM.
Morita, Akiyoshi; Nonoyama, Hideo; Fukuizumi, Toshiharu; and Uruno, Kiyokazu, to Toyota Jidosha Kabushiki Kaisha. Process for producing camshaft with cams subjected to remelting chilling treatment. 4,661,676, 4-28-87, Cl. 219-121.0LM.
Morita, Akiyoshi: *See*—
Hattori, Hiroyuki; and Morita, Akiyoshi, 4,706,075, Cl. 340-726.000.
Nonoyama, Hideo; Fukuizumi, Toshiharu; and Morita, Akiyoshi, 4,681,642, Cl. 148-321.000.
Morita, Arihiko: *See*—
Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.
Morita, Atsuo: *See*—
Koyase, Hiroyasu; Funaki, Kinsaku; and Morita, Atsuo, 4,642,138, Cl. 134-22.180.
Morita, Fumiaki: *See*—
Sato, Akihiko; Noto, Akira; Morita, Fumiaki; and Nakajima, Kunihiro, 4,690,819, Cl. 424-88.000.
Morita, Haruyuki; Yoshinari, Jiro; and Fukuda, Kazumasa, to TDK Corporation. Magnetic recording medium. 4,636,448, 1-13-87, Cl. 428-607.000.
Morita, Haruyuki; Yoshinari, Jiro; and Fukuda, Kazumasa, to TDK Corporation. Magnetic recording medium. 4,642,270, 2-10-87, Cl. 428-621.000.
Morita, Haruyuki: *See*—
Nakayama, Masatoshi; Morita, Haruyuki; Kubota, Yuichi; and Tsuchiya, Keiko, 4,699,847, Cl. 428-522.000.
Morita, Hideaki; Kasuya, Takahira; Yamakawa, Goichi; Tomono, Makoto; and Yasuda, Shinichiro, to Konishiroku Photo Industry Co., Ltd. Toner for developing an electrostatically charged image. 4,657,837, 4-14-87, Cl. 430-109.000.
Morita, Hideo: *See*—
Harashima, Tadashi; Morita, Hideo; and Mori, Eiji, 4,700,676, Cl. 123-339.000.
Shiraki, Toshinori; Hayano, Fusakazu; and Morita, Hideo, 4,657,970, Cl. 525-57.000.
Shiraki, Toshinori; Hayano, Fusakazu; and Morita, Hideo, 4,657,971, Cl. 525-57.000.
Sugimoto, Naotsugu; Torii, Kazutoshi; Tanahashi, Yuka; Morita, Hideo; Watanabe, Yuzo; Yamamoto, Kohei; and Kainuma, Tetsuke, 4,656,044, Cl. 426-592.000.
Morita, Hideyo; Akagawa, Tomohiko; and Kita, Yasuo, to Ube Industries, Ltd. Surface treated-glass fiber-reinforced polypropylene composition. 4,694,031, 9-15-87, Cl. 523-203.000.
Morita, Hideyo: *See*—
Matsuno, Yoshio; Miyamoto, Toshio; and Morita, Hideyo, 4,707,505, Cl. 523-203.000.

Morita, Hirofumi: *See*—
Fujita, Yoshihide; and Morita, Hirofumi, 4,652,718, Cl. 219-82.000.
Fujita, Yoshihide; and Morita, Hirofumi, 4,652,719, Cl. 219-82.000.
Morita, Hiroyuki, to Kabushiki Kaisha Toshiba. Frequency converting circuit. 4,696,056, 9-22-87, Cl. 455-182.000.
Morita, Ichiro; Taika, Tadao; and Nakamura, Hidehiro, to Toyo Boseki Kabushiki Kaisha. Thermoplastic elastomer composition. 4,694,049, 9-15-87, Cl. 525-440.000.
Morita, Isamu; Arai, Katsuyoshi; and Koike, Tetsuya, to Honda Giken Kogyo Kabushiki Kaisha. Vibration isolator. 4,651,980, 3-24-87, Cl. 267-140.100.
Morita, Isao, to Tachikawa Spring Co. Structure for securing the trim cover assembly of a seat back. 4,643,480, 2-17-87, Cl. 297-218.000.
Morita, Iwao: *See*—
Enomoto, Hiroshi; Kise, Masahiro; Ozaki, Masakuni; Kitano, Masahiko; and Morita, Iwao, 4,659,734, Cl. 514-255.000.
Morita, Kaoru; Katsuragi, Shigeo; and Noda, Toshiharu, to Toyo Jozo Kabushiki Kaisha. [Nle^{8}, Nle^{18}, Tyr^{34} or Phe^{34}]-h-PTH peptide derivatives. 4,656,250, 4-7-87, Cl. 530-324.000.
Morita, Kazuhiko; Komine, Shigeo; Kasuga, Akira; and Hibino, Noburo, to Fuji Photo Film Co., Ltd. Process for producing a magnetic recording medium having an improved dimensional stability. 4,661,377, 4-28-87, Cl. 427-130.000.
Morita, Kazuhiko: *See*—
Iwasa, Masakazu; Morita, Kazuhiko; Nakatani, Sadao; and Nakamura, Eiji, 4,670,314, Cl. 428-35.000.
Kato, Mikihiko; Komine, Shigeo; Morita, Kazuhiko; and Okuzawa, Yasutoshi, 4,647,473, Cl. 427-44.000.
Kato, Mikihiko; Komine, Shigeo; Okuzawa, Yasutoshi; and Morita, Kazuhiko, 4,652,480, Cl. 428-65.000.
Kato, Mikihiko; Komine, Shigeo; and Morita, Kazuhiko, 4,660,119, Cl. 360-133.000.
Kato, Mikihiko; Komine, Shigeo; Morita, Kazuhiko; and Okuzawa, Yasutoshi, 4,696,846, Cl. 428-65.000.
Kato, Mikihiko; Okuzawa, Yasutoshi; Komine, Shigeo; and Morita, Kazuhiko, 4,707,392, Cl. 428-65.000.
Kawamata, Toshio; Nishikawa, Yasuo; and Morita, Kazuhiko, 4,654,258, Cl. 428-323.000.
Morita, Kazumasa: *See*—
Maruyama, Seiichiro; Hayashida, Hironori; Morita, Kazumasa; and Shiraishi, Yoshitaka, 4,707,512, Cl. 524-504.000.
Morita, Kazuo, to Hitachi, Ltd. Power supply system for an electronic apparatus having memory. 4,677,311, 6-30-87, Cl. 307-66.000.
Morita, Kazuyuki; and Otsuka, Toru, to Sony Corporation. Information signal reproducing apparatus. 4,694,456, 9-15-87, Cl. 371-38.000.
Morita, Keikichi: *See*—
Nozawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiko; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, 4,698,904, Cl. 29-726.000.
Morita, Keitoku, to Kyocera Corporation. Photoelectric converter device having reduced output noise. 4,673,821, 6-16-87, Cl. 250-578.000.
Morita, Kiyomi; Kashiwaya, Mineo; and Sakamoto, Masahide, to Hitachi, Ltd. Electronically controlled fuel injection apparatus for internal combustion engine. 4,644,923, 2-24-87, Cl. 123-493.000.
Morita, Koichi: *See*—
Hayase, Yoshio; Morita, Koichi; Ide, Kinya; and Takahashi, Toshio, 4,648,898, Cl. 71-93.000.
Morita, Koichiro: *See*—
Asai, Ko; and Morita, Koichiro, 4,701,959, Cl. 382-1.000.
Morita, Koji: *See*—
Taki, Masaru; Okada, Hiroshi; Kawamura, Seijiro; Kusumoto, Akio; Morita, Koji; Ikenaga, Takao; Shigematsu, Toshifumi; and Iida, Masami, 4,692,951, Cl. 4-664.000.
Morita, Kouichi: *See*—
Haga, Toru; Nagano, Eiki; Sato, Ryo; and Morita, Kouichi, 4,670,042, Cl. 71-92.000.
Nagano, Eiki; Haga, Toru; Sato, Ryo; and Morita, Kouichi, 4,640,707, Cl. 71-96.000.
Nakayama, Koji; Yoshida, Ryo; and Morita, Kouichi, 4,702,764, Cl. 71-92.000.
Morita, Kousaku: *See*—
Yahagi, Masakichi; Igaki, Tetsuo; Yosinaka, Sinzi; Morita, Kousaku, Saito, Morikuni; and Kinoshita, Kimiaki, 4,642,357, Cl. 549-226.000.
Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,665,199, Cl. 549-226.000.
Morita, Koyo; Nomura, Keizo; Nishizuka, Hiroshi; Hoshi, Tai; Tamiya, Yoichiro; and Asakawa, Terushige, to Hitachi, Ltd.; and Hitachi Tokyo Electronics Co., Ltd. Projection aligner with a sensor for monitoring light quantity. 4,701,608, 10-20-87, Cl. 250-205.000.
Morita, Kunihiko, to Nippon Thompson Co., Ltd. Fluid bearing assembly. 4,697,933, 10-6-87, Cl. 384-12.000.
Morita, Masahiko; and Hashimoto, Osamu, to Kawasaki Steel Corporation. Method of controlling cooling of hot-rolled steel sheet and system therefor. 4,648,916, 3-10-87, Cl. 148-128.000.
Morita, Masahiko; Hashimoto, Osamu; and Tanaka, Tomoo, to Kawasaki Steel Corporation. System for online-detection of the transformation value and/or flatness of steel or a magnetic material by detecting changes in induced voltages due to interlinked magnetic fluxes in detecting coils. 4,686,471, 8-11-87, Cl. 324-243.000.
Morita, Masahiko: *See*—
Tosaka, Akio; Hashiguchi, Koichi; Morita, Masahiko; and Okano, Shinobu, 4,709,557, Cl. 62-373.000.
Morita, Masahiro: *See*—
Amemiya, Tsuguo; Magata, Yutaka; Fujimatsu, Satoshi; and Morita, Masahiro, 4,694,147, Cl. 235-379.000.
Morita, Masao: *See*—
Tanaka, Akinobu; Morita, Masao; Imamura, Saburo; Tamamura, Toshiaki; and Kogure, Osamu, 4,702,990, Cl. 430-197.000.
Yamamoto, Syunji; Yamada, Tadatoshi; Morita, Masao; and Matsuda, Tetsuya, 4,652,826, Cl. 324-320.000.
Morita, Masayuki; and Hattori, Masaichi, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Apparatus for providing stepwise movement. 4,679,453, 7-14-87, Cl. 74-128.000.
Morita, Mikio: *See*—
Ochiai, Kumi; Horie, Hiromichi; Arima, Itsuo; Morita, Mikio; and Kamohara, Hisato, 4,696,725, Cl. 252-62.540.
Morita, Minoru: *See*—
Kawasaki, Tamotsu; Iwasaki, Tadayoshi; Maeda, Takayuki; and Morita, Minoru, 4,668,551, Cl. 428-69.000.
Kawasaki, Tamotsu; Kuwana, Takeshi; and Morita, Minoru, 4,669,632, Cl. 220-423.000.
Morita, Mitsuru; and Nasu, Hitoshi, to Matsushita Refrigeration Company. Refrigerant circuit with improved means to prevent refrigerant flow into evaporator when rotary compressor stops. 4,646,533, 3-3-87, Cl. 62-225.000.
Morita, Naotoshi: *See*—
Masuda, Senichi; Fukuura, Isamu; Shiromizu, Hisaharu; and Morita, Naotoshi, 4,672,503, Cl. 361-230.000.
Morita, Seishi: *See*—
Imaizumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko; Murotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka, Kiyoshi; Takano, Shuntaro; and Saikawa, Isamu, 4,656,287, Cl. 548-194.000.
Sadaki, Hiroshi; Imaizumi, Hiroyuki; Takeda, Kenji; Inaba, Takihiro; Takeno, Ryuko; Morita, Seishi; Kajita, Tetsuya; and Saikawa, Isamu, 4,667,040, Cl. 548-195.000.
Morita, Shigeru; and Yanagawa, Nobuhide, to Kubota, Ltd. Load handling vehicle. 4,692,086, 9-8-87, Cl. 414-635.000.
Morita, Shigeru; and Sugaya, Yukio, to Kabushiki Kaisha S.K.K. Fuse device. 4,709,222, 11-24-87, Cl. 337-273.000.
Morita, Shigeru: *See*—
Hoguchi, Tetsuya; and Morita, Shigeru, 4,672,729, Cl. 29-159.200.
Oka, Masahiko; and Morita, Shigeru, 4,654,444, Cl. 568-560.000.
Oka, Masahiko; and Morita, Shigeru, 4,663,407, Cl. 526-209.000.
Morita, Shigetoshi; Ashizawa, Masaaki; and Yamada, Hirohide, to Hitachi Metals, Ltd. Magnetic head assembly. 4,642,719, 2-10-87, Cl. 360-126.000.
Morita, Shinichi, to Sun Engineering Co., Ltd. Paper feeding device for box making machine. 4,673,175, 6-16-87, Cl. 271-10.000.
Morita, Shinichi: *See*—
Matsunaga, Hiroshi; and Morita, Shinichi, 4,696,099, Cl. 29-603.000.
Morita, Shuji; Sato, Katsujiro; Asaoka, Yoshio; Harada, Isao; and Hirano, Tomiyasu, to Toyota Jidosha Kabushiki Kaisha; and Odai Tekko Kabushiki Kaisha. Valve mechanism of internal combustion engine. 4,644,914, 2-24-87, Cl. 123-90.550.
Morita, Shuji: *See*—
Hattori, Kyo; Kato, Kazuo; and Morita, Shuji, 4,696,201, Cl. 74-467.000.
Yasukawa, Masao; Morita, Shuji; and Fujita, Hiroya, 4,688,441, Cl. 74-409.000.
Morita, Sigeru: *See*—
Matsukawa, Naohiro; Morita, Sigeru; and Nozawa, Hiroshi, 4,642,881, Cl. 29-576.00B.
Morita, Takamitsu: *See*—
Tada, Akira; Morita, Takamitsu; Teraue, Takeshi; and Kusumoto, Yoshihiro, 4,636,554, Cl. 525-359.300.
Morita, Takeshi; Okuda, Takio; Machida, Kazumichi; Sato, Yoshio; and Nakamura, Yoshitaka, to Mitsubishi Denki Kabushiki Kaisha. Method and apparatus for projection welding. 4,700,041, 10-13-87, Cl. 219-96.000.
Morita, Tamao. Magnetic fastener. 4,700,436, 10-20-87, Cl. 24-303.000.
Morita, Tatsuo; Nakajima, Yoshiharu; and Nakajima, Shigeo, to Sharp Kabushiki Kaisha. Method for the production of substrates with a uniform dispersion of extremely fine granules. 4,654,229, 3-31-87, Cl. 427-180.000.
Morita, Tatsuo, to Nissan Motor Company, Limited. Ignition timing control system and method for an internal combustion engine. 4,658,789, 4-21-87, Cl. 123-422.000.
Morita, Tatsuo, to Nissan Motor Company, Limited. Engine combustion condition detecting system and method. 4,679,536, 7-14-87, Cl. 123-425.000.
Morita, Tatsuo, to Nissan Motor Company, Limited. System and method for controlling ignition timing for an internal combustion engine. 4,694,800, 9-22-87, Cl. 123-425.000.
Morita, Teruo: *See*—
Suzuki, Hirokazu; Akiyama, Takehiro; Morita, Teruo; Takeda, Hirofumi; and Masunaga, Hikotaro, 4,645,958, Cl. 307-597.000.
Morita, Tetuya; Wakasa, Akinori; Ogawa, Yutaka; and Ogasawara, Takayuki, to NGK Insulators, Ltd. Structure of divided combustion chamber for diesel engine. 4,651,692, 3-24-87, Cl. 123-270.000.
Morita, Toshikazu, to Nohmi Bosai Kogyo Co., Ltd. Function test means of photoelectric type smoke detector. 4,647,785, 3-3-87, Cl. 250-574.000.
Morita, Toshiki, to Brother Kogyo Kabushiki Kaisha. Ribbon guide device. 4,712,932, 12-15-87, Cl. 400-208.100.

Morita, Tsuneharu; Ikeyama, Toshiharu; Iwaki, Osamu; and Katsuta, Hisao, to Kobayashi Hansokiki. Apparatus for exchanging metal molds. 4,705,445, 11-10-87, Cl. 414-280.000.

Morita, Tsutomu; Toma, Shozo; and Sakai, Yoshiaki, to Teac Corporation. Magnetic data transfer apparatus having a combined read/write head. 4,651,235, 3-17-87, Cl. 360-46.000.

Morita, Tsutomu: *See*—
Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hiraki, Kazuhiro; and Morita, Tsutomu, 4,677,510, Cl. 360-99.000.
Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hiraki, Kazuhiro; and Morita, Tsutomu, 4,688,112, Cl. 360-60.000.
Tsuyuguchi, Hiroshi; Morita, Tsutomu; and Shoji, Makoto, 4,700,243, Cl. 360-69.000.

Morita, Yasukazu, to Hitachi, Ltd. Cathode ray tube including white luminous phosphor screen. 4,694,217, 9-15-87, Cl. 313-468.000.

Morita, Yasushi: *See*—
Hayashi, Hisao; Morita, Yasushi; and Noda, Mitsunari, 4,651,674, Cl. 118-728.000.

Morita, Yasuyuki; Takahashi, Hidemi; and Sano, Reiji, to Matsushita Electric Industrial Co., Ltd. Laser resonator having an improved gas-introducing portion. 4,672,621, 6-9-87, Cl. 372-58.000.

Morita, Yasuyuki: *See*—
Masuda, Shunji; Oda, Hiroyuki; and Morita, Yasuyuki, 4,651,684, Cl. 123-90.160.
Nishimura, Hirofumi; and Morita, Yasuyuki, 4,690,110, Cl. 123-90.170.
Sugiyama, Yoshiyuki; Aoki, Shinichiro; and Morita, Yasuyuki, 4,637,256, Cl. 73-633.000.

Morita, Yoshiharu: *See*—
Oka, Seiji; and Morita, Yoshiharu, 4,650,070, Cl. 206-216.000.
Taniguchi, Masao; Morita, Yoshiharu; Hayakawa, Shuzo; and Kawashima, Osamu, 4,684,732, Cl. 546-144.000.

Morita, Yoshinori: *See*—
Horimoto, Koji; and Morita, Yoshinori, 4,655,877, Cl. 162-146.000.

Morita, Yoshitaka: *See*—
Suzuki, Mitsutoshi; Morita, Yoshitaka; Okada, Masami; and Shimohara, Jun, 4,710,297, Cl. 210-493.200.

Morita, Yoshitsugu; and Shirahata, Akihiko, to Toray Silicone Co., Ltd. Thermosetting resin composition. 4,663,397, 5-5-87, Cl. 525-398.000.

Morita, Yoshiyuki, to Seiko Instruments & Electronics Ltd. Digitizer using phase inversion detection system. 4,692,568, 9-8-87, Cl. 178-19.000.

Morita, Yousuke; Seguchi, Tadao; Kojima, Takuji; and Tanaka, Ryuichi, to Japan Atomic Energy Research Institute. Molded dosimeter containing a rubber and powdered crystalline alanine. 4,668,714, 5-26-87, Cl. 523-136.000.

Morita, Yukiji; and Yoshida, Masafumi, to Kaijo Denki Co., Ltd. Apparatus for measuring propagation time of ultrasonic waves. 4,685,075, 8-4-87, Cl. 364-569.000.

Morita, Yutaka; Katayama, Masayoshi; and Kato, Takashi, to Osaka Gas Company Limited; and Tokico Ltd. Turbine flowmeter. 4,648,281, 3-10-87, Cl. 73-861.910.

Moritaka, Junko, Kazuya Moritaka, Takuya Moritaka, heirs: *See*—
Moritaka, Shintaro, deceased; Watanabe, Yasuhiko; and Nishimura, Motoyuki, 4,687,669, Cl. 426-72.000.

Moritaka, Shintaro, deceased (by Moritaka, Junko, Kazuya Moritaka, Takuya Moritaka, heirs); Watanabe, Yasuhiko; and Nishimura, Motoyuki, to Takeda Chemical Industries, Ltd. Process for production of enriched rice or barley. 4,687,669, 8-18-87, Cl. 426-72.000.

Moritani, Masahiko: *See*—
Kato, Yasuyuki; Yuyama, Masahiro; Moritani, Masahiko; and Iijima, Susumu, 4,661,571, Cl. 526-216.000.
Kato, Yasuyuki; Yuyama, Masahiro; Moritani, Masahiko; and Futagami, Mikio, 4,699,964, Cl. 526-193.000.

Moritani, Nakanobu; Sugita, Mitsuyuki; Hoshino, Isamu; Yanagi, Hirofumi; Ikeno, Hitoshi; and Konno, Tetsuro, to Seikosha Co., Ltd. Overtone crystal oscillator. 4,709,218, 11-24-87, Cl. 331-116.0FE.

Moritani, Takeshi: *See*—
Aoyama, Akimasa; Moritani, Takeshi; Yonezu, Kiyoshi; Negi, Taichi; and Okaya, Takuji, 4,713,296, Cl. 428-412.009.
Okaya, Takuji; Tanaka, Yoshinari; Yonezu, Kiyoshi; Aoyama, Akimasa; and Moritani, Takeshi, 4,636,551, Cl. 525-60.000.

Morito Co., Ltd.: *See*—
Yamaguchi, Mitsuhiro, 4,667,422, Cl. 36-67.00A.
Yamaguchi, Mitsuhiro, 4,674,207, Cl. 36-126.000.

Morito, Hiroshi: *See*—
Shimada, Jiroh; and Morito, Hiroshi, 4,694,274, Cl. 340-146.200.

Morito, Makoto, to OKI Electric Industry Co., Ltd. Speech synthesizer with repeated symmetric segment. 4,691,359, 9-1-87, Cl. 381-51.000.

Moritoh, Naoya: *See*—
Masaki, Mituo; Shinozaki, Haruhiko; Satoh, Masaru; Moritoh, Naoya; Hashimoto, Koichi; and Kamishiro, Toshiro, 4,644,063, Cl. 546-209.000.

Moritoki, Masato: *See*—
Tojyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takeshi; Fujikawa, Takao; and Kofune, Shigeo, 4,666,314, Cl. 374-131.000.

Moritugu, Mitiyasu; Kawai, Hisasi; and Tokura, Norihito, to Nippon Soken, Inc. Power supply for piezoelectric-element driving device. 4,644,212, 2-17-87, Cl. 310-317.000.

Moritugu, Mitiyasu: *See*—
Tokura, Norihito; Moritugu, Mitiyasu; and Kawai, Hisasi, 4,693,115, Cl. 73-204.000.

Moritz, Alex: *See*—
Krieger, Zvi; and Moritz, Alex, 4,700,543, Cl. 60-655.000.

Moritz, Bertil, to ASEA Aktiebolag. Insulation of metallic surfaces in power transformers. 4,639,282, 1-27-87, Cl. 156-53.000.

Moritz, Holger; and Pfeiffer, Gerd, to International Business Machines Corporation. Production of a lift-off mask and its application. 4,659,650, 4-21-87, Cl. 430-313.000.

Moritz, Manfred; and Rettke, Wilfried, to Ta Triumph-Adler Aktiengesellschaft. Method and apparatus for indexing the print hammer of typewriters or the like. 4,710,042, 12-1-87, Cl. 400-141.000.

Moritz, Scott N.: *See*—
Donatello, Mike A.; Moritz, Scott N.; and Shuman, Guy L., 4,699,318, Cl. 239-33.000.

Moritz, Werner, to Kabelschlepp Gesellschaft mit beschrankter Haftung. Carrier for energy and supply lines. 4,669,507, 6-2-87, Cl. 138-92.000.

Moritz, Werner, to Kabelschlepp Gesellschaft mit beschrankter Haftung. Guide chain for guiding energy lines. 4,672,805, 6-16-87, Cl. 59-78.100.

Moritz, Werner, to Kabelschlepp GmbH. Carrier for energy and supply lines. 4,702,281, 10-27-87, Cl. 138-120.000.

Moritz, Werner: *See*—
Fait, Martin; Gunther, Thomas; Janietz, Peter; Moritz, Werner; Muller, Lothar; and Wellner, Hans, 4,699,806, Cl. 427-126.100.

Moriuchi, Yousuke; and Kousai, Tadashi, to Terumo Corporation. Flowmeter. 4,699,617, 10-13-87, Cl. 604-246.000.

Moriwaki, Hideaki: *See*—
Fuji, Hiroshi; Iio, Tsukasa; Genba, Yasusi; Moriwaki, Hideaki; and Mochizuki, Yoshinori, 4,716,265, Cl. 200-144.00R.

Moriwaki, Hisayoshi: *See*—
Nakano, Kenji; and Moriwaki, Hisayoshi, 4,641,309, Cl. 371-31.000.

Moriwaki, Kaoru: *See*—
Nishida, Takao; Hiyama, Toru; Moriwaki, Kaoru; Ishiyama, Shun; and Miyamoto, Shunsuke, 4,703,257, Cl. 324-73.00R.

Moriwaki, Masafumi; Sano, Shigeaki; and Tanaka, Eiichi, to Toppan Moore Co., Ltd. Signal input sheet having a conductive shield layer. 4,636,582, 1-13-87, Cl. 178-18.000.

Moriwaki, Masayoshi, to Fuji Photo Film Co., Ltd. Dustproof liner for a magnetic disc cartridge. 4,695,912, 9-22-87, Cl. 360-133.000.

Moriwaki, Masayoshi: *See*—
Oishi, Kengo; and Moriwaki, Masayoshi, 4,635,877, Cl. 242-197.000.
Oishi, Kengo; and Moriwaki, Masayoshi, 4,700,254, Cl. 360-132.000.

Moriya, Isao. Process for manufacture of soybean curd. 4,664,930, 5-12-87, Cl. 426-573.000.

Moriya, Koichi; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, Ludwig; and Schmidt, Robert R., to Bayer Aktiengesellschaft. Certain laevorotatory p-tolysulfonyl or methanesulfonyl propionic acid ester intermediates. 4,639,537, 1-27-87, Cl. 558-48.000.

Moriya, Koichi; and Oshizawa, Hidekazu, to Diesel Kiki Co., Ltd. Cruise control apparatus for vehicles. 4,698,762, 10-6-87, Cl. 364-424.100.

Moriya, Koichi: *See*—
Kurahashi, Yoshio; Shiokawa, Kozo; Goto, Toshio; Kagabu, Shinzo; Matsumoto, Noboru; and Moriya, Koichi, 4,708,953, Cl. 514-166.000.
Kurahashi, Yoshio; Shiokawa, Kozo; Kagabu, Shinzo; Sakawa, Shinji; and Moriya, Koichi, 4,710,518, Cl. 514-624.000.
Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,647,570, Cl. 514-341.000.
Shiokawa, Kozo; Moriya, Koichi; Goto, Toshio; Kamochi, Atsumi; Ito, Seishi; and Horita, Mitsugu, 4,666,503, Cl. 71-90.000.
Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,678,795, Cl. 514-341.000.
Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,680,294, Cl. 514-256.000.

Moriya, Kozo: *See*—
Sato, Toru; and Moriya, Kozo, 4,648,395, Cl. 128-204.230.

Moriya, Masafumi; Hosoda, Kazuo; Nishimura, Akira; and Imachi, Takao, to Miyoshi Yushi Kabushiki Kaisha. Metal scavenger and metal scavenging process. 4,670,160, 6-2-87, Cl. 210-728.000.

Moriya, Masafumi; Hosoda, Kazuo; Nishimura, Akira; and Imachi, Takao, to Miyoshi Yushi Kabushiki Kaisha. Metal scavenger and metal scavenging process. 4,670,180, 6-2-87, Cl. 252-180.000.

Moriya, Masaichi; Maekawa, Junichi; and Nakamura, Takeshi, to Ohi Seisakusho Co., Ltd. Window glass raising and lowering apparatus. 4,648,206, 3-10-87, Cl. 49-352.000.

Moriya, Masamichi: *See*—
Maruyama, Masanori; Moriya, Masamichi; Kato, Shinichi; Fukushima, Masakazu; Nonaka, Yasuhiko; and Ogusu, Chihaya, 4,682,077, Cl. 315-14.000.

Moriya, Mikio; and Kinoshita, Teruo, to Citizen Watch Co., Ltd. Dot matrix print head. 4,647,237, 3-3-87, Cl. 400-124.000.

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Susumu: *See*—
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sumu; and Momose, Atsushi, 4,708,882, Cl. 427-1.000.
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amura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya,
kaharu; and Maruhashi, Shigeaki, 4,657,641, Cl. 204-1.00T.
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, Inao: *See*—
, Katsunobu; Tanaka, Keiji; Ando, Yujiro; and Moriyama,
, 4,675,261, Cl. 430-53.000.
, Jiro: *See*—
, Takashi; Sakurada, Nobuaki; Kawamura, Hideaki; and
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Shin-ichi; Kakegawa, Kazuyuki; Moriyoshi, Yusuke; Takahashi,
Koichiro; and Haneda, Hajime, 4,696,810, Cl. 423-593.000.
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Morland, Mark R.; Cole, Paul A.; Cousins, Ivan J.; and Zandonatti, Raymond A., to Tektronix, Inc. Modified BNC connector for active probe. 4,708,661, 11-24-87, Cl. 439-77.000.
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Morley Furniture Spring Corporation: *See*—
Grosby, Lawton H., 4,715,587, Cl. 267-103.000.
Morley, Harold T., Jr. Hexagon tile game. 4,673,185, 6-16-87, Cl. 273-294.000.
Morley, John D. Remotely manipulatable panning and tilting mount for video cameras and the like and method of manipulating a camera. 4,655,567, 4-7-87, Cl. 352-243.000.
Morley, Kenneth S.: *See*—
Wiedenman, Gregory B.; Morley, Kenneth S.; Frederickson, Gary H.; and Williams, Jeffrey L., 4,646,076, Cl. 340-747.000.
Morley, Michael J.: *See*—
Bloyce, Lionel T.; and Morley, Michael J., 4,674,684, Cl. 239-123.000.
Morley, Peter: *See*—
Stockdale, Trevor J.; and Morley, Peter, 4,645,343, Cl. 356-326.000.
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Morley, Richard E. Parallel process controller. 4,648,064, 3-3-87, Cl. 364-900.000.
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Morlock, Gerhard: *See*—
Amann, Herbert; Morlock, Gerhard; and Schola, Egbert, 4,672,083, Cl. 524-86.000.
Holle, Hans-Joachim; and Morlock, Gerhard, 4,677,173, Cl. 526-193.000.
Morlock, Roland: *See*—
Fischer, Herbert; Stritzke, Karl H.; Morlock, Roland; Jones, Thomas C.; and Donovan, Joseph C., 4,636,265, Cl. 148-6.15R.
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Morman, Michael T.; and Wisneski, Tony J., to Kimberly-Clark Corporation. Elasticized garment and method of making the same. 4,655,760, 4-7-87, Cl. 604-385.00A.
Morman, Michael T., to Kimberly-Clark Corporation. Composite nonwoven elastic web. 4,657,802, 4-14-87, Cl. 428-152.000.
Morman, Michael T.; and Wisneski, Tony J., to Kimberly-Clark Corporation. High temperature method of making elastomeric materials and materials obtained thereby. 4,692,371, 9-8-87, Cl. 428-224.000.
Morman, Michael T.: *See*—
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Morner, Bengt O. J. S., to Autoliv Development AB. Seat belt system. 4,653,774, 3-31-87, Cl. 280-804.000.
Morner, Bengt O. J. S., to Autoliv Development Aktiebolag. Locking device for a band in a safety belt of a passive vehicle safety belt system. 4,697,826, 10-6-87, Cl. 280-804.000.
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Andersson, Sture R.; Haland, Lars Y.; and Morner, Bengt O. J. S., 4,705,296, Cl. 280-806.000.
Morningstar, Leroy J.; and Blichasz, Charles S., to AMP Incorporated. Connector for multiple coaxial cables. 4,659,166, 4-21-87, Cl. 339-177.00R.

Moro, Dominik J.; Reisinger, Robert R.; Larson, James M.; and Kuhn, Roscoe E., to Acco Babcock Inc. Crane with anti-skewing device. 4,706,570, 11-17-87, Cl. 105-163.200.

Moro, Eiji: *See*—
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Moro, Joseph. Adjustable bowling release positioner. 4,666,158, 5-19-87, Cl. 273-54.00B.

Moro, Joseph C.: *See*—
Brull, Robert A.; Walker, Alan H.; and Moro, Joseph C., 4,655,625, Cl. 400-605.000.

Moro, Takeo: *See*—
Koto, Noriaki; Yukawa, Joei; and Moro, Takeo, 4,652,465, Cl. 427-216.000.

Moroder, Luis: *See*—
Valet, Gunter; Ruhenstroth-Bauer, Gerhard; Wunsch, Erich; and Moroder, Luis, 4,677,060, Cl. 435-29.000.

Moroe, Michio, to Takasago Perfumery Co. Ltd. Deodorant. 4,634,588, 1-6-87, Cl. 424-48.000.

Morofuji, Akihiko: *See*—
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Morohashi, Kazuo: *See*—
Mitani, Kiyoharu; Morohashi, Kazuo; Yamada, Kenji; Gonda, Tsunemi; and Mizutani, Hideo, 4,641,964, Cl. 356-124.000.

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Moroi, Shiro: *See*—
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Morokawa, Shigeru, to Citizen Watch Company Limited. Method of driving liquid crystal matrix display. 4,679,043, 7-7-87, Cl. 340-784.000.

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Ito, Katsu; Shinabe, Munehiro; Miyajima, Akira; Hashimoto, Nobuyuki; Ohno, Hideshi; Tsuzuki, Akira; Morokawa, Shigeru; and Natori, Minoru, 4,663,670, Cl. 358-245.000.

Morokuma, Hiroshi: *See*—
Hanzawa, Kohtaro; Morikawa, Shigenori; Morokuma, Hiroshi; and Sasaki, Hiroyuki, 4,667,556, Cl. 84-1.010.
Morikawa, Shigenori; Hanzawa, Kohtaro; Sasaki, Hiroyuki; and Morokuma, Hiroshi, 4,681,008, Cl. 84-1.280.

Moronaga, Yoshiharu; and Izumi, Junji, to Nippon Rubber Co., Ltd. Insole for shoe. 4,633,598, 1-6-87, Cl. 36-44.000.

Morones, George R.: *See*—
Decker, Ronald G.; Hohmann, John P.; and Morones, George R., 4,667,868, Cl. 228-49.100.

Moroney, Ronald: *See*—
Knight, Allan C.; and Moroney, Ronald, 4,655,200, Cl. 128-71.000.

Moronvalle, Chantal: *See*—
D'Auria, Luigi; Puech, Claude; and Moronvalle, Chantal, 4,668,044, Cl. 350-96.150.

Morooka, Noriji: *See*—
Terui, Mituru; Obata, Masaaki; and Morooka, Noriji, 4,660,884, Cl. 297-317.000.

Morooka, Yoshikazu: *See*—
Mashiko, Koichiro; Yamada, Michihiro; Arimoto, Kazutami; Miyamoto, Hiroshi; Kobayashi, Toshifumi; and Morooka, Yoshikazu, 4,641,281, Cl. 365-189.000.

Moroto, Shuzo; Taniguchi, Takao; and Sakakibara, Shiro, to Aisin-Warner Limited. Power delivery system. 4,673,071, 6-16-87, Cl. 192-3.210.

Moroto, Shuzo; and Sakakibara, Shiro, to Aisin Warner Kabushiki Kaisha. Automatic transmission having C.V.T. system for a vehicle. 4,706,518, 11-17-87, Cl. 74-689.000.

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Moroto, Shuzo: *See*—
Sumiya, Koji; and Moroto, Shuzo, 4,712,635, Cl. 180-197.000.

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Kobo, Kazuo; Morotomi, Noriaki; and Sato, Takeshi, 4,673,979, Cl. 358-142.000.

Moroux, Julien, to Societe Francaise d'Organo-Synthese. Method of oxidizing hydrazo compounds to corresponding azo compounds by hydrogen peroxide. 4,637,868, 1-20-87, Cl. 204-157.820.

Moroz, Pavel E., to Sherwood & Vivin Judson. Centrifugal apparatus and method. 4,670,003, 6-2-87, Cl. 494-10.000.

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Morozumi, Takurou: *See*—
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Morper, Manfred; and Frydman, Allen, to Linde Aktiengesellschaft. Process for the removal of heavy metals contained in wastewaters. 4,664,804, 5-12-87, Cl. 210-605.000.

Morr, Michael; Kakoschke, Christel; and Fritz, Hans-Joachim, to Gesellschaft fur Biotechnologische Forschung mbH (GBF). 2-deoxy-3-phosphonylmethyl nucleosides. 4,689,407, 8-25-87, Cl. 536-27.000.

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Morrell, Albert M.; Masterton, Walter D.; and Bauder, Richard C., to RCA Corporation. Method for screening line screen slit mask color picture tubes. 4,634,247, 1-6-87, Cl. 354-1.000.

Morrell, Albert M., to RCA Corporation. Cathode-ray tube having an internal magnetic shield. 4,694,216, 9-15-87, Cl. 313-402.000.

Morrill, Wayne J. Capacitor between motor windings. 4,649,305, 3-10-87, Cl. 310-72.000.

Morrill, Wayne J. Electric motor assembly. 4,688,324, 8-25-87, Cl. 29-596.000.

Morris, Arthur J.; Newton, Donald E.; and Pringle, Ronald E., to Camco, Incorporated. Method and apparatus of injecting fluid into a well conduit by coil tubing. 4,694,908, 9-22-87, Cl. 166-310.000.

Morris, Arthur J., to Camco, Incorporated. Equalizing means for a subsurface well safety valve. 4,703,805, 11-3-87, Cl. 166-324.000.

Morris, Arthur J.: *See*—
Pringle, Ronald E.; and Morris, Arthur J., 4,688,593, Cl. 137-116.000.

Morris, Barry S., to Bloxwich Lock and Stamping Company Limited, The. Demountable hinges. 4,715,090, 12-29-87, Cl. 16-261.000.

Morris, Bernard L.; Nagy, Jeffrey J.; and Walter, Lawrence A., to AT&T Bell Laboratories. Field effect transistor current source. 4,645,948, 2-24-87, Cl. 307-296.00R.

Morris, Carla L., legal representative: *See*—
Morris, William J., deceased; Kemmerer, Richard R.; and Christmas, Byron K., 4,687,806, Cl. 524-765.000.

Morris, Charles F., to Amgen, Inc. DNA plasmids. 4,710,473, 12-1-87, Cl. 435-320.000.

Morris, Christopher L.; Idzorek, George C.; and Atencio, Leroy G., to United States of America, Energy. Gated strip proportional detector. 4,654,531, 3-31-87, Cl. 250-385.000.

Morris, Clive A.; and Joby, Michael J., to Lucas Industries public limited company. Control for a limiting device. 4,679,151, 7-7-87, Cl. 364-510.000.

Morris, David B.; Rollett, Andrew C.; and Roberts, Donald M., to Bayer Aktiengesellschaft. Device for the metering of a chemical, particularly for seed treatment. 4,714,177, 12-22-87, Cl. 222-58.000.

Morris, David S.: *See*—
Whittenburg, Stephen L.; Morris, David S.; Edmonds, Albert V.; McGaw, John; McCormick, David D.; Bartlett, William L.; Cruz, Edward; and Harding, David, 4,657,193, Cl. 241-282.100.

Morris, Dennis; and Goffreda, Frank. Co-extrusion die. 4,687,430, 8-18-87, Cl. 425-133.100.

Morris, Earl L., Sally, Theodore J.; and Hahn, Ron T., to Acorn Engineering Company. Sealed dashpot mechanism for delayed closing plumbing valves. 4,659,059, 4-21-87, Cl. 251-54.000.

Morris, Eddy. Pendulum operated oscillating bow sight. 4,711,036, 12-8-87, Cl. 33-265.000.

Morris, Gareth W.: *See*—
Comyns, Alan E.; Morris, Gareth W.; and Sankey, John P., 4,687,871, Cl. 556-138.000.

Morris, George E.; and Wainhouse, Gillian, to British Petroleum Company p.l.c., The. Process for the coproduction of dialkyl carbonate and tertiary butanol. 4,644,078, 2-17-87, Cl. 558-277.000.

Morris, George E.; and Wainhouse, Gillian, to British Petroleum Company p.l.c., The. Process for the coproduction of a dialkyl oxalate and tertiary butanol. 4,689,430, 8-25-87, Cl. 560-204.000.

Morris, George E.: *See*—
Lucy, Andrew R.; and Morris, George E., 4,642,374, Cl. 560-204.000.

Morris, George Q. Throttles with high velocity airstream collision. 4,633,833, 1-6-87, Cl. 123-336.000.

Morris, George Q. Fuel admixture device. 4,673,536, 6-16-87, Cl. 261-78.100.

Morris, Gordon A., to Santa Fe International Corporation. Pipe initiation anchor. 4,702,646, 10-27-87, Cl. 405-169.000.

Morris, Gregory J.: *See*—
Beaver, Richard N.; Morris, Gregory J.; Pimlott, John R.; and Dang, Hiep D., 4,690,748, Cl. 204-279.000.

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Morris, Gregory J. E.; Grosshandler, Sandor; Beaver, Richard N.; Pimlott, John R.; and Dang, Hiep D., to Dow Chemical Company, The. Fabricated electrochemical cell. 4,673,479, 6-16-87, Cl. 204-279.000.

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Morris, Gregory J. E.: *See*—
Beaver, Richard N.; Morris, Gregory J. E.; Dang, Hiep D.; and Pimlott, John R., 4,666,579, Cl. 204-253.000.
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ris, Harold D.: *See*—
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Farbood, Mohamad I.; Morris, James A.; and Seitz, Eugene W., 4,657,862, Cl. 435-135.000.
Farbood, Mohamad I.; Morris, James A.; and Seitz, Eugene W., 4,686,307, Cl. 560-205.000.
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ris, James B. N.: *See*—
Chelette, K. Darrel, 4,705,307, Cl. 285-332.300.
ris, James D.: *See*—
Stokes, John H.; Clark, John I.; Morris, James D.; and Ward, Steven M., 4,701,858, Cl. 364-483.000.
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ris, Jerry D.: *See*—
Jensen, Gordon A.; Reames, Stephen P.; Morris, Jerry D.; and Neal, Scott S., 4,679,193, Cl. 370-94.000.
ris, John: *See*—
Morse, Milton; and Morris, John, 4,638,652, Cl. 70-454.000.
ris, John C.: *See*—
Jackson, Winston J., Jr.; and Morris, John C., 4,645,102, Cl. 525-419.000.
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ris, John L., Jr.: *See*—
Campbell, Ira J.; Morris, John L., Jr.; Whalen, Thomas J.; Fields, Frederick R.; and Klingenhoff, Herbert, 4,668,133, Cl. 408-81.000.
ris, John M., to GT Development Corporation. Vapor recovery ystems. 4,714,172, 12-22-87, Cl. 220-86.00R.
ris, John M.: *See*—
Armbruster, Kurt; Green, Charles J.; and Morris, John M., 4,702,268, Cl. 137-202.000.
ris, John R., to Lucas Industries Public Limited Company. Indis- ernible lamp. 4,656,567, 4-7-87, Cl. 362-231.000.
ris, John R., Jr.; and Tanzilli, Richard A., to General Electric Company. Aluminum nitride-boron nitride composite article and ethod of making same. 4,666,873, 5-19-87, Cl. 501-96.000.
ris, Kenneth L., to Mobil Oil Corporation. Ultrasonic sound wave enerating device for repelling animals. 4,658,386, 4-14-87, Cl. 67-139.000.
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ris, Kim E.; and Bush, Michael T., to Westinghouse Electric Corp. Elevator system. 4,662,481, 5-5-87, Cl. 187-77.000.
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Husson, Alan L.; and Morris, Kim E., 4,650,037, Cl. 187-130.000.
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Falk, Theodore J.; and Morris, Lawrence E., 4,714,234, Cl. 251-129.170.
ris, Marion C.; Hill, Randolph J.; Frick, Richard H.; and Kons, Hugo L., to Kimberly-Clark Corporation. Method for winding elas- tomeric ribbon. 4,645,135, 2-24-87, Cl. 242-67.10R.
ris, Mark M.: *See*—
Bishop, Dolores; and Morris, Mark M., 4,671,271, Cl. 128-206.110.
ris, Max F. Reading system. 4,643,450, 2-17-87, Cl. 283-46.000.
ris, Merle E.; and Senft, Stephen P., to GTE Products Corporation. Method of making electric lamp with internal conductive reflector. 4,702,717, 10-27-87, Cl. 445-27.000.
ris, Merle F.; Rice, Lawrence M.; and Meade, Steven L., to GTE Products Corporation. Multi-level fuser lamp. 4,710,676, 12-1-87, Cl. 313-579.000.
ris, Norman, to Leslie Hartridge Limited. Securing means. 4,657,429, 4-14-87, Cl. 403-362.000.
ris, Peter, to Morrissey, Kenneth A. Disposable impression tray and method of using. 4,657,509, 4-14-87, Cl. 433-37.000.
ris, R. Scott: *See*—
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ris, Richard F.: *See*—
Sanghvi, Narendra T.; Fry, Francis J.; Morris, Richard F.; and Stuber, Richard A., 4,664,121, Cl. 128-660.000.
ris, Richard L., to Outboard Marin Corporation. Foam pattern for casting an air cooled cylinder head. 4,657,063, 4-14-87, Cl. 164-45.000.
ris, Richard M. Recreational waterslide with seat. 4,669,992, 6-2-87, Cl. 441-65.000.
ris, Richard S. Aquatic device. 4,681,551, 7-21-87, Cl. 441-76.000.
ris, Robert A.; and Rajotte, Paul T., to General Electric Company. Signal processor module for ground fault circuit breaker. 4,641,216, 2-3-87, Cl. 361-45.000.
ris, Robert A.; Rajotte, Paul T.; Russell, Ronald R.; and Kiesel, George W., to General Electric Company. Two pole ground fault circuit breaker. 4,641,217, 2-3-87, Cl. 361-45.000.
Morris, Robert A.; and Rajotte, Paul T., to General Electric Company. Ground fault module for ground fault circuit breaker. 4,667,263, 5-19-87, Cl. 361-42.000.
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Morris, Robert A.; and Rajotte, Paul T., to General Electric Company. Method of forming signal processor module for ground fault circuit breaker. 4,702,002, 10-27-87, Cl. 29-837.000.
Morris, Robert A.: *See*—
Todaro, Frank A.; Castonguay, Roger N.; Krajewski, Alexander A.; and Morris, Robert A., 4,679,019, Cl. 335-172.000.
Morris, Robert C.; Long, Margaret N.; Chin, Timothy C.; and Heller, Donald F., to Allied Corporation. Thermal lensing-compensated lanthanum beryllate laser. 4,713,820, 12-15-87, Cl. 372-41.000.
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Byrd, Audis C.; Morris, Robert J.; Black, Robert H.; and Weaver, Jimmie D., Jr., 4,661,321, Cl. 422-111.000.
Finke, Ronald J.; Mullen, Victor J.; Williams, Danny R.; Morris, Robert J.; and Tucker, Charles E., 4,661,662, Cl. 200-48.00P.
Morris, Robert K., to United States of America, Air Force. Tubular luminescence photovoltaic array. 4,687,880, 8-18-87, Cl. 136-246.000.
Morris Rod-Weeder Co., Ltd.: *See*—
Drever, Kenneth W.; and Purton, Robert G., 4,658,911, Cl. 172-776.000.
Morris, Roy; and Dowling, Steven, to Horstman Defence Systems Limited. Hydraulic damper. 4,674,608, 6-23-87, Cl. 188-290.000.
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Hough, David; Morris, Sidney J.; and Barber, Anthony D., 4,636,156, Cl. 418-201.000.
Morris, Stephen D.: *See*—
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Noffsinger, Kent E., 4,647,039, Cl. 272-125.000.
Morris, Steven L.; and Lewis, Gary C., to Motorola, Inc. Integrated circuit packaging. 4,680,471, 7-14-87, Cl. 250-370.000.
Morris, Thomas A.; and Norman, Leslie D., to Uniscan Limited. Collapsible walking frame having pivotal seat. 4,643,211, 2-17-87, Cl. 135-67.000.
Morris, Thomas E.; and Snedecor, Tarver G., Jr., to Dow Chemical Company, The. Chlorine analysis using fiber optics. 4,647,210, 3-3-87, Cl. 356-410.000.
Morris, Thomas F.: *See*—
Hodo, James D.; Moore, Dennis R.; Morris, Thomas F.; and Tiller, Newton G., 4,676,110, Cl. 73-809.000.
Morris, Vincent P., to General Electric Company. High pressure sodium vapor lamp with improved ceramic arc tube. 4,704,093, 11-3-87, Cl. 445-26.000.
Morris, Vincent P., to General Electric Company. High pressure sodium vapor lamp with PCA arc tube and end closures. 4,707,636, 11-17-87, Cl. 313-625.000.
Morris, Wesley H.: *See*—
Smeltzer, Ronald K.; and Morris, Wesley H., 4,662,059, Cl. 29-571.000.
Morris, William C.: *See*—
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Morris, William J., deceased (by Morris, Carla L., legal representative); Kemmerer, Richard R.; and Christmas, Byron K., to Interez, Inc. Method of reducing viscosity of radiation curable acrylate functional resin. 4,687,806, 8-18-87, Cl. 524-765.000.
Morrison, Alberta J. Puppet speaker. 4,712,246, 12-8-87, Cl. 381-77.000.
Morrison, Andrew D., to United States of America, National Aeronautics and Space Administration. Total immersion crystal growth. 4,654,110, 3-31-87, Cl. 156-607.000.
Morrison, Bertram L., to Vetco Gray, Inc. Metal-to-metal seal structure. 4,709,725, 12-1-87, Cl. 137-614.040.
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Morrison, Charles B.: *See*—
Figueroa, Luis; Niesen, Joseph W.; Zinkiewicz, Lawrence M.; and Morrison, Charles B., 4,634,928, Cl. 313-499.000.
Morrison, Charles F., Jr., to Granville-Phillips Company. Method and apparatus for improving the safety and extending the range of ionization gauge systems. 4,714,891, 12-22-87, Cl. 324-459.000.
Morrison, Clyde A.; Karayianis, Nick; and Wortman, Donald E., to United States of America, Army. Method and apparatus for transmitting a laser signal through fog. 4,670,637, 6-2-87, Cl. 219-121.00L.
Morrison, Daniel R.; Petrie, Ross J.; and Savage, Kenneth D. Emergency shutoff for air conditioners. 4,633,673, 1-6-87, Cl. 62-129.000.
Morrison, David G. Granular binding agent for pellets. 4,698,225, 10-6-87, Cl. 426-96.000.
Morrison, Donald L.; and Bartok, Stephen, to Standard Oil Company, The. Rolling shutter construction. 4,690,193, 9-1-87, Cl. 160-133.000.
Morrison, Donald R. Motorized dumping vehicle. 4,645,264, 2-24-87, Cl. 298-1.00H.
Morrison, Donald R. Portable screed. 4,650,366, 3-17-87, Cl. 404-114.000.
Morrison, Donald R. Non-uniform size particulate spreader. 4,657,431, 4-14-87, Cl. 404-108.000.
Morrison, Donald R. Dual rotary trowel. 4,676,691, 6-30-87, Cl. 404-112.000.

Morrison, Donald R. Portable screed. 4,701,071, 10-20-87, Cl. 404-114.000.

Morrison, Elbert F.; Bradley, Danny R.; and Reece, D. C., to Burlington Industries, Inc. Vacuum spinning from sliver. 4,635,435, 1-13-87, Cl. 57-328.000.

Morrison, Elbert F., to Burlington Industries, Inc. Separation, and phasing of sheath sliver around a core. 4,662,164, 5-5-87, Cl. 57-12.000.

Morrison, Elbert F., to Burlington Industries, Inc. Vacuum texturizing process. 4,693,071, 9-15-87, Cl. 57-289.000.

Morrison, Elbert F.; Bradley, Danny R.; and Reece, D. C., to Burlington Industries, Inc. Apparatus for vacuum spinning. 4,713,931, 12-22-87, Cl. 57-328.000.

Morrison, Eric F., to Ampex Corporation. Blanking signal generator for a subcarrier locked digital PAL signal. 4,663,654, 5-5-87, Cl. 358-33.000.

Morrison, Eric F., to Ampex Corporation. Synchronization slicer. 4,677,388, 6-30-87, Cl. 328-150.000.

Morrison, Frank T.: *See*—
Geary, David F.; Flamm, Katherine K.; and Morrison, Frank T., 4,699,211, Cl. 165-159.000.

Morrison, Garrett L., to Passamaquoddy Tribe. Method and system for exhaust gas stream scrubbing. 4,708,855, 11-24-87, Cl. 423-235.000.

Morrison, Garrett L., to Passamaquoddy Tribe. Method for simultaneously scrubbing cement kiln exhaust gas and producing useful by-products therefrom. 4,716,027, 12-29-87, Cl. 423-225.000.

Morrison, George H.: *See*—
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Morrison, Glenn C., to Warner-Lambert Company. Cardiotonic and antihypertensive 2,4-dihydro-5-[(substituted)phenyl]-4,4-disubstituted-3H-pyrazol-3-ones. 4,661,496, 4-28-87, Cl. 514-278.000.

Morrison, Herbert M.; and Del Mar, Jorge, to Clairol Incorporated. Electrically heated curling wrapper. 4,714,820, 12-22-87, Cl. 219-222.000.

Morrison, Howard J., to Marvin Glass & Associates. Pop-up crib toy. 4,662,855, 5-5-87, Cl. 446-227.000.

Morrison, Howard J.: *See*—
Breslow, Jeffrey D.; Morrison, Howard J.; Hanson, Steven P.; and Rasmussen, Russell G., 4,710,873, Cl. 364-410.000.
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Morrison, James A.: *See*—
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Morrison, James B., Jr. Portable hazardous waste container. 4,650,086, 3-17-87, Cl. 220-66.000.

Morrison, John; Siskind, Eric J.; and Frost, Meryll M., Jr., to North Shore University Hospital. High speed image data processing. 4,709,332, 11-24-87, Cl. 364-414.000.

Morrison, John M. Intruder alarm system. 4,651,138, 3-17-87, Cl. 340-510.000.

Morrison, Kenneth G.: *See*—
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Loire, Rene , 4,662,790, Cl. 405-212.000.
McKie, Robert T., 4,704,904, Cl. 73-204.000.

Morrison-Knudsen Forest Products, Inc.: *See*—
Talbott, John W.; Peters, Thomas E.; and Logan, James D., 4,664,856, Cl. 264-24.000.

Morrison, Margaret S.: *See*—
Jindrick, James A.; Patil, Shashikant M.; Morrison, Margaret S.; and Page, Littleton D., 4,683,550, Cl. 364-900.000.

Morrison, Melvin M. Inertial measurement unit. 4,711,125, 12-8-87, Cl. 73-178.00R.

Morrison Molded Fiber Glass Company: *See*—
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Morrison, Neil S.: *See*—
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Morrison, Richard E.: *See*—
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Morrison, Richard H., Jr.: *See*—
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Morrison, Robert J. Eyeglasses having lens storage means. 4,666,266, 5-19-87, Cl. 351-57.000.

Morrison, Robert L., Jr., to United Technologies Corporation. Turbine or compressor blade mounting. 4,645,425, 2-24-87, Cl. 416-215.000.

Morrison, Roger A., to Mobil Oil Corporation. Production of butanes from propane. 4,686,316, 8-11-87, Cl. 585-708.000.

Morrison, Ronald A.: *See*—
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Morrison, Ronald F., to Orthomatic Limited. Apparatus for altering the contour of a mattress on a bed. 4,633,539, 1-6-87, Cl. 5-508.000.

Morrison, Thomas E., to Continental Conveyor & Equipment Co. Idler roll assembly. 4,643,300, 2-17-87, Cl. 198-842.000.

Morrisroe, John J., Jr. System and method for leveling a converted motor home. 4,641,843, 2-10-87, Cl. 280-6.00R.

Morrisroe, John P. Weather resistant cover bag for dormant plants. 4,646,467, 3-3-87, Cl. 47-21.000.

Morriss, James C., Jr. Tapping sleeve or service clamp for use in attaching a branch pipe to a main in a fluid supply system. 4,708,373, 11-24-87, Cl. 285-156.000.

Morrissette, Roger J. Collapsible cart. 4,635,956, 1-13-87, Cl. 280-652.000.

Morrissey, Denis M.; Takach, Peter E.; and Zeblisky, Rudolph J., to Kollmorgen Technologies Corporation. Method for electroplating non-metallic surfaces. 4,683,036, 7-28-87, Cl. 204-15.000.

Morrissey, Donna: *See*—
Old, Lloyd J.; Lloyd, Kenneth O.; Oettgen, Herbert F.; Whitmore, Willet F.; Szkudlarek, Jerzy; Finstad, Connie L.; Morrissey, Donna; Ogata, Shun-ichiro; and Ueda, Ryuzo, 4,650,756, Cl. 435-68.000.

Morrissey, Kenneth A.: *See*—
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Morrissey, Ronald J.; and Kroll, Harry, to Technic Inc. Method and electroplating solution for deposition of palladium or alloys thereof. 4,673,472, 6-16-87, Cl. 204-44.600.

Morritt, Graham N.; Paes, Malvolio L.; Conacher, Ian D.; Gutridge, John R.; and Snellgrove, Timothy R. Laser bronchoscope ventilator. 4,648,386, 3-10-87, Cl. 128-4.000.

Morrocco, Diane M. Fast food take out carton with cover. 4,714,190, 12-22-87, Cl. 229-1.50B.

Morrone, James V. Media storage apparatus. 4,714,157, 12-22-87, Cl. 206-309.000.

Morrone, Rudolph D. Dental prosthesis composition. 4,670,480, 6-2-87, Cl. 523-115.000.

Morrow, David L.: *See*—
Fotheringham, James R.; and Morrow, David L., 4,637,488, Cl. 180-253.000.

Morrow, Fred E., Jr., to Fiberflex Products, Ltd. Parabolic end fitting. 4,662,774, 5-5-87, Cl. 403-266.000.

Morrow, Gary W.: *See*—
Swenton, John S.; Horton, Derek; Priebe, Waldemar; and Morrow, Gary W., 4,663,445, Cl. 536-6.400.
Swenton, John S.; Morrow, Gary W.; and Priebe, Waldemar, 4,697,005, Cl. 536-6.400.

Morrow, James D.: *See*—
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Morrow, John A. Method and apparatus for sealing capsules. 4,667,455, 5-26-87, Cl. 53-471.000.

Morrow, John E.: *See*—
Bleil, Charles F.; and Morrow, John E., 4,704,221, Cl. 252-91.000.

Morrow, Joseph F.: *See*—
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Morrow, Keith: *See*—
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Morrow Manufacturing Co., Inc.: *See*—
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Morrow, Stanley J.: *See*—
Henslee, Walter W.; Morrow, Stanley J.; and Lindsey, John S., 4,648,954, Cl. 204-243.00R.

Mors: *See*—
Desmazieres, Jean-Gabriel, 4,665,477, Cl. 364-184.000.
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Morsch, Joachim; and Heidelberger, Walter, to bso Steuerungstechnik GmbH. Control handle for remotely controlling a hydraulically operated apparatus. 4,656,461, 4-7-87, Cl. 340-365.00C.

Morscheck, Timothy J.; Davis, Alan R.; and Huggins, Michael J., to Eaton Corporation. Semi-automatic transmission. 4,676,115, 6-30-87, Cl. 74-339.000.

Morsdorf, Peter: *See*—
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Postius, Stefan; Herter, Rolf; Morsdorf, Peter; Schickaneder, Helmut; Szelenyi, Istvan; and Ahrens, Kurt H., 4,656,180, Cl. 514-316.000.
Schickaneder, Helmut; Postius, Stefan; Szelenyi, Istvan; Morsdorf, Peter; Herter, Rolf; and Ahrens, Kurt H., 4,659,721, Cl. 514-326.000.

Morse, Albert I.; and Martin, John F., to USM Corporation. Shoe substrate reinforcing machine. 4,659,420, 4-21-87, Cl. 156-556.000.

Morse, Albert I., to USM Corporation. Powder reinforcing machine. 4,685,418, 8-11-87, Cl. 118-503.000.

Morse, Albert I.: *See*—
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Simmonds, Robert C., Jr.; Gilbride, Andrew J.; and Morse, Albert I., 4,661,198, Cl. 156-578.000.

Morse, Alfred W., to Westinghouse Electric Corp. Cavity system for a particle beam accelerator. 4,700,108, 10-13-87, Cl. 315-5.410.

Morse, Arthur L.; and Thompson, Niels A., to Hughes Aircraft Company. Low-noise charge-injection method and apparatus for IR CCD scanning. 4,684,800, 8-4-87, Cl. 250-211.00J.

Morse Capital Corporation: *See*—
May, William A., 4,650,857, Cl. 530-377.000.

May, William A., 4,667,015, Cl. 530-377.000.

Morse, David L.: *See*—
Borrelli, Nicholas F.; and Morse, David L., 4,684,222, Cl. 350-420.000.
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Morse, H. Andrew: *See*—
Peyran, Richard J.; Laub, Georgene H.; and Morse, H. Andrew, 4,669,958, Cl. 416-114.000.

Morse, Howard E.: *See*—
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Morse, John B. Apparatus for positioning a workpiece with respect to a cutting element. 4,655,445, 4-7-87, Cl. 269-304.000.

Morse, John E., to Eastman Kodak Company. Apparatus and method for synchronizing exposure of . document onto a photosensitive member. 4,643,560, 2-17-87, Cl. 355-3.00R.

Morse, John E.; LaCourt, Michael W.; and Ellis, Richard G., to Eastman Kodak Company. Simplified mount for a web-supporting roller. 4,664,303, 5-12-87, Cl. 226-21.000.

Morse, John J., III: *See*—
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Morse, Karen W.; and Peters, John L., to Utah State University Foundation. Hydroborate compounds. 4,658,051, 4-14-87, Cl. 528-384.000.

Morse, Margaret S.: *See*—
Schneider, Wayne A.; Morse, Margaret S.; and Tjoelker, John, 4,644,343, Cl. 343-767.000.

Morse, Milton; and Morris, John, to Morse, Nena. Sealing cap. 4,638,652, 1-27-87, Cl. 70-454.000.

Morse, Milton, to Morse, Nena. Vandal-resistant telephone keypad switch. 4,716,262, 12-29-87, Cl. 200-5.00A.

Morse, Nena: *See*—
Morse, Milton; and Morris, John, 4,638,652, Cl. 70-454.000.
Morse, Milton, 4,716,262, Cl. 200-5.00A.

Morse, Richard D.: *See*—
Gilliam, Julius C., III; and Morse, Richard D., 4,649,593, Cl. 15-250.410.

Morse, Robert L., to Tecumseh Products Company. Suction accumulator including an entrance baffle. 4,651,540, 3-24-87, Cl. 62-503.000.

Morse, Roger N. Solar apparatus. 4,703,749, 11-3-87, Cl. 126-436.000.

Morse, Ronald W.: *See*—
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Morse, Stephen A.: *See*—
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Morser, Michael J.; and Shuman, Marc A., to Codon Genetic Engineering Laboratories. Methods and compositions for the diagnosis of thrombolytic disorders using plasminogen activator. 4,663,146, 5-5-87, Cl. 424-94.100.

Morsey, Donald M. Air-water nozzle for a spa tank. 4,710,990, 12-8-87, Cl. 4-542.000.

Mortad, David P. Variable powered contact lens. 4,702,573, 10-27-87, Cl. 351-161.000.

Mortell, Edgar A., to Inter-Lock Steel Company, Inc. Combination connector plate and tail truss. 4,641,480, 2-10-87, Cl. 52-693.000.

Mortell, Edgar A., to Inter-Lock Steel Company, Inc. Method of making a connector plate. 4,694,675, 9-22-87, Cl. 72-325.000.

Mortel, Joseph, to Xerox Corporation. Electrophotographic imaging members having a ground plane of hydrogenated amorphous silicon. 4,698,288, 10-6-87, Cl. 430-58.000.

Mortel, Joseph: *See*—
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Mortellite, Robert M.: *See*—
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Mortemore, David W.: *See*—
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Mortensen, Alf. Control system for diverting/equalizing electrical potentials between two objects. 4,691,198, 9-1-87, Cl. 340-649.000.

Mortensen, Bruce. Receptacle for ash removal. 4,659,123, 4-21-87, Cl. 9.000.

Mortensen, David J.: *See*—
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Mortensen, Roger L., to Empak Inc. Magnetic tape security housing. 4,004, 1-6-87, Cl. 206-387.000.

Mortensen, Roger L., to Empak Inc. Disk processing cassette. 4,612, 6-2-87, Cl. 206-454.000.

Mortensen, Roger L., to Empak, Inc. Wafer processing cassette. 4,097, 8-18-87, Cl. 206-334.000.

Mortensen, Svend: *See*—
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Mortensen, Vernon J., to Mortensen Educational Products, Inc. Method for structurally differentiating polynomial functions. 4,461, 2-24-87, Cl. 434-188.000.

Morton, Robert L.: *See*—
Althart, Kenneth B.; Fairfield, Robert C.; and Mortenson, Robert L., 4,641,102, Cl. 328-62.000.

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Mortimer, John H., to Inductotherm Corp. Induction furnace packaging system. 4,688,231, 8-18-87, Cl. 373-138.000.

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Renner, Karl H.; and Morton, Alec J., 4,686,644, Cl. 364-724.000.
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Morton, Duane C., to Document Security Corporation. Comminuter apparatus. 4,664,317, 5-12-87, Cl. 241-36.000.

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Morton, Hugh V., Jr.: *See*—
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Morton, Oscar E. Quilting frame. 4,665,638, 5-19-87, Cl. 38-102.100.

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Romer, Manfred; Woletz, Peter; and Kruger, Klaus, 4,640,938, Cl. 522-79.000.

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Adams, Gary V.; Dahle, David P.; and Kirchoff, George, 4,699,400, Cl. 280-731.000.
Amirsakis, Charles J., 4,695,604, Cl. 525-28.000.
Barnes, Ramon M.; and Bertenyi, Istvan, 4,688,935, Cl. 356-36.000.
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Bresser, Robert E.; and Wursthorn, Karl R., 4,701,486, Cl. 524-182.000.
Byrd, James D.; and Davis, Robert T., 4,663,196, Cl. 427-230.000.
Callens, E. Eugene, Jr.; Crowson, Leslie L., Jr.; Kobs, Robert P.; Tull, Herbert G., III; and Tahtouh, Joseph F., 4,700,360, Cl. 29-407.000.
Ceraso, Arcangelo B., 4,702,789, Cl. 156-256.000.
Conroy, Gary M.; and Wursthorn, Karl R., 4,696,754, Cl. 252-40.500.
Eriksson, Theodore L., 4,699,066, Cl. 102-305.000.
Gilmore, Dennis W.; and Kugele, Thomas G., 4,639,273, Cl. 106-281.00N.
Guilbault, Lawrence J.; McEntee, Thomas C.; Koob, Judith L.; and Brophy, James F., 4,649,079, Cl. 428-375.000.
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Hoover, M. Fred; and Guilbault, Lawrence J., 4,713,236, Cl. 424-70.000.
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Kugele, Thomas G.; Mesch, Keith A.; and Wursthorn, Karl R., 4,665,114, Cl. 524-181.000.
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Mesch, Keith A.; and Conroy, Gary M., 4,681,907, Cl. 524-180.000.
Miller, John F.; Scivally, Jesse F.; and Smalley, Robert B., Jr., 4,651,764, Cl. 137-81.100.
Paxton, Ronald B., 4,696,233, Cl. 102-287.000.
Penn, Howard I., 4,640,868, Cl. 428-446.000.
Rei, Nuno M., 4,661,528, Cl. 521-85.000.
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Shaw, Graham C., 4,658,578, Cl. 60-205.000.
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Stevens, George L., 4,649,826, Cl. 102-340.000.
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Morud, Jeffery L., to Motorola, Inc. Efficient switch drive circuit. 4,656,414, 4-7-87, Cl. 323-289.000.

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Shaw, John R., 4,675,546, Cl. 307-265.000.

Mosbach, Erwin H.; McSherry, Charles K.; and Kuroki, Syoji, to Beth Israel Medical Center. Chemical synthesis. 4,648,995, 3-10-87, Cl. 260-397.100.

Mosbach, Klaus; and Nilsson, Kjell. Method of encapsulating biomaterial in bead polymers. 4,647,536, 3-3-87, Cl. 435-177.000.

Mosbacher, Albert, to H. A. Schlatter AG. Apparatus for electric pressure joining, especially pressure welding and pressure soldering. 4,647,750, 3-3-87, Cl. 219-78.010.

Mosby, Bob L.; and Mosby, Edith C. Device for making designs on toast. 4,656,927, 4-14-87, Cl. 99-388.000.

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Slade, Michael G.; Moscicki, John M.; and Greene, John F., 4,671,772, Cl. 434-219.000.

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Mosele, Joseph, to BBC Brown, Boveri & Company, Limited. Overvoltage arrester. 4,686,603, 8-11-87, Cl. 361-118.000.

Moseley, Douglas D., to Goodyear Aerospace Corporation. Brake temperature and wear indicator. 4,658,936, 4-21-87, Cl. 188-1.110.

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Moseman, Roger E. Liqud foot treatment composition. 4,668,419, 5-26-87, Cl. 252-107.000.

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Moser, Franz; Rammer, Franz; and Priesner, Helmut, to Steyr-Daimler-Puch AG. Air-compressing reciprocating piston-equipped internal combustion engine. 4,676,210, 6-30-87, Cl. 123-301.000.

Moser, Franz: *See*—
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Hankins, Kevin T.; Michael, Mark W.; Rosier, Brian K.; and Moser, Jay D., 4,635,345, Cl. 29-577.00C.
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Moser, John J.: *See*—
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Moser, Keith W., to Industra Products, Inc. Method and apparatus for positioning and transferring stator coil leads. 4,648,176, 3-10-87, Cl. 29-596.000.

Moser, Kenneth B.: *See*—
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Mosley, Bobbie L., to Infinity Pumping Systems. Pumping unit for actuating a down hole pump with static and dynamic counterweights. 4,660,426, 4-28-87, Cl. 74-41.000.
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Baskett, Ira E., 4,712,193, Cl. 365-190.000.
Baskett, Ira E.; and Sluss, Gene T., 4,716,547, Cl. 365-96.000.
Bass, Robert H.; Macko, William J.; and Lockhart, Robert K., Jr., 4,641,364, Cl. 455-32.000.
Bauck, Jerald L., 4,678,987, Cl. 324-77.00R.
Bauck, Jerald L., 4,687,923, Cl. 250-203.00R.
Benenati, Robert L.; and Moy, Wayne K., 4,680,527, Cl. 320-2.000.
Berg, Howard M.; and Mitchell, Curtis W., 4,653,847, Cl. 350-96.200.
Berglund, Robert K.; Mautz, Karl E.; and Tyldesley, Roger, 4,698,128, Cl. 156-643.000.
Berliner, Shlomo; Vered, Areyh, Shmuel, Reich, and Vaige, Moshe, 4,703,259, Cl. 324-95.000.
Bernstein, Jonathan J.; Koger, T. Bruce; and Chanley, Charles S., 4,705,659, Cl. 264-29.600.
Bianco, Gerry, 4,669,052, Cl. 364-571.000.

Bickley, Robert H.; and Culver, Robin D., 4,673,886, Cl. 330-298.000.
Biggs, Bradley M.; Brown, Jimmy L.; and Kerns, Thomas M., 4,633,779, Cl. 102-215.000.
Birrittella, Mark S.; and Seelbach, Walter C., 4,635,087, Cl. 357-38.000.
Birrittella, Mark S., 4,641,047, Cl. 307-454.000.
Birrittella, Mark S.; Marley, Robert R.; and Seelbach, Walter C., 4,644,194, Cl. 307-475.000.
Birrittella, Mark S., 4,649,411, Cl. 357-36.000.
Birrittella, Mark S., 4,656,495, Cl. 357-34.000.
Birrittella, Mark S.; Liaw, Hang M.; and Reuss, Robert H., 4,663,831, Cl. 29-576.00E.
Birrittella, Mark S.; and Stipanuk, James J., 4,697,251, Cl. 365-154.000.
Birrittella, Mark S.; and Stipanuk, James J., 4,701,882, Cl. 365-154.000.
Blum, Stephen C.; and Deriso, John, 4,691,179, Cl. 333-202.000.
Bocci, Paul M.; Pietrzak, Carl M., Jr.; and Wilson, Alan L., 4,710,945, Cl. 375-100.000.
Bocci, Paul M.; Pietrzak, Carl M., Jr.; and Wilson, Alan L., 4,710,957, Cl. 380-42.000.
Boland, Bernard W., 4,636,269, Cl. 148-175.000.
Boland, Bernard W.; and Sanders, Paul W., 4,649,630, Cl. 29-580.000.
Boney, Joel F., 4,683,546, Cl. 364-748.000.
Bonta, Jeffrey D., 4,696,027, Cl. 379-60.000.
Boone, Susan L.; and Stuart, Hugh D., 4,635,223, Cl. 364-900.000.
Borras, Jaime A.; Mitchell, Timothy A.; and Ramos, Ozzie F., 4,670,747, Cl. 340-825.560.
Borras, Jaime Andres; and Sasuta, Michael D., 4,716,407, Cl. 340-825.040.
Bowlds, Harvey F., 4,651,319, Cl. 370-112.000.
Brand, Jerry C., 4,714,903, Cl. 333-110.000.
Braun, Jeffrey J.; and Cook, Kenneth M., 4,698,582, Cl. 323-285.000.
Breeden, Robert L., 4,696,051, Cl. 455-33.000.
Breeden, Robert L., 4,696,052, Cl. 455-51.000.
Bright, Michael W.; Ziolko, Eric F.; and Wilson, Alan L., 4,667,327, Cl. 371-47.000.
Brown, Leland T.; and Bynum, Byron G., 4,661,878, Cl. 361-56.000.
Brown, Mark J., 4,646,036, Cl. 333-81.00R.
Brown, Vernon L., 4,648,125, Cl. 455-90.000.
Bujalski, Joseph; and Welk, John R., 4,673,930, Cl. 340-703.000.
Burke, Timothy M.; Noble, Scott W.; Freeburg, Thomas A.; and Krebs, Jay R., 4,636,791, Cl. 340-825.520.
Burke, Timothy M.; Smith, Paul F.; and Schorman, Eric R., 4,637,022, Cl. 371-37.000.
Burke, Timothy M.; Shirley, Thomas F., Jr.; Schorman, Eric R.; and Goldsmith, Eric S., 4,677,656, Cl. 379-63.000.
Butcher, James S., 4,667,333, Cl. 375-106.000.
Bynum, Byron G.; and Cave, David L., 4,665,459, Cl. 361-91.000.
Bynum, Byron G., 4,677,368, Cl. 323-311.000.
Bynum, Byron G., 4,683,416, Cl. 323-314.000.
Bynum, Byron G., 4,703,455, Cl. 365-174.000.
Campbell, Jules D., Jr., 4,634,905, Cl. 307-594.000.
Carleton, William F., Jr., 4,647,923, Cl. 340-723.000.
Chang, Victor A.; Reyes, Angel A.; Jegers, Martin P.; and Valias-Jean, Frantz, 4,649,092, Cl. 429-217.000.
Chapman, Ronald H., 4,656,431, Cl. 329-50.000.
Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Onystok, Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dworsky, Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., 4,639,631, Cl. 310-344.000.
Chason, Marc K.; Tomase, Joseph P.; and Onystok, Michael J., 4,642,511, Cl. 310-348.000.
Chemelewski, Gary, 4,688,265, Cl. 455-223.000.
Chiampas, George E.; Finnegan, John P.; and Villegas, Henry, 4,680,495, Cl. 310-220.000.
Cho, Frederick Y.; Hickernell, Fred S.; and Richard, Fred V., 4,652,290, Cl. 65-31.000.
Cho, Frederick Y.; and Hickernell, Fred S., 4,686,111, Cl. 427-38.000.
Comroe, Richard A.; and Petrie, Adelore F., 4,642,807, Cl. 371-31.000.
Comroe, Richard A.; Borras, Jaime A.; Browand, Wayne H.; Ramos, Ozzie F.; Kozlowski, Ted A.; Mitchell, Timothy A.; and Ekl, Randy L., 4,667,191, Cl. 340-825.500.
Cennell, Lawrence E.; and Webb, Ronald J., 4,710,724, Cl. 330-9.000.
Coombes, Daniel J., 4,635,285, Cl. 379-63.000.
Cosentino, Stephen J.; Rugg, James M.; and Mauntel, Richard W., 4,701,775, Cl. 357-23.120.
Crawford, Robert J., 4,709,344, Cl. 364-724.000.
Cronkhite, Paul W.; Bosley, Bruce C.; Jones, James H.; and Patel, Asit G., 4,653,231, Cl. 51-5.00R.
Cronkhite, Paul W.; Bosley, Bruce C.; Jones, James H.; and Patel, Asit G., 4,680,893, Cl. 51-5.00R.
Czarnocki, Walter S., 4,656,871, Cl. 73-724.000.
Daghighian, Hamid, 4,656,460, Cl. 340-347.0DA.
Dahl, Randy L., 4,659,967, Cl. 315-307.000.
Dahl, Randy L., 4,692,631, Cl. 290-55.000.
Dahl, Randy L., 4,709,142, Cl. 250-221.000.
Davis, Walter L.; DeLuca, Michael J.; and Siegel, William G., 4,634,956, Cl. 323-222.000.
Davis, Walter L., 4,647,793, Cl. 307-270.000.
Davis, Walter L.; and Woltz, Stephen H., 4,648,015, Cl. 363-15.00
Davis, Walter L., 4,660,027, Cl. 340-636.000.
Davis, Walter L., 4,672,576, Cl. 365-105.000.
Davis, Walter L., 4,682,165, Cl. 340-825.500.
Davis, Walter L., 4,698,790, Cl. 365-230.000.
Davis, Walter L.; and Parikh, Dakshesh D., 4,701,943, Cl. 379-57.000.
Davis, Walter L., 4,713,599, Cl. 323-312.000.
Davis, William F., 4,673,867, Cl. 323-315.000.
Davis, William F., 4,689,549, Cl. 323-315.000.
Davis, William F., 4,709,216, Cl. 330-252.000.
Davis, William F., 4,710,728, Cl. 330-252.000.
Davis, William F.; and Vyne, Robert L., 4,713,680, Cl. 357-51.00
Davis, William F., 4,716,379, Cl. 330-252.000.
Deem, Jake O.; Kassik, Ronald W.; and Metteer, N. Bruce, 4,715,001, Cl. 364-484.000.
DeLuca, Michael J.; and Siegel, William G., 4,649,538, Cl. 371-25.000.
DeLuca, Michael J.; and Mittel, James G., 4,673,865, Cl. 323-222.000.
Derdzinski, Terrance E., 4,662,691, Cl. 339-17.00M.
Derfiny, Dennis J.; van den Heuvel, Anthony P.; and Edguer, Nihat S., 4,641,222, Cl. 361-403.000.
Dershowitz, Kenneth L., 4,672,657, Cl. 379-63.000.
Deutsch, Robert W., 4,671,243, Cl. 123-489.000.
Dixon, Charles E.; and Broughton, Christopher D., 4,704,582, Cl. 329-50.000.
Dolikian, Armin V.; Kotzin, Michael D.; and Budnik, Brian J., 4,654,881, Cl. 455-70.000.
Donoghue, William J., 4,636,979, Cl. 365-104.000.
Doyle, James T., 4,646,427, Cl. 29-586.000.
Doyle, Joseph E., III, 4,710,730, Cl. 331-116.0FE.
Dunkerton, Stephen H.; Reynolds, Gary R.; Chapman, Scott G.; and Erickson, Gary D., 4,642,633, Cl. 340-825.760.
Dunkerton, Stephen H.; Erickson, Gary D.; and Reynolds, Gary R., 4,701,758, Cl. 340-825.480.
Dydyk, Michael, 4,706,049, Cl. 333-110.000.
Ecklund, Lawrence M., 4,679,237, Cl. 381-15.000.
Ecklund, Lawrence M., 4,680,795, Cl. 381-15.000.
Ecklund, Lawrence M., 4,688,254, Cl. 381-15.000.
Ecklund, Lawrence M., 4,691,175, Cl. 331-1.00A.
Ecklund, Lawrence M., 4,712,241, Cl. 381-15.000.
Edminster, Robert E., 4,656,943, Cl. 102-208.000.
Edminster, Robert E., 4,708,511, Cl. 403-316.000.
Edminster, Robert E., 4,715,757, Cl. 411-411.000.
Eitrheim, John K.; Pappert, Bernard J.; and Someshwar, Ashok H., 4,663,546, Cl. 307-527.000.
Eitrheim, John K.; and Someshwar, Ashok H., 4,687,959, Cl. 307-465.000.
Enderby, Ralph T.; Ferrer, Enrique; and Shepherd, Wayne P., 4,713,631, Cl. 331-36.00C.
Engel, James R.; Stepien, Michael A.; and Glidewell, Keith J., 4,646,082, Cl. 340-825.540.
Erickson, Paul M., 4,683,445, Cl. 331-25.000.
Farace, Louis P., 4,677,913, Cl. 102-215.000.
Fay, Gary; Mansmann, Jeffrey G.; and Wellnitz, Keith M., 4,667,121, Cl. 307-580.000.
Fay, Gary; Mansmann, Jeffrey G.; and Wellnitz, Keith M., 4,703,390, Cl. 361-101.000.
Ferrer, Enrique; and Schlosser, Charles M., 4,686,528, Cl. 340-825.440.
Fette, Bruce A., 4,707,858, Cl. 381-43.000.
Fetty, Allan M., 4,673,443, Cl. 134-25.400.
Flannagan, Stephen T.; and Reed, Paul A., 4,636,991, Cl. 365-230.000.
Flannagan, Stephen T., 4,644,196, Cl. 307-530.000.
Flannagan, Stephen T., 4,644,197, Cl. 307-530.000.
Flannagan, Stephen T.; and Reed, Paul A., 4,661,931, Cl. 365-203.000.
Flannagan, Stephen T.; Reed, Paul A.; and Barnes, John, 4,698,788, Cl. 365-205.000.
Flannagan, Stephen T.; Day, Lawrence J.; and Simon, Barry A., 4,716,302, Cl. 307-200.00B.
Flannagan, Stephen T.; and Reed, Paul A., 4,716,550, Cl. 365-207.000.
Folk, Lee E.; and Asher, Reginald K., 4,707,722, Cl. 357-67.000.
Folk, Lee E.; and Derrington, Carl E., 4,708,012, Cl. 73-4.00R.
Ford, Alexander P., Jr., 4,636,015, Cl. 339-14.00R.
Ford, Alexander P., Jr., 4,636,016, Cl. 339-17.00F.
Foresman, Ralph E.; and Harries, Kerry J., 4,651,646, Cl. 102-208.000.
Foss, Leonard; Cousins, David; and Li, Edward, 4,658,786, Cl. 123-414.000.
Foutz, Eugene L., 4,643,910, Cl. 427-10.000.
Freyman, Bruce J.; Dorinski, Dale; and Shurboff, John, 4,700,276, Cl. 361-403.000.
Freyman, Bruce J.; Dorinski, Dale; and Shurboff, John, 4,700,473, Cl. 29-846.000.
Fullerton, Craig L., 4,675,620, Cl. 333-1.000.
Gallup, Michael G.; and McLaughlin, Kevin L., 4,703,203, Cl. 307-446.000.
Gannon, Mark A.; Kommrusch, Richard S.; and Yester, Francis R., Jr., 4,661,790, Cl. 333-234.000.
Garay, Oscar; Turner, Harvey N., Jr.; and Balzano, Quirino, 4,661,992, Cl. 455-89.000.

Gasparatis, Bernard V.; and Richardson, C. Patrick, 4,641,925, Cl. 350-345.000.
Gay, Michael J., 4,667,163, Cl. 330-129.000.
Genrich, Thad J., 4,636,734, Cl. 328-55.000.
Gibbs, Terry L., 4,636,755, Cl. 333-116.000.
Giles, Grady L.; Wilson, Jesse R.; and Hulett, Terry V., 4,680,760, Cl. 371-21.000.
Gioiosa, Anthony V., 4,672,448, Cl. 358-148.000.
Gran, Paul; Feiner, Haim; Ben-Dayan, Nissim; Stefaniu, Marian; and Mar-Chaim, Yechiam, 4,638,453, Cl. 364-900.000.
Granberg, Helge O.; and Coffman, Samuel L., 4,639,760, Cl. 357-75.000.
Gray, Randall C.; Hess, Robert M.; Jarrett, Robert B.; and Li, Edward E., 4,689,500, Cl. 307-362.000.
Gray, Randall C., 4,710,793, Cl. 357-44.000.
Green, Steven R.; De Muro, David M.; and Sokola, Raymond L., 4,692,726, Cl. 333-206.000.
Gregg, Ralph C., Jr., 4,692,763, Cl. 342-28.000.
Gregorcyk, Arthur J., 4,648,059, Cl. 364-769.000.
Groth, Edward J., Jr., 4,706,093, Cl. 342-427.000.
Guerin, Thomas R.; and Lester, Theodore V., 4,649,325, Cl. 315-383.000.
Haddad, Kenneth R.; and Vilmur, Richard J., 4,715,963, Cl. 379-390.000.
Haertling, Gene H., 4,636,786, Cl. 340-783.000.
Hall, Scott M., 4,669,095, Cl. 375-90.000.
Hammond, Ray L.; and Chatham, Thomas B., 4,708,889, Cl. 427-140.000.
Hanna, John E.; and Miller, Ira, 4,689,651, Cl. 357-36.000.
Hartman, Davis H.; and Richard, Fred V., 4,636,646, Cl. 250-551.000.
Heck, Joseph P., 4,653,117, Cl. 455-209.000.
Henderson, James M.; and Henderson, Gordon C., 4,654,755, Cl. 361-399.000.
Higgins, Robert J., Jr., 4,675,960, Cl. 29-25.350.
Higgins, Robert J., Jr., 4,716,331, Cl. 310-330.000.
Hooker, James R.; and Foss, Robert M., 4,696,776, Cl. 264-46.400.
Howard, Scott P.; Kozlowski, Ted A.; and Retzer, Michael H., 4,701,734, Cl. 379-63.000.
Hwang, Wei-Yean, 4,647,895, Cl. 338-22.00R.
Hwang, Wei-Yean, 4,677,415, Cl. 338-35.000.
Huntington, Robert C., 4,675,557, Cl. 307-475.000.
Hyon, Barry L., 4,694,201, Cl. 307-475.000.
Ipser, Steven C., 4,652,832, Cl. 328-14.000.
Ipser, Steven C., 4,701,934, Cl. 375-1.000.
Iveri, Rupin J., 4,683,437, Cl. 328-133.000.
Jobling, David T.; and Newton, Anthony D., 4,642,531, Cl. 315-371.000.
Jobling, David T.; and Newton, Anthony D., 4,698,556, Cl. 315-371.000.
Kane, Robert C., 4,704,588, Cl. 333-1.100.
Kasin, Michael T.; and Voss, Donald J., 4,694,257, Cl. 329-50.000.
Kasker, Kevin L., 4,652,997, Cl. 364-200.000.
Kasker, Kevin L., 4,709,324, Cl. 364-200.000.
Kasker, Kevin L.; and Cieslak, Ronald H., 4,713,790, Cl. 364-784.000.
Kech, Hubert H.; and Sargeaunt, Edward F., 4,635,351, Cl. 29-598.000.
Kechanski, Ronald P.; and Schmidt, Detlef W., 4,660,069, Cl. 357-68.000.
Kery, Daniel N., Jr.; Berg, Howard M.; and Stevenson, David W., 4,647,331, Cl. 156-273.900.
Kery, Daniel N., Jr.; and Seelbach, Walter C., 4,675,554, Cl. 307-455.000.
Kwalski, Joseph L., 4,654,655, Cl. 340-825.500.
Kaock, Jerome V., 4,649,536, Cl. 370-102.000.
Kaock, Jerome V., 4,663,769, Cl. 375-110.000.
Kaock, Jerome V., 4,680,778, Cl. 375-97.000.
Kechart, Roberto; and Scheid, William J., 4,654,631, Cl. 340-311.100.
Kezman, Gary; Heck, Joseph P.; Hansen, Kenneth A.; Enderby, Ralph; and Vidugiris, Bronis, 4,714,899, Cl. 331-1.00A.
Kitkowski, Peter A.; Nanni, Peter; Missele, Carl; O'Shea, Norman E.; and Pirih, Anthony M., 4,703,289, Cl. 333-1.100.
Kledz, Gerald P.; Bonta, Jeffrey D.; Schaeffer, Dennis R.; Tell, Daniel F.; and Lev, Valy, 4,654,867, Cl. 379-59.000.
Kig, Warren R., 4,714,983, Cl. 362-27.000.
Kizius, Robert C.; and Allen, Steven P., 4,691,124, Cl. 307-303.000.
Knox, Robert D., 4,704,625, Cl. 357-51.000.
Koge, Ronald N., 4,706,870, Cl. 228-123.000.
Kuning, Heinz, 4,697,155, Cl. 330-297.000.
Kunt, John L., 4,636,406, Cl. 427-96.000.
Kunt, John L., 4,693,209, Cl. 118-213.000.
Kuser, Theodore V.; and Bafaro, Michael P., 4,652,798, Cl. 315-371.000.
Kung, Howard K. H.; Nguyen, Bich-Yen; Alvis, John R.; and Ahmiesing, John, 4,693,781, Cl. 156-643.000.
Kunze, Stephen N., 4,649,543, Cl. 371-41.000.
Kunze, Stephen N., 4,668,917, Cl. 328-133.000.
Kuward; Edward; Foss, Leonard; and Cousins, David, 4,711,227, Cl. 156-643.000.
Kuy, Ross J.; and Jasper, Steven C., 4,675,882, Cl. 375-80.000.
Kuy, Paul T., 4,661,887, Cl. 361-405.000.
Kuy, Paul T., 4,672,421, Cl. 357-80.000.
Little, Wendell L.; and Burch, Kenneth K., 4,669,059, Cl. 364-900.000.
Lombardi, Steven A.; and Potter, David O., 4,642,479, Cl. 307-141.000.
Lombardi, Steven A.; and Potter, David O., 4,656,634, Cl. 371-68.000.
Longshore, Theodore F.; and Wanat, Ronald J., 4,667,172, Cl. 333-134.000.
Loyer, Bruce A., 4,652,874, Cl. 340-825.050.
Lucas, Alfred R.; and Leonard, Jerome C., 4,644,347, Cl. 340-825.040.
Lunn, Gerald K.; Main, W. Eric; and McGinn, Michael, 4,638,265, Cl. 333-214.000.
MacGregor, Douglas B.; and Moyer, William C., 4,649,477, Cl. 364-200.000.
MacGregor, Douglas B.; Zolnowsky, John; and Mothersole, David, 4,715,013, Cl. 364-900.000.
Main, W. Eric, 4,644,295, Cl. 330-301.000.
Main, William E., 4,709,171, Cl. 307-567.000.
Mansmann, Jeffrey G.; and McEntarfer, Philip W., 4,649,326, Cl. 318-293.000.
Mansmann, Jeffrey G., 4,654,568, Cl. 318-293.000.
Marabotto, Eduardo J.; and Bresin, Mark S., 4,690,471, Cl. 439-63.000.
Marabotto, Eduardo J.; Bresin, Mark S.; and Drake, Bick R., 4,714,439, Cl. 439-627.000.
Marry, Patrick J., 4,680,787, Cl. 379-63.000.
Martin, William J., 4,701,724, Cl. 333-103.000.
Martinsons, Robert; and Deutsch, Robert W., 4,704,685, Cl. 364-431.110.
Marvin, Dennis F.; and Steele, Roger, 4,658,223, Cl. 331-176.000.
May, Colin J., 4,682,131, Cl. 333-202.000.
McCarthy, Christopher I.; and Currier, David W., 4,658,091, Cl. 174-52.0PE.
McCarthy, Timothy D.; Christians, Scott T.; and Olmstead, A. Dale, 4,642,787, Cl. 364-561.000.
McKee, John M.; and Kurchart, Roberto, 4,704,740, Cl. 455-348.000.
McLaughlin, Kevin L., 4,636,665, Cl. 307-530.000.
McLaughlin, Kevin L., 4,638,186, Cl. 307-446.000.
McLaughlin, Kevin L., 4,649,294, Cl. 307-446.000.
McLaughlin, Kevin L.; and Seelbach, Walter C., 4,649,295, Cl. 307-446.000.
McLaughlin, Kevin L., 4,682,054, Cl. 307-446.000.
McLaughlin, Kevin L.; and Bushey, Thomas P., 4,696,097, Cl. 437-193.000.
McRoberts, Louis A.; and Felix, Arthur, Jr., 4,694,300, Cl. 342-195.000.
McShane, Michael B., 4,661,192, Cl. 156-292.000.
Menich, Barry J.; and Atkinson, Frederick G., 4,704,734, Cl. 455-33.000.
Meszko, William R.; and Chemelewski, Gary, 4,654,885, Cl. 455-219.000.
Miller, Ira, 4,642,551, Cl. 323-314.000.
Miller, Ira, 4,647,841, Cl. 323-316.000.
Miller, Ira; and Hanna, John E., 4,698,737, Cl. 363-63.000.
Miller, James A., Sr.; Allgood, Robert N.; and Ulmer, Richard W., 4,659,944, Cl. 307-350.000.
Miniet, Jay J., 4,677,528, Cl. 361-398.000.
Mischenko, Nicholas, 4,681,476, Cl. 403-42.000.
Mischenko, Nicholas, 4,711,361, Cl. 220-4.00F.
Mitchell, Curtis W.; and Johnson, Barry C., 4,702,941, Cl. 427-250.000.
Mitzlaff, James E., 4,636,741, Cl. 330-127.000.
Mooney, Charles W.; Phipps, Robert E.; and Kuznicki, William J., 4,635,836, Cl. 224-247.000.
Mooney, Charles W.; Phipps, Robert E.; and Kuznicki, William J., 4,706,350, Cl. 29-25.350.
Morris, Steven L.; and Lewis, Gary C., 4,680,471, Cl. 250-370.000.
Morton, Bruce L.; and Engles, Bruce E., 4,713,797, Cl. 365-208.000.
Morud, Jeffery L., 4,656,414, Cl. 323-289.000.
Moutrie, Michael F.; Sokola, Raymond L.; and Gordon, Phillip J., 4,716,391, Cl. 333-206.000.
Moyer, William C.; Zolnowsky, John E.; and Mothersole, David S., 4,635,193, Cl. 364-200.000.
Mrozack, James, Jr.; and Greenstein, Bernard, 4,703,658, Cl. 73-724.000.
Mukli, Glenn A.; Frew, Paul C.; and Mills, David R., 4,638,396, Cl. 361-101.000.
Nadir, Mark, 4,659,996, Cl. 328-167.000.
Nadir, Mark; and Hauck, John D., 4,701,759, Cl. 340-825.440.
Navidi, Salar; Trout, Brent L.; and Wernett, Fred C., 4,706,038, Cl. 330-271.000.
Novak, Carl V.; and Browne, Ronald R., 4,636,593, Cl. 200-5.00A.
Nowak, Michael E.; and Bach, Christopher R., 4,675,623, Cl. 333-26.000.
Ocken, Alfred G.; and Nordbrock, Raymond E., 4,710,657, Cl. 310-62.000.
Ohtsu, Kiyonao, 4,661,798, Cl. 340-744.000.
Olds, Keith A., 4,644,297, Cl. 331-17.000.
Olds, Keith A.; and Ward, Richard L., 4,667,197, Cl. 342-51.000.
O'Malley, Patrick J.; and Peterson, William M., 4,670,745, Cl. 340-801.000.
O'Neil, Vernon P., II, 4,687,957, Cl. 307-311.000.
Pace, W. David; and Welty, Dennis L., 4,689,506, Cl. 307-491.000.
Pace, W. David; and Wang, Wei C., 4,716,510, Cl. 363-49.000.

Pace, Wilson D., 4,709,159, Cl. 307-227.000.
Parker, Norman W., 4,680,794, Cl. 381-15.000.
Pelley, Perry H., III; and Lewandowski, Alan, 4,691,300, Cl. 365-200.000.
Pelley, Perry H., III; and Morton, Bruce L., 4,710,902, Cl. 365-222.000.
Perkins, Geoffrey W., 4,663,594, Cl. 328-155.000.
Perkins, Goeffrey W., 4,646,033, Cl. 331-116.00R.
Peters, Tulley M.; and Bruce, William C., Jr., 4,679,194, Cl. 371-16.000.
Peterson, Gregory A.; Loda, Michael A.; and Graff, Timothy E., 4,688,158, Cl. 363-21.000.
Peterson, John L.; and Swapp, Mavin, 4,694,242, Cl. 324-73.00R.
Peterson, William M., 4,675,666, Cl. 340-721.000.
Petratos, Nickie A.; Karl, David; and Bradford, William M., 4,680,676, Cl. 361-424.000.
Petrie, Adelore F., 4,680,667, Cl. 361-154.000.
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Phillips, James P.; and Gunther, Robert A., 4,672,685, Cl. 455-89.000.
Pigott, John M., 4,712,026, Cl. 307-600.000.
Pollard, David R.; and Goldbach, Robert H., 4,688,008, Cl. 333-253.000.
Priebe, Gordon W.; and Collard, Arthur D., 4,648,105, Cl. 377-64.000.
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Rathke, William M., 4,644,251, Cl. 323-267.000.
Rebeschini, Michael E., 4,706,036, Cl. 330-253.000.
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Reed, John D., 4,700,375, Cl. 379-61.000.
Reed, Paul A.; and Flannagan, Stephen T., 4,658,381, Cl. 365-203.000.
Rehbein, Clayton J.; and Battin, Leland B., Jr., 4,678,215, Cl. 292-247.000.
Reichart, Elwood C., 4,672,502, Cl. 361-101.000.
Remington, Scott; and Martino, William L., Jr., 4,661,724, Cl. 307-449.000.
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Richard, Fred V.; Hickernell, Fred S.; and Cho, Frederick Y., 4,701,008, Cl. 350-96.120.
Richardson, Charles P.; Kuhl, Virgil; Gasparattis, Bernard; Staple, Bruce; and Krieg, Larry M., 4,679,233, Cl. 379-433.000.
Richmond, Carl T.; and Lester, Joseph O., 4,682,174, Cl. 342-160.000.
Roberts, Clayton R.; and Nightingale, Stephen J., 4,661,997, Cl. 455-327.000.
Roche, Thomas A.; and Edmunster, Robert E., 4,636,581, Cl. 174-152.00R.
Roth, Scott S.; Steinberg, Joe; and Morgan, H. Scott, 4,662,956, Cl. 148-175.000.
Rozanski, Walter J., Jr.; and Laird, Kevin M., 4,703,520, Cl. 455-75.000.
Ruppel, John S., 4,637,065, Cl. 455-78.000.
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Ryan, Carl R., 4,646,005, Cl. 324-123.00R.
Ryan, Carl R., 4,656,646, Cl. 375-47.000.
Rybicki, Mathew A., 4,691,125, Cl. 307-353.000.
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Salzer, William E., 4,709,258, Cl. 358-27.000.
Samson, Robert, 4,638,406, Cl. 361-403.000.
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Schofield, William S., 4,695,886, Cl. 358-176.000.
Schultz, Warren J., 4,698,655, Cl. 357-23.400.
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Serfaty, Salomon; and Cohen, Mordechay, 4,651,026, Cl. 307-269.000.
Shanley, Charles W., 4,646,358, Cl. 455-35.000.
Sibigtroth, James M., 4,649,476, Cl. 364-200.000.
Sievers, Kirk A.; and Edwards, Arthur J., 4,670,705, Cl. 322-28.000.
Smith, Paul F.; Schorman, Eric R.; and Burke, Timothy M., 4,684,941, Cl. 340-825.520.
Smith, Robert; and Newton, Anthony, 4,654,604, Cl. 331-1.00A.
Snowden, Ralph E.; and Whitley, Robert D., 4,636,656, Cl. 307-267.000.
Snyder, Gilbert R., 4,699,854, Cl. 429-114.000.
Sodd, Lal C., 4,706,218, Cl. 365-189.000.
Sonnenberg, John R., 4,649,353, Cl. 331-8.000.
Sood, Lal C., 4,712,197, Cl. 365-230.000.
Spanjer, Keith G., 4,654,290, Cl. 430-138.000.
Stevenson, David W., 4,650,285, Cl. 350-320.000.
Stipanuk, James J., 4,703,458, Cl. 365-189.000.
Stocker, Herbert B.; and Deutsch, Robert W., 4,660,519, Cl. 123-339.000.
Sullivan, Daniel J., 4,696,701, Cl. 148-33.500.
Susak, David M.; and Vyne, Robert L., 4,713,626, Cl. 330-253.000.
Swapp, Mavin C.; and Frisbie, Milo W., 4,655,364, Cl. 220-307.000.
Swapp, Mavin C.; and Frisbie, Milo W., 4,666,710, Cl. 198-397.000.
Swapp, Mavin C.; and Frisbie, Milo W., 4,674,625, Cl. 198-803.010.
Swapp, Mavin C.; and Frisbie, Milo W., 4,676,359, Cl. 198-372.000.
Swapp, Mavin C.; and Frisbie, Milo W., 4,709,801, Cl. 198-464.200.
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Tassle, C. R. V.; and Freeburg, Thomas A., 4,714,923, Cl. 340-825.060.
Teng, Ker-Wen; Nguyen, Bich-Yen; and Parrillo, Louis C., 4,686,552, Cl. 357-23.600.
Terry, Lewis E.; and Thompson, Emily M., 4,675,713, Cl. 357-23.100.
Thomas, Patrick K.; Hartman, Dennis C.; and Dockrey, Jasper W., 4,680,086, Cl. 156-643.000.
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Thro, Stuart W., 4,670,906, Cl. 455-56.000.
Tietjen, Donald L.; and Cruess, Michael W., 4,683,534, Cl. 364-200.000.
Tischhauser, Thomas J.; and Hanley, Harold G., 4,700,027, Cl. 200-52.00R.
Titus, John D.; and Hall, Phillip E., 4,691,634, Cl. 102-245.000.
Titus, John D., 4,694,752, Cl. 102-215.000.
Toumayan, Burton B.; and Christians, Scott T., 4,651,307, Cl. 365-228.000.
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Uurtamo, Stephen J., 4,642,642, Cl. 343-165.000.
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Voss, Donald J., 4,646,270, Cl. 365-230.000.
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Vyne, Robert L.; and Susak, David M., 4,716,356, Cl. 323-312.000.
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Warder, Philip C., 4,644,260, Cl. 324-58.00B.
Watkins, James R., Jr.; and Huang, Ken T., 4,683,585, Cl. 379-426.000.
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Welty, Dennis L.; and Pace, W. David, 4,648,103, Cl. 377-52.000.
Westwick, Alan L.; and Whatley, Roger A., 4,636,738, Cl. 330-9.000.
Westwick, Alan L., 4,647,865, Cl. 330-51.000.
Westwick, Alan L., 4,697,152, Cl. 330-9.000.
Whatley, Roger A., 4,713,625, Cl. 330-149.000.
Wilkie, Brian F.; Gallup, Michael; Suchyta, John; and Raghunathan, Kuppuswamy, 4,698,750, Cl. 364-200.000.
Williams, Tim A., 4,682,302, Cl. 364-768.000.
Wilson, Syd R.; Gregory, Richard B.; and Varker, Charles J., 4,682,407, Cl. 29-576.00B.
Wilson, Timothy J.; and Erickson, Paul M., 4,679,028, Cl. 340-347.0CC.
Wimmer, Martin A., 4,697,765, Cl. 244-152.000.
Wisseman, Leo L., 4,689,576, Cl. 328-143.000.
Wrathall, Robert S.; and Sutor, Judy L., 4,701,718, Cl. 330-253.000.
Wrathall, Robert S.; and McLaughlin, Kevin L., 4,701,883, Cl. 365-154.000.
Wurzburg, Henry; Kelley, Stephen H.; and McCroskey, Noel M., 4,689,788, Cl. 370-110.100.
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Zabarsky, Alan P.; Steiger, Suzette D.; Staiano, Edward F.; and Sandvos, Jerry L., 4,644,351, Cl. 340-825.440.
Zdunek, Kenneth J.; Heyman, Bruce D.; and Sasuta, Michael D., 4,646,345, Cl. 379-62.000.
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Zoerner, Glen J., 4,636,587, Cl. 379-377.000.
Zolnowsky, John; Crudele, Lester M.; and Spak, Michael E., 4,710,866, Cl. 364-200.000.

MotorTech, Inc.: *See*—
Yunick, Henry, 4,637,365, Cl. 123-545.000.

Motosugi, Kenzo; Kifune, Koji; Yamaguchi, Yasuhiko; Nobe, Yasuo; and Tanae, Hiroyuki, to Unitika Ltd. Shaped chitin body. 4,699,135, 10-13-87, Cl. 128-156.000.

Motosugi, Takanori: *See*—
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asumoto, Tsuyoshi; Inoue, Akihisa; Oka, Tetsuo; Ishii, Masami; Motoyama, Hiroshi; and Yabuno, Ryohei, 4,655,079, Cl. 73-295.000.
ama, Katsumi: *See*—
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ama, Tadashi, to Sony Corporation. Video signal recording and oducing apparatus. 4,638,375, 1-20-87, Cl. 358-338.000.
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mus, Leslie P.; Trojan, Donald R.; Mott, Bradley; and trampfer, John, 4,674,044, Cl. 364-408.000.
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ves, Doyle E.; and Mott, Keith C., 4,703,959, Cl. 285-332.300.
hilip J., to Borg-Warner Automotive, Inc. Chain-belt. 4,650,445, 87, Cl. 474-201.000.
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Coll, John W.; Mott, Philip J.; and Salle, Ralph D., 4,706,789, l. 192-0.075.
ichard C., to Honeywell Inc. Temperature and flow station. 102, 5-26-87, Cl. 374-142.000.
homas W.: *See*—
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Tatsuo, to Nippon Thompson Co., Ltd. Linear motion rolling- t bearing assembly. 4,647,226, 3-3-87, Cl. 384-45.000.
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r, Jack, 4,637,109, Cl. 29-116.0AD.
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Edward H.; Hedrick, Ross M.; and Silverman, Bernard, to Rim Nylon VOF. Stabilized lactam polymerization solutions. 085, 6-9-87, Cl. 524-718.000.
Edward H.; and Hedrick, Ross M., to DSM Rim Nylon VOF. n polymerization initiators. 4,677,189, 6-30-87, Cl. 528-323.000.
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eresa M.: *See*—
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Mouche, Richard J.; and Song, Peter, to Nalco Chemical Company. Use of alkali metal nitrites to inhibit H_2S formation in flue gas desulfurization system sludges. 4,681,687, 7-21-87, Cl. 210-764.000.
Mouchel, Jacques H.: *See*—
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Mouchi, Daniel E. Track lighting apparatus. 4,676,567, 6-30-87, Cl. 439-207.000.
Mouchotte, Daniel G. E., to Cimsa Sintra (S.A.). Method of protecting security documents. 4,710,617, 12-1-87, Cl. 235-487.000.
Mouhot, Frederic; Barnabe, Jean-Pierre; Hoblingre, Andre; and Clerc, Michel, to Cycles Peugeot. Fixing device for a tubular part, in particular for the steering column of a vehicle. 4,648,624, 3-10-87, Cl. 280-775.000.
Mouhot, Frederic M.: *See*—
Clerc, Michel M.; Mouhot, Frederic M.; and Barnabe, Jean-Pierre, 4,693,136, Cl. 74-492.000.
Mouille, Rene L.; Declerco, Marc; Jalaguier, Jean-Pierre; and Jaugey, Bernard, to Societe Nationale Industrielle et Aerospatiale. Process for manufacturing a variable pitch multi-blade propeller by molding resin-impregnated fails around a preform. 4,639,284, 1-27-87, Cl. 156-213.000.
Mouissie, Bob, to Du Pont de Nemours, E. I., and Company. Edge connector with clamping contact elements. 4,701,002, 10-20-87, Cl. 439-426.000.
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Moulding, Thomas S., Jr.; and Ellis, Donald G. Method of opening a medicine package. 4,690,676, 9-1-87, Cl. 604-189.000.
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Moulds, Clinton W., III: *See*—
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Moulin, Norbert L., to Hughes Aircraft Company. Optical fiber waveguide connector system. 4,707,068, 11-17-87, Cl. 350-96.210.
Moulinages Henri Lacroix: *See*—
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Mounier-Poulat, Francois; Beaurellet, Jean; and Gardier, Patrick, to Renault Vehicules Industriels. Fastening of a leaf spring of composite material. 4,643,406, 2-17-87, Cl. 267-52.000.
Mount, Houston B., II, to Amoco Corporation. Telemetry scheme with slope modulated signal. 4,649,550, 3-10-87, Cl. 375-37.000.
Mount, Houston B., II, to Kera Corporation. Keratograph autoscanner system. 4,685,140, 8-4-87, Cl. 382-6.000.
Mount, Houston B., II, to Amoco Corporation. Viscosity-temperature compensator for hydraulic systems. 4,685,294, 8-11-87, Cl. 60-329.000.
Mount Isa Mines Limited: *See*—
Hollis, Richard G., 4,678,507, Cl. 75-24.000.
Mount Sinai School of Medicine of the City University of New York: *See*—
Bekesi, Julius G.; Holland, James F.; and Tsang, Peter H., 4,666,834, Cl. 435-29.000.
Mountain Computer, Inc.: *See*—
Burke, Ken V.; Jamieson, Jon V.; and Keller, Ernie, 4,693,659, Cl. 414-131.000.
Garratt, Ford; and Thompson, Steven, 4,646,178, Cl. 360-98.000.
Mountain States Telephone and Telegraph Company, The: *See*—
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Mountain West Marble & Onyx, Inc.: *See*—
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Mouret, Patrick, to Rivierre Casalis. Tying mechanism for rolled bales in a hay baler. 4,649,812, 3-17-87, Cl. 100-5.000.

Mourey, Bruno; Hareng, Michel; Le Pesant, Jean Pierre; and Perbet, Jean-Noel, to Thomson CSF. Memory ferroelectric display addressed with AC and DC voltages. 4,668,051, 5-26-87, Cl. 350-350.00S.

Mourey, Bruno: *See*—
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Mourgue, Pascal; and Hardy, Patrice. Lightweight, knockdown, sport trimaran. 4,664,049, 5-12-87, Cl. 114-39.000.

Mouri, Akihiko; and Ikeda, Kazushige, to Kubota, Ltd. Swivelling working vehicle. 4,680,929, 7-21-87, Cl. 60-368.000.

Mouri, Hidemasa; Tobita, Michiaki; Eto, Naonobu; Kouno, Shunzo; Ohkura, Kosuke; Toganoh, Shigeo; Arai, Ryuichi; Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hiromi, to Canon Kabushiki Kaisha. Recording medium. 4,642,247, 2-10-87, Cl. 427-214.000.

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Mouri, Yasushi; Katayama, Kazuzo; Ichiryu, Taku; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, to Mitsubishi Yukogyo. Floating ring device for sealing shaft of turbo machine. 4,706,969, 11-17-87, Cl. 277-83.000.

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Katayama, Kazuso; Ichiryuu, Taku; Mouri, Yasushi; Mitsuhashi, Tsuneyoshi; and Kobayashi, Masanori, 4,708,587, Cl. 415-104.000.
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Mousel, Canellen K. Vehicular sunrays-barrier assembly. 4,687,246, 8-18-87, Cl. 296-97.00G.

Moussaian, Gregoire. Rapidly assembled and disassembled connecting device. 4,635,974, 1-13-87, Cl. 285-305.000.

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Mousston, Roland: *See*—
Billet, Rene ; Mousston, Roland; and Bionaz, Jean, 4,697,417, Cl. 60-338.000.

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Moutardier, Jacques, to Aerospatiale Societe Nationale Industrielle. Spring-driven gyroscope. 4,709,586, 12-1-87, Cl. 74-5.120.

Mouton, David E. Downhole fluid supercharger. 4,633,958, 1-6-87, Cl. 175-65.000.

Moutot, Pascal. Foldable staircases for vehicles. 4,669,574, 6-2-87, Cl. 182-88.000.

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Sayed, Edmond A., 4,672,310, Cl. 324-133.000.

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Mowat, James F., Jr.: *See*—
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Mowatt, Harry C.; MacDonnell, Alfred T.; and Clark, George T. Animal trap. 4,706,406, 11-17-87, Cl. 43-61.000.

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Mowbray, Dorian F., to Lucas Industries Public Limited Company. Fuel injection nozzles. 4,635,853, 1-13-87, Cl. 239-533.300.

Mowbray, Dorian F., to Lucas Industries. Liquid fuel pumping apparatus. 4,652,220, 3-24-87, Cl. 417-462.000.

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Rouse, John A.; and Mowbray, Dorian F., 4,699,108, Cl. 123-450.000.

Mower, Dan C.; Wolf, Peter H.; Slade, Boyd E.; and Albertalli, David, to Dataproducts Corporation. Control system for matrix print head 4,713,623, 12-15-87, Cl. 328-72.000.

Mowill, R. Jan, to A/S Kongsberg Vapenfabrikk. Dual entry radial turbine gas generator. 4,641,495, 2-10-87, Cl. 60-39.161.

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Mowill, Rolf J., to A S Kongsberg Vapenfabrikk. Movable spike, variable entrance geometry pipe diffuser with vibration suppression. 4,678,396, 7-7-87, Cl. 415-148.000.

Mowinski, Josephine A.: *See*—
Manning, Thomas J.; Ritzert, Jack L.; Blouin, Joseph D.; and Mowinski, Josephine A., 4,690,435, Cl. 285-256.000.

Mowles, Thomas F.: *See*—
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Felix, Arthur M.; Heimer, Edgar P.; and Mowles, Thomas F., 4,649,131, Cl. 514-12.000.

Mowrer, Norman R., to Ameron, Inc. Solventless polyurethane spray compositions and method for applying them. 4,695,618, 9-22-87, Cl. 528-55.000.

Mowry, Harry E.; and Hawkes, Richard B., to Harris Graphics Corporation. Collator with moveable stitcher over saddle conveyor system. 4,641,825, 2-10-87, Cl. 270-53.000.

Mowry, John R., to UOP Inc. Production of aromatic hydrocarbons from natural gas. 4,677,235, 6-30-87, Cl. 585-415.000.

Mowry, William H., Jr., to Standard Register Company, The. Document protection using multicolor characters. 4,662,651, 5-5-87, Cl. 283-70.000.

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Moxon, Edwin C., to Stypher Corporation, The. Apparatus for decoding video address code signals. 4,639,792, 1-27-87, Cl. 358-335.000.

Moy, Alexander, to Beltone Electronics Corporation. Electrical film resistor. 4,647,899, 3-3-87, Cl. 338-309.000.

Moy, Howard; Thomas, James R.; and Droske, Donald J., to General Motors Corporation. Convertible top. 4,693,509, 9-15-87, Cl. 296-201.000.

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Moy, Wayne K.: *See*—
Benenati, Robert L.; and Moy, Wayne K., 4,680,527, Cl. 320-2.000.

Moyaert, Werner, to Siemens Aktiengesellschaft. Contact spring. 4,702,545, 10-27-87, Cl. 439-856.000.

Moye, Lawrence D.: *See*—
Schmiedel, James P.; and Moye, Lawrence D., 4,705,341, Cl. 439-544.000.

Moyer, John R.: *See*—
Kalnins, John M.; McIntyre, James A.; Moyer, John R.; Phillips, Robert F.; and Snoble, Karel A. J., 4,701,247, Cl. 204-131.000.

Moyer, Mark C.; Perry, William D.; Silvus, H. Stanley, Jr.; Gibson, William C.; and Kusenberger, Felix N., deceased (by Kusenberger, Lou A., heiress), to Exxon Production Research Co. Computerized and motorized electromagnetic flux leakage internal diameter tubular inspection device. 4,675,604, 6-23-87, Cl. 324-220.000.

Moyer, Robert. Portable ladder step. 4,646,878, 3-3-87, Cl. 182-121.000.

Moyer, Roy E.: *See*—
Klassen, David D.; Moyer, Roy E.; Lastrina, Frank A.; and Tameo, Robert P., 4,685,942, Cl. 55-306.000.

r, Wendell W.: *See*—
ebbaut, Christian A. M.; Gac, Norman; Lopez, Eugene F.; Moyer, Wendell W.; Terrell, David; and Tsou, Patrick K., 4,670,069, Cl. 156-48.000.
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ombard, Claude; Moyses, Claude; Catter, Gerard; and Montaron, Bernard, 4,637,246, Cl. 73-35.000.
zen, Barbara R.: *See*—
ann, Daniel J.; Mulholland, Wayne A.; Bond, Robert H.; Olla, Michael A.; Cupples, Jerry S.; Tsitovsky, Ilya L.; Mozdzen, Barbara R.; Held, Charles F.; Wilson, Linda S.; and Nguyen, Yen T., 4,685,998, Cl. 156-633.000.
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Moreland, Jack, 4,641,400, Cl. 24-389.000.
Moreland, Jack, 4,682,911, Cl. 405-53.000.
Systems, Inc.: *See*—
uschkofski, Gerald J.; and Byrd, William A., 4,665,279, Cl. 174-40.00R.
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Dominico, James; and Mrak, Joseph L., 4,671,093, Cl. 72-133.000.
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Vynosky, Charles E.; and Mraz, Joseph, 4,711,607, Cl. 406-30.000.
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Owens, Thomas M.; Wagner, Thomas J.; and Mrazek, William C., Jr., 4,702,924, Cl. 426-92.000.
na, Stephen A.; and Whipple, Michael J., to Westinghouse Elec- Corp. Circuit breaker with adjustable magnetic trip unit. 91,182, 9-1-87, Cl. 335-176.000.
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aabe, Rodney D.; Mrowka, Joseph J.; McCuin, Jon P.; and Noonan, Joseph F., 4,679,120, Cl. 361-358.000.
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Mroz, Joseph. Internal combustion engine. 4,708,096, 11-24-87, Cl. 123-48.00A.
Mrozack, James, Jr.; and Greenstein, Bernard, to Motorola, Inc. Pressure sensor assembly. 4,703,658, 11-3-87, Cl. 73-724.000.
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Kulander, Hans, 4,715,838, Cl. 445-61.000.
M'Sadoques, Andre J.; and Morby, John A., to General Electric Company. Adapter for molded case circuit breaker support saddle. 4,646,199, 2-24-87, Cl. 361-353.000.
M'Sadoques, Andre J.; Rich, Joseph F.; and Shuttleworth, George L., to General Electric Company. Circuit breaker support saddle with removable phase barriers. 4,646,200, 2-24-87, Cl. 361-355.000.
M'Sadoques, Andre J.; and Sabatella, Robert J., to General Electric Company. Method of retaining molded case circuit breakers. 4,670,963, 6-9-87, Cl. 29-526.00R.
MSK-Verpackungs-System Gesellschaft mit beschrankter Haftung: *See*—
Hannen, Reiner W., 4,651,508, Cl. 53-557.000.
MSL Industries, Inc.: *See*—
Plunkett, Larry E.; and Gresho, William M., 4,636,669, Cl. 310-51.000.
Mt. Diablo Tool and Die, Inc.: *See*—
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Mt. Moriah Trust: *See*—
Hill, Gilman A.; Passamaneck, Richard S.; and Touryan, Kenell J., 4,633,951, Cl. 166-308.000.
Hill, Gilman A.; Passamaneck, Richard S.; and Touryan, Kenell J., 4,683,943, Cl. 166-63.000.
MT Motoren-und Turbinen Union Munchen GmbH: *See*—
Wohrl, Bernhard; and Jabs, Alfred, 4,679,619, Cl. 165-81.000.
MTA Kozponti Fizikai Kutato Intezete: *See*—
Szabo, Bela; Vagvolgyi, Jeno; and Feher, Istvan, 4,694,208, Cl. 307-603.000.
MTA Kozponti Kemiai I Kutato Intezet: *See*—
Kosnives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Halesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Bacskai, Gyorgy; and Kuronya, Istvan, 4,708,733, Cl. 71-94.000.
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MTC Messtechnik und Optelektronik AG: *See*—
Bolkow, Ludwig; Mehnert, Walter; and Chaborski, Hoiko, 4,699,508, Cl. 356-5.000.
MTD Products Inc.: *See*—
Hauser, Hans; and Sowa, Stanley, 4,671,680, Cl. 384-428.000.
MTE Hydraulics, Inc.: *See*—
Chrzanowski, Richard S., 4,703,937, Cl. 277-29.000.
M'Timkulu, Thabiso: *See*—
Loor, Rueyming; M'Timkulu, Thabiso; and DeWitt, Susanne K., 4,690,890, Cl. 435-7.000.
MTM Obermaier GmbH & Co. KG: *See*—
Magin, Berthold, 4,677,717, Cl. 26-18.500.
MTS Minitunnelsysteme GmbH: *See*—
Pfeiffer, Ludwig, 4,688,854, Cl. 299-33.000.
MTS Systems Corporation: *See*—
Haeg, Steven R., 4,658,656, Cl. 73-669.000.
Harvey, Dennis N.; and Bertolasi, Robert B., 4,690,001, Cl. 73-800.000.
Maue, Dale N.; and Lund, Richard A., 4,679,591, Cl. 137-624.130.
Meyer, Richard A.; and Lowe, Anthony E., 4,640,138, Cl. 73-862.040.
MTS Vektronics Corporation: *See*—
Eaton, Homer L., 4,638,558, Cl. 29-861.000.
Eaton, Homer L., 4,658,503, Cl. 29-854.000.
Eaton, Homer L., 4,685,636, Cl. 242-129.000.
MTU-Motoren- und Turbinen-Union Friedrichshafen GmbH: *See*—
Dinger, Hans; and Klotz, Helmut, 4,669,269, Cl. 60-609.000.
Leicht, Werner; Ruetz, Georg; and Giesselmann, Juergen, 4,702,672, Cl. 415-164.000.
Ruetz, Georg; and Giesselmann, Jurgen, 4,696,620, Cl. 415-164.000.
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van Rinsum, Cornelis, 4,671,226, Cl. 123-179.00F.
Wuensche, Dieter; and Eisenblaetter, Norbert, 4,693,079, Cl. 60-320.000.
MTU Motoren-und Turbinen-Union Munchen GmbH: *See*—
Ding, Kurt; Brandt, Helmut; and Wenzl, Josef, 4,703,326, Cl. 340-870.160.
Hagemeister, Klaus, 4,698,888, Cl. 29-157.30R.
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Huether, Werner, 4,645,421, Cl. 416-92.000.
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Huller, Josef, 4,643,648, Cl. 416-241.00B.
Lorenz, Joachim; and Gattinger, Martin, 4,714,139, Cl. 184-6.110.
Pesch, Wilfried, 4,696,024, Cl. 378-73.000.
Popp, Joachim, 4,642,027, Cl. 415-177.000.
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Rohra, Alois; and Wildner, Walter, 4,693,616, Cl. 384-99.000.
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Rossmann, Axel; and Huther, Werner, 4,692,288, Cl. 264-56.000.
Weiler, Wolfgang, 4,709,546, Cl. 60-39.290.

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Najjar, Mitri S.; Becker, Michael W.; and Muan, Arnulf, 4,657,698, Cl. 252-373.000.
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Maccione, Vincent J. Urinal. 4,665,571, 5-19-87, Cl. 4-144.100.

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Reinmold, Heinz-Josef; Mucha, Horst; and Friedrich, Heinz-Dieter, 4,648,210, Cl. 51-165.770.

Mucha, John A.: *See*—
Bossard, Peter R.; and Mucha, John A., 4,711,118, Cl. 73-73.000.

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Muchel, Franz, to Carl-Zeiss-Stiftung. Optical system for therapeutic use of laser light. 4,669,839, 6-2-87, Cl. 351-221.000.

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Kauss, Wolfgang; Mucheyer, Norbert; and Wittich, Kurt, 4,667,744, Cl. 172-2.000.
Kauss, Wolfgang; and Mucheyer, Norbert, 4,712,375, Cl. 60-405.000.
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Muchnik, Boris J.; and Spong, Fred W., to Kerdix, Inc. Magneto-optic recording structure and method. 4,694,358, 9-15-87, Cl. 360-59.000.

Muchnik, Grigory F.: *See*—
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Muchowski, Joseph M.: *See*—
Clark, Robin; Muchowski, Joseph M.; Chiu, Fang-Ting; Gardner, John O.; and Berger, Jacob, 4,667,038, Cl. 546-145.000.
Clark, Robin; Muchowski, Joseph M.; Chiu, Fang-Ting; Gardner, John O.; and Berger, Jacob, 4,681,889, Cl. 514-307.000.
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Guzman, Angel; and Muchowski, Joseph M., 4,670,465, Cl. 514-522.000.

Muck, Jurgen; Fischer, Hans; and Kramer, Richard, to Siemens Aktiengesellschaft. Method for balancing wound rotors of electrical machines. 4,642,886, 2-17-87, Cl. 29-598.000.

Muck, Karl-Friedrich; and Burg, Karlheinz, to Hoechst Aktiengesellschaft. Process for the continuous preparation of trioxane. 4,703,129, 10-27-87, Cl. 549-368.000.

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Muck, Wendell C.; and Yelton, Darrell, to Federal-Mogul Corporation. Blade shaft drive assembly. 4,664,645, 5-12-87, Cl. 474-84.000.

Mucke, Bruno: *See*—
Klotzer, Sieghart; Mucke, Bruno; Mahlberg, Gunther; and Becker, Manfred, 4,705,747, Cl. 430-550.000.

Muckenfuhs, Delmar R.; and Van Coney, Robert H., to Procter & Gamble Company, The. Liquid product dispensing package with self draining feature employing drip concentrator. 4,696,416, 9-29-87, Cl. 222-109.000.

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Mudge, Dennis; Coskie, Joseph; Jacobs, Edward H.; and Harris, David R., to American Machine & Science, Inc. Coupling construction and clamp therefor. 4,643,410, 2-17-87, Cl. 269-64.000.

Mudge, Paul R., to National Starch and Chemical Corporation. Flocking adhesives based on eva-maleate copolymers. 4,692,366, 9-8-87, Cl. 428-90.000.

Mudge, Paul R., to National Starch and Chemical Corporation. Binders for nonwovens based on EVA-maleate copolymers. 4,702,957, 10-27-87, Cl. 428-288.000.

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Mudge, Richard C., to Leucadia, Inc. Plastic net composed of coextruded composite strands. 4,656,075, 4-7-87, Cl. 428-110.000.

Mudge, Richard C.; and Fair, Timothy K., to Leucadia, Inc. Multiple-layer reinforced laminate. 4,661,389, 4-28-87, Cl. 428-110.000.

Mudzhiri, Yason N.: *See*—
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Muegge, Ernest L.: *See*—
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Stofleth, David F.; and Muehlbauer, James H., 4,687,686, Cl. 427-421.000.

Muehlberger, Erich, to Electro-Plasma, Inc. Method of and apparatus providing oxide reduction in a plasma environment. 4,689,461, 8-25-87, Cl. 219-121.0PL.

Muehleisen, Thomas C., to Alltel Corporation. Computer security guard circuit. 4,679,226, 7-7-87, Cl. 379-95.000.

Muehlenbruch, Dieter, to Dr. Ing. Rudolf Hell GmbH. Method and apparatus for determining the trimmed images of originals for reproduction on printing technology. 4,645,336, 2-24-87, Cl. 355-61.000.

Muehlhausen, Robert A.: *See*—
Sobieski, James F.; and Muehlhausen, Robert A., 4,657,371, Cl. 355-3.00R.

Muehling, Richard, to Augat Inc. Plastic pin grid array chip carrier. 4,677,526, 6-30-87, Cl. 361-386.000.

Muehlthaler, Wolfgang: *See*—
Merkel, Dieter; Muehlthaler, Wolfgang; Diem, Hans; and Matthus, Guenther, 4,700,000, Cl. 562-606.000.

Muellenberg, Ralph. Clamp apparatus for connecting members having cylindrical surfaces. 4,702,635, 10-27-87, Cl. 403-15.000.

Muellenberg, Ralph. Conical stressing device for connecting a hub to a shaft. 4,702,637, 10-27-87, Cl. 403-373.000.

Mueller, Alfred: *See*—
Penzel, Erich; Prange, Walter; Melan, Michael; Wistuba, Eckehardt; and Mueller, Alfred, 4,663,384, Cl. 524-519.000.

Mueller, Allan H.; Perkins, Dean P.; and Evans, Rhys M., to Geosource Inc. Automatic force control for a seismic vibrator. 4,692,912, 9-8-87, Cl. 367-190.000.

Mueller, Allan H.; and Perkins, Dean P., to Geosource Inc. Reaction mass acceleration feedback device. 4,706,231, 11-10-87, Cl. 367-190.000.

Mueller, Arthur L., to AMP Incorporated. Electrical connector for flexible film circuits. 4,639,063, 1-27-87, Cl. 339-75.00M.

Mueller, Beat, to Zellweger Uster, Ltd. Digital filters for remote control receivers. 4,653,016, 3-24-87, Cl. 364-724.000.

Mueller, Berthold: *See*—
Oehsen, Ubbo v.; Stecher, Karlheinz; Koehler, Waldemar; Mueller, Berthold; Brunnmueller, Fritz; and Schneider, Rolf, 4,693,877, Cl. 423-373.000.

Mueller, Birgit: *See*—
Mack, Gerhard; Mueller, Birgit; Jung, Guenter; and Frass, Werner, 4,716,098, Cl. 430-331.000.

Mueller, Carl A.: *See*—
Graf, Volker; Gueret, Pierre L.; and Mueller, Carl A., 4,647,954, Cl. 357-23.300.

Mueller, Claus D.: *See*—
Franke, Albrecht, deceased; Mueller, Claus D.; and Lenke, Dieter, 4,670,435, Cl. 514-239.000.

Mueller, Clifford F., to Schwinn Bicycle Company. Bicycle frame with asymmetric chain stay for performing freestyle maneuvers. 4,661,175, 5-19-87, Cl. 280-291.000.

Mueller Co.: *See*—
Daghe, Joseph L.; Humes, Dennis W.; Stanley, Mervin D.; and Bouc, Gary L., 4,690,019, Cl. 81-99.000.
Hauffe, William L., deceased; and Daghe, Joseph L., 4,699,168, Cl. 137-385.000.

Mueller, Dale A.: *See*—
Adams, John T.; and Mueller, Dale A., 4,684,060, Cl. 236-11.000.

Mueller, Dale E.: *See*—
Burk, Jeffrey L.; Bottas, Michael J.; Pielemeier, John W.; and Mueller, Dale E., 4,693,095, Cl. 68-134.000.

Mueller, Dieter J., to Huels Aktiengesellschaft. Process for the production of 1,2,3-trichloro-2-methylpropane. 4,702,809, 10-27-87, Cl. 204-157.630.

Mueller, Dietmar; and Reinelt, Karlheinz, to Rheinmetall GmbH. Propellant charge casing. 4,709,636, 12-1-87, Cl. 102-431.000.

Mueller, Frank J., to Procter & Gamble Company, The. Process for coloring granular product by admixing with pigment/diluent premix. 4,671,886, 6-9-87, Cl. 252-140.000.

Mueller, Fritz; and Pienta, Lothar, to Gebrueder Mueller Apparatebau GmbH & Co. KG. Pressure measuring apparatus. 4,641,533, 2-10-87, Cl. 73-706.000.

Mueller, Fritz; and Pienta, Lothar. Drive mechanism for a valve. 4,705,061, 11-10-87, Cl. 137-269.000.

Mueller, Fritz. Swinging device. 4,715,580, 12-29-87, Cl. 251-229.000.

Mueller, Gerhard; Mars, Matthias; Jarre, Wolfgang; Baumann, Edwin; and Buethe, Ingolf, to BASF Aktiengesellschaft. Process for the preparation of elastic polyurethane flexible foams usable in cold-mold techniques to produce molded articles. 4,668,708, 5-26-87, Cl. 521-159.000.

Mueller, Gerhard: *See*—
Grenzendoerfer, Dietmar; Wierzgon, Achim; Mueller, Gerhard; Erth, Dieter; Guenther, Ludwig; and Kuenzel, Rolf, 4,638,647, Cl. 66-84.00A.
Hoerenz, Peter G.; and Mueller, Gerhard, 4,657,013, Cl. 128-303.100.
Hoerenz, Peter G.; and Mueller, Gerhard, 4,682,595, Cl. 128-303.100.
Lang, Walter; Mueller, Gerhard; and Weimer, Eugen, 4,644,948, Cl. 128-303.100.
Rausch, Werner; and Mueller, Gerhard, 4,637,838, Cl. 148-6.15Z.

Mueller, Hans; and Puetter, Hermann, to BASF Aktiengesellschaft. Production of bipolar membranes. 4,670,125, 6-2-87, Cl. 204-296.000.

Mueller, Heinz: *See*—
Wuhrmann, Juan C.; Mueller, Heinz; Brands, Karl-Dieter; Asbeck, Adolf; and Heidrich, Jochen, 4,655,960, Cl. 252-321.000.
Wuhrmann, Juan C.; Mueller, Heinz; Brands, Karl-Dieter; Asbeck, Adolf; and Heidrich, Jochen, 4,655,961, Cl. 252-321.000.

Mueller, Helga: Mounting board for needlework designs. 4,642,923, 2-17-87, Cl. 38-102.000.

Mueller, Helmut; and Bretzger, Reinhard, to Voith Transmit GmbH: Journal cross with high fatigue strength. 4,634,401, 1-6-87, Cl. 464-136.000.

Mueller, Herbert, to BASF Aktiengesellschaft: Reducing the content of cyclic oligomeric ethers in polytetramethylene ether glycols or polyoxybutylene polyoxyalkylene glycols. 4,636,097, 1-20-87, Cl. 568-617.000.

Mueller, Herbert, to BASF Aktiengesellschaft: Narrowing the molecular weight distribution of polytetrahydrofuran. 4,670,519, 6-2-87, Cl. 525-342.000.

Mueller, Herbert: *See*—
Moench, Julius; Rentzsch, Heinz; Lang, Georg; and Mueller, Herbert, 4,654,243, Cl. 428-46.000.
Nelson, David C.; Fresh, Michael J.; and Mueller, Herbert, 4,715,841, Cl. 446-222.000.

Mueller, James P.; and Phelps, Weldon L., to Caterpillar Inc.: Clutch brake steering control. 4,702,358, 10-27-87, Cl. 192-13.00R.

Mueller, James W.; and Berning, Scott A., to Halliburton Company: Apparatus for making non-contact angular deflection measurements. 4,668,911, 5-26-87, Cl. 324-208.000.

Mueller, Karl F.: *See*—
Goldenberg, Merrill; and Mueller, Karl F., 4,670,506, Cl. 525-59.000.

Mueller, Klaus F., to Klaus F. Mueller Pharmaverkaufsbuero: Firma: Dispensing closure for chemical and pharmaceutical substances, and method of manufacturing same. 4,671,328, 6-9-87, Cl. 141-1.000.

Mueller-Mall, Rudolf; Mefan, Michael; Wistuba, Eckehardt; and Mathaes, Lothar, to BASF Aktiengesellschaft: Preparation of polymer dispersions which form block-resistant films. 4,654,397, 3-31-87, Cl. 524-460.000.

Mueller, Manfred: *See*—
Schlosser, Fritz; Arndt, Peter J.; Mueller, Manfred; and Janssen, Lothar, 4,672,105, Cl. 560-217.000.

Mueller, Martin: Apparatus for heating pasta and sauce. 4,635,812, 1-13-87, Cl. 220-70.000.

Mueller, Martin L.: Tamper-evident sealed container and tamper-evident tube and bands and apparatus and method of making and using same. 4,691,835, 9-8-87, Cl. 215-246.000.

Mueller, Max A.: *See*—
Davis, Steven S.; Mueller, Max A.; and Janecek, Kenneth F., 4,697,511, Cl. 100-37.000.

Mueller, Michael: *See*—
Leyrer, Reinhold J.; Wegner, Gerhard; and Mueller, Michael, 4,640,960, Cl. 525-388.000.
Leyrer, Reinhold J.; Wegner, Gerhard; and Mueller, Michael, 4,649,100, Cl. 430-326.000.

Mueller, Michael A.: *See*—
Almblad, Donald F.; Mueller, Michael A.; and Drehobl, Thomas L., 4,651,604, Cl. 83-50.000.

Mueller, Michael W.: *See*—
Mueller, Teresa L.; and Mueller, Michael W., 4,715,634, Cl. 294-50.500.

Mueller, Norbert: *See*—
Ohlinger, Manfred; Mueller, Norbert; Rudolf, Peter; and Wettstein, Eugen, 4,670,177, Cl. 252-62.550.

Mueller, Otto, Jr., to Massey-Ferguson Services N.V.: Electronic tractor control. 4,715,012, 12-22-87, Cl. 364-900.000.

Mueller, Otward M., to General Electric Company: Push-pull radio-frequency power splitter/combiner apparatus. 4,647,868, 3-3-87, Cl. 330-286.000.

Mueller, Otward M.: *See*—
Edelstein, William A.; Schenck, John F.; Mueller, Otward M.; and Hayes, Cecil E., 4,680,548, Cl. 324-318.000.

Mueller, Peter: Adjusting mechanism for variable pitch watercraft propellers. 4,648,847, 3-10-87, Cl. 440-50.000.

Mueller, Peter R.; Brown, Alan S.; Tolkoff, Marc J.; and Crawford, Frank B., to Medi-Tech, Incorporated: Percutaneous fixation of hollow organs. 4,705,040, 11-10-87, Cl. 128-334.00R.

Mueller, Reiner: *See*—
Grosse, Joachim; Hess, Ruediger; Kuhl, Wilfried; and Mueller, Reiner, 4,695,687, Cl. 200-144.00B.

Mueller, Richard: *See*—
Ziegler, Walter; Dietsche, Wolfram; Weiss, Stefan; Mueller, Richard; Hettche, Albert; Glaser, Klaus; and Vamvakaris, Christos, 4,693,909, Cl. 427-156.000.

Mueller, Richard A.; and Partis, Richard A., to G. D. Searle & Co.: Treating elastin degradation with 1-(alkenoylbazacycloalkyl carboxylic acids and derivatives. 4,649,147, 3-10-87, Cl. 514-315.000.

Mueller, Richard A.; Partis, Richard A.; and Deason, James R., to G. D. Searle & Co.: Acylaminoalkylpyridines ad use in treatment of inflammation and allergy reactions. 4,663,333, 5-5-87, Cl. 514-346.000.

Mueller, Richard A., to G. D. Searle & Co.: 8-chlorodibenz[b,f][1,4]oxazepine-10(11H)-carboxylic acid, 2-[(phenylthio)alkanoyl]hydrazides. 4,681,939, 7-21-87, Cl. 540-547.000.

Mueller, Richard A.; and Laughry, David L., to Cities Service Oil and Gas Corporation: Apparatus and process for selectively expanding to join one tube into another tube. 4,685,191, 8-11-87, Cl. 29-523.000.

Mueller, Richard A.; and Partis, Richard A., to G. D. Searle & Co.: Protease inhibitors. 4,692,552, 9-8-87, Cl. 562-475.000.

Mueller, Richard A., to G. D. Searle & Co.: 8-chlorodibenz[b,f][1,4]oxazepine-10(11H)-carboxylic acid, 2-[(phenylsulfinyl-, and phenylsulfonyl)alkanoyl]hydrazides. 4,704,386, 11-3-87, Cl. 514-211.000.

Mueller, Richard A.; Partis, Richard A.; and Deason, James R., to G. D. Searle & Co.: Phenolic thioethers as inhibitors of 5-lipoxygenase. 4,711,903, 12-8-87, Cl. 514-381.000.

Mueller, Richard A.: *See*—
Partis, Richard A.; and Mueller, Richard A., 4,649,157, Cl. 514-545.000.

Mueller, Robert, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft: Differential gear. 4,644,823, 2-24-87, Cl. 74-710.500.

Mueller, Robert, to Dr. Ing. H.c.F. Porsche Aktiengesellschaft: Transmission system with lamella coupling for all wheel drive vehicle. 4,656,889, 4-14-87, Cl. 74-718.000.

Mueller, Robert, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft: Limited slip differential system for a motor vehicle with all-wheel drive. 4,691,593, 9-8-87, Cl. 74-714.000.

Mueller, Robert, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft: Transmission system with intermediate differential for all-wheel drive vehicle. 4,714,129, 12-22-87, Cl. 180-248.000.

Mueller, Roman, to Gebrueder Buehler AG: Apparatus for cleaning grits. 4,636,305, 1-13-87, Cl. 209-312.000.

Mueller, Roman: Apparatus and method for separating heavy material, more particularly stones or the like, from cereals and other bulk materials. 4,652,362, 3-24-87, Cl. 209-44.200.

Mueller, Roman, to Gebruder Buhler AG: Process and an apparatus for dressing seed. 4,657,773, 4-14-87, Cl. 427-4.000.

Mueller, Rudolf: *See*—
Matschinsky, Wolfgang; Sautter, Wolfgang; Strasser, Ludwig; and Mueller, Rudolf, 4,671,532, Cl. 280-701.000.
Sautter, Wolfgang; Strasser, Ludwig; and Mueller, Rudolf, 4,671,531, Cl. 280-690.000.

Mueller, Sieghard; Braun, Hermann; Dumschat, Helmut; and Trautwein, Hans-Juergen, to L. Schuler GmbH: Gripping devices in idling stage areas of a transfer press. 4,680,954, 7-21-87, Cl. 72-405.000.

Mueller, Sieghard: *See*—
Braun, Hermann; Dumschat, Helmut; Strommer, Kurt; and Mueller, Sieghard, 4,641,515, Cl. 72-405.000.

Mueller-Starke, Hans: *See*—
Auel, Theodor; Mueller-Starke, Hans; and Stoffel, Erwin, 4,704,211, Cl. 252-1.000.

Mueller, Stefan: *See*—
Schneider, Bernd; and Mueller, Stefan, 4,654,764, Cl. 29-705.000.

Mueller-Storz, Hans-Friedrich; and Bock, Erich: Open-end rotor spinning apparatus. 4,633,664, 1-6-87, Cl. 57-406.000.

Mueller, Teresa L.; and Mueller, Michael W.: Weed extracting tool. 4,715,634, 12-29-87, Cl. 294-50.500.

Mueller, Theodore V.: Auxiliary door latch. 4,694,413, 10-13-87, Cl. 292-67.000.

Mueller, Theodore V.: Auxiliary door latch for children's safety. 4,712,816, 12-15-87, Cl. 292-253.000.

Mueller, Walter B., to W. R. Grace & Co., Cryovac Div.: Flexible medical solution pouches. 4,643,926, 2-17-87, Cl. 428-35.000.

Mueller, Walter B.; and Schirmer, Henry G., to W. R. Grace & Co., Cryovac Div.: High oxygen barrier composite film. 4,684,573, 8-4-87, Cl. 428-349.000.

Mueller, Walter B.: *See*—
Ferguson, Daniel J.; Schirmer, Henry G.; and Mueller, Walter B., 4,640,856, Cl. 428-36.000.

Mueller, Wilhelm; Overath, Friedhelm; and Weyer, Michael, to Georg Fischer Aktiengesellschaft: Flange connection for fiber-reinforced plastic pipe pieces. 4,702,498, 10-27-87, Cl. 285-55.000.

Mueller, William H., to UOP Inc.: Increased glucose levels in starch saccharification using immobilized amyloglucosidase. 4,681,845, 7-21-87, Cl. 435-96.000.

Mueller, Wolfgang: *See*—
Altendorfer, Alois; Dotzauer, Ewald; and Mueller, Wolfgang, 4,638,123, Cl. 379-229.000.

Mueller, Wolfgang F., to International Business Machines Corporation: Microweld apparatus with an improved electrode tip design and tip support. 4,697,058, 9-29-87, Cl. 219-56.210.

Mueller, Wolfgang H. E.: *See*—
Moeller, Eckhard; Mueller, Wolfgang H. E.; and Hausen, Manfred Z., 4,714,784, Cl. 568-492.000.

Muellers, Bernardo P.: *See*—
Horst, Hans; Horst, Werner S.; and Muellers, Bernardo P., 4,665,969, Cl. 164-439.000.

Muelling, Duane D.; Willett, Ronald J.; and Nimmo, Philip E., to General Motors Corporation: Camera mount for motor vehicle. 4,645,320, 2-24-87, Cl. 354-81.000.

Muench, Albert; and Schwarz, Gerhard, to Brown, Boveri & Cie AG: Zener barrier. 4,647,141, 3-3-87, Cl. 339-198.0GA.

Muench, George J.: *See*—
Crane, Jacob; Muench, George J.; Saleh, Yousef; and Lin, Lifun, 4,657,583, Cl. 75-0.5AA.
Crane, Jacob; Muench, George J.; Saleh, Yousef; and Lin, Lifun, 4,698,140, Cl. 204-146.000.

Muench, Heinz-Dieter: *See*—
Meusel, Otto; Seidel, Siegfried; Muench, Heinz-Dieter; and Deinhardt, Guenther, 4,672,511, Cl. 361-415.000.

Mueninghoff, Jane C.: *See*—
Harris, Eugene G.; and Mueninghoff, Jane C., 4,661,285, Cl. 252-522.00R.

Muenkel, Raymond L.; and Keller, Raymond E., to RCA Corporation: CRT internal magnetic shield contact spring. 4,670,686, 6-2-87, Cl. 313-402.000.

Muenzebrock, Anton: *See*—
Hasselmann, Heinz; Muenzebrock, Anton; and Pfannkuche, Heinz, 4,700,024, Cl. 191-45.00A.

Muenzner, Wulf: *See*—
Balz, Werner; Muenzner, Wulf; Schomann, Klaus D.; Berger, Heinz; and Roos, Roland, 4,712,148, Cl. 360-132.000.
Roos, Roland; Dieter Schomann, Klaus; and Muenzner, Wulf, 4,667,261, Cl. 360-130.210.

Mues, Peter; Buysch, Hans-Josef; Brassat, Bert; and Heine, Heinrich, to Bayer Aktiengesellschaft. Process for the production of duromeric aliphatic polycarbonates. 4,694,065, 9-15-87, Cl. 528-371.000.

Mues, Peter; Kerimis, Dimitrios; Muller, Hanns P.; and Buysch, Hans-Josef, to Bayer Aktiengesellschaft. Process for the preparation of thermosetting aliphatic polycarbonate with quaternary salt catalyst. 4,707,539, 11-17-87, Cl. 528-371.000.

Mues, Volker: *See*—
Forster, Heinz; Hofer, Wolfgang; Mues, Volker; Eue, Ludwig; and Schmidt, Robert R., 4,645,525, Cl. 71-88.000.

Muething, Gerald F., Jr., to Nicolet Instrument Corporation. Method for measuring skew or phase difference in electronic systems. 4,703,448, 10-27-87, Cl. 364-481.000.

Muething, Kevin A., to AT&T Technologies, Inc. CVD apparatus. 4,651,673, 3-24-87, Cl. 118-725.000.

Muething, Kevin A., to AT&T Technologies, Inc. Method and apparatus for automatically measuring semiconductor etching process parameters. 4,660,979, 4-28-87, Cl. 356-357.000.

Muff, Wolf: *See*—
Block, Ulrich; Muff, Wolf; Nixdorf, Klaus; and Wagner, Joachim, 4,675,420, Cl. 549-248.000.

Muffett, Dorothy J.: *See*—
Hettiarachchy, Navagnana S.; Muffett, Dorothy J.; and Wedral, Elaine R., 4,699,664, Cl. 106-238.00Q.

Mughannam, Adil A.: *See*—
Creed, Sherman H.; Thompson, Wesley G.; Mughannam, Adil A.; and Beverly, Robert G., 4,646,629, Cl. 99-468.000.

Mugica, Marcos O. Production procedure of brake shoes. 4,688,414, 8-25-87, Cl. 72-167.000.

Mugishima, Hirobumi: *See*—
Hayashi, Torahiko; Mugishima, Hirobumi; and Morikawa, Michio, 4,703,679, Cl. 83-102.000.

Mugnai, Giorgio, to W. R. Grace & Co., Cryovac Div. Form-fill-seal machine. 4,671,047, 6-9-87, Cl. 53-550.000.

Mugrauer, Hubert; Puritscher, Ernst; and Wittmann, Franz, to Siemens Aktiengesellschaft. Mechanism for the drive of actuation elements movable in sealed regions of non-mechanical printer or copier means. 4,711,564, 12-8-87, Cl. 355-30.000.

Muguruma, Taku; and Ohuchi, Seiji, to Mazda Motor Corporation. Shift indicator system for vehicle. 4,703,304, 10-27-87, Cl. 340-52.00R.

Muhich, John S.; and Thornley, Joseph S., to International Business Machines Corporation. Cursor circuit for a dual port memory. 4,706,074, 11-10-87, Cl. 340-709.000.

Muhl, Artur: *See*—
Kohler, Wolfgang; Hommes, Hans-Jurgen; and Muhl, Artur, 4,664,500, Cl. 355-3.0TE.

Muhl, Bradley G. Beverage display shelving. 4,665,837, 5-19-87, Cl. 108-108.000.

Muhlbach, Heinz: *See*—
Reutler, Harald; Loser, Wolfgang; Muhlbach, Heinz; Richter, Gerhard; and Stephani, Gunter, 4,660,622, Cl. 164-463.000.

Muhlbauer, Ernst. Method of determining materials of suitable colours for a tooth repair layer of prosthesis facet, and a sample set for applying this method. 4,715,813, 12-29-87, Cl. 433-26.000.

Muhlbauer, Johann: *See*—
Riegler, Ernst; Zajicek, Ernst; and Muhlbauer, Johann, 4,643,404, Cl. 266-240.000.

Muhle, Erwin; and Rahmig, Hermann, to J. M. Voith GmbH. Stone roller for paper making machines. 4,642,862, 2-17-87, Cl. 29-132.000.

Muhle, Manfred. Multipart thermally insulated metal profile for facade structures or roof structures. 4,640,072, 2-3-87, Cl. 52-403.000.

Muhle, Manfred. Method for manufacturing thermo-insulated compound profiles for windows, doors and facades. 4,646,416, 3-3-87, Cl. 29-509.000.

Muhle, Manfred. Method for manufacturing thermo-insulated compound profiles for windows, doors and facades. 4,697,337, 10-6-87, Cl. 29-796.000.

Muhle, Michael E.: *See*—
Agapiou, Agapios K.; Muhle, Michael E.; and Kurtzman, Myron B., 4,701,506, Cl. 526-128.000.

Muhlemann, Daniele: *See*—
Rutsch, Hubert; Golay, Gilbert; and Muhlemann, Daniele, 4,633,858, Cl. 128-59.000.

Muhlfeld, Hans P., Jr.: *See*—
Chang, Yi-Hua E.; Gruodis, Algirdas J.; Muhlfeld, Hans P., Jr.; Rodriguez, Charles W.; and Shulman, Mark L., 4,639,919, Cl. 371-27.000.

Muhlfelder, Ludwig: *See*—
Hubert, Carl H.; Miller, Paul A.; Furia, Thomas J.; Muhlfelder, Ludwig; Schmidt, George E., Jr.; and Swale, James F., 4,657,210, Cl. 244-158.00R.

Muhlhahn, Dieter; Marsella, Gino; Detzner, Friedhelm; Simons, Dieter; Schafer, Horst-Dieter; and Haarkotter, Hermann, to Ringfeder GmbH. Synthetic-resin compression spring. 4,660,811, 4-28-87, Cl. 267-141.100.

Muhlhaus, Ludwig: *See*—
Schwarz, Hans-Dieter; Pietzarka, Friedrich W.; Lichtenthaler, Werner; and Muhlhaus, Ludwig, 4,681,157, Cl. 165-145.000.

Muhlhofer, Rudolf: *See*—
Mayer, Hans; Deubzer, Bernward; Iretzberger, Petra; Muhlhofer, Rudolf; and Wilhelm, Hermann, 4,661,551, Cl. 524-379.000.
Mayer, Hans; Muhlhofer, Rudolf; Deubzer, Bernward; and Mayerhofer, Walter, 4,692,474, Cl. 521-88.000.

Mühlich, Albert: *See*—
Ross, Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, Karl-Friedrich; Muhlich, Albert; Rau, Karlheinz; Ruffing, Wolfgang; Simmat, Fritz; Steinkohl, Anton; and Takke, Ralf, 4,676,814, Cl. 65-3.120.

Muhlich, Werner: *See*—
Gloser, Wolfgang; Kuhn, Siegfried; Rader, Robert; Setzer, Friedhelm; Kienhofer, Hermann; and Muhlich, Werner, 4,662,253, Cl. 82-32.000.

Muhlnickel, Donald L., Jr., to Graves Spray Supply Company. Hydraulic valve for spray gun. 4,635,852, 1-13-87, Cl. 239-414.000.

Muhoray, Cornel: *See*—
Binzen, Willard; Insana, Samuel P.; Manning, Edward T., Jr.; and Muhoray, Cornel, 4,655,401, Cl. 241-69.000.

Muhr, Karl-Heinz. Shear for different structural shapes. 4,638,703, 1-27-87, Cl. 83-518.000.

Muhr, Richard; and Schroder, Werner, to Muhr und Bender. Profile-bar cutter with angled blade movement. 4,685,365, 8-11-87, Cl. 83-198.000.

Muhr und Bender: *See*—
Muhr, Richard; and Schroder, Werner, 4,685,365, Cl. 83-198.000.
Schink, Karl, 4,646,604, Cl. 83-698.000.

Mui, Paul Y. H.; and Tso, Rosa Y. M. Collapsible light wand. 4,697,228, 9-29-87, Cl. 362-352.000.

Mui, Shou Y., to Signatron, Inc. Modem for use in multipath communication systems. 4,694,467, 9-15-87, Cl. 375-1.000.

Muijs, Herman M.; and Keijzer, Paulus P. M., to Shell Internationale Research Maatschappij B.V. Steam foam process. 4,693,311, 9-15-87, Cl. 166-272.000.

Muir, James F.: *See*—
Lee, David O.; Montoya, Paul C.; Muir, James F.; and Wayland, J. Robert, Jr., 4,658,208, Cl. 324-61.00R.

Muir, Malcolm D.: *See*—
McAlevey, Richard J.; Muir, Malcolm D.; and van der Laan, Johan S., 4,691,345, Cl. 379-158.000.

Muir, Ronald J., to Witco Chemical Corporation. Succinic anhydride promoter overbased magnesium sulfonates and oils containing same. 4,647,387, 3-3-87, Cl. 252-25.000.

Muka, Edward, to Eastman Kodak Company. Laser printer for printing a plurality of output-images sizes. 4,651,169, 3-17-87, Cl. 346-108.000.

Muka, Edward; and Woo, Nea Yea, to Eastman Kodak Company. Laser light beam noise reducing apparatus. 4,672,192, 6-9-87, Cl. 250-205.000.

Muka, Edward: *See*—
Chandler, Jasper S.; Kessler, David; and Muka, Edward, 4,651,170, Cl. 346-108.000.

Mukaemachi, Takuji; Shirasu, Hirotoshi; and Suzuki, Taihei, to Hitachi, Ltd. Ring back tone transmission system. 4,663,759, 5-5-87, Cl. 370-110.200.

Mukai, Hirokatsu: *See*—
Hori, Makoto; Nomura, Etsuji; Niwa, Hitoshi; Mukai, Hirokatsu; and Tanaka, Toshiaki, 4,667,644, Cl. 123-549.000.
Hori, Makoto; Nagaya, Toshiatsu; Mukai, Hirokatsu; Niwa, Hitoshi; and Miwa, Naoto, 4,716,279, Cl. 219-541.000.
Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoto; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, 4,685,537, Cl. 123-549.000.

Mukai, Hiromu; Yamaki, Toshio; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, to Minolta Camera Kabushiki Kaisha. Flash photographing apparatus. 4,705,382, 11-10-87, Cl. 354-412.000.

Mukai, Hiromu: *See*—
Nakai, Masaaki; Izumi, Shuji; Fujino, Akihiko; Taniguchi, Nobuyuki; Yamaki, Toshio; and Mukai, Hiromu, 4,690,536, Cl. 354-402.000.
Yamaki, Toshio; Mukai, Hiromu; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,693,581, Cl. 354-400.000.

Mukai, Hiroshi: *See*—
Shionozaki, Yoshio; Mukai, Hiroshi; Obikawa, Tsuyoshi; and Yamada, Shuhei, 4,684,220, Cl. 350-350.00R.

Mukai, Kazuo; Honjoh, Akira; and Nakata, Shuji, to Fuji Photo Film Co., Ltd. Burnishing method and apparatus for magnetic disk. 4,656,790, 4-14-87, Cl. 51-141.000.

Mukai, Kiichiro: *See*—
Nishioka, Yasushiro; Homma, Noriyuki; Sakuma, Noriyuki; and Mukai, Kiichiro, 4,636,833, Cl. 357-71.000.

Mukai, Kiyotaka, to Sanyo Electric Co., Ltd. Electrical apparatus connected with a battery charger system. 4,639,656, 1-27-87, Cl. 320-22.000.

Mukai, Masataka: *See*—
Tsukamura, Yoshihiro; Morimoto, Toshiro; Kubo, Matayasu; and Mukai, Masataka, 4,660,189, Cl. 369-32.000.

Mukai, Masato; and Komatsu, Koichi, to Honda Giken Kogyo Kabushiki Kaisha. Connecting rod of reciprocating motion system and method for producing the same. 4,693,139, 9-15-87, Cl. 74-579.00E.

Mukai, Masatoshi: *See*—
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,666,380, Cl. 418-55.000.
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi, 4,696,084, Cl. 29-156.40R.

Mukai, Nobuhiro: *See*—
Sasaki, Isao; and Mukai, Nobuhiro, 4,678,819, Cl. 523-171.000.

Mukai, Ryouhei: *See*—
Imai, Tomoyasu; Mukai, Ryouhei; and Tsutsui, Toshihiro, 4,662,120, Cl. 51-101.00R.

Mukai, Seiichi: *See*—
Hasuo, Masayoshi; Mukai, Seiichi; Urabe, Hiroshi; Yoshida, Seiji; and Nukui, Masahiro, 4,680,374, Cl. 528-204.000.

Mukai, Tadashi: *See*—
Tsushima, Noburu; Fuse, Masashi; Mimori, Teruo; Sasaki, Toshio; and Mukai, Tadashi, 4,673,878, Cl. 324-226.000.

Mukai, Takashi: *See*—
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, 4,637,885, Cl. 252-32.500.
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; Iwado, Shuichi; and Sakaguchi, Yoshihiro, 4,663,061, Cl. 252-32.500.
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, 4,664,823, Cl. 252-34.000.
Nagamori, Hiroyuki; Mukai, Takashi; Tsushima, Rikio; Kuwamoto, Hiroshi; Iwado, Shuichi; and Sharyo, Takeru, 4,650,595, Cl. 252-32.500.

Mukai, Tatsuo: *See*—
Ogihayashi, Shigeaki; Yamada, Mamoru; Mukai, Tatsuo; Tezuka, Makoto; and Hirai, Masazumi, 4,687,047, Cl. 164-476.000.

Mukai, Teruo: *See*—
Sasaki, Noboru; Iwata, Yasuji; and Mukai, Teruo, 4,713,956, Cl. 72-137.000.

Mukai, Toshiharu; and Tanaka, Shinichi, to Matsushita Electric Industrial Co., Ltd. Tracking control system for an information reproducing apparatus. 4,688,202, 8-18-87, Cl. 369-44.000.

Mukai, Yasuo; and Shimizu, Masanobu, to Victor Company of Japan, Ltd. Magnetic recording material. 4,643,947, 2-17-87, Cl. 428-413.000.

Mukai, Yasuo; Takasawa, Yosuke; Shimizu, Masanobu; and Shinohara, Shunya, to Victor Company of Japan, Ltd. Magnetic recording medium comprising a specific type of copolymer binder. 4,689,269, 8-25-87, Cl. 428-413.000.

Mukai, Yasuteru: *See*—
Otake, Katsumoto; Miyai, Masahiko; Mukai, Yasuteru; and Okouchi, Isamu, 4,692,253, Cl. 210-791.000.

Mukai, Yuji: *See*—
Yoshida, Yuji; Suzuki, Shigeo; Nakatani, Kazuo; Mukai, Yuji; Nakazawa, Akira; and Imoto, Takumi, 4,679,403, Cl. 62-114.000.

Mukaida, Yoshito: *See*—
Hashimoto, Hiroshi; Okita, Tsutomu; and Mukaida, Yoshito, 4,707,380, Cl. 427-40.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,693,927, Cl. 428-216.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,711,809, Cl. 428-336.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,713,287, Cl. 428-336.000.
Okita, Tsutomu; Hashimoto, Hiroshi; and Mukaida, Yoshito, 4,664,965, Cl. 428-143.000.
Okita, Tsutomu; Tsuji, Nobuo; and Mukaida, Yoshito, 4,672,002, Cl. 428-425.900.
Okita, Tsutomu; Tsuji, Nobuo; Hashimoto, Hiroshi; and Mukaida, Yoshito, 4,690,870, Cl. 428-425.900.
Okita, Tsutomu; Tsuji, Nobuo; and Mukaida, Yoshito, 4,699,844, Cl. 428-425.900.
Yamada, Yasuyuki; and Mukaida, Yoshito, 4,664,979, Cl. 428-413.000.
Yanagihara, Kenji; Kimura, Mituo; Niinomi, Masahiro; Nishikawa, Yasuo; and Mukaida, Yoshito, 4,693,799, Cl. 204-165.000.

Mukainakano, Shinichi: *See*—
Ikeda, Hirotane; Hattori, Tadashi; Ohta, Minoru; and Mukainakano, Shinichi, 4,714,047, Cl. 118-724.000.

Mukamal, Harold: *See*—
Ashlock, Lysander T.; Mukamal, Harold; and White, William H., 4,702,773, Cl. 106-287.120.

Mukasa, Kohsuke: *See*—
Murata, Seiichiro; Tateishi, Masaru; Hayakawa, Kohji; Sakamoto, Takeshi; and Mukasa, Kohsuke, 4,674,430, Cl. 114-355.000.

Mukasa, Koichi; Hatanai, Takashi; Nakashima, Keishi; and Onishi, Kazumasa, to Alps Electric Co., Ltd. Composition for sliding contact part of recording/reproducing apparatus. 4,638,387, 1-20-87, Cl. 360-122.000.

Mukasa, Koichi: *See*—
Hatanai, Takashi; Nakashima, Keishi; and Mukasa, Koichi, 4,638,391, Cl. 360-125.000.
Hatanai, Takashi; Mukasa, Koichi; Nakashima, Keishi; and Sato, Hiroshi, 4,657,812, Cl. 428-328.000.
Shimada, Yutaka; Hatanai, Takashi; Mukasa, Koichi; and Nakashima, Keishi, 4,641,213, Cl. 360-125.000.

Mukawa, Naoki: *See*—
Kuroda, Hideo; Mukawa, Naoki; Hiraoka, Makoto; Matsuda, Kiichi; Nishiwaki, Mitsuo; and Tsugane, Shuzo, 4,677,480, Cl. 358-136.000.
Nishiwaki, Mitsuo; Amano, Tooru; Yasuda, Tooru; Okubo, Sakae; and Mukawa, Naoki, 4,688,233, Cl. 375-58.000.

Mukerji, Jishnu, to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Parallel call processing system and method. 4,654,845, 3-31-87, Cl. 370-58.000.

Mukherjee, Jyoti: *See*—
Wolf, Heinz K.; and Mukherjee, Jyoti, 4,715,102, Cl. 29-27.00R.

Mukherjee, Jyoti P.: *See*—
Furmanek, Robert A.; Mukherjee, Jyoti P.; and Lanese, Pasquale J., 4,684,266, Cl. 384-37.000.
Furmanek, Robert A.; Mukherjee, Jyoti P.; and Lanese, Pasquale J., 4,706,352, Cl. 29-149.50R.

Mukherjee, Satyen; and Chang, Thomas, to Exel Microelectronics, Inc. Single transistor electrically programmable memory device and method. 4,698,787, 10-6-87, Cl. 365-185.000.

Mukhtar, Saad; and Husain, Syed A., to Automated Semiconductor, Inc. Universal selective plating head. 4,696,727, 9-29-87, Cl. 204-206.000.

Mukli, Glenn A.; Frew, Paul C.; and Mills, David R., to Motorola, Inc. Intrinsically safe battery circuit. 4,638,396, 1-20-87, Cl. 361-101.000.

Mukoh, Akio: *See*—
Era, Susumu; Yokokura, Hisao; Iwasaki, Kishiro; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, 4,653,866, Cl. 350-350.00S.
Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.
Isogai, Masato; Hattori, Shintaroo; Iwasaki, Kishiro; Mukoh, Akio; Umeda, Takao; and Nagae, Yoshiharu, 4,634,226, Cl. 350-332.000.
Iwasaki, Kishiro; Era, Susumu; Yokokura, Hisao; Nakata, Tadao; and Mukoh, Akio, 4,634,228, Cl. 350-341.000.
Yokokura, Hisao; Era, Susumu; Abe, Hidetoshi; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, 4,645,305, Cl. 350-351.000.

Mukohjima, Hitoshi; and Hiramatsu, Akira, to Canon Kabushiki Kaisha. Vibration wave motor. 4,649,311, 3-10-87, Cl. 310-323.000.

Mukohjima, Hitoshi: *See*—
Hiramatsu, Akira; and Mukohjima, Hitoshi, 4,645,964, Cl. 310-323.000.
Hiramatsu, Akira; Mukohjima, Hitoshi; Kaneda, Naoya; Okuno, Takuo; Seki, Hiroyuki; Tsukimoto, Takayuki; Izukawa, Kazuhiro; and Okumura, Ichiro, 4,692,651, Cl. 310-323.000.
Okumura, Ichiro; Tsukimoto, Takayuki; Okuno, Takuo; Izukawa, Kazuhiro; Seki, Hiroyuki; Mukohjima, Hitoshi; Kaneda, Naoya; and Hiramatsu, Akira, 4,692,650, Cl. 310-323.000.

Mukoujima, Hitoshi; Hiramatsu, Akira; Murakami, Hiroyasu; and Katsuma, Makoto, to Canon Kabushiki Kaisha. Mount for surface wave motor. 4,634,915, 1-6-87, Cl. 310-323.000.

Mukoyama, Masumi, to Seikosha Co., Ltd. Table clock. 4,666,312, 5-19-87, Cl. 368-179.000.

Mukoyama, Masumi, to Seikosha Co., Ltd. Table clock. 4,707,144, 11-17-87, Cl. 368-165.000.

Mukuda, Nobuo: *See*—
Mizuguchi, Hideki; Yamaguchi, Haruo; Hanada, Seigo; and Mukuda, Nobuo, 4,679,461, Cl. 74-665.0GA.

Mukumoto, Kyoji: *See*—
Kuwabara, Tadashi; Matsuda, Yasumasa; Kasahara, Masatoshi; Mukumoto, Kyoji; and Tokunaga, Kazuyoshi, 4,672,398, Cl. 346-140.00R.

Mukunoki, Yasuo; Yokoyama, Shigeki; Kawasaki, Hiroshi; Nemori, Ryoichi; and Takeuchi, Tetsuo, to Fuji Photo Film Co., Ltd. Silver halide photographic light-sensitive material. 4,649,102, 3-10-87, Cl. 430-527.000.

Mukunoki, Yasuo: *See*—
Aono, Toshiaki; Sato, Kozo; Mukunoki, Yasuo; and Nakamura, Koichi, 4,665,005, Cl. 430-203.000.

Mulac, Anthony J.: *See*—
Eisenhawer, Stephen; Mulac, Anthony J.; Donaldson, A. Burl; and Fox, Ronald L., 4,648,835, Cl. 431-4.000.

Mulcahy, Harry W.; and Karbowniczek, Stanley, to AMSTED Industries Incorporated. Elastomeric bearing pad with unlike threaded fasteners. 4,674,412, 6-23-87, Cl. 105-224.100.

Mulchin, William L. Permanent/retrievable ureteral catheter. 4,671,795, 6-9-87, Cl. 604-281.000.

Mulder, Cornelis; and Wulms, Henricus E. J., to U.S. Philips Corporation. Integrated circuit. 4,716,314, 12-29-87, Cl. 307-477.000.

Mulder, Douglas C., to Nordson Corporation. Portable powder spray booth. 4,662,309, 5-5-87, Cl. 118-312.000.

Mulder, Douglas C., to Nordson Corporation. Sieve for powder. 4,710,286, 12-1-87, Cl. 209-250.000.

Mulder, Douglas C., to Nordson Corporation. Powder spray gun. 4,715,535, 12-29-87, Cl. 239-1.000.

Mulder, James R.; and Snider, Joel M., to Whirlpool Corporation. Centrifugal dispenser for automatic washer with high speed spin. 4,656,844, 4-14-87, Cl. 68-17.00A.

Mulder, James R.: *See*—
Staun, Paul R.; and Mulder, James R., 4,715,402, Cl. 137-355.170.

Mulder, Richard. Gauge for measuring the level or the conductance of a liquid present between two electrodes. 4,674,329, 6-23-87, Cl. 73-304.00C.

Mulders, Johannes A., to Borg-Warner Corporation. Hydrostatic bearing for pumps and the like. 4,684,318, 8-4-87, Cl. 415-113.000.

Mulflur, W. Joseph; and Munson, James R., to Reagent Chemical & Research Company. Treatment of cooking oils and fats. 4,681,768, 7-21-87, Cl. 426-417.000.
Mulford, Cass E. Vented exterior building wall and roof structures. 4,658,552, 4-21-87, Cl. 52-90.000.
Mulford, Cass E. Building wall construction. 4,658,557, 4-21-87, Cl. 52-407.000.
Mulford, Luis C.: *See*—
Lancaster, Gerald M.; and Mulford, Luis C., 4,671,992, Cl. 428-316.600.
Mulhaupt, Rolf; Renner, Alfred; and Lauterbach, Horst, to Ciba-Geigy Corporation. Branched polyesters. 4,713,428, 12-15-87, Cl. 525-523.000.
Mulhaupt, Rolf: *See*—
Klabunde, Ulrich; and Mulhaupt, Rolf, 4,650,778, Cl. 502-8.000.
Mulhauser, Michel: *See*—
Chabardes, Pierre; and Mulhauser, Michel, 4,636,570, Cl. 549-408.000.
Chabardes, Pierre; and Mulhauser, Michel, 4,665,244, Cl. 570-189.000.
Mulholland, D. Lindsay; and Sheppard, John D., to Ontario Research Foundation. Separation of volatiles from aqueous solutions by gas stripping. 4,703,007, 10-27-87, Cl. 435-161.000.
Mulholland, John H.: *See*—
Foster, John D., 4,704,949, Cl. 92-160.000.
Mulholland, Wayne A.: *See*—
Quinn, Daniel J.; Mulholland, Wayne A.; Bond, Robert H.; Olla, Michael A.; Cupples, Jerry S.; Tsitovsky, Ilya L.; Mozdzen, Barbara R.; Held, Charles F.; Wilson, Linda S.; and Nguyen, Yen T., 4,685,998, Cl. 156-633.000.
Mullane, John F., to American Home Products Corporation. Etodolac for treatment of gout. 4,663,345, 5-5-87, Cl. 514-454.000.
Mullane, John F.: *See*—
Ryder, Steven W.; Shand, David G.; and Mullane, John F., 4,701,467, Cl. 514-524.000.
Ryder, Steven W.; Shand, David G.; and Mullane, John F., 4,716,177, Cl. 514-524.000.
Mullane, William E.; and Lund, David, to Taylor-Winfield Corporation, The. Battery intercell connection by induction heating. 4,642,442, 2-10-87, Cl. 219-10.410.
Mullane, William E.; and Lund, David, to Taylor-Winfield Corporation, The. Welding intercell connections by induction heating. 4,661,668, 4-28-87, Cl. 219-10.410.
Mullani, Nizar A., to Clayton Foundation for Research. Positron emission tomography camera. 4,642,464, 2-10-87, Cl. 250-363.00S.
Mullard, Bruce A.: *See*—
Lech, Thaddeus, Jr.; and Mullard, Bruce A., 4,679,679, Cl. 192-106.200.
Mullen, C. Thomas: *See*—
Leeper, Lloyd C.; and Mullen, C. Thomas, 4,657,466, Cl. 414-416.000.
Mullen, George B.: *See*—
Georgiev, Vassil S.; Mullen, George B.; and Swift, Patricia A., 4,649,222, Cl. 564-459.000.
Georgiev, Vassil S.; and Mullen, George B., 4,683,311, Cl. 548-240.000.
Georgiev, Vassil S.; and Mullen, George B., 4,691,051, Cl. 562-443.000.
Georgiev, Vassil S.; and Mullen, George B., 4,692,515, Cl. 540-203.000.
Georgiev, Vassil S.; and Mullen, George B., 4,705,891, Cl. 562-491.000.
Mullen, Jasper L.: *See*—
Lashmore, David S.; Mullen, Jasper L.; Johnson, Christian E.; and Polvani, Robert S., 4,699,000, Cl. 73-81.000.
Mullen, John L.: *See*—
Cannon, Stuart R.; Brazenor, William J.; Kneen, Peter W.; and Mullen, John L., 4,677,999, Cl. 135-117.000.
Mullen, Michael J., to Northwestern Steel and Wire Company. Shroud for furnace electrode. 4,641,320, 2-3-87, Cl. 373-96.000.
Mullen, Robert: *See*—
Carter, Leewood C.; Neary, Robin P.; and Mullen, Robert, 4,636,185, Cl. 493-127.000.
Mullen, Victor J.: *See*—
Finke, Ronald J.; Mullen, Victor J.; Williams, Danny R.; Morris, Robert J.; and Tucker, Charles E., 4,661,662, Cl. 200-48.00R.
Mullenix, Kenneth E.: *See*—
Troy, Seymour; and Mullenix, Kenneth E., 4,689,742, Cl. 364-412.000.
Troy, Seymour L.; and Mullenix, Kenneth E., 4,637,634, Cl. 283-98.000.
Muller, Adam; and Goller, Ernst, to H. Stoll GmbH & Co. Flat-bed knitting machine having a spool table provided with movable yarn spool holders. 4,679,413, 7-14-87, Cl. 66-125.00R.
Muller, Adam; and Goller, Ernst, to H. Stoll GmbH & Co. Flat-bed knitting machine having a spool table. 4,680,946, 7-21-87, Cl. 66-64.000.
Muller, Adam: *See*—
Goller, Ernst; Herman, Udo; Muller, Adam; and Walker, Fritz, 4,703,630, Cl. 66-64.000.
Goller, Ernst; Muller, Adam; and Hermann, Udo, 4,711,101, Cl. 66-64.000.
Muller, Albrecht; and Zimmermann, Wolfgang, to Schering Aktiengesellschaft; and Hoechst Aktiengesellschaft. Thermoplastically processable polyvinyl alcohol compositions, process for their preparation, and films and moldings prepared from them. 4,656,216, 4-7-87, Cl. 524-381.000.
Muller, Albrecht: *See*—
Becker, Klaus; and Muller, Albrecht, 4,654,810, Cl. 364-571.000.
Muller, Alexander, to General Electric Company. Apparatus and method for adjustably effecting the disposition of a magnet material element in a preselected position therefor. 4,644,640, 2-24-87, Cl. 29-596.000.
Muller, Alexander, to General Electric Company. Apparatus for assembling a rotatable assembly. 4,677,744, 7-7-87, Cl. 29-729.000.
Muller, Alexander: *See*—
Boyd, John H., Jr.; and Muller, Alexander, 4,636,936, Cl. 364-148.000.
Boyd, John H., Jr.; and Muller, Alexander, 4,642,536, Cl. 318-254.000.
Muller, Alfred; and Kohler-Pavlek, Johann, to Realverbund. Process of manufacturing a ski. 4,655,473, 4-7-87, Cl. 280-610.000.
Muller, Anneliese; Silvia Muller, Werner J. Muller, heirs: *See*—
Wehner, Wolfgang; Muller, Horst, deceased; and Schneider, Rainer, 4,642,322, Cl. 524-191.000.
Muller, Anton; Herdeg, Karl; Schinko, Hermann; Leyermann, Gustav; Kimmit, Richard; and Meyer, Frank, to Eisen- und Drahtwerk Erlau Aktiengesellschaft. Apparatus for lashing goods. 4,671,418, 6-9-87, Cl. 211-59.400.
Muller, Arno, to Pitney Bowes Inc. Postal meter base drive system. 4,658,722, 4-21-87, Cl. 101-110.000.
Muller, Arno, to Pitney Bowes Inc. Value selector security system. 4,702,164, 10-27-87, Cl. 101-91.000.
Muller-BBM GmbH: *See*—
Blickle, Karl; Fork, Werner; and Wunder, Hermann, 4,664,636, Cl. 440-52.000.
Muller, Beat, to Ciba-Geigy Corporation. Photosensitive elements containing polymer of imidylcompounds. 4,696,820, 9-29-87, Cl. 430-271.000.
Muller, Beat: *See*—
Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gotzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene ; Pachlatko, Johannes P.; Rempfler, Hermann; Schuler, Rolf; and Szczepanski, Henry, 4,715,883, Cl. 71-90.000.
Muller-Beckmann, Bernd: *See*—
Holck, Jens-Peter; Mertens, Alfred; Kampe, Wolfgang; Muller-Beckmann, Bernd; Sponer, Gisbert; and Strein, Klaus, 4,666,923, Cl. 514-338.000.
Mertens, Alfred; Holck, Jens-Peter; Berger, Herbert; Muller-Beckmann, Bernd; Strein, Klaus; and Roesch, Egon, 4,695,567, Cl. 514-253.000.
Mertens, Alfred; Holck, Jens-Peter; Kampe, Wolfgang; Muller-Beckmann, Bernd; Strein, Klaus; and Schaumann, Wolfgang, 4,710,510, Cl. 514-394.000.
Muller, Bernard L.: *See*—
Schulte-Elte, Karl-Heinrich; Ohloff, Gunther; Muller, Bernard L.; and Giersch, Wolfgang K., 4,711,875, Cl. 512-1.000.
Muller, Charles B., to C. Muller & Associates, Inc. Protective dispensing assembly for ultrapure liquids. 4,641,362, 2-3-87, Cl. 383-115.000.
Muller, Claude, to Farco, S.A. Process for bonding an electric component to a block of connecting tags and a machine and tape for carrying out this process. 4,657,170, 4-14-87, Cl. 228-106.000.
Muller, Clifford H., III: *See*—
West, William P.; and Muller, Clifford H., III, 4,701,616, Cl. 250-251.000.
Muller, Dieter: *See*—
Schmitte, Franz-Josef; Muller, Dieter; and Groth, Rolf, 4,715,879, Cl. 65-60.200.
Muller, Dieter J.; and Wehmeyer, Heinrich, to Huels Aktiengesellschaft. Process for the production of 1,2,3-trichloropropane. 4,714,792, 12-22-87, Cl. 570-261.000.
Muller, Dieter J., to Huels Aktiengesellschaft. Process for the production of 3,3-dichloro-2-methylpropene. 4,716,255, 12-29-87, Cl. 570-216.000.
Muller, Dietmar; and Kremp, Jurgen, to Fraunhofer-Gesellschaft zur Forderung der angewandten Forschung e.V. Triplebasic propellant powder and process for the production thereof. 4,713,127, 12-15-87, Cl. 149-98.000.
Muller, Dietrich. Process and apparatus for obtaining raw materials from autumn foliage. 4,666,498, 5-19-87, Cl. 71-23.000.
Muller, Eberhard: *See*—
Hennecke, Udo; Mittelstadt, Norbert; and Muller, Eberhard, 4,662,086, Cl. 34-229.000.
Muller-Eberhard, Hans J.; and Vogel, Carl-Wilhelm E., to Scripps Clinic. Cytotoxic compositions. 4,661,347, 4-28-87, Cl. 424-85.000.
Muller, Eckart; and Beckmann, Rudolf, to Volkswagen Aktiengesellschaft. Method and device for the removal of solid components contained in the exhaust gases of internal combustion engines. 4,715,179, 12-29-87, Cl. 60-274.000.
Muller, Edgar: *See*—
Moll, Eberhard; Lardon, Marcel; and Muller, Edgar, 4,641,450, Cl. 42-76.020.
von der Heide, Johann; Korner, Ernst-Moritz; Muller, Edgar; and Muller, Rolf, 4,651,241, Cl. 360-97.000.
Muller, Eduard: *See*—
Gloor, Hans; and Muller, Eduard, 4,655,237, Cl. 137-13.000.
Muller, Erich; Ruhle, Gunter; and Stocker, Wilhelm, to GETRAG Getriebe-und Zahnradfabrik GmbH. Synchronizing mechanism for clutches. 4,641,734, 2-10-87, Cl. 192-53.00F.

Muller, Erich: *See*—
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Roch, Josef; Muller, Erich; Narr, Berthold; Nickl, Josef; Haarmann, Walter; and Weisenberger, Johannes M., 4,690,923, Cl. 514-222.000.
Roch, Josef; Heckel, Armin; Nickl, Josef; Muller, Erich; Narr, Berthold; Zimmermann, Rainer; and Weisenberger, Johannes, 4,714,698, Cl. 514-212.000.

Muller, Ernst, to Schips, Helmut. Electronic control device for industrial sewing machines. 4,703,432, 10-27-87, Cl. 364-470.000.

Muller, Erwin; and Ruhland, Alois, to Siemens Aktiengesellschaft. Electromagnetic relay. 4,670,727, 6-2-87, Cl. 335-274.000.

Muller, Erwin, to Siemens Aktiengesellschaft. Electromagnetic relay having an insulating cap and a method for manufacturing the insulating cap. 4,692,730, 9-8-87, Cl. 335-278.000.

Muller, Fernand; Wannborg, Nils A.; and Billen, Kurt, to Electrolux S.a.r.l. Apparatus for cooking and/or for heating of air. 4,641,629, 2-10-87, Cl. 126-6.000.

Muller, Francis: *See*—
Cleric, Jean-Frederic; and Muller, Francis, 4,639,090, Cl. 350-346.000.

Muller, Frank, to Robert Bosch GmbH. Pressure medium operated impact tool. 4,688,645, 8-25-87, Cl. 173-116.000.

Muller, Franz: *See*—
Ehringer, Friedrich J.; Muller, Franz; Simon, Herbert; and Sailer, Hubert, 4,685,343, Cl. 74-331.000.

Muller, Fredericus F. M.: *See*—
van Riemsdijk, Gerardus A.; and Muller, Fredericus F. M., 4,663,603, Cl. 336-60.000.

Muller, Friedemann: *See*—
Kress, Hans-Jurgen; Muller, Friedemann; Lindner, Christian; Peters, Horst; and Buekers, Josef, 4,692,488, Cl. 524-139.000.

Muller, Friedrich: *See*—
Tietze, Jurgen; Dangulliier, Wilhelm; Thubeaville, Heinz; Pohl, Siegfried; and Muller, Friedrich, 4,708,196, Cl. 165-47.000.

Muller, Fritz: *See*—
Gaechter, Bernhard; Braunecker, Bernhard; and Muller, Fritz, 4,715,714, Cl. 356-375.000.

Muller, Gary R.; Theiss, Scott M.; Brown, James E., Jr.; and Lawson, Bobby R., to Apex Technologies, Inc. Nuclear steam generator sludge lancing method and apparatus. 4,715,324, 12-29-87, Cl. 122-381.000.

Muller, Georg: *See*—
Buschmann, Gerhard; and Muller, Georg, 4,638,657, Cl. 73-78.000.

Muller, George H., to Berke, Joseph J., a part interest. Tissue pneumatic separator structure and method. 4,709,697, 12-1-87, Cl. 128-303.00R.

Muller, Georges: *See*—
Lance, Jacques; and Muller, Georges, 4,691,425, Cl. 29-402.080.

Muller, Gerhard; Hohberg, Gerhard; and Greve, Peter, to Carl-Zeiss-Stiftung. Arrangement for correcting the position of a laser beam guided by means of an articulated optical system. 4,659,916, 4-21-87, Cl. 250-201.000.

Muller, Gerhard: *See*—
Marth, Kurt; Muller, Gerhard; Putz, Jurgen; and Schindler, Josef, 4,704,592, Cl. 336-83.000.

Muller, Gunther: *See*—
Aigner, Rudolf; Blaschke, Gunter; and Muller, Gunther, 4,670,594, Cl. 564-296.000.

Muller, Hanns P.; Clarenz, Werner; von Gizycki, Ulrich; and Wagner, Kuno, to Bayer Aktiengesellschaft. Substantially colorless organic polyisocyanates, processes for their production and their use in the production of polyurethane plastics. 4,639,502, 1-27-87, Cl. 528-45.000.

Muller, Hanns P.; Clarenz, Werner; and Grave, Heinrich, to Bayer Aktiengesellschaft. Process for the production of thermally colorstable aliphatic and/or cycloaliphatic diisocyanates and the use thereof for the production of modified polyisocyanates having improved color properties. 4,677,221, 6-30-87, Cl. 560-115.000.

Muller, Hanns P.: *See*—
Hassel, Tillmann; Muller, Hanns P.; and Boshagen, Horst, 4,659,844, Cl. 549-424.000.
Kerimis, Dimitrios; Muller, Hanns P.; Uerdingen, Walter; and Heine, Heinrich, 4,689,376, Cl. 525-504.000.
Mohring, Edgar; Wagner, Kuno; and Muller, Hanns P., 4,654,377, Cl. 521-170.000.
Mohring, Edgar; Muller, Hanns P.; Roessler, Peter; Wagner, Kuno; and Tietz, Helmut, 4,684,728, Cl. 544-182.000.
Mues, Peter; Kerimis, Dimitrios; Muller, Hanns P.; and Buysch, Hans-Josef, 4,707,539, Cl. 528-371.000.
Probst, Joachim; Sonntag, Michael; Richter, Roland; and Muller, Hanns P., 4,645,817, Cl. 528-45.000.
Richter, Roland; Muller, Hanns P.; and Wegner, Christian, 4,638,795, Cl. 128-90.000.
Schafer, Walter; Muller, Hanns P.; Kuchenmeister, Rolf; and Sickert, Armin, 4,707,386, Cl. 427-386.000.

Muller, Hans, to Grapha-Holding AG. Apparatus for temporary storage of a stream of partially overlapping sheets. 4,651,941, 3-24-87, Cl. 242-59.000.

Muller, Hans; and May, Stefan, to GAO Gesellschaft fur Automation und Organisation mbH. Method of screening half-tone picture themes. 4,659,113, 4-21-87, Cl. 283-94.000.

Muller, Hans; and Preis, Lothar, to Bayer Aktiengesellschaft. Lightweight constructions of increased strength and dimensional stability. 4,665,678, 5-19-87, Cl. 52-808.000.

Muller, Hans, to Grapha-Holding AG. Perfect binder. 4,697,971, 10-6-87, Cl. 412-33.000.

Muller, Hans. Cassette for cleaning the heads of a magnetic tape recorder. 4,706,147, 11-10-87, Cl. 360-128.000.

Muller, Hans; and Suerbaum, Hermann, to Muller, Hans. Method of salvaging a pipe conduit buried under ground. 4,714,095, 12-22-87, Cl. 138-98.000.

Muller, Hans: *See*—
Hofmann, Manfred; and Muller, Hans, 4,676,489, Cl. 267-140.100.
Hofmann, Manfred; Muller, Hans; and Waldecker, Ralf, 4,681,306, Cl. 267-140.100.
Kupka, Gerhard; and Muller, Hans, 4,662,979, Cl. 156-578.000.

Muller, Hans-Albert: *See*—
Muck, Manfred; Blanc, Walter; and Muller, Hans-Albert, 4,689,840, Cl. 4-629.000.

Muller, Hans-Martin, to Robert Bosch GmbH. Electronically controlled fuel injection system for an internal combustion engine. 4,681,076, 7-21-87, Cl. 123-488.000.

Muller, Hans-Martin: *See*—
Plapp, Gunther; Zichner, Botho; Jautelat, Rudiger; Kobler, Rolf; Kratt, Alfred; and Muller, Hans-Martin, 4,705,007, Cl. 123-519.000.

Muller, Hans R., to Sundstrand Data Control, Inc. Solid state memory for aircraft flight data recorder systems. 4,644,494, 2-17-87, Cl. 364-900.000.

Muller, Hans R.: *See*—
Kirscaner, Robert K.; and Muller, Hans R., 4,647,967, Cl. 358-109.000.

Muller, Hartmut; Huber, Hans; Franzmann, Giselher; and Elmenthaler, Bernd, to Dynamit Nobel Aktiengesellschaft. Polyesters containing side chains and the use thereof. 4,668,763, 5-26-87, Cl. 528-296.000.

Muller, Hartwig; Hellwig, Claus; and Beyer, Dietmar, to VEB Kombinat Textima. Synchronizing device for the selection of knitting needles in knitting machines. 4,697,438, 10-6-87, Cl. 66-75.200.

Muller, Hartwig: *See*—
Bischoff, Erwin; Muller, Hartwig; Salcher, Olga; Berschauer, Friedrich; Scheer, Martin; de Jong, Anno; and Frobel, Klaus, 4,670,260, Cl. 424-121.000.
Neuer, Andreas; Grimmer, Eberhard; and Muller, Hartwig, 4,648,249, Cl. 66-75.200.

Muller, Heinz; Lohmar, Elmar; and Scholz, Harald, to Hoechst Aktiengesellschaft. Process for purifying hydrogen chloride gas. 4,678,482, 7-7-87, Cl. 55-71.000.

Muller, Heinz: *See*—
Artzt, Peter; Muller, Heinz; Egbers, Gerhard; Bohm, Gunther; Wittmann, Stephan; and Karl, Rupert, 4,653,260, Cl. 57-263.000.
Artzt, Peter; Muller, Heinz; Egbers, Gerhard; Grimm, Eberhard; and Schreyer, Franz, 4,676,059, Cl. 57-263.000.
Artzt, Peter; Muller, Heinz; Ziegler, Kurt; Egbers, Gerhard; and Wokaun, Jacek, 4,700,431, Cl. 19-105.000.

Muller, Heinz E.: *See*—
Gerlach, Paul; and Muller, Heinz E., 4,688,511, Cl. 116-268.000.

Muller, Helmut, to J. M. Voith GmbH. Multiple stage gearbox shiftable under load. 4,641,549, 2-10-87, Cl. 74-732.000.

Muller, Helmut, to J.M. Voith GmbH. Hydrodynamic control coupling. 4,669,262, 6-2-87, Cl. 60-347.000.

Muller, Horst; Zinke, Horst; and Wehner, Wolfgang, to Ciba-Geigy Corporation. Phosphoric acid compounds as co-stabilizers for Me(II)-carboxylates and/or Me(II)-phenolates in PVC. 4,639,482, 1-27-87, Cl. 524-137.000.

Muller, Horst, to Ciba-Geigy Corporation. Mixtures of organo-tin compounds. 4,698,368, 10-6-87, Cl. 521-93.000.

Muller, Horst, deceased: *See*—
Wehner, Wolfgang; Muller, Horst, deceased; and Schneider, Rainer, 4,642,322, Cl. 524-191.000.

Muller, Jacques; and Cassani, Alexandre, to ETA S.A. Fabriques d'Ebauches. Timer. 4,687,341, 8-18-87, Cl. 368-109.000.

Muller, Jacques; and Triponez, Andre, to ETA S.A. Fabriques d'Ebauches. Integral watch case middle and movement plate and method of making same. 4,696,577, 9-29-87, Cl. 368-276.000.

Muller, Jacques: *See*—
Mock, Elmar; and Muller, Jacques, 4,648,722, Cl. 368-294.000.

Muller, Jean M., to Figg and Muller Engineers, Inc. Concrete deck truss bridge and method of construction. 4,646,379, 3-3-87, Cl. 14-23.000.

Muller, Jean M., to Figg and Muller Engineers, Inc. Method of erecting a cable stayed bridge. 4,662,019, 5-5-87, Cl. 14-1.000.

Muller, Jean-Noel: *See*—
Argoud, Roger; and Muller, Jean-Noel, 4,658,411, Cl. 378-81.000.

Muller, Johann; Trieschmann, Christa; Doskocil, Walter; and Preiner, Gerhard, to Wacker Chemie GmbH. Method for preparing organosilyl carbonates. 4,675,425, 6-23-87, Cl. 556-442.000.

Muller, Johann; Trieschmann, Christa; Doskocil, Walter; and Preiner, Gerhard, to Wacker-Chemie GmbH. Method for preparing acetoxysiloxanes and organo(polysiloxanes having halogen bonded to silicon. 4,680,365, 7-14-87, Cl. 528-15.000.

Muller, Johannes C. A., to U.S. Philips Corporation. Magnetic tape apparatus with integrated control mechanism. 4,688,120, 8-18-87, Cl. 360-85.000.

Muller, Johannes C. A., to U.S. Philips Corporation. Helical scan tape recorder without head-tape contact in stand-by mode. 4,701,821, 10-20-87, Cl. 360-130.240.

Muller, Johannes C. A., to U.S. Philips Corporation. Magnetic tape threading apparatus. 4,706,140, 11-10-87, Cl. 360-85.000.

Muller, Johannes C. A.: *See*—
Bierhoff, Waltherus C. J., and Muller, Johannes C. A., 4,704,619, Cl. 346-139.00R.

Muller, John T., to Leslie Company. Regulating valve. 4,648,553, 3-10-87, Cl. 236-80.00R.

Muller, Josef; Wiersdorff, Walter-Wielant; Burst, Wolfram; Dralle, Heinz; Schaffner, Ernst; and Steinkamp, Rolf, to BASF Aktiengesellschaft. Preparation of veratryl cyanide. 4,661,610, 4-28-87, Cl. 558-344.000.

Muller, Jurgen; Kastl, Alfons; and Farber, Heinrich, to Agfa-Gevaert Aktiengesellschaft. Sheet film processing apparatus for exposed sheet film. 4,641,940, 2-10-87, Cl. 354-322.000.

Muller, Jurgen; Loots, Francois P.; and Vanhorebeek, Remi, to Agfa-Gevaert Aktiengesellschaft. Device for wet processing of photographic films. 4,688,917, 8-25-87, Cl. 354-320.000.

Muller, Jurgen: *See*—
Bauer, Walter; and Muller, Jurgen, 4,676,618, Cl. 354-76.000.
Elbel, Thomas; Muller, Jurgen; and Volklein, Friedemann, 4,665,276, Cl. 136-215.000.
Landua, Werner; and Muller, Jurgen, 4,665,967, Cl. 164-165.000.

Muller, Karl. Machining elongate rods. 4,651,790, 3-24-87, Cl. 144-363.000.

Muller, Karl: *See*—
Limbacher, Bernhard; Muller, Karl; and Mader, Gottfried, 4,633,993, Cl. 192-98.000.

Muller, Karl H.; and Barthel, Walter, to Degussa Aktiengesellschaft. Powdered bitumen concentrate and its use. 4,710,229, 12-1-87, Cl. 106-281.00R.

Muller, Karl-Hans; Neumuller, Matthias; and Turk, Gunther, to Degussa Aktiengesellschaft. Dental-care composition. 4,664,907, 5-12-87, Cl. 424-52.000.

Muller, Karl-Hans; Neumuller, Matthias; and Turk, Gunther, to Degussa Aktiengesellschaft. Opaque dental-care composition. 4,704,270, 11-3-87, Cl. 424-49.000.

Muller, Karl-Hans; Neumuller, Matthias; and Turk, Gunther, to Degussa Aktiengesellschaft. Transparent dental care composition. 4,705,679, 11-10-87, Cl. 424-52.000.

Muller, Karl-Heinz, to Rotzler GmbH & Co. Apparatus for recovering and towing a vehicle. 4,701,099, 10-20-87, Cl. 414-563.000.

Muller, Karl-Heinz: *See*—
Lehmann, Klaus; and Muller, Karl-Heinz, 4,654,605, Cl. 331-55.000.
Meier, Stefan; and Muller, Karl-Heinz, 4,670,651, Cl. 250-309.000.

Muller, Klaus; Mutz, Bernd; and Daler, Helmo, to A. Raymond. Self-locking sheet-metal nut. 4,714,392, 12-22-87, Cl. 411-175.000.

Muller, Klaus: *See*—
Glas, Hans J.; Hecht, Hans; Muller, Klaus; Spitzenberger, Kurt; and Stecher, Gunther, 4,711,130, Cl. 73-708.000.
Wirth, Hermann O.; Muller, Klaus; and Friedrich, Hans-Helmut, 4,689,162, Cl. 252-32.70E.

Muller, Klaus-Helmut: *See*—
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,645,528, Cl. 71-90.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,647,665, Cl. 544-182.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,658,027, Cl. 544-321.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochim; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,659,364, Cl. 71-92.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,666,505, Cl. 71-92.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,680,052, Cl. 71-91.000.
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Kluth, Joachim; Muller, Klaus-Helmut; and Pfister, Theodor, 4,711,959, Cl. 544-320.000.

Muller, Klaus P., to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Process and apparatus for the chromatographic determination of components in specimens. 4,715,216, 12-29-87, Cl. 73-61.10C.

Muller, Kurt, to Sanetta Textilwerk Gebruder Ammann. Device for mounting articles of clothing in an ironing apparatus. 4,645,101, 2-24-87, Cl. 223-66.000.

Muller, Kurt; Gruber, Peter; and Wuthrich, Alfred, to Cerberus AG. Infrared intrusion detector. 4,709,152, 11-24-87, Cl. 250-342.000.

Muller, Kurt; and Meier, Walter, to Cerberus AG. Infrared intrusion detector. 4,710,629, 12-1-87, Cl. 250-342.000.

Muller, Kurt: *See*—
Dreyfuss, Wilfried; Remp, Thomas E., Jr.; and Muller, Kurt, 4,662,402, Cl. 138-96.00T.
Remp, Thomas E., Jr.; Dreyfuss, Wilfried; and Muller, Kurt, 4,706,822, Cl. 211-59.400.

Muller, Lon J.; Franklin, Austin; and George, Robert W., II, to Denning Mobile Robotics, Inc. Ultrasonic ranging system. 4,701,893, 10-20-87, Cl. 367-87.000.

Muller, Lothar: *See*—
Fait, Martin; Gunther, Thomas; Janietz, Peter; Moritz, Werner; Muller, Lothar; and Wellner, Hans, 4,699,806, Cl. 427-126.100.

Muller, Lutz: *See*—
Junge, Bodo; Krause, Hans P.; Muller, Lutz; and Puls, Walter, 4,639,436, Cl. 514-24.000.

Muller, Manfred: *See*—
Bathelt, Heinrich; Ehrl, Winfried; Wehowsky, Frank; Kleber, Rolf; Lotz, Werner; Glenz, Wolfgang; Herdt, Hubert; Jackel, Lothar; Mast, Jan-Hilbert; Hintermeier, Karl; and Muller, Manfred, 4,709,074, Cl. 560-33.000.
Eggert, Albert; Montag, Jurgen; Muller, Manfred; and Wiener, Peter, 4,672,672, Cl. 381-69.000.
Henne, Heinrich; Patzelt, Norbert; Schneider, Lutz T.; Knobloch, Osbert; and Muller, Manfred, 4,709,864, Cl. 241-167.000.
Meixner, Jurgen; Muller, Manfred; and Kremer, Wolfgang, 4,673,758, Cl. 560-90.000.

Muller, Marcel: *See*—
Alig, Leo; and Muller, Marcel, 4,652,679, Cl. 564-86.000.

Muller, Markus: *See*—
Gruner, Heiko; and Muller, Markus, 4,661,682, Cl. 219-121.0PL.

Muller, Maurice E., to Sulzer Brothers Limited; and Protek Ag. Hip joint prosthesis. 4,661,112, 4-28-87, Cl. 623-22.000.

Muller, Michael: *See*—
Abel, Joachim; Neuhaus, Detlev; Hesse, Karl-Heinz; Muller, Michael; and Lichtenberg, Wolfgang, 4,665,362, Cl. 324-208.000.

Muller, Norbert; and Scheuch, Anton, to Hawera Probst GmbH & Co. Drill bit having hollow cylindrical body and a plurality of PCD cutting elements. 4,667,755, 5-26-87, Cl. 175-330.000.

Muller, Norbert; and Moser, Bernhard, to Hawera Probst GmbH & Co. Interchangeable conveying spiral for rock drills. 4,699,226, 10-13-87, Cl. 175-323.000.

Muller, Oscar: *See*—
Hilger, Wilfried; and Muller, Oscar, 4,645,878, Cl. 379-202.000.

Muller, Otmar: *See*—
Berg, Gunter; Muller, Otmar; and Esters, Rainer, 4,640,947, Cl. 524-109.000.

Muller, Otto. Process and system for transmitting a refresh signal to a semiconductor memory. 4,635,224, 1-6-87, Cl. 364-900.000.

Muller, Patrick, to Automotive Products plc. Clutch release mechanism. 4,646,898, 3-3-87, Cl. 192-98.000.

Muller, Patrick, to Automotive Products plc. Friction clutch release mechanism. 4,658,945, 4-21-87, Cl. 192-89.00B.

Muller, Paul, to Teldix GmbH. Method for determining angular velocity. 4,643,574, 2-17-87, Cl. 356-350.000.

Muller, Paul E. Device for preventing the jamming of a disc mower by, or for breaking up, a layer of soil and plant matter. 4,662,159, 5-5-87, Cl. 56-13.600.

Muller, Peter: *See*—
Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,656,457, Cl. 338-176.000.
Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,680,436, Cl. 200-82.00E.

Muller, Peter E., to Nordson Corporation. Thermoplastic material applicator having an adjustable slot nozzle. 4,667,879, 5-26-87, Cl. 239-133.000.

Muller, Peter R.: *See*—
Lindner, Christian; Ott, Karl-Heinz; Nouvertne, Werner; and Muller, Peter R., 4,656,227, Cl. 525-133.000.

Muller, Rainer: *See*—
Frewer, Hans; Muller, Rainer; and Schiffers, Ulrich, 4,669,270, Cl. 60-648.000.
Goebel, Konrad; Muller, Rainer; and Schiffers, Ulrich, 4,676,063, Cl. 60-39.070.
Schiffers, Ulrich; and Muller, Rainer, 4,663,931, Cl. 60-39.070.
Schiffers, Ulrich; and Muller, Rainer, 4,665,688, Cl. 60-39.070.

Muller, Reinhard: *See*—
Borner, Manfred; Trommer, Gert; and Muller, Reinhard, 4,665,421, Cl. 357-30.000.
Kuhn, Albert; and Muller, Reinhard, 4,655,930, Cl. 210-668.000.

Muller, Richard; Leis, Roland; and Zinssmeister, Axel, to Pfaff Industriemaschinen GmbH. Sewing arrangement with feed device. 4,711,189, 12-8-87, Cl. 112-121.120.

Muller, Richard: *See*—
Jonas, Friedrich; Muller, Richard; Merten, Rudolf; and Rottmaier, Ludwig, 4,702,953, Cl. 428-209.000.

Muller, Richard S.; and Dickerson, Richard C., to Ecolochem, Inc. Mobile fluid purification unit. 4,659,460, 4-21-87, Cl. 210-93.000.

Muller, Richard S.; and Howe, Roger T., to University of California, The Regents of the. Integrated circuit sensor. 4,674,319, 6-23-87, Cl. 73-23.000.

Muller, Robert. Externally insulated and sheathed masonry construction. 4,703,604, 11-3-87, Cl. 52-741.000.

Muller, Robert: *See*—
Lagadec, Roger; and Muller, Robert, 4,672,527, Cl. 363-89.000.

Muller, Rolf. Fish eye lens system. 4,647,161, 3-3-87, Cl. 350-462.000.

Muller, Rolf; Niederer, Hans; and Hahn, Othmar, to Ciba-Geigy Corporation. Process for the preparation of 1-amino-2-bromo-4-hydroxyanthraquinone. 4,648,994, 3-10-87, Cl. 260-380.000.

Muller, Rolf; and Grelat, Maurice, to Ciba-Geigy Corporation. Process for the preparation of aromatic hydroxy compounds. 4,657,707, 4-14-87, Cl. 260-383.000.

uller, Rolf, to Papst Motoren GmbH & Co. KG. Tachegenerator for speed control of electric motors. 4,667,122, 5-19-87, Cl. 310-68.00R.

uller, Rolf, to Papst Motoren GmbH & Co. KG. Brushless direct current motor system. 4,698,542, 10-6-87, Cl. 310-67.00R.

uller, Rolf: *See*—
Jellinek, Karl; Muller, Rolf; and Wisomirski, Gerhard, 4,650,825, Cl. 524-596.000.
Jellinek, Karl; Muller, Rolf; and Wisomirski, Gerhard, 4,663,418, Cl. 528-140.000.
Kussmaul, Ulrich; Langer, Manfred; Reh, Kuno; Becherer, Johannes; Wille, Herbert; and Muller, Rolf, 4,677,209, Cl. 548-221.000.
Merkle, Alfred; Moosmann, Georg; and Muller, Rolf, 4,701,653, Cl. 310-152.000.
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Pyles, Robert A.; and Mulvey, Patrick J., 4,663,433, Cl. 528-496.000.
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Munk, Barbara H.: *See*—
Smith, William L.; and Munk, Barbara H., 4,648,987, Cl. 252-559.000.
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Munksgaard, Christian: *See*—
Jurussen, Erik; and Munksgaard, Christian, 4,698,376, Cl. 523-115.000.
Munn, David C., to Tube Runner Limited. Tube or pipe profiling apparatus. 4,655,106, 4-7-87, Cl. 82-4.00C.
Munn, Ernest A.; and Skinner, John A., to De La Rue Systems Limited. Method and apparatus for sensing sheets. 4,700,368, 10-13-87, Cl. 900.
Munn, John B. Panel assembly and a method of installing same. 4,703,545, 10-13-87, Cl. 52-221.000.
Munn, Robin W.: *See*—
Wisnowsky, Michael J.; Brunelli, Timothy A.; and Munn, Robin W., 4,643,884, Cl. 423-53.000.
Munnell, Jeffrey C.: *See*—
Hall, Forrest P., Jr.; and Munnell, Jeffrey C., 4,680,884, Cl. 56.000.
Munnerlyn, Charles: *See*—
Schirmer, Kurt E.; and Munnerlyn, Charles, 4,669,837, Cl. 351-221.000.
Munnig Schmidt, Robert H.; and Ter Heide, Lammert, to U.S. Philips Corporation. Power-supply circuit. 4,647,833, 3-3-87, Cl. 320-21.000.
Munnig Schmidt, Robert H.: *See*—
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Munoz Escribano, Jose-Antonio: *See*—
Duran Romero, Gustavo; and Munoz Escribano, Jose-Antonio, 4,662,108, Cl. 49-130.000.
Munro, Dougald G. Tractor-trailer fluid pressure brake monitoring system. 4,712,422, 12-15-87, Cl. 73-129.000.
Munro, Robert; and Day, Roger A., to AE PLC. Reinforced pistons. 4,679,493, 7-14-87, Cl. 92-212.000.
Munro, Robert; and Speaight, David C., to AE PLC. Pistons. 4,702,151, 10-27-87, Cl. 92-237.000.
Munroe, Albert P.: *See*—
Meyer, Jeffry R.; Munroe, Albert P.; and Bolin, Philip C., 4,711,973, Cl. 174-14.00R.
Munroe, Ronald G., to Eagle Electric Mfg. Co., Inc. Wall-mountable wiring installation. 4,669,804, 6-2-87, Cl. 439-398.000.
Munroe, Ronald G., to Eagle Electric Mfg. Co., Inc. Panel-mounted duplex electrical receptacle and power terminal strip. 4,669,807, 6-2-87, Cl. 439-787.000.
Munroe, Thomas. Fishing reel. 4,657,201, 4-14-87, Cl. 242-84.50R.
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Munsey, R. Jack; DeJong, Leroy D.; and Keip, Charles P., to C-Tec, Inc. Apparatus for centrifugally casting concrete panels. 4,639,204, 1-27-87, Cl. 425-3.000.
Munsinger, Walter: *See*—
Haberle, Fritz; Motting, Gotz; Munsinger, Walter; and Waschitschek, Franz, 4,671,548, Cl. 292-216.000.
Munski, Michael S. Helicopter antitorque auxiliary propulsion system. 4,660,785, 4-28-87, Cl. 244-17.190.
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Mulflur, W. Joseph; and Munson, James R., 4,681,768, Cl. 426-417.000.
Munson, Joel V.: *See*—
Clementi, Robert J.; Gazdik, Charles E.; Lafer, William; Lovesky, Roy L.; McBride, Donald G.; Munson, Joel V.; and Skarvinko, Eugene P., 4,681,654, Cl. 156-630.000.
Munson, John H.: *See*—
McLarty, Daniel R.; and Munson, John H., 4,657,412, Cl. 384-447.000.
Munson, Robert D., to Emerson Electric Co. Solid state ballast for gaseous discharge lamps. 4,641,061, 2-3-87, Cl. 315-210.000.
Munson, Robert E.; Haddad, Hussain A.; and Hanlen, John W., to Ball Corporation. Microstrip reflectarray for satellite communication and radar cross-section enhancement or reduction. 4,684,952, 8-4-87, Cl. 343-700.0MS.
Munson, Robert E.: *See*—
Edwards, Carson P.; Huisjen, Martin A.; and Munson, Robert E., 4,684,929, Cl. 340-541.000.
Munson, Robert W.: *See*—
Lewis, Frederick; and Munson, Robert W., 4,643,439, Cl. 277-95.000.
Munster, Ernst: *See*—
Bieger, Claude; Bruder, Peter; and Munster, Ernst, 4,664,466, Cl. 339-126.00R.
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Munter, Ernst A., to Northern Telecom Limited. Method and apparatus for the channelized serial transmission of redundantly encoded binary data. 4,698,809, 10-6-87, Cl. 371-30.000.
Munters Corporation, The: *See*—
Hellman, Goran, 4,687,574, Cl. 210-151.000.
Muntwyler, Rene : *See*—
Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gotzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler,

Rene ; Pachlatko, Johannes P.; Rempfler, Hermann; Schurter, Rolf; and Szczepanski, Henry, 4,715,883, Cl. 71-90.000.

Muntz, Ronald L.: *See*—
Manis, Paul A.; Martin, Eugene R.; and Muntz, Ronald L., 4,644,074, Cl. 556-401.000.

Munyon, Gary D.; and Swiech, Matthew J., to G & B Rubber Stamp Co., Inc. Roller stamp construction. 4,690,053, 9-1-87, Cl. 101-328.000.

Munz, Gerta H., executrix: *See*—
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Munz, Richard J.: *See*—
Drouet, Michel G.; and Munz, Richard J., 4,652,289, Cl. 65-27.000.

Munz, Rolf: *See*—
Ettischer, Helmut; Ebner, Arno; Munz, Rolf; and Pollak, Raimund, 4,696,615, Cl. 414-114.000.
Ettischer, Helmut; Bethmann, Heinz-G.; Munz, Rolf; Radtke, Manfred; and Uffinger, Friedrich, 4,699,371, Cl. 271-99.000.

Munzenbrock, Anton: *See*—
Behnke, Klaus; and Munzenbrock, Anton, 4,698,565, Cl. 318-318.000.

Munzer, Manfred: *See*—
Liebler, Ralf; Munzer, Manfred; Quis, Peter; and Legierse, Petrus E. J., 4,663,199, Cl. 427-304.000.

Munzinger, Karl; Peter, Jorg; Plessl, Andreas; Poole, Denis; and Vit, Jan G., to BBC Brown, Boveri & Company, Limited. Cast housing for medium-voltage switchgear. 4,689,717, 8-25-87, Cl. 361-335.000.

Munzinger, Karl; and Pinnekamp, Friedrich, to BBC Brown, Boveri & Company, Limited. Metal-encapsulated gas-insulated switching system. 4,700,270, 10-13-87, Cl. 361-341.000.

Munzner, Wulf: *See*—
Melzer, Milena; Roller, Hermann; Schneider, Norbert; Fitterer, Horst; and Munzner, Wulf, 4,645,723, Cl. 428-694.000.

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Delmas, Philippe; Puig, Jose; and Schaeffner, Marc, 4,662,794, Cl. 405-258.000.

Mura, Shinichirou: *See*—
Kobayashi, Toshio; and Mura, Shinichirou, 4,651,848, Cl. 180-247.000.

Murabayashi, Katuyoshi, to Daicel Chemical Industries, Ltd. Resin composition. 4,716,198, 12-29-87, Cl. 525-92.000.

Murachi, Tatsuya, to Toyoda Gosei Co., Ltd. Structure for mounting molding. 4,654,257, 3-31-87, Cl. 428-317.100.

Murachi, Tatsuya, to Toyoda Gosei Co., Ltd. Structure for mounting molding. 4,668,565, 5-26-87, Cl. 428-261.000.

Murachi, Tatsuya, to Toyoda Gosei Co., Ltd. Side mold. 4,671,974, 6-9-87, Cl. 428-31.000.

Murador, Enzo: *See*—
Cambiaghi, Stefano; Dallatomasina, Franco; Giardino, Pietro; Murador, Enzo; and Spreafico, Gaspare, 4,668,625, Cl. 435-70.000.

Muragishi, Isao: *See*—
Makino, Masashi; Nakada, Kunio; Muragishi, Isao; and Nishitani, Syozi, 4,635,403, Cl. 51-94.00R.
Makino, Masashi; Nakada, Kunio; Muragishi, Isao; and Nishitani, Syozi, 4,651,471, Cl. 51-3.000.

Murai, Hidetsugu: *See*—
Kiyoto, Sumio; Murai, Hidetsugu; Tsurumi, Yasuhisa; Terano, Hiroshi; and Kohsaka, Masanobu, 4,670,259, Cl. 424-118.000.

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Murai, Kazuo, to Ricoh Company, Ltd. Halftone digital image processing device. 4,667,250, 5-19-87, Cl. 358-283.000.

Murai, Keiichi: *See*—
Matsumoto, Yasuyuki; Murai, Keiichi; Fukuda, Tadaji; and Ogawa, Kyosuke, 4,702,981, Cl. 430-69.000.

Murai, Masami; Hashio, Masanori; Tsuyuki, Yousuke; and Kaneko, Tsutomu, to Hitachi, Ltd. Method of switching operating systems for a data processing system. 4,675,814, 6-23-87, Cl. 364-300.000.

Murai, Masao, to NEC Corporation. Clock frequency detection circuit. 4,672,325, 6-9-87, Cl. 328-138.000.

Murai, Masaru; Hujita, Hisashi; and Katayama, Mikio, to Murai Optical Company, Ltd. Eyeglass frame decorated with stained-glass patterns and method of making the same. 4,665,598, 5-19-87, Cl. 29-20.000.

Murai, Masasumi, to Tsubakimoto Chain Co. Automotive body, floor conveyor, having pivotal carriers. 4,691,640, 9-8-87, Cl. 104-140.000.

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Murai, Mikio: *See*—
Suzuki, Takashi; Hibino, Kunio; Murai, Mikio; Kawase, Shigeki; Shinohara, Koichi; and Nouchi, Norimoto, 4,645,703, Cl. 428-141.000.

Murai Optical Company, Ltd.: *See*—
Murai, Masaru; Hujita, Hisashi; and Katayama, Mikio, 4,665,598, Cl. 29-20.000.

Murai, Shunji: *See*—
Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,266, Cl. 361-321.000.
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Muraj, Takaaki, Watanabe, Shoji; Inoue, Kimio; Isobe, Tomohisa; Nakashima, Naoki; Miho, Takuya; and Ikemoto, Yoshiyuki, to Daicel Chemical Industries, Ltd. Process for producing lactone polymer and an anti-shrinking thermosetting resin composition having formulated therein said lactone polymer as an anti-shrinking agent. 4,663,429, 5-5-87, Cl. 528-355.000.

Murai, Takashi, to Mitsubishi Denki Kabushiki Kaisha. Cryogenic container. 4,680,935, 7-21-87, Cl. 62-45.000.

Murai, Takashi: *See*—
Toyoda, Katsuyoshi; and Murai, Takashi, 4,713,941, Cl. 62-50.000.

Murai, Toshiharu: *See*—
Ito, Tadashi; Jinnai, Koichiro; Koike, Takahisa; Murai, Toshiharu; Fukazawa, Takao; and Ishima, Kazumi, 4,642,653, Cl. 346-1.100.

Murai, Toshimi: *See*—
Sawada, Hiroshi; and Murai, Toshimi, 4,697,567, Cl. 123-489.000.

Murai, Yasushi: *See*—
Shibahara, Seiji; Okonogy, Tsuneo; Murai, Yasushi; Fukatsu, Shunzo; Niida, Taro; Christensen, Burton G.; and Wakazawa, Tadashi, 4,645,769, Cl. 514-210.000.

Murai, Yoshiichi: *See*—
Sugiyama, Makoto; Sugimura, Hiroshi; Machida, Naoyoshi; and Murai, Yoshiichi, 4,715,121, Cl. 30-253.000.

Murai, Yoshikazu: *See*—
Sato, Atsushi; Murai, Yoshikazu; Yamaguchi, Tatsuo; Mochizuki, Kanji; and Sugisawa, Kunio, 4,692,270, Cl. 252-353.000.

Murai, Yoshio; Shiozawa, Kazuo; and Shimada, Masaki, to Konishiroku Photo Industry Co., Ltd. Automatic focusing device of video camera. 4,672,456, 6-9-87, Cl. 358-227.000.

Murai, Yoshiyuji: *See*—
Yanami, Tetsuji; Murai, Yoshiyuji; and Oshima, Ryoichi, 4,683,297, Cl. 536-18.600.

Muraishi, Masakazu, to Nissan Motor Company, Limited. Seat for use in motor vehicle. 4,695,097, 9-22-87, Cl. 297-452.000.

Muraishi, Tadashi: *See*—
Matsuda, Minoru; and Muraishi, Tadashi, 4,645,049, Cl. 192-35.000.

Muraji, Kenji: *See*—
Goto, Teruo; Takata, Yoshirou; Muraji, Kenji; and Higashi, Mikio, 4,698,622, Cl. 340-648.000.

Muraji, Tetsuo, to Mikuni Kogyo Kabushiki Kaisha. Fuel control system for air-fuel mixture supply devices. 4,709,677, 12-1-87, Cl. 123-438.000.

Murakamai, Yuichi: *See*—
Yamada, Chikara; Watabe, Yoji; Irako, Koichi, deceased; and Murakamai, Yuichi, 4,711,870, Cl. 502-303.000.

Murakami, Azuma; and Taguchi, Yoshinori, to Wacom Co., Ltd. Position detecting apparatus. 4,634,973, 1-6-87, Cl. 324-207.000.

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Murakami, Azuma; Katsurahira, Yuji; and Taguchi, Yoshinori, to Wacom Co., Ltd. Magnetostrictive vibration wave position detecting apparatus with variable threshold detecting valves. 4,709,209, 11-24-87, Cl. 324-207.000.

Murakami, Chikara; Nakajima, Atsushi; Shimamoto, Yoshiharu; and Takahashi, Hiroshi, to Kabushiki Kaisha Toshiba. Magnetic bearing device. 4,652,780, 3-24-87, Cl. 310-90.500.

Murakami, Eiichi: *See*—
Kimura, Shin-Ichiro; Murakami, Eiichi; Warabisako, Terunori; Miyake, Kiyoshi; and Sunami, Hideo, 4,683,838, Cl. 118-715.000.

Murakami, Eiji; Hyodo, Toru; and Tanaka, Haruhiko, to Janome Sewing Machine Co. Ltd. Device for setting stitching conditions in an electronic control sewing machine. 4,651,663, 3-24-87, Cl. 112-458.000.

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Murakami, Gen; and Gappa, Takeshi, to Hitachi, Ltd. Semiconductor device and a method of producing the same. 4,691,225, 9-1-87, Cl. 357-80.000.

Murakami, Gen: *See*—
Masuda, Masachika; and Murakami, Gen, 4,706,105, Cl. 357-74.000.
Suzuki, Akira; Tanaka, Hideki; and Murakami, Gen, 4,707,724, Cl. 357-71.000.

Murakami, Hajime: *See*—
Komatsubara, Shoji; Hatabe, Yukio; Horikawa, Tooru; Murasawa, Sadao; and Murakami, Hajime, 4,682,881, Cl. 355-10.000.
Murasawa, Sadao; Murakami, Hajime; and Oka, Nobuharu, 4,663,257, Cl. 430-45.000.

Murakami, Haruhiko: *See*—
Iida, Hiroyuki; Murakami, Haruhiko; Matsumoto, Tsuyoshi; and Kashihara, Junzo, 4,711,313, Cl. 177-127.000.

Murakami, Hideaki: *See*—
Kadokura, Hidekimi; Umezaki, Hiroshi; and Murakami, Hideaki, 4,671,993, Cl. 428-323.000.
Kadokura, Hidekimi; Umezaki, Hiroshi; Murakami, Hideaki; and Mizoe, Toshiyuki, 4,704,266, Cl. 423-600.000.

Murakami, Hidenobu; and Yasunaga, Seiji, to Mitsubishi Denki Kabushiki Kaisha. Control system for a charged particle beam apparatus. 4,684,782, 8-4-87, Cl. 219-121.0EA.

Murakami, Hideo; and Kobayashi, Takehiro, to Ryobi Ltd. Clutch releasing and braking mechanism for fishing reel. 4,640,471, 2-3-87, Cl. 242-84.530.

Murakami, Hideo, to Ryobi, Ltd. Clutch mechanism for a fishing reel. 4,709,874, 12-1-87, Cl. 242-220.000.

Murakami, Hiromi: *See*—
Tsuneki, Takao; Ano, Shinji; Uchida, Takahiko; Imai, Tomoyasu; Okamoto, Masaru; Ohtaka, Hideo; and Murakami, Hiromi. 4,666,609, Cl. 210-701.000.

Murakami, Hiroshi: *See*—
Nakamura, Michio; Tsunoda, Minoru; Murakami, Hiroshi; Matsui, Yuuji; Matsuhashi, Noriyasu; and Fukuchi, Kiyoshi. 4,653,762, Cl. 280-5.00A.

Murakami, Hiroya: *See*—
Takasaki, Mitsuhiro; and Murakami, Hiroya. 4,653,365, Cl. 83-50.000.

Murakami, Hiroyashu: *See*—
Shinoda, Nobuhiko; Sakurada, Nobuaki; Kawamura, Masaharu; Ito, Tadashi; Ito, Fumio; and Murakami, Hiroyashu. 4,664,496, Cl. 354-420.000.

Murakami, Hiroyasu: *See*—
Mukoujima, Hitoshi; Hiramatsu, Akira; Murakami, Hiroyasu; and Katsuma, Makoto. 4,634,915, Cl. 310-323.000.
Notagashira, Hidefumi; Sumi, Akiyasu; Inaba, Hiroyoshi; Katsuma, Makoto; Murakami, Hiroyasu; and Hiramatsu, Akira. 4,660,933, Cl. 350-255.000.

Murakami, Isato: *See*—
Kikumoto, Tadao; and Murakami, Isato. 4,694,724, Cl. 84-1.030.

Murakami Jyoji; and Yamada, Kenzi, to Fujitsu Limited. Integration type analog-to-digital converter having continuously charging and discharging functions. 4,642,609, 2-10-87, Cl. 340-347.0AD.

Murakami, Kakuchi: *See*—
Hagiwara, Takeshi; Matsuo, Masataka; Tamehiro, Tanezoh; Tamehiro, Taizo; and Murakami, Kakuchi. 4,711,916, Cl. 523-223.000.

Murakami, Kakuji; Akutsu, Eiichi; and Aruga, Tamotsu, to Ricoh Company, Ltd. Recording material for ink jet printing. 4,680,235, 7-14-87, Cl. 428-414.400.

Murakami, Kakuji: *See*—
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi. 4,647,310, Cl. 106-22.000.
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi. 4,711,668, Cl. 106-22.000.
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; and Uemura, Hiroyuki. 4,713,113, Cl. 106-22.000.

Murakami, Kanemitsu: *See*—
Iguchi, Yukinobu; Murakami, Kanemitsu; and Kikuchi, Masahiro. 4,703,223, Cl. 313-414.000.
Kikuchi, Masahiro; Kobori, Yuzuru; and Murakami, Kanemitsu. 4,649,318, Cl. 313-449.000.

Murakami, Kanji: *See*—
Akahoshi, Haruo; Murakami, Kanji; Wajima, Motoyo; Kogawa, Kiyonori; Toba, Ritsuji; and Shimazaki, Takeshi. 4,642,161, Cl. 156-630.000.

Murakami, Katsumi: *See*—
Komiya, Yutaka; Murakami, Katsumi; Inuzuka, Tsuneki; and Sakamaki, Hisashi. 4,671,647, Cl. 355-14.00R.

Murakami, Kazuhiro: *See*—
Uda, Youichi; Matsushima, Seiya; Saito, Kazuhiko; Yamamoto, Shoji; and Murakami, Kazuhiro. 4,637,238, Cl. 70-456.00R.

Murakami, Kazumasa; and Terada, Motoharu, to Matsushita Electric Works, Ltd. Fire alarm system. 4,692,750, 9-8-87, Cl. 340-588.000.

Murakami, Kazutomo: *See*—
Mizuno, Keiichiro; Iida, Kazuyoshi; and Murakami, Kazutomo. 4,635,501, Cl. 74-574.000.

Murakami, Keiichi: *See*—
Klepper, John R.; Reid, John M.; Miwa, Hirohide; Shimura, Takaki; and Murakami, Keiichi. 4,648,276, Cl. 73-599.000.
Shimura, Takaki; Murakami, Keiichi; Igarashi, Yutaka; Shiba, Akira; Hayashi, Hajime; Miwa, Hirohide; Inoue, Michitoshi; and Matsumoto, Masayuki. 4,655,228, Cl. 128-660.000.

Murakami, Keinosuke; Enami, Kazumasa; and Yagi, Nobuyuki, to Nippon Hoso Kyokai. Video-signal time-axis correction apparatus. 4,673,980, 6-16-87, Cl. 358-149.000.

Murakami, Keisuke: *See*—
Fujiwara, Tsutomu; Matsuda, Susumu; Murakami, Keisuke; Ogawa, Izumi; Tago, Mamoru; Aoki, Chihiro; Doi, Masahiro; and Anno, Hiroshi. 4,711,443, Cl. 271-126.000.
Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki. 4,656,262, Cl. 540-221.000.

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Murakami, Kenjiro, to Seiko Epson Kabushiki Kaisha. Mounting mechanism for a print head. 4,708,502, 11-24-87, Cl. 400-175.000.

Murakami, Kenkichi, to Kabushiki Kaisha Plastic Kogaku Kenkyusho. Multi-layer extrusion die. 4,669,965, 6-2-87, Cl. 425-133.500.

Murakami, Kenkichi: *See*—
Kawakami, Michio; Araki, Yoshima; Murakami, Kenkichi; Oikawa, Hidetoshi; Nakanishi, Michio; and Hosotani, Makoto. 4,659,786, Cl. 525-415.000.

Murakami, Kiyoharu, to Kabushiki Kaisha Daikin Seisakusho. Torsion damper disc. 4,646,899, 3-3-87, Cl. 192-106.100.

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Kawai, Hideaki; and Murakami, Kiyoharu. 4,662,243, Cl. 74-731.000.

Murakami, Kiyotaka: *See*—
Watanabe, Masato; Tanaka, Yasuhiko; and Murakami, Kiyotaka. 4,660,057, Cl. 346-140.00R.

Murakami, Koichi, to Nissan Motor Co., Ltd. Method of manufacture for semiconductor accelerometer. 4,706,374, 11-17-87, Cl. 437-225.000.

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Iizawa, Ryuji; and Murakami, Koji. 4,641,067, Cl. 318-287.000.

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Nojiri, Shoji; Ogawa, Kenichi; and Murakami, Koso. 4,656,625, Cl. 370-62.000.

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Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi. 4,709,079, Cl. 560-66.000.

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Suwa, Kyoichi; Kawai, Hidemi; and Murakami, Masaichi. 4,679,942, Cl. 356-401.000.

Murakami, Mitsuharu: *See*—
Hatano, Hirofuna; Yamazaki, Masayasu; Sasaki, Atsushi; Mikami, Keigo, deceased; Taoda, Kiyomichi; and Murakami, Mitsuharu. 4,669,976, Cl. 432-58.000.

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Murakami, Motoaki, to Noritsu Kenkyu Center Co., Ltd. Apparatus for transporting disc films. 4,655,575, 4-7-87, Cl. 354-322.000.

Murakami, Nobuaki: *See*—
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Murakami, Ryoichi: *See*—
Saito, Koichi; Mino, Yasutake; and Murakami, Ryoichi. 4,673,444, Cl. 148-6.15Z.

Murakami, Saburo; Kinashi, Shoji; and Ego, Toyokazu, to Mitsubishi Rayon Co., Ltd. Process for continuous preparation of synthetic resin plates having irregular flow pattern of different colors. 4,710,333, 12-1-87, Cl. 264-73.000.

Murakami, Sakae: *See*—
Homma, Shirou; Izumi, Takashi; and Murakami, Sakae. 4,701,508, Cl. 526-249.000.

Murakami, Satoshi: *See*—
Endo, Yasuhisa; Mizuhara, Shuhei; Murakami, Satoshi; Beppu, Osamu; and Toshioka, Saiji. 4,704,997, Cl. 123-198.0DB.

Murakami, Seiro; and Hamajima, Muneki, to Nippon Kogaku K. K. Method and apparatus for detecting an edge position of a pattern and eliminating overlapping pattern signals. 4,639,604, 1-27-87, Cl. 250-548.000.

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Murakami, Seiro: *See*—
Matsuura, Toshio; Murakami, Seiro; Imai, Yuji; Ohta, Kazuya; and Tanimoto, Akikazu. 4,702,606, Cl. 356-401.000.
Tanimoto, Akikazu; Matsuura, Toshio; Murakami, Seiro; Uehara, Makoto; and Suwa, Kyoichi. 4,677,301, Cl. 250-548.000.

Murakami, Shigeo, to Dainippon Screen Mfg. Co., Ltd. Image reader with plural pickup elements reading overlapping image regions of an original image. 4,712,134, 12-8-87, Cl. 358-213.130.

Murakami, Shiro; Fujii, Shigeo; Nakao, Masayuki; Igarashi, Yoshio; and Endo, Juro, to Hitachi Metals, Ltd. Method of manufacturing a magnetic media. 4,645,690, 2-24-87, Cl. 427-128.000.

Murakami, Shiro: *See*—
Endo, Juro; Murakami, Shiro; Fuji, Shigeo; Nakao, Masayuki; and Iimura, Tsutomu. 4,663,193, Cl. 427-129.000.
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Murakami, Shoji: *See*—
Okumura, Mitsuhiro; Naya, Eizo; Harima, Mitsuhiro; Murakami, Shoji; and Miyamoto, Seiichi. 4,677,264, Cl. 200-144.00B.

Murakami, Shuichi: *See*—
Maeda, Yukio; Kitayama, Yoshifumi; and Murakami, Shuichi, 4,676,864, Cl. 156-633.000.

Murakami, Shuzo: *See*—
Furukawa, Nobuhiro; Murakami, Shuzo; and Nishioka, Masato, 4,680,240, Cl. 429-13.000.
Yamano, Masaru; Sakai, Takashi; Furukawa, Nobuhiro; Murakami, Shuzo; and Matsumoto, Takanao, 4,636,445, Cl. 429-53.000.

Murakami, Susumu; and Fujita, Satoshi, to Okumura Corporation. Method of and apparatus for building thin lining on tunnel. 4,666,336, 5-19-87, Cl. 405-138.000.

Murakami, Susumu; and Honda, Hiroo, to Okumura Corporation. Tunnel excavation method. 4,673,218, 6-16-87, Cl. 299-15.000.

Murakami, Susumu; Kagami, Teruyuki; Yatsuo, Tsutomu; and Takahashi, Masaaki, to Hitachi, Ltd. Semiconductor device having high breakdown voltage. 4,691,223, 9-1-87, Cl. 357-51.000.

Murakami, Syuichi: *See*—
Kudoh, Shinichi; Kabeshita, Akira; and Murakami, Syuichi, 4,656,048, Cl. 427-8.000.

Murakami, Tadashi; and Tomita, Kazuo, to Sankyo Company Limited. Process for preparing 3-hydroxy-5-methylisoxazole. 4,634,774, 1-6-87, Cl. 548-243.000.

Murakami, Takashi, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor laser with an active layer having varying thicknesses. 4,674,094, 6-16-87, Cl. 372-45.000.

Murakami, Takashi: *See*—
Ohta, Takahiro; Inuiya, Masafumi; Kobayashi, Kazuyoshi; and Murakami, Takashi, 4,642,700, Cl. 358-285.000.

Murakami, Terukiyo, to Nissan Motor Co., Ltd. Apparatus for throttle valve control. 4,641,622, 2-10-87, Cl. 123-479.000.

Murakami, Tokumichi; Asai, Kohtaro; and Itoh, Atsushi, to Mitsubishi Denki Kabushiki Kaisha. Vector quantizer. 4,670,851, 6-2-87, Cl. 364-518.000.

Murakami, Tokumichi; Itoh, Atsushi; Asai, Kohtaro; Kamizawa, Koh; and Nishida, Masami, to Mitsubishi Denki Kabushiki Kaisha. Interframe adaptive vector quantization encoding apparatus and video encoding transmission apparatus. 4,710,812, 12-1-87, Cl. 358-136.000.

Murakami, Tomomi; Kihara, Hiroyuki; and Mitaki, Kazuya, to Citizen Watch Co., Ltd. Electronic equipment with geomagnetic direction sensor. 4,668,100, 5-26-87, Cl. 368-10.000.

Murakami, Tomoyoshi: *See*—
Matsuo, Shigeru; and Murakami, Tomoyoshi, 4,640,974, Cl. 528-211.000.
Matsuo, Shigeru; and Murakami, Tomoyoshi, 4,640,975, Cl. 528-211.000.
Matsuo, Shigeru; and Murakami, Tomoyoshi, 4,663,427, Cl. 528-211.000.
Matsuo, Shigeru; Murakami, Tomoyoshi; and Takasawa, Ryuichi, 4,703,104, Cl. 528-211.000.

Murakami, Toshio, to Hitachi, Ltd. Signal processing circuit for a color video camera providing shading correction by varying the black clamping level. 4,680,624, 7-14-87, Cl. 358-44.000.

Murakami, Toshio: *See*—
Itoh, Kenkichi; Matsui, Takao; and Murakami, Toshio, 4,658,950, Cl. 198-577.000.

Murakami, Toshiyuki; Sugimoto, Norihiko; and Ogawa, Naoki, to Hitachi, Ltd.; and Hitachi, Process Computer Engineering, Inc. Method of and apparatus for storing priority levels in token-ring network system. 4,680,757, 7-14-87, Cl. 370-89.000.

Murakami, Tsugio; and Kawamoto, Taizo, to Toyo Soda Manufacturing Co., Ltd. Process for recovering ethyieneamines from aqueous solution of ethyleneamine carbonates. 4,650,906, 3-17-87, Cl. 564-498.000.

Murakami, Yasuhiro: *See*—
Hayashi, Yoshimasa; and Murakami, Yasuhiro, 4,686,942, Cl. 123-41.210.

Murakami, Yasuji: *See*—
Ishihara, Koushi; Murakami, Yasuji; Yoshizawa, Nobuyuki; and Funaki, Kiyoshi, 4,684,213, Cl. 350-96.230.

Murakami, Yoichi: *See*—
Ooka, Masataka; Kuwamura, Shinichi; and Murakami, Yoichi, 4,634,736, Cl. 525-117.000.
Ooka, Masataka; Kawamura, Shinichi; and Murakami, Yoichi, 4,670,521, Cl. 525-382.000.

Murakami, Yoshihiro: *See*—
Hosoya, Nobukazu; Murakami, Yoshihiro; Higashino, Takeshi; and Harai, Yoshihiro, 4,652,778, Cl. 307-603.000.

Murakami, Yoshikazu; Ito, Seigo; Okamoto, Hiromi; and Tanaka, Hideo, to Sony Corporation. Ferromagnetic resonator. 4,679,015, 7-7-87, Cl. 333-219.000.

Murakami, Yoshikazu; Ito, Seigo; and Yamada, Toshiro, to Sony Corporation. Receiving circuit for converting signals comprising at least two ferromagnetic resonators. 4,704,739, 11-3-87, Cl. 455-325.000.

Murakami, Yoshikazu: *See*—
Ito, Seigo; and Murakami, Yoshikazu, 4,636,756, Cl. 333-202.000.
Ito, Seigo; and Murakami, Yoshikazu, 4,701,729, Cl. 333-219.000.

Murakami, Yoshimasa: *See*—
Ohmura, Keiji; Kawai, Sueo; Murakami, Yoshimasa; Takeichi, Michifumi; and Okazaki, Masato, 4,645,258, Cl. 296-204.000.

Murakami, Yoshiteru: *See*—
Takahashi, Akira; Murakami, Yoshiteru; Hirokane, Junji; Katayama, Hiroyuki; and Ohta, Kenji, 4,695,514, Cl. 428-432.000.

Murakami, Yotaro: *See*—
Sugimoto, Koichi; Kamei, Kiyoshi; Murakami, Yotaro; Sugimoto, Takashi; Nishimura, Takashi; and Takashima, Takahiro, 4,634,477, Cl. 148-402.000.

Murakami, Yuetsu: *See*—
Masumoto, Hakaru; and Murakami, Yuetsu, 4,710,243, Cl. 148-312.000.

Murakami, Yuichi; and Yamamoto, Tomohiro, to Aisin Seiki Kabushiki Kaisha. Safety device for electronic equipments. 4,673,832, 6-16-87, Cl. 307-326.000.

Murakami, Yuichi: *See*—
Nakamura, Makoto; Takahashi, Mitsuru; Osawa, Namieki; and Murakami, Yuichi, 4,713,044, Cl. 474-135.000.
Niizuma, Hiroshi, Miki, Toshiro; Kojima, Shiro; Azuma, Kishiro; Kato, Hiroyuki; Murakami, Yuichi; and Ito, Tsutomu, 4,677,225, Cl. 562-599.000.

Murakami, Yukio, to Fuji Photo Film Co., Ltd. Method of strengthening the alkali resistance of a porous glass. 4,661,138, 4-28-87, Cl. 65-31.000.

Murakami, Yukiyasu: *See*—
Shibanuma, Tadao; Nagano, Noriaki; Hara, Ryuichiro; Nakano, Kohji; Koda, Akio; Yamazaki, Atsuki; and Murakami, Yukiyasu, 4,690,921, Cl. 514-205.000.
Shibanuma, Tadao; Nakano, Kohji; Nagano, Noriaki; Murakami, Yukiyasu; Hara, Ryuichiro; Koda, Akio; and Yamazaki, Atsuki, 4,699,980, Cl. 540-224.000.

Murakawa, Kazunori: *See*—
Mitsuhashi, Yasuo; Uchiyama, Masaki; Murakawa, Kazunori; and Okado, Kenji, 4,640,882, Cl. 430-110.000.

Murakawa, Shigemi; Taguchi, Seiji; Nomura, Makoto; Takabe, Ryoji; Iwashita, Yoshiharu; and Ishii, Masahiro, to Kawasaki Steel Corp. Apparatus for monitoring burden distribution in furnace. 4,697,453, 10-6-87, Cl. 73-290.00R.

Murakawa, Shoji, to Toyoda Gosei Co., Ltd. Automatic clip mounting device. 4,686,750, 8-18-87, Cl. 29-34.00R.

Murakawa, Takashi: *See*—
Katsuno, Hisashi; Murakawa, Takashi; and Yoneda, Toshikazu, 4,681,865, Cl. 502-74.000.

Muraki, Hideaki: *See*—
Suzuki, Kenichirou; Fujitani, Yoshiyasu; Yoshimoto, Taisuke; and Muraki, Hideaki, 4,661,329, Cl. 423-245.000.

Muraki, Kazunori, to NEC Corporation. Pivot-type machine translating system comprising a pragmatic table for checking semantic structures, a pivot representation, and a result of translation. 4,635,199, 1-6-87, Cl. 364-419.000.

Muraki, Kazunori, to NEC Corporation. Language processing dictionary for bidirectionally retrieving morphemic and semantic expressions. 4,703,425, 10-27-87, Cl. 364-419.000.

Muraki, Tetsuzo: *See*—
Nishida, Minoru; Hattori, Tadashi; Yoshimura, Kunimasa; and Muraki, Tetsuzo, 4,695,758, Cl. 313-130.000.

Murali, Jagannathan, to Conoco Inc. Method for applying protective coatings. 4,663,181, 5-5-87, Cl. 427-34.000.

Murali, Jagannathan; and Buck, Erwin, to Conoco Inc. Method for applying protective coatings. 4,684,447, 8-4-87, Cl. 204-38.500.

Muralidhara, Ranya: *See*—
Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Luccarelli, Domenick, Jr.; Miller, Kevin P.; and Wiener, Charles, 4,634,595, Cl. 426-535.000.
Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Miller, Kevin P.; Luccarelli, Domenick, Jr.; and Wiener, Charles, 4,652,670, Cl. 560-147.000.
Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Miller, Kevin P.; and Luccarelli, Domenick, Jr., 4,652,682, Cl. 568-50.000.
Pittet, Alan O.; Muralidhara, Ranya; and Vock, Manfred H., 4,654,218, Cl. 426-535.000.
Pittet, Alan O.; Muralidhara, Ranya; Miller, Kevin P.; Luccarelli, Domenick, Jr.; and Vock, Manfred H., 4,658,067, Cl. 568-38.000.
Pittet, Alan O.; Muralidhara, Ranya; and Vock, Manfred H., 4,663,476, Cl. 560-152.000.
Pittet, Alan O.; Muralidhara, Ranya; and Vock, Manfred H., 4,666,728, Cl. 426-535.000.
Pittet, Alan O.; Muralidhara, Ranya; and Vock, Manfred H., 4,677,223, Cl. 560-147.000.
Pittet, Alan O.; Muralidhara, Ranya; and Hagedorn, Myrna L., 4,680,142, Cl. 252-522.00R.
Pittet, Alan O.; Muralidhara, Ranya; and Liberman, Arthur L., 4,683,342, Cl. 568-464.000.
Pittet, Alan O.; Muralidhara, Ranya; and Vock, Manfred H., 4,689,428, Cl. 560-152.000.
Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Miller, Kevin P.; and Luccarelli, Domenick, Jr., 4,694,106, Cl. 568-38.000.
Pittet, Alan O.; Muralidhara, Ranya; Luccarelli, Domenick, Jr.; Miller, Kevin P.; and Vock, Manfred H., 4,695,473, Cl. 426-535.000.
Pittet, Alan O.; Muralidhara, Ranya; Vock, Manfred H.; Luccarelli, Domenick, Jr.; Miller, Kevin P.; and Wiener, Charles, 4,701,548, Cl. 560-152.000.
Pittet, Alan O.; Muralidhara, Ranya; and Hagedorn, Myrna L., 4,709,707, Cl. 131-276.000.

Muramatsu, Akira: *See*—
Yasuoka, Hideki; Tanizaki, Yasunobu; Muramatsu, Akira; and Anzai, Norio, 4,662,057, Cl. 29-571.000.

Muramatsu, Fumio: *See*—
Kawabuchi, Masami; Matsuo, Koji; Muramatsu, Fumio; Fukumoto, Akira; and Saito, Koetsu, 4,699,150, Cl. 128-660.000.

uramatsu, Hiromochi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, to Nippondenso Co., Ltd. Liquid crystal dazzle-free reflection mirror. 4,671,617, 6-9-87, Cl. 350-335.000.
uramatsu, Hiroshi, to Victor Company of Japan Limited. Magnetic head assembly for tape recorders having reversible tape motion. 4,672,492, 6-9-87, Cl. 360-109.000.
uramatsu, Kenichi: *See*—
Yanagisawa, Wasuke; and Muramatsu, Kenichi, 4,716,382, Cl. 330-286.000.
uramatsu, Kunihiro, to Nissan Motor Company, Limited. Battery condition monitor and monitoring method. 4,678,998, 7-7-87, Cl. 324-427.000.
uramatsu, Masao: *See*—
Nakahara, Yoshihiko; Muramatsu, Masao; and Ueno, Kouichi, 4,682,017, Cl. 235-492.000.
uramatsu, Masatoshi: *See*—
Matsubara, Katsumi; Uchida, Riichi; Muramatsu, Masatoshi; Naya, Kotaro; and Takagi, Tsuneharu, 4,714,418, Cl. 418-201.000.
uramatsu, Shigeru: *See*—
Anahara, Meiji; Muramatsu, Shigeru; Takagi, Isamu; and Tuboi, Masayoshi, 4,672,804, Cl. 57-401.000.
uramatsu, Shinichi; Shimada, Toshikazu; Matsubara, Sunao; Itoh, Haruo; and Nakamura, Nobuo, to Hitachi, Ltd. Photo-electronic conversion apparatus with light pattern discriminator. 4,642,412, 2-10-87, Cl. 136-244.000.
uramatsu, Tateo; Enami, Yasushi; Saito, Hideaki; and Aramaki, Tsuminori, to Bridgestone Corporation. Flexible membraneous weir. 4,662,783, 5-5-87, Cl. 405-115.000.
uramatsu, Tersuro: *See*—
Kadono, Masaru; Nago, Kumio; Yamamoto, Tatsushi; Muramatsu, Tersuro; Tsuchimoto, Shuuhei; Yoshikawa, Mitsuhiko; and Tomita, Masatoshi, 4,702,935, Cl. 427-42.000.
uramatsu, Toshihiko; Isomura, Shigenori; and Harada, Takashi, to Nippondenso Co., Ltd. Apparatus and method for injecting fuel into engine according to group injection system. 4,706,196, 11-10-87, Cl. 364-431.050.
uramatsu, Toshio: *See*—
Itoh, Toyotsugu; and Muramatsu, Toshio, 4,639,072, Cl. 350-6.800.
umoto, Kenichi: *See*—
Imamura, Kaoru; and Muramoto, Kenichi, 4,716,489, Cl. 361-91.000.
umoto, Naohiro: *See*—
Suzuki, Toshio; Shirahata, Akihiko; and Muramoto, Naohiro, 4,677,161, Cl. 524-862.000.
umoto, Setsuo: *See*—
Koze, Shuichi; Inomata, Tamotsu; Muramoto, Setsuo; and Ikeda, Hisayuki, 4,676,897, Cl. 210-198.200.
umoto, Tadashi: *See*—
Arataru, Shinichi; and Muramoto, Tadashi, 4,662,926, Cl. 65-114.000.
umoto, Takumi: *See*—
Okino, Kiyomi; and Muramoto, Takumi, 4,637,648, Cl. 296-63.000.
umoto, Tomotaka: *See*—
Kasunaga, Makoto; Muramoto, Tomotaka; and Nagasawa, Kenichi, 4,679,066, Cl. 358-29.000.
umoto, Yasuo: *See*—
ogawa, Yasuhiro; and Muramoto, Yasuo, 4,660,228, Cl. 2-167.000.
umoto, Yutaka: *See*—
obayashi, Susumu; Muramoto, Yutaka; Ishizaka, Hideo; and Ishii, Yoshinori, 4,684,869, Cl. 320-2.000.
uka, Akio: *See*—
awasaki, Kazuhiro; and Muranaka, Akio, 4,700,411, Cl. 2-425.000.
uka, Kozo, to Mazda Motor Corporation. Working apparatus guided along a workpiece conveyor. 4,700,472, 10-20-87, Cl. 29-822.000.
uka, Takeshi: *See*—
ohyama, Masaki; Muranaka, Takeshi; Fukui, Kunisuke; and Kashiwa, Norio, 4,642,269, Cl. 428-516.000.
uka, Yoshiyuki: *See*—
iji, Setsuro; Ogawa, Kazuo; Hamakawa, Toshihiro; and Muranaka, Yoshiyuki, 4,675,428, Cl. 558-52.000.
shi, Hideo: *See*—
hizaki, Shigeya; Sugahara, Koichi; Muranishi, Hideo; and Natuhara, Masao, 4,701,677, Cl. 315-382.000.
, Kazuo: *See*—
tsuda, Misao; Tsuda, Toshitaka; Murano, Kazuo; and Awata, Yutaka, 4,679,188, Cl. 370-29.000.
ihino, Shigeru; Ueki, Junzo; Shibuya, Ichiro; Kawada, Shigeo; uno, Akira; Tanzaki, Hiromasa; and Murano, Kazuo, 4,670,979, Cl. 29-838.000.
Boki Kabushiki Kaisha: *See*—
no, Hiroaki, 4,667,807, Cl. 198-412.000.
Yasuo: *See*—
aka, Shuntaro; and Murao, Yasuo, 4,656,144, Cl. 436-534.000.
, Hiroaki; Sasaki, Seishi; Takahashi, Ken; and Youda, Hiroshi, tsushita Electric Industrial Co., Ltd. Magnetic thin film head. 252, 10-13-87, Cl. 360-113.000.
, Kenichi; Setoguchi, Yoichi; Kawase, Tadamasa; Kawata, ru; Komatsu, Hisamoto; and Uchida, Makoto, to Yamanouchi aceutical Co., Ltd. Granular composition of difficult digestible ecarides. 4,707,376, 11-17-87, Cl. 426-658.000.
, Kimihiro, to Toyo Denki Seizo Kabushiki Kaisha. Static on thyristor with stepped-doping gate region. 4,654,579, 7, Cl. 357-22.000.
Muraoka, Koji; Maeda, Takeshi; Takasago, Masahiro; and Kaneda, Tokuya, to Hitachi, Ltd. Optical position detecting apparatus for positioning an actuator. 4,650,332, 3-17-87, Cl. 356-374.000.
Muraoka, Masami; Nakamura, Toshio; Sugie, Akihiko; Ono, Kenichi; and Yamamoto, Michihiro, to Sumitomo Chemical Company, Limited. Carbacyclin analogs. 4,680,307, 7-14-87, Cl. 514-460.000.
Muraoka, Takao, to Tokyo Shibaura Denki Kabushiki Kaisha. Magnetic disk loading/ejecting apparatus. 4,652,949, 3-24-87, Cl. 360-96.500.
Muraoka, Toshio: *See*—
Ichihara, Issey; and Muraoka, Toshio, 4,659,212, Cl. 355-15.000.
Murari, Bruno; Pasetti, Mauro; and Rossetti, Nazzareno, to SGS Microelettronica S.p.A. Monolithically integratable signal amplifier stage with high output dynamics. 4,714,897, 12-22-87, Cl. 330-288.000.
Murari, Bruno: *See*—
Siligoni, Marco; and Murari, Bruno, 4,661,780, Cl. 330-254.000.
Villa, Flavio; Murari, Bruno; Cini, Carlo; and Bertotti, Franco, 4,672,235, Cl. 307-255.000.
Villa, Flavio; Murari, Bruno; Bertotti, Franco; Torazzina, Aldo; and Stefani, Fabrizio, 4,682,197, Cl. 357-36.000.
Murasaki, Norio: *See*—
Tomibe, Shinji; and Murasaki, Norio, 4,670,189, Cl. 252-514.000.
Murasaki, Ryuichi, to Yoshida Kogyo, K. K. Mandrel for use with loom for forming loops of surface type fasteners. 4,706,715, 11-17-87, Cl. 139-46.000.
Murasaki, Ryuichi, to Yoshida Kogyo K. K. Apparatus for severing and joining joint piece. 4,715,926, 12-29-87, Cl. 156-511.000.
Murasaki, Takumi: *See*—
Inaba, Masatsugu; and Murasaki, Takumi, 4,634,629, Cl. 428-343.000.
Murasawa, Sadao; Murakami, Hajime; and Oka, Nobuharu, to Ishihara Sangyo Kaisha, Ltd.; and Dainippon Screen Mfg. Co., Ltd. Method of color electrophotography. 4,663,257, 5-5-87, Cl. 430-45.000.
Murasawa, Sadao: *See*—
Komatsubara, Shoji; Hatabe, Yukio; Horikawa, Tooru; Murasawa, Sadao; and Murakami, Hajime, 4,682,881, Cl. 355-10.000.
Murase, Heihachi; and Nanishi, Kiyoshi, to Kansai Paint Co., Ltd. Anti-icing compositions. 4,636,324, 1-13-87, Cl. 252-70.000.
Murase, Hisashi: *See*—
Tsuchiya, Hiroshi; Morio, Kazuhiko; Murase, Hisashi; and Ohkawa, Kazuo, 4,684,671, Cl. 522-31.000.
Murase, Kenji: *See*—
Makibayashi, Katsunori; Murase, Kenji; and Kunihiro, Motoo, 4,706,947, Cl. 267-140.100.
Murase, Kiyoshi: *See*—
Okita, Tsutomu; Naruo, Kyoichi; Tsuji, Nobuo; Nakagawa, Teruo; Murase, Kiyoshi; and Ogasawara, Takahisa, 4,657,817, Cl. 428-425.900.
Takayanagi, Takashi; Asao, Yasuzi; Fuchizawa, Tetsuro; Jitsumatsu, Tetusji; Murase, Kiyoshi; and Kato, Hiroyuki, 4,654,261, Cl. 428-336.000.
Murase, Masaaki, to Kawasaki Jukogyo Kabushiki Kaisha. System for discharging water from crank chamber. 4,676,759, 6-30-87, Cl. 440-88.000.
Murase, Masaaki, to Kawasaki Jukogyo Kabushiki Kaisha. System for discharging water from crank chamber. 4,678,441, 7-7-87, Cl. 440-88.000.
Murase, Masaaki, to Kawasaki Jukogyo Kabushiki Kaisha. Engine for small watercraft. 4,689,028, 8-25-87, Cl. 440-88.000.
Murase, Masao: *See*—
Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, 4,711,898, Cl. 514-312.000.
Murase, Mikio, to Osaka Trunk Material Co., Ltd. Lock for slide fastener. 4,691,540, 9-8-87, Cl. 70-68.000.
Murase, Shigemitsu, to Unitika Ltd. Finish composition for polyester fiber for rubber reinforcement. 4,637,957, 1-20-87, Cl. 428-395.000.
Murase, Takao: *See*—
Kato, Nobuhide; and Murase, Takao, 4,668,375, Cl. 204-426.000.
Murase, Takashi; and Koizumi, Tatsuya, to Furukawa Electric Co., Ltd., The; and Fuji Electric Co., Ltd. Heat pipe heat sink for semiconductor devices. 4,675,783, 6-23-87, Cl. 361-385.000.
Murase, Yoshihiko: *See*—
Sawada, Shuichi; and Murase, Yoshihiko, 4,649,791, Cl. 84-402.000.
Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, to Mitsubishi Rayon Co., Ltd. Sulfonated polyethyleneimine useful as blood anticoagulant. 4,639,339, 1-27-87, Cl. 260-513.600.
Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, to Mitsubishi Rayon Co., Ltd. Partial amine salts of EDTA as blood anticoagulant. 4,673,688, 6-16-87, Cl. 514-554.000.
Murasugi, Takashi; Suga, Masaaki; and Niikura, Yasuhiro, to Nissan Motor Co., Ltd. Slip control mechanism for friction clutch in torque converter of automatic power transmission. 4,640,395, 2-3-87, Cl. 192-3.310.
Murat, Michel: *See*—
Ambroise, Jean; Murat, Michel; and Pera, Jean, 4,689,084, Cl. 106-99.000.
Murata, Akira: *See*—
Satoh, Ryohei; Oshima, Muneo; Tanaka, Minoru; Sakaguchi, Suguru; Murata, Akira; and Hirota, Kazuo, 4,673,772, Cl. 174-52.0FP.
Murata, Chigaku: *See*—
Ito, Toshimitsu; and Murata, Chigaku, 4,696,278, Cl. 123-493.000.

Murata Erie North America, Ltd.: *See*—
Blamire, Michael F.; Briscoe, Peter F.; McLeod, Douglas D.; Doolittle, B. Kingsley; and Roach, Michael J., 4,673,900, Cl. 333-167.000.
Blamire, Michael F.; Briscoe, Peter F.; Bronson, A. Grant; and Doolittle, B. Kingsley, 4,700,156, Cl. 333-182.000.

Murata, Fumiya: *See*—
Sakoda, Kousuke; Kainaga, Masahiro; Akita, Hidehiko; Murata, Fumiya; and Nakaosa, Yoshitake, 4,692,896, Cl. 364-900.000.

Murata, Hideo; Yamauchi, Masaaki; and Tanaka, Hajime, to Kanebo Foods, Ltd. Process of shiitake (*lentinus edodes*) cultivation. 4,674,228, 6-23-87, Cl. 47-1.100.

Murata, Hiroshi, to Canon Kabushiki Kaisha. Plural mode language translator having formatting circuitry for arranging translated words in different orders. 4,644,492, 2-17-87, Cl. 364-900.000.

Murata, Hisashi: *See*—
Kawai, Koji; Murata, Hisashi; and Okamoto, Koichi, 4,685,272, Cl. 53-389.000.
Sumida, Shin; Murata, Hisashi; and Katsuyama, Yutaka, 4,659,215, Cl. 356-73.100.

Murata, Katsuaki: *See*—
Harada, Kosuke; Murata, Katsuaki; and Nakamizo, Takazi, 4,642,549, Cl. 323-210.000.

Murata, Kazushi; Takashima, Toshiharu; and Nakashima, Kunimichi, to Toyoda Koki Kabushiki Kaisha. Pallet changer. 4,637,108, 1-20-87, Cl. 29-33.00P.

Murata, Kazushi: *See*—
Ohta, Takeshi; Nakamura, Hiroshi; and Murata, Kazushi, 4,685,850, Cl. 414-225.000.

Murata, Kazushige: *See*—
Aoyama, Fumihiko; Murata, Kazushige; and Hayashi, Masahiro, 4,664,610, Cl. 425-84.000.

Murata, Kei: *See*—
Kawai, Noboru; Abe, Toshiro; and Murata, Kei, 4,655,876, Cl. 156-643.000.

Murata, Kenji: *See*—
Ogawa, Takashi; Shirogami, Tamotsu; and Murata, Kenji, 4,708,916, Cl. 429-38.000.

Murata Kikai Kabushiki Kaisha: *See*—
Fujiwara, Michiaki, 4,676,057, Cl. 57-265.000.
Fukunaga, Mitsuo, 4,641,493, Cl. 57-296.000.
Fukunaga, Mitsuo; and Inoue, Yoshihisa, 4,642,980, Cl. 57-58.860.
Ichiba, Yoshiyuki, 4,673,138, Cl. 242-35.50R.
Isao, Nagasawa, 4,669,942, Cl. 414-331.000.
Kato, Hisaaki, 4,674,274, Cl. 57-328.000.
Kawarabashi, Tsukasa, 4,660,367, Cl. 57-274.000.
Kikuchi, Shuichi; and Otoshima, Hiroo, 4,688,980, Cl. 414-414.000.
Konishi, Yuji; and Inoue, Tetsuo, 4,660,369, Cl. 57-281.000.
Maeda, Yoshiyasu, 4,644,620, Cl. 28-220.000.
Maekawa, Hiroshi, 4,664,590, Cl. 414-744.00R.
Maruki, Hirosige, 4,686,821, Cl. 57-22.000.
Matsui, Isamu; and Uchida, Hiroshi, 4,634,066, Cl. 242-35.50A.
Matsui, Isamu; Tone, Shoichi; and Ueda, Yutaka, 4,660,370, Cl. 57-281.000.
Matsui, Isamu; Uchida, Hiroshi; Otoshima, Hiroo; Kubota, Yasuhiko; and Masai, Tetsuji, 4,681,271, Cl. 242-18.00R.
Matsui, Isamu; Kimura, Hidetoshi; and Nakanishi, Kazuo, 4,683,713, Cl. 57-281.000.
Mima, Hiroshi, 4,671,053, Cl. 57-22.000.
Mima, Hiroshi, 4,703,651, Cl. 73-160.000.
Mori, Shigeki, 4,657,195, Cl. 242-43.00R.
Nakagawa, Osamu, 4,694,949, Cl. 198-351.000.
Nishimura, Yoshihiro, 4,676,055, Cl. 57-22.000.
Noda, Koshi, 4,642,978, Cl. 57-328.000.
Noshi, Shinji; and Okuyama, Yasuo, 4,703,900, Cl. 242-35.50R.
Otoshima, Hiroo, 4,660,780, Cl. 242-35.60E.
Sakai, Shoji; Noda, Koshi; Nakata, Kazuhiro; and Takashima, Shingo, 4,662,859, Cl. 464-88.000.
Sakai, Shoji; and Noda, Koshi, 4,691,415, Cl. 19-262.000.
Sawada, Morio, 4,686,813, Cl. 53-446.000.
Sekitani, Noboru; and Otoshima, Hiroo, 4,674,636, Cl. 209-600.000.
Shibazaki, Toshimi; and Nakayama, Teruo, 4,711,080, Cl. 57-207.000.
Shimano, Akira, 4,642,981, Cl. 57-414.000.
Shinji, Noshi; and Matsushima, Akio, 4,688,735, Cl. 242-35.50A.
Takada, Hiroshi, 4,685,492, Cl. 139-68.000.
Takada, Hiroshi, 4,687,029, Cl. 139-84.000.
Uchida, Hiroshi, 4,650,062, Cl. 198-468.200.
Uchida, Hiroshi; and Kikuchi, Shuichi, 4,674,940, Cl. 414-400.000.
Ueda, Yutaka; and Kitake, Masaharu, 4,681,231, Cl. 209-656.000.
Yamamoto, Yoshio, 4,676,061, Cl. 57-276.000.
Yoshimoto, Yoshio; Kondoh, Minoru; and Terada, Yoshiyuki, 4,703,240, Cl. 318-587.000.

Murata, Kiyoburni, to Toko, Inc. Delay line. 4,639,696, 1-27-87, Cl. 333-138.000.

Murata, Kiyohito, to Toyota Jidosha Kabushiki Kaisha. Electromagnetic powder clutch with two powder gaps. 4,682,676, 7-28-87, Cl. 192-21.500.

Murata, Kouji: *See*—
Honkura, Yoshinobu; Murata, Kouji; and Yokoyama, Takashi, 4,705,581, Cl. 148-307.000.
Honkura, Yoshinobu; Murata, Kouji; and Yokoyama, Takashi, 4,714,502, Cl. 148-307.000.

Murata Manufacturing Co., Ltd.: *See*—
Azuchi, Yukihiro, 4,649,459, Cl. 361-293.000.
Azuchi, Yukihiro, 4,657,719, Cl. 264-153.000.
Hattori, Jun; and Ishikawa, Youhei, 4,706,052, Cl. 333-219.000.
Higuchi, Yukio; and Katsube, Masayoshi, 4,665,041, Cl. 501-134.000.
Honda, Yukio, 4,702,370, Cl. 206-331.000.
Imamura, Eiji; Kumokawa, Takashi; Nakayama, Fumio; Manda, Haruhumi; Fukutani, Iwao; and Tomono, Kunisaburo, 4,698,605, Cl. 333-184.000.
Inoue, Jiro, 4,651,109, Cl. 329-117.000.
Inoue, Jiro; and Kota, Masaharu, 4,705,981, Cl. 310-324.000.
Inoue, Jiro, 4,716,377, Cl. 329-117.000.
Ishikawa, Youhei; Yorita, Tadahiro; and Yamashita, Sadao, 4,636,759, Cl. 333-223.000.
Kanai, Kazuhiko, 4,654,749, Cl. 361-321.000.
Kasanami, Toru; Tani, Hiroji; Watanabe, Shizuharu; and Ikeda, Toshiaki, 4,693,843, Cl. 252-518.000.
Kawabata, Toshio; and Tomono, Kunisaburo, 4,689,594, Cl. 336-200.000.
Kobayashi, Yoshio, 4,642,591, Cl. 333-227.000.
Kuze, Saburo; Kato, Yoshiharu; and Kojima, Shozo, 4,698,192, Cl. 264-101.000.
Maesaka, Michinobu; Watanabe, Koichi; and Murata, Michihiro, 4,683,639, Cl. 29-570.100.
Masuda, Noboru; Tomaki, Kenji; Oosawa, Tetsuo; and Murata, Michihiro, 4,692,619, Cl. 250-338.000.
Murata, Michihiro; Tanaka, Katsuhiko; and Seto, Hiroyuki, 4,691,104, Cl. 250-338.000.
Nakamura, Takeshi; Matsumoto, Ikuo; and Ando, Kenji, 4,649,310, Cl. 310-321.000.
Nakamura, Takeshi; Ando, Kenji; and Matsumoto, Ikuo, 4,651,042, Cl. 310-321.000.
Nakamura, Takeshi; and Matsumoto, Ikuo, 4,658,173, Cl. 310-321.000.
Nakamura, Takeshi; Nishiyama, Hiroshi; and Matsumoto, Ikuo, 4,697,116, Cl. 310-322.000.
Nakamura, Takeshi, 4,704,306, Cl. 427-100.000.
Nishikawa, Toshio; Ishikawa, Youhei; and Wada, Hidekazu, 4,639,699, Cl. 333-202.000.
Nishikawa, Toshio; and Yorita, Tadahiro, 4,703,291, Cl. 333-202.000.
Nishikawa, Toshio; and Tamura, Sadahiro, 4,713,632, Cl. 331-117.00D.
Nitta, Koichi; Kabuta, Kazuma; Yamaguchi, Masami; Nakagawa, Tadahiro; and Moriyasu, Katsuyuki, 4,664,943, Cl. 427-58.000.
Ogawa, Toshio; Fujishima, Satoru; and Ando, Akira, 4,649,313, Cl. 310-358.000.
Ogawa, Toshio, 4,710,311, Cl. 252-62.900.
Saito, Koji; and Okawa, Hiroshi, 4,713,633, Cl. 333-222.000.
Saito, Shigeki; Hosokawa, Takao; and Mae, Masataka, 4,708,885, Cl. 427-58.000.
Saito, Yasuaki, 4,636,752, Cl. 333-12.000.
Saito, Yasuaki; Harada, Tooru; and Fujino, Masato, 4,700,015, Cl. 174-50.000.
Sakabe, Yukio; Karaki, Shintaro; and Nakano, Kiyoshi, 4,652,967, Cl. 361-309.000.
Sakabe, Yukio, 4,658,328, Cl. 361-309.000.
Sakabe, Yukio; Nishioka, Goro; and Imanari, Junichi, 4,661,462, Cl. 501-134.000.
Sakamoto, Yukio, 4,663,694, Cl. 361-305.000.
Sakamoto, Yukio; and Madokoro, Shinichi, 4,675,629, Cl. 333-182.000.
Sakamoto, Yukio; Tanaka, Tetsuo; and Hori, Toshio, 4,700,135, Cl. 333-182.000.
Sakamoto, Yukio; Madokoro, Shinichi; and Okuyama, Shingo, 4,700,440, Cl. 29-25.420.
Takahashi, Hiroyuki; and Toyoshima, Isao, 4,703,218, Cl. 310-348.000.
Takeda, Tomoyuki; and Ito, Yoji, 4,673,902, Cl. 333-232.000.
Tanabe, Takeshi, 4,665,465, Cl. 361-306.000.
Tanaka, Yasuhiro, 4,641,055, Cl. 310-368.000.
Tanaka, Yasuhiro, 4,656,385, Cl. 310-348.000.
Tanaka, Yasuhiro, 4,695,756, Cl. 310-355.000.
Ueno, Michio; Miyagi, Toshimi; and Yamaguchi, Soji, 4,639,663, Cl. 323-356.000.
Wakino, Kikuo; Tamura, Hiroshi; and Ishikawa, Youhei, 4,692,727, Cl. 333-219.000.
Watanabe, Hiroyuki; and Masuda, Fumitoshi, 4,646,055, Cl. 338-162.000.
Watanabe, Koichi; and Maesaka, Michinoou, 4,697,224, Cl. 361-433.000.
Yorita, Tadahiro; Matsumoto, Haruo; and Nakatsuji, Isuo, 4,680,560, Cl. 333-206.000.
Yoshio, Arakawa, 4,691,266, Cl. 361-433.000.

Murata, Masae: *See*—
Kato, Shigeru; Osada, Naomi; Ichitoh, Toshikatsu; Murata, Masae; and Mochizuki, Masfumi, 4,641,151, Cl. 346-76.0PH.

Murata, Masayoshi: *See*—
Takaya, Takao; Murata, Masayoshi; and Ito, Kiyotaka, 4,649,142, Cl. 514-274.000.

Murata, Michihiro; Tanaka, Katsuhiko; and Seto, Hiroyuki, to Murata Manufacturing Co., Ltd. One-dimensional pyroelectric sensor array. 4,691,104, 9-1-87, Cl. 250-338.000.

Murata, Michihiro: *See*—
Maesaka, Michinobu; Watanabe, Koichi; and Murata, Michihiro, 4,683,639, Cl. 29-570.100.
Masuda, Noboru; Tomaki, Kenji; Oosawa, Tetsuo; and Murata, Michihiro, 4,692,619, Cl. 250-338.000.

a, Mineo: *See—*
hida, Kozaburo; Nagira, Norichika; Murata, Mineo; and Namba, Tadashige, 4,704,167, Cl. 148-153.000.
a, Mitsuhiro, to Citizen Watch Co., Ltd. Color liquid crystal lay apparatus with improved display color mixing. 4,642,628, 87, Cl. 340-784.000.
a, Mitsuhiro, to Citizen Watch Co., Ltd. Physical quantity indi- ng device by a pointer. 4,694,410, 9-15-87, Cl. 364-558.000.
a, Mitsuo: *See—*
atanabe, Yoshiaki; Yokoo, Chihiro; Goi, Masami; Onodera, Akira; Murata, Mitsuo; Fukushima, Hiroshi; and Sota, Kaoru, 4,699,981, Cl. 540-227.000.
a, Mitsuru: *See—*
ngiyama, Masahiko; Sutou, Masatune; Murata, Mitsuru; Ooki, Minoru; and Tagawa, Shigetaro, 4,636,154, Cl. 418-97.000.
a, Nobuyoshi; and Ogino, Toru, to Kawasaki Jukogyo Kabushiki sha. Balancing mechanism for reciprocating piston engine. 6,981, 4-14-87, Cl. 123-192.00B.
a, Perry L.: *See—*
rboli, Bruce; Murata, Perry L.; and Burmaster, Neal C., 4,710,360, Cl. 422-269.000.
a, Ryoji: *See—*
yasaka, Kaneyoshi; Sawai, Nobushige; and Murata, Ryoji, 4,701,224, Cl. 358-101.000.
a, Seiichiro; Tateishi, Masaru; Yoshioka, Toshio; Kamei, Sakito; azono, Hiroshi; and Yamawaki, Yoshiro, to Hitachi Zosen Cor- tion. Double hull ship without reinforcing transverse members een the inner and outer hull platings. 4,660,491, 4-28-87. Cl. 65.00R.
a, Seiichiro; Tateishi, Masaru; Hayakawa, Kohji; Sakamoto, shi; and Mukasa, Kohsuke, to Hitachi Zosen Corporation. Ship out transverse reinforcing members between the inner and outer plating. 4,674,430, 6-23-87, Cl. 114-355.000.
a, Shigeru: *See—*
yashi, Yasuyuki; Sadaka, Naoyuki; Murata, Shigeru; and Kawahara, Shuichi, 4,667,941, Cl. 267-64.160.
a, Shigeshi: *See—*
kuma, Tadashi; and Murata, Shigeshi, 4,672,551, Cl. 364-474.000.
a, Shigeto: *See—*
suhara, Yasunitro; Utamura, Motoaki; Kashiwai, Shinichi; Yokoyama, Iwao; Murata, Shigeto; Nakao, Toshitsugu; and Maeda, Yuichiro, 4,663,116, Cl. 376-377.000.
a, Shiro, and Hisatsune, Fumiyuki, to Mitsubishi Denki Kabushiki ha. Circuit breaker. 4,689,588, 8-25-87, Cl. 335-201.000.
a, Shiro: *See—*
shiyasu, Hajimu; Takahashi, Mitsugu; Hisatsune, Fumiyuki; and Murata, Shiro, 4,642,428, Cl. 200-144.00R.
a, Shuji: *See—*
ato, Kazufumi; Haze, Setsuo; Nobutugu, Hideo; Nakagawa, Yukio; Yamada, Seiji; and Murata, Shuji, 4,694,920, Cl. 177.25.000.
a, Shuji: *See—*
gabe, Ichita; Murata, Shuuji; and Yokoya, Yuji, 4,647,010, Cl. 251-129.120.
a, Susumu: *See—*
shihara, Takafumi; Fujiwara, Makoto; Kondo, Motoe; Miyawaki, Yoshiharu; Hanmyo, Masayuki; Kinoshita, Shinya; Matsui, Masao; Tamura, Konoshin; and Murata, Susumu, 4,671,752, Cl. 425-7.000.
a, Syuuji: *See—*
o, Hiroki; Sanada, Yukitomo; Yokoya, Yuji; Masaki, Kazuo; Nakagawa, Kiyohara; and Murata, Syuuji, 4,681,143, Cl. 137-625.370.
gabe, Ichita; Murata, Syuuji; and Yokoya, Yuji, 4,691,135, Cl. 310-254.000.
a, Tadahiko: *See—*
nda, Kunio; Saito, Satoshi; Habuto, Akinaka; Murata, Tadahiko; Otso, Hisayoshi; Joyama, Norio; and Fujimoto, Kazuhiro, 4,655,125, Cl. 99-355.000.
a, Takaaki, to Aso Pharmaceutical Co., Ltd. Small article holding ge. 4,666,040, 5-19-87, Cl. 206-441.000.
a, Takaaki, to ASO Pharmaceutical Co., Ltd. First-aid adhesive ge. 4,689,044, 8-25-87, Cl. 604-306.000.
a, Takahiko: *See—*
tsukake, Mitsuhiro; Murata, Takahiko; Saito, Gunji; Komat- uzaki, Takeshi; Uehara, Kuniaki; Kato, Toshinobu; Hattori, Takeo; and Hayashida, Morimasa, 4,711,077, Cl. 56-320.200.
a, Takeo: *See—*
hi, Michiharu; Furuta, Youichi; Tsubouchi, Kaoru; Murata, Takeo; Shibatani, Juichi; and Kiriyama, Takashi, 4,683,807, Cl. 2-169.000.
a, Taneo, to Alps Electric Co., Ltd. Pushbutton switch with aural rmation of operation. 4,642,433, 2-10-87, Cl. 200-308.000.
a, Tatsuo: *See—*
imura, Nobuyuki; Kamio, Masaru; Takao, Hideaki; Motoi, aiko; and Murata, Tatsuo, 4,712,874, Cl. 350-339.00F.
a, Tomohiro: *See—*
ayama, Masanori; Komoda, Norihisa; Murata, Tomohiro; and era, Kazuo, 4,638,227, Cl. 318-565.000.
a, Tomoji: *See—*
nazaki, Kenji; Irie, Yutaka; Ito, Masazumi; and Murata, Tomoji, 644,499, Cl. 364-900.000.
a, Toshiaki: *See—*
, Kiyoshi; and Murata, Toshiaki, 4,684,296, Cl. 406-153.000.
Murata, Toshinori; Nakagaki, Nobufumi; and Matono, Takaaki, to Hitachi, Ltd. Video signal processing circuits in television receivers. 4,677,485, 6-30-87, Cl. 358-160.000.
Murata, Toshinori: *See—*
Matono, Takaaki; Murata, Toshinori; Kurita, Toshiyuki; and Nakagawa, Isao, 4,707,732, Cl. 358-31.000.
Nakagaki, Nobuhumi; Murata, Toshinori; and Kurita, Toshiyuki, 4,684,985, Cl. 358-140.000.
Murata, Toyo-o; Narita, Hiroshi; Shigeyama, Yukinori; and Nishikawa, Mazumi, to Nippon Steel Corporation; and Kawasaki Jukogyo Kabushiki Kaisha. Apparatus for sealing the skirt of a converter waste gas recovery system. 4,688,772, 8-25-87, Cl. 266-158.000.
Murata, Toyo-o: *See—*
Yoshida, Toru; Murata, Toyo-o; and Suga, Noriaki, 4,669,706, Cl. 266-44.000.
Murata, Toyoji: *See—*
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,633,662, Cl. 57-286.000.
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,689,944, Cl. 57-260.000.
Murata, Tsuneo; Hirata, Yoshihiro; Miyagawa, Toshio; and Nishikawa, Fumikazu, to Tokyo Shibaura Denki Kabushiki Kaisha. Facsimile method and system for preventing the transmission of a document to the wrong destination. 4,670,791, 6-2-87, Cl. 358-256.000.
Murata, Yasushi: *See—*
Matsui, Fumio; and Murata, Yasushi, 4,683,562, Cl. 369-284.000.
Murata, Yasuto; Tezuka, Junichi; and Yamamoto, Kenji, to Electroplating Engineers of Japan, Limited. Partial plating device. 4,683,045, 7-28-87, Cl. 204-206.000.
Murata, Yasuto; Tezuka, Junichi; and Yamamoto, Kenji, to Electroplating Engineers of Japan, Limited. Plating device for minute portions of connector terminals. 4,702,811, 10-27-87, Cl. 204-206.000.
Murata, Yasuto: *See—*
Tezuka, Junichi; and Murata, Yasuto, 4,655,881, Cl. 204-15.000.
Murata, Yasuzo; and Sato, Hiroshi, to Pilot Man-Nen-Hitsu Kabushiki Kaisha. Magnetic display panel. 4,643,684, 2-17-87, Cl. 434-409.000.
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Murata, Yoshifumi: *See—*
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Murata, Yoshinori; and Tanita, Yoshio, to Mazda Motor Corporation. Rotor for rotary piston engines. 4,645,440, 2-24-87, Cl. 418-178.000.
Murata, Yoshishige: *See—*
Otsu, Takayuki; Murata, Yoshishige; and Amaya, Naoyuki, 4,670,520, Cl. 528-503.000.
Murata, Yoshitaka; Hatano, Tsuyoshi; and Ohkubo, Hideo, to Matsushita Electric Industrial Co., Ltd. Nozzle assembly for vacuum cleaner. 4,638,526, 1-27-87, Cl. 15-367.000.
Murata, Yukichi: *See—*
Niwa, Toshio; Murata, Yukichi; and Morishima, Takashi, 4,657,557, Cl. 8-471.000.
Murata, Yukio; and Suzuka, Masakazu, to Sumitomo Chemical Company, Limited. Method of estimating the result of coloration and of reproducing a given color. 4,635,213, 1-6-87, Cl. 364-526.000.
Muratake, Kiyoshi: *See—*
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Muratani, Takuzo: *See—*
Koga, Kenichiro; Yamazaki, Norikazu; and Muratani, Takuzo, 4,694,455, Cl. 371-37.000.
Murate, Shigenori; and Hattori, Yoshinori, to NGK Spark Plug Co., Ltd. Process of contouring the edges of a ceramic rotor. 4,689,921, 9-1-87, Cl. 51-317.000.
Murawski, Hans-Rudiger: *See—*
Deneke, Ulfert; Guthlein, Werner; Kuhr, Manfred; Merdes, Hartmut; Murawski, Hans-Rudiger; and Wielinger, Hans, 4,665,023, Cl. 435-28.000.
Murayama, Akira; Kuno, Hiroaki; Uchikawa, Naoshi; Tamura, Takahiro; Mizuno, Takao; Aiba, Kazumi; Ikeda, Mitsuo; and Fukatsu, Kiyoshi, to Hitachi, Ltd. Scroll-type fluid machine with configured wrap edges and grooves. 4,690,625, 9-1-87, Cl. 418-55.000.
Murayama, Akira: *See—*
Mizuno, Takao; Arata, Tetsuya; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuno, Hiroaki, 4,669,962, Cl. 418-55.000.
Mizuno, Takao; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuroshima, Ryuichi, 4,714,415, Cl. 418-14.000.
Shibayashi, Masao; and Murayama, Akira, 4,696,629, Cl. 418-55.000.
Murayama, Eigoro: *See—*
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Murayama, Hiroshi: *See—*
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Ookawa, Tomoyuki; and Murayama, Hiroshi, 4,644,491, Cl. 364-784.000.

Murayama, Jin; Kondo, Ryuji; Tamayama, Hiroshi; Yano, Takashi; and Shizukuishi, Makoto, to Fuji Photo Film Co., Ltd. Charge transfer type image pickup apparatus for producing field-interlaced video signals. 4,686,573, 8-11-87, Cl. 358-213.220.

Murayama, Jin: *See*—
Kondo, Ryuji; Murayama, Jin; Shizukuishi, Makoto; Tamayama, Hiroshi; and Yano, Takashi, 4,668,990, Cl. 358-213.230.
Suzuki, Kenji; Terashita, Takaaki; and Murayama, Jin, 4,710,803, Cl. 358-41.000.

Murayama, Katsutoshi: *See*—
Niwa, Kensuke; Fujita, Hisayoshi; Saito, Yoshihiko; Makihara, Hiroshi; Hashimoto, Ritsuo; Hoshi, Younosuke; and Murayama, Katsutoshi, 4,705,654, Cl. 261-128.000.

Murayama, Kazuo, to Sony Corporation. Combined detector circuit for detecting a tape end or unrecorded area of a tape. 4,636,878, 1-13-87, Cl. 360-71.000.

Murayama, Kenji: *See*—
Maki, Takao; Murayama, Kenji; and Asahi, Yoshio, 4,649,217, Cl. 562-528.000.

Murayama, Kimimasa; Ikawa, Shoji; and Kaneko, Shinobu, to Toyota Jidosha Kabushiki Kaisha. Thread rolling method. 4,633,696, 1-6-87, Cl. 72-88.000.

Murayama, Kimimasa: *See*—
Fukuma, Nobuo; Hasegawa, Hisayasu; Murayama, Kimimasa; Hayashi, Kunio; and Tokudome, Yoshihiro, 4,689,864, Cl. 29-157.10R.
Haga, Minoru; Kaneko, Shinobu, Ikawa, Shoji; Murayama, Kimimasa; Nakamura, Yasuhide; and Saito, Mitsuo, 4,691,551, Cl. 72-88.000.

Murayama, Koji: *See*—
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Murayama, Kunihiko: *See*—
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Murayama, Masakazu: *See*—
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Murayama, Masami: *See*—
Takahashi, Atsuhisa; Nara, Takashi; Murayama, Masami; and Takeichi, Hiroaki, 4,661,946, Cl. 370-58.000.

Murayama, Masatoshi: *See*—
Sugitani, Yuji; Kobayashi, Yukio; and Murayama, Masatoshi, 4,704,513, Cl. 219-125.120.

Murayama, Minoru: *See*—
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Hashimoto, Takeji; and Murayama, Minoru, 4,699,370, Cl. 271-98.000.

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Murayama, Naohiro: *See*—
Sakagami, Teruo; Fujii, Yasufumi; and Murayama, Naohiro, 4,644,025, Cl. 526-261.000.
Sakagami, Teruo; Arakawa, Noriyuki; and Murayama, Naohiro, 4,650,833, Cl. 525-356.000.
Sakagami, Teruo; Fujii, Yasufumi; and Murayama, Naohiro, 4,704,006, Cl. 350-409.000.
Teramoto, Yoshikichi; Nakamura, Kenichi; and Murayama, Naohiro, 4,687,803, Cl. 524-413.000.

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Ito, Masahiro; Murayama, Noboru; Suziku, Koichi; Sato, Kei; and Sato, Tsutomu, 4,698,778, Cl. 364-518.000.
Sato, Tsutomu; Murayama, Noboru; and Sato, Key, 4,694,353, Cl. 358-283.000.
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Murayama, Sadamitsu; and Tanaka, Makoto, to Teijin Limited. Chemical-resistant filter material. 4,679,221, 7-14-87, Cl. 428-246.000.

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Irikura, Tsutomu; Suzue, Seigo; Uchida, Hiroaki; Shinoda, Hirotaka; Murayama, Satoshi; and Kinoshita, Susumu, 4,649,198, Cl. 544-281.000.

Murayama, Seiichi; Tsuji, Kanji; and Yajima, Yusuke, to Hitachi, Ltd. Method of photochemical surface treatment. 4,678,536, 7-7-87, Cl. 156-635.000.

Murayama, Seiichi: *See*—
Kato, Yasuo; Ono, Tetsuo; Watanabe, Yoshio; Murayama, Seiichi; Mikoshiba, Shigeo; and Matsuno, Hiromitsu, 4,697,121, Cl. 313-595.000.
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Tsujii, Kanji; Yajima, Yusuke; and Murayama, Seiichi, 4,643,799, Cl. 156-635.000.
Yajima, Yusuke; Murayama, Seiichi; and Tsujii, Kanji, 4,653,908, Cl. 356-51.000.

Murayama, Seiji: *See*—
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Murayama, Tetsuo: *See*—
Suzuki, Tetsumi; Murayama, Tetsuo; Ono, Hitoshi; Otsuka, Shigenori; and Nozomi, Mamoru, 4,664,997, Cl. 430-58.000.

Murayama, Tomio: *See*—
Nakayama, Toshihiko; Moriguchi, Fujio; Murayama, Tomio; and Takeo, Yasuhiro, 4,638,329, Cl. 346-76.0PH.

Murayama, Toshiaki: *See*—
Kobayashi, Toshiaki; Sanada, Kazuo; Murayama, Toshiaki; Sugawara, Yasuyuki; Uesugi, Naoshi; and Ishihara, Koushi, 4,679,899, Cl. 350-96.300.

Murayama, Yasushi: *See*—
Hayashi, Kimiyoshi; Ohno, Akio; Hirooka, Kazuhiko; and Murayama, Yasushi, 4,697,915, Cl. 355-14.00D.

Murayama, Yo: *See*—
Yamada, Koji; Hashimoto, Tamotsu; Naruse, Masao; Murayama, Yo; and Niino, Hideki, 4,705,805, Cl. 514-548.000.

Murayama, Yoichi, to Kuraray Co., Ltd. Method for producing an optical recording medium by a chalcogenide suboxide. 4,645,685, 2-24-87, Cl. 427-39.000.

Murayama, Yoshihiro. Method of constructing floor for buildings or similar structures. 4,693,046, 9-15-87, Cl. 52-520.000.

Murayama, Yoshimasa: *See*—
Shiraki, Yasuhiro; Katayama, Yoshifumi; Murayama, Yoshimasa; Morioka, Makoto; Sawada, Yasushi; Mishima, Tomoyoshi; Kuroda, Takao; and Maruyama, Eiichi, 4,673,959, Cl. 357-22.000.

Murayoshi, Seiji, to Ricoh Company, Ltd. Automatic sheet feeding device. 4,674,737, 6-23-87, Cl. 271-124.000.

Murbach, Urs: *See*—
Kunz, Rino E.; Murbach, Urs; and Huber, Ernst, 4,675,500, Cl. 219-121.0LP.
Kunz, Rino F.; Junghans, Jurgen R.; Knus, Jean A.; Murbach, Urs; and Tuor, Marcel F., 4,713,537, Cl. 250-227.000.

Murch, Charles K.: *See*—
Eninger, James E.; Miller, Joseph; Murch, Charles K.; and Ginbey, Leland A., 4,651,834, Cl. 175-18.000.

Murchie, John R.: *See*—
Schad, Robert D.; Rees, Herbert; Hughes, Gary; and Murchie, John R., 4,690,633, Cl. 425-526.000.

Murchison, Charles W.: *See*—
Patrick, Keith H.; and Murchison, Charles W., 4,709,860, Cl. 239-654.000.

Murchison, Craig B.: *See*—
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Murdoch, James B.: *See*—
Kramer, David M.; Compton, Russell A.; Strenk, Lawrence M.; and Murdoch, James B., 4,695,800, Cl. 324-309.000.

Murdock, Bruce; and Teichmer, Daniel G., to Tektronix, Inc. Touch panel. 4,680,429, 7-14-87, Cl. 178-19.000.

Murdock, Bruce: *See*—
Boso, Brian; Beenen, Gerhard J.; and Murdock, Bruce, 4,685,185, Cl. 29-157.00C.
Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., 4,698,460, Cl. 178-19.000.
Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., 4,707,845, Cl. 178-19.000.
Meadows, Robert D.; Krein, Philip T.; and Murdock, Bruce, 4,698,461, Cl. 178-19.000.

Murdock, James H., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Current mode control arrangement with load dependent ramp signal added to sensed current waveform. 4,672,518, 6-9-87, Cl. 363-21.000.

Murdock, James R.: *See*—
Schinabeck, John; and Murdock, James R., 4,635,259, Cl. 371-20.000.
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Murdock, Keith C.; Damiani, Martin R.; and Durr, Frederick E., to American Cyanamid Company. Method of treating transplanted tumors and modulating the immune response. 4,696,935, 9-29-87, Cl. 514-297.000.

Murdock, Keith C.; and Webb, Richard L., to American Cyanamid Company. Process for preparing certain 1,4-di[ω-(2-hydroxyethylamino)alkylamino]anthraquinone free bases. 4,715,993, 12-29-87, Cl. 260-380.000.

Mure, Hiroshi; Mizoguchi, Ryohei; Yokoi, Shinichi; Fujihara, Shigeru; and Ichikawa, Kaoru, to Nippon Steel Corporation. Anode system for plasma heating usable in a tundish. 4,686,687, 8-11-87, Cl. 373-22.000.

Murex Corporation: *See*—
Hossom, Miles G., 4,693,834, Cl. 210-767.000.

Murguet, Denis: *See*—
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Muri, David L.: *See*—
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Murken, Joseph S., to Dayco Products, Inc. Hose construction, coupling arrangement therefor and method of making the same. 4,707,262, 11-17-87, Cl. 210-448.000.

Murkens, David. Cylindrical square. 4,680,869, 7-21-87, Cl. 33-533.000.

Murley, Jackie D., to Co-Ex Pipe Company, Inc. Method for handling and cooling injection molded polymeric articles. 4,636,341, 1-13-87, Cl. 264-37.000.

Murn, Victor A.: *See*—
Wrege, Richard A.; Chmiel, Steven F.; and Murn, Victor A., 4,670,697, Cl. 318-786.000.

Murner, Ulf, to Voith Turbo GmbH & Co. KG. Valve arrangement for controlling the flow of mediums. 4,641,683, 2-10-87, Cl. 137-487.500.

Murnick, Janet G.: *See*—
Meserol, Peter M.; Acker, Jesse L.; Murnick, Janet G.; and Pappas, Dean. 4,666,853, Cl. 435-290.000.

Muro, Hiroyuki: *See*—
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Muro, Shoujiro: *See*—
Hasegawa, Toshiharu; Shen, Zai-ming; Muro, Shoujiro; Masuyama, Shigeru; and Toyooka, Akihisa. 4,709,364, Cl. 370-85.000.

Muro, Yuhei: *See*—
Motegi, Nawoto; Okajima, Masaki; and Muro, Yuhei. 4,635,268, Cl. 372-45.000.

Murofushi, Satoru: *See*—
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Murofushi, Yoshinobu: *See*—
Kaneko, Masakatsu; Kimura, Misako; Murofushi, Yoshinobu; Yamazaki, Mitsuo; Iwata, Nobuyoshi; and Nakagawa, Fumio. 4,634,706, Cl. 514-262.000.

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Murot, Kunimasa, to Nippon Gakki Seizo Kabushiki Kaisha. Racket and weight attachment. 4,697,811, 10-6-87, Cl. 273-73.00C.

Muroi, Shiyouzi; and Taguchi, Katsuhiko, to Tokyo Juki Industrial Co., Ltd. Sewing machine. 4,649,843, 3-17-87, Cl. 112-270.000.

Murota, Seitsu: *See*—
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Murota, Syoji: *See*—
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Murotani, Yoshiharu: *See*—
Imaizumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko; Murotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka, Kiyoshi; Takano, Shuntaro; and Saikawa, Isamu. 4,656,287, Cl. 548-194.000.

Muroya, Hideki; and Sirakawa, Toraichi, to Hitachi, Ltd. Facsimile transceiver equipped with broadcasting feature. 4,652,934, 3-24-87, Cl. 358-260.000.

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Kawanabe, Tomohiko; Asakura, Masahiko; Shima, Takanori; Matsumoto, Yukihiro; and Muroya, Minoru. 4,690,121, Cl. 123-589.000.
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Muroya, Takashi, to Sun Carpet Company, Ltd. Apparatus and method for manufacturing embroidered carpets. 4,669,406, 6-2-87, Cl. 112-262.100.

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Murphey, Dennis D.: *See*—
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Murphey, Joseph R.; Totty, Kenneth D.; and Fulton, Susan V., to Halliburton Company. Method of preparation of variable permeability fill material for use in subterranean formations. 4,665,988, 5-19-87, Cl. 166-295.000.

Murphree, Gary R.: *See*—
Krivec, Bert; Murphree, Gary R.; and Evans, Walter R. 4,643,010, Cl. 70-272.000.

Murphree, Pat D. Guide means for stabilizing pipe strings. 4,643,624, 2-17-87, Cl. 414-22.000.

Murphy, Alan S., to International Business Machines Corp. Stylus or pen with tactile response to user. 4,667,182, 5-19-87, Cl. 340-407.000.

Murphy, Alan S.: *See*—
Cottrell, Roger L.; and Murphy, Alan S. 4,698,181, Cl. 364-521.000.

Murphy, Arthur J.; and Stratton, Joseph F. Check authorization system. 4,672,377, 6-9-87, Cl. 340-825.340.

Murphy, Bernard T.: *See*—
Lee, Charles M.; and Murphy, Bernard T. 4,639,615, Cl. 307-269.000.

Murphy, Betty J.: *See*—
Smith, James A.; and Murphy, Betty J. 4,690,821, Cl. 424-401.000.

Murphy, Brian R.: *See*—
Coggins, Leroy; Murphy, Brian R.; Holmes, Dorothy F.; Anguish, Lynne J.; and Gillespie, James H. 4,683,137, Cl. 424-89.000.

Murphy, Bruce D.: *See*—
Silversides, David W.; Mapletoft, Reuben J.; Murphy, Bruce D.; and Misra, Vikram. 4,676,981, Cl. 424-85.000.

Murphy, Carl D.; Keene, Donna L.; and Lindley, Daniel D., to Celanese Corporation. Process for purifying 4-hydroxyacetophenone. 4,663,485, 5-5-87, Cl. 568-319.000.

Murphy, Chester M., to Baker, Gerald G., a part interest. Ladder leveling apparatus. 4,683,983, 8-4-87, Cl. 182-204.000.

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Baker, Gerald G., 4,683,982, Cl. 182-204.000.

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Pillis, Joseph W.; Murphy, David A.; Spellar, Peter C.; and Nemit, Paul, Jr. 4,678,406, Cl. 417-310.000.

Murphy, Donald, to Piezo Electric Products, Inc. Acoustic pump. 4,684,328, 8-4-87, Cl. 417-322.000.

Murphy, Donald M.: *See*—
Bazan, Alberto; and Murphy, Donald M. 4,646,783, Cl. 137-533.110.
Bazan, Alberto; and Murphy, Donald M. 4,708,601, Cl. 417-393.000.

Murphy, Donald R.: *See*—
Carter, Robert E.; and Murphy, Donald R. 4,702,418, Cl. 239-101.000.

Murphy, Edmond J., to AT&T Bell Laboratories. Fiber-waveguide self alignment coupler. 4,639,074, 1-27-87, Cl. 350.96.150.

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Murphy, Edward P., to Graco Inc. Ball check valve. 4,700,741, 10-20-87, Cl. 137-543.190.

Murphy, F. Merrick: *See*—
Tripp, Jeff; Allan, John S.; and Murphy, F. Merrick. 4,665,788, Cl. 84-1.100.

Murphy, Frank H., to Dow Chemical Company, The. Process for producing 2,3,5,6-tetrachloropyridine. 4,703,123, 10-27-87, Cl. 546-345.000.

Murphy, Franklin J.: *See*—
Gonzalez, Avelino J.; Murphy, Franklin J.; Emery, Franklin T.; Weyant, Perry A.; and Craig, William G. 4,698,756, Cl. 364-557.000.

Murphy, Glenn L.; Borona, Russell T.; and Gelzheiser, Francis L., to Westinghouse Electric Corp. Molded-case circuit breaker with improved contact arm assembly, toggle link means and arc shield component. 4,713,640, 12-15-87, Cl. 335-194.000.

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Murphy, James L.: *See*—
Jones, Charles; Murphy, James L.; and Burks, Kenneth. 4,637,732, Cl. 368-109.000.

Murphy, James R., to Air Products and Chemicals, Inc. Three-phase reactor design and operation. 4,666,588, 5-19-87, Cl. 208-251.00H.

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Murphy, John F.: *See*—
Barton, William M., Jr.; Murphy, John F.; Offerman, Karl B.; and Fisher, Richard G. 4,677,508, Cl. 360-96.500.

Murphy, John J. Wall system construction, parts and methods of assembly. 4,672,787, 6-16-87, Cl. 52-409.000.

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Murphy, John R.: *See*—
Wittmann, Alois; Isaacs, Theodore M.; and Murphy, John R. 4,679,752, Cl. 244-158.00R.

Murphy, John W.: *See*—
Carpenter, Keith H.; Miller, Jon E.; and Murphy, John W. 4,642,502, Cl. 310-156.000.

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Bahr, Theodor; Thumm, Helmut; and Musselmann, Walter, 4,634,059, Cl. 241-46.00B.

Musselwhite, James, to FPT Industries Limited. Flotation devices for aircraft undercarriages. 4,676,461, 6-30-87, Cl. 244-107.000.

Musser, Arlene K.: *See*—
Cederberg, Barbara M.; and Musser, Arlene K., 4,656,114, Cl. 430-160.000.

Musser, Glenn A.: *See*—
Wynn, Edward J.; Musser, Glenn A.; and Halls, Lawrence M., 4,641,490, Cl. 56-10.200.

Musser, Harry R.: *See*—
Beavers, Randy S.; McFarlane, Finley E.; Musser, Harry R.; and Shepherd, Freddie A., 4,636,442, Cl. 428-480.000.
Beavers, Randy S.; McFarlane, Finley E.; and Musser, Harry R., 4,665,153, Cl. 528-173.000.

Musser, John H.; and Brown, Richard E., to USV Pharmaceutical Corp. Imidazo quinoline compounds useful as anti-allergy agents. 4,656,281, 4-7-87, Cl. 546-82.000.

Musser, John H.; Kubrak, Dennis M.; and Kreft, Anthony F., III, to American Home Products Corporation. Quinoline compounds as antiallergic and antithrombotic agents. 4,675,405, 6-23-87, Cl. 546-172.000.

Musser, John H.; and Bender, Reinhold H. W., to American Home Products Corporation. 5-[3-[[2-quinolyl]methoxy]phenyl]-1,3-oxazoles. 4,681,940, 7-21-87, Cl. 546-174.000.

Musser, John H.; and Brown, Richard E., to USV Pharmaceutical Corporation. Thiazolo[5,4-h]quinoline compounds useful as anti-allergy agents. 4,698,346, 10-6-87, Cl. 514-293.000.

Musser, John H.: *See*—
Jones, Howard; Magnien, Ernest; Musser, John H.; and Shaikh, Mujahid I., 4,666,909, Cl. 514-225.000.
Kreft, Anthony F., III; Pattison, Thomas W.; and Musser, John H., 4,642,347, Cl. 546-181.000.
Kreft, Anthony F., III; Musser, John H.; Pattison, Thomas W.; and Yardley, John P., 4,661,596, Cl. 546-152.000.

Musser, John J.: *See*—
Johnson, Steven L.; Adams, Martin E.; Leffingwell, James P.; Musser, John J.; Hedges, William H.; and Robberts, Thomas L., 4,669,242, Cl. 52-404.000.

Musset, Anthony: *See*—
Lee, Kon J.; Musset, Anthony; and Denton, Richard A., 4,652,795, Cl. 315-111.410.
Lee, Kon J.; and Musset, Anthony, 4,716,340, Cl. 315-111.410.

Mussi, Fiorenzo; and Pariani, Emilio, to Costruzioni Aeronautiche Giovanni Agusta S.p.A. Helicopter blade longitudinal member and relative manufacturing method. 4,650,534, 3-17-87, Cl. 156-245.000.

Mussig, Bernhard; Meyer, Rolf-Volker; and Brassat, Bert, to Bayer Aktiengesellschaft. Easily flowable, impact resistant polyamides. 4,677,156, 6-30-87, Cl. 525-425.000.

Mussig, Karl: *See*—
Bierbaum, Joe; Henze, Siegfried; Mussig, Karl; and Ziegler, Hans, 4,682,555, Cl. 112-262.100.

Mussini, Emilio: *See*—
Casagrande, Cesare; Mussini, Emilio; and Vecchietti, Vittorio, 4,644,004, Cl. 514-332.000.

Mussler, James M.; and Swartz, Mark E., to Westinghouse Electric Corp. Automatic touch screen calibration method. 4,710,758, 12-1-87, Cl. 340-712.000.

Musslyn, Eugene F.; and Kelkar, Anand, to Hughes Aircraft Company. Digital cathode current control loop. 4,687,970, 8-18-87, Cl. 315-106.000.

Mussman, Harry E.: *See*—
Davis, James A.; MacPherson, William F.; Mussman, Harry E.; and Shackle, Peter W., 4,656,366, Cl. 307-252.00A.

Mussmann, Sara M.; and Kidli, Roy E., to Emhart Industries, Inc. Polar fluid detection system unaffected by power line voltages. 4,682,157, 7-21-87, Cl. 340-605.000.

Mussner, Klaus: *See*—
Huber, Willi; and Mussner, Klaus, 4,651,932, Cl. 239-707.000.

Musso, Giorgio, to Elettronica San Giorgio-Elsag S.p.A. Image scanning process and unit for detecting set forms. 4,696,049, 9-22-87, Cl. 382-22.000.

Musso, Giorgio: *See*—
Filauro, Paolo; and Musso, Giorgio, 4,673,804, Cl. 235-463.000.

Musso, Pietro: *See*—
Valle, Franco; and Musso, Pietro, 4,637,744, Cl. 400-185.000.

Mussro, Nicholas J., Jr.: *See*—
King, Charles L.; Mussro, Nicholas J., Jr.; and Roberts, Dennis W., 4,666,763, Cl. 428-221.000.

Mustakallio, Kimmo K.; Sothmann, Gunnar A.; and Heikinheimo, Hanna-Maija, to Orion-yhtyma Oy. Pharmaceutical compositions for the treatment of skin. 4,699,929, 10-13-87, Cl. 514-680.000.

Mustarelli, Piercarlo; Lupoli, Franco; and Negri, Emilio, to Dataprocess S.p.A.; and Italora S.p.A. Mass transducer with electromagnetic compensation. 4,699,228, 10-13-87, Cl. 177-212.000.

Musteric, Joseph T.: *See*—
Gasowski, Chester J.; Loeffler, Ronald L.; Musteric, Joseph T.; Springford, Richard H.; and Toth, Robert L., Jr., 4,635,696, Cl. 152-528.000.

Mustikka, Lauri A.: *See*—
Honkaniemi, Matti E.; Mustikka, Lauri A.; Jankkila, Martti J.; Hokkanen, Pentti O.; Heikkila, Risto M.; and Lilja, Launo L., 4,705,474, Cl. 432-14.000.
Honkaniemi, Matti E.; Mustikka, Lauri A.; Jankkila, Martti J.; Hokkanen, Pentti O.; Heikkila, Risto M.; and Lilja, Launo L., 4,708,640, Cl. 432-14.000.

Musto, Joseph A.: *See*—
Meinhold, James F.; Musto, Joseph A.; Kramer, Karl C.; and Gottesman, Martin, deceased, 4,659,577, Cl. 426-387.000.

Musto, Richard L.; and Dunn, Mark R., to Combustion Engineering, Inc. Roller mill control system. 4,640,464, 2-3-87, Cl. 241-34.000.

Mustonen, Olavi M.: *See*—
Engstrom, Ulf F. I.; Allroth, Sven E.; and Mustonen, Olavi M., 4,702,772, Cl. 75-243.000.

Musumeci, Salvatore: *See*—
Bertotti, Franco; Ferla, Giuseppe; Musumeci, Salvatore; and Raciti, Salvatore, 4,641,171, Cl. 357-46.000.
Ferla, Giuseppe; and Musumeci, Salvatore, 4,667,393, Cl. 29-576.00B.

Muszik, Janos: *See*—
Schroer, Wolf-Dieter; Muszik, Janos; Cramm, Gunther; and Benn, Otto, 4,673,729, Cl. 528-397.000.

Muszkiewicz, Herbert: *See*—
Hotz, Rainer; and Muszkiewicz, Herbert, 4,661,243, Cl. 209-10.000.

Muta, Tadayoshi: *See*—
Suzuki, Masami; Yamaguchi, Kouki; Katayama, Hisato; Muta, Tadayoshi; Okubo, Masakuni; Mochizuki, Akira; and Adachi, Hiroshi, 4,699,640, Cl. 55-385.00A.

Muta, Tomonobu: *See*—
Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; Sasaki, Toshiki; and Nishio, Yoshihiro, 4,640,887, Cl. 430-275.000.
Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; and Sasaki, Toshiki, 4,684,601, Cl. 430-284.000.

Mutchler, Paul A., to Engineered Air Systems, Inc. Portable air heating apparatus. 4,691,687, 9-8-87, Cl. 126-104.00A.

Muterspaugh, Max W., to RCA Corporation. Constant bandwidth RF filter with improved low frequency attenuation. 4,646,360, 2-24-87, Cl. 455-195.000.

Muterspaugh, Max W., to RCA Corporation. Apparatus for reducing the effect of noise interference in audio companding system. 4,661,851, 4-28-87, Cl. 358-144.000.

Muterspaugh, Max W., to RCA Corporation. Dual gate tunable oscillator. 4,703,286, 10-27-87, Cl. 331-117.0FE.

Muterspaugh, Max W.: *See*—
Lagoni, William A.; Tamer, Gregory G.; Muterspaugh, Max W.; and Rindal, Abraham E., 4,660,088, Cl. 358-198.000.

Muth, David L.: *See—*
Sides, Richard J., Sr.; Crawford, Christopher L.; Nunweiler, Raymond J., Jr.; Muth, David L.; and Hope, George P., 4,643,493, Cl. 312-7.200.
Muth, William, to Clairson International. Rack support. 4,693,380, 9-15-87, Cl. 211-35.000.
Muthard, David A.: *See—*
DiNinno, Frank P.; Leanza, William J.; Ratcliffe, Ronald W.; and Muthard, David A., 4,675,317, Cl. 514-192.000.
Muthukrishnan, Ramaurthi: *See—*
Pasteris, Robert J.; and Muthukrishnan, Ramaurthi, 4,678,499, Cl. 71-90.000.
Muthuswami, Sirugamani V.: *See—*
Nirdosh, Inderjit; Baird, Malcolm H.; and Muthuswami, Sirugamani V., 4,654,200, Cl. 423-2.000.
Muthyala, Ramaiah: *See—*
Soderquist, Mark E.; Muthyala, Ramaiah; Larson, William A.; and Doty, Peter A., 4,640,786, Cl. 252-8.551.
Mutka, Jerry R.: *See—*
Miller, Dennis H., and Mutka, Jerry R., 4,707,367, Cl. 426-96.000.
Muto, Kazuhiko, to Canon Kabushiki Kaisha. Logarithmic compression circuit. 4,714,844, 12-22-87, Cl. 307-494.000.
Muto, Kenji; Sugaya, Toru; Kuroda, Tokuyuki; Hashimoto, Tamotsu; Yamada, Koji; Nakamizo, Nobuhiro; and Watanabe, Minoru, to Kyowa Hakko Kogyo Co., Ltd. 1-benzyl-3,5-dimethyl-4 pinerdyl ester of a Hantzsch dihydropyridine. 4,639,522, 1-27-87, Cl. 546-194.000.
Muto, Kentaro: *See—*
Akazawa, Hozumi; and Muto, Kentaro, 4,643,824, Cl. 210-167.000.
Muto, Kunio: *See—*
Terada, Kimio; Mori, Michio; Goto, Yoichi; Nakazawa, Takashi; Muto, Kunio; and Usami, Shozo, 4,637,937, Cl. 426-570.000.
Muto, Osamu; Masumura, Masanori; and Hori, Yoshiaki, to Honda Giken Kogyo Kabushiki Kaisha. Transmission with reverse mechanism. 4,713,979, 12-22-87, Cl. 74-337.500.
Muto, Rudolph, to Muto, Rudolph. Specimen collector. 4,685,472, 8-11-87, Cl. 128-760.000.
Muto, Sadanari: *See—*
Matsuo, Junichi; and Muto, Sadanari, 4,664,520, Cl. 356-237.000.
Muto, Shigeaki; Ando, Takao; Fuji, Takayoshi; Kanno, Akihiko; Onishi, Yoko; Motokawa, Isamu; Furusho, Takao; and Yoshikumi, Chikao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Pivaloyloxymethyl 7-β-[2-(2-amino-4-thiazolyl)-2-methoxyiminoacetamido]-3-(2-amino-1,3-thiadiazolyl-5-thiomethyl)-3-cepheme-4-carboxylate and pharmaceutical composition containing the same. 4,681,877, 7-21-87, Cl. 514-206.000.
Muto, Shigeaki: *See—*
Kanno, Akihiko; Muto, Shigeaki; Nimura, Koichi; Ando, Takao; Fuji, Takayoshi; Fuji, Masahiko; Furusho, Takao; and Yoshikumi, Chikao, 4,690,920, Cl. 514-201.000.
Muto, Shoji: *See—*
Masuda, Tsugunori; and Muto, Shoji, 4,682,563, Cl. 118-503.000.
Muto, Takashi, to Daido Metal Company Ltd. Method of producing sliding composite material. 4,680,161, 7-14-87, Cl. 419-3.000.
Muto, Yoshihiko; Ohashi, Toshio; and Adachi, Tsunenari, to Nissan Motor Co., Ltd.; and Nihon Radiator Co., Ltd. Heater unit for vehicles. 4,691,862, 9-8-87, Cl. 237-12.30A.
Muto, Yoshihiro: *See—*
Mizukado, Masayoshi; Morishita, Akio; and Muto, Yoshihiro, 4,640,166, Cl. 83-552.000.
Muto, Yoshiyuki; Etani, Tadao; Aida, Satoru; and Kato, Shinya, to Sanjo Machine Works, Ltd.; and Japan Tobacco Inc. Apparatus for continuously supplying sheets from supply rolls. 4,695,007, 9-22-87, Cl. 242-58.400.
Muto, Yuhei: *See—*
Okajima, Masaki; Motegi, Nawoto; and Muto, Yuhei, 4,647,953, Cl. 357-17.000.
Mutoh Industry Ltd.: *See—*
Kajikawa, Osamu; and Toyama, Akio, 4,654,675, Cl. 346-134.000.
Toyama, Akio; Matsumoto, Shuso; and Tada, Kazunori, 4,646,109, Cl. 346-134.000.
Mutoh, Masayuki; and Kamiyama, Shinji, to Minolta Camera Kabushiki Kaisha. Tone reproducible ink jet printer. 4,673,951, 6-16-87, Cl. 346-75.000.
Mutoh, Nobuyoshi; Sakai, Keijiro; Suzuki, Toshio; Ueda, Akiteru; Sandoh, Kenji; and Okajima, Ikuo, to Hitachi, Ltd. Rectifier control apparatus with improved power factor. 4,688,162, 8-18-87, Cl. 363-80.000.
Mutoh, Yoshihiko; and Miura, Morikazu, to Asahi Kasei Kogyo Kabushiki Kaisha. Porous fluorine resin membrane and process for preparing the same. 4,702,836, 10-27-87, Cl. 210-500.230.
Mutoh, Yoshiyuki, to Japan Tobacco Inc. Apparatus for forming a tab on a tape for tearing a packing film. 4,676,047, 6-30-87, Cl. 53-133.000.
Muth, Yoshiyuki: *See—*
Nagata, Tomizou; Mutoh, Yoshiyuki; and Kobayashi, Kazutaka, 4,711,339, Cl. 198-419.000.
Muthall, Hugo: *See—*
Becke, Heinz; and Mutschall, Hugo, 4,678,074, Cl. 198-457.000.
Becke, Heinz; and Mutschall, Hugo, 4,678,901, Cl. 250-223.00R.
Becke, Heinz; and Mutschall, Hugo, 4,708,704, Cl. 493-151.000.
Muthler, Carl E.; and Warner, Mark E., to SmithKline Beckman Corporation. Pattern recognition system with working area detector. 4,702,595, 10-27-87, Cl. 356-39.000.
Muthler, Edward C., Jr.: *See—*
Deschinger, Gilbert M.; Mutschler, Edward C., Jr.; and Behun, Eugene, 4,682,183, Cl. 346-75.000.
Mutschler, Otto; and Menrath, Albert. Writing implement venting system. 4,645,367, 2-24-87, Cl. 401-199.000.
Mutsers, Stanislaus M. P.; Willems, Michael H.; and Wolvers, Wilhelmus P., to Stamicarbon B.V. Process for preparing purified, virtually odorless solid benzoic acid. 4,675,440, 6-23-87, Cl. 562-494.000.
Mutsers, Stanislaus M. P.; and Craenen, Gerardus S. P. M., to Stamicarbon B.V. Process for the preparation of granules. 4,701,353, 10-20-87, Cl. 427-213.000.
Mutter, Heinz; Sommer, Hans-Jorg; Graf, Felix; and Wirz, Armin, to Rieter Machine Works, Ltd. Package quality monitor. 4,677,387, 6-30-87, Cl. 324-454.000.
Mutter, Heinz: *See—*
Graf, Felix; Wirz, Armin; and Mutter, Heinz, 4,650,132, Cl. 242-18.0DD.
Sommer, Hans-Jorg; Mutter, Heinz; Wirz, Armin; and Graf, Felix, 4,713,655, Cl. 340-677.000.
Mutton, Jon C.: *See—*
Unger, Peter J.; and Mutton, Jon C., 4,694,379, Cl. 367-419.000.
Mutz, Bernd: *See—*
Muller, Klaus; Mutz, Bernd; and Daler, Helmo, 4,714,392, Cl. 411-175.000.
Mutz, Dieter: *See—*
Angerstein, Jorg; Mutz, Dieter; and Wagner, Elmar, 4,697,880, Cl. 350-247.000.
Mutz, Gerhard. Tachograph for motor vehicles. 4,644,368, 2-17-87, Cl. 346-33.00D.
Mutzabaugh, Dennis M.: *See—*
Citta, Richard W.; Mutzabaugh, Dennis M.; and Sgrignoli, Gary J., 4,706,283, Cl. 380-12.000.
Citta, Richard W.; Mutzabaugh, Dennis M.; and Sgrignoli, Gary J., 4,706,284, Cl. 380-12.000.
Muuttonen, Timo: *See—*
Salmi, Pekka; and Muuttonen, Timo, 4,702,326, Cl. 173-104.000.
Muz, Edwin, to Nicolay GmbH. Electrical connector and process for its manufacture. 4,647,138, 3-3-87, Cl. 339-147.00P.
Muz, Edwin, to Nicolay GmbH. Cable support with tines. 4,660,790, 4-28-87, Cl. 248-68.100.
Muzard, Georges: *See—*
Raux, Jacques; and Muzard, Georges, 4,703,988, Cl. 439-321.000.
Muzeroll, Martin E.: *See—*
Lekebusch, Ronald C.; O'Neil, John T., Jr.; and Muzeroll, Martin E., 4,687,453, Cl. 445-4.000.
Muzik, Gregory A., to Outboard Marine Corporation. Apparatus for rotatably supporting a marine propeller in a vibrating media. 4,706,414, 11-17-87, Cl. 51-7.000.
Muzsai, Istvan: *See—*
Czvikovszky, Tibor; Kovacs, Gabor; Lakner, Endre; Mahr, Lajos; Somogyi, Agnes; Mikes, Sandor; Kegly, Gyorgy; Muzsai, Istvan; Palotas, Laszlo; and Pfisztner, Nandor, 4,706,711, Cl. 138-103.000.
Muzslay, Steven Z., to ITT Corporation. Environmentally sealed connector. 4,639,061, 1-27-87, Cl. 339-59.00M.
Muzzarelli, Gabriele. Method for cheese compacting. 4,645,680, 2-24-87, Cl. 426-582.000.
Muzzarelli, Gabriele. Plant for producing plastic curd cheeses. 4,669,254, 6-2-87, Cl. 53-518.000.
MVM Valve Co., Inc.: *See—*
Kanarvogel, Leon, 4,634,027, Cl. 222-380.000.
MWA Company: *See—*
Rugh, Clyde J.; King, John L., Jr.; Tuttle, Francis M.; and Jones, William E., 4,660,404, Cl. 72-446.000.
Rugh, Clyde J.; King, John L., Jr.; Tuttle, Francis M.; and Jones, William E., 4,660,406, Cl. 72-448.000.
MWB Messwandler-Bau AG: *See—*
Graul, Otto, 4,653,178, Cl. 29-605.000.
Graul, Otto; and Oppelt, Herbert, 4,697,752, Cl. 242-7.110.
Oppelt, Herbert; and Lechner, Rufolf, 4,700,905, Cl. 242-67.10R.
Preissinger, Norbert; and Bogdan, Teofil, 4,701,738, Cl. 336-92.000.
MWL Tool Company: *See—*
Allwin, Roger P.; and Budke, Mark, 4,651,159, Cl. 166-124.000.
Lindsey, Hiram E., Jr.; and Dockins, Ray F., Jr., 4,671,358, Cl. 166-291.000.
MxDonnell Douglas Corporation: *See—*
Bhatt, Dhananjay D., 4,658,362, Cl. 364-472.00.
Myatt, David: *See—*
Dosjoub, Andre; and Myatt, David, 4,703,650, Cl. 73-146.500.
Mybeck, Jessica F. Laboratory device. 4,655,163, 4-23-87, Cl. 422-100.000.
Mycalex (Motors) Ltd.: *See—*
Ransom, Keith C.; and Howitt, Henry G., 4,678,007, Cl. 137-625.660.
Mychajlowskij, Walter: *See—*
Ong, Beng S.; and Mychajlowskij, Walter, 4,645,727, Cl. 430-106.000.
Mycogen Corporation: *See—*
Barnes, Andrew C.; and Cummings, Susan G., 4,695,455, Cl. 424-93.000.
Barnes, Andrew C.; and Cummings, Susan G., 4,695,462, Cl. 424-195.100.
Cardina, John; Littrell, Robert H.; and Stowell, Larry J., 4,643,756, Cl. 71-79.000.
Mycro Group Co.: *See—*
Gordin, Myron K.; and Drost, James L., 4,712,167, Cl. 362-233.000.
Mycynek, Victor G., to Zenith Electronics Corporation. Method and apparatus for volume control of a BTSC multi-channel sound signal 4,654,707, 3-31-87, Cl. 358-144.000.

Mydata AB: *See*—
Stridsberg, Gustaf L., 4,660,981, Cl. 356-375.000.
Mydata Automation AB: *See*—
Stridsberg, Lennart; and Rodin, Gunnar, 4,638,232, Cl. 318-640.000.
Stridsberg, Lennart; and Rodin, Gunnar, 4,670,976, Cl. 29-740.000.
Mydax, Inc.: *See*—
Lowes, Albert R., 4,637,454, Cl. 165-36.000.
Mydock, Donald R.: *See*—
Bush, J. Finley; and Mydock, Donald R., 4,686,198, Cl. 502-25.000.
Myer, Jon H., to Hughes Aircraft Company. Multiple reflector system with dielectric support webs and foam body. 4,636,801, 1-13-87, Cl. 343-781.0CA.
Myer, Jon H., to Hughes Aircraft Company. Method of assembling extreme pressure belted structures. 4,654,951, 4-7-87, Cl. 29-453.000.
Myer, Jon H., to Hughes Aircraft Company. Miniature window. 4,669,818, 6-2-87, Cl. 350-96.200.
Myer, Robert E., to AT&T Bell Laboratories. Telescopic antenna extended by coaxial cable feed. 4,647,941, 3-3-87, Cl. 343-792.000.
Myer, Robert E., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Telescoping multiband antenna. 4,658,260, 4-14-87, Cl. 343-792.000.
Myerly, Richard C.: *See*—
Simroth, Donald W.; Critchfield, Frank E.; and Myerly, Richard C., 4,652,589, Cl. 521-137.000.
Myers, Austin. Apparatus and method permitting non-intrusive observation of encased indicators. 4,669,822, 6-2-87, Cl. 350-114.000.
Myers, Carl J., to Warner & Swasey Company, The. Machine tool. 4,685,361, 8-11-87, Cl. 82-2.00R.
Myers, Charles L.: *See*—
Miller, Curtis M.; Myers, Charles L.; and Parsons, Charles F., 4,634,732, Cl. 524-504.000.
Myers, Charles M., to Eaton Corporation. Dual station printer mechanism. 4,639,154, 1-27-87, Cl. 400-584.000.
Myers, Charley: *See*—
Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, 4,663,710, Cl. 364-400.000.
Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, 4,672,540, Cl. 364-400.000.
Myers, Clyde J.: *See*—
Cannon, Thomas C., Jr.; Carlisle, Arthur W.; Darden, Bruce V.; and Myers, Clyde J., 4,634,214, Cl. 350-96.200.
Myers, Daniel C., to Beith, William. Audio reverberator. 4,653,101, 3-24-87, Cl. 381-64.000.
Myers, Daniel N.: *See*—
Cetinkaya, Ismail B.; and Myers, Daniel N., 4,710,357, Cl. 422-144.000.
Myers, Daniel O.; and Baskin, Mark E., to ACC Automation, Inc. Apparatus for seaming glass. 4,658,550, 4-21-87, Cl. 51-165.720.
Myers, Daryl L., to American Telephone and Telegraph Company AT&T Technologies, Inc. Spool for holding optical fiber. 4,696,438, 9-29-87, Cl. 242-118.410.
Myers, David A.: *See*—
Ames, Kenneth R.; Doesburg, James M.; Eschbach, Eugene A.; Kelley, Roy C.; and Myers, David A., 4,669,536, Cl. 166-68.000.
Myers, Donald W.; and O'Brien, Dennis, to Mobil Oil Corporation. Process for preparing smooth skinned extruded foams with water-organic blowing agent. 4,657,715, 4-14-87, Cl. 264-45.500.
Myers, Drewfus Y., Jr.; Alexandrovich, Peter S.; Pearce, Glenn T.; Santilli, Domenic; Sreekumar, Chandrasekha; Berwick, Martin A.; Upson, Donald A.; and Goebel, William K., to Eastman Kodak Company. Crosslinked vinyl polymer particles and electrographic elements and liquid developers containing such particles. 4,708,923, 11-24-87, Cl. 430-112.000.
Myers, Earl C.; Shirk, Michael E.; and Waters, Mark H., to AMP Incorporated. Hermaphroditic shield for line terminator. 4,689,723, 8-25-87, Cl. 361-424.000.
Myers, George D., deceased (by Myers, Virginia K., administratrix), to Ashland Oil, Inc. Carbo-metallic oil conversion. 4,708,785, 11-24-87, Cl. 208-113.000.
Myers, H. Allen, to Sundstrand Corporation. Automatic travel speed control for a harvesting machine. 4,704,866, 11-10-87, Cl. 60-449.000.
Myers, Harry K., Jr.: *See*—
Duggan, D. Michael; Myers, Harry K., Jr.; and Lyons, James E., 4,652,542, Cl. 502-154.000.
Duggan, D. Michael; Myers, Harry K., Jr.; and Lyons, James E., 4,663,489, Cl. 568-678.000.
Duggan, D. Michael; Lyons, James E.; and Myers, Harry K., Jr., 4,692,426, Cl. 502-154.000.
Myers, James G.: *See*—
Buczek, Carl J.; and Myers, James G., 4,662,722, Cl. 350-395.000.
Myers, Janice L. Neck and face shield especially adapted to be worn under a hair dryer. 4,704,744, 11-10-87, Cl. 2-174.000.
Myers, Jay E.; Myers, M. Todd; and Iravantchi, Siamak, to Andiamo Inc. Method and means for sealing a carrying case. 4,712,657, 12-15-87, Cl. 190-28.000.
Myers, Jerome J., to Sheet Metal Connectors, Inc. Damper construction. 4,715,581, 12-29-87, Cl. 251-308.000.
Myers, John C.: *See*—
Itzov, Andrew L.; and Myers, John C., 4,655,649, Cl. 408-136.000.
Myers, John P.: *See*—
Huhndorff, Harry R.; and Myers, John P., 4,690,879, Cl. 429-61.000.
Myers, John W.: *See*—
Gardner, Lloyd E.; Hogan, Robert J.; Sughrue, Edward L., II; and Myers, John W., 4,657,663, Cl. 208-210.000.
Myers-Keith, Paula, to International Minerals & Chemical Corp. Method for increasing fertility in animals by controlling and stimulating ovulation. 4,707,492, 11-17-87, Cl. 514-450.000.
Myers, Lawrence R., to Allied Corporation. Control valve. 4,649,802, 3-17-87, Cl. 91-376.00R.
Myers, Lawrence R., to Allied Corporation. Reaction mechanism for brake booster. 4,672,883, 6-16-87, Cl. 91-369.00A.
Myers, Lawrence R.; Bach, Lloyd G.; and Gaiser, Robert F., to Allied Corporation. Deceleration and pressure sensitive proportioning valve with low deceleration responsiveness. 4,679,864, 7-14-87, Cl. 303-6.00C.
Myers, Lawrence R.; and Gaiser, Robert F., to Allied Corporation. Threaded sleeve member for connecting master cylinder to vacuum booster. 4,685,299, 8-11-87, Cl. 60-547.100.
Myers, M. Todd: *See*—
Myers, Jay E.; Myers, M. Todd; and Iravantchi, Siamak, 4,712,657, Cl. 190-28.000.
Myers, Martin G.; and Barrett, William A., to Allied Corporation. Method for manufacturing a center electrode for a spark plug. 4,705,486, 11-10-87, Cl. 445-17.000.
Myers, Michael O., to Dow Chemical Company, The. Process for preparing poly (alkylene carbonates). 4,686,276, 8-11-87, Cl. 528-371.000.
Myers, Nancy E.; Gamblin, Rodger L.; and Sugg, David J., to Burlington Industries, Inc. Commercial nickel phosphorus electroplating. 4,673,468, 6-16-87, Cl. 204-24.000.
Myers, Paul: *See*—
Faber, Joseph; and Myers, Paul, 4,697,680, Cl. 192-86.000.
Myers, Peter L.; and Floyd, Chris D., to G. D. Searle & Co. Substituted alkyl imidazole derivatives. 4,661,602, 4-28-87, Cl. 548-336.000.
Myers, Philip F.; Strickler, Roger A.; and Warmuth, Ivan J., II, to Goodyear Tire & Rubber Company, The. Vehicle air suspension. 4,635,745, 1-13-87, Cl. 280-708.000.
Myers, Robert H. Mobile camping apparatus. 4,653,800, 3-31-87, Cl. 296-160.000.
Myers, Ronald D.; and Greebe, Frans, to Exxon Production Research Company. Method of reducing permeability in subterranean formation by use of alkali metal silicate foam. 4,676,318, 6-30-87, Cl. 166-293.000.
Myers, Ronald E.; and Buhks, Ephraim, to B. F. Goodrich Company, The. Electrodeless heterogeneous polypyrrole composite. 4,680,236, 7-14-87, Cl. 428-515.000.
Myers, Ronald V.: *See*—
Clinton, Peter; Myers, Ronald V.; and Sinclair, David, 4,679,433, Cl. 73-304.00C.
Myers, Timothy S.: *See*—
McFalls, Bob L.; Myers, Timothy S.; and Fudala, Chester, 4,685,735, Cl. 297-362.000.
Myers, Virginia K., administratrix: *See*—
Myers, George D., deceased, 4,708,785, Cl. 208-113.000.
Myers, Walter L.: *See*—
Lewis, Billy M.; and Myers, Walter L., 4,645,039, Cl. 188-72.300.
Myers, William D. Scleral dissector. 4,682,597, 7-28-87, Cl. 128-305.000.
Myers, William N.; Hein, Leopold A., deceased; and Hein, Birgit G., executor, to United States of America, National Aeronautics and Space Administration. Tube coupling device. 4,655,482, 4-7-87, Cl. 285-81.000.
Myers, William P., to Litton Systems, Inc. Fluidic oxygen sensor monitor. 4,709,575, 12-1-87, Cl. 73-23.000.
Myerson, Allan S.; and Ernst, William R., to Georgia Tech Research Corporation. Regeneration of HDS catalysts. 4,698,321, 10-6-87, Cl. 502-25.000.
Myerson, Joel: *See*—
Bente, H. Bryan; Herman, Alan C.; Myerson, Joel; Shaw, Benjamin G.; and Stefanski, Andrew, 4,714,545, Cl. 210-101.000.
Myhrman, Soren, to Surtevall Trading AB. Device for locking an object against a stop on a shaft, bar or the like. 4,646,398, 3-3-87, Cl. 24-522.000.
Mykietyn, Edward: *See*—
Thaler, Barry J.; Mykietyn, Edward; and Young, James R., 4,675,639, Cl. 336-185.000.
Mykkanen, C. Fred, to Honeywell Inc. Hand tool. 4,649,634, 3-17-87, Cl. 29-751.000.
Mykleby, Laurie G., to CVP Systems, Inc. Sterilization package. 4,660,721, 4-28-87, Cl. 206-439.000.
Myllarinen, Juha: *See*—
Hood, Oliver S.; McGrath, Brendan; and Myllarinen, Juha, 4,676,559, Cl. 312-39.000.
Myllyla, Risto: *See*—
Ahola, Raimo; and Myllyla, Risto, 4,637,727, Cl. 356-373.000.
Myllylla, Risto; Kopola, Harri; Kostamovaara, Juha; and Ahola, Raimo, to Noptel Ky. Optoelectronic target practice apparatus. 4,640,514, 2-3-87, Cl. 273-310.000.
Mylonakis, Stamatios G.: *See*—
Giori, Claudio; and Mylonakis, Stamatios G., 4,703,083, Cl. 525-87.000.
Giori, Claudio; and Mylonakis, Stamatios G., 4,703,084, Cl. 525-87.000.
Mylrea, William J.; and Thompson, Gerald C., to Master Conveyor Corporation. Palletizing apparatus. 4,708,564, 11-24-87, Cl. 414-36.000.
Mynderse, Jon S.; and Fukuda, David S., to Eli Lilly and Company. Octahydroindolizinepropanoic acids and related compounds as enzyme inhibitors. 4,675,408, 6-23-87, Cl. 546-138.000.

Mynott, Ralph; and Verbeek, Johan, to Volvo Car B.V. Frameless turn-up rear window for vehicles. 4,715,647, 12-29-87, Cl. 296-152.000.

Mynuddin, Mohammed K.: *See*—
Arciero, Carlo; and Mynuddin, Mohammed K., 4,643,269, Cl. 180-141.000.

Myochin, Hisashi: *See*—
Oda, Masataka; Yoshiyama, Tsugihito; Myochin, Hisashi; and Matsushita, Kouji, 4,688,927, Cl. 355-3.0TR.

Myohl, Jochim: *See*—
Goldbach, Manfred; Marquardt, Siegfrid; and Myohl, Jochim, 4,693,262, Cl. 131-84.300.
Marquardt, Siegfrid; Myohl, Jochim; and Goldbach, Manfred, 4,703,764, Cl. 131-84.400.

Myoi, Tetsuo: *See*—
Morino, Masuaki; Fujikawa, Yoshiyuki; Haneda, Isamu; and Myoi, Tetsuo, 4,636,970, Cl. 264-706.000.

Myojo, Seiji, to Shimano Industrial Company Limited. Fishing rod. 4,649,661, 3-17-87, Cl. 43-18.100.

Myokan, Isao: *See*—
Hori, Takako; Myokan, Isao; and Miyabara, Shinji, 4,684,631, Cl. 514-51.000.

Myotoku Ltd.: *See*—
Ise, Yoji, 4,655,692, Cl. 417-187.000.
Ise, Yoji; Kanno, Teruo; and Yamaguchi, Akira, 4,687,021, Cl. 137-526.000.
Kato, Minoru, 4,690,594, Cl. 408-159.000.

Myotte, Albert J. Tool accessory. 4,676,465, 6-30-87, Cl. 248-126.000.

Myrick, Paul: *See*—
Stokes, Robert L.; and Myrick, Paul, 4,703,804, Cl. 166-311.000.

Myron International, Inc.: *See*—
Sigler, Roger M.; and Sigler, Timothy J., 4,654,007, Cl. 433-126.000.

Mysicka, James C.: *See*—
Nawrot, Thomas L.; Vancha, John; and Mysicka, James C., 4,686,352, Cl. 219-250.000.

Myson Heating Limited: *See*—
Halstead, Christopher, 4,690,129, Cl. 126-85.00B.

Myster, Lloyd S.: *See*—
McMurtry, Ronald V., 4,685,443, Cl. 126-247.000.

Mytels, Michael. Parabolic-shaped reflecting shade. 4,652,983, 3-24-87, Cl. 362-220.000.

Mytilineou, Eugenia: *See*—
Young, Rosa; and Mytilineou, Eugenia, 4,653,024, Cl. 365-113.000.

Mzik, Joseph: *See*—
Ballen, Ronald S.; Mzik, Joseph; and Richard, Jean P., 4,701,270, Cl. 252-8.551.

MZW-Maschinenfabrik Zuckermann Gesellschaft m.b.H.: *See*—
Schmidt, Erich, 4,655,441, Cl. 269-61.000.

N A Taylor Co., Inc.: *See*—
Havlick, Richard S., 4,669,989, Cl. 441-1.000.

N B Love Industries Pty. Limited: *See*—
Linke, Kaljo; and Neale, Raymond B., 4,683,837, Cl. 118-612.000.

N C Industries: *See*—
Brown, Larry D.; and Brown, Kevin D., 4,711,482, Cl. 294-19.100.

N G Trustees & Nominees, Ltd.: *See*—
de Carle, John T., 4,704,016, Cl. 351-161.000.

N H K. Builder Co., Ltd.: *See*—
Sato, Mituo; Hara, Hidetoshi; and Hanada, Hideto, 4,646,549, Cl. 72-88.000.

N I Industries: *See*—
Choate, Paul V.; and Woodburn, Robert W., 4,689,910, Cl. 42-100.000.

N I T Co., Ltd.: *See*—
Nakanishi, Wataru, 4,640,649, Cl. 405-237.000.

N J McAllister Petroleum Industries, Inc.: *See*—
White, L. Cameron, 4,653,588, Cl. 166-374.000.

N J Phillips Pty. Limited: *See*—
Phillips, Ian R.; Lodge, Robert H.; and Bunyan, Glen W., 4,642,099, Cl. 604-136.000.
Phillips, Ian R.; Lodge, Robert H.; and Bunyan, Glen W., 4,673,387, Cl. 604-62.000.
Phillips, Ian R., 4,673,395, Cl. 604-191.000.
Phillips, Ian R.; Reynolds, Mervyn F.; and Lodge, Robert H., 4,676,781, Cl. 604-135.000.

N K F Groep B.V.: *See*—
Grooten, Albertus T. M., 4,679,898, Cl. 350-96.230.
In't Veld, Steven H. K., 4,676,054, Cl. 57-6.000.
Laugs, Johannis A. B.; Van Den Berg, Gerrit; Van Daalen, Peter A.; and Reinders, Edward D., 4,690,718, Cl. 156-48.000.

N P S P "Desintegrator": *See*—
Cermanov, Atanas S.; Kazarov, Ljubomir R.; Valev, Marco S.; Jelyazcov, Jelyazco C.; and Kolev, Rusy C., 4,641,791, Cl. 241-66.000.

N P S P PO Hydroplastichna Obrabotka na Metalite: *See*—
Petkov, Georgi K.; Kyurkchiev, Bencho P.; Barzakov, Valentin Y.; and Minchev, Stefan P., 4,660,326, Cl. 51-7.000.

N S Corporation: *See*—
Ennis, G. Thomas; and Chelton, Robert G., 4,652,368, Cl. 210-97.000.

N S M. Corporation: *See*—
Cusson, Paul R., 4,709,241, Cl. 343-916.000.

N Schlumberger & Cie: *See*—
Menqi, Genevray C., 4,667,368, Cl. 17-23.000.

N T T. Corporation: *See*—
Zeller, Mark F., 4,671,144, Cl. 81-488.000.

N.U.S. S.r.l.: *See*—
Ferrando, Ugo; Gardi, Giovanni; and Pagliano, Giustino, 4,645,493, Cl. 604-174.000.

N. V. Bekaert S.A.: *See*—
Adriaensen, Ludo; and Decouttere, Bernard, 4,713,153, Cl. 204-144.500.
Crommelynck, Roger; and Quartier, Eddy, 4,670,082, Cl. 156-405.100.

N. V. Weefautomaten Picanol: *See*—
Vandeweghe, Michel; and Vandenabeele, Frans, 4,653,544, Cl. 139-116.000.

Naaijer, Geert J., to U.S. Philips Corporation. Device for selectively connecting between parallel paths and a common path. 4,640,995, 2-3-87, Cl. 200-11.0DA.

Naaktgeboren, Adrianus; and Van Eecke, Roger H., to New Holland Inc. Bale accumulator. 4,710,086, 12-1-87, Cl. 414-44.000.

Naaktgeboren, Adrianus; and Van Eecke, Roger H., to New Holland Inc. Bale accumulator and discharger. 4,710,087, 12-1-87, Cl. 414-44.000.

Naan Mechanical Works: *See*—
Gorney, Moshe, 4,655,397, Cl. 239-542.000.
Gorney, Moshe; and Dinur, Eldad, 4,687,143, Cl. 239-542.000.

Naarden International N.V.: *See*—
Broekhof, Nicolaas L. J. M.; van der Weerdt, Antonius J. A.; and Hofma, Jogchum, 4,643,844, Cl. 252-522.00R.
Broekhof, Nicolaas L. J. M.; and van der Weerdt, Antonius J. A., 4,650,604, Cl. 252-522.00R.
Broekhof, Nicolaas L. J. M., 4,689,175, Cl. 512-20.000.
van der Linde, Leendert M.; van Lier, Franciscus P.; and van der Weerdt, Antonius J. A., 4,704,232, Cl. 512-19.000.
Van Lier, Franciscus P.; van der Linde, Leendert M.; and van der Weerdt, Antonius J. A., 4,687,599, Cl. 512-27.000.

Naarmann, Herbert; Koehler, Gernot; and Schlag, Johannes, to BASF Aktiengesellschaft. Electrically conductive pyrrole copolymers and their preparation. 4,640,749, 2-3-87, Cl. 204-59.00R.

Naarmann, Herbert; Schmitt, Burghard; and Barzynski, Helmut, to BASF Aktiengesellschaft. Electrically conductive thermoplastic mixtures of macromolecular compounds and finely divided pyrrole polymers. 4,665,129, 5-12-87, Cl. 525-186.000.

Naarmann, Herbert: *See*—
Brandt, Hermann; Fischer, Hermann; Dreher, Hermann; Heil, Eduard; Hambrecht, Juergen; Naarmann, Herbert; Echte, Adolf; Gausepohl, Hermann; Siebel, Peter; Swoboda, Johann; Schwoebel, Gerd; and Nikles, Albert, 4,696,996, Cl. 528-214.000.

Nabae, Motohiro: *See*—
Miyamoto, Mitsuya; Ooseki, Yasuyuki; and Nabae, Motohiro, 4,678,547, Cl. 204-37.100.

Nabata, Yoshiyuki: *See*—
Yamasaki, Harumasa; Morii, Masayoshi; Yokota, Yukinaga; Mamada, Akira; and Nabata, Yoshiyuki, 4,714,719, Cl. 521-163.000.

Nabekawa, Shukichi: *See*—
Kariya, Akinori; Nabekawa, Shukichi; Hara, Yoshifusa; and Taguchi, Junji, 4,694,095, Cl. 558-186.000.

Nabell, Robert E.; and Wrighton, William F. C., to Edco, Inc. Apparatus for grounding an electronic module coupled to a terminal connecting block. 4,703,983, 11-3-87, Cl. 439-92.000.

Nabeshima, Daiki: *See*—
Katayama, Yoshitaka; Nabeshima, Daiki; and Nakamura, Shinichi, 4,716,558, Cl. 369-33.000.

Nabeshima, Hiroichi: *See*—
Fukuda, Yutaka; Minagawa, Koji; Nabeshima, Hiroichi; Muneki, Kouhiro; Asano, Yoshikatsu; Aoki, Kazuo; and Ishizaka, Yutaka, 4,679,935, Cl. 356-121.000.

Nabet, Claude: *See*—
Cappe, Alain; and Nabet, Claude, 4,716,278, Cl. 219-521.000.

Nabeta, Kazuo: *See*—
Shiga, Takuo; Nabeta, Kazuo; Nakano, Hiroyuki; and Suzuki, Toshimitsu, 4,661,519, Cl. 514-547.000.

Nabeta, Takeshi; and Hanahara, Isamu, to Denki Kagaku Kogyo Kabushiki Kaisha. Resin composition having electromagnetic wave shielding effect. 4,696,956, 9-29-87, Cl. 523-137.000.

Nabeta, Takeshi; and Hanahara, Isamu, to Denki Kagaku Kogyo Kabushiki Kaisha. Resin composition having electromagnetic wave shielding effect. 4,704,413, 11-3-87, Cl. 523-137.000.

Nabeta, Teiichi: *See*—
Nakamura, Takehiro; Sato, Susumu; Hattori, Tadashi; Nabeta, Teiichi; and Kato, Minoru, 4,678,921, Cl. 250-574.000.
Noguchi, Hiroki; Kobayashi, Toshiki; Fukami, Akira; Hattori, Tadashi; Sakakibara, Nobuyoshi; and Nabeta, Teiichi, 4,689,056, Cl. 55-138.000.
Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, 4,643,745, Cl. 55-137.000.
Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, 4,673,416, Cl. 55-137.000.

Nabetani, Shinji: *See*—
Sato, Nobuyuki; Ujiie, Kazuaki; Terasawa, Masaaki; and Nabetani, Shinji, 4,692,904, Cl. 365-226.000.

Nabeyama, Takatoshi; and Sakita, Eiichi, to Citizen Watch Co., Ltd. Apparatus for displaying astrological information. 4,681,459, 7-21-87, Cl. 368-16.000.

Nabisco Brands, Inc.: *See*—
Blain, William A.; and Zabrodsky, John, III, 4,691,625, Cl. 99-348.000.

Cioffi, Victor E., 4,713,918, Cl. 52-221.000.
Dartey, Clemence K.; and Biggs, Richard H., 4,668,519, Cl. 426-548.000.
Dartey, Clemence K.; and Biggs, Richard H., 4,678,672, Cl. 426-19.000.
Elwood, Clifford C., 4,656,908, Cl. 83-863.000.
Fast, Robert B., 4,699,797, Cl. 426-508.000.
Gannis, Peter M., 4,661,363, Cl. 426-429.000.
Gannis, Peter M.; Wilkins, Howard; and Holloway, Orris E., Jr., 4,692,342, Cl. 426-293.000.
Harris, Meade C., Jr.; Miller, David W.; and Arciszewski, Henry E., 4,687,673, Cl. 426-549.000.
Hussein, Mamoun M., 4,708,880, Cl. 426-424.000.
Johnson, Richard A.; and Lloyd, Norman E., 4,634,673, Cl. 435-234.000.
Karwowski, Jan, 4,664,931, Cl. 426-621.000.
Klacik, Kenneth J.; Vermesh, Robert J.; Fronczkowski, Paul R.; DeTora, Sigismondo A.; and Mihalich, Donald, 4,657,501, Cl. 425-379.00R.
Koppa, Daniel A., 4,715,803, Cl. 425-133.100.
Lee, Ralph D.; and Polifroni, Nicholas R., 4,699,047, Cl. 99-450.200.
Leibfred, Kevin J., 4,696,825, Cl. 426-283.000.
Lloyd, Norman E.; Antrim, Richard L.; and Johnson, Richard A., 4,663,288, Cl. 435-234.000.
Pinto, Albert, 4,647,467, Cl. 426-502.000.
Pinto, Albert A., 4,647,468, Cl. 426-503.000.
Pinto, Albert A.; and Dartey, Clemence K., 4,661,366, Cl. 426-572.000.
Pinto, Albert A., 4,685,878, Cl. 425-202.000.
Pinto, Albert A., 4,689,236, Cl. 426-502.000.
Pomper, Seymour; and Moore, Edward V., 4,652,453, Cl. 426-62.000.
Porcello, Sam J.; Manns, James M.; Player, Kenneth W.; and Wilson, Lonny L., 4,711,788, Cl. 426-94.000.
Puglia, Wayne J.; Lombardo, Andrew T.; Patanasinth, Kanit J.; and Vink, Walter, 4,659,582, Cl. 426-549.000.
Ramnarine, Wayne D., 4,698,004, Cl. 425-131.100.
Simelunas, William J.; and Polifroni, Nicholas R., 4,679,496, Cl. 99-450.200.
Simelunas, William J., 4,687,429, Cl. 425-192.00R.
Softly, Billy J.; and Huang, An S., 4,701,336, Cl. 426-538.000.
Spadafora, Paul F., 4,696,115, Cl. 34-43.000.
Spiel, Albert; Roe, James; and Spanier, Henry C., 4,634,597, Cl. 426-635.000.
Spiel, Albert; and Spanier, Henry C., 4,680,190, Cl. 426-302.000.
Spiel, Albert; Roe, James; and Spanier, Henry C., 4,711,425, Cl. 249-117.000.
Straka, Robert; Ross, Robert E.; and Vanderveer, Fred, 4,659,303, Cl. 425-376.00R.
Straka, Robert; Ross, Edgar; and Vanderveer, Fred, 4,698,228, Cl. 426-446.000.
Stroz, John J.; and Puglia, Wayne J., 4,634,593, Cl. 426-5.000.
Thulin, Robert, 4,648,821, Cl. 425-133.100.
Thulin, Robert; Ross, Robert E.; and Polifroni, Nicholas, 4,698,000, Cl. 425-133.100.
Thulin, Robert R., 4,678,418, Cl. 425-115.000.
Verrico, Marsha K., 4,702,925, Cl. 426-96.000.
Weaver, Ronald C.; and Steensen, Wayne L., 4,663,177, Cl. 426-579.000.
Weiss, Gilbert; D'Amelia, Ronald P.; Reggio, Richard A.; and Wolf, Stephen H., 4,656,039, Cl. 426-5.000.

Nablo, Samuel V., to Energy Sciences Inc. Electron-beam irradiation sterilization process. 4,652,763, 3-24-87, Cl. 250-492.300.

Nabstedt, Elmer J.; and Van Wagener, Raymond H., to Universal Manufacturing Corporation. Bobbin with strain relief. 4,636,763, 1-13-87, Cl. 336-192.000.

NACAM: *See*—
Haldric, Bernard; Benedi, Gregorio; and Pretot, Daniel, 4,657,281, Cl. 280-775.000.

Nace, Donald M.: *See*—
Derr, W. Rodman, Jr.; Garwood, William E.; Kuo, James C.; Leib, Tiberiu M.; Nace, Donald M.; and Tabak, Samuel A., 4,684,756, Cl. 585-330.000.

Nace, Vaughn M., to Dow Chemical Company, The. Gamma radiation resistant carbonate polymer compositions with sorbates. 4,657,949, 4-14-87, Cl. 523-137.000.

Nachbur, Hermann, to Ciba-Geigy Corporation. Metal salicylates, process for their preparation and use thereof as color developers in pressure-sensitive or heat-sensitive recording materials. 4,687,869, 8-18-87, Cl. 556-132.000.

Nachbur, Hermann: *See*—
Petitpierre, Jean C.; Nachbur, Hermann; and Wurmli, Albert, 4,716,424, Cl. 503-210.000.

Nachman, Frank J.: *See*—
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Nachtigal, Joachim: *See*—
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Nachtkamp, Klaus: *See*—
Konig, Joachim; Suling, Carlhans; and Nachtkamp, Klaus, 4,636,545, Cl. 524-457.000.
Thoma, Wilhelm; Noll, Klaus; Nachtkamp, Klaus; Pedain, Josef; and Schroer, Walter, 4,652,466, Cl. 427-244.000.

Nack, Herman: *See*—
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NACO Industries, Inc.: *See*—
Cox, Delbert L., 4,708,374, Cl. 285-156.000.

Nacom Industries, Incorporated: *See*—
Southworth, Peter R.; and Baxter, Gregory R., 4,682,927, Cl. 414-217.000.

Nada, Takatoshi: *See*—
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Nadan, Joseph S., to North American Philips Corporation. High resolution television system. 4,670,783, 6-2-87, Cl. 358-141.000.

Nadas, Julius, to Knorr-Bremse AG. Brake linkage for vehicle brakes. 4,706,786, 11-17-87, Cl. 188-196.0BA.

Nadeau, Paul H., to National Research Development Corporation. Randomly interstratified clays. 4,687,521, 8-18-87, Cl. 106-291.000.

Nadeau, Richard P., to Zorcom Enterprise, Inc. Toy exercizing machine for children. 4,705,268, 11-10-87, Cl. 272-72.000.

Nadel, Melvin, to Nadel & Sons Toy Corp. Water shooting amusement device. 4,703,892, 11-3-87, Cl. 239-211.000.

Nadel & Sons Toy Corp.: *See*—
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Labedan, Jean-Denis; and Stephan, Gerard, 4,655,618, Cl. 384-486.000.
Labedan, Jean-Denis; and Merle, Michel, 4,708,498, Cl. 384-560.000.

Nadelson, Jeffrey, to Sandoz Pharmaceuticals Corp. N-N-disubstituted alkenamides and phenylalkenamides. 4,681,898, 7-21-87, Cl. 514-619.000.

Nadezhdin, Alexander: *See*—
Mackiw, Vladimir N.; Nadezhdin, Alexander; and Weir, Donald R., 4,645,532, Cl. 75-0.50A.

Nadir, Mark, to Motorola, Inc. Method and apparatus for de-ringing a switched capacitor filter. 4,659,996, 4-21-87, Cl. 328-167.000.

Nadir, Mark; and Hauck, John D., to Motorola, Inc. Call reminder for a radio paging device. 4,701,759, 10-20-87, Cl. 340-825.440.

Nadkarni, Pradeep D.: *See*—
Piccoli, Dante E.; and Nadkarni, Pradeep D., 4,668,318, Cl. 156-149.000.

Nadler, Lee: *See*—
Freedman, Arnold; Nadler, Lee; and Schlossman, Stuart, 4,692,405, Cl. 435-7.000.

Nadolski, Gregory L.: *See*—
Bongard, James A.; Delaney, Michael J.; Duncan, Eugene F.; Fredricks, Cheryl A.; Groves, John P.; Kalista, Daniel J.; Klingseisen, Paul; Lazzaro, Joseph; and Nadolski, Gregory L., 4,678,867, Cl. 174-135.000.

Nadolski, Klaus: *See*—
Schulte, Klaus; Nadolski, Klaus; Ersfeld, Heinrich; Ebeling, Wilfried; Boden, Heinrich; and Schneider, Walter, 4,695,166, Cl. 366-160.000.

Nadudvari, Joszef; and Ragacs, Laszlo, to Hungaria Muanyagfeldolgozo Vallalat. Film-flow packing for biological treatment of fluids. 4,675,103, 6-23-87, Cl. 210-150.000.

Nadudvari, Jozsef: *See*—
Czeller, Bela; Kozak, Janos; Kucsera, Gabor; Nadudvari, Jozsef; and Nagyistok, Ferenc, 4,647,375, Cl. 210-267.000.

Nae, Hemi N.: *See*—
Levin, Gideon; and Nae, Hemi N., 4,654,391, Cl. 525-113.000.

Naebo, Sven-Olof: *See*—
Inge, Claes; Lagerstedt, Torgny; Borgstroem, Leonard; Carlsson, Claes-Goeran; Naebo, Sven-Olof; Moberg, Hans; and Franzen, Peter, 4,701,158, Cl. 494-74.000.

Naef, Ferdinand; and Vial, Christian, to Firmenich SA. Process for the preparation of oxygenated decaline derivatives. 4,701,543, 10-20-87, Cl. 549-458.000.

Naefe, Herbert: *See*—
Heinz, Michael; Lange, Joachim; Muschner, Udo; Naefe, Herbert; Rothfuss, Hans; Winkelmann, Manfred; and Winkler, Hans-Joachim, 4,711,432, Cl. 266-220.000.

Naegeli, Andrew H.; and Carp, Stuart L., to Hewlett-Packard Company. Noise compensated synchronous detector system. 4,675,613, 6-23-87, Cl. 328-133.000.

Naegeli, Peter; and Rohr, Martin, to Givaudan Corporation. Novel flavor compositions and tobacco products containing cis-3,7-dimethylocta-3,6-dienoic acid. 4,669,490, 6-2-87, Cl. 131-276.000.

Naeki, Yoshihiro: *See*—
Inoue, Koi; Go, Youki; and Naeki, Yoshihiro, 4,682,439, Cl. 43-24.000.

Naem, Abdalla A.: *See*—
Calder, Iain D.; Macelwee, Thomas W.; and Naem, Abdalla A., 4,680,609, Cl. 357-42.000.
Naguib, Hussein M.; Calder, Iain D.; Ho, Vu Q.; and Naem, Abdalla A., 4,683,645, Cl. 437-41.000.

Naemura, Shohei; and Kubota, Keiichi, to NEC Corporation. Image projector with liquid crystal light shutter. 4,699,498, 10-13-87, Cl. 355-3.00R.

Naemura, Shohei, to NEC Corporation. Liquid crystal material for a thermal writing liquid crystal element. 4,699,731, 10-13-87, Cl. 252-299.660.

Naert, Michel S., to AB Volvo. Vehicle back-seat. 4,712,824, 12-15-87, Cl. 296-65.00R.

Naete, Hidehiko: *See*—
Augello, Daniel; Robert, Pierre H.; Teshima, Toru; and Naete, Hidehiko, 4,663,718, Cl. 364-444.000.

Naff, Wesley W., Jr. Litter gun. 4,655,495, 4-7-87, Cl. 294-61.000.

Nafziger, Steven: *See*—
Charbonneau, Arthur G.; McMennamy, John A.; and Nafziger, Steven, 4,660,416, Cl. 73-168.000.
Charbonneau, Arthur G.; Godfrey, Dwaine A.; McNennamy, John A.; and Nafziger, Steven, 4,712,071, Cl. 324-415.000.
McNennamy, John A.; and Nafziger, Steven, 4,690,003, Cl. 73-862.320.
McNennamy, John A.; Nafziger, Steven; Charbonneau, Arthur G.; and Godfrey, Dwaine A., 4,693,113, Cl. 73-168.000.

Nagabhushan, Bellur L.: *See*—
Huber, Joseph C., Jr.; and Nagabhushan, Bellur L., 4,676,167, Cl. 102-393.000.

Nagabhushan, Tattanahali L.; Miller, George H.; Schwartz, Jerome; and Ostrander, Michael R., to Schering Corporation. Interferon-cyclaradine combination. 4,636,383, 1-13-87, Cl. 424-85.000.

Nagabhushan, Tattanahali L.; and McCombie, Stuart W., to Schering Corporation. Intermediates for preparation of (threo)-1-aryl-2-acylamido-3-fluoro-1-propanols. 4,677,214, 6-30-87, Cl. 549-551.000.

Nagae, Kiyoshi, to Tokai TRW & Co., Ltd. Vehicular speed responsive power steering device. 4,694,927, 9-22-87, Cl. 180-132.000.

Nagae, Yasutaka, to Fujitsu Limited. Microcomputer. 4,716,521, 12-29-87, Cl. 364-200.000.

Nagae, Yoshiharu; Numata, Shunichi; Kinjo, Noriyuki; and Funahata, Katuyuki, to Hitachi, Ltd. Liquid crystal device. 4,641,924, 2-10-87, Cl. 350-339.00R.

Nagae, Yoshiharu: *See*—
Isogai, Masato; Hattori, Shintaroo; Iwaskai, Kishiro; Mukoh, Akio; Umeda, Takao; and Nagae, Yoshiharu, 4,634,226, Cl. 350-332.000.
Kitazima, Masaaki; Kawakami, Hideaki; and Nagae, Yoshiharu, 4,649,517, Cl. 365-108.000.

Nagafuji, Motoaobu, to Hitachi, Ltd. Operation processing apparatus. 4,677,582, 6-30-87, Cl. 364-749.000.

Nagahama, Masamitsu; and Suzuki, Kazunori, to Pentel Kabushiki Kaisha. Ink guide for writing instruments. 4,708,508, 11-24-87, Cl. 401-199.000.

Nagahama, Toshiyuki; Suzuki, Hisashi; and Yamamoto, Akira, to Hitachi, Ltd. Supervisory control panel board. 4,658,525, 4-21-87, Cl. 40-564.000.

Nagahara, Michiko: *See*—
Nakano, Jun; Nagahara, Michiko; Hayashida, Mitsuo; Suzuki, Yuji; and Maruyama, Yohichi, 4,652,566, Cl. 514-253.000.
Ohishi, Yoshitaka; Nagahara, Michiko; Kajikawa, Norio; Yajima, Motoyuki; Nogimori, Katsumi; and Kurokawa, Shigeki, 4,666,931, Cl. 514-389.000.

Nagahara, Shusaku: *See*—
Maruyama, Masanori; Takahashi, Kenji; Kudo, Koji; Hombaugh, Masanori; and Nagahara, Shusaku, 4,716,468, Cl. 358-219.000.
Sato, Kazuhiro; Achiha, Masahiro; and Nagahara, Shusaku, 4,677,621, Cl. 371-30.000.
Satou, Kazuhiro; Kudo, Koji; Maruyama, Masanori; Mimura, Itaru; and Nagahara, Shusaku, 4,701,679, Cl. 315-383.000.

Nagahara, Shuusaku: *See*—
Akiyama, Toshiyuki; Koike, Norio; Ito, Kenji; Ogino, Takeshi; and Nagahara, Shuusaku, 4,675,887, Cl. 377-58.000.

Nagahara, Syusaku: *See*—
Ozawa, Naoki; Akiyama, Toshiyuki; Satoh, Kazuhiro; Nagahara, Syusaku; and Mimura, Itaru, 4,716,455, Cl. 358-44.000.

Nagahira, Joji: *See*—
Takahashi, Kazuyoshi; Suzuki, Koji; Nagahira, Joji; Yoshihara, Kunio; Matsui, Toshiro; and Ishikawa, Tadashi, 4,709,319, Cl. 363-49.000.

Nagahiro, Kenichi; Ishida, Atsushi; and Kajiwara, Shigemasa, to Honda Giken Kogyo Kabushiki Kaisha. Operating mechanism for dual valves in an internal combustion engine. 4,656,977, 4-14-87, Cl. 123-90.160.

Nagahiro, Michinori: *See*—
Maruno, Susumu; Nakata, Shinobu; Nagahiro, Michinori; and Minamide, Seiko, 4,717,930, Cl. 400-120.000.

Nagahori, Naosumi: *See*—
Tsuji, Tsuyoshi; and Nagahori, Naosumi, 4,653,987, Cl. 417-360.000.

Nagai, Akio, to Kabushiki Kaisha Seiko Epson. Printer. 4,652,159, 3-24-87, Cl. 400-322.000.

Nagai, Akira: *See*—
Ejiri, Yoshihiro; Nagai, Akira; Nakai, Taiichiro; and Niiro, Yasuhiko, 4,708,427, Cl. 350-96.200.

Nagai, Asaki: *See*—
Akimoto, Taizo; and Nagai, Asaki, 4,701,800, Cl. 358-244.000.

Nagai, Chiaki: *See*—
Itoh, Hayami; and Nagai, Chiaki, 4,657,561, Cl. 44-51.000.

Nagai, Haruhiko: *See*—
Haruta, Kenyu; Wakata, Hitoshi; Sato, Yukio; Nagai, Haruhiko; Nakatani, Hajime; and Kita, Hideki, 4,686,682, Cl. 372-87.000.

Nagai, Hikaru: *See*—
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,664,963, Cl. 428-142.000.
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,675,075, Cl. 156-650.000.

Nagai, Hiroyuki: *See*—
Sakashita, Seiji; Sato, Takeshi; Nagai, Hiroyuki; Kubo, Kazuhiko; and Usui, Akira, 4,677,692, Cl. 455-319.000.

Nagai, Junichi: *See*—
Kamimori, Tadatoshi; Nagai, Junichi; and Mizuhashi, Mamoru, 4,671,619, Cl. 350-357.000.

Nagai, Kayoko; and Tsubuko, Kazuo, to Ricoh Co., Ltd. Liquid developer for electrophotography. 4,690,881, 9-1-87, Cl. 430-114.000.

Nagai, Kiyofumi: *See*—
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,647,310, Cl. 106-22.000.
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,711,668, Cl. 106-22.000.

Nagai, Kiyoshi; and Sakamoto, Nobuyoshi, to Oki Electric Industry Co., Ltd. Surface-acoustic-wave filter. 4,649,357, 3-10-87, Cl. 333-196.000.

Nagai, Kiyoshi: *See*—
Shirai, Norio; Kishimoto, Jotaro; Noguchi, Yukihide; Ishibe, Hideomi; and Nagai, Kiyoshi, 4,662,915, Cl. 55-511.000.

Nagai, Kiyotaka; Suzuki, Ryoji; and Yamada, Akitoshi, to Matsushita Electric Industrial Co. Ltd. Echo canceller. 4,672,665, 6-9-87, Cl. 379-411.000.

Nagai, Koichi: *See*—
Kojima, Yutaka; Omori, Takashi; and Nagai, Koichi, 4,650,714, Cl. 428-341.000.

Nagai, Kunio: *See*—
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,674,556, Cl. 164-454.000.
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,694,885, Cl. 164-416.000.
Sakaguchi, Haruo; Suehiro, Teruyoshi; Terada, Kohsuke; Ueda, Minoru; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,703,791, Cl. 164-417.000.

Nagai, Kyoichi. Emergency warning device for use in a party line telephone system or the like. 4,656,652, 4-7-87, Cl. 379-41.000.

Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, to Hitachi, Ltd. Impeller of centrifugal blower. 4,647,271, 3-3-87, Cl. 416-186.00R.

Nagai, Masaaki, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the ignition timing of an internal combustion engine. 4,691,678, 9-8-87, Cl. 123-425.000.

Nagai, Masaaki, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the ignition timing of an internal combustion engine. 4,694,801, 9-22-87, Cl. 123-425.000.

Nagai, Masaaki, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the ignition timing of an internal combustion engine. 4,715,342, 12-29-87, Cl. 123-425.000.

Nagai, Masahide; and Yokose, Kazutoshi, to Seiko Instruments Inc. Industrial robot. 4,685,862, 8-11-87, Cl. 414-744.00A.

Nagai, Masahide; Noda, Minoru; and Suzuki, Hitoshi, to Seiko Instruments & Electronics Ltd. Industrial robot. 4,701,100, 10-20-87, Cl. 414-751.000.

Nagai, Masahide: *See*—
Miyata, Tsutomu; and Nagai, Masahide, 4,692,881, Cl. 364-551.000.

Nagai, Masaichi: *See*—
Minemura, Tetsuroh; Ishihara, Joo; Nagai, Masaichi; and Tamamura, Takeo, 4,668,591, Cl. 428-605.000.
Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisashi; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kiyoshi; and Kaneko, Toshiki, 4,651,172, Cl. 346-135.100.

Nagai, Masato: *See*—
Suzuki, Yasuo; Kawamoto, Tetsuo; Motohashi, Ryo; Nagai, Masato; Takegawa, Katsumi; and Taniguchi, Naohiro, 4,704,567, Cl. 318-254.000.

Nagai, Masayuki: *See*—
Hayashi, Motomu; Nagai, Masayuki; and Akoshima, Shigeru, 4,640,066, Cl. 52-208.000.
Hayashi, Motomu; Nagai, Masayuki; and Imayoshi, Kiyoyuki, 4,674,247, Cl. 52-208.000.

Nagai, Michiko: *See*—
Tahara, Yoshiyuki; Nagai, Michiko; Kogure, Katsura; Kawase, Shigeo; and Yamaguchi, Teruhito, 4,642,314, Cl. 514-475.000.

Nagai, Norimichi; Horiishi, Nanao; Kiyama, Masao; and Takada, Toshio, to Toda Kogyo Corp. Hexagonal plate-like barium ferrite particles for magnetic recording and process for producing the same. 4,698,182, 10-6-87, Cl. 252-62.590.

Nagai, Ryo, to Mitutoyo Mfg. Co., Ltd. Photoelectric type displacement detection apparatus. 4,636,630, 1-13-87, Cl. 250-214.00R.

Nagai, Ryo: *See*—
Sakai, Yoshio; Nagai, Ryo; Yamamoto, Shuichi; Nakamura, Hideo; and Noguchi, Kouki, 4,707,718, Cl. 357-45.000.

Nagai, Seiji: *See*—
Mori, Masashi; Nonaka, Shingo; and Nagai, Seiji, 4,695,167, Cl. 366-181.000.

Nagai, Shoichi; Hiraoka, Saburo; Hama, Shinji; and Senga, Mitsuo, to Mitsubishi Rayon Co., Ltd. Process for producing lightweight calcium silicate articles. 4,659,386, 4-21-87, Cl. 106-120.000.

Nagai, Shoichi: *See*—
Yanagimoto, Katsutoshi; and Nagai, Shoichi, 4,634,655, Cl. 430-277.000.

Nagai, Takaatsu; Takada, Masayuki; Sato, Akira; and Imamura, Mineo, to Nippon Steel Corporation; and Nippon Steel Corporation. Method for quantitative discharge of molten material. 4,641,319, 2-3-87, Cl. 373-84.000.

Nagai, Takeshi: *See*—
Makino, Yoshio; Nagai, Takeshi; and Yamazaki, Shingo, 4,636,323, Cl. 252-51.50R.

Nagai, Tatsuo; Suzuki, Shinichi; and Yamazaki, Hiroshi, to Konishiroku Photo Industry Co., Ltd. Pressure fixable microcapsule type toner. 4,708,924, 11-24-87, Cl. 430-138.000.

Nagai, Toki. Composite electromotive apparatus utilizing solar energy and the like. 4,714,797, 12-22-87, Cl. 136-206.000.

Nagai, Toshiaki: *See*—
Kasuya, Katsuhiko; Sasaki, Shigeru; and Nagai, Toshiaki, 4,671,751, Cl. 418-201.000.

Nagai, Toshinari; Masui, Takatoshi; Sato, Yasushi; and Katsuno, Toshiyasu, to Toyota Jidosha Kabushiki Kaisha. Double air-fuel ratio sensor system carrying out learning control operation. 4,707,985, 11-24-87, Cl. 60-274.000.

Nagai, Toshinari; Masui, Takatoshi; Satou, Yasushi; and Katsuno, Toshiyasu, to Toyota Jidosha Kabushiki Kaisha. Double air-fuel ratio sensor system having improved response characteristics. 4,712,373, 12-15-87, Cl. 60-274.000.

Nagai, Toshinari: *See*—
Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Nagai, Toshinari; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,693,076, Cl. 60-274.000.
Katsuno, Toshiyasu; Nagai, Toshinari; Masui, Takatoshi; and Satou, Yasushi, 4,707,984, Cl. 60-274.000.

Nagai, Tsuneji: *See*—
Suzuki, Yoshiki; Ikura, Hiroshi; Yamashita, Gentaro; and Nagai, Tsuneji, 4,715,369, Cl. 128-156.000.

Nagai, Yasuo; and Abe, Fumiyoshi, to Sony Corporation. Apparatus for compensating a quantization error. 4,694,234, 9-15-87, Cl. 318-603.000.

Nagai, Yasutaka; and Enjoji, Susumu, to Kabushiki Kaisha Toshiba. Ultrasonic transducer. 4,676,106, 6-30-87, Cl. 73-625.000.

Nagai, Yawara: *See*—
Kawakami, Kazuo; Nagai, Yawara; and Aihara, Takayuki, 4,634,575, Cl. 422-63.000.

Nagai, Yohei; and Isozaki, Yoshimasa, to Nippon Gakki Seizo Kabushiki Kaisha. Acoustic tone inhibiting means for keyboard musical instrument. 4,704,931, 11-10-87, Cl. 84-1.010.

Nagai, Yoichiro; Watanabe, Hamao; and Akutsu, Yoshinori, to Yuki Gosei Kogyo Co., Ltd. 1,1-dichloro-1,2,2-trimethyl-2-phenyldisilane and method for producing the same. 4,707,557, 11-17-87, Cl. 556-430.000.

Nagai, Yoichiro; Watanabe, Hamao; and Akutsu, Yoshinori, to Yuki Gosei Kogyo Co., Ltd. 1,2-dichloro-1,2,2-trimethyl-1-phenyldisilane and method for producing the same. 4,716,240, 12-29-87, Cl. 556-430.000.

Nagai, Yoriko: *See*—
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.

Nagai, Yoshiaki: *See*—
Watanabe, Toshinori; Sasaki, Koji; Yasunobu, Chizuko; Iizuka, Yumiko; Nagai, Yoshiaki; Yamanaka, Toshiro; Yamakoshi, Minoru; and Tanaka, Takashi, 4,700,317, Cl. 364-488.000.

Nagai, Yoshitaka; and Doguchi, Nobushige, to Yoshida Kogyo K. K. Method for manufacturing a heat insulating shaped bar. 4,686,754, 8-18-87, Cl. 29-418.000.

Nagai, Yutaka: *See*—
Mihashi, Yutaka; and Nagai, Yutaka, 4,667,332, Cl. 372-45.000.

Nagaike, Sadanori: *See*—
Takeda, Yukio; Iijima, Shiro; Higuchi, Shinsuke; Ohura, Masaki; and Nagaike, Sadanori, 4,639,803, Cl. 360-103.000.

Nagaishi, Yasuo: *See*—
Horiike, Yoshio; Nagaishi, Yasuo; and Fukui, Kiyotake, 4,660,215, Cl. 375-48.000.

Nagaki, Hideyoshi: *See*—
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.
Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, 4,704,459, Cl. 546-123.000.

Nagakura, Isao: *See*—
Nakanishi, Susumu; and Nagakura, Isao, 4,694,080, Cl. 544-49.000.

Nagakura, Katsuhiko, to Yanmar Diesel Engine Co., Ltd. Internal combustion engine. 4,693,218, 9-15-87, Cl. 123-260.000.

Nagakura, Kouichi: *See*—
Yamamoto, Shinji; Kaijiri, Kouhei; Nagakura, Kouichi; Oda, Denichi; Matsumori, Yasuo; and Nakayama, Kimio, 4,703,086, Cl. 525-133.000.

Nagakura, Masahiko: *See*—
Fuji, Setsuro; Yokoyama, Touru; Ikegaya, Kouji; Yokoo, Nobuo; and Nagakura, Masahiko, 4,639,435, Cl. 514-11.000.

Nagakura, Naotaka: *See*—
Amann, Manfred; Nagakura, Naotaka; and Zenk, Meinhart H., 4,657,861, Cl. 435-121.000.

Nagakusa, Shinichiro: *See*—
Nishiura, Masaharu; and Nagakusa, Shinichiro, 4,659,920, Cl. 250-211.00J.

Nagamatsu, Hidetoshi: *See*—
Kurita, Toshinori; and Nagamatsu, Hidetoshi, 4,699,584, Cl. 425-450.100.

Nagamatsu, Hiroaki; and Ebisumoto, Takashige, to Mazda Motor Corporation. Speed ratio control for a steplessly variable transmission. 4,665,775, 5-19-87, Cl. 74-868.000.

Nagami, Akira, to NEC Corporation. Semiconductor memory having multiple access. 4,710,896, 12-1-87, Cl. 365-149.000.

Nagamine, Keiji; and Handa, Ichirou, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for inspecting bottles. 4,650,326, 3-17-87, Cl. 356-240.000.

Nagamine, Kenzi: *See*—
Nakayama, Nobuo; Nagamine, Kenzi; Ueda, Kazuya; and Sato, Fuminari, 4,703,186, Cl. 250-566.000.

Nagamine, Kimihiro: *See*—
Hirota, Satoshi; and Nagamine, Kimihiro, 4,679,952, Cl. 400-279.000.

Nagamine, Masahiro: *See*—
Kazusa, Susumu; Nagamine, Masahiro; and Tagawa, Takayuki, 4,649,979, Cl. 152-527.000.

Nagamori, Hiroyuki; Mukai, Takashi; Tsushima, Rikio; Kuwamoto, Hiroshi; Iwado, Shuichi; and Sharyo, Takeru, to Kao Corporation and Nippon Kokan Kabushiki Kaisha. Metal working water-soluble lubricant composition and method of feeding same. 4,650,595, 3-17-87, Cl. 252-32.500.

Nagamori, Hiroyuki: *See*—
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, 4,637,885, Cl. 252-32.500.
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; Iwado, Shuichi; and Sakaguchi, Yoshihiro, 4,663,061, Cl. 252-32.500.
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, 4,664,823, Cl. 252-34.000.
Kuwamoto, Hiroshi; Iwadoo, Shuichi; Okami, Yuji; Nagamori, Hiroyuki; and Nakagawa, Yasuhiro, 4,693,839, Cl. 252-51.50A.

Nagamori, Nobuyuki: *See*—
Funakawa, Naoyoshi; Demura, Hajime; and Nagamori, Nobuyuki, 4,684,297, Cl. 407-41.000.

Nagamoto, Itsushi; Nakanishi, Tatsuo; and Tajima, Ryohei, to Nippon Gakki Seizo Kabushiki Kaisha. Method for producing a wood-type golf club head. 4,714,577, 12-22-87, Cl. 264-46.600.

Nagamoto, Masanaka; Kurisu, Norio; and Taniguchi, Keishi, to Ricoh Company, Ltd. Thermosensitive recording material. 4,636,819, 1-13-87, Cl. 346-216.000.

Nagamoto, Masanaka: *See*—
Hoshina, Takayuki; Takahashi, Michihisa; Rimoto, Masamori; and Nagamoto, Masanaka, 4,659,644, Cl. 430-182.000.

Naganawa, Hiroshi: *See*—
Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Imuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, 4,686,308, Cl. 564-219.000.

Naganawa, Tadahisa; and Matsuda, Yoshihiko, to Toyota Jidosha Kabushiki Kaisha. Method of controlling air-fuel ratio and ignition timing in internal combustion engine and apparatus therefor. 4,658,785, 4-21-87, Cl. 123-406.000.

Nagano, Eiki; Haga, Toru; Sato, Ryo; and Morita, Kouichi, to Sumitomo Chemical Company, Limited. Tetrahydrophthalimides and their herbicidal use. 4,640,707, 2-3-87, Cl. 71-96.000.

Nagano, Eiki; Takemoto, Ichiki; Fukushima, Masayuki; Yoshida, Ryo; and Matsumoto, Hiroshi, to Sumitomo Chemical Company, Limited. Herbicidal 2-substituted phenyl-4,5,6,7-tetrahydro-2H-indazoles. 4,670,043, 6-2-87, Cl. 71-92.000.

Nagano, Eiki; Hashimoto, Shunichi; Yoshida, Ryo; Matsumoto, Hiroshi; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. Tetrahydrophthalimide compounds, as post-emergence herbicides for use in soybean fields. 4,670,046, 6-2-87, Cl. 71-96.000.

Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. 2-Substituted phenyl-4,5,6,7-tetrahydro-2H-iso-indole-1,3-diones, and their production and use. 4,684,397, 8-4-87, Cl. 71-96.000.

Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. 2-substituted phenyl-4,5,6,7,-tetrahydro-2H-indole-1,3-diones, and their production and use. 4,709,049, 11-24-87, Cl. 548-513.000.

Nagano, Eiki: *See*—
Haga, Toru; Nagano, Eiki; Takase, Masayuki; and Sato, Ryo, 4,668,278, Cl. 71-92.000.
Haga, Toru; Nagano, Eiki; Sato, Ryo; and Morita, Kouichi, 4,670,042, Cl. 71-92.000.

Nagano, Fumikazu, to Sharp Kabushiki Kaisha. Color image reading apparatus. 4,642,679, 2-10-87, Cl. 358-75.000.

Nagano, Fumikazu, to Sharp Kabushiki Kaisha. CCD sensor output circuit of image reading apparatus. 4,654,723, 3-31-87, Cl. 358-293.000.

Nagano, Fumikazu; and Urakawa, Toshio, to Sharp Kabushiki Kaisha. Color-picture analyzing apparatus for continuously switching-on green lamp and for alternatively switching-on blue and red-purpose lamps. 4,658,289, 4-14-87, Cl. 358-75.000.

Nagano, Fumikazu, to Sharp Kabushiki Kaisha. Image reading apparatus. 4,658,303, 4-14-87, Cl. 358-294.000.

Nagano, Fumikazu, to Sharp Kabushiki Kaisha. Fluorescent tube ignitor. 4,663,566, 5-5-87, Cl. 315-97.000.

Nagano, Fumikazu, to Sharp Kabushiki Kaisha. Color-picture analyzing apparatus with red-purpose and green-purpose filters. 4,670,779, 6-2-87, Cl. 358-75.000.

Nagano, Fumikazu, to Sharp Kabushiki Kaisha. A lighting control device in manuscript reproduction equipment. 4,687,919, 8-18-87, Cl. 250-205.000.

gano, Fumikazu, to Sharp Kabushiki Kaisha. Image reader. 4,691,228, 9-1-87, Cl. 358-75.000.
gano, Fumikazu, to Sharp Kabushiki Kaisha. Thermal color recording apparatus. 4,707,706, 11-17-87, Cl. 346-76.0PH.
gano, Hiroo: *See*—
Kajimura, Haruhiko; Nagano, Hiroo; and Miura, Minoru, 4,640,817, Cl. 420-50.000.
Kajimura, Haruhiko; Nagano, Hiroo; and Miura, Minoru, 4,671,929, Cl. 420-44.000.
Minami, Takao; Nagano, Hiroo; Yamanaka, Kazuo; Okada, Yasutaka; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; and Sasaguri, Nobuya, 4,715,909, Cl. 148-410.000.
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yaautaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.
gano, Hiroyuki: *See*—
Soji, Kazuo; and Nagano, Hiroyuki, 4,705,999, Cl. 318-568.000.
gano, Jun; and Tanaka, Shuichi, to Bridgestone Corporation. System for measuring amount of rubber bank between rolls. 4,642,686, 2-10-87, Cl. 358-107.000.
gano, Katsumi, to Kabushiki Kaisha Toshiba. Circuit in which output circuit and operational amplifier equipped input circuit are electrically isolated. 4,636,655, 1-13-87, Cl. 307-261.000.
gano, Katsumi, to Tokyo Shibaura Denki Kabushiki Kaisha. Current source circuit with a photo coupler. 4,652,764, 3-24-87, Cl. 250-551.000.
gano, Katsumi, to Kabushiki Kaisha Toshiba. Circuit in which output circuit and operational amplifier equipped input circuit are electrically isolated. 4,678,946, 7-7-87, Cl. 307-490.000.
gano Keiki Seisakusho, Ltd.: *See*—
Maruno, Naohiko; Abe, Masakazu; and Ogawa, Tetsuo, 4,684,842, Cl. 310-316.000.
gano, Masahiko, to Fuji Photo Film Co., Ltd. Recording method for video and audio signals in magnetic picture recording system. 4,654,724, 3-31-87, Cl. 358-310.000.
gano, Masahiko; and Sakaki, Naoaki, to Fuji Photo Film Co., Ltd. Recording and reproducing system for color video signal. 4,668,997, 5-26-87, Cl. 358-323.000.
gano, Masahiko; and Sakaki, Naoaki, to Fuji Photo Film Co., Ltd. Recording and reproducing system employing balanced modulation for color video signal. 4,695,899, 9-22-87, Cl. 358-310.000.
gano, Masami, to Hitachi, Ltd. Electronic fuel injection system for internal combustion engine. 4,662,340, 5-5-87, Cl. 123-492.000.
gano, Masashi, to Shimano Industrial Company Limited. Caliper brake for a bicycle. 4,635,759, 1-13-87, Cl. 188-24.220.
gano, Masashi, to Shimano Industrial Company Limited. Bicycle brake operating device positioned on a drop handle. 4,637,273, 1-20-87, Cl. 74-489.000.
gano, Masashi, to Shimano Industrial Company Limited. Rear derailleur for a bicycle. 4,637,809, 1-20-87, Cl. 474-80.000.
gano, Masashi, to Shimano Industrial Company Limited. Derailleur for a bicycle. 4,642,072, 2-10-87, Cl. 474-82.000.
gano, Masashi, to Shimano Industrial Company Limited. Support structure for a chain guide at a derailleur for a bicycle. 4,670,000, 6-2-87, Cl. 474-80.000.
gano, Masashi, to Shimano Industrial Company Limited. Freewheel for a bicycle. 4,674,617, 6-23-87, Cl. 192-113.00B.
gano, Masashi, to Shimano Industrial Company Limited. Mounting structure for mounting bicycle parts to a bicycle frame. 4,675,952, 6-30-87, Cl. 24-483.000.
gano, Masashi, to Shimano Industrial Company Limited. Speed control device. 4,690,662, 9-1-87, Cl. 474-69.000.
gano, Masashi, to Shimano Industrial Company Limited. Rear derailleur for a bicycle. 4,690,663, 9-1-87, Cl. 474-80.000.
gano, Masashi, to Shimano Industrial Company Limited. Rear derailleur for a bicycle. 4,692,131, 9-8-87, Cl. 474-80.000.
gano, Masashi, to Shimano Industrial Company Limited. Pedal for a bicycle. 4,700,588, 10-20-87, Cl. 74-594.400.
gano, Mitsuo: *See*—
Koga, Yasuharu; Yasumura, Jiro; and Nagano, Mitsuo, 4,662,942, Cl. 106-90.000.
gano, Noriaki: *See*—
Shibanuma, Tadao; Nagano, Noriaki; Hara, Ryuichiro; Nakano, Kohji; Koda, Akio; Yamazaki, Atsuki; and Murakami, Yukiyasu, 4,690,921, Cl. 514-205.000.
Shibanuma, Tadao; Nakano, Kohji; Nagano, Noriaki; Murakami, Yukiyasu; Hara, Ryuichiro; Koda, Akio; and Yamazaki, Atsuki, 4,699,980, Cl. 540-224.000.
gano, Riichiro; and Sagane, Toshihiro, to Mitsui Petrochemical Industries, Ltd. Hot-melt adhesive composition. 4,659,785, 4-21-87, Cl. 525-324.000.
gano, Shuji; Ida, Shuichiro; and Yoshinaka, Toshio, to Toyota Jidosha Kabushiki Kaisha. Speed meter drive device for automobile. 4,670,449, 7-14-87, Cl. 74-12.000.
gano, Shuji; Ida, Shuichiro; Yoshinaka, Toshio; and Okuda, Shozo, to Toyota Jidosha Kabushiki Kaisha. Power transfer device for automotive vehicles. 4,690,015, 9-1-87, Cl. 74-665.0GE.
gano, Shuji: *See*—
Ida, Shuichiro; Yoshinaka, Toshio; and Nagano, Shuji, 4,713,980, Cl. 74-467.000.
Yoshinaka, Toshio; Taniguchi, Toshikatsu; Ida, Shuichiro; Nagano, Shuji; Kimura, Shigeru; and Tanaka, Yasuo, 4,711,136, Cl. 74-665.0GA.
Yoshinaka, Toshio; and Nagano, Shuji, 4,714,128, Cl. 180-247.000.
Nagano, Susumu: *See*—
Fukuda, Tomeichiro; Soda, Takashi; Furukawa, Ikuo; Hayashi, Takushi; Kumata, Fujio; and Nagano, Susumu, 4,662,835, Cl. 425-145.000.
Ohsawa, Katsuyuki; Kawazoe, Hiromitsu; and Nagano, Susumu, 4,676,216, Cl. 123-533.000.
Nagano, Syuji: *See*—
Yoshinaka, Toshio; and Nagano, Syuji, 4,678,055, Cl. 180-247.000.
Nagano, Takahiro: *See*—
Kimura, Shin; Fukui, Hiroshi; Amano, Hisao; Yatsuo, Tsutomu; Oikawa, Saburo; and Nagano, Takahiro, 4,646,122, Cl. 357-38.000.
Yatsuo, Tsutomu; Nagano, Takahiro; Oikawa, Saburo; Sato, Yukimasa; Kimura, Shin; and Fukui, Hiroshi, 4,651,189, Cl. 357-38.000.
Nagano, Takashi, to Olympus Optical Co., Ltd. Epidark illumination device. 4,659,193, 4-21-87, Cl. 350-525.000.
Nagano, Tamio, to Kabushiki Kaisha Daikin Seisakusho. Clutch disk supported by a resin bushing. 4,651,860, 3-24-87, Cl. 192-106.200.
Nagano, Tamio, to Kabushiki Kaisha Daikin Seisakusho. Clutch cover assembly. 4,679,683, 7-14-87, Cl. 192-89.00B.
Nagano, Teruo; Toyama, Tadao; and Nagashima, Akira, to Fuji Photo Film Co., Ltd. Photosensitive composition with 2-halomethyl-5-substituted-1,3,4-oxadiazole. 4,701,399, 10-20-87, Cl. 430-179.000.
Nagano, Teruo: *See*—
Hashimoto, Hitoshi; Shibata, Takuzo; Nagano, Teruo; Hara, Kozo; Kuwahara, Nobuhiro; and Yashiki, Ikuo, 4,659,583, Cl. 426-629.000.
Nagano, Toshiaki, to Shinsei Kogyo Co., Ltd. Toy car of a front wheel driving type. 4,666,420, 5-19-87, Cl. 446-443.000.
Nagano, Toshiaki, to Shinsei Kogyo Co., Ltd. Dumping mechanism for a dumping toy truck. 4,696,517, 9-29-87, Cl. 298-1.00T.
Nagano, Tsuneo: *See*—
Iida, Kozo; Nagano, Tsuneo; Yokoyama, Naruo; Obayashi, Yoshiaki; and Mitsuoka, Shigeaki, 4,656,147, Cl. 502-26.000.
Nagano, Yoshinobu, to Yamanouchi Pharmaceutical Co., Ltd. Glutathione monoalkyl ester sulfates and process for producing the same. 4,709,013, 11-24-87, Cl. 530-332.000.
Nagano, Yousuke: *See*—
Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryoichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.
Suzaki, Masafumi; Mikami, Katsumasa; Nagano, Yousuke; and Kitagishi, Tomoji, 4,641,149, Cl. 346-76.0PH.
Naganuma, Nobuyuki; and Shimizu, Yasuhiro, to Brother Kogyo Kabushiki Kaisha. Zigzag sewing machine with fabric-edge tracing function. 4,664,048, 5-12-87, Cl. 112-453.000.
Nagao, Akihito: *See*—
Oda, Hiroyuki; Nagao, Akihito; Misumi, Masanori; Yamashita, Akinori; and Okazaki, Katsumi, 4,714,063, Cl. 123-308.000.
Nagao, Eijiro, to Fuji Photo Film Co., Ltd. Flattened cardboard box supplying apparatus. 4,635,428, 1-13-87, Cl. 53-542.000.
Nagao, Kenichi: *See*—
Shiotari, Yoshihisa; and Nagao, Kenichi, 4,688,070, Cl. 357-40.000.
Nagao, Kunihiko, to G-C Dental Industrial Corp.; and Mitsubishi Rayon Co., Ltd. Apparatus for curing resin films coated on dental resin prosthesis. 4,645,649, 2-24-87, Cl. 422-186.300.
Nagao, Masami; and Oosawa, Tadakazu, to Kirin Beer Kabushiki Kaisha. Bottle opening machine. 4,635,509, 1-13-87, Cl. 81-3.200.
Nagao, Naotake: *See*—
Oimura, Katsuhiko; Misumi, Haruo; Ogawa, Hiroshi; and Nagao, Naotake, 4,675,518, Cl. 250-205.000.
Nagao, Nobuaki: *See*—
Hatakeyama, Tetsuo; Uera, Yoshinori; and Nagao, Nobuaki, 4,715,553, Cl. 242-68.400.
Nagao, Shozo; Mitani, Naoyuki; and Nakagawa, Teruyuki, to Toray Industries, Inc. Fluid separation method and apparatus. 4,676,905, 6-30-87, Cl. 210-646.000.
Nagao, Takaaki; Hatamura, Yotaro; and Ono, Kozo, to Nagao, Takaaki; Hatamura, Yotaro; and Hitachi Construction Machinery Co., Ltd. Profile working machine. 4,666,352, 5-19-87, Cl. 409-153.000.
Nagao, Taku: *See*—
Nakai, Hideo; Wada, Hiroshi; Nagao, Taku; and Yabana, Hideo, 4,689,327, Cl. 514-252.000.
Takeda, Mikio; Oh-ishi, Tokuro; Nakajima, Hiromichi; and Nagao, Taku, 4,665,068, Cl. 514-211.000.
Nagao, Teruyuki; Kawamura, Yuji; and Kashima, Koichi, to Diesel Kiki Co., Ltd. Air conditioner. 4,696,340, 9-29-87, Cl. 165-58.000.
Nagao, Yasuyuki: *See*—
Mimura, Yoshinori; and Nagao, Yasuyuki, 4,702,791, Cl. 156-614.000.
Nagaoka, Akira: *See*—
Araki, Tsunehiko; Matsuda, Hiroshi; Kayanoki, Kazuhito; and Nagaoka, Akira, 4,656,462, Cl. 340-556.000.
Nagaoka, Hiroyasu: *See*—
Kobayashi, Masafumi; Nagaoka, Hiroyasu; Hayakawa, Hiroshi; and Kogai, Masamiti, 4,665,832, Cl. 104-165.000.
Nagaoka, Junichi, to Takara Co., Ltd. Toy vehicle assembly with multiple drive units. 4,710,148, 12-1-87, Cl. 446-464.000.
Nagaoka Kanaai Kabushiki Kaisha: *See*—
Nagaoka, Tadayoshi, 4,657,079, Cl. 166-231.000.

Nagaoka, Kazuo; Isobe, Tomoichi; Kanaoagi, Toshihiko; Suzuki, Nobuyuki; Wakabayashi, Sadao; Uchida, Kenji; Tsukamoto, Hideharu; Ohno, Mitsuru; and Shimano, Tadahiko, to Sony Magnescale Incorporation. Linear scale. 4,649,648. 3-17-87. Cl. 33-125.00R.

Nagaoka, Kenji. See—
Ueno, Katsuji; Nagaoka, Kenji; Miyashita, Akira; and Ebina, Satoshi. 4,639,344. Cl. 264-83.000.

Nagaoka, Satoshi. See—
Ogawa, Tadashi; Arakawa, Jun; Nagaoka, Satoshi; Ohashi, Yuichi; and Tamoto, Koji. 4,652,515. Cl. 430-505.000.

Nagaoka, Shigenori. See—
Hagiwara, Tatsuo; Imai, Keiji; and Nagaoka, Shigenori. 4,637,562. Cl. 241-259.200.
Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu. 4,645,133. Cl. 241-182.000.
Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu. 4,664,321. Cl. 241-176.000.
Imai, Keiji; Nagaoka, Shigenori; Kogumazaka, Shinji; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu. 4,666,591. Cl. 209-18.000.

Nagaoka, Shinji, to Seiko Koki Kabushiki Kaisha. Distance detecting device for a camera. 4,648,760. 3-10-87. Cl. 354-403.000.

Nagaoka, Shinji, to Seiko Koki Kabushiki Kaisha. Automatic film sensitivity setting device for camera. 4,655,568. 4-7-87. Cl. 354-21.000.

Nagaoka, Shinji. See—
Ogihara, Masao; Ishida, Hiroaki; Nagaoka, Shinji; and Sato, Koji. 4,634,254. Cl. 354-403.000.
Saito, Takeo; and Nagaoka, Shinji. 4,660,949. Cl. 354-21.000.

Nagaoka, Tadayoshi, to Nagaoka Kanaae Kabushiki Kaisha. Screen. 4,657,079. 4-14-87. Cl. 166-231.000.

Nagaoka, Takashi. See—
Mase, Masahiro; Nagaoka, Takashi; Tsutsumi, Yoshitsugu; Taniyama, Minoru; and Terajima, Makoto. 4,569,160. Cl. 415-90.000.

Nagaoka, Tatsuo, to Nagaokaseiki Seisakusho Co. Ltd. Apparatus for cutting off a head and a root of bulbs. 4,658,713. 4-21-87. Cl. 99-636.000.

Nagaoka, Yoshitomi, Matsuda, Yoshiteru; Hirao, Yoshiaki; Koga, Ryuichiro; and Asakura, Hiroyuki, to Matsushita Electric Industrial Co., Ltd. Automatic focusing apparatus for camera. 4,673,274. 6-16-87. Cl. 354-403.000.

Nagaoka, Yoshitomi. See—
Nakajima, Yasuo; Yamamoto, Yoshiharu; Miyatake, Yoshito; Nagaoka, Yoshitomi; and Ono, Shusuke. 4,690,515. Cl. 350-432.000.
Yamamoto, Yoshiharu; Miyatake, Yoshito; Nakajima, Yasuo; Nagaoka, Yoshitomi; and Ono, Syusuke. 4,704,009. Cl. 350-432.000.

Nagaoka, Yukiko. See—
Miwa, Kohei; Nagaoka, Yukiko; and Inoue, Takehisa. 4,698,453. Cl. 585-828.000.

Nagaokaseiki Seisakusho Co. Ltd. See—
Nagaoka, Tatsuo. 4,658,713. Cl. 99-636.000.

Nagara, Hisao. See—
Shimamoto, Hideki; Miyazaki, Yoshio; Aoshima, Youichi; Tomiyasu, Tsuyoshi; Nagara, Hisao; Kuwae, Yoshiteru; and Shimoo, Kazushi. 4,652,968. Cl. 361-319.000.

Nagarai, D. R., and Wang, Samuel S., to American Cyanamid Company. Monothiophosphinates as acid, neutral, or mildly alkaline circuit sulfide collectors and process for using same. 4,661,278. 4-28-87. Cl. 252-61.000.

Nagarajan, Ramakrishnan; and Schabel, Amelia A., to Eli Lilly and Company. Modified glycopeptides. 4,643,987. 2-17-87. Cl. 514-8.000.

Nagarajan, Ramakrishnan; and Schabel, Amelia A., to Eli Lilly and Company. Novel glycopeptide derivatives. 4,698,327. 10-6-87. Cl. 514-8.000.

Nagarajan, Ramakrishnan. See—
Hunt, Ann H.; Molloy, R. Michael; Nagarajan, Ramakrishnan; and Schabel, Amelia A. 4,639,433. Cl. 514-8.000.

Nagarekawa, Osamu; and Matsui, Shigekazu. Method of manufacturing a mask blank including a modified chromium compound. 4,657,845. 4-14-87. Cl. 204-192.260.

Nagarwalla, Phiroze J. See—
Bello, Kenneth E.; Brown, Jackson E.; and Nagarwalla, Phiroze J. 4,714,108. Cl. 164-18.000.

Nagaoka, Chikao; Kato, Hiroyuki; Ohno, Hirofumi; and Irifune, Shinichi, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Rotary indicating device. 4,655,546. 4-7-87. Cl. 350-99.000.

Nagaoka, Chikao. See—
Baba, Takeshi; owasa, Hiroki; Nagaoka, Chikao; and Ohno, Kyozo. 4,645,299. Cl. 350-99.000.

Nagaoka, Hideki. See—
Miyata, Kouzo; Nagaoka, Hideki; Takahashi, Noriaki; Ochiai, Tamenichi; and Takasaki, Ryuichiro. 4,650,741. Cl. 430-192.000.

Nagaoka, Hideo. See—
Itoh, Tsutomu; Tateno, Haruo; Nagaoka, Hideo; Yamamoto, Masahiro; Mihayoshi, Yosuke; Matsuno, Susumu; Saitoh, Hiroshi; and Kishi, Masayuki. 4,670,290. Cl. 427-34.000.

Nagaoka, Hiroko; and Motegi, Nawoto, to Kabushiki Kaisha Toshiba. Dry etching method of compound semiconductor. 4,640,737. 2-3-87. Cl. 156-643.000.

Nagaoka, Hiroshi. See—
Shiroi, Hisatoki; Kuchi, Mitsuharu; Takayama, Mutsu; Honma, Tadao; Nagaoka, Hiroshi; and Kaneko, Yoshikazu. 4,657,775. Cl. 427-38.000.

Nagaoka, Hiroyasu; Kamidaira, Kunio; Ito, Hiroshi; and Utsumi, Mitsuo, to Daido Tokushuko Kabushiki Kaisha. Method of measuring temperatures and portable recorder for storing temperature data. 4,636,093. 1-13-87. Cl. 374-186.000.

Nagasaka, Mitsuaki. See—
Ohno, Sachio; Ebihara, Yuko; Mizukoshi, Kiyoshi; Ichihara, Kunihun, Takao; and Nagasaka, Mitsuaki. 4,713,457. Cl. 546-67.00.

Nagasaka, Nagahiko, to Kabushiki Kaisha Yaskawa Denki Seisakusho. Permanent magnet type linear electromagnetic actuator. 4,701,20 10-27-87. Cl. 335-222.000.

Nagasaka, Nagahiko, to Kabushiki Kaisha Yaskawa Denki Seisakusho. Linear resolver. 4,705,971. 11-10-87. Cl. 310-12.000.

Nagasaka, Nagahiko, to Kabushiki Kaisha Yaskawa Denki Seisakusho. Surface pulse motor. 4,706,007. 11-10-87. Cl. 315-61.000.

Nagasaka, Yasumasa, to Toyota Jidosha Kabushiki Kaisha. Device tightening a coil on a cylindrical body. 4,636,160. 1-13-87. Cl. 425-190.000.

Nagasaka, Yasumasa; and Takasaki, Akira, to Toyota Jidosha Kabushiki Kaisha. Multi-cylinder type injection molding apparatus. 4,699,9 10-13-87. Cl. 425-155.000.

Nagasaki, Fumihiko. See—
Ikura, Katsuyata; Hagiwara, Kenji; Nagasaki, Fumihiko; Yamaguchi, Tomio; Takahashi, Hidemitsu; and Hatano, Renpei. 4,711,26 Cl. 514-594.000.

Nagasaki, Haruki; Kitamura, Masami; and Iguchi, Yuji, to Matsushita Electric Works, Ltd. Trimmer construction for electric shaver. 4,649,642. 3-17-87. Cl. 30-34.100.

Nagasaki, Kousuke, to Kabushiki Kaisha Irifune. Apparatus for p tion of a processing food. 4,697,507. 10-6-87. Cl. 99-483.000.

Nagasaki, Kousuke. Method of preparation of fish-noodle. 4,704,29 11-3-87. Cl. 426-513.000.

Nagasaki, Kunikazu. See—
Endo, Hiroshi; Arai, Masakazu; Nishikawa, Shigeo; Sato, Masamori; Tanaka, Masahiro; Nagasaki, Kunikazu; and Matsuo, Shigeki. 4,698,191. Cl. 264-50.000.

Nagasaki, Takeshi; and Sawada, Koichi, to Nakagawakikaiseisakujo Kabushikikaisha. Cam operated switch. 4,677,260. 6-30-87. Cl. 20 6.0BB.

Nagasaki, Tatsuo; and Fujimori, Hiroyoshi, to Olympus Optical Co. Ltd. Illuminating means for color image viewing. 4,618,151. 1-20-8 Cl. 358-98.000.

Nagasaki, Tatsuo; and Fujimori, Hiroyoshi, to Olympus Optical Co. Ltd. Endoscope equipment. 4,653,478. 3-31-87. Cl. 128-6.000.

Nagasaki, Tatsuo; and Fujimori, Hiroyoshi, to Olympus Optical Company, Ltd. Image pickup apparatus for endoscopes. 4,663,657. 5-5-8 Cl. 358-98.000.

Nagasaki, Tatsuo. See—
Fujimori, Hiroyoshi; and Nagasaki, Tatsuo. 4,711,883. Cl. 358-42.000.
Yuzuki, Yutaka; and Nagasaki, Tatsuo. 4,646,964. Cl. 128-4.000.

Nagasawa, Hiroaki. See—
Ohmura, Kazumi; Suyama, Yasuyuki; and Nagasawa, Hiroaki. 4,664,575. Cl. 414-12.000.

Nagasawa, Hiroyuki. See—
Tani, Tatsuhiro; Nagasawa, Hiroyuki; Tomite, Toru; Tohru Kiyomasa; and Takahashi, Akira. 4,644,201. Cl. 310-51.000.

Nagasawa, Kazumasa. See—
Shibata, Takeo; and Nagasawa, Kazumasa. 4,698,190. Cl. 264-40.200.

Nagasawa, Ken. See—
Fukuda, Noriyoshi; and Nagasawa, Ken. 4,637,908. Cl. 264-29.10

Nagasawa, Kenichi; and Takayama, Nobutoshi, to Canon Kabushiki Kaisha. Multiple mode rotary head reproducing apparatus with integrator control of speed. 4,677,503. 6-30-87. Cl. 360-73.000.

Nagasawa, Kenichi. See—
Edakubo, Hiroo; and Nagasawa, Kenichi. 4,653,102. Cl. 358-310.000.
Kozuki, Susumu; Nagasawa, Kenichi; Edakubo, Hiroo; Sato, Junichi; and Takayama, Nobutoshi. 4,618,990. Cl. 360-74.100.
Kozuki, Susumu; Takayama, Nobutoshi; Edakubo, Hiroo; Ushiro, Tatsuzo; Takei, Masahiro; and Nagasawa, Kenichi. 4,665,440. Cl. 360-77.000.
Matsu, Toshiyuki; Hirasawa, Masahide; Kozuki, Susumu; Kubik, Motokazu; Takei, Masahiro; and Nagasawa, Kenichi. 4,675,80 Cl. 371-31.000.
Matsunaga, Makoto; Muramoto, Tomotaka; and Nagasawa, Kenichi. 4,679,066. Cl. 358-29.000.
Takayama, Nobutoshi; Harigaya, Isao; and Nagasawa, Kenichi. 4,675,753. Cl. 360-27.000.

Nagasawa, Kiyoshi; Inoue, Toru; and Kadowazaki, Susumu, to Hitachi Ltd. Control system for brushless DC motor. 4,712,050. 12-8-87. Cl. 318-254.000.

Nagasawa, Kiyoshi. See—
Inoue, Toru; Nagasawa, Kiyoshi; and Ya e, Kyoru. 4,580,19 Cl. 318-254.000.
Tokairin, Hiroaki; Hosoma, Kazuo; Nakajima, Kaichi; Nagasawa, Kiyoshi; and Aritake, Takeshi. 4,710,884. Cl. 364-513.000.

Nagasawa, Kohtaro; and Murakubo, Junio, to Somar Corporation. Light-sensitive negative working composition with diazonium condensate, epoxy resin, and combination of polymers with acrylic groups. 4,681,833. 7-21-87. Cl. 430-175.000.

Nagasawa, Kouichi. See—
Okuyama, Kousuke; Suzuki, Norio; Meguro, Satoshi; and Nagasawa, Kouichi. 4,617,124. Cl. 29-571.000.

Nagasawa, Kunihiko, to Pioneer Electronic Corporation. Computer system with a back-up power supply. 4,658,352. 4-14-87. Cl. 364-200.000.

agawa, Masanori, to Fujitsu Limited. Semiconductor memory device with charging circuit. 4,644,501, 2-17-87, Cl. 365-203.000

agawa, Naomi. *See*—
Yamaguchi, Takashi; Nagasawa, Naomi; and Tamura, Hidemasa.

agawa, Satoshi, to Futaba Denshi Kogyo Kabushiki Kaisha. Code regenerative system. 4,665,535, 5-12-87, Cl. 375-120.000

agawa, Takeshi; Nakamura, Yoshio; and Kurorwa, Katsumasa, to Shin Bowei Co., Ltd. Novel substrates for use in measuring the concentration of kallikrein in urine. 4,650,753, 3-17-87, Cl. 435-23.000

agawa, Takeshi. *See*—
Nakamura, Takuji, Otsuki, Toshinori; Nagasawa, Takeshi; and Bettoto, Yoshiharu, 4,667,252, Cl. 358-286.000

agawa, Tomomori, and Uchijima, Hisashi, to Sony Corporation. Image tube circuit. 4,645,983, 2-24-87, Cl. 315-370.000

agawa, Yasuo. *See*—
Mikami, Toshio; and Nagasawa, Yasuo, 4,680,528, Cl. 320-32.000

agawa, Yoshiaki. *See*—
Shibuki, Osamu; Matsuyama, Noboru; Nagasawa, Yoshiaki; Kawai, Kazuhiro; Sakagami, Shigeru; and Oneyama, Toshiaki, 4,641,065, Cl. 318-135.000

agase, Fumio. *See*—
Esumi, Katsuya; Kawamura, Soichi; Nagase, Fumio; and Aikawa, Shinichi, 4,709,285, Cl. 360-104.000

agase, Hiroshi. *See*—
Sugiyama, Norihide; Funato, Katsuro; Nagase, Hiroshi; Yamamoto, Soichi; and Miyamori, Shigeo, 4,702,989, Cl. 430-137.000

agase, Masao. *See*—
Takahashi, Toshifuru; Sueda, Noriyoshi; Tsuji, Masahiro; Tahara, Yoshiyuki; Koyama, Hiroyasu; Suzuki, Yoshikuni; Nagase, Masao; and Sugai, Toshiji, 4,659,833, Cl. 546-142.000

agase, Masayoshi; Takemoto, Eiji; Ibuki, Noritaka; and Hasegawa, Takashi, to Toyota Jidosha Kabushiki Kaisha. Method and device for controlling fuel injection quantity of electronic control diesel engine. 4,714,985, 12-22-87, Cl. 123-506.000

agase, Masayoshi. *See*—
Matsumoto, Hisashi; Motegami, Yoshikazu; Miyahara, Masahiko; Inoue, Takuta; Hasegawa, Koichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Masaomi; Takai, Mamoru; Nagase, Masayoshi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000

Matsuno, Kiyotaka; Nagase, Masayoshi; and Tsukamoto, Keisuke, 4,643,154, Cl. 123-501.000

agase Medical Supply Co., Ltd. *See*—
Kasai, Hideo; Komba, Toshimori; and Mogi, Eiji, 4,694,571, Cl. 29-836.000

agase, Naoki. *See*—
Tohida, Masaaki, Yoshikawa, Ryoichi; Nagase, Naoki; and Yamada, Masamori, 4,656,466, Cl. 340-716.000

agase Sangyo Kabushiki Kaisha. *See*—
Koyama, Arao, 4,638,146, Cl. 219-147.000

agase, Toshio. *See*—
Ito, Yasushi; and Nagase, Toshio, 4,707,315, Cl. 264-129.000

Tsuji, Takashi; Kobayashi, Shozo; and Nagase, Toshio, 4,636,196, Cl. 604-122.000.

agase, Yasuo. *See*—
Kita, Shuji; Ishida, Tsuyoshi; and Nagase, Yasuo, 4,691,100, Cl. 250-223.00R

Onuda, Toshiro; Kosugi, Kenichi; and Nagase, Yasuo, 4,691,900, Cl. 270-58.000.

agase, Yoshimori. *See*—
Ohara, Ikuo; Yamauchi, Junichi; Nagase, Yoshimori; and Uemura, Fumio, 4,650,847, Cl. 526-376.000

agase, Yukio; Egami, Hideni; Takeuchi, Tatsuo; and Satomura, Hiroshi, to Canon Kabushiki Kaisha. Method and apparatus for electrically charging or discharging. 4,700,261, 10-13-87, Cl. 361-225.000.

agase, Yukio. *See*—
Ikuno, Nagao; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hideni; and Satomura, Hiroshi, 4,709,298, Cl. 361-213.000

Iida, Yutaka; Satomura, Hiroshi; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hideni; and Hosaka, Akihiro, 4,697,196, Cl. 346-139.000.

Satomura, Hiroshi; Takeuchi, Tatsuo; Egami, Hideni; Nagase, Yukio; and Hosomi, Nagao, 4,674,857, Cl. 355-3.000R

ashima, Akira, to Kioritz Corporation. Heated handle for a chain saw. 4,654,970, 4-7-87, Cl. 30-383.000

ashima, Akira, to Kioritz Corporation. Silencing filter. 4,681,608, 7-21-87, Cl. 55-276.000.

ashima, Akira, to Kioritz Corporation. Switch terminal. 4,682,830, 7-28-87, Cl. 439-224.000

ashima, Akira; and Sukegawa, Osamu, to Japan Atomic Energy Research Institute; and NEC Corporation. Optical pumping laser system. 4,683,576, 7-28-87, Cl. 372-98.000

ashima, Akira, to Kioritz Corporation. Chain with cutting teeth. 4,702,139, 10-27-87, Cl. 83-830.000

ashima, Akira, to Kioritz Corporation. Sprocket wheel for driving saw chain of chain saw. 4,715,845, 12-29-87, Cl. 474-152.000.

ashima, Akira. *See*—
Sigano, Ferruo; Toyama, Tadao; and Nagashima, Akira, 4,701,399, Cl. 430-179.000

Iwaki, Takamobu; and Nagashima, Akira, 4,681,188, Cl. 181-239.000

Nagashima, Eiji. *See*—
Nagashima, Yoichi; Kondo, Tatsunori; Takagi, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,706, Cl. 84-1.010.

Nagashima, Yoichi; Kondo, Tatsunori; Takagi, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,638,709, Cl. 84-1.190.

Nagashima, Yoichi; and Nagashima, Eiji, 4,644,841, Cl. 84-1.100

Nagashima, Yoichi; Kondo, Tatsunori; Takagi, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, 4,646,611, Cl. 84-1.190.

Nagashima, Hideo. *See*—
Arai, Yoshio; and Nagashima, Hideo, 4,688,852, Cl. 297-410.000.

Nagashima, Hideyuki, to Nissan Motor Co., Ltd. Seat belt retractor. 4,714,274, 12-22-87, Cl. 280-801.000.

Nagashima, Hironobu; and Asai, Noriyuki, to Asahi Kogaku Kogyo Kabushiki Kaisha. Output control device for electrical apparatus. 4,704,677, 11-3-87, Cl. 364-183.000.

Nagashima, Masatomo; Nozaki, Mineo; Asakura, Osamu; and Uchikata, Yoshio, to Canon Kabushiki Kaisha. Multi-color recording apparatus. 4,692,774, 9-8-87, Cl. 346-76.0PH.

Nagashima, Masatomi. *See*—
Asakura, Osamu; Nozaki, Mineo; Nagashima, Masatomi; and Uchikata, Yoshio, 4,636,810, Cl. 346-76.0PH.

Asakura, Osamu; Nozaki, Mineo; Nagashima, Masatomi; and Uchikata, Yoshio, 4,669,897, Cl. 400-121.000.

Asakura, Osamu; Nozaki, Mineo; Uchikata, Yoshio; and Nagashima, Masatomi, 4,699,534, Cl. 400-568.000.

Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masatomi, 4,639,744, Cl. 346-76.0PH.

Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masatomi, 4,672,393, Cl. 346-76.0PH.

Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masatomi, 4,676,683, Cl. 400-656.000.

Uchikata, Yoshio; Nozaki, Mineo; Nagashima, Masatomi; and Asakura, Osamu, 4,709,242, Cl. 346-76.0PH.

Nagashima, Masayasu; and Iijima, Nobuo, to Fujitsu Limited. Method and apparatus for transporting an article in vacuum. 4,690,593, 9-1-87, Cl. 406-88.000.

Nagashima, Masayoshi; Takahashi, Tomohiko; Higure, Naoto; and Fukuda, Kanehiro, to Kabushiki Kaisha Toshiba. Image building apparatus. 4,642,659, 2-10-87, Cl. 346-76.0PH.

Nagashima, Michiyoshi. *See*—
Takemura, Yoshinari; Ohara, Kazuaki; and Nagashima, Michiyoshi, 4,712,204, Cl. 369-32.000.

Yamada, Noboru; Nagashima, Michiyoshi; and Nishiuchi, Kenichi, 4,710,911, Cl. 369-100.000

Nagashima, Mitsuyoshi; Hatwse, Toshikazu; Miyashita, Masakazu; and Kanai, Akira, to Citizen Watch Co., Ltd. Table mechanism for controlling table attitude. 4,653,408, 3-31-87, Cl. 108-20.000.

Nagashima, Nao, to Canon Kabushiki Kaisha. Image processing apparatus. 4,679,096, 7-7-87, Cl. 358-287.000.

Nagashima, Nao, to Canon Kabushiki Kaisha. Image reading apparatus. 4,691,365, 9-1-87, Cl. 382-54.000.

Nagashima, Nao, to Canon Kabushiki Kaisha. Image processing system. 4,695,895, 9-22-87, Cl. 358-280.000.

Nagashima, Nao, to Canon Kabushiki Kaisha. Image processing system. 4,700,234, 10-13-87, Cl. 358-260.000.

Nagashima, Nao, to Canon Kabushiki Kaisha. Image processing apparatus with variable magnification and gray level processing. 4,701,808, 10-20-87, Cl. 358-287.000.

Nagashima, Satoshi, to Sakae Ringyo Co., Ltd. Multiple sprocket wheel. 4,642,075, 2-10-87, Cl. 474-160.000.

Nagashima, Shigeo. *See*—
Hatakeyama, Yasuhiko; and Nagashima, Shigeo, 4,641,275, Cl. 364-900.000.

Omoda, Koichiro; Nagashima, Shigeo; and Torii, Shunichi, 4,651,274, Cl. 364-200.000.

Omoda, Koichiro; and Nagashima, Shigeo, 4,677,547, Cl. 364-200.000

Omoda, Koichiro; and Nagashima, Shigeo, 4,680,730, Cl. 364-900.000.

Torii, Shunichi; Nagashima, Shigeo; and Omoda, Koichiro, 4,712,175, Cl. 364-200.000.

Nagashima, Sumio; Suzuki, Eiwaji; Chiyoda, Kiyomi; and Kodama, Masahiro, to Tokyo Shibaura Denki Kabushiki Kaisha. Pattern position detecting apparatus. 4,644,584, 2-17-87, Cl. 382-14.000.

Nagashima, Tetsuya. *See*—
Matsushita, Eige; and Nagashima, Tetsuya, 4,644,511, Cl. 340-557.000

Nagashima, Yasuo; and Kasuga, Akira, to Fuji Photo Film Co., Ltd. Flexible magnetic disc, positioning apparatus and method permitting improved head contact. 4,646,179, 2-24-87, Cl. 360-99.000.

Nagashima, Yasuo, to Fuji Photo Film Co., Ltd. Regulating apparatus and method for use with rotary magnetic recording sheet permitting improved head contact. 4,661,871, 4-28-87, Cl. 360-99.000.

Nagashima, Yoichi; Kondo, Tatsunori; Takagi, Kiyomi; and Kitamura, Mineo, to Kabushiki Kaisha Kawai Gakki Seisakusho. Electronic musical instrument. 4,635,517, 1-13-87, Cl. 84-1.010.

Nagashima, Yoichi; Kondo, Tatsunori; Takagi, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, to Kabushiki Kaisha Kawai Gakki Seisakusho. Electronic musical instrument with note frequency data setting circuit and interpolation circuit. 4,638,706, 1-27-87, Cl. 84-1.010.

Nagashima, Yoichi; Kondo, Tatsunori; Takagi, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi,

Masafumi, to Kabushiki Kaisha Kawai Gakki Seisakusho. Electronic musical instrument with temporal variation data generating circuit and interpolation circuit. 4,638,709, 1-27-87, Cl. 84-1.190.
Nagashima, Yoichi, to Kabushiki Kaisha Kawai Gakki Seisakusho. Electronic musical instrument. 4,641,563, 2-10-87, Cl. 84-1.010.
Nagashima, Yoichi, and Nagashima, Eiji, to Kabushiki Kaisha Kawai Gakki Seisakusho. Electronic musical instrument. 4,644,841, 2-24-87, Cl. 84-1.100.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Mizoguchi, Masafumi, to Kabushiki Kaisha Kawai Gakki Seisakusho. Electronic musical instrument. 4,646,611, 3-3-87, Cl. 84-1.190.
Nagashima, Yosuhisa: *See*—
Sakakibara, Takao; Toyoda, Tsunchiko; and Nagashima, Yoshihisa, 4,681,712, Cl. 264-24.000.
Nagashima, Yoshikazu: *See*—
Iino, Tadashi; Nagashima, Yoshikazu; and Sugita, Masaya, 4,711,544, Cl. 353-14.000.
Nagashima, Yukio: *See*—
Fujita, Masahito; Miyazaki, Makoto; Kizaki, Masami; Nagashima, Yukio; and Shimbori, Yuichi, 4,678,768, Cl. 502-119.000.
Nagashima, Yutaka: *See*—
Fujiwara, Satoru; Mochizuki, Teiichi; Maeda, Kensaku; and Nagashima, Yutaka, 4,671,081, Cl. 62-469.000.
Maeda, Kensaku; Fujiwara, Satoru; Mochizuki, Teiichi; and Nagashima, Yutaka, 4,669,279, Cl. 62-505.000.
Nagata, Akio: *See*—
Koreeda, Masakuni; Nagata, Akio; and Tochihara, Sadamoto, 4,670,002, Cl. 494-10.000.
Nagata, Daisaburo, to Mitsubishi Denki Kabushiki Kaisha. Nuclear fusion reactor. 4,689,192, 8-25-87, Cl. 376-150.000.
Nagata, Daisaburo: *See*—
Kuno, Kazuo; Ichihara, Tadashi; Fukumoto, Shintaro; and Nagata, Daisaburo, 4,664,867, Cl. 376-142.000.
Kuno, Kazuo; Ichihara, Tadashi; Fukumoto, Shintaro; and Nagata, Daisaburo, 4,664,868, Cl. 376-142.000.
Nagata, Katsumi: *See*—
Takemura, Yoshinobu; Kawamoto, Masuo; Hashizume, Masahiro; and Nagata, Katsumi, 4,659,214, Cl. 355-75.000.
Nagata, Kazuya: *See*—
Maeda, Masahiko; Nagata, Kazuya; Otani, Taketsugu; and Saito, Yasutoki, 4,671,954, Cl. 428-209.000.
Nagata, Koichi, and Nakajima, Takeshi, to NEC Corporation. Radio paging receiver. 4,653,028, 3-24-87, Cl. 365-195.000.
Nagata, Koichi: *See*—
Ichikawa, Yoshio; Akahori, Masaaki; Ishii, Daisuke; Tsunoda, Kazuyuki; Minami, Yohichiro; and Nagata, Koichi, 4,639,726, Cl. 340-525.440.
Nishimura, Izumi; and Nagata, Koichi, 4,706,272, Cl. 379-57.000.
Nagata, Kouichi: *See*—
Tanaka, Kazuto; Kakizawa, Haruo; and Nagata, Kouichi, 4,639,099, Cl. 350-538.000.
Nagata, Kunio; Aoi, Tatsuo; Iwakiri, Norio; Osumi, Hiroshi; Ogata, Nobuyuki; and Yamane, Norihito, to Omron Tatessi Electronics Co. High precision and compact contact switch. 4,681,994, 7-21-87, Cl. 200-16.00B.
Nagata, Masami; Yanase, Sumio; and Setaka, Yousuke, to Nippondenso Co., Ltd. Control apparatus for brushless motor. 4,641,066, 2-3-87, Cl. 318-254.000.
Nagata, Masanori; Yoshida, Shinya; and Yamashita, Susumu, to Omron Tatessi Electronics Co. Voice recording card. 4,677,657, 6-30-87, Cl. 379-63.000.
Nagata, Masanori: *See*—
Johnston, William D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,654,240, Cl. 428-35.000.
Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,686,125, Cl. 428-35.000.
Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,692,361, Cl. 428-35.000.
Nagata, Masayuki: *See*—
Onishi, Toshitada; Tateishi, Hiroshi; Koyama, Kenichi; Saito, Shigeo; and Nagata, Masayuki, 4,659,007, Cl. 228-156.000.
Nagata, Minoru, to Kabushiki Kaisha Toshiba. Differential amplification circuit. 4,701,719, 10-20-87, Cl. 330-258.000.
Nagata, Mitsuo: *See*—
Oguchi, Koichi; Hosokawa, Minoru; Yazawa, Satoru; and Nagata, Mitsuo, 4,648,691, Cl. 350-338.000.
Nagata, Osamu; Kajima, Takashi; and Ozaki, Toshiharu, to Technological Research Association of Highly Reliable Marine Propulsion Plar. Electromagnet drive device. 4,688,138, 8-18-87, Cl. 361-154.000.
Nagata, Osamu, Kajima, Takashi; and Ozaki, Toshihara, to Technological Research Association of Highly Reliable Marine Propulsion Plant. Electromagnet drive device. 4,688,139, 8-18-87, Cl. 361-154.000.
Nagata, Osamu: *See*—
Sagawa, Ryuichi; Nagata, Osamu; and Yamada, Hajime, 4,715,339, Cl. 123-357.000.
Nagata, Satoshi, to Canon Kabushiki Kaisha. Image data output apparatus. 4,686,525, 8-11-87, Cl. 340-790.000.
Nagata, Satoshi, to Canon Kabushiki Kaisha. Image forming apparatus. 4,715,006, 12-22-87, Cl. 364-523.000.
Nagata, Shin-ichi: *See*—
Osaki, Shigeyoshi; and Nagata, Shin-ichi, 4,685,569, Cl. 209-571.000.
Nagata, Shiro: *See*—
Yoshikawa, Tadao; and Nagata, Shiro, 4,686,143, Cl. 428-411.100.
Yoshizawa, Tamae; Otsuka, Kiyoto; Nagata, Shiro; and Takamatsu, Hideo, 4,678,841, Cl. 525-353.000.
Nagata, Shoichi: *See*—
Ohashi, Kunio; Tonegawa, Tadashi; Nagata, Shoichi; and Nakamura, Masatsugu, 4,683,186, Cl. 430-84.000.
Nagata, Shoji: *See*—
Ohashi, Naohito; Nagata, Shoji; Nakatsuka, Masashi; Ishizuka, Kikuo; Katsube, Junki; Aomo, Shunji; and Sakurama, Teruo, 4,695,580, Cl. 514-412.000.
Nagata, Shojiro, to Tachikawa Spring Co., Ltd. Vertical adjustment support device for a vehicle seat. 4,659,052, 4-21-87, Cl. 248-575.00.
Nagata, Shunro: *See*—
Seki, Akira; Narita, Yuuki; Aso, Yoshio; and Nagata, Shunro, 4,675,964, Cl. 423-335.000.
Nagata, Sumio: *See*—
Akiyama, Shigeru; Ueno, Hidetoshi; Imagawa, Koji; Kitahara, Akira; Nagata, Sumio; Morimoto, Kazuo; Nishikawa, Tooru; and Itoh, Masao, 4,713,277, Cl. 428-131.000.
Nagata, Takeo: *See*—
Sase, Akira; Nagata, Takeo; Fukunaga, Masao; Sakurai, Yutaka; and Satomi, Yoshikatsu, deceased, 4,680,627, Cl. 358-101.000.
Nagata, Teruyuki; Kajimoto, Nobuyuki; Wada, Masaru; Nakayama, Hitoshi; and Yamada, Tadao, to Mitsui Toatsu Chemicals, Inc. Process for producing 1,3-dimethyl-2-imidazolidinone. 4,668,79 5-26-87, Cl. 548-317.000.
Nagata, Teruyuki: *See*—
Kajimoto, Nobuyuki; Tamaki, Akihiro; and Nagata, Teruyuki, 4,680,369, Cl. 528-76.000.
Kajimoto, Nobuyuki; Tamaki, Akihiro; and Nagata, Teruyuki, 4,689,387, Cl. 528-76.000.
Nagata, Tetsuya, to Seiko Seiki Kabushiki Kaisha. Compact grinder machine. 4,648,213, 3-10-87, Cl. 51-166.00R.
Nagata, Tetsuya; and Ohashi, Osamu, to Seiko Seiki Kabushiki Kaisha. Table feed apparatus. 4,688,354, 8-25-87, Cl. 51-165.800.
Nagata, Tetsuya: *See*—
Hattori, Yoshiyuki; Matsui, Kazuma; Imani, Yuichi; Kuno, Akira; Nagata, Tetsuya; Nakane, Koji; and Nomura, Ken, 4,715,663, Cl. 303-110.000.
Nagata, Tomizou, and Miyaoka, Norikuni, to Japan Tobacco Inc. Arbor guiding apparatus. 4,636,184, 1-13-87, Cl. 493-98.000.
Nagata, Tomizou; and Sakano, Makoto, to Japan Tobacco Inc. Packing paper receiving and folding apparatus. 4,650,449, 3-17-87, Cl. 493-84.000.
Nagata, Tomizou, and Miyaoka, Norikuni, to Japan Tobacco Inc. Packing paper receiving and folding method and apparatus. 4,674,997, 6-23-87, Cl. 493-93.000.
Nagata, Tomizou; Mutoh, Yoshiyuki; and Kobayashi, Kazutaka, to Japan Tobacco Inc. Cigarette stacking method and apparatus. 4,711,339, 12-8-87, Cl. 198-419.000.
Nagata, Toru; Aoshima, Chikara; Maeno, Hiroshi; and Tamamura, Hideo, to Canon Kabushiki Kaisha. Data imprinting device for a camera. 4,643,549, 2-17-87, Cl. 354-64.000.
Nagata, Tsuyoshi; and Fujita, Katsuto, to Sunstar Giken Kabushiki Kaisha. Coating device. 4,660,501, 4-28-87, Cl. 118-203.000.
Nagata, Tsuyoshi; and Fujita, Katsuto, to Sunstar Engineering Inc. Inspecting device for a thin film coating material with applicator-following detector. 4,707,613, 11-17-87, Cl. 250-572.000.
Nagata, Wataru; Aoki, Tsutomu; and Nishitani, Yasuhiro, to Shionogi & Co., Ltd. 1-oxadethia cephalosporin hydroxamic acid derivatives. 4,705,852, 11-10-87, Cl. 540-301.000.
Nagata, Yasuhisa, to Toho Rayon Co., Ltd. Prepregs and method for production thereof. 4,714,648, 12-22-87, Cl. 428-245.000.
Nagata, Yoichi: *See*—
Ishikawa, Toshikatsu; Teranishi, Haruo; Imai, Yoshikazu; and Nagata, Yoichi, 4,649,060, Cl. 427-57.000.
Nagata, Yoshinori, to NEC Corporation. Modulation system capable of improving a transmission system. 4,700,151, 10-13-87, Cl. 332-18.000.
Nagatani, Masamichi: *See*—
Miyamoto, Satoshi; and Nagatani, Masamichi, 4,639,295, Cl. 204-38.100.
Nagato, Nobuyuki; Mori, Hideki; Maki, Kenichiro; and Ishioka, Ryoji, to Showa Denko Kabushiki Kaisha. Process for production of epichlorohydrin. 4,634,784, 1-6-87, Cl. 549-521.000.
Nagato, Yoshio; and Sorai, Kazunori, to Kyocera Corporation. Decorative hard golden ceramic article. 4,639,426, 1-27-87, Cl. 501-96.000.
Nagatome, Yoshiaki: *See*—
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Sugisawa, Ko; Matsumura, Yasushi; Sengoku, Koji; and Nagatome, Yoshiaki, 4,678,677, Cl. 426-634.000.
Nagatomo, Katsuaki: *See*—
Kudo, Katsuyoshi; Nagatomo, Katsuaki; Yamamoto, Hideji; Nishita, Katsuyasu; and Ogawa, Yoshifumi, 4,664,767, Cl. 204-164.000.
Nagatomo, Masao: *See*—
Nakajima, Masayuki; Sato, Shinichi; Tokui, Akira; Kawai, Akira; Nagatomo, Masao; and Ozaki, Hiroji, 4,702,796, Cl. 156-653.000.
Nagatomo, Masatsugu, to Kabushiki Kaisha Komatsu Seisakusho. Apparatus for operating working element of excavator. 4,686,792, 8-18-87, Cl. 37-103.000.

Nagatomo, Shigemi: *See*—
Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hatori, Mitsuo; and Hattori, Hitoshi, 4,673,339, Cl. 418-15.000.
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Sakata, Hirotsugu; Nagatomo, Shigemi; Hayano, Makoto; and Hatori, Mitsuo, 4,696,630, Cl. 418-55.000.

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Katsuyama, Harumi; Arai, Fuminori; Miyazako, Takushi; and Nagatomo, Shigeru, 4,671,937, Cl. 422-56.000.

Nagatsu, Toshiharu: *See*—
Umezawa, Hamao; Takeuchi, Tomio; Nagatsu, Toshiharu; Hamada, Masa; Iwadare, Shuichi; Matsumoto, Ikuo; and Morishima, Hajime, 4,699,879, Cl. 435-116.000.

Nagatsu, Yoshio: *See*—
Irikura, Tsutomu; Nishino, Keigo; and Nagatsu, Yoshio, 4,654,349, Cl. 514-300.000.

Nagatsuka, Kenichi; and Watanabe, Hidenori, to Mitsubishi Kakoki Kaisha Ltd.; and Kakoki Engineering Service Co., Ltd. Vacuum wall crawler. 4,664,212, 5-12-87, Cl. 180-164.000.

Nagaura, Toru, to Sony Corporation. Organic electrolyte cell. 4,667,716, 8-18-87, Cl. 429-145.000.

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Nagaya, Hideshi; and Sato, Yoshio, to Pioneer Electronic Corporation. Cassette tape deck operating mechanism. 4,704,651, 11-3-87, Cl. 360-137.000.

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Hori, Makoto; Nagaya, Toshiatsu; Mukai, Hirokatsu; Niwa, Hitoshi; and Miwa, Naoto, 4,716,279, Cl. 219-541.000.

Nagayama, Haruhiko, to Ricoh Company, Ltd. Photoconductive element unit for laser printer or the like. 4,674,858, 6-23-87, Cl. 355-10BF.

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Nagayama, Kousei: *See*—
Haramaki, Takashi; Funamoto, Takao; Kokura, Satoshi; Inagaki, Masahisa; Jimbou, Ryutaro; Sasaki, Toshimi; and Nagayama, Kousei, 4,691,856, Cl. 228-194.000.
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Matsumoto, Mutsuo; and Nagayama, Kuniaki, 4,675,071, Cl. 156-621.000.

Nagayama, Masaaki: *See*—
Kobayashi, Mineo; Yoshida, Takeshi; Aoki, Masahiro; Okubo, Masao; and Nagayama, Masaaki, 4,659,397, Cl. 148-12.00E.
Saito, Kiichi; Aoki, Masahiro; Ikeda, Noriyasu; Miki, Masayoshi; and Nagayama, Masaaki, 4,653,684, Cl. 228-263.150.

Nagayama, Sekio: *See*—
Yamawaki, Ichiro; Ogawa, Kazuo; Ono, Naohiko; Honma, Takaji; Nagayama, Sekio; and Yasumoto, Mitsugi, 4,696,929, Cl. 514-253.000.

Nagayama, Susumu: *See*—
Yamazaki, Shunpei; Itoh, Kenji; and Nagayama, Susumu, 4,680,855, Cl. 29-583.000.
Yamazaki, Shunpei; and Nagayama, Susumu, 4,704,624, Cl. 357-30.000.
Yamazaki, Shunpei; and Nagayama, Susumu, 4,706,376, Cl. 437-4.000.
Yamazaki, Shunpei; Itoh, Kenji; and Nagayama, Susumu, 4,713,518, Cl. 219-121.01.M.

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Wakita, Kazuto; Tsuchiya, Kazuo; Nagayasu, Isao; and Emoto, Ikuo, 4,642,260, Cl. 428-215.000.

Nagayasu, Katsumi: *See*—
Honda, Masaru; Chiba, Takanori; Imokawa, Toshiaki; Harada, Yoshito; and Nagayasu, Katsumi, 4,686,145, Cl. 428-425.900.

Nagayasu, Tadahito: *See*—
Hasegawa, Katsumi; Ohno, Michio; Nagayasu, Tadahito; and Umeda, Kazuo, 4,702,871, Cl. 264-101.000.

Nagayoshi, Eri: *See*—
Hirai, Yutaka; Tortsu, Masaaki; and Nagayoshi, Eri, 4,665,176, Cl. 544-258.000.

Nagayoshi, Yoshimasa: *See*—
Hiramatsu, Takeo; and Nagayoshi, Yoshimasa, 4,662,488, Cl. 192-3.580.
Hiramatsu, Takeo; and Nagayoshi, Yoshimasa, 4,676,336, Cl. 180-233.000.

Nagel, Colin M.: *See*—
Heath, Robert B.; and Nagel, Colin M., 4,681,368, Cl. 297-250.000.

Nagel, Dietmar: *See*—
Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Avi, 4,642,066, Cl. 446-420.000.
Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A., 4,643,695, Cl. 446-427.000.
Kennedy, Melvin R.; Nagel, Dietmar; and Arad, Abraham A., 4,680,020, Cl. 446-414.000.
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Nagel, Gregory L.; Lee, Anthony; and Hill, Warren D., to General Motors Corporation. Method and apparatus for resistance welding. 4,678,887, 7-7-87, Cl. 219-117.100.

Nagel, Gregory L.; Sidlosky, David M.; Murty, Balarama V.; Lee, Anthony; and Cleveland, Dixon, to General Motors Corporation. Method and apparatus for monitoring and controlling resistance spot welding. 4,694,135, 9-15-87, Cl. 219-110.000.

Nagel, Hans: *See*—
Harting, Dietmar; Nagel, Hans; and Piewitt, Gunter, 4,634,206, Cl. 339-103.00M.

Nagel, Karl: *See*—
Conzelmann, Gerhard; and Nagel, Karl, 4,689,711, Cl. 361-91.000.
Gunther, Uwe; Nagel, Karl; and Kalkhof, Bernd, 4,652,144, Cl. 374-178.000.

Nagel, Ulrich: *See*—
Andrade, Juan G.; Prescher, Gunter; and Nagel, Ulrich, 4,668,795, Cl. 548-412.000.
Beck, Wolfgang; and Nagel, Ulrich, 4,634,775, Cl. 548-402.000.

Nagele, Erwin: *See*—
Bertsch, Richard; Biermann, Eberhard; Gunther, Dieter; Ruppmann, Claus; and Nagele, Erwin, 4,665,757, Cl. 73-861.760.
Biermann, Eberhard; Nagele, Erwin; and Romann, Peter, 4,672,356, Cl. 338-184.000.

Nagengast, William E., Jr.: *See*—
Van Duyn, Paul D.; McMahan, David R.; Geddie, John D.; and Nagengast, William E., Jr., 4,707,771, Cl. 362-66.000.

Nager, Jurgen: *See*—
Braun, Gunter; Jundt, Werner; Miller, Norbert; and Nager, Jurgen, 4,689,746, Cl. 364-431.050.

Naghieh, Hamid R.: *See*—
Eidelman, William; Naghieh, Hamid R.; and Constantinou, Dennis, 4,657,014, Cl. 128-303.100.

Nagira, Keiji; and Fukui, Hiroshi, to Canon Kabushiki Kaisha. Thermal printer. 4,675,700, 6-23-87, Cl. 346-76.0PH.

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Ichida, Kozaburo; Nagira, Norichika; Murata, Mineo; and Namba, Tadashige, 4,704,167, Cl. 148-153.000.

Nagji, Moez M.: *See*—
Sherman, John D.; Nagji, Moez M.; Ross, Ronald J.; Austikatis, Joseph P.; and Garg, Desh R., 4,663,052, Cl. 210-679.000.

Nagl, Michael; Fugger, Gerhard; Mraz, Jaroslav; Matlander, Horst; Rottenmanner, Ernst; Rauber, Norbert; and Luger, Wolfgang, to Voest-Alpine Aktiengesellschaft. Apparatus for charging a shaft furnace for burning carbonaceous material. 4,708,643, 11-24-87, Cl. 432-95.000.

Nagle, Dennis C.: *See*—
Brupbacher, John M.; Christodoulou, Leontios; and Nagle, Dennis C., 4,710,348, Cl. 420-129.000.

Nagle, Elliott V., Jr.: *See*—
Cullo, Leonard A.; Nagle, Elliott V., Jr.; Restelli, Edward F., Jr.; and Yogan, Thomas J., 4,705,770, Cl. 502-242.000.

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Nagle, Richard T., to Power Alcohol, Inc. Process for converting cellulose to glucose and other saccharides. 4,699,124, 10-13-87, Cl. 127-37.000.

Nagler, Josef; and Ahlers, Utz-Udo, to Diehl GmbH & Co. Separating arrangement including an expansion chamber for a pyrotechnic charge. 4,646,642, 3-3-87, Cl. 102-378.000.

Nagler, Josef: *See*—
Brieseck, Bernd; and Nagler, Josef, 4,651,584, Cl. 74-102.000.
Brieseck, Bernd; and Nagler, Josef, 4,660,786, Cl. 244-324.000.

Nago, Kumio: *See*—
Kadono, Masaru; Nago, Kumio; Yamamoto, Tatsushi; Muramatsu, Tersuro; Tsuchimoto, Shuuhei; Yoshikawa, Mitsuhiko; and Tomita, Masatoshi, 4,702,935, Cl. 427-42.000.

Nagoda, Louis E.: *See*—
Moore, William G.; and Nagoda, Louis E., 4,713,566, Cl. 310-58.000.

Nagoshi, Fumiya: *See*—
Kakimoto, Osamu; and Nagoshi, Fumiya, 4,694,032, Cl. 523-334.000.

Nagoshi, Kazunori, to Tadaaki Sakai. Process for quick-freezing of meat. 4,654,217, 3-31-87, Cl. 426-524.000.

Nagoshi, Kazunori, to Tadaaki Sakai. Freezing method for perishable foods. 4,657,768, 4-14-87, Cl. 426-524.000.

Nagoshi, Mitsuru, to Konishiroku Photo Industry Co., Ltd. Optical system for reproducing apparatus. 4,634,261, 1-6-87, Cl. 355-8.000.

Nagoshi, Toshiharu; Totsuka, Hidehiko; Taira, Takeshi; Gotoh, Youkichi; and Senuma, Kazuya, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Core for an automobile bumper. 4,645,249, 2-24-87, Cl. 293-102.000.

Nagoya Institute of Technology: *See*—
Goto, Tomoko, 4,693,865, Cl. 420-572.000.

Nagoya Oilchemical Co., Ltd.: *See*—
Horiki, Seinosuke; Makino, Reiji; Ito, Kuninori; and Unno, Tetsuji, 4,714,633, Cl. 427-282.000.

Nagoya University, The President of: *See*—
Hattori, Shuzo; and Uchida, Yoshiyuki, 4,664,524, Cl. 356-401.000.

Nagra, Surjit S.; and Strilchuk, Andrew R., to Exxon Production Research Co. Process for remedial cementing. 4,648,453, 3-10-87, Cl. 166-281.000.
Nagtzaam, Nicolaas P.; Bronke, Cornelis; and Brasz, Albert J. H., to Stamicarbon B.V. Device and process for recovering polymer from a solution. 4,686,279, 8-11-87, Cl. 528-501.000.
Naguib, Hussein M.; Calder, Iain D.; Ho, Vu Q.; and Naem, Abdalla A., to Northern Telecom Limited. Process of fabricating MOS devices having shallow source and drain junctions. 4,683,645, 8-4-87, Cl. 437-41.000.
Nagumo, Daisuke: *See*—
Ueda, Kouzou; Nagumo, Daisuke; Shuto, Hirotetsu; and Kuriyama, Hirotaki, 4,682,686, Cl. 198-844.000.
Nagumo, Katsuyuki: *See*—
Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, 4,704,459, Cl. 546-123.000.
Watanabe, Isao; Momonoi, Kaoshu; Hirarwa, Toru; Ono, Satoshi; Nakano, Joji; Nagumo, Katsuyuki; and Takagi, Hiroyasu, 4,713,387, Cl. 514-332.000.
Nagumo, Masahide, to Kabushiki Kaisha Toshiba. Control system for deinterleaving memories in digital audio reproducing apparatus. 4,710,923, 12-1-87, Cl. 371-2.000.
Nagumo, Mutsumi: *See*—
Miyoshi, Norionu; Tsuruoka, Michihiko; and Nagumo, Mutsumi, 4,648,280, Cl. 73-861.240.
Nagumo, Ryoichi: *See*—
Sakamoto, Masami; Nagumo, Ryoichi; and Ishihara, Tamio, 4,683,480, Cl. 346-134.000.
Nagura, Osamu, to Hitachi, Ltd. Starting method for induction motors. 4,652,807, 3-24-87, Cl. 318-778.000.
Nagura, Shigehiro: *See*—
Takamizawa, Minoru; Yamamoto, Akira; Ishihara, Toshinobu; and Nagura, Shigehiro, 4,649,185, Cl. 526-279.000.
Takamizawa, Minoru; Yamamoto, Akira; and Nagura, Saigehiro, 4,689,267, Cl. 428-376.000.
Nagura, Takahiro: *See*—
Sugiyama, Kenichi; and Nagura, Takahiro, 4,660,530, Cl. 123-432.000.
Nagy, Attila: *See*—
Tompa, Ildiko F.; Nagy, Attila; Tyihak, Erno; Nyiredy, Szabolcs; Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida, Laszlo ; Mincsovics, Emil; Kemeny, Gabor; and Baranyi, Piroska, 4,671,870, Cl. 210-149.000.
Nagy, Ferenc: *See*—
Nagy, Istvan; Nagy, Ferenc; Pozsgai, Istvan; Karatson, Laszlo ; Gabori, Andor; Toth, Kalman; and Zubretzky, Jeno, 4,691,485, Cl. 52-125.100.
Nagy, Francis J. Shelf filing system with identification handle for file pockets. 4,679,823, 7-14-87, Cl. 281-15.00A.
Nagy, Geza: *See*—
Pungor, Erno; Toth, Klara S.; Feher, Zsofia; Nagy, Geza; and Horvai, Gyorgy, 4,673,295, Cl. 356-440.000.
Nagy, Geza T.; Szepesi, Gabor; Gazdag, Maria; Papp nee Sziklay, Zsofia; and Burger, Kalman, to Richter Gedeon Vegyeszeti Gyar Rt. Metal complexes of bis-indole compounds and aqueous pharmaceutical compositions containing them. 4,684,638, 8-4-87, Cl. 514-185.000.
Nagy, Imre Z.; Emri, Zsuzsanna; Jancso, Sandor; Csernus, Istvan; and Balint, Janos, to Biogal Gyogyszergyar. 1-3,bis(dimethylamino)-2-propyl-4-chlorophenoxy-acetate, acid addition salts thereof, a process for the preparation of the same and pharmaceutical compositions comprising the said compounds. 4,661,618, 4-28-87, Cl. 560-62.000.
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Nagy, Jeffrey J.: *See*—
Morris, Bernard L.; Nagy, Jeffrey J.; and Walter, Lawrence A., 4,645,948, Cl. 307-296.008.
Nagy, Joseph G.: *See*—
Ciarcia, Ronald D.; DiVincenzo, Gregory T.; Bernier, Richard E.; and Nagy, Joseph G., 4,679,016, Cl. 335-132.000.
Nagy, Jozsef: *See*—
Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavlicsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.
Pungor, Erno; Toth, Klara; Pal, Ferenc; Eros, Bela; Nagy, Jozsef; and Bihatsi, Laszlo, 4,634,982, Cl. 324-448.000.
Nagy, Lajos: *See*—
Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko ; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.
Nagy, Laszlo, to General Motors Corporation. Multiratio power transmission. 4,679,455, 7-14-87, Cl. 74-359.000.
Nagy, Louis L., to General Motors Corporation. Vehicle roof mounted slot antenna with lossy conductive material for low VSWR. 4,707,700, 11-17-87, Cl. 343-712.000.
Nagy, Mihaly: *See*—
Komives, Tamas; Dutka, Ferenc; Barta, Istvan; Jablonkai, Istvan; Hulesch, Agnes; Bihari, Ferenc; Eifert, Gyula; Bohus, Peter; Nagy, Mihaly; Backai, Gyorgy; and Kurenya, Istvan, 4,708,731, Cl. 71-94.000.
Nagy, Monte L., Jr.; and Cole, Charles J., to Allied Corporation. Method of imparting stain resistance to colored substrates which include a filamentary material. 4,695,497, 9-22-87, Cl. 428-96.000.
Nagy nee Kricsfalussy, Margit; Zavodszky nee Szabo, Anna; Rakoczi, Jozsef; and Halmos, Jozsef to Interkemia Vegyipari Gazdasag Tarsasag. Quail egg based stabilized foam compositions for cosmetic purposes. 4,661,340, 4-28-87, Cl. 424-47.000.
Nagy nee Vajda, Julianna: *See*—
Hosztafi, Sandor; Timar, Tibor; Salamon, Zoltan; Fabian nee Orban, Ilona; and Nagy nee Vajda, Julianna, 4,647,694, Cl. 562-443.000.
Nagy, Richard A.: *See*—
McNeal, Norman E.; Nagy, Richard A.; and Norell, Ronald A., 4,643,935, Cl. 428-157.000.
McNeal, Norman E.; and Nagy, Richard A., 4,680,075, Cl. 156-289.000.
Nagy, Zoltan; Hupka, Gyorgy; Szalay, Otto ; and Kovacs, Attila, to Magyar Asvanyolaj es Foldgaz Kiserleti. Process and equipment for the thermic conversion of the components of gas currents contaminating the environment. 4,681,531, 7-21-87, Cl. 431-181.000.
Nagyistok, Ferenc: *See*—
Czeller, Bela; Kozak, Janos; Kucsera, Gabor; Nadudvari, Jozsef; and Nagyistok, Ferenct 4,647,375, Cl. 210-267.000.
Nahara, Akira: *See*—
Arai, Yoshihiro; and Nahara, Akira, 4,639,815, Cl. 360-131.000.
Arai, Yoshihiro; Nahara, Akira; and Fukino, Kiyotaka, 4,652,481, Cl. 428-216.000.
Nahas, Joseph J.: *See*—
Crouch, Paul E.; Nahas, Joseph J.; and Ng, Howard, 4,674,114, Cl. 379-154.000.
Nahas, Randall E.: *See*—
Stevenson, Ernest W.; and Nahas, Randall E., 4,714,375, Cl. 405-3.000.
Nahas, Robert C.; and Strolle, Clifford H., to Du Pont de Nemours, E. I., and Company. Amine vapor curable coating composition of an acrylic polymer and a polyisocyanate. 4,659,799, 4-21-87, Cl. 528-73.000.
Nahas, Robert C.; and Strolle, Clifford H., to Du Pont de Nemours, E. I., and Company. Process for curing a coating composition of an acrylic polymer and a polyisocyanate with an amine vapor catalyst. 4,713,265, 12-15-87, Cl. 427-341.000.
Nahill, George F.: *See*—
Kudert, Frederick G.; Latreille, Maurice G.; McHenry, Robert J.; Nahill, George F.; Pfutzenreuter, Henry, III; Tennant, William A.; Tung, Thomas T.; and Vella, John, Jr., 4,712,990, Cl. 425-130.000.
Nahill, Thomas E.: *See*—
Krishnakumar, Suppayan M.; and Nahill, Thomas E., 4,710,118, Cl. 425-130.000.
Nahm, Alexander H.: *See*—
Bamberger, Eric N.; Clark, John C., Jr.; and Nahm, Alexander H., 4,659,241, Cl. 384-625.000.
Nahm, Steven H., to Hercules Incorporated. Cycloolefin copolymerization method, feed composition and product. 4,689,380, 8-25-87, Cl. 526-283.000.
Naik, Appaya R.: *See*—
Edge, David J.; Naik, Appaya R.; and Scott, Melvin, 4,680,143, Cl. 252-553.000.
Naik-Satam, Prakash: *See*—
Lukenbach, Elvin R.; Naik-Satam, Prakash; and Schwartz, Anthony M., 4,696,773, Cl. 260-513.00R.
Naik, Subhash K., to Textron/Avco Corp. High temperature oxidation/corrosion resistant coatings. 4,714,624, 12-22-87, Cl. 427-34.000.
Naik, Subhash K.: *See*—
Fiedler, Louis J.; and Naik, Subhash K., 4,677,035, Cl. 428-680.000.
Naiki, Kazuaki, to NEC Corporation. Cup member of an in-line electron gun capable of reducing a coma aberration. 4,659,961, 4-21-87, Cl. 313-413.000.
Nailon, Wayne M. Portable bag storage assembly. 4,708,243, 11-24-87, Cl. 206-315.110.
Naiman, Michael I.; Schield, John A.; and Cunningham, Lawrence J., to Petrolite Corporation. Cold flow improver and method of use thereof. 4,708,993, 11-24-87, Cl. 525-356.000.
Naimer, Hubert L. Reset mechanism for a rotary switch. 4,649,356, 3-10-87, Cl. 335-116.000.
Naimon, Errol J.; and Jackson, Michael, to Applied Membrane Technology, Inc. Electronic respirable gas delivery device. 4,686,975, 8-18-87, Cl. 128-204.230.
Naimpally, Saiprasad V., to North American Philips Consumer Electronics Corp. Piecewise recursive vertical filter for PIP feature. 4,665,439, 5-12-87, Cl. 358-183.000.
Naimpally, Suprasad V., to North American Philips Consumer Electronics Corp. Video noise reduction in picture-in-picture television receiver. 4,682,234, 7-21-87, Cl. 358-183.000.
Naipawer, Richard E., to Givaudan Corporation. (2R*,3S*)-(E)-3-methyl-5-(2,2,3-trimethylcyclopent-3-en-1-yl)pent-4-en-2-ol. 4,696,766, 9-29-87, Cl. 512-8.000.
Nair, Kumaran M., to Du Pont de Nemours, E. I., and Company. Resistor compositions. 4,645,621, 2-24-87, Cl. 252-513.000.
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Nair, Kumaran, M., to Du Pont de Nemours, E. I., and Company. Resistor compositions. 4,657,699, 4-14-87, Cl. 252-513.000.

Nair, Ravindra K., to International Business Machines Corporation. Automated hook layout in static CMOS. 4,700,316, 10-13-87, Cl. 364-488.000.

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Natto, Kaoru: *See*—
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Natto, Masao: *See*—
Yamamoto, Isamu; and Naito, Masao. 4,700,221, Cl. 358-44.000.

Naito, Masataka: *See*—
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Naito, Masato: *See*—
Kuwabara, Hideki; and Naito, Masato. 4,657,937, Cl. 521-56.000.
Kuwabara, Hideki; Naito, Masato; Watanabe, Toshiro; and Hamada, Tadatsugu. 4,711,287, Cl. 164-34.000.

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Yatsuo, Tsutomu; Momma, Naohiro; Naito, Masayoshi; and Okamura, Masahiro. 4,682,199, Cl. 357-38.000.

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Kawasaki, Masami; and Naito, Masayuki. 4,643,540, Cl. 350-502.000.
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Naito, Ryuichi, to Pioneer Electronic Corporation. Method for detecting an error in loading a recording disc. 4,679,181, 7-7-87, Cl. 369-44.000.

Naito, Shotaro: *See*—
Tokuyama, Keiichi; Naito, Shotaro; and Masuda, Mitsuhiro. 4,635,034, Cl. 340-52.00F.
Yamamura, Hirohisa; Naito, Shotaro; and Katogi, Kozo. 4,665,497, Cl. 364-561.000.

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Ueno, Masahiro; and Naito, Takashi. 4,653,039, Cl. 369-75.200.

Naito, Takayuki: *See*—
Aburaki, Shimpei; Narita, Yukio; Okumura, Jun; Naito, Takayuki; and Walker, Donald G.. 4,659,812, Cl. 540-222.000.
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Iimura, Seiji; Abe, Yoshio; Okumura, Jun; Naito, Takayuki; and Kamachi, Hajime. 4,708,955, Cl. 514-202.000.

Naito, Tsutomu: *See*—
Izumi, Takayuki; Naito, Tsutomu; Shinya, Masuo; and Nomura, Tomio. 4,655,902, Cl. 208-22.000.

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Tsuji, Yoshiomi; and Naitoh, Hajime. 4,661,015, Cl. 405-115.000.

Naitoh, Kazumi; Ikezaki, Takashi; and Shimodaira, Saburo, to Showa Denko Kabushiki Kaisha. Solid electrolytic capacitor and process for preparation thereof. 4,648,010, 3-3-87, Cl. 361-433.000.

Naitoh, Mitsugu; and Suehiro, Yoshiyuki, to Fujitsu Limited. Semiconductor device incorporating memory test pattern generating circuit. 4,701,919, 10-20-87, Cl. 371-21.000.

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Naiwirt, Erich, to ITT Austria Gesellschaft m.b.H. Circuitry for telephone systems. 4,670,902, 6-2-87, Cl. 379-338.000.

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Najjar, Mitri S.; and Kessler, Richard V., to Texaco Inc. Partial oxidation process. 4,705,538, 11-10-87, Cl. 48-197.00R.

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Najjar, Mitri S.: *See*—
Becker, Michael W.; Stevenson, John S.; and Najjar, Mitri S., 4,705,536, Cl. 48-197.00R.
Kessler, Richard V.; and Najjar, Mitri S., 4,655,792, Cl. 48-197.00R.
Vasconcellos, Stephen R.; Najjar, Mitri S.; and Pascoe, James R., 4,657,702, Cl. 252-373.000.
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Yaghmaie, Farrokh; Najjar, Mitri S.; and Sorell, Louis S., 4,705,537, Cl. 48-197.00R.

Najm, Elie M.: *See*—
Driscoll, Carleton D.; Najm, Elie M.; and Waechter, Manfred, 4,685,020, Cl. 361-18.000.

Najmr, Stanislav; Jerman, Zdenek; and Kralicek, Jaroslav, to Vysoka Skola chemicko-technologicka. Process for producing pure magnesium sulphite. 4,685,935, 8-11-87, Cl. 23-304.000.

Najvar, Daniel J.; Pope, Brian G.; and Loeffler, Norman R., to Dow Chemical Company, The. Fly ash reactive filler for dehydrating and bonding aqueous polymeric compositions. 4,714,722, 12-22-87, Cl. 523-218.000.

Naka, Hideo: *See*—
Kobashi, Toshiyuki; and Naka, Hideo, 4,659,847, Cl. 556-5.000.

Naka, Hiromitsu; Miyashiro, Takeshi; and Sugimoto, Yoshihide, to Kabushiki Kaisha Naka Gijutsu Kenkyusho. Top rail for use with handrails. 4,646,490, 3-3-87, Cl. 52-184.000.

Naka, Hiroshi; Seko, Ichiro; Kobayashi, Shuji; and Haneda, Makoto, to Hitachi, Ltd. Light emitting chip and optical communication apparatus using the same. 4,701,927, 10-20-87, Cl. 372-46.000.

Naka, Hiroshi: *See*—
Sawai, Masaaki; Kobayashi, Masamichi; Hayashi, Shoji; Naka, Hiroshi; and Ichiki, Masahiro, 4,692,927, Cl. 372-46.000.

Naka, Hiroyuki: *See*—
Imanishi, Kiyokazu; Naka, Hiroyuki; Sakurai, Yasuo; Ichiyanagi, Takashi; and Kishimoto, Masaru, 4,641,214, Cl. 360-130.240.

Naka, Junichi: *See*—
Taneda, Kozo; Chiba, Masae; Naka, Junichi; and Watanabe, Shunichi, 4,653,963, Cl. 406-70.000.

Naka, Masaru: *See*—
Sakai, Mikio; and Naka, Masaru, 4,663,105, Cl. 264-66.000.

Naka, Shigekatsu, to Tokyo Shibaura Denki Kabushiki Kaisha. Multistage hydraulic machine. 4,692,090, 9-8-87, Cl. 415-112.000.

Naka, Shinji: *See*—
Deguchi, Takashi; Kadono, Masahiro; and Naka, Shinji, 4,636,928, Cl. 363-41.000.

Naka, Takahiro, to Seiko Epson Kabushiki Kaisha. Nozzle cover assembly for an ink-on-demand type ink jet printer. 4,684,963, 8-4-87, Cl. 346-140.00R.

Nakabayashi, Akira: *See*—
Fujita, Yoshitada; Hanada, Sadashi; Yamamoto, Yoshiaki; and Nakabayashi, Akira, 4,645,412, Cl. 414-786.000.

Nakabayashi, Kazuyoshi: *See*—
Ouchi, Yasuhide; Aoi, Hajime; Tamura, Takashi; Nakabayashi, Kazuyoshi; and Uchiyama, Takamasa, 4,651,236, Cl. 360-45.000.

Nakabayashi, Masamitsu; Kawai, Hideo; Tatsukawa, Suminori; and Kaji, Masayuki, to Takeda Chemical Industries, Ltd.; and Showa Aluminum Corporation. Closure material for sealing glass containers. 4,686,133, 8-11-87, Cl. 428-209.000.

Nakabayashi, Teiji: *See*—
Fujimoto, Yuji; Aono, Masayuki; Takei, Tsutomu; Nakano, Tetuo; and Nakabayashi, Teiji, 4,688,392, Cl. 62-174.000.

Nakabayashi, Toshiya: *See*—
Tajima, Shigeru; and Nakabayashi, Toshiya, 4,658,223, Cl. 338-254.000.

Nakachian, Raymond J.: *See*—
Smeyers, Pierre A., 4,682,730, Cl. 239-109.000.

Nakada, Akio, to Olympus Optical Co., Ltd. Resectoscope. 4,648,399, 3-10-87, Cl. 128-303.140.

Nakada, Akio: *See*—
Matsuo, Kazumasa; and Nakada, Akio, 4,633,882, Cl. 128-660.000.

Nakada, Akiyoshi: *See*—
Tada, Haruo; and Nakada, Akiyoshi, 4,697,978, Cl. 414-729.000.

Nakada, Fumio: *See*—
Yaotani, Kouichi; Nakada, Fumio; Tanaka, Takao; and Yoshida, Minoru, 4,637,767, Cl. 411-411.000.

Nakada, Kimiaki: *See*—
Ohmura, Hiroshi; Tanaka, Tsutomu; and Nakada, Kimiaki, 4,655,571, Cl. 354-150.000.

Nakada, Kunio: *See*—
Makino, Masashi; Nakada, Kunio; Muragishi, Isao; and Nishitani, Syozi, 4,635,403, Cl. 51-94.00R.
Makino, Masashi; Nakada, Kunio; Muragishi, Isao; and Nishitani, Syozi, 4,651,471, Cl. 51-3.000.
Ueda, Shuji; Nakada, Kunio; Fujino, Kazuhiko; Saeki, Hiroshi; and Fujishiro, Kenji, 4,656,787, Cl. 51-50.00R.

Nakada, Saburo: *See*—
Moriya, Takahiko; and Nakada, Saburo, 4,650,698, Cl. 427-237.000.

Nakada, Seiichi; Hanada, Tool; and Watanabe, Masao, to Matsushita Electric Industrial Co., Ltd. Combination steam iron and steamer. 4,640,028, 2-3-87, Cl. 38-77.700.

Nakada, Takao, to Hitachi Chemical Co., Ltd. Zirconia ceramics and process for producing the same. 4,690,911, 9-1-87, Cl. 501-105.000.

Nakada, Takeshi: *See*—
Kobayashi, Mikiya; Nakada, Takeshi; and Arai, Michio, 4,679,056, Cl. 346-76.0PH.

Nakada, Yasuo, to Sony Corporation. Apparatus for detecting distance to an object. 4,690,549, 9-1-87, Cl. 356-4.000.

Nakada, Yoshiyuki; Asada, Masao; and Inoue, Kiyoshi, to Kabushiki Kaisha Toshiba. Blue pigmented phosphor. 4,699,662, 10-13-87, Cl. 106-287.130.

Nakadai, Katsuo: *See*—
Kaneko, Kiyotaka; Nakadai, Katsuo; Miyake, Izumi; and Oda, Kazuya, 4,677,506, Cl. 360-77.000.
Kawakami, Chikumi; and Nakadai, Katsuo, 4,660,102, Cl. 360-14.100.
Miyake, Izumi; Kaneko, Kiyotaka; Nakadai, Katsuo; and Oda, Kazuya, 4,689,700, Cl. 360-77.000.

Nakadai, Shigeru; and Tamada, Teruo, to Toko, Inc. Miniaturized transformer. 4,642,596, 2-10-87, Cl. 336-98.000.

Nakadaira, Shiro: *See*—
Yoshioka, Masahiro; Izumi, Hideki; Inouye, Hiroshi; Hazaki, Eiichi; and Nakadaira, Shiro, 4,639,146, Cl. 384-99.000.

Nakadate, Takanori; Kiyohara, Kazuto; and Harada, Ichiya, to Konishiroku Photo Industry Co., Ltd. Method of manufacturing a photographic reflecting support. 4,699,744, 10-13-87, Cl. 264-101.000.

Nakae, Hideo: *See*—
Kohno, Akiomi; Nakae, Hideo; Yamamoto, Akihiko; and Kawamoto, Hiroyuki, 4,699,310, Cl. 228-122.000.

Nakae, Kiyohiko: *See*—
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,670,529, Cl. 526-348.100.
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,675,247, Cl. 428-349.000.

Nakagaki, Akitsuna: *See*—
Yogo, Takeji; Nakagaki, Akitsuna; and Miyazawa, Akio, 4,653,581, Cl. 165-166.000.
Yogo, Takeji; Nakagaki, Akitsuna; Miyazawa, Akio; Mitomo, Takeshi; and Ichihara, Takayuki, 4,708,199, Cl. 165-167.000.

Nakagaki, Harushige; Iso, Yoshimi; and Inoue, Shigeki, to Hitachi, Ltd. Disc playback apparatus. 4,682,314, 7-21-87, Cl. 369-44.000.

Nakagaki, Harushige: *See*—
Iso, Yoshimi; Nakagaki, Harushige; and Nakamura, Masafumi, 4,675,855, Cl. 369-32.000.
Yonezawa, Seiji; Ohtake, Masatoshi; Ito, Masaru; Tsuyoshi, Toshiaki; Ichino, Kazuo; and Nakagaki, Harushige, 4,707,816, Cl. 369-44.000.

Nakagaki, Nobufumi: *See*—
Murata, Toshinori; Nakagaki, Nobufumi; and Matono, Takaaki, 4,677,485, Cl. 358-160.000.

Nakagaki, Nobuhumi; Murata, Toshinori; and Kurita, Toshiyuki, to Hitachi, Ltd. Signal converting method and circuit for television receiver. 4,684,985, 8-4-87, Cl. 358-140.000.

Nakagaki, Shintaro; and Nishiyama, Hiroshi, to Victor Company of Japan, Ltd. Apparatus and method for producing a still image video signal using solid-state imaging device. 4,647,976, 3-3-87, Cl. 358-213.000.

Nakagaki, Shintaro; and Ichimura, Hiroshi, to Victor Company of Japan, Ltd. Automatic beam current control with an envelope detector for a color television camera tube with a stripe filter. 4,652,910, 3-24-87, Cl. 358-44.000.

Nakagaki, Shintaro: *See*—
Takanashi, Itsuo; Miyoshi, Tadayoshi; Nakagaki, Shintaro; and Nishiyama, Hiroshi, 4,642,677, Cl. 358-43.000.
Takanashi, Itsuo; Nakagaki, Shintaro; Ichimura, Hiroshi; and Kuriyama, Takashi, 4,691,227, Cl. 358-47.000.

Nakagaki, Tomonari; Sekimoto, Yoshiharu; Ishii, Mamoru; and Ishibashi, Haruo, to Asanuma Sogyo Kabushiki Kaisha. Method and apparatus for solidifying a powdered cosmetic composition in an elongated hollow container. 4,670,206, 6-2-87, Cl. 264-87.000.

Nakagami, Jozi: *See*—
Migita, Yoshihiro; Eguchi, Tadashi; Kumazawa, Yukinari; Nakagami, Jozi; Amano, Takehiro; Sota, Kaoru; and Sakakibara, Jinsaku, 4,686,292, Cl. 544-343.000.
Watanabe, Yoshiaki; Morimoto, Shigeo; Goi, Masami; Mitsukuchi, Morihiro; Adachi, Takashi; Nakagami, Jozi; Asaka, Toshifumi; Eguchi, Tadashi; and Sota, Kaoru, 4,672,109, Cl. 536-7.200.

Nakagawa, Akio; Ohashi, Hiromichi; Yamaguchi, Yoshihiro; Watanabe, Kiminori; and Thukakoshi, Thuneo, to Kabushiki Kaisha Toshiba. Conductivity modulated MOSFET. 4,672,407, 6-9-87, Cl. 357-23.400.

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Nakagawa, Akio; Ohashi, Hiromichi; Ogura, Tsuneo; and Shimbo, Masaru, to Kabushiki Kaisha Toshiba. Method of manufacturing semiconductor device wherein silicon substrates are bonded together. 4,700,466, 10-20-87, Cl. 437-247.000.

Nakagawa, Akira, to Kabushiki Kaisha Toshiba. Optical disk apparatus. 4,701,897, 10-20-87, Cl. 369-32.000.

Nakagawa, Akira: *See*—
Iwase, Takatoshi; and Nakagawa, Akira, 4,637,132, Cl. 29-726.000.
Matsuda, Tatsuya; and Nakagawa, Akira, 4,705,304, Cl. 285-243.000.

Nakagawa Corporation: *See*—
Nakagawa, Shigesaburo, 4,679,392, Cl. 59-35.100.

Nakagawa, Eiji: *See*—
Hatakeyama, Hiroshi; Ogawa, Masayuki; Matsumura, Kozo; and Nakagawa, Eiji, 4,663,192, Cl. 427-108.000.

Nakagawa, Francis Y. Auxiliary visor for a motor vehicle. 4,666,205, 5-19-87, Cl. 296-97.00K.

Nakagawa, Fumio; Nakamura, Kazuyoshi; Shibao, Hitoshi; Yoshimura, Hiroshi; Taki, Koichi; Inoue, Makoto; Hayashi, Eiji; Dejima, Fusao; and Kohara, Yuritoshi, to Yamaguchikyoei Industry Co. Ltd. Water cooled scrap preheating bucket. 4,690,638, 9-1-87, Cl. 432-81.000.

Nakagawa, Fumio: *See*—
Kaneko, Masakatsu; Kimura, Misako; Murofushi, Yoshinobu; Yamazaki, Mitsuo; Iwata, Nobuyoshi; and Nakagawa, Fumio, 4,634,706, Cl. 514-262.000.
Misu, Takahiro; and Nakagawa, Fumio, 4,665,693, Cl. 60-330.000.

Nakagawa, Hideaki: *See*—
Fuji, Masaki; Gotoh, Shiroh; Nakagawa, Hideaki; and Ito, Ryoichi, 4,680,318, Cl. 521-95.000.
Ohkoshi, Akio; Tsuruta, Koji; Nakagawa, Hideaki; and Shimada, Satoshi, 4,710,765, Cl. 340-781.000.

Nakagawa, Hiroshi; Iwamoto, Hiroshi; Kanada, Hirosni; Kato, Kazumichi; and Kurita, Yutaka, to Shinko Electric Co., Ltd. Linear pulse motor. 4,668,883, 5-26-87, Cl. 310-12.000.

Nakagawa, Hiroshi, to Shinko Electric Co., Ltd. Magnetic pole pieces for using in linear pulse motor. 4,709,174, 11-24-87, Cl. 310-12.000.

Nakagawa, Hiroshi, to Shinko Electric Co., Ltd. Linear pulse motor. 4,709,175, 11-24-87, Cl. 310-12.000.

Nakagawa, Hiro[illegible]: *See*—
Maruyama, Toshiki; Nakagawa, Hiroshi; and Maeda, Minoru, 4,661,730, Cl. 310-12.000.

Nakagawa, Hiroto: *See*—
Haraguchi, Eiji; Nakagawa, Hiroto; Bando, Akira; Kuwahara, Takao; Nohara, Haruo; and Ono, Kenichi, 4,694,189, Cl. 290-40.00C.

Nakagawa, Hisao; and Matsumoto, Masao, to Matsushita Electric Works, Ltd. Electric shaver powered by rechargeable batteries. 4,675,997, 6-30-87, Cl. 30-53.000.

Nakagawa, Hisao: *See*—
Umeya, Kazumasa; Shiva, Ryoichi; Senzaki, Hisao; Nasagawa, Hisao; Koyama, Shoji; and Kataoka, Hideshi, 4,654,510, Cl. 219-541.000.

Nakagawa, Hisato; Kuwahara, Hideo; Koyama, Atsuo; and Akatsuka, Mitsuo, to Hitachi Lighting, Ltd. Lighting apparatus for an electric discharge lamp. 4,694,224, 9-15-87, Cl. 315-177.000.

Nakagawa, Hitoshi; and Kitahara, Kohei, to Seiko Epson Kabushiki Kaisha. Paper feeding apparatus for printers. 4,691,911, 9-8-87, Cl. 271-9.000.

Nakagawa, Isao; Yamamoto, Akihiro; Hirose, Koichi; Okada, Yoshinori; and Kudo, Mitsuru, to Hitachi, Ltd. Electronic circuitry utilizing an inerted Darlington amplifier output stage to be operable with a low supply voltage. 4,634,995, 1-6-87, Cl. 330-261.000.

Nakagawa, Isao: *See*—
Matono, Takaaki; Murata, Toshinori; Kurita, Toshiyuki; and Nakagawa, Isao, 4,707,732, Cl. 358-31.000.

Nakagawa, Kaoru; Ogura, Mitsugi; Natori, Kenji; and Masuoka, Fumio, to Kabushiki Kaisha Toshiba. Semiconductor memory device having error detection/correction function. 4,706,249, 11-10-87, Cl. 371-38.000.

Nakagawa, Katsumi; Komatsu, Toshiyuki; Hirai, Yutaka; Misumi, Teruo; and Fukuda, Tadaji, to Canon Kabushiki Kaisha. Image-forming member for electrophotography. 4,670,369, 6-2-87, Cl. 430-128.000.

Nakagawa, Katsumi: *See*—
Komatsu, Toshiyuki; Nakagawa, Katsumi; Fukaya, Masaki; and Shoji, Tatsumi, 4,658,280, Cl. 357-30.000.
Komatsu, Toshiyuki; Hirai, Yutaka; Nakagawa, Katsumi; and Fukuda, Tadaji, 4,664,998, Cl. 430-64.000.
Sekimura, Nobuyuki; Fukaya, Masaki; Nakagawa, Katsumi; Konatsu, Toshiyuki; Shoji, Tatsumi; and Furusaima, Teruhiko, 4,667,214, Cl. 357-30.000.
Shirato, Yoshiaki; Komatsu, Toshiyuki; Seito, Shinichi; Kawai, Tatsundo; Iwamoto, Hirofumi; Nakagawa, Katsumi; and Kuroda, Yasuo, 4,680,644, Cl. 358-294.000.

Nakagawa, Katsutoshi. Fastening tool of the fishing line sinkers. 4,651,462, 3-24-87, Cl. 43-54.100.

Nakagawa, Kazuhiko; Amano, Itaru; and Fujieda, Yasuhiko, to Kabushiki Kaisha Kobe Seiko Sho. Vulcanizing method for a tire press. 4,670,209, 6-2-87, Cl. 264-315.000.

Nakagawa, Kazuyuki: *See*—
Ninomiya, Hisakazu; Tomita, Hiroyuki; Mochizuki, Jyun; and Nakagawa, Kazuyuki, 4,656,401, Cl. 318-329.000.
Tone, Hitoshi; Miyamoto, Hisashi; Ueda, Hiraki; and Nakagawa, Kazuyuki, 4,684,648, Cl. 514-249.000.
Uchida, Minoru; Nishi, Takao; and Nakagawa, Kazuyuki, 4,663,323, Cl. 514-227.000.
Uchida, Minoru; Komatsu, Makoto; and Nakagawa, Kazuyuki, 4,694,017, Cl. 514-418.000.

Nakagawa, Keiji: *See*—
Kubota, Hitoshi; and Nakagawa, Keiji, 4,658,942, Cl. 192-13.00A.

Nakagawa, Kenichi: *See*—
Ishii, Yutaka; Nakagawa, Kenichi; and Funada, Fumiaki, 4,708,439, Cl. 350-331.00R.

Nakagawa, Kenji: *See*—
Kasuga, Toshuhiro; and Nakagawa, Kenji, 4,643,982, Cl. 501-8.000.
Sugishima, Kenji; and Nakagawa, Kenji, 4,678,919, Cl. 250-491.100.

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Nakagawa, Kiyohara: *See*—
Sato, Hiroki; Sanada, Yukitomo; Yokoya, Yuji; Masaki, Kazuo; Nakagawa, Kiyohara; and Murata, Syouji, 4,681,143, Cl. 137-625.370.

Nakagawa, Kiyoshi: *See*—
Ametmya, Kunio; Tanaka, Mikihiko; Kamemaru, Kenichi; and Nakagawa, Kiyoshi, 4,636,424, Cl. 428-198.000.

Nakagawa, Koji: *See*—
Azuma, Shizuo; Hiramatsu, Toshiyuki; Nakagawa, Koji; and Ichikawa, Yataro, 4,685,952, Cl. 71-86.000.

Nakagawa, Kunihiro: *See*—
Sakurai, Masao; Hamada, Yousuke; Ninomiya, Morimasu; Takechi, Toshihide; Nakagawa, Kunihiro; and Fujii, Takashi, 4,633,735, Cl. 74-675.000.

Nakagawa, Makoto: *See*—
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Nakagawa, Masahiro: *See*—
Chiyoma, Hitoshi; Watanaise, Zensaku; and Nakagawa, Masahiro, 4,679,088, Cl. 358-213.180.

Nakagawa, Masaki; and Suzuki, Susumu, to Kabushiki Kaisha Toshiba. Digital television signal processing circuit. 4,644,389, 2-17-87, Cl. 358-28.000.

Nakagawa, Masao, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Polyolefin particles and process for preparing the same. 4,665,102, 5-12-87, Cl. 521-50.500.

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Nakagawa, Masashi: *See*—
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Nakagawa, Masatsugu; and Iwano, Tatsuya, to NEC Corporation. Data switching system. 4,701,755, 10-20-87, Cl. 340-825.020.

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Nakagawa, Mitsuhiko; and Nitto, Fumiaki, to Sumitomo Electric Industries, Ltd. Friction material using iron powder. 4,665,108, 5-12-87, Cl. 523-152.000.

Nakagawa, Mitsuhiko; and Nitto, Fumiaki, to Sumitomo Electric Industries, Ltd. Friction material using steel fibers. 4,672,082, 6-9-87, Cl. 523-153.000.

Nakagawa, Mitsuhiko; and Nitto, Fumiaki, to Sumitomo Electric Industries, Ltd. Friction material and method of making such material. 4,678,818, 7-7-87, Cl. 523-157.000.

Nakagawa, Norihisa: *See*—
Oishi, Kiyohiko; Nakanishi, Kiyoshi; Kayanuma, Nobuaki; Kawai, Taiyo; Nakagawa, Norihisa; and Nomura, Hiroshi, 4,667,636, Cl. 123-432.000.

Nakagawa, Osamu, to Murata Kikai Kabushiki Kaisha. Article selecting system. 4,694,949, 9-22-87, Cl. 198-351.000.

Nakagawa, Reiji: *See*—
Ohkuma, Kuniaki; Nakagawa, Reiji; Miyao, Hisao; Yoshimura, Shinichi; Suzuki, Toshio; Hayashi, Toyoaki; Arakawa, Masayasu; and Kouzumi, Hideharu, 4,714,397, Cl. 414-222.000.

Nakagawa Seisakusho Co., Ltd.: *See*—
Kuroskawa, Atsushi, 4,665,717, Cl. 66-122.000.

Nakagawa Seisakusho Mfg. Co., Ltd.: *See*—
Wada, Iwao, 4,653,152, Cl. 19-114.000.

Nakagawa, Shigeru; and Uchikawa, Kiyotaka, to Marui Industry Co., Ltd. Method for forming a metal layer with pattern on a substrate. 4,643,912, 2-17-87, Cl. 427-57.000.

Nakagawa, Shigeru, to Maruu Industry Co., Ltd. Display for displaying images in three dimensions. 4,663,869, 5-12-87, Cl. 40-219.000.

Nakagawa, Shigesaburo, to Nakagawa Corporation. Process for producing a garland chain. 4,679,392, 7-14-87, Cl. 59-35.100.

Nakagawa, Shinichi; Nakagawa, Tsuneo; Amano, Toshihiko; Omori, Mitsuge; Yamaguchi, Sadaatsu; and Asano, Kozo, to Daikin Kogyo Co., Ltd. Fluorine-containing copolymer. 4,703,095, 10-27-87, Cl. 526-247.000.

Nakagawa, Shinya: *See*—
Komoriya, Susumu; Nishizuka, Hiroshi; Nakagawa, Shinya; and Maejima, Hisashi, 4,699,505, Cl. 355-30.000.

Nakagawa, Shuichi: *See*—
Kimura, Toshio; Nakagawa, Shuichi; Tokumo, Terubiko; Yamamoto, Hiroyuki; Kotan, Hiroshi; Otsu, Hiroshi; and Satoh, Tetsuya, 4,649,399, Cl. 346-32.000.

Nakagawa, Susumu. Sugar concentration gauge. 4,650,323, 3-17-87, Cl. 356-135.000.

Nakagawa, Susumu; Ushijima, Ryosuke; Nakano, Fumio; Yamada, Koji; and Mano, Eiichi, to Banyu Pharmaceutical Co., Ltd. Cephalosporin derivatives. 4,677,100, 6-30-87, Cl. 514-202.000.

Nakagawa, Tadahiro: *See*—
Nitta, Koichi; Kabuta, Kazuma; Yamaguchi, Masami; Nakagawa, Tadahiro; and Moriyasu, Katsuyuki, 4,664,943, Cl. 427-58.000.

Nakagawa, Taiichi: *See*—
Morishita, Akira; Akae, Yoshifumi; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Kounou, Tadami; Arima, Takemi; and Hasegawa, Akinori, 4,680,979, Cl. 74-7.00E.
Morishita, Akira; Okamoto, Kyoichi; Nakagawa, Taiichi; Morikane, Hiroyuki; Hasegawa, Akinori; Arima, Takemi; and Kounou, Tadami, 4,712,451, Cl. 74-801.000.

Nakagawa, Taizo; Tanaka, Eiichi; Koike, Kengo; Yoshida, Hiromi; and Yoshida, Hiroshi, to Nippon Kayaku Kabushiki Kaisha. Bactericidal N-(2,2,2 trichloroethyl)pyridinecarboxamides. 4,659,722, 4-21-87, Cl. 514-332.000.

Nakagawa, Taizo: *See*—
Yoshida, Hiroshi; Konishi, Kenji; Koike, Kengo; Nakagawa, Taizo; Shimano, Shizuo; and Mochizuki, Seiji, 4,690,934, Cl. 514-354.000.

Nakagawa, Takao: *See*—
Arai, Tomio; Nakagawa, Takao; Mogi, Fumio; and Oshiguri, Noriaki, 4,663,021, Cl. 208-67.000.
Gomi, Shimpei; Ueda, Takuya; Nakagawa, Takao; and Tachibana, Masaharu, 4,663,022, Cl. 208-67.000.

Nakagawa, Takashi: *See*—
Mizukami, Hidetada; Urata, Tsutomu; Nakagawa, Takashi; Hashimoto, Kunihiro; and Mizoguchi, Toshiaki, 4,705,279, Cl. 279-1.00L.

Nakagawa, Takeo; and Suzuki, Kiyoshi, to Research Development Corp.; and Aisin Seiki Kabushiki Kaisha. Production of short metal fibers. 4,640,156, 2-3-87, Cl. 82-1.00C.

Nakagawa, Takeo; and Suzuki, Kiyoshi, to Research Development Corporation of Japan. Method for producing ultra fine and short metal fibers. 4,703,898, 11-3-87, Cl. 241-30.000.

Nakagawa, Tatsuhiko: *See*—
Kuritani, Kazushige; and Nakagawa, Tatsuhiko, 4,712,209, Cl. 370-13.000.

Nakagawa, Tatsushi; Narui, Mamoru; and Sakanaka, Yasuhiro, to Toyo Soda Manufacturing Co., Ltd. Method for producing chlorosulfonated polyethylene with controlling addition amount of sulfur of the chlorosulfonated polyethylene. 4,663,396, 5-5-87, Cl. 525-344.000.

Nakagawa, Teruo: *See*—
Okita, Tsutomu; Naruo, Kyoichi; Tsuji, Nobuo; Nakagawa, Teruo; Murase, Kiyoshi; and Ogasawara, Takahisa, 4,657,817, Cl. 428-425.900.

Nakagawa, Teruyuki: *See*—
Nagao, Shozo; Mitani, Naoyuki; and Nakagawa, Teruyuki, 4,676,905, Cl. 210-646.000.

Nakagawa, Tohru; Sakurai, Yasuo; and Makizawa, Yoshiaki, to Matsushita Electric Industrial Co., Ltd. Industrial robot employing direct drive operation. 4,648,785, 3-10-87, Cl. 414-744.00A.

Nakagawa, Tomozo: *See*—
Mitadera, Takashi; Shirai, Tetsuaki; Nakagawa, Tomozo; Nii, Naotake; and Watanabe, Kozo, 4,688,529, Cl. 123-196.00R.

Nakagawa, Toshimi: *See*—
Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamotu; Ouchi, Takahiro; Abe, Kazuki; and Kobayashi, Sadao, 4,683,258, Cl. 524-434.000.

Nakagawa, Toyoaki, to Nissan Motor Co., Ltd. Air/fuel ratio feedback control system adapted to temporary open-loop control under transient conditions. 4,706,633, 11-17-87, Cl. 123-491.000.

Nakagawa, Toyoaki; and Kai, Shisei, to Nissan Motor Co., Ltd. Air/fuel ratio control system including means to well time start of feedback. 4,707,241, 11-17-87, Cl. 204-406.000.

Nakagawa, Toyoaki: *See*—
Takase, Sadao; Kawamura, Yoshihisa; and Nakagawa, Toyoaki, 4,669,440, Cl. 123-494.000.
Terasaka, Katsunori; Sunbuichi, Hiroshi; and Nakagawa, Toyoaki, 4,712,529, Cl. 123-492.000.

Nakagawa, Tsuneo: *See*—
Ihara, Kiyohiko; and Nakagawa, Tsuneo, 4,677,175, Cl. 526-254.000.
Nakagawa, Shinichi; Nakagawa, Tsuneo; Amano, Toshihiko; Omori, Mitsugu; Yamaguchi, Sadaatsu; and Asano, Kozo, 4,703,095, Cl. 526-247.000.

Nakagawa, Tsutomu, to Mitsubishi Denki Kabushiki Kaisha. Method of making thyristor with a high tolerable bias voltage. 4,639,276, 1-27-87, Cl. 148-1.500.

Nakagawa, Tsuyoshi: *See*—
Watanabe, Noboru; Kubo, Yoichiro; Nakagawa, Tsuyoshi; and Shimoda, Hideyoshi, 4,654,404, Cl. 525-315.000.

Nakagawa, Yasuhiko: *See*—
Ohya, Kanji; Wakita, Naomasa; and Nakagawa, Yasuhiko, 4,651,046, Cl. 310-328.000.

Nakagawa, Yasuhiro: *See*—
Kuwamoto, Hiroshi; Iwadoo, Shuichi; Okami, Yuji; Nagamori, Hiroyuki; and Nakagawa, Yasuhiro, 4,693,839, Cl. 252-51.50A.
Sakamoto, Setsu; Nakagawa, Yasuhiro; Yamauchi, Isamu; Zaizen, Takashi; Suzuki, Katsumi; Shimamoto, Susumu; and Nakajima, Hideo, 4,675,156, Cl. 420-34.000.

Nakagawa, Yasuo: *See*—
Hiroi, Takashi; Ninomiya, Takanori; and Nakagawa, Yasuo, 4,641,527, Cl. 73-582.000.
Ninomiya, Takanori; Nakagawa, Yasuo; and Saito, Keiya, 4,654,583, Cl. 324-73.0PC.

Nakagawa, Yoshimasa: *See*—
Banno, Shigeki; Oshibe, Yoshihiro; and Nakagawa, Yoshimasa, 4,708,982, Cl. 525-92.000.

Nakagawa, Yuichi: *See*—
Miyauchi, Yukio; Nakagawa, Yuichi; Kurihara, Makoto; and Hayashi, Norifumi, 4,702,939, Cl. 427-195.000.

Nakagawa, Yukio; Oto, Katsufumi; and Kurihara, Masaru, to Toray Industries, Inc. Membrane treatment method for semipermeable membranes. 4,634,531, 1-6-87, Cl. 210-639.000.

Nakagawa, Yukio; and Motoori, Ryuzo, to Nippon Kogaku K. K. Image processing apparatus in film image phototelegraphy. 4,649,436, 3-10-87, Cl. 358-280.000.

Nakagawa, Yukio, to Ishida Scales Mfg. Co., Ltd. Weighing apparatus. 4,669,557, 6-2-87, Cl. 177-25.000.

Nakagawa, Yukio; Kakita, Yukio; and Kitagawa, Kazumi, to Ishida Scales Mfg. Co., Ltd. Weighing system. 4,683,966, 8-4-87, Cl. 177-25.000.

Nakagawa, Yukio: *See*—
Isogai, Masaki; and Nakagawa, Yukio, 4,689,691, Cl. 358-280.000.
Matsumoto, Tokikazu; Nakagawa, Yukio; and Uchiyama, Shinichi, 4,673,970, Cl. 358-27.000.
Naito, Kazufumi; Haze, Setsuo; Nobutugu, Hideo; Nakagawa, Yukio; Yamada, Seiji; and Murata, Shuji, 4,694,920, Cl. 177-25.000.

Nakagawa, Yusuke: *See*—
Amatsu, Masashi; Yanase, Takeyasu; Inoue, Hiroshi; and Nakagawa, Yusuke, 4,698,786, Cl. 365-39.000.

Nakagawadenkasangyo Kabushikikaisha: *See*—
Nagasaki, Takeshi; and Sawada, Koichi, 4,677,260, Cl. 200-6.0BB.

Nakagawara, Chikashi: *See*—
Itakura, Tetsuro; Kasagi, Yoshitaka; Koyama, Mikio; and Nakagawara, Chikashi, 4,709,408, Cl. 455-260.000.

Nakagima, Masashi; Kojima, Hiroshi; Matsui, Tatsuro; and Dokoshi, Noriaki, to Toray Thiokol Company Limited. One-pack curing type composition. 4,698,407, 10-6-87, Cl. 528-14.000.

Nakagiri, Takashi: *See*—
Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Nishimura, Yukuo; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,147, Cl. 427-54.100.
Eguchi, Ken; Nishimura, Yukuo; Haruta, Masahiro; Matsuda, Hiroshi; Hirai, Yutaka; and Nakagiri, Takashi, 4,705,403, Cl. 356-319.000.
Hirai, Yutaka; Matsuda, Hiroshi; Eguchi, Ken; Haruta, Masahiro; Nishimura, Yukuo; and Nakagiri, Takashi, 4,683,146, Cl. 427-54.100.
Hirai, Yutaka; Haruta, Masahiro; Nishimura, Yukuo; Matsuda, Hiroshi; and Nakagiri, Takashi, 4,695,717, Cl. 250-213.00R.
Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo; Eguchi, Ken; and Nakagiri, Takashi, 4,693,915, Cl. 427-256.000.
Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,144, Cl. 427-35.000.
Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,145, Cl. 427-36.000.
Nishimura, Yukuo; Miyawaki, Mamoru; Nose, Noriyuki; and Nakagiri, Takashi, 4,691,982, Cl. 350-96.120.
Saito, Kenji; Eguchi, Ken; Kawada, Haruki; Tomida, Yoshinori; Nishimura, Yukuo; and Nakagiri, Takashi, 4,682,897, Cl. 374-45.000.

Nakagome, Hideki: *See*—
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Nakagome, Yoshinobu; Aoki, Masakazu; Horiguchi, Masashi; Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, to Hitachi, Ltd. Semiconductor memory using multiple level storage structure. 4,709,350, 11-24-87, Cl. 365-45.000.

Nakagome, Yoshinobu: *See*—
Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masashi; Ozaki, Toshifumi; Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, 4,636,985, Cl. 365-189.000.
Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masashi; Ikenaga, Shinichi; and Shimohigashi, Katsuhiro, 4,661,929, Cl. 365-189.000.
Aoki, Masakazu; Horiguchi, Masashi; Nakagome, Yoshinobu; Ikenaga, Shinichi; Shimohigashi, Katsuhiro; Masuhara, Toshiaki; Itoh, Kiyoo; Nakamura, Hideo; and Minato, Osamu, 4,701,884, Cl. 365-189.000.

Nakagomi, Tamihito: *See*—
Hasegawa, Shinji; Kando, Yasuhiko; and Nakagomi, Tamihito, 4,693,562, Cl. 350-337.000.
Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, 4,652,088, Cl. 350-334.000.
Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, 4,653,861, Cl. 350-337.000.
Kando, Yasuhiko; Nakagomi, Tamihito; Hasegawa, Shinji; and Hanada, Yoshio, 4,653,865, Cl. 350-346.000.
Kando, Yasuhiko; Nakagomi, Tamihito; and Hasegawa, Shinji, 4,664,482, Cl. 350-346.000.

Nakaguchi, Mitsuharu: *See*—
Ichikawa, Hideo; Nakaguchi, Mitsuharu; and Yumoto, Hidekazu, 4,669,854, Cl. 355-3.00R.

Nakaguchi, Osamu: *See*—
Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.

Nakaguti, Osamu; Shimazaki, Noriluko; Kawai, Yoshio; Hashimoto, Masashi; and Nakatuka, Michie, to Fujisawa Pharmaceutical Co., Ltd. Semicarbazide derivatives, processes for preparation thereof and pharmaceutical composition comprising the same. 4,694,004, 9-15-87, Cl. 514-228.000.

Nakahama, Hidenari: *See*—
Miyata, Seizo; Nakahama, Hidenari; and Kasuga, Takeshi, 4,696,838, Cl. 427-407.200.

Nakahama, Ryoji, to Sanshin Kogyo Kabushiki Kaisha. Tilt device for boat propulsion machine. 4,682,961, 7-28-87, Cl. 440-61.000.

Nakahama, Ryoji: *See*—
Iwai, Tomio; and Nakahama, Ryoji, 4,673,358, Cl. 440-61.000.

Nakahara, Akihiko; Takata, Kuniaki; and Iseki, Yuji, to Tokuyama Soda Kabushiki Kaisha. Process for preparation of fluorine containing polymer films. 4,680,355, 7-14-87, Cl. 526-243.000.

Nakahara, Akihiro; and Matsuki, Taketo, to Sumitomo Rubber Industries, Ltd. Three-piece solid golf ball. 4,714,253, 12-22-87, Cl. 273-228.000.

Nakahara, Hideki: *See*—
Aizawa, Koichi; Sewa, Shingo; and Nakahara, Hideki, 4,639,489, Cl. 524-588.000.

Nakahara, Katuzi: *See*—
Matsuura, Kazuo; Nakahara, Katuzi; and Hayashi, Kenji, 4,702,980, Cl. 430-63.000.

Nakahara, Masanobu: *See*—
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Nakahara, Tsuguji: *See*—
Shimizu, Kimihiro; Nakahara, Tsuguji; Kinoshita, Taketoshi; Takatsuka, Jun; and Igarashi, Michiko, 4,640,835, Cl. 424-94.000.

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Nakai, Katsuyuki: *See*—
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Nakai, Kazuhiro: *See*—
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Nakai, Ken: *See*—
Arakawa, Kazumi; Hirao, Toshiyuki; Sugiura, Kenji; Kuroki, Satoshi; Hiraki, Sei; Suzuki, Takao; and Nakai, Ken, 4,640,336, Cl. 164-440.000.

Nakai, Kimimoto; and Umezaki, Isao, to Shibuya Kogyo Co., Ltd. Apparatus for treating athlete's foot. 4,697,590, 10-6-87, Cl. 128-396.000.

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Nakai, Masaaki: *See*—
Fujino, Akihiko; Inoue, Manabu; Nakai, Masaaki; and Sekida, Minoru, 4,690,530, Cl. 354-21.000.
Inoue, Manabu; Fujino, Akihiko; and Nakai, Masaaki, 4,653,893, Cl. 354-443.000.
Inoue, Manabu; Fujino, Akihiko; Hirano, Masayasu; Nakai, Masaaki; and Yoshida, Fumio, 4,707,104, Cl. 354-412.000.
Koike, Norio; Nakai, Masaaki; Ando, Haruhisa; Ozaki, Toshifumi; Ohba, Shinya; Ono, Hideyuki; and Akiyama, Toshiyuki, 4,689,687, Cl. 358-213.240.
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Taniguchi, Nobuyuki; Omaki, Takanobu; Ishikawa, Norio; Nakai, Masaaki; Ishida, Tokuji; and Hamada, Masataka, 4,702,584, Cl. 354-400.000.
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Yamaki, Toshio; Mukai, Hiromu; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,693,581, Cl. 354-400.000.

Nakai, Masanori: *See*—
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Nakai, Masayoshi: *See*—
Igusa, Masaru; and Nakai, Masayoshi, 4,683,666, Cl. 34-67.000.

Nakai, Masayuki; Ishikawa, Kikuo; and Okada, Shiro, to Sanden Corporation. Coffee roaster. 4,691,447, 9-8-87, Cl. 34-4.000.

Nakai, Masayuki: *See*—
Kubota, Katsuzo; Nakai, Masayuki; and Ono, Shigeyoshi, 4,645,513, Cl. 44-10.00H.

Nakai, Rhyuichi, to Shibuya Kogyo Co., Ltd. Laser beam machining robot. 4,675,499, 6-23-87, Cl. 219-121.0LU.

Nakai, Ryusuke; Takebe, Toshihiko; and Yamazaki, Hajime, to Sumitomo Electric Industries, Ltd.; and Nippon Telegraph & Telephone Public Corporation. Method for the pretreatment of a substrate for ion implantation. 4,636,280, 1-13-87, Cl. 156-603.000.

Nakai, Ryusuke: *See*—
Tatsumi, Masami; Sawada, Shin-ichi; and Nakai, Ryusuke, 4,634,490, Cl. 156-601.000.

Nakai, Satoru: *See*—
Yamamura, Yuichi; Kishimoto, Tadamitsu; Nakai, Satoru; and Hirai, Yoshikatsu, 4,675,291, Cl. 435-68.000.

Nakai, Seigo: *See*—
Noguchi, Takayo; Togawa, Yoichi; Nishimoto, Tsuneo; Tonohara, Yoshiharu; Rokkaku, Tadashi; Nakai, Seigo; Araki, Michio; and Kitano, Kahei, 4,695,209, Cl. 409-42.000.

Nakai, Shinichi, to Ryobi Ltd. Battery charging circuit. 4,636,704, 1-13-87, Cl. 320-35.000.

Nakai, Syunzi: *See*—
Ishii, Hiroshi; Nakai, Syunzi; and Mizumoto, Yukihiro, 4,695,847, Cl. 346-1.100.

Nakai, Taiichiro: *See*—
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Nakai, Tetsuo; and Yazu, Shuji, to Sumitomo Electric Industries, Ltd. Diamond sintered body for tools and method of manufacturing same. 4,636,253, 1-13-87, Cl. 75-239.000.

Nakai, Tetsuo; and Goto, Mitsuhiro, to Sumitomo Electric Industries, Ltd. Cubic boron nitride sintered compact for end mill. 4,693,746, 9-15-87, Cl. 75-238.000.
Nakai, Tetsuya: *See*—
Mimura, Yoshinori; Tokiwa, Hideharu; Shinbori, Osamu; and Nakai, Tetsuya, 4,674,835, Cl. 350-96.340.
Nakai, Toshihiko, to Citizen Watch Co., Ltd. Control system for a cooling fan in an impact printer. 4,639,650, 1-27-87, Cl. 318-333.000.
Nakai, Toshihiko; and Kaneko, Masahiko, to Citizen Watch Co., Ltd. Method for inhibiting printing during ribbon reversal. 4,640,635, 2-3-87, Cl. 400-664.000.
Nakai, Toshio; and Saito, Tamio, to Kabushiki Kaisha Toshiba. Color image sensor. 4,663,535, 5-5-87, Cl. 250-578.000.
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Saito, Tamio; and Nakai, Toshio, 4,654,536, Cl. 250-578.000.
Nakai, Yoshiyuki: *See*—
Nukushina, Etsuzi; Tagawa, Takao; and Nakai, Yoshiyuki, 4,669,861, Cl. 355-14.0TR.
Nakaide, Masami: *See*—
Kato, Matsuo; Ohtsuki, Tomonari; Hashimoto, Kazuya; and Nakaide, Masami, 4,706,381, Cl. 29-857.000.
Nakaie, Toshiyuki; and Yoshino, Akira, to Hanwa Electronic Co., Ltd. Apparatus for testing integrated circuit. 4,677,375, 6-30-87, Cl. 324-158.00F.
Nakaie, Yutaka: *See*—
Tamura, Hiroshi; and Nakaie, Yutaka, 4,694,282, Cl. 340-539.000.
Nakaishi, Takafumi: *See*—
Hojo, Takeshi; and Nakaishi, Takafumi, 4,708,024, Cl. 74-5.470.
Nakaizumi, Kazuo, to NEC Corporation. Dynamic random access memory device provided with test circuit for internal refresh circuit. 4,672,583, 6-9-87, Cl. 365-222.000.
Nakaizumi, Kazuo: *See*—
Inagaki, Yasaburo; and Nakaizumi, Kazuo, 4,688,196, Cl. 365-222.000.
Nakaizumi, Yasushi: *See*—
Ohtaka, Tadashi; Nakaizumi, Yasushi; and Kuroda, Katsuhiro, 4,658,136, Cl. 250-310.000.
Nakaji, Etsuo, to Dainippon Screen Mfg. Co., Ltd. System for prevention of contact between analyzing head and transparent drum of color scanner. 4,654,526, 3-31-87, Cl. 250-234.000.
Nakaji, Takayuki, to Daisho Seiki Kabushiki Kaisha. Duplex-head surface grinder. 4,635,401, 1-13-87, Cl. 51-5.00D.
Nakaji, Tarushige: *See*—
Yagi, Naoki; Kim, Kwang Y.; and Nakaji, Tarushige, 4,650,856, Cl. 530-363.000.
Yagi, Naoki; Kim, Kwang Y.; and Nakaji, Tarushige, 4,656,041, Cl. 426-276.000.
Yagi, Naoki; Kim, Kwang Y.; and Nakaji, Tarushige, 4,656,046, Cl. 426-657.000.
Nakajima, Akihiro: *See*—
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Nakajima, Akira: *See*—
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Takamura, Yoshio; and Nakajima, Akira, 4,651,268, Cl. 363-60.000.
Takamura, Yoshio; and Nakajima, Akira, 4,660,138, Cl. 363-61.000.
Takamura, Yoshio; and Nakajima, Akira, 4,667,280, Cl. 363-61.000.
Takamura, Yoshio; and Nakajima, Akira, 4,675,795, Cl. 363-61.000.
Takamura, Yoshio; and Nakajima, Akira, 4,716,512, Cl. 363-61.000.
Nakajima, Atsushi: *See*—
Murakami, Clitkara; Nakajima, Atsushi; Shimamoto, Yoshiharu; and Takahashi, Hiroshi, 4,652,780, Cl. 310-90.500.
Nakajima Dokosho Company Limited: *See*—
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Nakajima, Masahiko, 4,688,551, Cl. 126-414.000.
Nakajima, Etsuro: *See*—
Okuyama, Masayoshi; Kido, Yukio; Mimura, Isao; and Nakajima, Etsuro, 4,697,931, Cl. 368-223.000.
Nakajima, Fumito: *See*—
Okada, Hideo; Takeuchi, Masato; Okabe, Sigeru; Tobita, Hiroshi; Matsuda, Shimpei; Tamura, Kohki; and Nakajima, Fumito, 4,656,735, Cl. 29-623.100.
Nakajima, Hideki, to Shimano Industrial Company Limited. Brake for a fishing reel. 4,650,135, 3-17-87, Cl. 242-84.52B.
Nakajima, Hideki, to Shimano Industrial Company Limited. Brake for a fishing reel. 4,676,452, 6-30-87, Cl. 242-84.52B.
Nakajima, Hideo: *See*—
Sakamoto, Setsu; Nakagawa, Yasuhiro; Yamauchi, Isamu; Zaizen, Takashi; Suzuki, Katsumi; Shimamoto, Susumu; and Nakajima, Hideo, 4,675,156, Cl. 420-34.000.
Nakajima, Hirochika: *See*—
Shirasaki, Masataka; Nakajima, Hirochika; Furukawa, Yasuo; and Inagaki, Takefumi, 4,637,027, Cl. 372-27.000.
Nakajima, Hirokazu: *See*—
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Nakajima, Hiromichi: *See*—
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Nakajima, Hiroshi: *See*—
Obayashi, Akira; Hiraoka, Nobutsugu; Kita, Keiko; and Nakajima, Hiroshi, 4,668,631, Cl. 435-199.000.
Nakajima, Hiroyasu, to Hitachi, Ltd. Thin film magnetic head having a sliding surface. 4,649,448, 3-10-87, Cl. 360-122.000.
Nakajima, Hiroyuki; Miyamoto, Fumiyuki; Murayama, Masakazu; and Jidai, Eiki, to Mitsubishi Denki Kabushiki Kaisha. Epoxy impregnating resin composition. 4,652,619, 3-24-87, Cl. 525-502.000.
Nakajima, Hisai: *See*—
Ibi, Akira; Sato, Takushi; Yamaguchi, Akihiro; Takahashi, Shigeru; Shishido, Shigeyuki; Tamai, Shoji; and Nakajima, Hisai, 4,687,836, Cl. 528-353.000.
Nakajima, Isamu; Nakashima, Yasuo; Miyazaki, Nobuyuki; and Ishino, Kazuo, to Mitsubishi Denki Kabushiki Kaisha. Ceiling suspended air conditioner. 4,702,087, 10-27-87, Cl. 62-285.000.
Nakajima, Isao: *See*—
Higeta, Kazuya; Daikoku, Takahiro; Fujioka, Kazumasa; and Nakajima, Isao, 4,672,392, Cl. 346-76.0PH.
Nakajima, Jun: *See*—
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Nakajima, Junichi; Nakayama, Kenji; and Takizawa, Takeshi, to Fuji Kogyo Kabushiki Kaisha. Barking machine. 4,685,498, 8-11-87, Cl. 144-208.00B.
Nakajima, Junichi, to Fuji Kogyo Kabushiki Kaisha. Barking machine. 4,691,750, 9-8-87, Cl. 144-208.00B.
Nakajima, Junya: *See*—
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Nakajima, Kazuo: *See*—
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Nakajima, Keiji. Ball for ballgames and manufacturing process thereof. 4,643,424, 2-17-87, Cl. 273-60.00B.
Nakajima, Keisuke: *See*—
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Shochi, Toshiyuki; and Nakajima, Kenei, 4,673,173, Cl. 269-32.000.
Nakajima, Kenji, to Arriyoshi Nakamura. Apparatus for making connecting pipes for connecting ducts. 4,704,885, 11-10-87, Cl. 72-50.000.
Nakajima, Kichio: *See*—
Tokairin, Hiroaki; Honma, Kazuo; Nakajima, Kichio; Nagasawa, Kiyoshi; and Aritake, Takeshi, 4,710,884, Cl. 364-513.000.
Nakajima, Kihei, to Kabushiki Kaisha Toshiba. Method of and system for controlling a photovoltaic power system. 4,649,334, 3-10-87, Cl. 323-299.000.
Nakajima, Kiyoharu; Ito, Taisuke; and Nakamura, Yusui, to Hitachi Seiko Ltd. Tool failure detection apparatus. 4,667,113, 5-19-87, Cl. 250-561.000.
Nakajima, Koe: *See*—
Kuwano, Tsuyoshi; Sanagi, Shiroh; and Nakajima, Koe, 4,678,522, Cl. 148-12.00C.
Nakajima, Kohei; Nishio, Kazuaki; and Watanabe, Hiroshi, to Ube Industries, Ltd. Transparent aromatic polyimide. 4,696,994, 9-29-87, Cl. 528-176.000.
Nakajima, Koichi: *See*—
Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.
Nakajima, Kouichi: *See*—
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Nakajima, Masahiko, to Nakajima Dokosho Company Limited. Heating iron using liquefied gas. 4,641,632, 2-10-87, Cl. 126-413.000.
Nakajima, Masahiko, to Nakajima Dokosho Company Ltd. Heating apparatus using liquefied gas. 4,648,380, 3-10-87, Cl. 126-414.000.
Nakajima, Masahiko, to Nakajima Dokosho Company Limited. Heat processing device using a liquefied gas. 4,688,551, 8-25-87, Cl. 126-414.000.
Nakajima, Masahiro; and Hashimoto, Hiromi, to NEC Corporation. Channel monitoring circuit for use in a repeater station over radio digital transmission. 4,653,070, 3-24-87, Cl. 375-3.000.
Nakajima, Masao: *See*—
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Nakajima, Masayoshi: *See*—
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Nakajima, Masayuki; Sato, Shinichi; Tokui, Akira; Kawai, Akira; Nagatomo, Masao; and Ozaki, Hiroji, to Mitsubishi Denki Kabushi

Kaisha. Method for fabricting a semiconductor device. 4,702,796, 10-27-87, Cl. 156-653.000.
Nakajima, Motoki. *See*—
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Nakajima, Nobuyoshi; and Hishinuma, Kazuhiro, to Fuji Photo Film Co., Ltd. Alignment procedure for radiation images undergoing subtraction processing. 4,710,875, 12-1-87, Cl. 364-414.000.
Nakajima, Nobuyoshi. *See*—
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Nakajima, Nobuyuki, to Diesel Kiki Co., Ltd. Acceleration or inclination sensors. 4,676,103, 6-30-87, Cl. 73-516.0LM.
Nakajima, Nobuyuki; and Takahashi, Tadahiro, to Diesel Kiki Co., Ltd. Compressor with rotation sensor. 4,704,072, 11-3-87, Cl. 417-223.000.
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Nakajima, Sadahiro; and Toratani, Hisayoshi, to Hoya Corporation. Process for producing porous antireflective coatings. 4,693,310, 9-15-87, Cl. 427-168.000.
Nakajima, Shigemi, to Kabushiki Kaisha Nakajima Tekkosho. Lifting magnet unit with a gripping mechanism. 4,715,631, 12-29-87, Cl. 294-2.000.
Nakajima, Shigeo. *See*—
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Nakayama, Wataru; Hirasawa, Shigeki; and Nakajima, Tadakatsu, 4,694,378, Cl. 361-385.000.
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Nakajima, Tadao, to Sanden Corporation. Compressor malfunction device having engine start-up override. 4,703,627, 11-3-87, Cl. 62-133.000.
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Shigeki, Kiyoshi; and Nakajima, Takao, 4,676,856, Cl. 156-201.000.
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Nakajima, Yasuo; Yamamoto, Yoshiharu; Miyatake, Yoshito; Nagaoka, Yoshitomi; and Ono, Shusuke, to Matsushita Electric Industrial Co., Ltd. Compact projection lens. 4,690,515, 9-1-87, Cl. 350-432.000.
Nakajima, Yasuo. *See*—
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Takazoe, Ichiro; Ohta, Kosei; Shimizu, Junichi; Suzuki, Kazumasa; Iwakura, Tatsuya; and Nakajima, Yoshikazu, 4,695,326, Cl. 127-30.000.
Nakajima, Yoshinori, to Ricoh Company, Ltd. Bidirectional serial printer. 4,681,473, 7-21-87, Cl. 400-323.000.
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Maehara, Osamu; and Nakajima, Yoshitaka, 4,650,996, Cl. 250-231.0SE.
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Kitahara, Shizuo; and Nakakawaji, Fujito, 4,704,427, Cl. 524-531.000.
Nakakawazi, Mikio. *See*—
Unno, Shohei; Nakakawazi, Mikio; and Suzuki, Kazufumi, 4,692,760, Cl. 340-756.000.
Nakaki, Masashi; Terayaki, Katsumi; Shimomura, Tadao; and Kimura, Kazumasa, to Nippon Shokubai Kagaku Kogyo Co. Ltd. Method for production of polymer. 4,656,232, 4-7-87, Cl. 526-88.000.
Nakakouji, Hisatada. *See*—
Ogata, Hajime; Nakakouji, Hisatada; Akeda, Yasuhiro; Ichida, Toshio; Irie, Toshio; and Otsuka, Sachiko, 4,687,713, Cl. 428-628.000.
Nakakura, Yukimori; and Kato, Nobuyuki, to Sharp Kabushiki Kaisha. MOSFET semiconductor device and manufacturing method thereof. 4,695,479, 9-22-87, Cl. 437-228.000.
Nakama, Daiji; and Arakawa, Masaru, to Nifco Inc. Screw grommet. 4,704,059, 11-3-87, Cl. 411-182.000.
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Mizusawa, Akira; and Nakama, Daiji, 4,679,958, Cl. 403-143.000.
Nakama, Katsuhiko; Ninomiya, Hiroshi; Michishige, Toru; and Itsuki, Fumiaki, to Omron Tateisi Electronics Co. Connector built from one or more single rowed housings with long lasting locking mechanism. 4,709,976, 12-1-87, Cl. 439-350.000.
Nakamata, Hideo, to Toyota Jidosha Kabushiki Kaisha. Process for joining different kinds of synthetic resins. 4,636,609, 1-13-87, Cl. 219-121.0LD.
Nakamats, Yoshiro. Apparatus for converting radiant energy such as light or heat directly into turning force. 4,634,343, 1-6-87, Cl. 416-3.000.
Nakamats, Yoshiro. Container for floppy disks and the like. 4,696,397, 9-29-87, Cl. 206-444.000.
Nakamatsu, Toshio; Matsuo, Yoshikazu; and Tezuka, Yasuo, to Sumitomo Chemical Company, Limited. Reactive dye having both monochlorotriazinyl and vinylsulfone type reactive groups. 4,667,022, 5-19-87, Cl. 534-638.000.
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Nakamatsu, Toshio; Miyamoto, Tetsuya; and Imada, Kunihiko, to Sumitomo Chemical Company, Limited. Reactive dye composition, mixture of reactive copper phthalocyanine dyes, dichloro-triazinyl dye and vinyl sulphonyl type dye. 4,711,641, 12-8-87, Cl. 8-524.000.
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Goto, Hideo; and Imamura, Akira, 4,686,588, Cl. 360-76.000.
Kobayashi, Kozo; and Goto, Hideo, 4,710,907, Cl. 369-6.000.
Nakamuchi, Niro, 4,639,812, Cl. 360-126.000.
Uchikoshi, Gohji; and Terada, Akio, 4,659,972, Cl. 318-616.000.
Yamada, Fumiaki, 4,636,899, Cl. 360-123.000.
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Nakamichi, Koichi: *See*—
Ushimaru, Koichi; Nakamichi, Koichi; and Saito, Hitoshi, 4,702,918, Cl. 424-461.000.

Nakamichi, Kyoko: *See*—
Yoshizawa, Junji; Tsuchiya, Yoshimi; Hirayama, Yukio; Shimada, Kaoru; Mino, Nobuyuki; Nakamichi, Kyoko; and Matsumoto, Ikuo, 4,668,799, Cl. 514-252.000.

Nakamichi, Niro, to Nakamichi Corporation. Magnetic head and apparatus for automatically adjusting the azimuth position thereof. 4,639,812, 1-27-87, Cl. 360-126.000.

Nakamichi, Yuji: *See*—
Yamazaki, Iwao; Nakamichi, Yuji; Abe, Keizo; and Okudera, Tatsuya, 4,682,221, Cl. 358-107.000.

Nakamizo, Hiromitsu; and Mochida, Takashi, to Sony Corporation. Rotation sensor with co-planar velocity and position responsive elements. 4,695,795, 9-22-87, Cl. 324-208.000.

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Muto, Kenji; Sugaya, Toru; Kuroda, Tokuyuki; Hashimoto, Tamotsu; Yamada, Koji; Nakamizo, Nobuhiro; and Watanabe, Minoru, 4,639,522, Cl. 546-194.000.

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Harada, Kosuke; Murata, Katsuaki; and Nakamizo, Takazi, 4,642,549, Cl. 323-210.000.

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Nakamori, Masao: *See*—
Nakamura, Shigekazu; Kitazawa, Osamu; Nakamori, Masao; and Ohzeki, Yoshiyuki, 4,646,194, Cl. 360-137.000.

Nakamoto, Atsuhiro: *See*—
Matsumura, Masahiro; Ogasawara, Kenzi; Nakamoto, Atsuhiro; and Sugawa, Yoshihisa, 4,680,377, Cl. 528-322.000.

Nakamoto, Hideo; and Okaya, Tsutomu, to Mitsubishi Rayon Co., Ltd. Coating composition. 4,650,819, 3-17-87, Cl. 523-223.000.

Nakamoto, Hideo; and Fukushima, Hiroshi, to Mitsubishi Rayon Co., Ltd. Plastic lens. 4,668,751, 5-26-87, Cl. 526-314.000.

Nakamoto, Hideo; Aosai, Fumito; Fukushima, Hiroshi; and Suda, Eriko, to Mitsubishi Rayon Company Limited. Ultraviolet curable ink composition. 4,680,368, 7-14-87, Cl. 528-49.000.

Nakamoto, Hideo: *See*—
Imao, Shoji; Nakamoto, Hideo; Osaka, Norihisa; Takesue, Masatoshi; Kodama, Hitoshi; Suzuki, Kinuko; and Inomoto, Masataka, deceased, 4,704,328, Cl. 428-324.000.

Nakamoto, Mitsuyoshi: *See*—
Inui, Isao; Hosaka, Masato; Nakamoto, Mitsuyoshi; and Okamoto, Kenji, 4,639,208, Cl. 431-1.000.

Nakamoto, Shuhei: *See*—
Honda, Kazuo; Horii, Yoshiaki; Hiramatsu, Kinuo; Nakamoto, Shuhei; and Kudo, Takashi, 4,678,054, Cl. 180-225.000.

Nakamoto, Takayuki, to Iwata Electric Works Co., Ltd. Surgical needle extractor having a disposable chuck, a chuck and a handle. 4,640,274, 2-3-87, Cl. 128-321.000.

Nakamura, Aki, to Mitsubishi Denki Kabushiki Kaisha. Vertical deflection circuit. 4,659,968, 4-21-87, Cl. 315-398.000.

Nakamura, Akira, to Nippon Gakki Seizo Kabushiki Kaisha. Method for making a diaphragm for an electro-acoustic transducer. 4,639,283, 1-27-87, Cl. 156-89.000.

Nakamura, Akira; Oinoue, Hiroshi; Ishida, Tomoyuki; and Shintani, Kenji, to Sony Corporation. Coma correction in optical head with astigmatism for focusing error detection. 4,709,139, 11-24-87, Cl. 250-201.000.

Nakamura, Asao: *See*—
Onuki, Takashi; Naora, Hirokazu; and Nakamura, Asao, 4,658,055, Cl. 562-503.000.

Nakamura Bussan Kabushiki Kaisha: *See*—
Sugiyama, Yasuo; Hiraoka, Osamu; Nakazawa, Tamotsu; and Nakamura, Kenji, 4,643,939, Cl. 428-283.000.

Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; Sasaki, Toshiki; and Nishio, Yoshihiro, to Dainippon Ink and Chemicals, Inc. Photosensitive image-forming material comprised of carboxyl groups developable in aqueous alkaline base solutions. 4,640,887, 2-3-87, Cl. 430-275.000.

Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; and Sasaki, Toshiki, to Dainippon Ink and Chemicals, Inc. Photosensitive image-forming material having a layer of photosensitive polyester modified with chain extender. 4,684,601, 8-4-87, Cl. 430-284.000.

Nakamura, Daijiro, to SM Industrial Co., Ltd. Screen-taking-up device. 4,651,940, 3-24-87, Cl. 242-55.000.

Nakamura, Daijiro, to SM Industrial Co., Ltd. Screen roll means. 4,681,279, 7-21-87, Cl. 242-107.300.

Nakamura, Daisuke, to Suzuki Jidosha Kogyo Kabushiki Kaisha. Power switching apparatus of outboard engines. 4,668,198, 5-26-87, Cl. 440-75.000.

Nakamura, Eiichi: *See*—
Kato, Hiroshi; and Nakamura, Eiichi, 4,669,419, Cl. 119-3.000.

Nakamura, Eiji: *See*—
Abe, Shuro; Yabuki, Yoshiro; Takamatsu, Yasuhiko; Yamaguchi, Takayuki; Ohta, Masatoshi; and Nakamura, Eiji, 4,651,164, Cl. 346-76.0PH.
Itoh, Katsuhisa; Watanabe, Yoshiaki; Nakamura, Eiji; and Toyoshima, Masayasu, 4,684,448, Cl. 204-71.000.
Iwasa, Masakazu; Morita, Kazuhiko; Nakatani, Sadao; and Nakamura, Eiji, 4,670,314, Cl. 428-35.000.
Kaku, Toshiaki; Matsuno, Koichiro; Kawada, Osamu; Ito, Ryozo; and Nakamura, Eiji, 4,682,864, Cl. 350-511.000.
Matsumoto, Tooru; Ishikawa, Satoshi; Nakamura, Eiji; Izuoka, Tomio; and Okada, Tomoyuki, 4,657,963, Cl. 524-406.000.

Nakamura, Eitaro: *See*—
Hata, Kotaro; and Nakamura, Eitaro, 4,707,410, Cl. 428-413.000.

Nakamura, Fumio: *See*—
Naruse, Seishiro; and Nakamura, Fumio, 4,672,682, Cl. 382-53.000.

Nakamura, Gen: *See*—
Onoda, Ruri; Kuroki, Yoichi; and Nakamura, Gen, 4,694,186, Cl. 250-578.000.

Nakamura, Genshiro: *See*—
Ishihara, Takashi; Okaniwa, Kazuhiro; and Nakamura, Genshiro, 4,638,109, Cl. 136-244.000.
Sato, Kazuhiko; Nakamura, Genshiro; and Itagaki, Takashi, 4,701,572, Cl. 136-258.000.

Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, to Nisshin Steel Co., Ltd. Determination of silicon in molten metal. 4,657,641, 4-14-87, Cl. 204-1.00T.

Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, to Nisshin Steel Co., Ltd. Apparatus for the determination of silicon in molten metal. 4,708,783, 11-24-87, Cl. 204-423.000.

Nakamura, Hajime: *See*—
Uchida, Kohachi; Shibuya, Kunihiro; and Nakamura, Hajime, 4,678,314, Cl. 355-5.000.

Nakamura, Haruhiko; and Tempaku, Junya, to Fujitsu Limited. Phase synchronization circuit. 4,713,621, 12-15-87, Cl. 328-55.000.

Nakamura, Haruo, to Seiko Epson Kabushiki Kaisha. Apparatus for electrothermal printing. 4,704,616, 11-3-87, Cl. 346-76.0PH.

Nakamura, Haruo: *See*—
Aoki, Kenji; Takei, Katsumori; Nakamura, Haruo; and Matsushita, Yoshikazu, 4,671,616, Cl. 350-331.00R.

Nakamura, Hidehiro: *See*—
Morita, Ichiro; Taika, Tadao; and Nakamura, Hidehiro, 4,694,049, Cl. 525-440.000.

Nakamura, Hideki: *See*—
Ishi, Yuuhei; and Nakamura, Hideki, 4,688,217, Cl. 370-104.000.
Takai, Haruki; Ujiie, Mikio; and Nakamura, Hideki, 4,712,212, Cl. 370-104.000.

Nakamura, Hideo: *See*—
Aoki, Masakazu; Horiguchi, Masashi; Nakagome, Yoshinobu; Ikenaga, Shinichi; Shimohigashi, Katsuhiro; Masuhara, Toshiaki; Itoh, Kiyoo; Nakamura, Hideo; and Minato, Osamu, 4,701,884, Cl. 365-189.000.
Funabashi, Tsuneo; Iwasaki, Kazuhiko; and Nakamura, Hideo, 4,716,522, Cl. 364-200.000.
Sakai, Yoshio; Nagai, Ryo; Yamamoto, Shuichi; Nakamura, Hideo; and Noguchi, Kouki, 4,707,718, Cl. 357-45.000.

Nakamura, Hiro; Ohkawa, Shuji; Ohtsuka, Yasuo; Tachikawa, Hajime; and Shinozaki, Toshiya, to Hitachi, Ltd. Method for handling a work in a robot system. 4,712,970, 12-15-87, Cl. 414-730.000.

Nakamura, Hiroaki, to Olympus Optical Co., Ltd. Electronic flash. 4,677,347, 6-30-87, Cl. 315-241.00P.

Nakamura, Hiroki: *See*—
Sagoi, Masayuki; Tanaka, Yoichiro; and Nakamura, Hiroki, 4,701,374, Cl. 428-336.000.

Nakamura, Hiromi; Takahashi, Takehiko; Narazaki, Norio; Yamamoto, Kazuo; and Sayama, Norio, to Mitsubishi Gas Chemical Company, Inc. Regenerative gas turbine cycle. 4,653,268, 3-31-87, Cl. 60-39.050.

Nakamura, Hiroshi; Toyama, Osamu; and Kani, Norikazu, to Toyoda Koki Kabushiki Kaisha. Industrial robot. 4,637,774, 1-20-87, Cl. 414-735.000.

Nakamura, Hiroshi, to Tokyo Shibaura Denki Kabushiki Kaisha. Segmented one and two level paging address translation system. 4,654,777, 3-31-87, Cl. 364-200.000.

Nakamura, Hiroshi; Kiuchi, Eiichi; and Hagisawa, Toshihiko, to NEC Corporation. Adaptive radar signal processing apparatus. 4,658,255, 4-14-87, Cl. 342-91.000.

Nakamura, Hiroshi; Matsuo, Shirou; and Kawai, Noriaki, to Toyota Jidosha Kabushiki Kaisha. Exhaust gas recirculation apparatus for engine with turbocharger. 4,669,442, 6-2-87, Cl. 123-571.000.

Nakamura, Hiroshi: *See*—
Fukuda, Eisuke; Takeda, Yukio; Daido, Yoshimasa; Nakamura, Hiroshi; Sasaki, Susumu; and Takenaka, Sadao, 4,665,532, Cl. 375-19.000.
Higashi, Housei; Terayama, Takao; Nishijima, Hideo; and Nakamura, Hiroshi, 4,675,752, Cl. 360-10.300.
Ohta, Takeshi; Nakamura, Hiroshi; and Murata, Kazushi, 4,685,850, Cl. 414-225.000.
Saito, Yasuhisa; Morii, Akira; and Nakamura, Hiroshi, 4,663,401, Cl. 525-505.000.
Tateishi, Hideki; Shimizu, Tamotsu; Aiuchi, Susumu; Iwashita, Katsuhiro; and Nakamura, Hiroshi, 4,675,906, Cl. 204-298.000.

Nakamura, Hirotoshi: *See*—
Ooyabu, Shinji; Suzuki, Kazuo; Kondo, Masahiro; and Nakamura, Hirotoshi, 4,653,460, Cl. 123-645.000.

Nakamura, Hiroyasu, to NEC Corporation. Multiple access radio telephone system selectively operating on full-duplex and half-duplex modes. 4,712,229, 12-8-87, Cl. 379-58.000.

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Nakamura, Hiroyuki: *See*—
Ito, Masashi; Yasuda, Hiroshi; Nakamura, Hiroyuki; and Matsuno, Toshiki, 4,646,283, Cl. 369-256.000.

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s for producing polyethylene extruded foams. 4,649,001,
264-50.000.

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sashi; and Abe, Noriyuki, to Diesel Kiki Co., Ltd. Fuel
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, Akio; and Nakamura, Hisashi, 4,700,367, Cl. 377-2.000.

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79, Cl. 123-370.000.

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Hideo; Shinagawa, Kiminari; and Iijima, Akemi, to Hita-
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,897, 1-13-87, Cl. 360-119.000.

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8-3-87, Cl. 292-216.000.

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Omi, Fumiya; and Koinuma, Nobuyuki, to Ricoh Com-
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thereof and their uses. 4,670,322, 6-2-87, Cl. 428-172.000.

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6-16-87, Cl. 49-253.000.

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or sensing presence of batteries. 4,690,878, 9-1-87, Cl.

kushi: *See*—

Norihiro; Tominaga, Shinji; Kashima, Masataka; and
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Explosion-preventing suspension insulator. 4,658,092,
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Hiroaki; and Nakamura, Joji, 4,637,758, Cl. 405-248.000.

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pparatus having an automatic control loop. 4,678,938, 7-7-87,
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Cl. 361-433.000.

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Toppan Printing Co., Ltd.; and Fuji Electric Co., Ltd.
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Hiroshi, to Nippondenso Co., Ltd. Fog detecting apparatus
vehicle. 4,636,643, 1-13-87, Cl. 250-338.000.

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Koichi; Horiuchi, Yasuhiro; and Nakamura, Kanehito,
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11-24-87, Cl. 60-589.000.

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47.000.

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4.500.

Katsuya: *See*—

ama, Akira; Nakamura, Katsuya; Hata, Kotaro; and Yama-
o, Makoto, 4,707,411, Cl. 428-413.000.

Katsuyuki: *See*—

a, Haruo; Nishiyama, Masafumi; Nakamura, Katsuyuki; and
gami, Kazuhiro, 4,656,993, Cl. 123-643.000.

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Nakamura, Kazumasa: *See*—

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Nakamura, Kazuo, to Fujitsu Limited. Method of screening resin-sealed semiconductor devices. 4,661,771, 4-28-87, Cl. 324-158.00D.

Nakamura, Kazuo: *See*—

Ono, Takesi; Nakamura, Kazuo; and Okamoto, Toshio, 4,647,932, Cl. 342-461.000.

Tagami, Katsutoshi; Tsuchiya, Yoshikazu; and Nakamura, Kazuo, 4,652,853, Cl. 340-52.00F.

Nakamura, Kazuyoshi: *See*—

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Nakamura, Keiichi; Honaga, Susumu; Suzuki, Mikio; and Takeuchi, Yoshiyuki, to Toyoda Koki Kabushiki Kaisha. Power steering system with hydraulic reaction. 4,676,334, 6-30-87, Cl. 180-142.000.

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Mullin, John G., Jr.; Nakamura, Keiji; Tilley, Jefferson W.; and Watanabe, Hiroshi, 4,696,930, Cl. 514-256.000.

Nakamura, Ken: *See*—

Haneda, Satoshi; Itoh, Takashi; Nakamura, Ken; and Tomono, Makoto, 4,675,267, Cl. 430-102.000.

Nakamura, Kenichi: *See*—

Murayama, Naohiro; Kakutani, Haruko; Mizuno, Toshiya; Nakamura, Kenichi; and Terasaki, Syuji, 4,656,234, Cl. 526-255.000.

Teramoto, Yoshikichi; Nakamura, Kenichi; and Murayama, Naohiro, 4,687,803, Cl. 524-413.000.

Nakamura, Kenichiro, to Tsubakimoto Chain Co. Case for driving section of linear actuator. 4,679,451, 7-14-87, Cl. 74-606.00R.

Nakamura, Kenji. Re-sealable dispenser container. 4,651,874, 3-24-87, Cl. 206-205.000.

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Nakamura, Kenji: *See*—

Fukunaga, Yukio; Shibahata, Yasuji; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,705,130, Cl. 180-140.000.

Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,666,013, Cl. 180-141.000.

Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,705,131, Cl. 180-140.000.

Shibanai, Ichiro; and Nakamura, Kenji, 4,677,177, Cl. 527-300.000.

Shibanai, Ichiro; and Nakamura, Kenji, 4,711,936, Cl. 525-485.000.

Sugiyama, Yasuo; Hiraoka, Osamu; Nakazawa, Tamotsu; and Nakamura, Kenji, 4,643,939, Cl. 428-28..000.

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Nakamura, Kenzo: *See*—

Inouye, Masayori; and Nakamura, Kenzo, 4,666,836, Cl. 435-68.000.

Nakamura, Kiyoaki: *See*—

Yokoyama, Yasuyuki; Nakamura, Kiyoaki; Goi, Hiroshi; and Fujioka, Koichiro, 4,681,313, Cl. 271-273.000.

Nakamura, Kiyokazu; Kometani, Kiichi; and Inoue, Toshihide, to Toray Industries Inc. Polyester composition, the moldings of the

compositon and the process for manufacturing of the moldings. 4,664,983, 5-12-87, Cl. 428-458.000.

Nakamura, Kiyoshi; Isaka, Masayoshi; and Uchiyama, Toyoharu, to Hitachi, Ltd. Power supply apparatus for linear motor. 4,689,530, 8-25-87, Cl. 318-135.000.

Nakamura, Kiyoshi: *See*—
- Hirotsu, Tetsuji; Kiwaki, Hisakatsu; Nakamura, Kiyoshi; Narita, Hiroshi; Kasai, Syozi; Kimura, Akira; and Tsutsui, Yoshio, 4,701,662, Cl. 318-52.000.
- Takebayashi, Hiroaki; Haruna, Fujio; Nakamura, Kiyoshi; and Inoue, Koichi, 4,634,300, Cl. 384-548.000.
- Tsutsui, Yoshio; Nakamura, Kiyoshi; Kimura, Akira; Imai, Hayato; Tamura, Kaoru; and Miura, Shozaichi, 4,700,283, Cl. 363-68.000.

Nakamura, Ko: *See*—
- Ienaga, Kazuharu; and Nakamura, Ko, 4,647,574, Cl. 514-390.000.
- Ienaga, Kazuharu; Nakamura, Ko; and Ishii, Akira, 4,683,240, Cl. 514-390.000.
- Ienaga, Kazuharu; Nakamura, Ko; and Ishii, Akira, 4,708,954, Cl. 514-183.600.
- Ienaga, Kazuharu; and Nakamura, Ko, 4,708,961, Cl. 514-423.000.

Nakamura, Koichi; and Tanaka, Mitsuo, to Nippon Sheet Glass Co., Ltd. Feeding and processing apparatus. 4,699,263, 10-13-87, Cl. 198-435.000.

Nakamura, Koichi; Ishibashi, Masashi; Kameda, Hideki; and Makiyo, Minoru, to Fujikura Ltd. Method of recovering a heat shrinkable magnetic shielding article over an electrical component. 4,699,743, 10-13-87, Cl. 264-104.000.

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Nakamura, Koichi; Hattori, Michiharu; Tamura, Tadashi; Tejima, Toru; Takashi, Naotake; Imokawa, Genji; and Hotta, Hajime, to Kao Corporation. Long wavelength ultraviolet ray absorber. 4,710,371, 12-1-87, Cl. 424-59.000.

Nakamura, Koichi: *See*—
- Aono, Toshiaki; Nakamura, Koichi; Shibata, Takeshi; and Nakamura, Taku, 4,636,435, Cl. 430-203.000.
- Aono, Toshiaki; Sato, Kozo; Mukunoki, Yasuo; and Nakamura, Koichi, 4,665,005, Cl. 430-203.000.
- Aono, Toshiaki; and Nakamura, Koichi, 4,704,344, Cl. 430-203.000.
- Hori, Kimihiko; Nakamura, Koichi; and Takashi, Naotake, 4,670,585, Cl. 562-459.000.

Nakamura, Koji, to Mitsubishi Denki Kabushiki Kaisha. Color cathode ray tube. 4,638,212, 1-20-87, Cl. 313-408.000.

Nakamura, Koki; Kojima, Tetsuro; Toyoda, Takashi; and Ikeda, Hideo, to Fuji Photo Film Co., Ltd. Silver halide photographic material. 4,675,276, 6-23-87, Cl. 430-446.000.

Nakamura, Koki: *See*—
- Deguchi, Naoyasu; Kojima, Tetsuro; Ohno, Shigeru; Nakamura, Koki; and Miyazaki, Hideo, 4,696,894, Cl. 430-551.000.
- Ikeda, Hideo; Ohno, Shigeru; Nakamura, Koki; and Miyasaka, Nobuaki, 4,657,847, Cl. 430-523.000.
- Mifune, Hiroyuki; Nakamura, Koki; and Ishiguro, Shoji, 4,634,660, Cl. 430-375.000.
- Takahashi, Toshiro; and Nakamura, Koki, 4,636,456, Cl. 430-266.000.

Nakamura Koki Co., Ltd.: *See*—
- Kawano, Hiroshige, 4,714,093, Cl. 136-30.000.

Nakamura, Kouzoo; Hamada, Nagaharu; Tadauchi, Masaharu; Kozima, Yasuyuki; Suemori, Noboru; and Koumo, Takamitu, to Hitachi, Ltd. Picture signal processing apparatus. 4,694,351, 9-15-87, Cl. 358-256.000.

Nakamura, Kotaro, to Fuji Photo Film Co., Ltd. Color photographic light-sensitive material. 4,668,611, 5-26-87, Cl. 430-507.000.

Nakamura, Kotaro; and Ishikawa, Takatoshi, to Fuji Photo Film Co., Ltd. Method for forming image using silver halide color photographic light-sensitive material. 4,695,530, 9-22-87, Cl. 430-381.000.

Nakamura, Kotaro: *See*—
- Sugiyama, Kiyoshi; and Nakamura, Kotaro, 4,715,108, Cl. 29-568.000.
- Umemoto, Makoto; Nakamura, Kotaro; and Furutachi, Nobuo, 4,696,893, Cl. 430-543.000.

Nakamura, Kousuke: *See*—
- Matsushita, Yasuo; Nakamura, Kousuke; Ura, Mitsuru; and Kobayashi, Fumiyuki, 4,651,192, Cl. 357-74.000.
- Okamura, Hisanori; Miyazaki, Kunio; Akiyama, Hitosi; Itoh, Shinichi; Yasuda, Tomio; Nakamura, Kousuke; Okoshi, Yukio; Kamoshita, Mutuo; and Chiba, Akio, 4,690,793, Cl. 376-136.000.

Nakamura, Kouzaburou: *See*—
- Maruno, Tooru; Nakamura, Kouzaburou; and Sasaki, Shigekuni, 4,637,939, Cl. 427-162.000.

Nakamura, Koyo: *See*—
- Asano, Masaharu; Kawamura, Yoshihisa; and Nakamura, Koyo, 4,672,566, Cl. 364-571.000.

Nakamura, Kozi: *See*—
- Ikeda, Koichi; Nakamura, Kozi; and Okabe, Toshihiro, 4,695,947, Cl. 364-200.000.

Nakamura, Kozoo; Kozima, Yasuyuki; Hamada, Nagaharu; and Sakata, Kunihiro, to Hitachi, Ltd. A method of controlling the movement of a medium to be printed. 4,713,699, 12-15-87, Cl. 358-296.000.

Nakamura, Kunie. Diagnostic applications of phosphofructokinase. 4,710,460, 12-1-87, Cl. 435-15.000.

Nakamura, Kunisuke: *See*—
- Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kuroiwa, Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara, Osami; Yoshida, Jitsuo; and Kobayashi, Mitsugu, 4,671,376, Cl. 180-249.000.

Nakamura, Kyoichi: *See*—
- Maeda, Hirofumi; Nakamura, Kyoichi; and Hatamoto, Toshiko, 4,686,087, Cl. 422-133.000.
- Maeda, Hirofumi; Nakamura, Kyoichi; and Fukui, Hisaaki, 4,687,641, Cl. 422-133.000.

Nakamura, Kyuzo; and Ota, Yoshifumi, to Nihon Shinku Gijutsu Kabushiki Kaisha. Apparatus for manufacturing of abrasion resistant magnetic recording product. 4,655,167, 4-7-87, Cl. 118-718.000.

Nakamura, Kyuzo; Ota, Yoshifumi; Asari, Shin; and Asaka, Tsutomu, to Nihon Shinku Gijutsu Kabushiki Kaisha. Optical magnetic recording member. 4,661,420, 4-28-87, Cl. 428-692.000.

Nakamura, Kyuzo; Ota, Yoshifumi; and Asaka, Tsutomu, to Nihon shinku Gijutsu Kabushiki Kaisha. Optical magnetic recording member. 4,683,176, 7-28-87, Cl. 428-692.000.

Nakamura, Makoto; Suzuki, Hideo; and Kuroki, Toshihiko, to Kabushiki Kaisha Toshiba. Integrated digital circuit for processing speech signal. 4,686,512, 8-11-87, Cl. 340-347.000D.

Nakamura, Makoto, to Nissan Motor Co., Ltd. Hydraulic lash adjuster. 4,688,525, 8-25-87, Cl. 123-90.350.

Nakamura, Makoto; Takahashi, Mitsuru; Osawa, Namiki; and Murakami, Yuichi, to Nissan Motor Co., Ltd. Belt tensioner unit for internal combustion engine or the like. 4,713,044, 12-15-87, Cl. 474-135.000.

Nakamura, Mami: *See*—
- Goh, Atsushi; Nakamura, Mami; Endo, Kenji; and Hikido, Mitsuo, 4,654,074, Cl. 71-92.000.

Nakamura, Tamotsu. *See*—
- Kugo, Masaru; Igarashi, Osamu; Katogi, Kozo; Ito, Hiroshi; and Nakamura, Mamoru, 4,673,252, Cl. 350 V-339.100F.

Nakamura, Masaaki: *See*—
- Hirano, Hirofumi; Nakamura, Masaaki; Hasumi, Hitoshi; Inoue, Shoichi; and Furukawa, Akiteru, 4,707,159, Cl. 400-639.100.
- Kaneda, Hiroshi; Takagi, Mitsuhiro; and Nakamura, Masaaki, 4,685,581, Cl. 220-3.200.
- Yamawaki, Masami; Chino, Shuichi; Minamisawa, Tsuyoshi; and Nakamura, Masaaki, 4,661,570, Cl. 526-88.000.

Nakamura, Masafumi: *See*—
- Iso, Yoshimi; Nakagaki, Harushige; and Nakamura, Masafumi, 4,675,855, Cl. 369-32.000.

Nakamura, Masakazu, to Nakamura Sengu Kogyo K.K. Sail furling apparatus. 4,671,203, 6-9-87, Cl. 114-106.000.

Nakamura, Masakazu: *See*—
- Katsuragi, Yasuhiro; Matsuda, Naoki; Saiga, Yoshiko; Kobayashi, Yasunobu; Nakamura, Masakazu; and Satoh, Toshio, 4,686,208, Cl. 514-27.000.

Nakamura, Masaki: *See*—
- Koshizuka, Kunihiro; Kitamura, Shigeharu; Abe, Takio; Nakamura, Masaki; Ishii, Fumio; and Hotta, Yuji, 4,643,917, Cl. 427-256.000.

Nakamura, Masanobu: *See*—
- Khe, Nguyen C.; Nakamura, Masanobu; Fukawatase, Mikio; and Takahashi, Kenji, 4,690,862, Cl. 430-93.000.

Nakamura, Masanori: *See*—
- Irukai, Chyuji; Chino, Eiji; Tojima, Yoshio; Komagata, Hideki; and Nakamura, Masanori, 4,666,784, Cl. 428-425.900.

Nakamura, Masao; Takeda, Hideo; Yukawa, Toshihide; and Kawasaki, Harues, to Ajinomoto Co., Inc. Process of producing α-formylsuccinic anhydride. 4,670,568, 6-2-87, Cl. 549-253.000.

Nakamura, Masao: *See*—
- Iwata, Norio; Nakamura, Masao; and Takasagawa, Takashi, 4,702,293, Cl. 152-531.000.
- Sakamoto, Norio; Ikariya, Toshiyuki; Takahashi, Kiyohiko; Nakamura, Masao; and Yanagisawa, Akira, 4,665,472, Cl. 422-56.000.

Nakamura, Masaru, to Kabushiki Kaisha Toshiba. Integrated optical and electric circuit device. 4,667,212, 5-19-87, Cl. 357-19.000.

Nakamura, Masaru; Okajima, Masaki; Komatsubara, Tadashi; Sadamasa, Tetsuo; and Nitta, Koichi, to Kabushiki Kaisha Toshiba. Light emitting diode formed of a compound semiconductor material. 4,706,101, 11-10-87, Cl. 357-17.000.

Nakamura, Masashi; Takagi, Yasuo; and Urakawa, Haruki, to Nissan Motor Co., Ltd. Electric power source device. 4,650,729, 3-17-87, Cl. 429-61.000.

Nakamura, Masashi: *See*—
- Terayama, Yasunori; Nakamura, Masashi; Fujiie, Kazuhiko; and Yoshitoshi, You, 4,687,296, Cl. 350-247.000.

Nakamura, Masato: *See*—
- Yoshida, Makoto; Tano, Kazuhiro; Higuchi, Seizun; and Nakamura, Masato, 4,663,245, Cl. 428-632.000.

Nakamura, Masatoshi: *See*—
- Tohsawa, Yoshio; Kubota, Hitoshi; and Nakamura, Masatoshi, 4,664,016, Cl. 91-369.00A.

Nakamura, Masatsugu: *See*—
- Ohashi, Kunio; Tonegawa, Tadashi; Nagata, Shoichi; and Nakamura, Masatsugu, 4,683,186, Cl. 430-84.000.

Nakamura, Masaya, to Tokyo Juki Industrial Co., Ltd. Button feed tape. 4,705,167, 11-10-87, Cl. 206-348.000.

Nakamura, Masayuki: *See*—
- Ishii, Kouichi; Mizugami, Susumu; Tabuchi, Mamoru; Nakamura, Masayuki; Baba, Toshihiko; and Ritoh, Naotake, 4,672,165, Cl. 219-97.000.

Nakamura, Masuhisa: *See*—
- Harada, Hiroshi; Matsushita, Yoshihiro; Nakamura, Masuhisa; and Yonetani, Yukio, 4,659,709, Cl. 514-229.000.

a-mura, Michio; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, to Dainchiseika Color & Chemicals MFG. Co., Ltd. Pigment composition. 4,698,099, 10-6-87, Cl. 106-288.00R.

Kamura, Michio; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, to Dainchiseika Color & Chemicals Mfg. Co., Ltd. Pigment composition. 4,704,165, 11-3-87, Cl. 106-308.00M.

kamura, Michihiro: *See*—
Gion, Hidenori; Kubota, Kenji; Nakamura, Michihiro; and Yano, Makoto, 4,641,249, Cl. 364-496.000.

kamura, Michinori: *See*—
Hara, Hiroyuki; Nakamura, Michinori; and Sugimoto, Yasuhiro, 4,695,750, Cl. 307-475.000.

kamura, Michio; Tsunoda, Minoru; Murakami, Hiroshi; Matsui, Yuji; Matsuhashi, Noriyasu; and Fukuchi, Kiyoshi, to Honda Giken Kogyo Kabushiki Kaisha. Fuel tank and fuel feed system for a motor-cycle. 4,653,762, 3-31-87, Cl. 280-5.00A.

kamura, Michio: *See*—
Tokita, Kiyoshi; and Nakamura, Michio, 4,636,653, Cl. 313-403.000.
Tokita, Kiyoshi; Nakamura, Michio; and Urata, Hiroshi, 4,652,792, Cl. 313-404.000.

kamura, Minoru: *See*—
Ito, Masarumi; Irie, Yutaka; Ikenoue, Yoshikazu; and Nakamura, Minoru, 4,669,858, Cl. 355-8.000.
Kasai, Minoru; Oka, Takao; Takamagari, Munenori; Saibuta, Chiyoji; and Nakamura, Minoru, 4,682,185, Cl. 17-45.000.
Shiraishi, Motoo; Tanaka, Mamei; Nakamura, Minoru; and Sato, Koichi, 4,659,255, Cl. 405-216.000.

kamura, Mitsuki: *See*—
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,658,626, Cl. 72-405.000.
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,682,685, Cl. 198-621.000.

kamura, Mitsuo: *See*—
Tomita, Tomoya; Hiramoto, Setozo; Okubo, Takesi; Matsuo, Katsuyuki; Ashihara, Hiromoto; Nakamura, Mitsuo; Takahashi, Tsutomu; Fujino, Motoaki; and Hosaka, Kenji, 4,637,134, Cl. 29-741.000.

kamura, Mitsutaka: *See*—
Katsube, Junki; Nakamura, Mitsutaka; and Maeda, Yukio, 4,647,597, Cl. 514-567.000.
Sawaizu, Takeo; Nakamura, Mitsutaka; and Sugiura, Toshihiro, 4,677,847, Cl. 73-64.000.

kamura, Mitsutoshi: *See*—
Tanigami, Yukio; Imo, Shuji; and Nakamura, Mitsutoshi, 4,642,278, Cl. 430-66.000.
Tanigami, Yukio; Imo, Shuji; and Nakamura, Mitsutoshi, 4,642,279, Cl. 430-66.000.

kamura, Morio; Obayashi, Shigeji; Yamamoto, Takashi; Nakanishi, Toshikazu; Tanaka, Hitoshi; and Sakamoto, Yuji, to Seitetsu Kagaku Co., Ltd. Process for producing a water-absorbent resin. 4,683,274, 7-28-87, Cl. 526-216.000.

kamura, Mutsuaki: *See*—
Hamaguchi, Toshiaki; Namikawa, Kazuhira; Nakamura, Mutsuaki; Kuroda, Akio; and Akai, Toshio, 4,646,284, Cl. 369-276.000.
Namikawa, Kazuhira; Hamaguchi, Toshiaki; Nakamura, Mutsuaki; and Kuroda, Akio, 4,639,908, Cl. 369-288.000.

kamura, Nanao: *See*—
Kaneko, Nagao; Nakamura, Nanao; Koyama, Masao; Saitoh, Shozo; and Honda, Hiroki, 4,651,310, Cl. 367-140.000.

kamura, Naoji: *See*—
Masumoto, Hakaru; and Nakamura, Naoji, 4,684,416, Cl. 148-430.000.

kamura, Naotaka; Miyamoto, Yoshimi; Momiyama, Motokazu; Tsubai, Toshiji, deceased (by Tsubai, Miki, legal representative); Imatani, Tatsuo; and Ishihara, Nobuyuki, to Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Ignition distributor with noise suppression electrode oxide coating. 4,652,705, 3-24-87, Cl. 200-19.R.

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kamura, Naotaka: *See*—
Yoshida, Ichiryu; Atsumi, Morihiro; Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo; and Yamada, Manabu, 4,640,996, Cl. 200-19.00R.

kamura, Nobuhiro: *See*—
Kotoh, Keigo; and Nakamura, Nobuhiro, 4,668,200, Cl. 441-7.000.
Kotoh, Keigo; and Nakamura, Nobuhiro, 4,682,173, Cl. 342-51.300.

kamura, Nobuo: *See*—
Matsuzaka, Kenzo; Okano, Seitaro; and Nakamura, Nobuo, 4,698,089, Cl. 65-293.000.
Muramatsu, Shinichi; Shimada, Toshikazu; Matsubara, Sunao; Itoh, Haruo; and Nakamura, Nobuo, 4,642,412, Cl. 136-244.000.

kamura, Norihiko; and Morishima, Hideki, to Rhythm Watch Co., Ltd. Timepiece with built-in timer. 4,659,233, 4-21-87, Cl. 368-260.000.

kamura, Norihiko; Morishima, Hideki; and Yamaguchi, Yoshito, to Rhythm Watch Co. Ltd. Alarm signalling electronic timepiece with timer function. 4,681,465, 7-21-87, Cl. 368-246.000.

kamura, Norimi: *See*—
Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kuroiwa, Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara, Osami; Yoshida, Jituo; and Kobayashi, Mitsugu, 4,671,376, Cl. 180.249.000.

Nakamura, Norio: *See*—
Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, 4,637,711, Cl. 355-72.000.
Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, 4,694,748, Cl. 101-401.100.

Nakamura, Osamu: *See*—
Kimura, Masakatsu; and Nakamura, Osamu, 4,643,928, Cl. 428-36.000.
Okazaki, Susumu; Higuchi, Shunichi; Nakamura, Osamu; and Takahashi, Sachio, 4,687,996, Cl. 324-436.000.

Nakamura, Ritsuji, to Kanai Juyo Kogyo Kabushiki Kaisha. Metallic wire for spinning machinery and the method of manufacturing the same. 4,696,080, 9-29-87, Cl. 19-114.000.

Nakamura, Saburo; Matsuoka, Tsutomu; Yamauchi, Hirofumi; and Sahara, Masamori, to Mazda Motor Corporation. Fuel injection system for diesel engine. 4,640,252, 2-3-87, Cl. 123-446.000.

Nakamura, Saburo; Sakurai, Shigeru; Nishida, Takumi; and Sahara, Masamori, to Mazda Motor Corporation. Intake system for diesel cycle engines. 4,682,576, 7-28-87, Cl. 123-179.00A.

Nakamura, Seiichi; Saito, Mamoru; and Sugawara, Yoshiaki, to Mizusawa Industrial Chemicals, Ltd. Granular stabilizer for chlorine-containing polymers and process for preparation thereof. 4,650,596, 4-21-87, Cl. 252-399.000.

Nakamura, Seiichi, to Citizen Watch Co., Ltd. Buckle for watch bands. 4,675,955, 6-30-87, Cl. 24-656.000.

Nakamura, Seishiro; and Ookami, Katsutoshi, to Kuraray Co., Ltd. Process for forming calcium phosphate ceramic articles. 4,699,742, 10-13-87, Cl. 264-56.000.

Nakamura, Seizo, to Ohara Co., Ltd. Mold material and process for casting of pure titanium or titanium alloy. 4,709,741, 12-1-87, Cl. 164-35.000.

Nakamura, Seizo: *See*—
Ohara, Isao; and Nakamura, Seizo, 4,700,769, Cl. 164-514.000.

Nakamura Seiyu Kogyo K.K.: *See*—
Nakamura, Masakazu, 4,671,200, Cl. 114-106.000.
Yokoyama, Akira, 4,671,201, Cl. 114-102.000.

Nakamura, Shigekazu; Kitazawa, Osamu; Nakamori, Masao; and Ohzeki, Yoshiyuki, to Copal Company Limited. PG yoke position detecting apparatus. 4,646,194, 2-24-87, Cl. 360-137.000.

Nakamura, Shigekazu, to Copal Company Limited. Apparatus using inclined sensor for detecting relative displacement. 4,649,342, 3-10-87, Cl. 324-208.000.

Nakamura, Shigeki, to NEC Corporation. Failure notice system in a data transmission system. 4,660,201, 4-21-87, Cl. 371-61.000.

Nakamura, Shigeki; Ohnishi, Makoto; and Takahashi, Yasufumi, to Hitachi, Ltd. Digital modulation apparatus. 4,680,556, 7-14-87, Cl. 332-16.00R.

Nakamura, Shigeru: *See*—
Kaku, Toshimitsu; Tsunoda, Yoshito; Maeda, Takeshi; and Nakamura, Shigeru, 4,663,751, Cl. 369-46.000.

Nakamura, Shin; Hikino, Keiji; Kaji, Shinichi; and Komatsu, Tsunetoshi, to Hitachi, Ltd. Lint and raveling collector for clothes dryer. 4,638,573, 1-27-87, Cl. 34-82.000.

Nakamura, Shin: *See*—
Hikino, Keiji; Kaji, Shinichi; and Nakamura, Shin, 4,649,654, Cl. 34-30.000.

Nakamura, Shinichi; Tomoda, Hideo; and Kochi, Nobuo, to Tokyo Kogaku Kikai Kabushiki Kaisha. Automatic marking device for lensmeter. 4,676,004, 6-30-87, Cl. 33-507.000.

Nakamura, Shinichi; and Obbayashi, Kenji, to Konishiroku Photo Industry Co., Ltd. Silver halide color photographic material. 4,713,317, 12-15-87, Cl. 430-551.000.

Nakamura, Shinichi: *See*—
Katayama, Yoshitaka; Nabeshima, Daiki; and Nakamura, Shinichi, 4,716,558, Cl. 369-33.000.
Komiya, Yutaka; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Mori, Toshihiko, 4,647,188, Cl. 355-55.000.
Komiya, Yutaka; Tomosada, Masahiro; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Adachi, Hideki, 4,697,916, Cl. 355-14.00E.
Matsumoto, Junichi; Miyamoto, Teruyuki; Uno, Hitoshi; and Nakamura, Shinichi, 4,649,144, Cl. 514-300.000.
Miyata, Masanori; Komiya, Yutaka; Nakamura, Shinichi; Hirose, Masayuki; Adachi, Hideki; and Tomosada, Masahiro, 4,641,954, Cl. 355-14.00R.
Nakayama, Tomobumi; Mori, Toshihiko; Hirose, Masayuki; Obbuchi, Toru; Miyata, Masanori; Nakamura, Shinichi; and Honjo, Takeshi, 4,712,908, Cl. 355-14.05H.
Yamaguchi, Takashi; Nakamura, Shinichi; and Oshima, Takafumi, 4,700,103, Cl. 313-141.000.

Nakamura, Shinya; Kubo, Seitoku; and Taga, Yutaka, to Toyota Jidosha Kabushiki Kaisha. Control system and method for controlling output type hydraulic fluid pump of automatic transmission providing increased pump output pressure with increase in engine load. 4,693,081, 9-15-87, Cl. 60-448.000.

Nakamura, Shinya; Kubo, Seitoku; and Taga, Yutaka, to Toyota Jidosha Kabushiki Kaisha. Control system and method for controllable output type hydraulic fluid pump of automatic transmission providing decreased pump output in association with the engine starting condition. 4,702,083, 10-27-87, Cl. 60-721.000.

Nakamura, Shinya: *See*—
Fujiura, Kaiya; Hayakawa, Yoichi; Taga, Yutaka; and Nakamura, Shinya, 4,663,992, Cl. 74-869.000.

Hosono, Chihiro; Hayakawa, Yoichi; Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,673,072, Cl. 192-3.570.

Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,644,826, Cl. 74-866.000.

Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,648,289, Cl. 74-866.000.

Miki, Nobuaki; Nakamura, Shinya; and Shibata, Kazuhiko, 4,662,249, Cl. 74-869.000.

Nakamura, Shiochiro; and Kable, Robert G., to Scriptel Corporation. Electrographic apparatus. 4,649,232, 3-10-87, Cl. 178-18.000.

Nakamura, Shiro: *See*—
Sakurai, Mikio; Nakamura, Shiro; Igarashi, Takao; and Yamauchi, Koki, 4,656,000, Cl. 376-352.000.

Nakamura, Shizuo, to Kawamura Cycle Co., Ltd. Bicycle rear derailleur. 4,637,808, 1-20-87, Cl. 474-80.000.

Nakamura, Shizuo; Inoue, Makoto; and Tsuda, Yoshiaki, to Otsuka Pharmaceutical Factory, Inc. Proline derivatives. 4,642,355, 2-10-87, Cl. 548-533.000.

Nakamura, Shogo: *See*—
Nakatani, Tomofumi; and Nakamura, Shogo, 4,634,966, Cl. 324-77.00B.

Nakamura, Shoichi: *See*—
Suzuki, Tadao; Nakamura, Shoichi; Nishioka, Hisao; and Ohkubo, Yutaka, 4,707,818, Cl. 369-59.000.

Nakamura, Shoichiro; and Kable, Robert G., to Scriptel Corporation. Electrographic system and method. 4,650,926, 3-17-87, Cl. 178-18.000.

Nakamura, Shoji: *See*—
Terajima, Yushi; Tokuda, Katsuhiko; Nakamura, Shoji; Uehara, Keiichi; Ichikawa, Hideyuki; and Iwakami, Shinobu, 4,663,080, Cl. 252-522.00R.

Nakamura, Shuji, to Tokyo Aircraft Instrument Co., Ltd. Turn-and-bank indicator which displays the total angle or total time of a turn. 4,682,171, 7-21-87, Cl. 340-975.000.

Nakamura, Shuji: *See*—
Ehara, Shunji; Nakamura, Shuji; and Akama, Masato, 4,687,832, Cl. 528-97.000.

Nakamura, Shunichi, to Mitsubishi Denki Kabushiki Kaisha. Printer used for a television receiver. 4,635,132, 1-6-87, Cl. 358-296.000.

Nakamura, Shunichi, to Aisin Seiki Kabushiki Kaisha. Watertight window assembly. 4,635,398, 1-13-87, Cl. 49-413.000.

Nakamura, Shunichi: *See*—
Okamoto, Yuji; and Nakamura, Shunichi, 4,649,669, Cl. 49-489.000.

Nakamura, Shunji; Kan, Fumitaka; Egami, Hidemi; Hosoi, Atsushi; Tajima, Hatsuo; and Nakahata, Kimio, to Canon Kabushiki Kaisha. Developing apparatus. 4,638,760, 1-27-87, Cl. 118-658.000.

Nakamura, Shunji: *See*—
Egami, Hidemi; Kan, Fumitaka; Hosoi, Atsushi; Tajima, Hatsuo; Nakamura, Shunji; and Nakahata, Kimio, 4,660,958, Cl. 355-3.0DD.

Hosoi, Atsushi; Kan, Fumitaka; Egami, Hidemi; Tajima, Hatsuo; Nakamura, Shunji; and Nakahata, Kimio, 4,637,706, Cl. 355-3.0DD.

Nakamura, Steve: *See*—
Roberts, Auston K.; Trainer, William E.; Nakamura, Steve; Duffin, Leon C.; and Biederman, David L., 4,686,094, Cl. 423-322.000.

Nakamura, Tadashi; and Hibino, Ikuo, to Alps Electric Co., Ltd. Thermal printer erasure method. 4,651,162, 3-17-87, Cl. 346-1.100.

Nakamura, Tadashi: *See*—
Kikuchi, Noboru; Nakamura, Tadashi; and Maruyama, Takahito, 4,657,417, Cl. 400-185.000.

Okada, Yoshio; Nakamura, Tadashi; and Ohhira, Youichi, 4,699,658, Cl. 106-21.000.

Okada, Yoshio; Nakamura, Tadashi; and Ohhira, Youichi, 4,699,659, Cl. 106-21.000.

Nakamura, Tadasi: *See*—
Osugi, Minoru; Takagawa, Makoto; Nakamura, Tadasi; Kojima, Takashi; and Tsuji, Kinya, 4,666,945, Cl. 518-713.000.

Nakamura, Taizo, to Mitutoyo Mfg., Co., Ltd. Optical type measuring scanner. 4,692,629, 9-8-87, Cl. 250-560.000.

Nakamura, Taizo: *See*—
Aoyama, Tsutomu; Nakamura, Taizo; Terao, Naoyosi; and Shinonaga, Hirofuko, 4,639,098, Cl. 350-514.000.

Nakamura, Takahiro: *See*—
Takabayashi, Hitoshi; and Nakamura, Takahiro, 4,660,980, Cl. 356-357.000.

Nakamura, Takashi, to Fuji Photo Film Co., Ltd. Phosphor and radiation image storage panel containing the same. 4,661,419, 4-28-87, Cl. 428-691.000.

Nakamura, Takashi; Hatanaka, Katsunori; Omata, Satoshi; and Osada, Yoshiyuki, to Canon Kabushiki Kaisha. Method for driving liquid-crystal panel. 4,675,667, 6-23-87, Cl. 340-784.000.

Nakamura, Takashi; and Takahashi, Kenji, to Fuji Photo Film Co., Ltd. Phosphor, radiation image recording and reproducing method and radiation image storage panel. 4,698,508, 10-6-87, Cl. 250-484.100.

Nakamura, Takashi: *See*—
Hayashi, Seiichi; Nakamura, Takashi; and Tanabe, Hisayuki, 4,710,782, Cl. 346-76.00R.

Kumatani, Hiroshi; and Nakamura, Takashi, 4,689,509, Cl. 310-77.000.

Ozawa, Kunitaka; Nakamura, Takashi; Katayama, Akira; Hatanaka, Katsunori; Mori, Tetsuzo; and Takaoka, Makoto, 4,716,421, Cl. 346-140.00R.

Yamaji, Kazunori; Nakamura, Takashi; and Kihara, Taku, 4,677,464, Cl. 358-41.000.

Yamauchi, Satomi; and Nakamura, Takashi, 4,704,655, Cl. 361-159.000.

Nakamura, Takayoshi, to Kabushiki Kaisha Kito. Electric chain block. 4,690,379, 9-1-87, Cl. 254-347.000.

Nakamura, Takeaki: *See*—
Shishido, Yoshio; Takahashi, Susumu; Matsuo, Kazumasa; Miyazaki, Atsushi; Nishigaki, Shinichi; Kato, Shinichi; Nakamura, Takeaki; and Ishikawa, Akibumi, 4,711,999, Cl. 250-204.000.

Nakamura, Takehiro; Sato, Susumu; Hattori, Tadashi; Nabeta, Teiichi; and Kato, Minoru, to Nippondenso Co., Ltd.; and Nippon Soken, Inc. Photo-electric smoke detector with light shielding electrode. 4,678,921, 7-7-87, Cl. 250-574.000.

Nakamura, Takeichi. Axial gear train having syncline face cyclic gearing. 4,702,126, 10-27-87, Cl. 74-800.000.

Nakamura, Takeshi; Matsumoto, Ikuo; and Ando, Kenji, to Murata Manufacturing Co., Ltd. Piezoelectric vibrating element. 4,649,310, 3-10-87, Cl. 310-321.000.

Nakamura, Takeshi; Ando, Kenji; and Matsumoto, Ikuo, to Murata Manufacturing Co., Ltd. Piezoelectric vibrator and manufacturing method thereof. 4,651,042, 3-17-87, Cl. 310-321.000.

Nakamura, Takeshi; and Matsumoto, Ikuo, to Murata Manufacturing Co., Ltd. Piezoelectric vibrator and method of adjusting vibrating frequency thereof. 4,658,173, 4-14-87, Cl. 310-321.000.

Nakamura, Takeshi; and Ujihara, Hiroshi, to Ohi Seisakusho Co., Ltd. Automotive door window pane guide device. 4,663,886, 5-12-87, Cl. 49-360.000.

Nakamura, Takeshi; Nishiyama, Hiroshi; and Matsumoto, Ikuo, to Murata Manufacturing Co., Ltd. Piezoelectric vibrator. 4,697,119, 9-29-87, Cl. 310-322.000.

Nakamura, Takeshi, to Murata Manufacturing Co., Ltd. Method and mask for forming thin film. 4,704,306, 11-3-87, Cl. 427-100.000.

Nakamura, Takeshi: *See*—
Moriya, Masaichi; Maekawa, Junichi; and Nakamura, Takeshi, 4,648,206, Cl. 49-352.000.

Nakamura, Taku; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat developable light-sensitive material. 4,649,104, 3-10-87, Cl. 430-617.000.

Nakamura, Taku, to Fuji Photo Film Co., Ltd. Silver halide photographic material containing a polymer with a photographically useful group which is rendered non-diffusive by cross-linking. 4,661,272, 5-5-87, Cl. 430-542.000.

Nakamura, Taku: *See*—
Aono, Toshiaki; Nakamura, Koichi; Shibata, Takeshi; and Nakamura, Taku, 4,636,455, Cl. 430-203.000.

Yamada, Sumito; Nakamura, Taku; Suga, Shuzo; and Kawamoto, Hiroshi, 4,647,528, Cl. 430-567.000.

Nakamura, Takuji; Otsuki, Toshinori; Nagasawa, Takeshi; and Ikemoto, Yoshihiro, to Matsushita Electric Industrial Co., Ltd. Facsimile apparatus. 4,667,252, 5-19-87, Cl. 358-286.000.

Nakamura, Takuji: *See*—
Ikemoto, Yoshihiro; Kataoka, Jiro; Otsuki, Toshinori; and Nakamura, Takuji, 4,701,810, Cl. 358-296.000.

Nakamura, Takumi: *See*—
Akihama, Shigeyuki; Saito, Makoto; Kawamoto, Akio; Banno, Tadashi; Umeki, Yoshihiko; and Nakamura, Takumi, 4,700,510, Cl. 52-309.160.

Nakamura, Teiji; Nishikawa, Eiichiro; and Koyama, Takeo, to Toa Nenryo Kogyo Kabushiki Kaisha. Catalyst, its method of preparation and process for its use in the hydrogenation of diolefins. 4,691,070, 9-1-87, Cl. 585-273.000.

Nakamura, Teruo: *See*—
Ishizuka, Yutaka; and Nakamura, Teruo, 4,636,153, Cl. 418-80.000.

Nakamura, Teruya: *See*—
Ueppu, Teruhiko; Takesako, Kazutoh; Nakamura, Teruya; and Obayashi, Akira, 4,703,128, Cl. 549-270.000.

Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Iinuma, Hironobu; Ikeda, Daishiro; Nakamura, Teruya; and Fujii, Akio, 4,658,058, Cl. 564-159.000.

Umezawa, Hamao; Suzuki, Shintaro; Ohkuma, Takaaki; Sato, Fumihiro; and Nakamura, Teruya, 4,710,517, Cl. 514-616.000.

Nakamura, Tetsuo: *See*—
Fukuyoshi, Minoru; Furuto, Takashi; and Nakamura, Tetsuo, 4,701,704, Cl. 324-207.000.

Nakamura, Tetsuro: *See*—
Matsumoto, Kazutoshi; Nakamura, Tetsuro; Hyuga, Takehiro; and Ichimura, Hiroshi, 4,692,421, Cl. 501-136.000.

Shimura, Katsumasa; and Nakamura, Tetsuro, 4,643,394, Cl. 251-129.080.

Nakamura, Tokio. Thermoelectric thermometer of radio transmission type. 4,716,411, 12-29-87, Cl. 340-870.170.

Nakamura, Tooru; and Higashino, Shigenori, to Mitsubishi Denki Kabushiki Kaisha. Abnormal state detecting circuit of inverter. 4,636,929, 1-13-87, Cl. 363-56.000.

Nakamura, Tooru: *See*—
Honjo, Kenji; and Nakamura, Tooru, 4,667,116, Cl. 307-64.000.

Oshikiri, Keiichi; and Nakamura, Tooru, 4,678,949, Cl. 307-527.000.

Nakamura, Toru; Konishi, Satoshi; Yamada, Seiji; Tatsuoka, Masahiko; and Kubo, Michihiro, to Ishida Scales Manufacturing Company, Ltd. Automatic weighing system. 4,708,215, 11-24-87, Cl. 177-25.000.

Nakamura, Toru: *See*—
Asaeda, Takeaki; Nakamura, Toru; and Yutani, Takashi, 4,639,850, Cl. 363-58.000.

Nakamura, Toshiaki: *See*—
Kaieda, Osamu; Awashima, Masaru; Okitaka, Isao; and Nakamura, Toshiaki, 4,684,734, Cl. 546-345.000.

Kaneda, Osamu; Hirota, Koichi; Itoh, Hideki; Awashima, Masaru; and Nakamura, Toshiaki, 4,689,179, Cl. 260-384.000.

Nakamura, Toshinobu, to Shinagawa Shoko Co., Ltd. Insulating cover for terminal. 4,660,914, 4-28-87, Cl. 339-59.00R.

Nakamura, Toshinobu, to Shinagawa Shoko Co., Ltd. Fixing component. 4,681,288, 7-21-87, Cl. 248-71.000.

Nakamura, Toshio; Tamura, Tadashi; Kimura, Naomi; and Urata, Susumu, to Matsushita Electric Industrial Co., Ltd. Electric coffee maker. 4,706,555, 11-17-87, Cl. 99-283.000.

Nakamura, Toshio: *See*—
Muraoka, Masami; Nakamura, Toshio; Sugie, Akihiko; Ono, Kenichi; and Yamamoto, Michihiro, 4,680,307, Cl. 514-460.000.
Sasaki, Yutaka; Kiyomiya, Yutaka; and Nakamura, Toshio, 4,709,070, Cl. 558-322.000.
Sasaki, Yutaka; Kiyomiya, Yutaka; and Nakamura, Toshio, 4,709,071, Cl. 558-322.000.

Nakamura, Toshiro: Hallux valgus brace. 4,644,940, 2-24-87, Cl. 128-81.00R.

Nakamura, Toshiyuki; Sugihara, Masahiro; Inaba, Tsutomu; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, to Mitsubishi Denki Kabushiki Kaisha. Scroll-type apparatus with gap adjustment means. 4,655,697, 4-7-87, Cl. 418-55.000.

Nakamura, Toshiyuki: *See*—
Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,681, Cl. 418-55.000.
Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,682, Cl. 418-55.000.
Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,683, Cl. 418-55.000.
Kazami, Kazuyuki; and Nakamura, Toshiyuki, 4,670,693, Cl. 318-112.000.
Kazami, Kazuyuki; Nakamura, Toshiyuki; and Wakabayashi, Hiroshi, 4,714,938, Cl. 354-173.100.

Nakamura, Tsuneaki; Kiyoshige, Tatsuo; and Sasaki, Shuji, to Lion Corporation. Composition for oral application. 4,714,612, 12-22-87, Cl. 424-85.000.

Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, to Sharp Kabushiki Kaisha. Method of production of thin film magnetic head and magnetic head. 4,677,036, 6-30-87, Cl. 428-694.000.

Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, to Sharp Kabushiki Kaisha. Production of thin film magnetic head. 4,702,794, 10-27-87, Cl. 156-643.000.

Nakamura, Tsutomu; and Imai, Kiyoshi, to Shin-Etsu Chemical Co., Ltd. Vibration-damping rubber composition. 4,678,828, 7-7-87, Cl. 524-265.000.

Nakamura, Tsutomu; and Matsumoto, Kazuya, to Olympus Optical Co., Ltd. Solid state image sensor having means to reset and clear static induction transistor photoelements. 4,684,992, 8-4-87, Cl. 358-213.120.

Nakamura, Tsutomu: *See*—
Matsumoto, Kazuya; and Nakamura, Tsutomu, 4,677,453, Cl. 357-30.000.

Nakamura, Tutomu; Shiraishi, Masaru; and Nawaki, Masaru, to Sharp Kabushiki Kaisha. Semiconductor photodetector element. 4,670,765, 6-2-87, Cl. 357-30.000.

Nakamura, Usao; Takao, Makoto; Ueno, Etsuko; and Kawaguchi, Kichitaro, to Hamari Chemicals Ltd. Biochemical method for preparation of optically active carnitine *Enterobacter* sp. Y-239-b. 4,636,471, 1-13-87, Cl. 435-280.000.

Nakamura, Yahiko: *See*—
Watanabe, Teruoki; Nakamura, Yahiko; Hidaka, Akio; Kobayashi, Shunji; and Nozaki, Hiroyoshi, 4,659,628, Cl. 428-457.000.

Nakamura, Yasuhide; and Yamamura, Shigeyuki, to Sharp Kabushiki Kaisha. Tax or exemption selecting electronic cash register. 4,635,196, 1-6-87, Cl. 364-405.000.

Nakamura, Yasuhide: *See*—
Haga, Minoru; Kaneko, Shinobu; Ikawa, Shoji; Murayama, Kimmasa; Nakamura, Yasuhide; and Saito, Mitsuo, 4,691,551, Cl. 72-88.000.

Nakamura, Yasunari: *See*—
Morisawa, Kunio; and Nakamura, Yasunari, 4,699,236, Cl. 180-249.000.
Taga, Yutaka; Kubo, Seitoku; Kashihara, Yuji; Morisawa, Kunio; Takada, Mitsuru; and Nakamura, Yasunari, 4,702,341, Cl. 180-249.000.

Nakamura, Yasunori: *See*—
Ueno, Ryuzo; Sakota, Kazuyuki; and Nakamura, Yasunori, 4,684,712, Cl. 528-190.000.

Nakamura, Yasuo, to Canon Kabushiki Kaisha. Token exchange data transmission system having system configuration discrimination. 4,637,013, 1-13-87, Cl. 370-85.000.

Nakamura, Yasuo: *See*—
Kawada, Tsutomu; and Nakamura, Yasuo, 4,672,734, Cl. 29-517.000.
Miyazaki, Haruhiko; Hirai, Koichi; Uda, Taizo; Nakamura, Yasuo; Ikezawa, Harumi; and Tsuchie, Takanori, 4,647,551, Cl. 502-200.000.

Nakamura, Yoichi; Yamamoto, Akio; Kurita, Goro; Tomuro, Jinichi; and Kuge, Toshio, to Hitachi, Ltd. Method and apparatus for upgrading low rank coal. 4,668,244, 5-26-87, Cl. 44-1.00F.

Nakamura, Yoichi: *See*—
Funahashi, Kazutomi; Yoshii, Koichi; Nakamura, Yoichi; Oshikiri, Tatsumi; and Kobayashi, Hajime, 4,668,298, Cl. 106-287.130.

Nakamura, Yoshiaki, to Tokyo Shibaura Denki Kabushiki Kaisha. Clarifying apparatus. 4,642,186, 2-10-87, Cl. 210-257.100.

Nakamura, Yoshihiro: *See*—
Kumazawa, Takahiro; Nakamura, Yoshihiro; and Yamaguchi, Yoshimitsu, 4,682,694, Cl. 209-559.000.

Nakamura, Yoshikatsu: *See*—
Ooi, Katsunori; Hidai, Yutaka; Kurosawa, Yoshiaki; and Nakamura, Yoshikatsu, 4,685,142, Cl. 382-13.000.

Nakamura, Yoshinori: *See*—
Aoki, Daiichi; Nakamura, Yoshinori; Orimoto, Hiroyuki; and Machida, Kazumi, 4,680,208, Cl. 428-35.000.

Nakamura, Yoshio; Sugiyama, Susumo; Nishizawa, Jun-ichi; and Ohmi, Tadahiro, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Semiconductor apparatus. 4,692,789, 9-8-87, Cl. 357-74.000.

Nakamura, Yoshio: *See*—
Nagasawa, Takeshi; Nakamura, Yoshio; and Kuroiwa, Katsumasa, 4,650,753, Cl. 435-23.000.
Sugiyama, Susumu; Nakamura, Yoshio; Ohno, Harunobu; and Kamiya, Tokimasa, 4,672,417, Cl. 357-67.000.

Nakamura, Yoshisada: *See*—
Ichijima, Seiji; Ono, Mitsunori; Itoh, Isamu; Mihayashi, Keiji; Tamoto, Koji; and Nakamura, Yoshisada, 4,711,837, Cl. 430-548.000.

Nakamura, Yoshitaka: *See*—
Morita, Takeshi; Okuda, Takio; Machida, Kazumichi; Sato, Yoshio; and Nakamura, Yoshitaka, 4,700,041, Cl. 219-96.000.

Nakamura, Yoshiyuki; Kato, Tetsuro; and Ebihara, Norio, to Sony Corporation. Skip field color recording apparatus. 4,641,202, 2-3-87, Cl. 358-313.000.

Nakamura, Yoshiyuki: *See*—
Makabe, Kazunori; and Nakamura, Yoshiyuki, 4,671,149, Cl. 83-30.000.

Nakamura, Youichi: *See*—
Inoue, Takao; Matsuo, Takahiro; and Nakamura, Youichi, 4,643,911, Cl. 427-54.100.

Nakamura, Yozo: *See*—
Takao, Kunihiko; Kawashima, Kenichi; Nakamura, Yozo; and Hayase, Isao, 4,636,148, Cl. 417-286.000.
Takao, Kunihiko; Kawashima, Kenichi; and Nakamura, Yozo, 4,653,991, Cl. 418-82.000.
Takao, Kunihiko; Kawashima, Kenichi; Nakamura, Yozo; and Kishi, Atsuo, 4,702,684, Cl. 418-259.000.

Nakamura, Yuichi: *See*—
Sugawara, Masayoshi; Nakamura, Yuichi; and Matsui, Akira, 4,674,357, Cl. 74-590.000.
Sugawara, Masayoshi; Nakamura, Yuichi; and Matsui, Akira, 4,697,466, Cl. 74-27.000.

Nakamura, Yuji: *See*—
Ueno, Shigeto; Ohnishi, Masanori; Nakamura, Yuji; and Tanaka, Shinichi, 4,639,814, Cl. 360-130.100.

Nakamura, Yukinobu, to Honda Giken Kogyo Kabushiki Kaisha. Current location indication apparatus for use in an automotive vehicle. 4,660,037, 4-21-87, Cl. 340-990.000.

Nakamura, Yukio. Method of producing propeller shafts for jet-propelled small-sized boats. 4,711,008, 12-8-87, Cl. 29-156.80P.

Nakamura, Yukitugu; Masuda, Takashi; and Sekiguchi, Kyoji, to Canon Kabushiki Kaisha. Cornea shape measuring method and apparatus. 4,660,946, 4-28-87, Cl. 351-212.000.

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Masuda, Takashi; Nakamura, Yukitugu; and Sekiguchi, Kyoji, 4,710,003, Cl. 351-212.000.

Nakamura, Yusui: *See*—
Nakajima, Kiyoharu; Ito, Taisuke; and Nakamura, Yusui, 4,667,113, Cl. 250-561.000.

Nakamura, Yutaka: *See*—
Ota, Toyokazu; Nakamura, Yutaka; Ikeda, Yutaka; Kataoka, Shunzi; and Ito, Yoshinobu, 4,639,291, Cl. 162-207.000.
Ota, Toyokazu; and Nakamura, Yutaka, 4,639,292, Cl. 162-375.000.

Nakamura, Zenzo: *See*—
Uchiyama, Takashi; Suzuki, Ryoichi; and Nakamura, Zenzo, 4,669,850, Cl. 354-416.000.

Nakanaga, Ryusuke, to House Food Industrial Company, Limited. Container for use in heating by microwave oven. 4,661,672, 4-28-87, Cl. 219-10.55E.

Nakanaga, Ryusuke: *See*—
Sugisawa, Ko; Yamamoto, Masanori; and Nakanaga, Ryusuke, 4,703,149, Cl. 219-10.55E.

Nakane, Hisashi: *See*—
Hashimoto, Akira; Nishimura, Toshihiro; Nakayama, Muneo; Nakane, Hisashi; and Toda, Shozo, 4,694,040, Cl. 524-765.000.
Ishii, Wataru; Miyazawa, Shozo; Tsuchiya, Shinji; Nakane, Hisashi; and Yokota, Akira, 4,702,992, Cl. 430-272.000.

Nakane, Kazuhiro: *See*—
Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, 4,636,152, Cl. 418-54.000.
Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, 4,676,726, Cl. 418-54.000.
Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, 4,704,076, Cl. 418-91.000.

Nakane, Koji: *See*—
Hattori, Yoshiyuki; Matsui, Kazuma; Imani, Yuichi; Kuno, Akira; Nagata, Tetsuya; Nakane, Koji; and Nomura, Ken, 4,715,663, Cl. 303-110.000.

Nakane, Masami, to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane α-substituted ketone prostaglandin analogs useful in the treatment of thrombotic disease. 4,663,012, 1-20-87, Cl. 514-469.000.

Nakane, Masami, to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane substituted keto-amide prostaglandin analogs useful in the treatment of thrombotic disease. 4,639,461, 1-27-87, Cl. 514-382.000.

Nakane, Masami, to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane substituted thiosmide-amide prostaglandin analogs. 4,647,573, 3-3-87, Cl. 514-382.000.

Nakane, Masami, to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane substituted amido-carbamate prostaglandin analogs. 4,652,576, 3-24-87, Cl. 514-382.000.

Nakane, Masami; and Hall, Steven E., to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane substituted amide prostaglandin analogs. 4,652,578, 3-24-87, Cl. 514-382.000.

Nakane, Masami; and Reid, Joyce, to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane substituted amide-thioamide prostaglandin analogs. 4,654,355, 3-31-87, Cl. 514-382.000.

Nakane, Masami; and Reid, Joyce, to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane substituted diacid diamide prostaglandin analogs. 4,654,356, 3-31-87, Cl. 514-382.000.

Nakane, Masami, to E. R. Squibb & Sons, Inc. 7-oxabicycloheptane substituted sulfonamide prostaglandin analogs. 4,654,357, 3-31-87, Cl. 514-382.000.

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Nakane, Masami: *See*—
Das, Jagabandhu; and Nakane, Masami, 4,663,337, C.
Hall, Steven E.; and Nakane, Masami, 4,656,185, Cl. 514-382.000.

Nakane, Mototaka; and Tanaka, Shizuo, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Automatic wear compensation mechanism. 4,640,400, 2-3-87, Cl. 192-70.250.

Nakane, Ryuji: *See*—
Kamo, Kazuhiko, Suwahara, Hiroshi; and Nakane, Ryuji, 4,636,610, Cl. 219-124.020.

Nakanishi, Akio, to Fujitsu Limited. Reversal image development type electrophotographic printing system. 4,714,942, 12-22-87, Cl. 355-14.00R.

Nakanishi, Akira: *See*—
Morimaka, Hideo; Nakanishi, Akira; and Nonaka, Yuji, 4,668,831, Cl. 568-779.000.

Nakanishi, Haruo; Sakaki, Hirokazu; Yamazaki, Toru; and Okishi, Yoshio, to Fuji Photo Film Co., Ltd. Process for producing an aluminum support for a lithographic printing plate. 4,678,551, 7-7-87, Cl. 204-129.750.

Nakanishi, Haruo; Ohba, Hisao; and Sakaki, Hirokazu, to Fuji Photo Film Co., Ltd. Lithographic support and process of preparing the same. 4,686,021, 8-11-87, Cl. 204-129.750.

Nakanishi, Hidemi: *See*—
Kohyama, Katsuhisa; Miyamoto, Masaaki; Nakanishi, Hidemi; and Koga, Norimichi, 4,684,713, Cl. 528-315.000.

Nakanishi, Hiroshi: *See*—
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Tamura, Naoyuki; Nakanishi, Hiroshi; Yagi, Tetsuya; and Kuroiwa, Shintaro, 4,664,829, Cl. 252-52.00R.
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Yagi, Tetsuya; and Nakanishi, Hiroshi, 4,711,732, Cl. 252-28.000.

Nakanishi, Katsumi: *See*—
Iwai, Mieko; Tominaga, Yoshio; and Nakanishi, Katsumi, 4,665,029, Cl. 435-198.000.
Yasuda, Keiji; Oda, Yukihisa; Hamajima, Shigemitsu; Ishii, Masami; Nakanishi, Katsumi; Tsuzuki, Takayoshi; and Tsuda, Jyou, 4,714,804, Cl. 200-11.0DA.

Nakanishi, Kazumi: *See*—
Kawaguchi, Toshiyuki; Katsukawa, Hiroyuki; Nakanishi, Kazumi; and Tanaka, Naoki, 4,648,131, Cl. 455-606.000.

Nakanishi, Kazuo: *See*—
Matsui, Isamu; Kimura, Hidetoshi; and Nakanishi, Kazuo, 4,683,713, Cl. 57-281.000.

Nakanishi, Keiichirou; Yamada, Minoru; Masaki, Akira; Imai, Kuninori; and Chiba, Katuaki, to Hitachi, Ltd. Cooling module for integrated circuit chips. 4,644,385, 2-17-87, Cl. 357-82.000.

Nakanishi, Kenchirou: *See*—
Yamada, Minoru; Usui, Mitsuru; Masaki, Akira; Nakanishi, Kenchirou; and Tokuda, Masahide, 4,686,606, Cl. 361-385.000.
Yamada, Minoru; Wajima, Motoyo; Masaki, Akira; Takahashi, Akio; Nakanishi, Kenchirou; and Sugawara, Katuo, 4,710,854, Cl. 361-414.000.

Nakanishi, Kiyoshi: *See*—
Kato, Kenji; Inoue, Tokuta; Nakanishi, Kiyoshi; and Matsushita, Soichi, 4,682,577, Cl. 123-492.000.
Kato, Kenji; Matsushita, Soichi; and Nakanishi, Kiyoshi, 4,694,794, Cl. 123-306.000.
Oishi, Kiyohiko; Nakanishi, Kiyoshi; Kayanuma, Nobuaki; Kawai, Taiyo; Nakagawa, Norihisa; and Nomura, Hiroshi, 4,667,636, Cl. 123-432.000.

Nakanishi, Koichi; Onaka, Toshio; and Inoue, Takashi, to Kirin Beer Kabushiki Kaisha. Production of alcoholic beverages. 4,698,224, 10-6-87, Cl. 426-11.000.

Nakanishi, Masae: *See*—
Komatsu, Michiyasu; Miyano, Tadashi; Ando, Akio; Nakanishi, Masae; and Fujimoto, Yuaji, 4,671,912, Cl. 264-63.000.
Washizuka, Syoichi; Watanabe, Masayuki; Yashiro, Sadao; and Nakanishi, Masae, 4,686,091, Cl. 422-249.000.

Nakanishi, Michio: *See*—
Kawakami, Michio; Araki, Yoshima; Murakami, Kenkichi; Okawa, Hidetoshi; Nakanishi, Michio; and Hosotani, Makoto, 4,659,786, Cl. 525-415.000.

Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; Nomura, Yoshihisa; Noguchi, Noboru; and Shibata, Hirochika, to Toyota Jidosha Kabushiki Kaisha; and Aisin Seiki Kabushiki Kaisha. Solenoid-operated hydraulic control device for anti-skid brake system. 4,668,024, 5-26-87, Cl. 303-119.000.

Nakanishi, Nobuyasu; and Nomura, Yoshihisa, to Toyota Jidosha Kabushiki Kaisha. Anti-skid pressure control device in hydraulic braking system. 4,703,979, 11-3-87, Cl. 303-116.000.

Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; and Noguchi, Noboru, to Toyota Jidosha Kabushiki Kaisha. Hydraulic anti-skid brake system with device for improvement in straight-line running stability of vehicle. 4,715,664, 12-29-87, Cl. 303-111.000.

Nakanishi, Nobuyasu: *See*—
Adachi, Yoshiharu; Nishimura, Takumi; Saito, Tadao; Shibata, Hirochika; Nakanishi, Nobuyasu; Shirai, Akira; and Noguchi, Noboru, 4,636,010, Cl. 303-115.000.
Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; Yamanaka, Toshihiko; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,655,509, Cl. 303-10.000.
Inden, Masahiro; Kuwana, Kazutaka; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,679,589, Cl. 137-596.170.
Nishimura, Takumi; Saitoh, Tadao; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,700,991, Cl. 303-113.000.
Otsuki, Hiromi; Numata, Kenichi; Matsuura, Ryoichi; Nomura, Yoshihisa; Nakanishi, Nobuyasu; and Oka, Hiroyuki, 4,715,667, Cl. 303-119.000.

Nakanishi, Sadayuki; and Hayama, Kenichi, to Kabushiki Kaisha Kobe Seiko Sho. Sealing mechanism for a ball valve. 4,673,164, 6-16-87, Cl. 251-174.000.

Nakanishi, Shigeo; Calco, Frank S.; and Scarpelli, August R., to United States of America, National Aeronautics and Space Administration. Precision tunable resonant microwave cavity. 4,642,523, 2-10-87, Cl. 315-111.810.

Nakanishi, Susumu; and Nagakura, Isao, to Pfizer Inc. 2H-1,2-benzothiazine derivatives. 4,694,080, 9-15-87, Cl. 544-49.000.

Nakanishi, Syoji: *See*—
Nomura, Shigeo; and Nakanishi, Syoji, 4,702,007, Cl. 30-423.000.

Nakanishi, Takao, to Sharp Kabushiki Kaisha. Hot air circulating oven range using shape memory alloy. 4,635,610, 1-13-87, Cl. 126-21.00A.

Nakanishi, Takao, to Sharp Kabushiki Kaisha. Damper drive in microwave heating appliance. 4,705,928, 11-10-87, Cl. 219-10.55B.

Nakanishi, Takashi, to Kao Corporation. Tampon-forming device. 4,685,178, 8-11-87, Cl. 28-118.000.

Nakanishi, Takeshi: *See*—
Nishioka, Hiroyuki; and Nakanishi, Takeshi, 4,658,413, Cl. 378-99.000.

Nakanishi, Tatsuo: *See*—
Nagamoto, Itsushi; Nakanishi, Tatsuo; and Tajima, Ryohei, 4,714,577, Cl. 264-46.600.
Yamazaki, Toshinori; Nakanishi, Tatsuo; Marukawa, Yuji; Takenouchi, Shigeki; and Nomori, Hiroyuki, 4,673,629, Cl. 430-58.000.
Yamazaki, Toshinori; Sakai, Eiichi; Nakanishi, Tatsuo; and Nomori, Hiroyuki, 4,677,044, Cl. 430-58.000.

Nakanishi, Terumo: *See*—
Jost, Manfred; Knoke, Jurgen; Yoshida, Zenji; Ohta, Noburo; and Nakanishi, Terumo, 4,696,850, Cl. 428-197.000.

Nakanishi, Teruyuki: *See*—
Arimitsu, Hiroshi; Hatano, Kiyoshi; Nakanishi, Teruyuki; Yoshimura, Yoshio; Urabe, Masaki; and Honda, Tsurakazu, 4,697,179, Cl. 340-825.720.

Nakanishi, Tohru: *See*—
Ikematsu, Morio; Wada, Tohru; Nakanishi, Tohru; and Ishigami, Nobuo, 4,658,978, Cl. 251-315.000.

Nakanishi, Tomoyuki, to Omron Tateisi Electronics Co. Cash cartridge with ratcheted locking mechanism. 4,662,623, 5-5-87, Cl. 271-150.000.

Nakanishi, Tomoyuki, to Omron Tateisi Electronics Co. Quick acting bank note recovery system. 4,699,373, 10-13-87, Cl. 271-258.000.

Nakanishi, Toru; and Machida, Yozo, to Kyowa Hakko Kogyo Co., Ltd. Pyranose oxidase, method of making and method of use. 4,636,464, 1-13-87, Cl. 435-14.000.

Nakanishi, Toru: *See*—
Yoshimura, Takeshi; Sameshima, Mutsuro; Nakanishi, Toru; and Kato, Shigeo, 4,641,620, Cl. 123-432.000.

Nakanishi, Toshihide; Hirao, Toshihiko; and Sakurai, Minoru, to Kwowa Hakko Kogyo Co., Ltd. Process for producing L-lysine by fermentation. 4,657,860, 4-14-87, Cl. 435-115.000.

Nakanishi, Toshihiro: *See*—
Honda, Tadashi; Imao, Kayoko; Nakatsuka, Nobuo; and Nakanishi, Toshihiro, 4,665,201, Cl. 549-275.000.
Honda, Tadashi; and Nakanishi, Toshihiro, 4,698,423, Cl. 536-24.000.

Nakanishi, Toshikazu: *See*—
Nakamura, Morio; Obayashi, Shigeji; Yamamoto, Takushi; Nakanishi, Toshikazu; Tanaka, Hitoshi; and Sakamoto, Yuji, 4,683,274, Cl. 526-216.000.

Nakanishi, Tsuneo: *See*—
Shin, Shigeo; Takatsu, Tamao; Saito, Teichiro; Kikuchi, Akiyoshi; and Nakanishi, Tsuneo, 4,673,123, Cl. 228-263.130.

Nakanishi, Wataru, to N.I.T. Co., Ltd. Method and apparatus for forming an underground solidification structure. 4,640,649, 2-3-87, Cl. 405-237.000.

kanishi, Yasuhiro; and Sumutani, Toshihiko, to Kabushiki Kaisha Sharp. Memo-print electronic apparatus. 4,654,822, 3-31-87, Cl. 364-900.000.

kanishi, Yasuhiro; and Kawai, Shonchi, to Sharp Kabushiki Kaisha. Combined electronic table preparation and graph drawing apparatus. 4,695,976, 9-22-87, Cl. 364-900.000.

kanishi, Yasuji. *See*—
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.

Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,674,443, Cl. 118-733.000.

Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,676,999, Cl. 427-250.000.

Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.

kanishi, Yasushi; and Taniguchi, Akihiko, to Sharp Kabushiki Kaisha. Control system for a copier. 4,687,320, 8-18-87, Cl. 355-14.00R.

kanishi, Yasushi. *See*—
Taniguchi, Akihiko; Migita, Haruyoshi; Nakanishi, Yasushi; and Kato, Isuro, 4,688,929, Cl. 355-14.00R.

kanishi, Yoshiaki, to Kitamura Iron Works, Ltd. Hinge with tee tubular portion and method of producing the same. 4,658,471, 4-21-87, Cl. 16-224.000.

kanishi, Yoshiro. *See*—
Okada, Hiromi; Nakanishi, Yoshiro; and Nomura, Yoshifumi, 4,646,293, Cl. 370-85.000.

kanishi, Yoshiyuki; Akazawa, Yoji; Kurimoto, Ikuo; Takahashi, Youjirou; Uchida, Shinichi; and Yoshikawa, Hisashi, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Method for preparing pyromellitic acid and/or pyromellitic anhydride. 4,665,200, 5-12-87, Cl. 549-239.000.

kanishi, Youichi. *See*—
Maenishi, Kozo; and Nakanishi, Youichi, 4,647,885, Cl. 335-78.000.
Maenishi, Kozo; and Nakanishi, Youichi, 4,692,728, Cl. 335-192.000.

kanishi, Yuji. *See*—
Kamitani, Yutaka; and Nakanishi, Yuji, 4,666,286, Cl. 355-8.000.
Miyai, Kiyoshi; Shuhei, Uotani; Tsunemine, Toyohiko; Kamitani, Yutaka; and Nakanishi, Yuji, 4,666,281, Cl. 355-3.0SH.

kanishi, Yutaka; Yamada, Toshihiko; Sanada, Yuji; and Kawai, Takashi, to Toyotomi Kogyo Co., Ltd. Ignition system for oil burner. 4,714,426, 12-22-87, Cl. 431-132.000.

kanishi, Yutaka. *See*—
Nakamura, Kazuharu; and Nakanishi, Yutaka, 4,668,179, Cl. 431-121.000.

kaniwa, Yoshiaki. *See*—
Yamaguchi, Fumio; Nakaniwa, Yoshiaki; Masuda, Yoshiaki; Sakurai, Hisayuki; and Nakashima, Wachiro, 4,633,931, Cl. 164-110.000.

kano, Akihiko; Hibino, Takeshi; Takata, Hajime; and Yoshida, Manabu, to Matsushita Electric Industrial Co., Ltd. Solar cell module, 4,705,911, 11-10-87, Cl. 136-251.000.

kano, Akira. *See*—
Kojima, Takao; Nakano, Akira; Matsuura, Toshitaka; and Takami, Akio, 4,688,015, Cl. 338-34.000.
Takami, Akio; Matsuura, Toshitaka; Nakano, Akira; and Kuroki, Yoshiaki, 4,660,407, Cl. 73-23.000.

kano, Akiyoshi. *See*—
Morioka, Tohru; Terasaki, Hidenori; Akasu, Hiroyuki; Nakano, Akiyoshi; and Takase, Kohichi, 4,650,457, Cl. 604-4.000.

kano, Atsushi. *See*—
Fukuda, Yasutaka; Shimizu, Shigeo; and Nakano, Atsushi, 4,698,251, Cl. 428-64.000.

kano, Chikao. *See*—
Hirai, Kazumi; Akiyoshi, Mitsuo; Nakano, Chikao, Watanabe, Kenji; and Kodama, Satoru, 4,673,800, Cl. 219-518.000.

kano, Fumio. *See*—
Nakagawa, Susumu; Ushijima, Ryosuke; Nakano, Fumio; Yamada, Koji; and Mano, Eiichi, 4,677,100, Cl. 514-202.000.
Uematsu, Takao; Komatsuzaki, Shigeki; Nakano, Fumio; and Takamura, Tomoe, 4,657,685, Cl. 252-32.500.

kano, Gregory S. *See*—
Wilger, John F.; Orillo, Stephen, Jr.; and Nakano, Gregory S., 4,682,631, Cl. 138-94.000.

kano, Harumi; and Shinmura, Yoshihito, to Casio Computer Co., Ltd. Computer controlled by voice input. 4,677,569, 6-30-87, Cl. 364-513.500.

kano, Harumi, to Casio Computer Co., Ltd. Identification card including switching means for built-in battery. 4,692,601, 9-8-87, Cl. 235-380.000.

kano, Hideaki; and Ozu, Tadahiro, to Kawasaki Jukogyo Kabushiki Kaisha. Assembly of piston and connecting rod in internal-combustion engine. 4,635,596, 1-13-87, Cl. 123-197.0AB.

kano, Hideaki; and Ozu, Tadahiro, to Kawasaki Jukogyo Kabushiki Kaisha. Liquid-cooled cylinder assembly in internal-combustion engine. 4,640,236, 2-3-87, Cl. 123-41.790.

Nakano, Hidenaru. *See*—
Fujishima, Nobuichi; Nakano, Hidenaru; and Ochi, Shuhei, 4,687,906, Cl. 219-364.000.

Nakano, Hidetaka. *See*—
Egawa, Yoshinori; and Nakano, Hidetaka, 4,688,870, Cl. 439-331.000.
Kosugi, Motoki; and Nakano, Hidetaka, 4,641,904, Cl. 339-99.00R.

Nakano, Hiraku, to Hitachi, Ltd. Method and apparatus for division using interpolation approximation. 4,707,798, 11-17-87, Cl. 364-765.000.

Nakano, Hirofumi. *See*—
Higuchi, Setzun; Oga, Tomonari; Ikeda, Mrsao; and Nakano, Hirofumi, 4,713,301, Cl. 428-628.000.

Nakano, Hiroki. *See*—
Matsushita, Masao; Oku, Kenzo; Nakano, Hiroki; and Okumura, Shin-ichi, 4,709,558, Cl. 62-480.000.

Nakano, Hironobu. *See*—
Otsuka, Yukio; Kawai, Hiroshi; Iida, Kiyomi; and Nakano, Hironobu, 4,671,338, Cl. 164-150.000.

Nakano, Hiroshi. *See*—
Ikeda, Yasunari; Nakano, Hiroshi; and Yuchi, Hirofumi, 4,672,446, Cl. 358-140.000.
Ohta, Tomozo; and Nakano, Hiroshi, 4,654,888, Cl. 455-328.000.
Yoneda, Takao; and Nakano, Hiroshi, 4,694,233, Cl. 318-569.000.

Nakano, Hiroyuki. *See*—
Shiga, Takuo; Nabeta, Kazuo; Nakano, Hiroyuki; and Suzuki, Toshimitsu, 4,661,519, Cl. 514-547.000.
Tanahashi, Maki; Horuke, Sumio; and Nakano, Hiroyuki, 4,649,364, Cl. 338-14.000.

Nakano, Hisashi. *See*—
Kobayashi, Junji; and Nakano, Hisashi, 4,686,591, Cl. 360-85.000.

Nakano, Hitoshi. *See*—
Shimizu, Keiichi; Kikuchi, Sanae; and Nakano, Hitoshi, 4,709,931, Cl. 277-153.000.

Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Takata, Mamoru, to Toyota Jidosha Kabushiki Kaisha. Method and system for internal combustion engine oxygen sensor heating control which provide maximum sensor heating after cold engine starting. 4,655,182, 4-7-87, Cl. 123-440.000.

Nakano, Jiro, to Fanuc Ltd. Stator laminate impregnation in a liquid-cooled motor. 4,691,131, 9-1-87, Cl. 310-54.000.

Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Kawaguchi, Masao, to Toyota Jidosha Kabushiki Kaisha. Method and system for internal combustion engine oxygen sensor heating control with time smoothing. 4,694,809, 9-22-87, Cl. 123-489.000.

Nakano, Jojt. *See*—
Watanabe, Isao; Momonoi, Kaishu; Hiraiwa, Toru; Ono, Satoshi; Nakano, Jojt; Nagumo, Katsuyuki; and Takagi, Hiroyasu, 4,713,387, Cl. 514-332.000.

Nakano, Jun; Nagahara, Michiko; Hayashida, Mitsuo; Suzuki, Yuji; and Maruyama, Yohichi, to Kaken Pharmaceutical Co., Ltd. Benzofuran derivatives, processes for preparing the same and antihypertensive agents containing the same. 4,652,566, 3-24-87, Cl. 514-253.000.

Nakano, Kazuhiko; and Watanabe, Keiichirou, to Sumitomo Chemical Company, Limited. Method for the production of endosseous implants. 4,687,675, 8-18-87, Cl. 427-2.000.

Nakano, Keiichi. *See*—
Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, 4,633,824, Cl. 123-41.650.
Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, 4,686,946, Cl. 123-90.410.

Nakano, Kenji; and Moriwaki, Hisayoshi, to Sony Corporation. Method and apparatus for selectively compensating burst errors of variable length in successive digital data words. 4,641,309, 2-3-87, Cl. 371-31.000.

Nakano, Kikuo; and Hayashi, Hiroshi, to Agency of Industrial Science & Technology; and Ministry of International Trade & Industry. Method for production of sintered composite having spinel reinforced with short fibers of silicon carbide and sintered composite produced by said method. 4,710,435, 12-1-87, Cl. 428-698.000.

Nakano, Kimchuro. *See*—
Hirano, Motoki; Takeuchi, Mikio; and Nakano, Kimchiro, 4,688,036, Cl. 340-825.690.
Mochida, Haruo; Nakano, Kimchiro; Takeuchi, Mikio; and Hirano, Motoki, 4,672,375, Cl. 340-825.310.

Nakano, Kiyoshi. *See*—
Sakabe, Yukio; Karaki, Shintaro; and Nakano, Kiyoshi, 4,652,967, Cl. 361-309.000.
Uevama, Masato; Kanamaru, Takeshi; Shirai, Toshikazu; and Nakano, Kiyoshi, 4,673,075, Cl. 198-339.100.

Nakano, Kohji. *See*—
Shibanuma, Tadao; Nagano, Noriaki; Hara, Ryuichiro; Nakano, Kohji; Koda, Akio; Yamazaki, Atsuki; and Murakami, Yukiyasu, 4,690,921, Cl. 514-205.000.
Shibanuma, Tadao; Nakano, Kohji; Nagano, Noriaki; Murakami, Yukiyasu; Hara, Ryuichiro; Koda, Akio; and Yamazaki, Atsuki, 4,699,980, Cl. 540-224.000.

Nakano, Kunimitsu; and Onishi, Hiroyuki, to Matsushita Electric Works, Ltd. Power supply switch. 4,716,392, 12-29-87, Cl. 335-189.000.

Nakano, Manabu. *See*—
Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.

Nakano, Masahiro: *See*—
Sakaguchi, Ushio; Nakano, Masahiro; and Uchida, Mitsukuni, 4,705,039, Cl. 128-334.00C.

Nakano, Masaji: *See*—
Fukamizu, Hiroshi; Nakano, Masaji; Iba, Kunio; Yamasaki, Taro; and Sano, Kenji, 4,690,553, Cl. 356-51.000.

Nakano, Masaki; Yamamuro, Sigeaki; Hirano, Hiroyuki; Abo, Keiju; and Kumura, Haruyoshi, to Nissan Motor Co., Ltd. Fluid pressure control valve for hydraulic actuator. 4,651,776, 3-24-87, Cl. 137-625.690.

Nakano, Masaki: *See*—
Kumura, Haruyoshi; Abo, Keiju; Hirano, Hiroyuki; Yamamuro, Sigeaki; and Nakano, Masaki, 4,679,466, Cl. 74-863.000.

Nakano, Masao; Takemae, Yoshihiro; Sato, Kimiaki; and Kodama, Nobumi, to Fujitsu Limited. Booster circuit. 4,704,706, 11-3-87, Cl. 365-203.000.

Nakano, Masao; Takemae, Yoshihiro; Nakano, Tomio; Nozaki, Shigeki; Sato, Kimiaki; and Kodama, Nobumi, to Fujitsu Limited. Semiconductor memory device having a circuit for compensating for discriminating voltage of memory cells. 4,716,549, 12-29-87, Cl. 365-203.000.

Nakano, Masao: *See*—
Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fujii, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased, 4,707,806, Cl. 365-96.000.
Takemae, Yoshihiro; Nakano, Tomio; Nakano, Masao; and Sato, Kimiaki, 4,707,811, Cl. 365-239.000.

Nakano, Minol: *See*—
Kodama, Mitsuo; Miyake, Masaya; Nakano, Minol; Asai, Tsuyoshi; and Hara, Akio, 4,639,352, Cl. 419-15.000.

Nakano, Mitusou, to Mazda Motor Corporation. Rear body structure for motor vehicle. 4,708,391, 11-24-87, Cl. 296-204.000.

Nakano, Motoe, to Fujitsu Limited. Two-tiered dynamic random access memory (DRAM) cell. 4,669,062, 5-26-87, Cl. 365-174.000.

Nakano, Okihiko: *See*—
Ishimura, Yohzoh; Nakano, Okihiko; Matsukura, Toyotsugu; and Kanaoka, Toshiaki, 4,663,508, Cl. 219-10.55C.

Nakano, Osamu: *See*—
Tashiro, Syuzaburo; Ina, Toshikazu; Taguchi, Masahiro; Onimaru, Sadahisa; Nakano, Osamu; and Kuno, Akira, 4,707,788, Cl. 364-424.000.

Nakano, Sadao; and Inaba, Shigeru, to Niles Parts Co., Ltd. Hinge type relay. 4,701,734, 10-20-87, Cl. 335-128.000.

Nakano, Seizo: *See*—
Kamura, Yukio; Nakano, Seizo; Tsubaki, Tohru; Miwada, Satoshi; and Amano, Naoki, 4,658,329, Cl. 361-332.000.
Shirakawa, Shingo; Maruyama, Seiichi; Nakano, Seizo; Okamoto, Eichi; and Kohara, Kenji, 4,675,773, Cl. 361-63.000.

Nakano, Shigeo: *See*—
Yamauchi, Fumio; Tohara, Tsutomu; Nakano, Shigeo; and Emoto, Shigeo, 4,690,960, Cl. 523-442.000.

Nakano, Shinichi: *See*—
Inagaki, Takashi; and Nakano, Shinichi, 4,686,945, Cl. 123-90.220.

Nakano, Shoichi: *See*—
Yamano, Masaru; Kuwano, Yukinori; Nakano, Shoichi; Matsuoka, Tsugufumi; Sakai, Souichi; Yagi, Hirosato; and Okuda, Nobuhiro, 4,670,293, Cl. 427-39.000.

Nakano, Sota; and Ozawa, Masaaki, to Misawa Home Kabushiki Kaisha. Process for production of cellular concrete. 4,655,979, 4-7-87, Cl. 264-42.000.

Nakano, Sota; and Ozawa, Masaaki, to Misawa Home Kabushika Kaisha. Process for production of cellular concrete. 4,683,003, 7-28-87, Cl. 106-86.000.

Nakano, Takaharu; and Ohtake, Nobumasa, to Chisso Corporation. Carboxyl group-containing siloxane compound. 4,658,049, 4-14-87, Cl. 556-437.000.

Nakano, Takao; and Kensuke, Inou, to NEC Corporation. Apparatus for turning flat article posture. 4,699,262, 10-13-87, Cl. 198-411.000.

Nakano, Takayuki: *See*—
Yatsu, Tadao; Nakano, Takayuki; Hinooka, Nobuya; and Kato, Tatsuo, 4,692,506, Cl. 528-296.000.

Nakano, Takeji: *See*—
Tokita, Mamoru; and Nakano, Takeji, 4,662,804, Cl. 409-8.000.

Nakano, Takuo: *See*—
Katakami, Tsutomu; Fukazawa, Nobuyuki; Iizuka, Hajime; Nishina, Takashi; Kamiya, Joji; Tanaka, Yasuhito; and Nakano, Takuo, 4,639,451, Cl. 514-247.000.

Nakano, Tasuku; Kouno, Kazuo; Hibino, Kazunari; and Sakurai, Masashi, to Kabushiki Kaisha Tokai-Rika-Denki-Seisakusho. Apparatus for controlling seatbelt system. 4,708,365, 11-24-87, Cl. 280-801.000.

Nakano, Tetuo: *See*—
Fujimoto, Yuji; Aono, Masayuki; Takei, Tsutomu; Nakano, Tetuo; and Nakabayashi, Teiji, 4,688,392, Cl. 62-174.000.

Nakano, Tomio, to Fujitsu Limited. Circuit for maintaining the potential of a node of a MOS dynamic circuit. 4,649,289, 3-10-87, Cl. 307-246.000.

Nakano, Tomio: *See*—
Nakano, Masao; Takemae, Yoshihiro; Nakano, Tomio; Nozaki, Shigeki; Sato, Kimiaki; and Kodama, Nobumi, 4,716,549, Cl. 365-203.000.
Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,636,982, Cl. 365-149.000.
Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,641,166, Cl. 357-23.600.
Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,649,406, Cl. 357-23.600.
Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,660,174, Cl. 365-63.000.
Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fujii, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased, 4,707,806, Cl. 365-96.000.
Takemae, Yoshihiro; Nakano, Tomio; Nakano, Masao; and Sato, Kimiaki, 4,707,811, Cl. 365-239.000.

Nakano, Toru: *See*—
Nitadori, Yoshiaki; and Nakano, Toru, 4,696,748, Cl. 210-636.000.

Nakano, Tsuneo: *See*—
Hashimoto, Kazuyoshi; Nakano, Tsuneo; Arita, Kazutoyo; Fukuyama, Goro; and Shimosato, Yoshio, 4,687,125, Cl. 226-21.000.

Nakano, Tsunetomo; Yasuno, Hiroshi; and Nishio, Kazuaki, to Ube Industries, Ltd. Multilayer printed circuit board. 4,673,773, 6-16-87, Cl. 174-68.500.

Nakano, Tsuyoshi: *See*—
Sato, Atsushige; Miura, Ishi; Kumei, Yasuhiro; Okuno, Osamu; Nakano, Tsuyoshi; and Yoshida, Bunsaku, 4,702,765, Cl. 75-0.50B.

Nakano Vinegar Co., Ltd.: *See*—
Entani, Etsuzo; Fujiyama, Seiichi; Ohmori, Shoji; and Masai, Hiroshi, 4,654,306, Cl. 435-253.000.
Yamada, Mikio; Tsukamoto, Yoshinori; and Mizuno, Masahiro, 4,654,215, Cl. 426-17.000.
Yamada, Mikio; Mizuno, Masahiro; Tsukamoto, Yoshinori; and Yamada, Koki, 4,656,140, Cl. 436-131.000.
Yamada, Mikio; Tsukamoto, Yoshinori; and Mizuno, Masahiro, 4,692,414, Cl. 435-291.000.

Nakano, Yasuaki: *See*—
Fujisawa, Hiromichi; Nakano, Yasuaki; Komatsu, Hitoshi; Kadota, Shozo; and Kurino, Kiyomichi, 4,654,873, Cl. 382-9.000.

Nakano, Yasuhiko: *See*—
Ooyama, Kazuo; and Nakano, Yasuhiko, 4,671,219, Cl. 123-65.00A.

Nakano, Yoshihisa; Ohira, Masatoshi; Ushida, Manabu; Miyagawa, Tomoyuki; and Shimodaira, Toshiya, to Nippondenso Co., Ltd. Shock absorber control system. 4,635,959, 1-13-87, Cl. 280-707.000.

Nakano, Yoshihito, to Kitagawa Industries Co., Ltd. Degaussing coil holder. 4,665,588, 5-19-87, Cl. 24-16.0PB.

Nakano, Yoshito: *See*—
Ohta, Morio; Tsuchiya, Shizuo; Nakano, Yoshito; Aikawa, Masaru; and Asaumi, Seiji, 4,641,156, Cl. 346-160.000.

Nakano, Yoshiyuki; and Takemae, Mikio, to Nippon Kogaku K. K. Film rewinder. 4,707,095, 11-17-87, Cl. 354-173.110.

Nakano, Yoshiyuki: *See*—
Hosoda, Yuji; Honma, Kazuo; Fujie, Masakatsu; Iwamoto, Taro; Kamejima, Kohji; and Nakano, Yoshiyuki, 4,709,342, Cl. 364-558.000.
Machida, Kiyosada; Nakano, Yoshiyuki; and Matsukawa, Nobuo, 4,697,909, Cl. 354-484.000.

Nakano, Yuji; Kamiyama, Kazushi; and Kobayashi, Tatuo, to Kyocera Corporation. Process for the production of jewelling and ornamental material. 4,703,020, 10-27-87, Cl. 501-86.000.

Nakano, Yuzuru; and Yoshikawa, Takeshi, to Kanai Juyo Kogyo Co., Ltd. Ring for spinning and twisting machines. 4,698,958, 10-13-87, Cl. 57-119.000.

Nakanome, Takemi: *See*—
Tamura, Mitsuhiko; Katsumata, Haruo; and Nakanome, Takemi, 4,647,677, Cl. 549-462.000.

Nakanori, Takayuki; Kimura, Tomoaki; and Nishino, Tadashi, to Hitachi, Ltd.; and Nisshin Steel Co., Ltd. Double drum type continuous casting machine. 4,702,300, 10-27-87, Cl. 164-454.000.

Nakanouchi, Yukio; Ohnuma, Shigehiro; and Masumoto, Tsuyoshi, to Research Development Corporation of Japan, a part interest. Perpendicular magnetic recording medium and production process thereof. 4,688,130, 8-18-87, Cl. 360-135.000.

Nakanowatari, Jun; Machida, Mitsuo; Okamoto, Toshiyuki; and Nakura, Yoshiharu, to Alps Electric Co., Ltd. Flexible printed circuit board for a display device. 4,640,581, 2-3-87, Cl. 350-331.00R.

Nakanowatari, Jun; and Kano, Mitsuru, to Alps Electric Co., Ltd. Liquid crystal device having birefringent plate next to polarizer. 4,711,530, 12-8-87, Cl. 350-339.00R.

Nakanowatari, Jun: *See*—
Kano, Mitsuru; and Nakanowatari, Jun, 4,697,015, Cl. 544-335.000.

Nakao, Etsurou; Yamazaki, Hiroaki; and Hirooka, Masaki, to Carl Freudenberg, Firma. Separator for an alkaline battery. 4,699,858, 10-13-87, Cl. 429-254.000.

Nakao, Hatsuo: *See*—
Sasaki, Torahiko; Sato, Kazuo; Ohkawa, Masahiro; Suzuki, Yoshihiro; Kubota, Masato; Nakao, Hatsuo; and Tange, Kyoichi, 4,696,870, Cl. 429-14.000.

Nakao, Hideo; Fujimoto, Koichi; Ishihara, Sadao; Sugawara, Shinichi; and Igarashi, Isamu, to Sankyo Company Limited. 7-(2-aminothiazol-4-yl)-2-(syn)-methoxyiminoacetamido)-3-methoxymethyl-3-cepham-4-carboxylates. 4,716,158, 12-29-87, Cl. 514-202.000.

Nakao, Kazuhira: *See*—
Ebina, Kiyoshi; Nakao, Kazuhira; and Tani, Zempei, 4,654,525, Cl. 250-231.0SE.

Nakao, Kazuhiro: *See*—
Itoh, Yoshiro; Oogita, Yoshinori; Komaki, Shigeki; and Nakao, Kazuhiro, 4,666,254, Cl. 350-334.000.

Nakao, Kazuo: *See*—
Haruna, Koichi; Nakao, Kazuo; Nishiyama, Tamotsu; Tashiro, Tsutomu; Matsumoto, Kuniaki; and Saida, Nobuyuki, 4,644,480, Cl. 364-552.000.

Nakao, Kazushige: *See*—
Fujii, Masao; Nakao, Kazushige; and Tetsuno, Haruo, 4,653,579, Cl. 165-104.290.
Yumikura, Tsuneo; Ikeuchi, Masaki; Nakao, Kazushige; and Ozaki, Eiichi, 4,651,819, Cl. 165-115.000.

Nakao, Kazuwa: *See*—
Kiso, Yoshiaki; and Nakao, Kazuwa, 4,673,732, Cl. 530-326.000.

Nakao, Kenichiro: *See*—
Fukami, Harukazu; Kikumoto, Ryoji; Nakao, Kenichiro; Nitta, Isse; and Inoue, Shinya, 4,716,161, Cl. 514-222.000.
Kikumoto, Ryoji; Fukami, Harukazu; Nakao, Kenichiro; and Sugano, Mamoru, 4,684,651, Cl. 514-253.000.
Kikumoto, Ryoji; Fukami, Harukazu; Nakao, Kenichiro; and Sugano, Mamoru, 4,684,739, Cl. 549-350.000.

Nakao, Kenji: *See*—
Yamauchi, Takayoshi; Hattori, Kaneaki; Ikeda, Shunichi; Nakao, Kenji; and Tamaki, Kentaro, 4,649,213, Cl. 560-56.000.

Nakao, Kiyoshi; Husayasu, Kazuaki; and Iwasaki, Shozi, to Sanyo Electric Co., Ltd. Steam iron with a removable water tank. 4,646,451, 3-3-87, Cl. 38-77.300.

Nakao, Kunimichi, to Fujitsu Limited. Method and apparatus for adhering a tape or sheet to a semiconductor wafer. 4,714,511, 12-22-87, Cl. 156-285.000.

Nakao, Masaaki: *See*—
Iwako, Motonari; and Nakao, Masaaki, 4,691,867, Cl. 241-21.000.

Nakao, Masayuki: *See*—
Endo, Juro; Murakami, Shiro; Fuji, Shigeo; Nakao, Masayuki; and Iimura, Tsutomu, 4,663,193, Cl. 427-129.000.
Murakami, Shiro; Fuji, Shigeo; Nakao, Masayuki; Igarashi, Yoshio; and Endo, Juro, 4,645,690, Cl. 427-128.000.

Nakao, Minoru: *See*—
Matsui, Toshikazu; Fushida, Akira; Honda, Nobuyasu; Nakao, Minoru; and Tsuji, Nobuyuki, 4,656,935, Cl. 118-658.000.

Nakao, Motokazu, to Sharp Kabushiki Kaisha. Color image readout device with detachable light source unit. 4,692,795, 9-8-87, Cl. 358-75.000.

Nakao, Reiro: *See*—
Kikuchi, Yoshikazu; and Nakao, Reiro, 4,713,092, Cl. 55-130.000.

Nakao, Shin: *See*—
Kohara, Masanobu; Nakao, Shin; and Shibata, Hiroshi, 4,654,966, Cl. 29-840.000.

Nakao, Shinroku; Ishii, Yoshiyasu; Ishii, Kenshun; and Tsuchiya, Kunimasa, to Combi Co., Ltd. Handle for an ergometer or the like. 4,653,745, 3-31-87, Cl. 272-73.000.

Nakao, Shinroku; Saito, Hideo; and Suzuki, Yoshiyuki, to Combi Co., Ltd. Baby stroller. 4,660,850, 4-28-87, Cl. 280-642.000.

Nakao, Shinroku; Ishii, Yoshiyasu; and Matsuda, Hiroaki, to Combi Co., Ltd. Collapsible body support structure. 4,676,466, 6-30-87, Cl. 248-166.000.

Nakao, Shinroku; Itoh, Masao; Itoh, Akira; and Takano, Hiroshi, to Combi Co., Ltd. Bicycle ergometer and eddy current brake therefor. 4,678,182, 7-7-87, Cl. 272-73.000.

Nakao, Sho: *See*—
Kunichika, Kenji; Kagawa, Yoshikatsu; Ohishi, Chikashi; Nakao, Sho; and Asao, Yasuzi, 4,673,627, Cl. 430-49.000.

Nakao, Shouichi: *See*—
Nakazawa, Hayashi; Nakao, Shouichi; Saito, Cyuichi; and Kawagoshi, Makoto, 4,674,619, Cl. 198-331.000.

Nakao, Tadashi; and Sawai, Toshitsugu, to Sharp Kabushiki Kaisha. Mark sensor device with one-dimensional image position sensor. 4,707,600, 11-17-87, Cl. 250-227.000.

Nakao, Toshinari: *See*—
Yasuda, Akira; Akiyama, Kazuhisa; Nakao, Toshinari; and Yuasa, Hiroyoshi, 4,703,347, Cl. 358-102.000.

Nakao, Toshitsugu: *See*—
Masuhara, Yasuhiro; Utamura, Motoaki; Kashiwai, Shinichi; Yokoyama, Iwao; Murata, Shigeto; Nakao, Toshitsugu; and Maeda, Yuichiro, 4,663,116, Cl. 376-377.000.

Nakao, Toshiyuki; Furukawa, Tomotsu; and Mori, Masanori, to Aisin Seiki Kabushiki Kaisha. Automatic transmission system for automobiles having hydraulic and electronic control systems. 4,653,352, 3-31-87, Cl. 74-866.000.

Nakao, Yasuo: *See*—
Ikeda, Mitsuhiro; and Nakao, Yasuo, 4,679,863, Cl. 303-3.000.

Nakao, Yuji: *See*—
Minamitani, Kunitomo; Izuo, Masahiro; Nakao, Yuji; Nishikawa, Toshihide; and Kawaguchi, Hiroyuki, 4,703,735, Cl. 123–89.000.

Nakaoji, Kazuhiko; Kamao, Mitsugu; Itoh, Hayami; Tatsumi, Shuhei; and Takao, Shoichi, to Lion Corporation; Kao Corporation; Mitsui Engineering and Shipbuilding Company Limited; Electric Power Development Company Limited; and Kawasaki Jukogyo Kabushiki Kaisha. Process for producing high concentration coal-water slurry. 4,706,891, 11-17-87, Cl. 241-16.000.

Nakaoka, Junichi: *See*—
Wada, Toshiaki; Nakaoka, Junichi; and Sugano, Takayuki, 4,636,420, Cl. 428-156.000.
Wada, Toshiaki; Katsuyama, Yoshiaki; and Nakaoka, Junichi, 4,690,846, Cl. 428-64.000.

Nakaoka, Kazuhide; Takada, Yoshikazu; Inagaki, Junichi; and Hiura, Akira, to Nippon Kokan Kabushiki Kaisha. Method of producting thin sheet of high Si-Fe alloy. 4,715,905, 12-29-87, Cl. 148-111.000.

Nakaoka, Masaki; Komatsu, Teruo; Goto, Shinji; and Matsunaga, Tsuyoshi, to Canon Kabushiki Kaisha. Dynamic pressure fluid bearing. 4,652,149, 3-24-87, Cl. 384-100.000.

Nakaoka, Sadaaki: *See*—
Okano, Takeshi; Nakaoka, Sadaaki; and Ohashi, Saichiro, 4,640,597, Cl. 353-79.000.

Nakaoka, Tsutomu: *See*—
Uehara, Haruo; and Nakaoka, Tsutomu, 4,658,890, Cl. 165-92.000.

Nakaosa, Yoshitake: *See*—
Sakoda, Kousuke; Kainaga, Masahiro; Akita, Hidehiko; Murata, Fumiya; and Nakaosa, Yoshitake, 4,692,896, Cl. 364-900.000.

Nakasaki, Eiji; Shirashoji, Hisashi; Hoshikawa, Katsuyuki; Kamijo, Takao; Ikeda, Kazushige; Inoue, Yasuhiro; and Kato, Takeo, to Sumitomo Rubber Industries, Ltd. Radial tire for motorcycles. 4,640,329, 2-3-87, Cl. 152-209.00R.

Nakasato, Kanae; Naito, Masayuki; and Kawasaki, Masumi, to Olympus Optical Co., Ltd. Microscope equipped with an electric device for driving revolver and stage. 4,653,878, 3-31-87, Cl. 350-520.000.

Nakase, Hiromi: *See*—
Ozawa, Kunichi; Goto, Yasuhiro; Nakase, Hiromi; and Yukimi, Shinya, 4,644,157, Cl. 250-231.0SE.

Nakase, Hiroshi: *See*—
Okada, Jun; Kunimasa, Koichi; and Nakase, Hiroshi, 4,638,477, Cl. 370-94.000.

Nakase, Kohji: *See*—
Hasegawa, Kazuo; Sasaki, Hiroaki; and Nakase, Kohji, 4,689,446, Cl. 178-18.000.

Nakase, Koji; and Sasaki, Hiroaki, to Alps Electric Co., Ltd. Optical code reader. 4,698,490, 10-6-87, Cl. 235-472.000.

Nakase, Ryoichi, to Sanshin Kogyo Kabushiki Kaisha. Tilt mechanism for marine propulsion device. 4,702,714, 10-27-87, Cl. 440-61.000.

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Miyoshi, Akihiko; and Nakashima, Hitoshi, 4,687,223, Cl. 280-707.000.

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Nakashima, Naoto: *See*—
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Hanamori, Ryoichi; Nakashima, Shigeo; and Yamamoto, Hiroshi, 4,693,580, Cl. 354-271.100.

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Shibahashi, Yutaka; Nakasuji, Norikazu; Kataoka, Takashi; Inagaki, Hiroshi; Kito, Tutomu; Ozaki, Masaharu; Matsuura, Nobuaki; Ishimura, Naoya; and Fujita, Katuyuki, 4,681,791, Cl. 428-96.000.

Nakata, Akira; Matsumoto, Shiroh; Tozima, Hitoshi; and Minato, Masahiko, to Hokkai Can Co., Ltd. Easy open type can. 4,712,706, 12-15-87, Cl. 220-276.000.

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Hanada, Shigeru; Inagaki, Etsuo; and Nakata, Hiroya, 4,689,800, Cl. 373-104.000.

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Nakata, Kazuhiro: *See*—
Sakai, Shoji; Noda, Koshi; Nakata, Kazuhiro; and Takashima, Shingo, 4,662,859, Cl. 464-88.000.

Nakata, Kazuo; and Miyamoto, Takanori, to Hitachi, Ltd. Method and apparatus for extracting speech pitch. 4,653,098, 3-24-87, Cl. 381-49.000.

Nakata, Koreaki: *See*—
Yuasa, Yasuhito; Hayashi, Kazumasa; Nakata, Koreaki; and Okuma, Akihiro, 4,689,285, Cl. 430-122.000.

Nakata, Kouji: *See*—
Kato, Mikihiko; Komine, Shigeo; Koyota, Katsumi; and Nakata, Kouji, 4,671,978, Cl. 428-65.000.

Nakata, Masaru: *See*—
Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Eenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.

Nakata, Michio: *See*—
Nozawa, Seiichi; and Nakata, Michio, 4,661,581, Cl. 528-176.000.

Nakata, Minoru: *See*—
Ohta, Kazutoshi; and Nakata, Minoru, 4,653,611, Cl. 187-107.000.

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Nakata, Moritsune; Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Higuchi, Megumu; Aoyama, Yutaka; and Shibahata, Yasuji, to Nissan Motor Co., Ltd. Steering system controlling transverse displacement of a gear housing. 4,634,135, 1-6-87, Cl. 280-90.000.

Nakata, Moritsune: *See*—
Yanai, Tokiyoshi; Nakayama, Masafumi; Aoyama, Yutaka; and Nakata, Moritsune, 4,650,019, Cl. 180-79.100.
Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Nakayama, Masafumi; Higuchi, Megumu; Aoyama, Yutaka; and Nakata, Moritsune, 4,669,360, Cl. 91-382.000.

Nakata, Rikizo: *See*—
Okumoto, Tadaoki; Nakata, Rikizo; Ichikawa, Masayoshi; Tsuchihashi, Masaaki; and Sakai, Koichi, 4,645,788, Cl. 524-308.000.

Nakata, Shigenori: *See*—
Okawa, Susumu; Jufuku, Yasunobu; Okuwaki, Shigeru; Kondou, Takayoshi; Endo, Toshiya; and Nakata, Shigenori, 4,655,734, Cl. 474-242.000.

Nakata, Shinobu: *See*—
Maruno, Susumu; Nakata, Shinobu; Nagahiro, Michinori; and Minamide, Seiko, 4,712,930, Cl. 400-120.000.

Nakata, Shuji: *See*—
Kayakabe, Hiroshi; Mitomi, Masaei; Miyajima, Mikio; Nakata, Shuji; Shimizu, Tadashi; Yoshito, Kazuharu; and Nishiu, Masamichi, 4,677,021, Cl. 428-306.600.
Mukai, Kazuo; Honjoh, Akira; and Nakata, Shuji, 4,656,790, Cl. 51-141.000.

Nakata, Tadao: *See*—
Era, Susumu; Yokokura, Hisao; Iwasaki, Kishiro; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, 4,653,866, Cl. 350-350.00S.
Iwasaki, Kishiro; Era, Susumu; Yokokura, Hisao; Nakata, Tadao; and Mukoh, Akio, 4,634,228, Cl. 350-341.000.

Yokokura, Hisao; Era, Susumu; Abe, Hidetoshi; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, 4,645,305, Cl. 350-351.000.

Nakata, Tetsuya: *See*—
Miura, Katsuhito; and Nakata, Tetsuya, 4,711,950, Cl. 528-409.000.

Nakata, Toshihiko: *See*—
Oshida, Yoshitada; Shiba, Masataka; Nakata, Toshihiko; Koizumi, Mitsuyoshi; and Nakashima, Naoto, 4,668,089, Cl. 356-152.000.
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Nakata, Yasuo: *See*—
Miki, Hiroyuki; Nakata, Yasuo; Hirata, Kazuo; Ishizumi, Senichi; and Funabashi, Genichi, 4,669,565, Cl. 180-89.120.

Nakata, Yoshinari: *See*—
Hashimoto, Mikio; Nakata, Yoshinari; and Koga, Hitoshi, 4,681,816, Cl. 428-463.000.

Nakata, Yoshinobu: *See*—
Yoshida, Tomio; Nakata, Yoshinobu; Ohara, Shunji; and Satoh, Toshio, 4,700,336, Cl. 369-44.000.

Nakata, Yukihiko: *See*—
Maruyama, Toshio; Shibuya, Noriaki; and Nakata, Yukihiko, 4,714,868, Cl. 320-5.000.

Nakatake, Yoshiteru: *See*—
Setoguti, Syohati; Nakatake, Yoshiteru; Uehara, Mitsuru; and Kudou, Masayuki, 4,692,835, Cl. 361-104.000.

Nakatani, Hajime: *See*—
Haruta, Kenyu; Wakata, Hitoshi; Sato, Yukio; Nagai, Haruhiko; Nakatani, Hajime; and Kita, Hideki, 4,686,682, Cl. 372-87.000.

Nakatani, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Curved escalator. 4,662,502, 5-5-87, Cl. 198-328.000.

Nakatani, Hiroshi; Yoshida, Hirokazu; and Yamamura, Keiji, to Sharp Kabushiki Kaisha. Driver device mounting for a flat matrix display panel. 4,710,680, 12-1-87, Cl. 315-169.400.

Nakatani, Hiroshi: *See*—
Seki, Masahiko; Nakatani, Hiroshi; Kogumasaka, Katsuya; Takao, Seiyu; Arimitsu, Isao; and Fujimori, Hisanori, 4,653,065, Cl. 372-80.000.
Takamatsu, Toshiaki; Kuwagaki, Hiroshi; Minezaki, Shigehiro; Yamamoto, Kunihiko; Nakatani, Hiroshi; and Kawaguchi, Hisao, 4,690,510, Cl. 350-334.000.

Nakatani, Kazuo: *See*—
Yoshida, Yuji; Suzuki, Shigeo; Nakatani, Kazuo; Mukai, Yuji; Nakazawa, Akira; and Imoto, Takumi, 4,679,403, Cl. 62-114.000.

Nakatani, Kenichi; Ohnishi, Shohzo; and Kurosaki, Tadamasa, to Sankyo Kabushiki Kaisha. Amidines and a method of manufacturing the same. 4,683,249, 7-28-87, Cl. 521-129.000.

Nakatani, Kenji: *See*—
Okaniwa, Hiroshi; Nakatani, Kenji; and Sato, Tetsuo, 4,697,041, Cl. 136-244.000.

Nakatani, Kiyoshi; Numata, Satoshi; Kodaka, Kenji; Oda, Kengo; Shiraishi, Shiro; and Udagawa, Takatoshi, to Mitsui Toatsu Chemicals, Inc. Certain aryl-alkane-2-pyridyloxy-phenyl derivatives having insecticidal and acaricidal activity. 4,661,501, 4-28-87, Cl. 514-345.000.

Nakatani, Masaki; and Hiraga, Yoichi, to Toyo Soda Manufacturing Co., Ltd. Method for removing organic materials from a wet process phosphoric acid. 4,637,922, 1-20-87, Cl. 423-321.00R.

Nakatani, Masayuki: *See*—
Makino, Hiroshi; and Nakatani, Masayuki, 4,690,873, Cl. 428-473.500.
Sugisawa, Ko; Sekiguchi, Kazuya; Taguchi, Masao; Nakatani, Masayuki; and Iwata, Hitoshi, 4,690,699, Cl. 55-267.000.

Nakatani, Mitsuo: *See*—
Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hitoshi; Isogai, Tokio; Saitoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, 4,643,913, Cl. 427-75.000.

Nakatani, Sadao: *See*—
Iwasa, Masakazu; Morita, Kazuhiko; Nakatani, Sadao; and Nakamura, Eiji, 4,670,314, Cl. 428-35.000.

Nakatani, Seiichi; Yuhaku, Satoru; Okinaka, Hideyuki; Ishida, Toru; Makino, Osamu; and Kikuchi, Tatsuro, to Matsushita Electric Industrial Co., Ltd. Conductor paste and method of manufacturing a multilayered ceramic body using the paste. 4,714,570, 12-22-87, Cl. 252-518.000.

Nakatani, Seiichi: *See*—
Nishimura, Tsutomu; Nakatani, Seiichi; Yuhaku, Satoru; and Ishida, Toru, 4,695,403, Cl. 252-513.000.

Nakatani, Shuichi: *See*—
Nakayama, Hideo; Nakatani, Shuichi; Tanaka, Fusatoshi; and Hanafusa, Hiroyuki, 4,690,106, Cl. 123-52.00M.
Tanaka, Fusatoshi; Nakatani, Shuichi; Nakayama, Hideo; and Hanafusa, Hiroyuki, 4,660,527, Cl. 123-41.82R.

Nakatani, Tomofumi; and Nakamura, Shogo, to Ricoh Company, Ltd. Binary processing of sound spectrum. 4,634,966, 1-6-87, Cl. 324-77.00B.

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Nakatsugawa, Kenji; Katayama, Aiichi; Sekiya, Hitoshi; and Hiratsuka, Shoji, to Anritsu Corporation. Digital wave observation apparatus. 4,642,519, 2-10-87, Cl. 315-1.000.

Nakatsugawa, Norihiko, to Kabushiki Kaisha Toshiba. Intrusion alarm system with automatic exit control and misset indicator. 4,683,460, 7-28-87, Cl. 340-545.000.

Nakatsui, Hisashi; Imataki, Hiroyuki; and Hajimoto, Yoshiaki, to Canon Kabushiki Kaisha. Amorphous silicon photoelectric transducer with a photoconductive colorant layer. 4,682,019, 7-21-87, Cl. 250-211.00R.

Nakatsui, Toji: *See*—
Murai, Katsumi; Hiratsuka, Kosai; Yoshinaga, Shoji; Nakatsui, Toji; Oda, Chikao; and Fujiwara, Kiyoshi, 4,698,142, Cl. 204-182.300.

Nakatsuji, Itsuo: *See*—
Yorita, Tadahiro; Matsumoto, Haruo; and Nakatsuji, Itsuo, 4,680,560, Cl. 333-206.000.

Nakatsuji, Teruyuki: *See*—
Sugita, Minoru; Nakatsuji, Teruyuki; Fujisaki, Tadashi; Hiraga, Hisao; Nishimoto, Takashi; and Futagawa, Minoru, 4,706,430, Cl. 52-309.160.

Nakatsuji, Toshiharu: *See*—
Sakamoto, Kazuhiko; Nakatsuji, Toshiharu; Mototani, Hideo; Kamoshita, Katsuzo; Nakayama, Isamu; and Kato, Toshiro, 4,654,368, Cl. 514-493.000.

Nakatsuka, Hirotaka: *See*—
Ohmori, Toshihiko; Nakatsuka, Hirotaka; and Kanou, Hiroyuki, 4,653,448, Cl. 123-446.000.

Nakatsuka, Hisayoshi, to Namiki Precision Jewel Co., Ltd. Grounding circuit for pickup cartridge moving coil. 4,637,009, 1-13-87, Cl. 369-147.000.

Nakatsuka, Hisayoshi, to Namiki Precision Jewel Co., Ltd. Circuit connection for coils wound on yoke of an electromagnetic pickup cartridge. 4,644,518, 2-17-87, Cl. 369-146.000.

Nakatsuka, Iwao; Shimizu, Hiroshi; and Yoshitake, Akira, to Sumitomo Chemical Company, Limited. Radioactive iodospiroperidol. 4,687,852, 8-18-87, Cl. 546-20.000.

Nakatsuka, Katsuto: *See*—
Funaki, Takashi; and Nakatsuka, Katsuto, 4,679,775, Cl. 267-64.270.

Nakatsuka, Masanori, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor device with solder overflow prevention geometry. 4,692,788, 9-8-87, Cl. 357-72.000.

Nakatsuka, Masashi: *See*—
Ohashi, Naohito; Nagata, Shoji; Nakatsuka, Masashi; Ishizumi, Kikuo; Katsube, Junki; Aono, Shunji; and Sakurama, Teruo, 4,695,580, Cl. 514-412.000.

Nakatsuka, Nobuo: *See*—
Hisano, Atushi; Yamaguchi, Yoshinori; Masaki, Toshimichi; Saka, Kazuhiko; Nakatsuka, Nobuo; and Kato, Mitsutaka, 4,703,344, Cl. 358-60.000.
Honda, Tadashi; Imao, Kayoko; Nakatsuka, Nobuo; and Nakanishi, Toshihiro, 4,665,201, Cl. 549-275.000.
Morishita, Koji; Hirose, Hujio; Nakatsuka, Nobuo; and Nishimura, Masahiro, 4,679,932, Cl. 356-28.000.
Saka, Kazuhiko; Hisano, Atsushi; Kato, Michitaka; Masaki, Toshimichi; and Nakatsuka, Nobuo, 4,703,512, Cl. 382-22.000.

Nakatsuka, Saburo: *See*—
Takahashi, Akira; Kudara, Yoshifumi; Shoji, Sadao; and Nakatsuka, Saburo, 4,662,533, Cl. 220-209.000.

Nakatsuka, Satoshi: *See*—
Sakauchi, Takashi; Mohri, Fumihiko; Tomoda, Naohisa; and Nakatsuka, Satoshi, 4,702,852, Cl. 252-62.540.

Nakatsukasa, Walter M., to Eli Lilly and Company. Culture and process for producing A41030 antibiotics. 4,695,545, 9-22-87, Cl. 435-119.000.

Nakatsukasa, Walter M.: *See*—
Mabe, James A.; and Nakatsukasa, Walter M., 4,683,206, Cl. 435-253.000.
Mabe, James A.; and Nakatsukasa, Walter M., 4,698,307, Cl. 435-253.000.

Nakatsuyama, Takashi; and Ito, Akashi, to Sony Corporation. Start-control method and circuit for optical disc play-back system. 4,656,617, 4-7-87, Cl. 369-45.000.

Nakatuka, Michie: *See*—
Nakaguti, Osamu; Shimazaki, Norihiko; Kawai, Yoshio; Hashimoto, Masashi; and Nakatuka, Michie, 4,694,004, Cl. 514-228.000.

Nakauchi, Kenji, to Fuji Photo Film Co., Ltd. Thermal developing apparatus. 4,686,351, 8-11-87, Cl. 219-216.000.

Nakauchi, Kenji: *See*—
Furutera, Masaharu; Furukawa, Tetsuro; Matsushita, Yoshiaki; and Nakauchi, Kenji, 4,672,821, Cl. 62-324.200.
Matsumoto, Fumio; Nakauchi, Kenji; and Iijima, Hideaki, 4,666,307, Cl. 356-404.000.
Matsumoto, Fumio; Nakauchi, Kenji; and Shiraishi, Atsushi, 4,667,245, Cl. 358-214.000.

Nakaue, Misato: *See*—
Sakata, Yoshitsugu; Hamanaka, Tadashi; Iwata, Kenzi; and Nakaue, Misato, 4,665,038, Cl. 436-97.000.

Nakawaki, Yasunori: *See*—
Tatara, Yuudai; Okawa, Susumu; Matsui, Hideaki; and Nakawaki, Yasunori, 4,660,438, Cl. 74-689.000.

Nakaya, Chitose; Takeuchi, Hiroshi; and Katakura, Kageyoshi, to Hitachi, Ltd.; and Hitachi Medical Corporation. Ultrasonic transducer using piezoelectric composite. 4,658,176, 4-14-87, Cl. 310-334.000.

Nakaya, Chitose: *See—*
Takeuchi, Hiroshi; Nakaya, Chitose; and Katakura, Kageyoshi, 4,683,396, Cl. 310-358.000.
Umemura, Shin'ichiro; Takeuchi, Hiroshi; Katakura, Kageyoshi; and Nakaya, Chitose, 4,680,499, Cl. 310-314.000.

Nakaya, Keiichi; Tanaka, Kunio; and Yokoyama, Koichi, to Asahi Glass Company Ltd. Process for producing anhydrous sodium carbonate. 4,652,437, 3-24-87, Cl. 423-421.000.

Nakaya, Keiichi; and Tanaka, Kunio, to Asahi Glass Company Ltd. Process for producing highly pure magnesium hydroxide. 4,693,872, 9-15-87, Cl. 423-164.000.

Nakaya, Keiichi; and Tanaka, Kunio, to Asahi Glass Company Ltd. Magnesium hydroxide and process for its production. 4,695,445, 9-22-87, Cl. 423-635.000.

Nakaya, Keiichi; Tanaka, Kunio; Kanno, Fukuo; and Kobayashi, Mitaka, to Asahi Glass Company Ltd. Magnesium hydroxide, process for its production and resin composition containing it. 4,698,379, 10-6-87, Cl. 523-513.000.

Nakaya, Keiichi: *See—*
Senoue, Makoto; Terase, Kunihiko; and Nakaya, Keiichi, 4,673,558, Cl. 423-240.000.

Nakaya, Masao: *See—*
Okada, Keisuke; and Nakaya, Masao, 4,654,690, Cl. 357-51.000.

Nakaya, Takashi, to Meinan Machinery Works, Inc. Conveyor system for conveying veneer sheets with spacings therebetween. 4,681,002, 7-21-87, Cl. 83-71.000.

Nakaya, Tsutomu; and Maruyama, Masayoshi, to Okashiro Sangyo Kabushiki Kaisha. Sleeve to be attached to the reel on a winding or rewinding machine. 4,697,757, 10-6-87, Cl. 242-68.500.

Nakaya, Yasuhiro: *See—*
Asai, Toshio; and Nakaya, Yasuhiro, 4,637,399, Cl. 128-639.000.
Asai, Toshio; Nakaya, Yasuhiro; and Onodera, Yasuaki, 4,681,118, Cl. 128-643.000.

Nakayama, Akira; Nakamura, Katsuya; Hata, Kotaro; and Yamamoto, Makoto, to Nippon Zeon Co., Ltd. Magnetic paint for magnetic recording media. 4,707,411, 11-17-87, Cl. 428-413.000.

Nakayama, Akira: *See—*
Yamane, Kunio; Ohmura, Kazutaka; Nakayama, Akira; and Takeuchi, Yasutoshi, 4,663,294, Cl. 435-317.000.

Nakayama, Fumio: *See—*
Imamura, Eiji; Kumokawa, Takashi; Nakayama, Fumio; Mandai, Haruhumi; Fukutani, Iwao; and Tomono, Kunisaburo, 4,698,605, Cl. 333-184.000.

Nakayama, Hajime; Aoki, Osamu; Nishijima, Shigetoshi; Horiuchi, Haruo; Sugino, Takuya; and Takagi, Shuichi, to Honda Giken Kogyo Kabushiki Kaisha. Air-fuel mixture flow control structure and method of making the same. 4,672,940, 6-16-87, Cl. 123-590.000.

Nakayama, Hideo; Nakatani, Shuichi; Tanaka, Fusatoshi; and Hanafusa, Hiroyuki, to Mazda Motor Corporation. Intake system for internal combustion engine. 4,690,106, 9-1-87, Cl. 123-52.00M.

Nakayama, Hideo: *See—*
Tanaka, Fusatoshi; Nakatani, Shuichi; Nakayama, Hideo; and Hanafusa, Hiroyuki, 4,660,527, Cl. 123-41.82R.

Nakayama, Hiroki; Sato, Yasuhisa; and Yamada, Yasuyuki, to Canon Kabushiki Kaisha. Compact photographic lens. 4,695,134, 9-22-87, Cl. 350-432.000.

Nakayama, Hiroki: *See—*
Oizumi, Kouji; Sato, Yasuhisa; Yamada, Yasuyuki; and Nakayama, Hiroki, 4,652,091, Cl. 350-427.000.
Sato, Yasuhisa; Yamada, Yasuyuki; and Nakayama, Hiroki, 4,659,186, Cl. 350-423.000.
Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Oizumu, Kouji, 4,679,913, Cl. 350-423.000.
Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Oizumi, Kouji, 4,697,882, Cl. 350-257.000.
Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Oizumi, Kouji, 4,643,536, Cl. 350-422.000.
Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Oizumi, Kouji, 4,702,581, Cl. 354-126.000.

Nakayama, Hiromichi, to Nifco Inc. Locking device. 4,688,834, 8-25-87, Cl. 292-5.000.

Nakayama, Hiromichi; and Fukuda, Moritoshi, to Nifco Inc. Hook device for ornamental button on seat cover. 4,691,416, 9-8-87, Cl. 24-90.00B.

Nakayama, Hitoshi, to Honda Giken Kogyo Kabushiki Kaisha. Inhibitor means for a starter device in a multi-transmission motor vehicle. 4,683,777, 8-4-87, Cl. 74-850.000.

Nakayama, Hitoshi: *See—*
Nagata, Teruyuki; Kajimoto, Nobuyuki; Wada, Masaru; Nakayama, Hitoshi; and Yamada, Tadao, 4,668,793, Cl. 548-317.000.

Nakayama, Isamu: *See—*
Sakamoto, Kazuhiko; Nakatsuji, Toshiharu; Mototani, Hideo; Kamoshita, Katsuzo; Nakayama, Isamu; and Kato, Toshiro, 4,654,368, Cl. 514-493.000.

Nakayama, Iwao; Kobayashi, Masatoshi; Ichinose, Kazushige; and Nasuno, Kenji, to Matsushima Kogyo Kabushiki Kaisha. Quartz crystal oscillator with crystal supported on spring. 4,677,397, 6-30-87, Cl. 331-187.000.

Nakayama, Jin, to Casio Computer Co., Ltd. Electronic game apparatus. 4,716,529, 12-29-87, Cl. 364-410.000.

Nakayama, Junichi: *See—*
Miyajima, Nobuyuki; Hata, Kenji; and Nakayama, Junichi, 4,710,313, Cl. 252-105.000.

Nakayama, Kazuaki, to Pioneer Electronic Corporation. Stereo sound field enlarging circuit. 4,700,389, 10-13-87, Cl. 381-1.000.

Nakayama, Kazutaka: *See—*
Minowa, Toshio; Hashimoto, Tetsuro; Kuroda, Kohji; and Nakayama, Kazutaka, 4,697,885, Cl. 350-334.000.

Nakayama, Keiji: *See—*
Taniguchi, Koki; Yamaguchi, Shigeri; and Nakayama, Keiji, 4,639,062, Cl. 339-59.00M.

Nakayama, Kenji; and Takeuchi, Yayoi, to NEC Corporation. Line equalizer operable in response to an input signal of a variable data rate. 4,686,686, 8-11-87, Cl. 375-11.000.

Nakayama, Kenji, to NEC Corporation. Line equalizer having pulse-width deviation detector for compensating long-term level variations. 4,707,840, 11-17-87, Cl. 375-14.000.

Nakayama, Kenji: *See—*
Nakajima, Junichi; Nakayama, Kenji; and Takizawa, Takeshi, 4,685,498, Cl. 144-208.00B.

Nakayama, Kimio: *See—*
Yamamoto, Shinji; Kaijizi, Kouhei; Nagakura, Kouichi; Oda, Denichi; Matsumori, Yasuo; and Nakayama, Kimio, 4,703,086, Cl. 525-133.000.

Nakayama, Kiyoharu: *See—*
Genda, Yoshikazu; Muro, Hiroyuki; Nakayama, Kiyoharu; Miyazaki, Yoshiaki; and Sugita, Yoshiji, 4,680,413, Cl. 548-526.000.

Nakayama, Kiyoshi: *See—*
Sahara, Hirokazu; and Nakayama, Kiyoshi, 4,675,688, Cl. 343-765.000.
Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji; Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.

Nakayama, Koji; Yoshida, Ryo; and Morita, Kouichi, to Sumitomo Chemical Company, Limited. Carbamoyltriazoles, and their production and use. 4,702,764, 10-27-87, Cl. 71-92.000.

Nakayama, Kouichi, to Aisin Seiki Kabushiki Kaisha. Driving apparatus for stirling cycle engine. 4,712,378, 12-15-87, Cl. 60-525.000.

Nakayama, Makoto, to Mazda Motor Corporation. Paint drying furnace. 4,656,758, 4-14-87, Cl. 34-54.000.

Nakayama, Masafumi: *See—*
Yanai, Tokiyoshi; Nakayama, Masafumi; Aoyama, Yutaka; and Nakata, Moritsune, 4,650,019, Cl. 180-79.100.
Yanai, Tokiyoshi; Yamaguchi, Hiroatsugu; Nakayama, Masafumi; Higuchi, Megumu; Aoyama, Yutaka; and Nakata, Moritsune, 4,669,360, Cl. 91-382.000.

Nakayama, Masaharu: *See—*
Ohmura, Hiroshi; and Nakayama, Masaharu, 4,659,769, Cl. 524-529.000.
Ohmura, Hiroshi; Oshibe, Yoshihiro; Nakayama, Masaharu; and Yamamoto, Takashi, 4,698,388, Cl. 525-88.000.

Nakayama, Masanobu: *See—*
Goto, Hajime; Amemiya, Ikuzo; Nakayama, Masanobu; and Hatano, Yoshinobu, 4,639,988, Cl. 29-25.350.

Nakayama, Masatoshi; Morita, Haruyuki; Kubota, Yuichi; and Tsuchiya, Keiko, to TDK Corporation. Magnetic recording medium. 4,699,847, 10-13-87, Cl. 428-522.000.

Nakayama, Masayuki: *See—*
Yada, Hiroaki; Imakoshi, Shigeyoshi; Suyama, Hideo; Sekiya, Tetsuo; and Nakayama, Masayuki, 4,701,815, Cl. 360-77.000.

Nakayama, Matsue: *See—*
Sato, Hosaku; Ayusawa, Kazutoshi; Saito, Minoru; and Nakayama, Matsue, 4,699,891, Cl. 501-139.000.

Nakayama, Mitsuhisa; and Kawanaka, Yoshikazu, to U.S. Philips Corporation. Magazine containing a plurality of disc holders and combination of a record disc changer with such magazine. 4,653,037, 3-24-87, Cl. 369-38.000.

Nakayama, Mitsuhisa, to U.S. Philips Corporation. Disc player with strobe light illumination. 4,706,237, 11-10-87, Cl. 369-75.100.

Nakayama, Mitsuhito: *See—*
Yamazaki, Sigeru; and Nakayama, Mitsuhito, 4,667,264, Cl. 361-77.000.

Nakayama, Muneo: *See—*
Hashimoto, Akira; Nishimura, Toshihiro; Nakayama, Muneo; Nakane, Hisashi; and Toda, Shozo, 4,694,040, Cl. 524-765.000.

Nakayama, Nobuhiro: *See—*
Isoda, Tetsuo; Watanabe, Youichirou; Aoki, Mitsuo; and Nakayama, Nobuhiro, 4,672,016, Cl. 430-108.000.

Nakayama, Nobuo; Nagamine, Kenzi; Ueda, Kazuya; and Saito, Fuminari, to Matsushita Electric Industrial Co., Ltd. Hand-held scanner with a speed control device. 4,703,186, 10-27-87, Cl. 250-566.000.

Nakayama, Nobuyoshi: *See—*
Ozu, Tadahiro; Nakayama, Nobuyoshi; and Fujii, Tatsuo, 4,687,136, Cl. 239-8.00X.

Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, to Konishiroku Photo Industry Co., Ltd. Silver halide photographic light-sensitive material. 4,695,533, 9-22-87, Cl. 430-558.000.

Nakayama, Noritaka: *See—*
Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,665,015, Cl. 430-558.000.
Kaneko, Yutaka; Kadokura, Kenji; Kimura, Toshihiko; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,675,280, Cl. 430-558.000.

Nakayama, Ryoichi: *See—*
Iida, Hitoshi; and Nakayama, Ryoichi, 4,637,494, Cl. 187-10.000.

Nakayama, Satoshi: *See*—
Okada, Ikuo; Saitoh, Yasunao; Yoshihara, Hideo; and Nakayama, Satoshi, 4,635,282, Cl. 378-34.000.
Sakura, Yasuhiro; Nimura, Hitoshi; and Nakayama, Satoshi, 4,638,332, Cl. 346-76.0PH.

Nakayama, Shigenori: *See*—
Yoshikawa, Seiji; Sato, Isao; Nakayama, Shigenori; and Amazaki, Mitsuhiro, 4,697,498, Cl. 91-420.000.

Nakayama, Shigeo: *See*—
Ishiguro, Minoru; Kamoda, Takashi; Nishizawa, Tetuo; Nakayama, Shigeo; and Yoshida, Toshio, 4,669,845, Cl. 354-288.000.

Nakayama, Shigeru: *See*—
Matsui, Shigetomo; Nakayama, Shigeru; Okada, Hiroichi; and Sakurai, Takashi, 4,672,163, Cl. 219-74.000.

Nakayama, Susumu: *See*—
Itagaki, Masato; Kikuchi, Katsuaki; Nakayama, Susumu; Haeda, Yoshio; and Kawakami, Takashi, 4,704,792, Cl. 29-741.000.

Nakayama, Syoichi; Itou, Keita; and Suzuki, Setsuo, to Sumitomo Bakelite Company Limited. Composite substrate plate for magnetic or optical disk and process for production thereof. 4,673,602, 6-16-87, Cl. 428-65.000.

Nakayama, Tadao: *See*—
Sakamaki, Hirokichi; and Nakayama, Tadao, 4,656,855, Cl. 72-8.000.

Nakayama, Takao: *See*—
Inukai, Yuzo; Naruse, Yasuhito; Nakayama, Takao; and Kaneko, Nobuyoshi, 4,647,475, Cl. 427-44.000.

Nakayama, Takehisa: *See*—
Tawada, Yoshihisa; Nakayama, Takehisa; Tai, Masahiko; and Ikuchi, Nozomu, 4,664,890, Cl. 422-186.050.
Yamamoto, Kenji; Nakayama, Takehisa; and Tawada, Yoshihisa, 4,711,807, Cl. 428-334.000.

Nakayama, Takenori: *See*—
Fujiwara, Kazuo; Tomari, Haruo; and Nakayama, Takenori, 4,664,725, Cl. 148-325.000.

Nakayama, Takeshi: *See*—
Terada, Yasushi; and Nakayama, Takeshi, 4,691,216, Cl. 357-23.600.
Terada, Yasushi; and Nakayama, Takeshi, 4,694,314, Cl. 357-23.600.

Nakayama, Tamotsu: *See*—
Nozawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiko; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, 4,698,904, Cl. 29-726.000.

Nakayama, Teruo: *See*—
Shibazaki, Toshimi; and Nakayama, Teruo, 4,711,080, Cl. 57-207.000.

Nakayama, Tetsuro, to Tokyo Electric Co., Ltd. Printing device. 4,706,098, 11-10-87, Cl. 346-140.00R.

Nakayama, Tetsuroh, to Tokyo Electric Co., Ltd. Ink dot printer with selective energization of both electrodes. 4,700,204, 10-13-87, Cl. 346-140.00R.

Nakayama, Tetsuroh, to Tokyo Electric Co., Ltd. Ink jet printing device. 4,710,784, 12-1-87, Cl. 346-140.00R.

Nakayama, Tetsuroh: *See*—
Okuno, Shigeru; Torisawa, Yoshihiro; Endo, Mitsuharu; Nakayama, Tetsuroh; Shimosato, Masashi; and Fukushima, Takafumi, 4,696,589, Cl. 400-119.000.

Nakayama, Tomobumi; Mori, Toshihiko; Hirose, Masayuki; Ohbuchi, Toru; Miyata, Masanori; Nakamura, Shinichi; and Honjo, Takeshi, to Canon Kabushiki Kaisha. Image forming apparatus. 4,712,908, 12-15-87, Cl. 355-14.0SH.

Nakayama, Toshiaki; Kohama, Tokio; Okada, Isamu; and Yokoyama, Tamio, to Nippondenso Co., Ltd.; and Kureha Ltd. Method of producing filter for air cleaner. 4,702,940, 10-27-87, Cl. 427-244.000.

Nakayama, Toshihiko; Moriguchi, Fujio; Murayama, Tomio; and Takeo, Yasuhiro, to Fuji Xerox Co. Ltd. Thermal recording method and apparatus. 4,638,329, 1-20-87, Cl. 346-76.0PH.

Nakayama, Toyoo: *See*—
Fuji, Setsuro; Nakayama, Toyoo; Nunomura, Shigeki; Matsui, Ryoji; Watanabe, Shin-ichi; Sudo, Kimio; Okutome, Toshiyuki; Kurumi, Masateru; Sakurai, Yojiro; and Aoyama, Takuo, 4,634,783, Cl. 549-475.000.

Nakayama, Wataru; Hirasawa, Shigeki; and Nakajima, Tadakatsu, to Hitachi, Ltd. Apparatus for cooling integrated circuit chips. 4,694,378, 9-15-87, Cl. 361-385.000.

Nakayama, Wataru: *See*—
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, 4,653,163, Cl. 29-157.30R.
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; and Oizumi, Kiyoshi, 4,690,211, Cl. 165-177.000.
Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizumi, Kiyoshi; Kakizaki, Kimio; Nakayama, Wataru; Daikoku, Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshihiko, 4,678,029, Cl. 165-133.000.
Takahashi, Kenji; Kuwahara, Heikichi; Yanagida, Takehiko; Nakayama, Wataru; Oizumi, Kiyoshi; and Sugimoto, Shigeo, 4,715,436, Cl. 165-133.000.

Nakayama, Yasuhiko: *See*—
Furuya, Nobuaki; Nakayama, Yasuhiko; and Watanabe, Yoshio, 4,672,494, Cl. 360-125.000.

Nakayama, Yasunobu; and Sato, Yasuji, to Kabushiki Kaisha Toshiba. Electric source circuit for telephone sets. 4,636,588, 1-13-87, Cl. 379-362.000.

Nakayama, Yasunobu; and Sato, Yasuji, to Kabushiki Kaisha Toshiba. Latching relay drive circuit for use in telephone sets. 4,645,882, 2-24-87, Cl. 379-387.000.

Nakayama, Yoshiaki, to Fuji Photo Film Co., Ltd. Image conversion apparatus for television signals. 4,635,101, 1-6-87, Cl. 358-21.00R.

Nakayama, Yoshiaki, to Fuji Photo Film Co., Ltd. Disk film projector. 4,647,167, 3-3-87, Cl. 353-110.000.

Nakayama, Yoshiaki: *See*—
Okada, Kazuo; and Nakayama, Yoshiaki, 4,691,252, Cl. 360-75.000.

Nakayama, Yoshiharu; and Ohnishi, Youichi, to Yamaha Hatsudoki Kabushiki Kaisha. Inline multiple cylinder engine for motorcycles. 4,714,061, 12-22-87, Cl. 123-195.00R.

Nakayama, Yoshiharu: *See*—
Fuchigami, Wataru; and Nakayama, Yoshiharu, 4,692,129, Cl. 474-148.000.

Nakayama, Yoshihiko; and Miyatake, Teruyoshi, to Hitachi, Ltd. Apparatus for detecting abnormality and limit of use of plain bearings. 4,658,643, 4-21-87, Cl. 73-119.00R.

Nakayama, Yoshihiko: *See*—
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, 4,653,163, Cl. 29-157.30R.
Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizumi, Kiyoshi; Kakizaki, Kumio; Nakayama, Wataru; Daikoku, Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshihiko, 4,678,029, Cl. 165-133.000.

Nakayama, Yoshiro, to Mitsubishi Denki Kabushiki Kaisha. Wire guide for electrode discharge machining. 4,686,344, 8-11-87, Cl. 219-69.00W.

Nakayama, Yuji: *See*—
Suzuki, Toshio; Saegusa, Takeshi; Takasu, Toshimitsu; Nakayama, Yuji; and Yamaguchi, Yutaka, 4,665,957, Cl. 141-39.000.

Nakayama, Yusho: *See*—
Otsuka, Nobuyuki; Kasuya, Atsuo; Nakayama, Yusho; Kumashiro, Masayuki; Furuya, Tamio; and Kaiho, Shigeo, 4,689,979, Cl. 72-57.000.

Nakayashiki, Susumu; Kashio, Jiro; and Harakawa, Takeshi, to Hitachi, Ltd. Local area network communication system. 4,672,607, 6-9-87, Cl. 370-88.000.

Nakayasu, Kazuo: *See*—
Tanaka, Jun; and Nakayasu, Kazuo, 4,672,127, Cl. 548-308.000.

Nakazato, Katsuo: *See*—
Tsuchiya, Hiroyoshi; Kurosawa, Toshiharu; Otsuka, Hirotaka; Maruyama, Yuuji; and Nakazato, Katsuo, 4,692,811, Cl. 358-282.000.

Nakazato, Kikuo: *See*—
Fukawa, Kazuniga; Bando, Kazuyoshi; Hatanaka, Yoshikazu; and Nakazato, Kikuo, 4,652,581, Cl. 514-418.000.

Nakazato, Kunihiro: *See*—
Uno, Kunihiko; Nakazato, Kunihiro; Nishigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mihara, Jiro; and Takai, Kiyoaki, 4,639,927, Cl. 373-84.000.

Nakazato, Morizo: *See*—
Okada, Fumio; Oba, Toshio; and Nakazato, Morizo, 4,670,309, Cl. 427-387.000.

Nakazato, Shinji; Uchida, Hideaki; Tanba, Nobuo; Gotoo, Nobuyuki; Onozawa, Kazunori; and Hiraishi, Atsushi, to Hitachi, Ltd. Semiconductor device. 4,672,416, 6-9-87, Cl. 357-46.000.

Nakazato, Shinji: *See*—
Uchida, Hideaki; Mitsumoto, Kinya; Yazawa, Yoshiaki; Nakazato, Shinji; and Odaka, Masanori, 4,682,200, Cl. 357-41.000.

Nakazato, Susumu, to Westinghouse Electric Corp. Control rod displacement. 4,711,756, 12-8-87, Cl. 376-327.000.

Nakazato, Yukitaka; Hashimoto, Kenji; and Taruki, Takashi, to Ricoh Company, Ltd. Automatic original sheet feeding apparatus. 4,696,463, 9-29-87, Cl. 271-176.000.

Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, to Hirose Electric Co., Ltd.; NEC Corporation; and Japan Aviation Elec. Cord clamping mechanism. 4,681,388, 7-21-87, Cl. 439-449.000.

Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, to Hirose Electric Co., Ltd.; NEC Corporation; and Japan Aviation Elec. Lock pin for mounting board-mount type connector on board. 4,681,389, 7-21-87, Cl. 439-557.000.

Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, to Japan Aviation Electronics Industry Limited; NEC Corp.; and Japan Aviation Elec. Industry Limited. Locking device for connector. 4,688,871, 8-25-87, Cl. 439-357.000.

Nakazawa, Akira; and Watanabe, Tooru, to Hirose Electric Co., Ltd. Electrical connector receptacle and process for manufacturing same. 4,699,595, 10-13-87, Cl. 439-676.000.

Nakazawa, Akira: *See*—
Matsuzaki, Shuichi; and Nakazawa, Akira, 4,668,040, Cl. 339-125.00R.
Uchiyama, Koji; Nakazawa, Akira; and Tanaka, Masao, 4,661,393, Cl. 428-200.000.
Yoshida, Yuji; Suzuki, Shigeo; Nakatani, Kazuo; Mukai, Yuji; Nakazawa, Akira; and Imoto, Takumi, 4,679,403, Cl. 62-114.000.

Nakazawa, Eiji, to Casio Computer Co., Ltd. Multi alarm timepiece. 4,652,140, 3-24-87, Cl. 368-74.000.

Nakazawa, Eiji, to Casio Computer Company, Ltd. Stop watch capable of indicating a plurality of split times. 4,657,405, 4-14-87, Cl. 368-110.000.
Nakazawa, Hajime: *See*—
Miyashita, Hiroichi; Nakazawa, Hajime; and Hisatsune, Masayuki, 4,663,279, Cl. 423-25.000.
Nakazawa, Hayashi; Nakao, Shouichi; Saito, Cyuichi; and Kawagoshi, Makoto, to Hitachi, Ltd.; and Hitachi Elevator Engineering & Service Ltd. Passenger conveyor. 4,674,619, 6-23-87, Cl. 198-331.000.
Nakazawa, Isao: *See*—
Yazuka, Hiroyuki; and Nakazawa, Isao, 4,658,405, Cl. 375-38.000.
Nakazawa, Kiyoshi: *See*—
Hamada, Hiroshi; Nakazawa, Kiyoshi; Take, Hiroshi; Kimura, Naofumi; and Funada, Fumiaki, 4,706,173, Cl. 362-341.000.
Nakazawa, Mitsunobu: *See*—
Nishimura, Yukuo; Asano, Toshiaki; Mizusawa, Nobutoshi; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,640,592, Cl. 350-96.320.
Nishimura, Yukuo; Kawakami, Eigo; Asano, Toshiaki; Haruta, Masahiro; Takagi, Hiroshi; Noma, Takashi; Mizusawa, Nobutoshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,685,766, Cl. 350-96.320.
Nakazawa, Takahiro: *See*—
Yoshino, Hiroshi; Tsuchiya, Yutaka; Kaneko, Takeru; Nakazawa, Takahiro; Ikeda, Masuhiro; Araki, Shin; Yamatsu, Kiyomi; Tachibana, Shinro; and Arakawa, Yoshihiro, 4,707,468, Cl. 514-16.000.
Nakazawa, Takashi: *See*—
Terada, Kimio; Mori, Michio; Goto, Yoichi; Nakazawa, Takashi; Muto, Kunio; and Usami, Shozo, 4,637,937, Cl. 426-570.000.
Nakazawa, Tamotsu, to Canon Kabushiki Kaisha. Image processing system. 4,680,641, 7-14-87, Cl. 358-257.000.
Nakazawa, Tamotsu: *See*—
Sugiyama, Yasuo; Hiraoka, Osamu; Nakazawa, Tamotsu; and Nakamura, Kenji, 4,643,939, Cl. 428-283.000.
Nakazawa, Toshihiko: *See*—
Kuribayashi, Masaki; Nakazawa, Toshihiko; and Kanbe, Junichiro, 4,709,995, Cl. 350-350.00S.
Nakazawa, Toshiyuki; and Izumi, Akio, to Fuji Electric Corporate Research and Development Co., Ltd. Method of discriminating colors of an object. 4,685,808, 8-11-87, Cl. 356-416.000.
Nakazeki, Tsugito; Nanami, Shoji; and Okada, Koichi, to NTN Toyo Bearing Co., Ltd. Controlled radial magnetic bearing device. 4,686,404, 8-11-87, Cl. 310-90.500.
Nakazono, Euji: *See*—
Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased; Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Euji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.
Nakazono, Hiroshi: *See*—
Murata, Seiichiro; Tateishi, Masaru; Yoshioka, Toshio; Kamei, Sakito; Nakazono, Hiroshi; and Yamawaki, Yoshiro, 4,660,491, Cl. 114-65.00R.
Nakazono, Kazushige: *See*—
Kagawa, Yoshimasa; and Nakazono, Kazushige, 4,669,066, Cl. 365-229.000.
Nakazono, Shuzo. Method of producing filler added in foods. 4,645,676, 2-24-87, Cl. 426-417.000.
Nakazono, Yutaka; and Mori, Kenji, to Nitto Electric Industrial Co., Ltd. Optically active hydroxyiodolactone. 4,687,863, 8-18-87, Cl. 549-302.000.
Nakazumi, Tadataka: *See*—
Hotate, Makoto; Kaneko, Tadashi; Nishikawa, Toshio; Nakazumi, Tadataka; and Takeuchi, Nobuo, 4,682,044, Cl. 290-40.00B.
Hotate, Makoto; Nishikawa, Toshio; Takeuchi, Kobuo; Okuno, Itaru; and Nakazumi, Tadataka, 4,691,677, Cl. 123-399.000.
Mamiya, Kiyotaka; Terashita, Toshiyuki; Okazaki, Katsumi; and Nakazumi, Tadataka, 4,669,439, Cl. 123-489.000.
Nakazyo, Kiyoshi: *See*—
Ishikawa, Takatoshi; and Nakazyo, Kiyoshi, 4,681,835, Cl. 430-386.000.
Kawagishi, Toshio; and Nakazyo, Kiyoshi, 4,639,413, Cl. 430-546.000.
Kawagishi, Toshio; and Nakazyo, Kiyoshi, 4,659,652, Cl. 430-558.000.
Nakos, Steven T.; and Lin, Samuel Q. S., to Loctite Corporation. Dual curing coating method for substrates with shadow areas. 4,699,802, 10-13-87, Cl. 427-54.100.
Nakos, Steven T.: *See*—
Klemarczyk, Philip; Nakos, Steven T.; and Lin, Samuel Q. S., 4,666,953, Cl. 522-34.000.
Lien, Qcheng S.; and Nakos, Steven T., 4,665,147, Cl. 528-15.000.
Lin, Samuel Q. S.; and Nakos, Steven T., 4,675,346, Cl. 522-39.000.
Nakousai, Keiko: *See*—
Kobayashi, Masatsune; Eida, Tsuyoshi; Koike, Shoji; and Nakousai, Keiko, 4,661,158, Cl. 106-22.000.
Nakov, Anton I.: *See*—
Atanassova, Ivanka A.; Haimova, Marieta A.; Chavdarova, Veselina B; Nakov, Anton I.; Petkov, Nedelcho G.; and Avramova, Ruska S., 4,711,956, Cl. 540-327.000.
Nakovammaisten Keskusliitto ry: *See*—
Jalava, Antti, 4,713,495, Cl. 178-2.00R.
Nakura, Yoshihiro: *See*—
Nakanowatari, Jun; Machida, Mitsuo; Okamoto, Toshiyuki; and Nakura, Yoshihiro, 4,640,581, Cl. 350-331.00R.
Nalbantoglu, Lynn K.: *See*—
Vanstone, Anthony E.; Maile, Graham K.; and Nalbantoglu, Lynn K., 4,656,305, Cl. 560-54.000.
Nalco Chemical Company: *See*—
Allenson, Stephan J.; and Wagner, Stephen D., 4,699,951, Cl. 525-194.000.
Bhattacharyya, Bhupati R.; and Dalsin, Philip D., 4,713,431, Cl. 526-207.000.
Bhattacharyya, Bhupati R.; Srivatsa, Sanjay R.; and Dwyer, Michael L., 4,715,962, Cl. 210-708.000.
Carr, Richard P.; and Corpuz, Marcos Y., 4,661,120, Cl. 44-57.000.
Carr, Richard P., 4,707,286, Cl. 252-75.000.
Chambers, Bruce C., 4,661,261, Cl. 210-698.000.
Cramm, Jeffrey R.; and Bailey, Kristy M., 4,698,404, Cl. 526-204.000.
Diep, Daniel V., 4,678,481, Cl. 55-4.000.
Dubin, Leonard, 4,676,910, Cl. 210-696.000.
Emmons, Daniel H., 4,710,303, Cl. 210-698.000.
Fong, Dodd W., 4,645,813, Cl. 526-247.000.
Fong, Dodd W., 4,647,381, Cl. 210-701.000.
Fong, Dodd W., 4,650,844, Cl. 526-260.000.
Fong, Dodd W.; and Kowalski, David J., 4,656,277, Cl. 544-399.000.
Fong, Dodd W., 4,657,679, Cl. 210-701.000.
Fong, Dodd W., 4,659,828, Cl. 544-399.000.
Fong, Dodd W., 4,676,911, Cl. 210-701.000.
Fong, Dodd W.; and Kowalski, David J., 4,678,840, Cl. 525-340.000.
Fong, Dodd W., 4,680,339, Cl. 525-54.110.
Fong, Dodd W., 4,703,092, Cl. 525-351.000.
Fong, Dodd W.; and Halverson, Ann M., 4,713,178, Cl. 210-734.000.
Giddings, David M.; and Williamson, Charles D., 4,678,591, Cl. 252-8.514.
Gross, Anthony E.; Christie, Richard D.; and Pinder, Thomas E., 4,710,285, Cl. 209-166.000.
Hunt, Barry E.; Herro, Harvey M.; Lee, Kyu-Hwa; and Mindick, Morris, 4,683,035, Cl. 204-1.00T.
Johnson, Donald A., 4,642,194, Cl. 210-699.000.
Johnson, Donald A., 4,711,724, Cl. 210-699.000.
Johnson, Kerrie A., 4,643,801, Cl. 162-164.100.
Kelly, John A.; Grattan, David A.; and Oberhofer, Alfred W., 4,657,785, Cl. 427-255.600.
Koeplin-Gall, Sandra; and Schild, Ronald H., 4,643,835, Cl. 210-754.000.
LaMarre, Thomas M.; and Martin, Cynthia H., 4,661,518, Cl. 514-528.000.
Lenderman, Gary L., 4,693,312, Cl. 166-279.000.
Martin, Cynthia H.; and LaMarre, Thomas M., 4,661,503, Cl. 514-372.000.
Martin, Cynthia H.; and LaMarre, Thomas M., 4,661,517, Cl. 514-515.000.
Meier, Daniel A.; and Groshans, Michael J., 4,705,703, Cl. 427-239.600.
Moran, James J.; and Boyes, Russell S., 4,683,152, Cl. 427-428.000.
Mouche, Richard J.; and Song, Peter, 4,681,687, Cl. 210-764.000.
Operhofer, Alfred W., 4,664,811, Cl. 210-673.000.
Owen, David O.; and Connelly, Lawrence J., 4,713,222, Cl. 423-122.000.
Phillips, Kenneth G., 4,668,715, Cl. 523-205.000.
Pierce, Claudia C.; Robinson, Robert S.; and Kneller, James F., 4,711,726, Cl. 210-701.000.
Rende, Dominic S.; and Breslin, Michael D., 4,657,946, Cl. 523-402.000.
Richardson, Paul F.; and Bhattacharyya, Bhupati R., 4,673,511, Cl. 210-734.000.
Richardson, Paul F.; Connelly, Lawrence J.; Fong, Dodd W.; and Kaesler, Ralph W., 4,704,209, Cl. 210-734.000.
Roe, William J., 4,666,741, Cl. 427-220.000.
Rose, Gerard R.; and Hurlock, John R., 4,655,934, Cl. 210-728.000.
Rose, Gerard R.; Kaesler, Ralph W.; and Fong, Dodd W., 4,683,066, Cl. 210-734.000.
Stuebner, Terry L., 4,655,936, Cl. 210-764.000.
Wetegrove, Robert L.; and Kaesler, Ralph W., 4,687,807, Cl. 524-827.000.
Wierzba, Robert B.; Snyder, Robert G.; and Kleefisch, Blaise H., 4,639,381, Cl. 427-156.000.
Young, Paul R.; Koutek, Mary E.; and Kelly, John A., 4,680,124, Cl. 210-697.000.
Nalepka, Paul: *See*—
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,678,168, Cl. 266-196.000.
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,697,274, Cl. 373-79.000.
Nalesnik, Theodore E., to Texaco Inc. Lubricating oil dispersant and viton seal additives. 4,636,322, 1-13-87, Cl. 252-51.50A.
Nalesnik, Theodore E.; and Cusano, Carmen M., to Texaco Inc. Dibasic acid lubricating oil dispersant and viton seal additives. 4,663,064, 5-5-87, Cl. 252-51.50A.
Nalesnik, Theodore E.; and Benfaremo, Nicholas, to Texaco Inc. Post-coupled mono-succinimide lubricating oil dispersant and viton seal additives. 4,699,724, 10-13-87, Cl. 252-51.50A.

nik, Theodore E.; and Benfaremo, Nicholas, to Texaco, Inc. coupled mono-succinimide lubricating oil dispersants and viton additives. 4,713,189, 12-15-87, Cl. 252-51.50A.
nik, Theodore E., to Texaco Inc. Dinscyanate acid lubricating oil persant and viton seal additives. 4,713,191, 12-15-87, Cl. 252-50A.
vajek, David; Kim, Jung T.; and McCurry, Lynn E., to Allied rporation. Aqueous battery with ($C_y F_x Cl_2)_n$ cathode. 4,695,522, 2-87, Cl. 429-206.000.
Company. *See*—
rockway, Charles E.; and Saeli, John J., 4,684,344, Cl. 433-81.000.
concavallo, Richard A., 4,678,576, Cl. 210-433.200.
concavallo, Richard A.; Baird, Peter K.; Mehra, Ravinder C.; and Rajguru, Sharad, 4,689,147, Cl. 210-232.000.
Zelyea, Robert G., 4,702,834, Cl. 210-321.780.
Lawson H.; and Sandford, William E., to Tri Tool Inc. Tube ractor drill jig. 4,646,413, 3-3-87, Cl. 29-402.030.
, John F. *See*—
ofianek, Jay K.; Nally, John F.; Rush, James H.; Fuss, Robert L.; Williams, John E.; and Ruckey, Allan M., 4,646,974, Cl. 239-585.000.
en, Eric F. Pet toilet. 4,660,506, 4-28-87, Cl. 119-1.000.
, Chul W. Internal combustion engine system. 4,638,635, 1-27-87, 60-716.000.
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ai, Akihiro; Egawa, Akira; and Kodaira, Takanori, to Canon abushiki Kaisha. Lens barrel driving apparatus in camera. 4,653,892 31-87, Cl. 354-400.000.
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ai, Akihiro. *See*—
Kodaira, Takanori; Egawa, Akira; and Namai, Akihiro, 4,671,639, Cl. 354-400.000.
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and, Henri, to Framatome & CIE. Autonomous assistance device r a safety valve. 4,671,319, 6-9-87, Cl. 137-492.500.
natame, Akio. *See*—
Onodera, Tamio; Namatame, Akio; Sato, Kimihiko; and Sumitani, Koji, 4,700,012, Cl. 585-481.000.
nazue, Hirotoshi. *See*—
Fujino, Kiyohiko; Namazue, Hiroto hi; Okuya, Shigetami; Tsutsumi, Shunsaku; Kobayashi, Satoru; and Shimizu, Kenichi, 4,700,186, Cl. 340-825.720.
Mochida, Haruo; and Namazue, Hirotoshi, 4,638,292, Cl. 340-63.000.
nba, Hideaki. *See*—
Kamei, Eiichi; and Namba, Hideaki, 4,638,778, Cl. 123-339.000.
Kamei, Eiichi; Namba, Hideaki; Takao, Mitsunori; Ohba, Masahiro; Yonekawa, Masao; and Kiyono, Masashi, 4,653,449, Cl. 123-478.000.
Kamei, Eiichi; Namba, Hideaki; and Ohba, Masahiro, 4,693,485, Cl. 280-6.00R.
Ohba, Masahiro; Sugimoto, Hiroshi; Kamiya, Toru; Yamazaki, Toru; Tanabe, Hidemichi; Hirano, Satoshi; Namba, Hideaki; Matsui, Katsumasa; and Miura, Hisahiro, 4,668,873, Cl. 307-9.000.
Sakai, Tuguyasu; Namba, Hideaki; and Ohba, Masahiro, 4,639,871 Cl. 364-431.100.
nba, Kenryo; Asami, Shigeru; Aoi, Toshiki; Takahashi, Kazuo; and Kuronwa, Akihiko, to TDK Corporation. Optical recording medium. 4,713,314, 12-15-87, Cl. 430-270.000.
nba, Masato. *See*—
Akiba, Yasuhiro; Namba, Masato; Kikuchi, Seiji; and Soejima, Hidenobu, 4,714,850, Cl. 310-49.00R.
mba, Mutsusuke; Shirasaki, Osamu; and Hirata, Tomohiko, to Daikin ndustries Ltd. Foamed articles of fluorocarbon resins. 4,650,815, 3-17-87, Cl. 521-77.000.
mba, Satoshi. *See*—
Sasaki, Kouichi; Tsudaka, Hideaki; Namba, Satoshi; Abe, Yuji; and Yoshinaga, Shinsuke, 4,647,178, Cl. 355-3.00R.
mba, Tadashige. *See*—
Ichida, Kozaburo; Nagira, Norichika; Murata, Mineo; and Namba, Tadashige, 4,704,167, Cl. 148-153.000.
mbe, Yoshiharu; Suzuki, Hiroshi; and Sugita, Kazuhiko, to Toyoda Koki Kabushiki Kaisha; and Namba, Yoshiharu. Spindle sock unit for surface grinding machine. 4,700,510, 10-20-87, Cl. 51-134.50R.
mba, Yuzaburo; and Kukisaki, Shigenari, to Eisai Co., Ltd. Washing apparatus. 4,635,665, 1-13-87, Cl. 134-167.00R.
mbu, Hiroaki. *See*—
Honma, Noriyuki; Nambu, Hiroaki; Yoshida, Isao; Higuchi, Hisayuki; and Yamaguchi, Kunihiko, 4,642,486, Cl. 307-463.000.
mbu, Kyojiro. *See*—
Hopkinson, James F.; and Nambu, Kyojiro, 4,707,822, Cl. 364-414.000.
mbu, Masao, to Nippon Oil Company, Limited. Process for preparing a hydrogel. 4,664,857, 5-12-87, Cl. 264-28.000.
mbu, Yutaka; Sugawara, Hitosi; and Saitoh, Yasuo, to Japan Tobacco & Salt Public Corporation, The. Process for the temperature control of a drying apparatus. 4,660,298, 4-28-87, Cl. 34-30.000.
mbudiri, Easwaran C. N.: *See*—
Jones, Howell A., Soderberg, John H.; Eckert, Alton B.; and Nambudiri, Easwaran C. N., 4,635,204, Cl. 364-464.000.
Kirschner, Wallace; Nambudiri, Easwaran C. N.; and Patterson, Douglas H., 4,706,215, Cl. 364-900.000.
Namdari, Bahram. Nutcracker. 4,690,048, 9-1-87, Cl. 99-575.000.
Namekawa, Koroku, to Aloka Co., Ltd. Ultrasonic blood flow imaging method and apparatus. 4,641,668, 2-10-87, Cl. 128-663.000.
Namekawa, Kouroku, and Harada, Akimitsu, to Aloka Co., Ltd. Ultrasonic Doppler diagnostic device. 4,651,742, 3-24-87, Cl. 128-663.000.
Namekawa, Kouroku; and Harada, Akimitsu, to Aloka Co., Ltd. Ultrasonic Doppler diagnostic device. 4,651,745, 3-24-87, Cl. 128-663.000.
Namekawa, Satoshi. *See*—
Yamada, Takahiro; Namekawa, Satoshi; Yoshino, Eiji; and Matsuda, Yasumasa, 4,638,326, Cl. 346-75.000.
Namensen, Erland. *See*—
Johansson, Arne; and Namensen, Erland, 4,715,911, Cl. 156-69.000.
Namikawa, Kazuhira; Hamaguchi, Toshiaki; Nakamura, Mutsuaki; and Kuroda, Akio, to Victor Company of Japan, Ltd. High density information records made of conductive resin compositions comprising inorganic power stabilizers. 4,639,908, 1-27-87, Cl. 369-288.000.
Namikawa, Kazuhira. *See*—
Hamaguchi, Toshiaki; Namikawa, Kazuhira; Nakamura, Mutsuaki; Kuroda, Akio; and Akai, Toshio, 4,646,284, Cl. 369-276.000.
Namiki, Akira. *See*—
Ookubo, Takeshi; Shiraishi, Motoatsu; Namiki, Akira; and Tazou, Ken, 4,688,668, Cl. 198-621.000.
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mutsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,658,626, Cl. 72-405.000.
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,682,685, Cl. 198-621.000.
Namiki, Junji, to NEC Corporation. TDMA communications apparatus having adapuve burst duration. 4,685,672, 8-11-87, Cl. 370-95.000.
Namiki, Junji, to NEC Corporation. One frequency repeater for a digital microwave radio system with cancellation of transmitter-to-receiver interference. 4,701,935, 10-20-87, Cl. 375-4.000.
Namiki, Masayuki; Kamiya, Masaaki; Kojima, Yoshikazu; and Tanaka, Kojiro, to Kabushiki Kaisha Daini Seikosha. Thermosensitive semiconductor device using Darlington circuit. 4,639,755, 1-27-87, Cl. 357-28.000.
Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko, to Takemoto Yushi Kabushiki Kaisha. Lignan compound. 4,649,206, 3-10-87, Cl. 549-435.000.
Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko, to Takemoto Yushi Kabushiki Kaisha. Method of producing phenol type natural antioxidative materials from processed sesame seed products. 4,708,820, 11-24-87, Cl. 252-398.000.
Namiki Precision Jewel Co., Ltd.: *See*—
Nakatsuka, Hisayoshi, 4,637,009, Cl. 369-147.000.
Nakatsuka, Hisayoshi, 4,644,518, Cl. 369-146.000.
Namiki, Tetsuro; Furuse, Masayasu; Kuroyanagi, Yoshimitsu; and Miyata, Teruo, to Koken Co., Ltd. Surfactant composed of acylated collagen or acylated gelatine and a production process thereof. 4,714,758, 12-22-87, Cl. 530-354.000.
Namiki, Yasuomi; and Arai, Koji, to Victor Company of Japan, Ltd. Delay time adjusting system for video signal reproducing apparatus having heads scanning across multiple tracks. 4,672,469, 6-9-87, Cl. 358-312.000.
Namiki, Yasuomi; and Kawasaki, Satoshi, to Victor Company of Japan, Ltd. Video signal recording and/or reproducing apparatus having a function of carrying out assembled recordings. 4,673,991, 6-16-87, Cl. 360-14.100.
Namiki, Yasuomi, to Victor Company of Japan, Ltd. Magnetic head switching circuit for magnetic recording and reproducing apparatus. 4,700,242, 10-13-87, Cl. 360-68.000.
Namiki, Yasuomi, to Victor Company of Japan, Ltd. Noise reduction circuit for reducing pulse noise in audio signal reproduced from a recording medium. 4,704,642, 11-3-87, Cl. 360-64.000.
Namiki, Yasuomi. *See*—
Ishigaki, Yukinobu; Namiki, Yasuomi; Fujiwara, Hisashige; and Hirohashi, Kazutoshi, 4,698,693, Cl. 358-310.000.
Namikoshi, Hajime. *See*—
Tsuda, Kenji; and Namikoshi, Hajime, 4,707,187, Cl. 106-93.000.
Namur, Marc, to Schutz-Werke GmbH & Co. KG. Adjustment fixture for wishbone booms board-sailing devices. 4,640,211, 2-3-87, Cl. 114-97.000.
Nanami, Shoji. *See*—
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Iwasaki, Shosuke; Abiko, Tetsuo; Hagiwara, Michiki; and Nanba, Keizo, 4,636,356, Cl. 420-532.000.

Sugiyama, Yoshihiko; Nanba, Keizo; Hagiwara, Michiki; Aoki, Takeshi; Iwasaki, Shosuke; and Abiko, Tetsuo, 4,673,551, Cl. 420-535.000.

Nanba, Satoshi: *See*—
Shimizu, Tsutomu; Tarumoto, Kouji; and Nanba, Satoshi, 4,678,738, Cl. 430-320.000.
Tarumoto, Kouji; Miyata, Jun; Yagii, Koji; and Nanba, Satoshi, 4,636,285, Cl. 204-38.500.

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Nanba, Yoichi: *See*—
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Yahagi, Masakichi; Obitsu, Takeo; Igaki, Tetsuo; Horisawa, Kazuyuki; Nanbu, Morio; Kinoshita, Kimiaki; and Manaka, Sumio, 4,668,967, Cl. 346-221.000.
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Nance, J. Kregg. Stringed instrument finger positioning guide. 4,712,464, 12-15-87, Cl. 84-485.00R.

Nance, Kenneth H., to BP Chemicals Limited. Additive for inhibiting respiration of and promoting desiccation of crops. 4,643,754, 2-17-87, Cl. 71-1.000.

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Fredericks, Edward C.; and Nanda, Madan M., 4,640,738, Cl. 156-656.000.

Nanda, Navnit K.: *See*—
Breuer, Melvin A.; and Nanda, Navnit K., 4,672,307, Cl. 324-73.00R.

Nandi, Satyendra P.: *See*—
Babu, Suresh P.; Anderson, Gerald L.; and Nandi, Satyendra P., 4,699,632, Cl. 48-197.00R.

Nandoh, Kenji: *See*—
Mutoh, Nobuyoshi; Sakai, Keijiro; Suzuki, Toshio; Ueda, Akiteru; Nandoh, Kenji; and Okajima, Ikuo, 4,688,162, Cl. 363-80.000.

Nandy, Samir K.: *See*—
Unrug, Konstanty F.; Thompson, Edward D.; and Nandy, Samir K., 4,693,638, Cl. 405-259.000.

Nanishi, Kiyoshi: *See*—
Murase, Heihachi; and Nanishi, Kiyoshi, 4,636,324, Cl. 252-70.000.

Naniwa, Hisamoto: *See*—
Yamada, Hideo; Ichiki, Shigemi; Naniwa, Hisamoto; Uchida, Susumu; Kadokura, Kenji; Tsunoda, Susumu; and Nakajima, Kunio, 4,674,127, Cl. 383-6.000.

Naniwa Products Co., Ltd.: *See*—
Kawai, Kazuo; Kawai, Sumikazu; and Katashima, Seiji, 4,637,450, Cl. 164-200.000.
Kawai, Kazuo; Kawai, Sumikazu; and Katashima, Seiji, 4,660,709, Cl. 198-339.100.

Nanjo, Toshio; and Tomizawa, Fumio, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Apparatus for automatically charging scrap into an arc furnace. 4,694,465, 9-15-87, Cl. 373-81.000.

Nanjoh, Hideo, to Omron Tateisi Electronics Co. Component mounting device. 4,685,035, 8-4-87, Cl. 361-429.000.

Nanjyo, Hirotoshi; and Suzuki, Hidetoshi, to Kokusan Denki Co. Ltd. Electronic governor for an internal combustion engine. 4,669,436, 6-2-87, Cl. 123-357.000.

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Yamaura, Junichi; Matsui, Tooru; Nankai, Shiro; and Toyoguchi, Yoshinori, 4,668,594, Cl. 429-194.000.

Nann, Eberhard; and Bernardi, Walter, to Hagen Batterie AG. Sheet material for the production of separator pockets for lead accumulators. 4,657,799, 4-14-87, Cl. 428-77.000.

Nanne, Johannes M.: *See*—
van Erp, Willibrord A.; Nanne, Johannes M.; and Post, Martin F. M., 4,637,993, Cl. 502-242.000.

Nannen, William G. Rotary lawn mower. 4,704,848, 11-10-87, Cl. 56-17.200.

Nanni, Peter: *See*—
Kwitkowski, Peter A.; Nanni, Peter; Missele, Carl; O'Shea, Norman E.; and Pirih, Anthony M., 4,703,289, Cl. 333-1.100.

Nannig, Urban R.: *See*—
Waugh, Robert E.; Nannig, Urban R.; and Rockwood, Clyde R., 4,643,790, Cl. 156-242.000.
Waugh, Robert E.; Nannig, Urban R.; and Rockwood, Clyde R., 4,645,556, Cl. 156-242.000.
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Nannini, Dante: *See*—
Beconcini, Paolo; Caccivio, Giuseppe; and Nannini, Dante, 4,665,720, Cl. 66-149.00S.

Nannini, Luciano: *See*—
Aiuola, Franco; and Nannini, Luciano, 4,650,450, Cl. 493-179.000.
Aiuola, Franco; and Nannini, Luciano, 4,669,249, Cl. 53-234.000.

Nanno, Ikuo; Morimoto, Yasuaki; Hoshi, Seiji; Wakui, Shinji; and Hoshi, Hideo, to Seiko Instruments & Electronics Ltd. Objective lens apparatus. 4,650,294, 3-17-87, Cl. 350-484.000.

Nanometrics Incorporated: *See*—
Ohtsuki, Mitsuo; and Denney, Lloyd W., 4,663,525, Cl. 250-307.000.

Nanopoulos, Dinah W.: *See*—
Gasc, Jean-Claude; Nedelec, Lucien; Rettien, Claude; and Nanopoulos, Dinah W., 4,699,907, Cl. 514-232.000.

Nanri, Seiji: *See*—
Nishida, Fumihiko; Nanri, Seiji; and Yahata, Makoto, 4,714,947, Cl. 355-95.000.

Nanushyan, Sergei R.: *See*—
Fedorov, Svyatoslav N.; Egorova, Eleonora V.; Nanushyan, Sergei R.; Chernyshev, Evgeny A.; Spiridonov, Oleg P.; Benenson, Igor L.; Polivanov, Alexandr N.; Shapatin, Anatoly S.; and Karavaev, Alexandr A., 4,647,282, Cl. 623-4.000.

Nanz, Dieter; and Doersam, Wolfgang. Butterfly valve. 4,653,725, 3-31-87, Cl. 251-306.000.

Nanz, Hans-Hermann: *See*—
Heinemann, Otto; Nanz, Hans-Hermann; Milewski, Gunter; and Schroder, Norbert, 4,663,031, Cl. 209-427.000.

Naoe, Masahiko; and Ishibashi, Shozo, to Konishiroku Photo Industry Co., Ltd. Method of ion beam generation and an apparatus based on such method. 4,690,744, 9-1-87, Cl. 204-192.110.

Naoe, Masahiko. *See*—
Kadokura, Sadao; Honjo, Kazuhiko; Tomie, Takashi; and Naoe, Masahiko, 4,666,768, Cl. 428-611.000.

Naohara, Junsuke; Horie, Toshiki; and Kino, Toru, to Japan Styrene Paper Corporation. Method for the preparation of a foamed article of a polyolefin resin. 4,674,976, 6-23-87, Cl. 432-11.000.

Naoi, Keiji: *See*—
Isono, Keinosuke; and Naoi, Keiji, 4,634,447, Cl. 623-66.000.
Isono, Keinosuke; and Naoi, Keiji, 4,643,715, Cl. 604-4.000.

Naoi, Mitsuaki; Miyazawa, Azuma; and Arai, Hideharu, to Mitsumi Electric Co., Ltd. Floppy disc recording and/or reproducing apparatus having a loading mechanism for loading a cartridge which accomodates a floppy disc. 4,669,004, 5-26-87, Cl. 360-99.000.

Naoi, Takashi; Kakimi, Fujio; and Mikami, Takeshi, to Fuji Photo Film Co., Ltd. Preparation of electrostatographic encapsulated toner material improved in powder characteristics. 4,699,866, 10-13-87, Cl. 430-138.000.

Naoi, Takashi; Fujioka, Takashi; Okamura, Hisashi; and Satake, Masaki, to Fuji Photo Film Co., Ltd. Silver halide photographic material. 4,710,456, 12-1-87, Cl. 430-564.000.

Naoi, Takashi: *See*—
Yokoyama, Shigeki; Inayama, Takayuki; Sugimoto, Naohiko; and Naoi, Takashi, 4,677,050, Cl. 430-536.000.

Naora, Hirokazu: *See*—
Onuki, Takashi; Naora, Hirokazu; and Nakamura, Asao, 4,658,055, Cl. 562-503.000.

Naoumidis, Aristides; Neumeister, Herbert; Schirbach, Arno; Struck, Bernd D.; and Triefenbach, Dieter, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Process for production of a tungsten carbide-activated electrode. 4,702,784, 10-27-87, Cl. 156-89.000.

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Andrea, Johan; Lubchenko, Eugene; and Bradley, Ralph H., 4,679,069, Cl. 358-60.000.
Erski, Richard, 4,692,802, Cl. 358-139.000.
Rumbolt, Robin B.; McIntyre, William R.; and Goodson, Larry E., 4,703,359, Cl. 358-194.100.

Napadow, Stanley C., to Protectaire Systems Co. Spray booth. 4,700,615, 10-20-87, Cl. 98-115.200.

Napco Industries, Inc.: *See*—
White, Bernard C., 4,689,911, Cl. 42-105.000.

NAPCO Scientific Company: *See*—
Swan, Alan J., 4,668,854, Cl. 219-273.000.

Napco Security Systems, Inc.: *See*—
Gaudio, Raymond J., 4,667,183, Cl. 340-501.000.

Napholcz, Johannes: *See*—
Hunold, Klaus; Lipp, Alfred; Reinmuth, Klaus; Arnold, Peter; and Napholcz, Johannes, 4,687,655, Cl. 423-344.000.

Naphs, Inc.: *See*—
LaRue, Philip R., 4,680,995, Cl. 81-437.000.

Napier, Brian A.; and Fishe, Maurice J., to Coal Industry (Patents) Limited. Fluidized beds. 4,711,039, 12-8-87, Cl. 34-57.00A.

Napier, James J.; and Griffith, Ronald C., to Pennwalt Corporation. 6-phenyl-1,2-3,4,4a,5-6,10b-octahydrobenz(h)isoquinolines useful for treating depression. 4,678,791, 7-7-87, Cl. 514-290.000.

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Maher, Joseph A.; Vowles, E. John; Napoli, Joseph D.; Zafiropoulo, Arthur W.; and Miller, Mark W., 4,715,921, Cl. 156-345.000.

Napolitano, James E.: *See*—
Bolton, Theodore S.; and Napolitano, James E., 4,651,959, Cl. 248-208.000.
Lang, Richard D.; and Napolitano, James E., 4,633,680, Cl. 62-507.000.

Napolitano, Michael J. Roofing tool. 4,651,373, 3-24-87, Cl. 7-170.000.

appholz, Tibor A.; Lubin, Mark; and Valenta, Harry L., Jr., to Telectronics N.V. Metabolic-demand pacemaker and method of using the same to determine minute volume. 4,702,253, 10-27-87, Cl. 128-419.0PG.

aqih, Isam. Device for alphanumeric arabic display for printing. 4,647,924, 3-3-87, Cl. 340-756.000.

aqub, Hussein M.: *See*—
Ho, Vu Q.; Nentwich, Heinz J.; and Naqub, Hussein M., 4,680,854, Cl. 29-576.00B.

ara, Akio; Yazawa, Akio; and Akiyama, Yosinori, to Nippondenso Co., Ltd. Air-fuel mixture heating device for internal combustion engine. 4,651,702, 3-24-87, Cl. 123-549.000.

ara, Akio: *See*—
Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoto; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, 4,685,437, Cl. 123-549.000.

ara, Kiyoshi; and Honda, Susumu, to Takeda Chemical Industries, Ltd. Production of monomeric human γ-interferon. 4,686,284, 8-11-87, Cl. 530-351.000.

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Yasufuku, Yoshitaka; Nara, Masaji; and Akutsu, Shigeru, 4,652,496, Cl. 428-425.900.
Yasufuku, Yoshitaka; Nara, Masaji; and Akutsu, Shigeru, 4,684,572, Cl. 428-323.000.

ara, Takashi: *See*—
Daigo, Yasuhito; Horibe, Takashi; Inage, Kengo; Naruse, Shigeyasu; Nara, Takashi; Okamoto, Yoshizo; and Yamamoto, Hironobu, 4,659,384, Cl. 106-35.000.
Hatano, Takashi; Nara, Takashi; Kawato, Yutaka; and Okada, Sumie, 4,698,a01, Cl. 270-58.000.
Takahashi, Atsuhisa; Nara, Takashi; Murayama, Masami; and Takeichi, Hiroaki, 4,661,946, Cl. 370-58.000.

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Suzuki, Yoshihiro; Satoh, Nobuhiro; Wajima, Motoyo; Narahara, Toshikazu; and Shimazaki, Takeshi, 4,661,417, Cl. 428-607.000.

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Tanaka, Hitoshi; Kakizaki, Yukio; Iwata, Hiromitsu; and Naraki, Tsuyoshi, 4,655,584, Cl. 355-53.000.

arang, Rajendra K. Oil and gas water heater. 4,664,096, 5-12-87, Cl. 126-271.000.

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arang, Subash C.: *See*—
Tesoro, Giuliana C.; Sastri, Vinod R.; and Narang, Subash C., 4,656,235, Cl. 526-262.000.

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arasimhan, Rajagopalan: *See*—
Childs, Ernest A.; and Narasimhan, Rajagopalan, 4,713,254, Cl. 426-582.000.

arath, William R.: *See*—
Caswell, Michael L.; Corr, James J.; Dobrovolny, Mark S.; Lander, Lynn H.; Narath, William R.; and Theiler, Richard F., 4,695,395, Cl. 252-121.000.
Dobrovolny, Mark S.; Corr, James J.; and Narath, William R., 4,663,070, Cl. 252-121.000.

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Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kiyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; and Hishinuma, Yukio, 4,653,998, Cl. 431-79.000.

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Wang, Bu-Chin; and Narayan, Shankar S., 4,672,670, Cl. 381-47.000.

arayan, Thirumurti, to BASF Corporation. Isocyanate terminated quasi-prepolymers useful for preparing urethane-group-containing polyisocyanurate foams having low friability. 4,636,530, 1-13-87, Cl. 521-159.000.

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Narayanan, Krishnamoorthy: *See*—
Dabisch, Wolfgang H.; Kung, Peter; Muller, Siegfried R.; and Narayanan, Krishnamoorthy, 4,695,528, Cl. 430-290.000.

Narayanan, Sarukkai R. Multi-modal educational and entertainment system. 4,668,194, 5-26-87, Cl. 434-338.000.

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Haugwitz, Rudiger D.; Narayanan, Venkatachala L.; Zalkow, Leon H.; Deutsch, Howard M.; and Gelbaum, Leslie, 4,670,461, Cl. 514-410.000.

Narazaki, Norio: *See*—
Nakamura, Hiromi; Takahashi, Takehiko; Narazaki, Norio; Yamamoto, Kazuo; and Sayama, Norio, 4,653,268, Cl. 60-39.050.

Narbel, Philippe M.: *See*—
Rimbault, Christian G.; and Narbel, Philippe M., 4,665,202, Cl. 549-402.000.

Narcisse, Bernadine O. Out-of-range personnel monitor and alarm. 4,675,656, 6-23-87, Cl. 340-539.000.

Nard, Michael E.: *See*—
Frichauf, William J.; Janssen, Donovan M.; Kirton, Alan J.; Nard, Michael E.; and Rose, Leroy, 4,707,753, Cl. 360-106.000.

Narda Microwave Corporation, The: *See*—
Aslan, Edward E., 4,634,968, Cl. 324-95.000.

Nardella, Massimiliano, to F.B.M. Hudson Italiana S.p.A. Vacuum blade for a hollow type fan and process. 4,692,100, 9-8-87, Cl. 416-232.000.

Nardi, Alain; and Simier, Jean-Noel, to Societe Chimique des Charbonnages-CdF chimie. Process for reducing the chances of ignition and explosion due to the decomposition of high-pressure industrial process gases. 4,690,800, 9-1-87, Cl. 422-40.000.

Nardi, Dante; Leonardi, Amedeo; and Bianchi, Giorgio, to Recordati S.A. Antihypertensive esters of 1,4-dihydro-2,6-dimethyl-3-(alkoxycarbonyl or alkoxyalkoxycarbonyl)-4-(sub.. ·uted phenyl)-pyridine-5-carboxylic acid. 4,634,712, 1-6-87, Cl. 514-356.000.

Nardi, Dante; Leonardi, Amedeo; Motta, Gianni; and Cazzulani, Pietro, to Recordati S. A. Chemical and Pharmaceutical Company. Antianaphylactic and antibronchospastic piperazinyl-(N-substituted phenyl)-carboxamides, compositions and use. 4,675,319, 6-23-87, Cl. 514-234.000.

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Narduzzi, Franco. Cutoff valve, particularly for the cutoff of high-temperature fluids. 4,667,920, 5-26-87, Cl. 251-315.000.

Narikawa, Shiro: *See*—
Kojima, Yoshimi; Narikawa, Shiro; Hayakawa, Takashi; Nojima, Hideo; Imada, Eiji; Matsuyama, Tosharo; and Ehara, Shaw, 4,666,816, Cl. 430-128.000.

Narimatsu, Akihiro: *See*—
Okushima, Hiromi; Narimatsu, Akihiro; Kobayashi, Makio; Furuya, Rikizo; and Kitada, Yoshimi, 4,661,484, Cl. 514-242.000.

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Himuro, Kiyoshi; Narimatsu, Akihisa; Mibu, Katsutoshi; and Yoshioka, Takamoto, 4,663,588, Cl. 324-207.000.

Nario, Susumu: *See*—
Kanda, Hisashi; Nario, Susumu; Morifuji, Kazuhiko; Kawada, Yuzo; Sakai, Takashi; Kawada, Takeshi; Shimada, Katsura; and Tsuneda, Mitsuo, 4,670,953, Cl. 28-185.000.

Narisawa, Nobuyuki: *See*—
Kimura, Shigehiro; Ono, Takashi; and Narisawa, Nobuyuki, 4,690,123, Cl. 123-612.000.

Narishige Corporation Limited: *See*—
Narishige, Eiichi; and Yoneyama, Shinji, 4,679,976, Cl. 414-4.000.
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Narishige, Eiichi; and Yoneyama, Shinji, to Narishige Scientific Instrument Laboratory, Ltd.; and Narishige Corporation Limited. Manipulator usable for a glass electrode or the like. 4,679,976, 7-14-87, Cl. 414-4.000.

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Komuro, Matahiro; Kozono, Yuzo; Yasuda, Takeshi; Narishige, Shinji; Hanazono, Masanobu; and Kuroda, Tetsuro, 4,698,273, Cl. 428-535.000.

Narishima, Wataru; and Takeuchi, Shoji, to Texas Instruments Incorporated. Casing structure of portable electronic appliance. 4,703,160, 10-27-87, Cl. 235-1.00D.

Narisoko, Minoru; and Kiyotomo, Mikio, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Waste product feeder. 4,702,177, 10-27-87, Cl. 110-110.000.

Narisoko, Minoru; and Inoue, Satoshi, to Ishikawajima-Harima Heavy Industries Co., Ltd. Method of catalystless denitrification for fluidized bed incinerators. 4,708,067, 11-24-87, Cl. 110-245.000.

Narita, Akira: *See*—
Iwahashi, Hiroshi; Asano, Masamichi; and Narita, Akira, 4,692,834, Cl. 361-91.000.
Iwahashi, Hiroshi; Asano, Masamichi; Momodomi, Masaki; Minagawa, Hidenobu; Suzuki, Kazuto; and Narita, Akira, 4,697,101, Cl. 307-452.000.

Narita, Fujtaki; and Tanaka, Sumio, to Ricoh Company, Ltd. VTR system. 4,636,879, 1-13-87, Cl. 360-72.200.
Narita, Fujtaki, to Ricoh Company, Ltd. Head supporting structure. 4,658,316, 4-14-87, Cl. 360-109.000.
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, to Toyama Chemical Co., Ltd. 4-oxo-1,4-dihydronicotinic acid derivatives, salts thereof, and antibacterial agents containing the same. 4,698,352, 10-6-87, Cl. 514-339.000.
Narita, Hirokazu: *See*—
Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Konishi, Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Tai, Masaru; Watanabe, Yasuo; and Saikawa, Isamu. 4,673,738, Cl. 540-222.000.
Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu. 4,704,459, Cl. 546-123.000.
Narita, Hiroshi: *See*—
Arima, Keizi; Ueda, Yujiro; Yoshida, Toru; and Narita, Hiroshi. 4,651,976, Cl. 266-44.000.
Awano, Yoshiyuki; and Narita, Hiroshi. 4,713,020, Cl. 439-267.000.
Hirotsu, Tetsuji; Kiwaki, Hisakatsu; Nakamura, Kiyoshi; Narita, Hiroshi; Kasai, Syozi; Kimura, Akira; and Tsutsui, Yoshio. 4,701,682, Cl. 318-52.000.
Murata, Toyo-o; Narita, Hiroshi; Shigeyama, Yukinori; and Nishikawa, Mazumi. 4,688,772, Cl. 266-158.000.
Suzuki, Masato; Narita, Hiroshi; Okamatsu, Shigetoshi; and Abe, Kingo. 4,675,799, Cl. 363-58.000.
Narita, Katsushi: *See*—
Ohta, Hiromi; Ogawa, Shinji; Kajikawa, Yosiharu; Fukumura, Keiichi; Tsuchiya, Kiyomitsu; Kittaka, Kiyoshi; and Narita, Katsushi. 4,707,999, Cl. 62-474.000.
Narita, Katsuyuki, to Nissan Motor Co., Ltd. Rack and pinion steering gear. 4,663,980, 5-12-87, Cl. 74-422.000.
Narita, Kazuo: *See*—
Taya, Akira; Narita, Kazuo; Hagiwara, Yasuhiko; and Hatakeyama, Keiji. 4,663,567, Cl. 313-487.000.
Narita, Kenichi: *See*—
Shimizu, Senzo; Nomura, Isao; and Narita, Kenichi. 4,702,859, Cl. 252-511.000.
Narita, Kiichi: *See*—
Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke; and Fujimoto, Takahiko. 4,637,453, Cl. 164-468.000.
Ayata, Kenzo; Narita, Kiichi; Mori, Takasuke; and Fujimoto, Takahiko. 4,671,335, Cl. 164-468.000.
Narita, Kinichiro: *See*—
Naitou, Masaru; Yoshikawa, Masatake; and Narita, Kinichiro. 4,650,652, Cl. 423-21.100.
Narita, Mitsuo: *See*—
Hiramoto, Tatsumi; Iwai, Ikuo; Ohyama, Masachika; and Narita, Mitsuo. 4,704,346, Cl. 430-311.000.
Narita, Ryuuho; and Imai, Masahiro, to Kabushiki Kaisha Toshiba. Timer. 4,644,571, 2-17-87, Cl. 377-56.000.
Narita, Ryuuho; and Imai, Masahiro, to Kabushiki Kaisha Toshiba. Timing method and apparatus. 4,671,668, 6-9-87, Cl. 368-10.000.
Narita, Ryuuho: *See*—
Aoshima, Terutaka; Asahi, Morio; Imai, Masahiro; and Narita, Ryuuho. 4,687,910, Cl. 219-506.000.
Asahi, Morio; Aoshima, Terutaka; Narita, Ryuuho; and Imai, Masahiro. 4,644,137, Cl. 219-497.000.
Kojima, Mitsuhiro; Asahi, Morio; Narita, Ryuuho; and Imai, Masahiro. 4,674,890, Cl. 368-107.000.
Yamashita, Kiyoshi; Aoshima, Terutaka; Narita, Ryuuho; and Imai, Masahiro. 4,695,710, Cl. 219-506.000.
Narita, Seiichi: *See*—
Ota, Kazuomi; Kato, Minoru; Narita, Seiichi; and Moriya, Mitutoshi. 4,649,282, Cl. 250-574.000.
Narita, Shinichi: *See*—
Kawagishi, Yoji; Narita, Shinichi; Kiriu, Takashi; and Uomoto, Kenji. 4,656,112, Cl. 430-110.000.
Narita, Toshihide; Yamada, Masatoshi; and Yasuda, Eiichi, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho; and Kabushiki Kaisha Toyota Chuo Kenkyusho. Revolution controller for a single power plant in cargo-handling vehicles. 4,675,827, 6-23-87, Cl. 364-478.000.
Narita, Toshiroo: *See*—
Hokari, Sadao; Hori, Takamasa; Komuro, Katsu; Hatakeyama, Takanobu; Narita, Toshiroo; Katayama, Yasunori; and Arahori, Noboru. 4,661,757, Cl. 318-798.000.
Narita, Yasuhide; Shirai, Noboru; Kohro, Chihaya; and Hosono, Masami. Wheel cover mounting. 4,679,861, 7-14-87, Cl. 301-37.00P.
Narita, Yoshinori; and Kato, Takashi, to NGK Spark Plug Co., Ltd. Heat-insulated port liner arrangement and method of fabrication. 4,676,064, 6-30-87, Cl. 60-272.000.
Narita, Yuji: *See*—
Sakai, Toshihiko; and Narita, Yuji. 4,649,858, Cl. 118-697.000.
Narita, Yukio: *See*—
Aburaki, Shimpei; Narita, Yukio; Okumura, Jun; Naito, Takayuki; and Walker, Donald G., 4,659,812, Cl. 540-222.000.
Narita, Yuuki: *See*—
Seki, Akira; Narita, Yuuki; Aso, Yoshio; and Nagata, Shunro. 4,676,964, Cl. 423-335.000.
Naritomi, Yasuhisa; Takahashi, Hiroshi; and Shiba, Keisuke, to Fuji Photo Film Co., Ltd. Method for making negative working O-quinone diazide containing dry planographic printing plate utilizing multiply light exposure, development and basic treatment. 4,690,886, 9-1-87, Cl. 430-303.000.
Narjes, Ferdinand, to Siemens Aktiengesellschaft. Data transmission facility. 4,711,976, 12-8-87, Cl. 178-2.00C.
Narr, Benthold: *See*—
Nickl, Josef; Muller, Erich; Narr, Benthold; Ballhause, Helmut; and Haarmann, Walter. 4,678,792, Cl. 514-307.000.
Narr, Berthold: *See*—
Roch, Josef; Muller, Erich; Narr, Berthold; Nickl, Josef; Haarmann, Walter; and Weisenberger, Johannes M., 4,690,923, Cl. 514-222.000.
Roch, Josef; Heckel, Armin; Nickl, Josef; Muller, Erich; Narr, Berthold; Zimmermann, Rainer; and Weisenberger, Johannes, 4,714,698, Cl. 514-212.000.
Nartron Corporation: *See*—
Ingraham, Ronald D.; and Dolph, Darrel A., 4,672,278, Cl. 318-283.000.
Narue, Atsushi; Saitoh, Shigeru; and Maruyama, Tomoyuki, to Fuji Kiko Company, Limited. Universal joint yoke. 4,702,722, 10-27-87, Cl. 464-93.000.
Narui, Fumio: *See*—
Endoh, Kenji; Narui, Fumio; Sugiyama, Kazuhiro; Hara, Kazuya; and Shimazaki, Tatsuo, 4,668,314, Cl. 156-64.000.
Narui, Hiroshi; and Shinohara, Terumi, to Oike Industrial Co., Ltd. Stamping foil. 4,687,680, 8-18-87, Cl. 427-38.000.
Narui, Mamoru: *See*—
Nakagawa, Tatsushi; Narui, Mamoru; and Sakanaka, Yasuhiro. 4,663,396, Cl. 525-344.000.
Narui, Satoshi: *See*—
Kawakami, Shigenobu; Matsuzaka, Eiichi; Narui, Satoshi; and Takahashi, Naoya. 4,661,165, Cl. 106-311.000.
Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Matsuzaka, Eiichi; and Narui, Satoshi. 4,642,730, Cl. 361-315.000.
Takahashi, Naoya; Endo, Keiji; Matsuzaka, Eiichi; Narui, Satoshi; and Sato, Atsushi. 4,686,548, Cl. 503-213.000.
Naruke, Kiyomi, to Kabushiki Kaisha Toshiba. Method of making implanted device regions in a semiconductor using a master mask member. 4,675,981, 6-30-87, Cl. 29-576.00B.
Naruki, Toshimasa; and Goto, Toshihisa, to Mitsubishi Denki Kabushiki Kaisha. Operating mechanism for small portable cassette tape player. 4,712,145, 12-8-87, Cl. 360-96.500.
Naruki, Yukio; and Yasuda, Takeshi, to Casio Computer Co., Ltd. Thermal printer control device. 4,649,400, 3-10-87, Cl. 346-76.0PH.
Narula, Dipak; Be, Anh; and Zemanek, Charles P., to Dow Corning Corporation. Curable silicone composition for corrosion protection. 4,701,380, 10-20-87, Cl. 428-447.000.
Narumi China Corporation: *See*—
Kuroda, Toshio; and Kumazawa, Koichi, 4,680,618, Cl. 357-74.000.
Nishigaki, Susumu; Fukuda, Junzo; Fukaya, Masashi; and Yano, Shinsuke. 4,650,923, Cl. 174-68.500.
Narumiya, Hiroshi: *See*—
Morishita, Etsuo; Narumiya, Hiroshi; Kakuda, Masayuki; and Sugihara, Masahiro, 4,674,963, Cl. 418-55.000.
Narumiya, Junichi: *See*—
Honma, Hiroshi; and Narumiya, Junichi, 4,695,734, Cl. 250-573.000.
Kajii, Shigeru; Honma, Hiroshi; and Narumiya, Junichi, 4,651,013, Cl. 250-573.000.
Narumiya, Yoshikazu; Hashimoto, Yasuo; Yui, Hiroshi; and Kageyama, Yoshiteru, to TDK Corporation. Electromagnetic shielding material. 4,690,778, 9-1-87, Cl. 252-506.000.
Narumo, Kinzo: *See*—
Shimamiya, Yukio; Narumo, Kinzo; and Ebihara, Hiroshi. 4,639,066, Cl. 339-132.00B.
Naruo, Hatsumi: *See*—
Toyoda, Kenichi; Miyashita, Hideo; Sakakibara, Shinsuke; and Naruo, Hatsumi. 4,647,827, Cl. 318-592.000.
Naruo, Kyoichi: *See*—
Ohara, Shinichiro; Takahashi, Yohnosuke; Naruo, Kyoichi; and Shinozaki, Fumiaki. 4,656,118, Cl. 430-272.000.
Okita, Tsutomu; Naruo, Kyoichi; Tsuji, Nobuo; Nakagawa, Teruo; Murase, Kiyoshi; and Ogasawara, Takahisa. 4,657,817, Cl. 428-425.900.
Tani, Yoshio; Yabe, Masao; and Naruo, Kyoichi. 4,686,543, Cl. 346-137.000.
Naruoka, Takao; Moriya, Yoshihito; and Ichimiya, Touru, to Toyota Jidosha Kabushiki Kaisha. Device for locking/unlocking rotation of an eccentric bearing used in a compression ratio changing mechanism of an internal combustion engine. 4,687,348, 8-18-87, Cl. 384-255.000.
Narusawa, Haruhiko: *See*—
Konagaya, Shigeji; Watanabe, Osamu; Kuzumoto, Hideshi; Tokai, Masaya; Narusawa, Haruhiko; and Kato, Yasuo. 4,695,383, Cl. 210-500.370.
Narusawa, Sadayuki; and Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Data error detection and correction circuit. 4,646,303, 2-24-87, Cl. 371-38.000.
Narusawa, Sadayuki; and Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Data processing circuit for digital audio system. 4,707,805, 11-17-87, Cl. 364-900.000.
Narusawa, Toshiaki: *See*—
Sawatari, Norio; Yamagishi, Yasuo; Ebisu, Katsuji; Katagiri, Yoshimichi; and Narusawa, Toshiaki, 4,699,863, Cl. 430-97.000.
Narusch, Michael J., Jr.; and LeBail, Stanley G. Sintered, corrosion-resistant powdered metal product and its manufacture. 4,698,269, 10-6-87, Cl. 428-552.000.
Narusch, Michael J., Jr. Dual basket small parts coating apparatus. 4,710,410, 12-1-87, Cl. 427-430.100.

Naruse, Haruhiko: *See*—
Senoue, Masaharu; and Naruse, Haruhiko, 4,653,130, Cl. 5-453.000.

Naruse, Hideaki: *See*—
Morigaki, Masakazu; Ohki, Nobutaka; Takahashi, Osamu; and Naruse, Hideaki, 4,704,350, Cl. 430-546.000.

Naruse, Isao: *See*—
Hirose, Sumio; Naruse, Isao; and Matsuyama, Akio, 4,694,052, Cl. 525-454.000.

Naruse, Jun: *See*—
Nishida, Hiroshi; Yamamoto, Fujio; Higashi, Mikio; and Naruse, Jun, 4,677,509, Cl. 360-97.000.

Naruse, Kazuhiko; and Yuasa, Yoshio, to Minolta Camera Kabushiki Kaisha. Light measuring device. 4,637,721, 1-20-87, Cl. 356-215.000.

Naruse, Kazuhiko: *See*—
Yuasa, Yoshio; Naruse, Kazuhiko; and Inaba, Masahito, 4,655,576, Cl. 354-415.000.
Yuasa, Yoshio; Yasumoto, Hidetoshi; Naruse, Kazuhiko; Kawagoe, Nobukazu; and Inaba, Masahito, 4,704,025, Cl. 355-38.000.

Naruse, Kazuo: *See*—
Tobita, Hideaki; and Naruse, Kazuo, 4,667,866, Cl. 228-4.100.

Naruse, Makoto. Coordinate reader. 4,672,155, 6-9-87, Cl. 178-19.000.

Naruse, Masao: *See*—
Yamada, Koji; Hashimoto, Tamotsu; Naruse, Masao; Murayama, Yo; and Niino, Hideki, 4,705,805, Cl. 514-548.000.

Naruse, Osamu: *See*—
Izumi, Kouji; Horike, Masanori; Furukawa, Tatsuya; Konai, Hiromichi; Naruse, Osamu; and Ebi, Yutaka, 4,677,845, Cl. 73-56.000.

Naruse, Seishiro; and Nakamura, Fumio, to Oki Electric Industry Co., Ltd. Slice level deciding circuit. 4,672,682, 6-9-87, Cl. 382-53.000.

Naruse, Shigeyasu: *See*—
Daigo, Yasuhito; Horibe, Takashi; Inage, Kengo; Naruse, Shigeyasu; Nara, Takashi; Okamoto, Yoshizo; and Yamamoto, Hirenobu, 4,659,384, Cl. 106-35.000.

Naruse, Tsunehide: *See*—
Ojima, Kumiko; Naruse, Tsunehide; and Matsumoto, Yukio, 4,645,724, Cl. 428-695.000.

Naruse, Yasuhito: *See*—
Inukai, Yuzo; Naruse, Yasuhito; Nakayama, Takao; and Kaneko, Nobuyoshi, 4,647,475, Cl. 427-44.000.

Naruse, Yoshihito, to Aisin Seiki Kabushiki Kaisha. Reflective object detecting apparatus. 4,674,073, 6-16-87, Cl. 367-105.000.

Naruse, Yuji: *See*—
Konishi, Satoshi; Ohno, Hideo; Naruse, Yuji; and Yoshida, Hiroshi, 4,637,866, Cl. 204-129.000.

Narushima, Kunio; and Shiobara, Toshikazu, to Pilot Man-Nen-Hitsu Kabushiki Kaisha. Ball-point pen venting arrangement. 4,669,906, 6-2-87, Cl. 401-209.000.

Narushima, Tsugio; Arai, Tsutomu; and Doumoto, Yasuo, to Tokyo Electric Co., Ltd. Printer. 4,634,304, 1-6-87, Cl. 400-691.000.

Narutani, Tetsu; and Suzuki, Shigeharu, to Kawasaki Steel Corporation. Ultrasoft stainless steel. 4,690,798, 9-1-87, Cl. 420-61.000.

Naruto, Eiro: *See*—
Nishikawa, Makoto; Inada, Takeo; Tomoda, Hiroaki; Naruto, Eiro; Oki, Kazuyuki; and Hirano, Kouichi, 4,655,061, Cl. 70-271.000.

Naruto, Masashi, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for controlling electric cars. 4,634,942, 1-6-87, Cl. 318-338.000.

Narutomi, Yasuhisa: *See*—
Takahashi, Hiroshi; Narutomi, Yasuhisa; Aotani, Yoshimasa; and Shiba, Keisuke, 4,642,283, Cl. 430-303.000.

Narva, Kenneth E.: *See*—
Srinivasan, Vadake R.; Cary, Jeffrey W.; Chon, Younghae; and Narva, Kenneth E., 4,713,336, Cl. 435-155.000.

Narveson, Parm L.: *See*—
Grothe, Steven P.; and Narveson, Parm L., 4,635,050, Cl. 340-734.000.

Nasby, Robert C.: *See*—
Stafford, Frank K.; and Nasby, Robert C., 4,676,697, Cl. 405-291.000.
Stafford, Frank K.; and Nasby, Robert C., 4,710,064, Cl. 405-290.000.

Nascher, Fred, to Nascher, Fred. Operating a lathe. 4,658,680, 4-21-87, Cl. 82-1.00C.

Nascimben, Eric: *See*—
Arnoux, Daniel; Cointer, Claude; Anton, Christian; and Nascimben, Eric, 4,704,575, Cl. 324-117.00H.

Naseem, Syed: *See*—
Mankedick, Robert G.; and Naseem, Syed, 4,659,181, Cl. 350-332.000.

Naselow, Arthur B.: *See*—
Landis, Abraham L.; and Naselow, Arthur B., 4,645,824, Cl. 528-353.000.
Landis, Abraham L.; and Naselow, Arthur B., 4,661,650, Cl. 136-256.000.

Nasr, Charles F.; and Aldridge, Steven L., to Atlanta Concrete Accessories Inc. Multi-purpose concrete working tool. 4,702,641, 10-27-87, Cl. 404-97.000.

Nash, Dennis P.; Rex, Donald K.; Siegl, Ludwig R.; and Wussow, Wendy, to International Business Machines Corporation. Ribbon positioning mechanism. 4,643,601, 2-17-87, Cl. 400-216.100.

Nash, Donald R., to Allied Corporation. Ignition module. 4,641,627, 2-10-87, Cl. 123-651.000.

Nash, Dudley O., to United States of America, Air Force. Dual material exhaust nozzle flap. 4,637,550, 1-20-87, Cl. 239-265.370.

Nash Engineering Company, The: *See*—
Olsen, Ole B., 4,679,987, Cl. 417-54.000.

Nash, George S.: *See*—
Steele, Douglas W.; Nash, George S.; Dorsey, John W.; Christy, Ronald S.; and Burns, Timothy L., 4,692,290, Cl. 264-101.000.

Nash, Henry G. Means for securing tubes to a tube sheet. 4,640,192, 2-3-87, Cl. 102-307.000.

Nash, John. Spiral wire bearing for rotating wire drive catheter. 4,686,982, 8-18-87, Cl. 128-305.000.

Nash, John: *See*—
Kensey, Kenneth; and Nash, John, 4,664,112, Cl. 128-341.000.
Kensey, Kenneth; and Nash, John, 4,679,558, Cl. 128-328.000.
Kensey, Kenneth; and Nash, John, 4,681,106, Cl. 128-305.000.
Kensey, Kenneth; and Nash, John, 4,700,705, Cl. 128-341.000.

Nash, John E., to Syntex (U.S.A.) Inc. Abrasive dental tool. 4,634,379, 1-6-87, Cl. 433-166.000.

Nash, Judith E. M.: *See*—
Taylor, Cynthia L.; and Nash, Judith E. M., 4,693,289, Cl. 150-52.00R.

Nash, Michael A.: *See*—
Flavell, John; Nash, Michael A.; and Tubb, Anthony B., 4,708,334, Cl. 271-182.000.

Nash, Richard C.: *See*—
Hanson, David W.; Koehn, Richerd R.; Nash, Richard C.; and Fox, Lonnie G., 4,644,727, Cl. 52-687.000.

Nash, Ruth E.: *See*—
Davis, William N., II; and Nash, Ruth E., 4,680,728, Cl. 364-900.000.

Nash, Seth: *See*—
Crossley, Ian; Donoghue, Daniel; Mittleman, Steven; and Nash, Seth, 4,637,068, Cl. 455-327.000.

Nash, Sheryl A.: *See*—
Friedlander, Randal H.; Nash, Sheryl A.; and Komitor, Greg A., 4,695,493, Cl. 428-40.000.

Nash, Stacy B. Display hanger cover. 4,658,997, 4-21-87, Cl. 223-98.000.

Nash, Stephen E.; Pichler, Gerald P.; and Brooks, David R., to Federal-Mogul Corporation. Dual-lip grease-retaining and dirt-excluding shaft seal. 4,667,968, 5-26-87, Cl. 277-134.000.

Nash, William H.; and Fowler, Eugene C., to Cooper Industries, Inc. Vacuum fuse. 4,713,644, 12-15-87, Cl. 337-158.000.

Nashan, Gerd; Volmari, Josef; Dungs, Horst; Breidenbach, Dieter; and Lorenz, Kurt, to Carl Still GmbH & Co. KG, Firma. Method for dry cooling red-hot coke. 4,668,343, 5-26-87, Cl. 201-39.000.

Nashan, Gerd; Volmari, Josef; Dungs, Horst; Breidenbach, Dieter; and Lorenz, Kurt, to Carl Still GmbH & Co., Firma. Apparatus for dry cooling red-hot coke. 4,699,693, 10-13-87, Cl. 202-228.000.

Nashan, Gerd: *See*—
Lorenz, Kurt; Dungs, Horst; Nashan, Gerd; Breidenbach, Dieter; and Volmari, Josef, 4,647,341, Cl. 202-228.000.
Lorenz, Kurt; Dungs, Horst; Nashan, Gerd; Breidenbach, Dieter; and Volmark, Josef, 4,668,344, Cl. 201-39.000.

Nashed, Wilson: *See*—
Ring, David F.; Nashed, Wilson; and Dow, Thurman, 4,655,758, Cl. 604-374.000.

Nashef, Aws S.; and Campbell, Todd D., to American Hospital Supply Corporation. Method of treating bone fractures to reduce formation of fibrous adhesions. 4,674,488, 6-23-87, Cl. 128-92.00W.

Nashef, Aws S.; and Campbell, Todd D., to American Hospital Supply Corporation. Bone-grafting material. 4,678,470, 7-7-87, Cl. 623-16.000.

Nashef, Aws S.: *See*—
Carpentier, Alain; Carpentier, Sophie; and Nashef, Aws S., 4,647,283, Cl. 623-11.000.
Carpentier, Alain; Carpentier, Sophie; and Nashef, Aws S., 4,648,881, Cl. 623-11.000.

Naslain, Roger: *See*—
Rocher, Jean-Philippe; Quenisset, Jean-Michel; Pailler, Rene; and Naslain, Roger, 4,659,593, Cl. 427-310.000.

Naslund, Jan I. Bag clip. 4,656,697, 4-14-87, Cl. 24-30.50P.

Nason, Clyde K.; and Culp, Gordon W., to Pacesetter Infusion, Ltd. Solenoid drive apparatus for an external infusion pump. 4,678,408, 7-7-87, Cl. 417-410.000.

Nason, Clyde K.: *See*—
Cable, Vaughn P.; Nason, Clyde K.; and Culp, Gordon W., 4,685,903, Cl. 604-154.000.

Nason, Dale L.; Wilson, Neil A.; and Gray, Richard L., to Reliance Universal, Inc. Acrylated cellulosic furniture coatings. 4,656,202, 4-7-87, Cl. 522-89.000.

Nason, Dale L.; and Gray, Richard L., to Reliance Universal, Inc. Conductive coatings for wood products. 4,686,108, 8-11-87, Cl. 427-27.000.

Nason, Frederic L. Specimen collection and test unit. 4,707,450, 11-17-87, Cl. 435-295.000.

Nason, Martin L. Paired beam engines and pumps. 4,651,685, 3-24-87, Cl. 123-54.00R.

Nasrah, Camille S.: *See*—
Gilvar, Martin; Woodrow, Harold E.; and Nasrah, Camille S., 4,706,485, Cl. 72-239.000.

Nassar, Dale. Multiplexed dual tone multi-frequency encoding/decoding system for remote control applications. 4,670,875, 6-2-87, Cl. 370-110.200.

Nasser, Gamal E. D., to D.V.T. Buro fur Anwendung Deutscher Verfahrenstechnik H. Morsy. Apparatus for the distillation of fresh water from sea water. 4,636,283, 1-13-87, Cl. 202-173.000.

Nassof, Martin, to Simplex Ceiling Corp. Suspended ceiling having a concealed suspension grid and lay-in metal panels supported thereon. 4,696,141, 9-29-87, Cl. 52-484.000.

Nassos-Stalder, Patricia S.: *See*—
King, A. Douglas, Jr.; and Nassos-Stalder, Patricia S., 4,707,444, Cl. 435-26.000.

Nastari, John J.; and Cotter, Walter C., to Fabco Medical Products, Inc. Surgical wire and method for the use thereof. 4,643,178, 2-17-87, Cl. 128-92.0YD.

Nastasi, Victor R.: *See*—
Fulton, Inge G.; Makris, James S.; Nastasi, Victor R.; Scaduto, Anthony F.; and Shartel, Anne C., 4,666,556, Cl. 156-643.000.

Nastro, Frank S.: *See*—
Paules, Eugene H.; and Nastro, Frank S., 4,703,763, Cl. 131-112.000.

Nasu, Hisanori; Suzuki, Satoru; Yoshida, Hiroaki; Fukuda, Tomoichi; and Soeda, Eiichi, to Hitachi Software Engineering Co., Ltd. Input apparatus for entering base sequence information of the gene. 4,706,192, 11-10-87, Cl. 364-413.000.

Nasu, Hitoshi: *See*—
Morita, Mitsuru; and Nasu, Hitoshi, 4,646,533, Cl. 62-225.000.

Nasu, Kohji; and Doura, Fumihiro, to Takeda Chemical Industries, Ltd. Curable resin compositions and their use. 4,656,211, 4-7-87, Cl. 524-198.000.

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Maurer, Gerald L., 4,680,309, Cl. 514-499.000.
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McCormick, Gary D., 4,673,074, Cl. 194-236.000.

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Haines, Ralph W., 4,697,107, Cl. 307-474.000.
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Isbell, Tim D.; and Davis, Walter R., 4,634,892, Cl. 307-265.00
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Millhollan, Michael S.; and Sung, Chiakang, 4,701,636, Cl. 307-297.000.
Monticelli, Dennis M., 4,701,720, Cl. 330-260.000.
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Rapp, A. Karl, 4,656,374, Cl. 307-475.000.
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Sankhagowit, Thanomsak, 4,701,781, Cl. 357-70.000.
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Todd, Ronald C., 4,644,185, Cl. 307-279.000.
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Yamanouchi, Roy K., 4,649,299, Cl. 307-480.000.
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Langer, Joseph; Brown, Raymond A.; and Hinnefeld, Jon D. 4,671,585, Cl. 439-117.000.
Yahraus, Theodor G., 4,636,072, Cl. 356-121.000.

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Chiu, Chung-Wai, 4,663,448, Cl. 536-111.000.
Davis, Irwin J., 4,680,333, Cl. 524-394.000.
Flanagan, Thomas P., 4,660,858, Cl. 281-21.00R.
Iovine, Carmine P.; Shih, Yen-Jer; and Foreman, Paul B. 4,668,730, Cl. 524-460.000.
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Kelly, Paul R., 4,670,158, Cl. 210-705.000.
Lauria, Vincent A., 4,678,824, Cl. 524-48.000.
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Mazzarella, Emil D.; Maliczyszyn, Walter; and Atkinson, Jeffre 4,711,671, Cl. 106-243.000.
Mudge, Paul R., 4,692,366, Cl. 428-90.000.
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Walker, James L.; and Yannich, Marie E., 4,659,595, Cl. 427-391.000.
Walker, James L.; and Foreman, Paul B., 4,716,194, Cl. 524-806.000.
Yannich, Marie E.; and Katz, Howard G., 4,684,689, Cl. 524-371.000.
Zwiercan, Gary A.; Lacourse, Norman L.; and Lenchin, Julianne M., 4,695,475, Cl. 426-582.000.
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Prestridge, Floyd L.; and Johnson, Bruce C., 4,702,815, Cl. 204-302.000.
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National Transdata Systems, Inc.: *See*—
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National Union Electric Corp.: *See*—
Hampton, Leonard; and Hohulin, Samuel E., 4,648,149, Cl. 15-360.000.
Hampton, Leonard; and Hohulin, Samuel E., 4,701,975, Cl. 15-383.000.
Richmond, Clark S.; Thomas, Joyce K.; and Hohulin, Samuel E., 4,665,582, Cl. 15-344.000.
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Collett, C. William, 4,651,514, Cl. 57-227.000.
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Natw, Edna C. Puppet or doll having structure provided by stuffing, 4,681,555, 7-21-87, Cl. 446-327.000.
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Amick, David R.; Hann, William M.; and Natoli, John, 4,711,725, Cl. 210-701.000.
Natoli, Richard A.: *See*—
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Natori, Tatsuo: *See*—
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Natsuaki, Nobuyoshi: *See*—
Wada, Yasuo; Tamura, Masao; Natsuaki, Nobuyoshi; and Ohyu, Kiyonori, 4,655,875, Cl. 156-643.000.
Natsugari, Hideaki: *See*—
Yoshioka, Koichi; Tamura, Norikazu; and Natsugari, Hideaki, 4,698,339, Cl. 514-210.000.
Natsuhara, Masao: *See*—
Ashizaki, Shigeya; Sugahara, Koichi; Muranishi, Hideo; and Natsuhara, Masao, 4,701,677, Cl. 315-382.000.
Natsuhara, Toshiya: *See*—
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Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,667,400, Cl. 29-825.000.
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Natsume, Toshio: *See*—
Miura, Hirohisa; Satoh, Hiroshi; Natsume, Toshio; and Katagiri, Hidenori, 4,695,319, Cl. 75-63.000.
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Natsumeda, Takeshi; Nawa, Motoyuki; and Sugawara, Norio, to Matsushita Electric Industrial Co., Ltd. Fluid flow control assembly. 4,677,904, 7-7-87, Cl. 98-38.100.
Natsuume, Tadao; and Ueda, Tsunehisa, to Nippon Zeon Co., Ltd. Stabilized ferrous compound composition. 4,652,435, 3-24-87, Cl. 423-265.000.
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Kadono, Hiromitsu; and Natsuume, Tadao, 4,652,621, Cl. 526-262.000.
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Nattel, William, to Commander Electrical Materials, Inc. Formed metallic wiring box. 4,642,420, 2-10-87, Cl. 174-53.000.
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Nattrass, Peter J., to Bulk Lift International, Incorporated. Transport bag for particulate material. 4,646,357, 2-24-87, Cl. 383-20.000.
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McCausland, Calvin W.; and Palombo, Louis A., 4,670,144, Cl. 210-244.000.
Naturliche Familien-Planung (NFP) GmbH: *See*—
Steuschulte, Werner, 4,654,623, Cl. 338-28.000.
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Ramsden, Hugh E.; and Nau, David R., 4,661,248, Cl. 210-198.200.
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Nauchno-Issledovatelsky Institut Kabelnoi Promyshlennosti Po "Sredazkabel": *See*—
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Nauchno-Issledovatelsky Institut Khimikatov Dlya Polimernykh Materialov: *See*—
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Sorochenko, Oleg A., 4,637,390, Cl. 128-303.140.
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Mkhikian, Robert M.; Shagimian, Suren G.; Markarian, Temur G.; Khudukov, Georgy K.; Velidzhanian, Sofia V.; Manukian, Artashes R.; Karapetian, Artur K.; Kazarian, Araik V.; and Airapetian, Robert R., 4,708,628, Cl. 425-406.000.
Nauchno-Issledovatelsky Institut Tekhnologii Avtomobilnoi Promyshlennosti: *See*—
Fomichev, Leonid F.; Gorokhovsky, Alexandr M.; and Romashkin, Nikolai A., 4,671,092, Cl. 72-102.000.
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Sorochenko, Oleg A., 4,657,017, Cl. 128-303.140.
Naucno Proizvodsvena Laboratoria za Dvigateli s Vatreshno Gorene: *See*—
Kolev, Nikola T., 4,697,552, Cl. 123-56.0BC.
Nauck, Joachim: *See*—
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Larsson, Lars-Ake L.; Nilsson, Ake W.; Johannson, Bo Ingemar W.; and Naucler, Lars Olof V., 4,708,714, Cl. 604-5.000.
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Naudi, Alain, to U.S. Philips Corporation. Automatic method and apparatus for dosing samples. 4,680,716, 7-14-87, Cl. 364-468.000.
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Naughton, Frank C.: *See*—
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Nauman, John D.: *See*—
Johns, Robert H.; and Nauman, John D., 4,678,719, Cl. 428-593.000.
Johns, Robert H.; and Nauman, John D., 4,715,428, Cl. 164-463.000.

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Naumann, Fritz, to Audi AG. Steering mechanism for a motor vehicle. 4,671,523, 6-9-87, Cl. 280-91.000.

Naumann, Herbert, to Blohm + Voss AG. Apparatus for moving aircraft. 4,662,586, 5-5-87, Cl. 244-115.000.

Naumann, Klaus; Braden, Rudolf; Behrenz, Wolfgang; Becker, Benedikt; Homeyer, Bernhard; and Stendel, Wilhelm, to Bayer Aktiengesellschaft. Tetramethylcyclopropanecarboxylates. 4,699,922, 10-13-87, Cl. 514-531.000.

Naumann, Reinhard, to VEB Kombinat Polygraph "Werner Lamberz" Leipzig. Sheet-separating and conveying suction device. 4,640,508, 2-3-87, Cl. 271-103.000.

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Naus, Peter J. A.: *See*—
Stikvoort, Eduard F.; van Roermund, Arthur H. M.; and Naus, Peter J. A., 4,692,737, Cl. 340-347.0DD.

Nausedas, Joseph A., to Viskase Corporation. Method of making a shirred casing stick having an implanted end closure. 4,674,153, 6-23-87, Cl. 17-49.000.

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Navarro, Jean-Marie: *See*—
Ghommidh, Charles; Navarro, Jean-Marie; Girardon, Philippe; and Amen, Jean, 4,687,668, Cl. 426-17.000.

Navarro, Pablo. Paper winding device. 4,669,678, 6-2-87, Cl. 242-67.30R.

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Desyllas, Peter L. L.; Holt, Nicholas P.; and Naven, Finbar, 4,697,268, Cl. 371-67.000.

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Bebsanti, James F., 4,653,441, Cl. 123-90.390.
Grunsteiner, James J., 4,653,658, Cl. 236-34.500.
Honekamp, Curtis J.; and Fasick, Ernest J., 4,662,489, Cl. 192-4.00A.
Mann, Joseph M.; and Spitler, James A., 4,684,786, Cl. 219-297.000.
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Glotzbach, Ronald W., 4,677,429, Cl. 340-711.000.
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Pratt, Howard L., 4,706,461, Cl. 60-599.000.
Rudavicius, Gabriel J., 4,715,434, Cl. 165-119.000.
Schmid, Karl J., 4,708,102, Cl. 123-90.350.

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Nawrot, Thomas L.; Vancha, John; and Mysicka, James C., to John Zink Company. Electronic pressing iron. 4,686,352, 8-11-87, Cl. 219-250.000.

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Nayak, Debi P.: *See*—
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Nayler, Douglas W. J.; Foreman, Fred R.; and Childs, Willard D., to NL Industries, Inc. Crown block compensator. 4,688,764, 8-25-87, Cl. 254-277.000.

Nayler, Graham L.; and Pattany, Pradip M., to Picker International, Inc. Low R.F. dosage magnetic resonance imaging of high velocity flows. 4,689,560, 8-25-87, Cl. 324-306.000.

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Gyngell, Michael L.; and Nayler, Graham L., 4,703,268, Cl. 324-309.000.
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Pritchatt, Robert J., 4,673,198, Cl. 285-292.000.

Naylor, Carter G., to Texaco, Inc. Process for thickening aqueous solutions. 4,704,226, 11-3-87, Cl. 252-162.000.

Naylor, Clifford; and Pocknell, David, to Dow Corning Ltd. Medical-surgical dressing and a process for the production thereof. 4,660,553, 4-28-87, Cl. 128-156.000.
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Naylor, Geoffrey; and Lawrence, Christopher J., to Rieter-Scragg Limited. Yarn entangling air jet. 4,679,284, 7-14-87, Cl. 28-272.000.
Naylor, Geoffrey; and Wilkinson, Philip M., to Rieter Scragg Limited. False twisting apparatus. 4,704,858, 11-10-87, Cl. 57-340.000.
Naylor, Harry, to General Ionex Corporation. Charge conversion unit for negative ion source. 4,712,012, 12-8-87, Cl. 250-423.00R.
Naylor, Harry B., to Pasco Laboratories, Inc. Method and apparatus for preventing cross-contamination of biochemical test wells in a microtiter test plate. 4,680,269, 7-14-87, Cl. 435-301.000.
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Naylor, Jimmy R.; Mietus, David F.; and White, Robert L., to Burr-Brown Corporation. Low cost digital-to-analog converter with high precision feedback resistor and output amplifier. 4,647,906, 3-3-87, Cl. 340-347.0DA.
Naylor, Jimmy R.: *See*—
Lillis, William J.; and Naylor, Jimmy R., 4,651,132, Cl. 340-347.0AD.
Naylor, John T. Coin safe construction. 4,655,145, 4-7-87, Cl. 109-52.000.
Naylor, Nelson A. Front gauge for machine tool. 4,700,937, 10-20-87, Cl. 269-304.000.
Naylor, Thomas K., to Siemens Aktiengesellschaft. Apparatus for establishing the differences between multiple pairs of analog input signals. 4,683,441, 7-28-87, Cl. 330-69.000.
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Bruce, Robert J.; and Naypaver, John K., 4,660,306, Cl. 37-86.000.
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Nax, Heinz, 4,651,536, Cl. 62-256.000.
Nazar, Robert C. Portable upright chair with insulated seat cooler. 4,650,245, 3-17-87, Cl. 297-192.000.
Nazar, Robert C. Portable adjustable chair with insulated seat cooler. 4,652,048, 3-24-87, Cl. 297-192.000.
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Nazmy, Mohamed Y., to BBC Brown, Boveri & Company Limited. Process for joining component workpieces made of a superalloy employing the diffusion bonding process. 4,676,843, 6-30-87, Cl. 148-11.50N.
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Gradecki, Raymond J.; McLaughlin, James M.; and Sorensen, Gerald R., 4,697,710, Cl. 211-45.000.
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NCR Canada Ltd - NCR Canada Ltee: *See*—
Brooks, Ralf M.; Connell, Brian P.; Sonnenburg, Dennis T.; and Pagowski, Stefan J., 4,712,113, Cl. 346-1.100.
Hoque, Zahirul; and Oka, Akihiro, 4,685,141, Cl. 382-7.000.
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Allen, Jerrold L., 4,646,237, Cl. 364-200.000.
Amacher, Gene L.; Mathes, Gene R.; and Paugstat, John F., 4,660,663, Cl. 177-50.000.
Amacher, Gene L.; Mathes, Gene R.; Paugstat, John F.; and Mergenthaler, Barry M., 4,715,457, Cl. 177-1.000.
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Bangs, Richard G.; and Grey, Michael O., 4,661,823, Cl. 346-76.0PH.
Bangs, Richard G.; and Grey, Michael O., 4,708,500, Cl. 400-120.000.
Barnes, Lawrence C.; and Mankedick, Robert G., 4,680,622, Cl. 358-22.000.
Belknap, William M.; Chanasyk, Albert J.; O'Dell, Robert R.; and Girard, Donald J., 4,710,871, Cl. 364-200.000.
Blanford, Denis M., 4,679,154, Cl. 364-525.000.
Brull, Robert A.; Walker, Alan H.; and Moro, Joseph C., 4,655,625, Cl. 400-605.000.
Cabaniss, Frank W.; and Lockwood, James M., 4,695,808, Cl. 331-57.000.
Claessen, Albertus M. G., 4,715,064, Cl. 379-392.000.
Cohen, Morris, 4,701,843, Cl. 364-200.000.
Collins, George J.; and Metz, Werner A., Jr., 4,666,557, Cl. 156-643.000.
Cone, Richard E.; and Paugstat, John F., 4,700,656, Cl. 177-245.000.
Crafts, Harold S.; and Ham, Patrick L., 4,647,798, Cl. 307-451.000.
Craycraft, Donald G.; and Pham, Giao N., 4,634,893, Cl. 307-270.000.
Craycraft, Donald G.; and Pham, Giao N., 4,636,664, Cl. 307-530.000.
Davis, William N., II; and Nash, Ruth E., 4,680,728, Cl. 364-900.000.
Del Signore, James R., II, 4,683,817, Cl. 101-93.030.
DiCenzo, Daniel A., 4,680,732, Cl. 364-900.000.
Dilella, Antonio, 4,680,803, Cl. 382-9.000.
Eby, Michael D., 4,658,380, Cl. 365-201.000.
Ellsworth, Daniel L.; and Sullivan, Paul A., 4,651,409, Cl. 29-576.00B.
Fan, Leland M., Jr., 4,669,028, Cl. 361-386.000.
Fadem, Richard J., 4,654,650, Cl. 340-726.000.
Fairey, Brian M., 4,643,091, Cl. 101-233.000.
Ferrante, Ronald A., 4,687,282, Cl. 350-3.700.
Filliman, Mark D.; and Granzow, Robert H., 4,656,662, Cl. 382-3.000.
Gay, Richard B.; and Crafts, Harold S., 4,714,876, Cl. 324-73.00R.
Gerri, Edward J.; and Eisenhauer, David P., 4,642,634, Cl. 340-870.020.
Goldsbury, Timothy G.; and Schmidt, Carson T., 4,646,312, Cl. 371-38.000.
Granzow, Robert H.; and Gupta, Desh B., 4,638,993, Cl. 271-315.000.
Granzow, Robert H.; Richard, Harold S.; and Hermann, Thomas L., 4,645,153, Cl. 248-178.000.
Granzow, Robert H.; Placke, Dale L.; and Howett, Harry L., 4,655,391, Cl. 232-43.100.
Grey, Michael O., 4,710,040, Cl. 400-55.000.
Grummett, Dennis W., 4,682,723, Cl. 228-39.000.
Hain, David A.; Keir, Grant G. H.; McGregor, Alister R. C.; and Hutcheon, Alfred J., 4,649,832, Cl. 109-24.100.
Hain, David A.; Husband, Edward; and Hutchison, Brian, 4,670,643, Cl. 235-379.000.
Hain, David A., 4,699,374, Cl. 271-267.000.
Hale, William J.; Horst, William R.; and Riley, Ellen P., 4,634,845, Cl. 235-350.000.
Hale, William J.; and Horst, William R., 4,652,698, Cl. 380-24.000.
Hale, William J.; Horst, William R.; and Creech, Arthur R., Jr., 4,689,478, Cl. 235-380.000.
Hamano, Tsutomu; and Shikano, Hiroshi, 4,702,629, Cl. 400-56.000.
Heys, George, Jr.; Aleshire, Rex A.; Hines, Frank; and Belknap, William M., 4,682,325, Cl. 370-85.000.
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Hilbrink, Johan O., 4,636,788, Cl. 340-804.000.
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Hong, Vuong B.; Rowson, Stuart C.; Daniel, Richard A.; and Rostek, Paul M., 4,638,256, Cl. 328-105.000.
Houser, James S.; and Hines, Frank, 4,669,044, Cl. 364-200.000.
Howett, Harry L.; Granzow, Robert H.; and Placke, Dale L., 4,659,008, Cl. 232-43.300.
Isherwood, Jonathan M.; and Gibbs, Andrew R., 4,701,747, Cl. 340-365.00P.
Janning, John L., 4,667,217, Cl. 357-54.000.
Jen, Tai-Kuang, 4,691,150, Cl. 318-331.000.
Kaino, Masami S.; and Young, Rocky M-Y., 4,700,344, Cl. 370-94.000.
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Keiser, Alan E.; and Mundt, Randall S., 4,671,970, Cl. 427-93.000.
Kelch, Russell K.; Finfrock, Don C.; Girard, Donald J.; Seevers, Daniel B.; Briggs, Barry D.; and Mathes, Gene R., 4,683,531, Cl. 364-200.000.
Kerber, William O.; Boates, Roger W.; and Sanwo, Ikuo J., 4,689,496, Cl. 307-269.000.
Kleijne, Theodoor A.; and Goossens, Jan B., 4,691,350, Cl. 380-3.000.
Lauffer, Donald K.; and Sanwo, Ikuo J., 4,656,375, Cl. 307-475.000.
Lauffer, Donald K.; Milby, Gregory H.; Rostek, Paul M.; and Sanwo, Ikuo J., 4,713,827, Cl. 375-7.000.
Leonard, Robert E.; and Huser, Robert E., 4,667,985, Cl. 283-58.000.
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Mankedick, Robert G.; and Naseem, Syed, 4,659,181, Cl. 350-332.000.
Mason, Kent L., 4,694,426, Cl. 365-78.000.
Mathes, Gene R.; and Protheroe, Robert L., 4,682,150, Cl. 340-347.0DD.
Mazumder, Ali T.; and Kamel, Mohamed S., 4,641,018, Cl. 235-462.000.
Mazumder, Ali T., 4,665,371, Cl. 328-129.100.
Mazumder, Ali T.; and Fairey, Brian M., 4,673,141, Cl. 242-75.470.
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McCombs, Craig C.; and Farris, Richard D., 4,656,368, Cl. 307-272.00A.
McCombs, Craig C., 4,669,101, Cl. 377-114.000.
Meguire, Patrick G.; and Pitoniak, Thomas J., 4,680,572, Cl. 340-365.00R.
Mergenthaler, Barry M.; King, Ronald J.; Kovats, Laszlo I., deceased; Taylor, James H., administrator; and Cone, Richard E., 4,656,344, Cl. 235-462.000.
Metz, Werner A., Jr.; Szluk, Nicholas J.; Miller, Gayle W.; Drury, Michael J.; and Sullivan, Paul A., 4,648,175, Cl. 29-589.000.
Meyers, Thomas J., 4,710,615, Cl. 235-454.000.
Miller, Gayle W.; Szluk, Nicholas J.; McKinley, William W.; Hayworth, Hubert O.; and Maheras, George, 4,654,121, Cl. 156-653.000.
Miller, Gayle W.; Szluk, Nicholas J.; Maheras, George; and Metz, Werner A., Jr., 4,682,404, Cl. 29-571.000.
Osmera, Miroslav S.; Bella, Anton; Kallin, Fredrik L. N.; and Evans, Edward R., 4,648,591, Cl. 271-305.000.
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Peebles, John A.; and Swinton, James D., 4,697,944, Cl. 400-635.000.
Peebles, John A., 4,704,061, Cl. 414-405.000.

Placke, Dale L.; and Weeks, Donald L., 4,640,505, Cl. 271-209.000.
Poeppelman, Alan D., 4,692,923, Cl. 371-38.000.
Quinn, Bruce A.; and Barton, Scott N., 4,638,312, Cl. 340-825.350.
Reid, Bruce A.; and Deline, John R. M., 4,710,690, Cl. 318-685.000.
Rogers, Steven H.; Mundt, Randall S.; and Kaya, Denise A., 4,656,497, Cl. 357-50.000.
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Sani, Mehdi H.; and Tipon, Donald G., 4,656,372, Cl. 307-475.000.
Sanwo, Ikuo J.; Chiu, Albert P.; and Kerber, William O., 4,647,797, Cl. 307-443.000.
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Seitz, Paul W.; Lewis, Maurice W.; and Lakes, Stephen D., 4,641,159, Cl. 346-200.000.
Smith, Robert K., 4,665,521, Cl. 371-22.000.
Speraw, Floyd G.; and Cabaniss, Frank W., 4,665,467, Cl. 361-388.000.
Speraw, Floyd G., 4,672,509, Cl. 361-384.000.
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Wills, David C.; Landis, Donald E.; and Lyons, Dale R., 4,636,781, Cl. 340-700.000.
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NDT Technologies, Inc.: *See*—
Weischedel, Herbert R., 4,659,991, Cl. 324-241.000.

NEA Technologies, Inc.: *See*—
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Neagle, Richard M.: *See*—
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Oliker, Michael D., 4,652,278, Cl. 55-20.000.
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Nebe, Wolfgang; Reichel, Jutta; Biehler, Klaus; Lucht, Hartmut; and Drommert, Heinz, to Jenoptik Jena GmbH. Laser spectral fluorometer. 4,691,110, 9-1-87, Cl. 250-458.100.

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Nebelung, Hermann H.; Huber, Robert; and Futterknecht, Fritz, to Emhart Industries, Inc. Parison transferring means. 4,637,827, 1-20-87, Cl. 65-235.000.

Nebelung, Hermann H.; Gruninger, William; and Huber, Robert, to Emhart Industries, Inc. Gob distributor for a glassware manufacturing machine. 4,654,069, 3-31-87, Cl. 65-163.000.

Nebelung, Hermann H., to Emhart Industries, Inc. Mould opening and closing mechanism for a glassware forming machine. 4,655,813, 4-7-87, Cl. 65-359.000.

Nebelung, Hermann H., to Emhart Industries, Inc. Moving means for use in a glassware manufacturing machine. 4,657,474, 4-14-87, Cl. 414-744.00A.

Nebelung, Hermann H.; and Futterknecht, Fritz, to Emhart Industries, Inc. Mould arrangement of a glassware forming machine. 4,659,358, 4-21-87, Cl. 65-360.000.

Nebelung, Hermann H.; and Knoth, Werner-Dieter, to Emhart Industries, Inc. Blowhead arrangement for a glassware container manufacturing machine. 4,678,494, 7-7-87, Cl. 65-261.000.

Nebelung, Hermann H., to Emhart Industries, Inc. Baffle moving mechanism for use in a glassware manufacturing machine of the individual section type. 4,695,307, 9-22-87, Cl. 65-242.000.

Nebelung, Hermann H.: *See*—
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Nebolsine, Peter E.: *See*—
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Nebon, Jean-Pierre: *See*—
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partment of Economic Development, State of Nebraska:
dra; and Walker, Charles E., 4,710,567, Cl. 536-119.000.
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yo Kabushiki Kaisha. Exhaust pipe cover for motorcycles.
0-13-87, Cl. 180-219.000.
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, Akihiro, 4,667,233, Cl. 358-136.000.
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s; Mikio, 4,649,637, Cl. 29-588.000.
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leyuki, 4,661,978, Cl. 379-394.000.
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, Kunio; and Noguchi, Masahiko, 4,648,587, Cl.
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otaro; and Tanaka, Osamu, 4,639,939, Cl. 375-118.000.
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, Yoshio; and Yamada, Kazumori, 4,652,145, Cl.
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o; Takahashi, Hiroshi; Nosaka, Kazuhiko; and Hattori,
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aburo, 4,716,551, Cl. 365-222.000.
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Ishii, Eiichi, 4,649,327, Cl. 315-310.000.
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Itoh, Shin-Ichi, 4,667,201, Cl. 342-371.000.
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Izutani, Toshiyuki; Tonita, Yuichi; and Yokoyama, Hiroshi, 4,658,257, Cl. 342-372.000.
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Kanemasa, Akira, 4,707,824, Cl. 370-32.100.
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Kawada, Michitaka, 4,672,483, Cl. 360-51.000.
Kawai, Masato, 4,696,006, Cl. 371-27.000.
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Kawasaki, Ryoji; Yoshizawa, Kazuhiro; Yotsutani, Akio; Saegusa, Noboru; Ito, Koichi; and Huse, Syozi, 4,679,244, Cl. 455-54.000.
Kawata, Kazuhide, 4,670,838, Cl. 364-200.000.
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Kimura, Katsuji; Kasai, Yoshihiko; Yokoyama, Yukio; Yamasaki, Koji; and Sato, Toshifumi, 4,680,553, Cl. 330-2.000.
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Koike, Nobuhiko, 4,638,475, Cl. 370-60.000.
Kondo, Shigeyuki, 4,716,473, Cl. 360-9.100.
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Kudo, Yoshihisa, 4,706,085, Cl. 342-825.560.
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Kusaka, Teruo, 4,694,319, Cl. 357-38.000.
Machida, Toshiaki, 4,665,538, Cl. 377-69.000.
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Maru, Tsuguo, 4,661,965, Cl. 375-110.000.
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Masuda, Shinji, 4,644,291, Cl. 330-261.000.
Masuda, Shinji, 4,673,866, Cl. 323-313.000.
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Matsui, Toshiya, 4,716,589, Cl. 381-3.000.
Matsukura, Hiroyuki; and Yamauchi, Fumio, 4,636,101, Cl. 400-690.000.
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Matsumura, Takao, 4,676,840, Cl. 148-1.500.
Matsuo, Yoshitake, 4,677,687, Cl. 455-10.000.
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Minato, Yukio, 4,692,996, Cl. 437-73.000.
Minemura, Kouichi; Shikada, Minoru; and Emura, Katsumi, 4,706,300, Cl. 455-619.000.
Mitake, Keajiro, 4,678,950, Cl. 307-550.000.
Miura, Masami; and Higashiyama, Naotoshi, 4,674,121, Cl. 381-10.000.
Miura, Masami, 4,688,264, Cl. 455-168.000.
Miwada, Kazuo, 4,700,085, Cl. 307-350.000.
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Miyazaki, Tomohiro; Koyama, Tetsu; and Koike, Shinichi, 4,700,364, Cl. 375-62.000.
Mizoguchi, Shoichi, 4,638,495, Cl. 375-14.000.
Mizota, Yasuhiro, 4,713,809, Cl. 370-97.000.
Momose, Yuya, 4,703,446, Cl. 364-580.000.
Mori, Koichi, 4,675,680, Cl. 342-352.000.
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Morishige, Yukio, 4,711,790, Cl. 427-10.000.
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Murai, Masao, 4,672,325, Cl. 328-138.000.
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Muraki, Kazunori, 4,703,425, Cl. 364-419.000.
Musha, Toshimitsu; Kiuchi, Eichi; and Hagisawa, Toshihiko, 4,661,816, Cl. 342-91.000.
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Nagata, Koichi; and Nakajima, Takeshi, 4,653,028, Cl. 365-195.000.
Nagata, Yoshinori, 4,700,151, Cl. 332-18.000.
Naiki, Kazuaki, 4,659,961, Cl. 313-413.000.
Nakagawa, Masatsugu; and Iwano, Tatsuya, 4,701,755, Cl. 340-825.020.
Nakaizumi, Kazuo, 4,672,583, Cl. 365-222.000.
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Nakamura, Hiroshi; Kiuchi, Eiichi; and Hagisawa, Toshihiko, 4,658,255, Cl. 342-91.000.
Nakamura, Hiroyasu, 4,712,229, Cl. 379-58.000.
Nakamura, Shigeki, 4,660,201, Cl. 371-61.000.
Nakano, Takao; and Kensuke, Inou, 4,699,262, Cl. 198-411.000.
Nakayama, Kenji; and Takeuchi, Yayoi, 4,686,686, Cl. 375-11.000.
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Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,389, Cl. 439-557.000.
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,688,871, Cl. 439-357.000.
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Namiki, Junji, 4,701,935, Cl. 375-4.000.
Nanba, Shinji, 4,665,484, Cl. 364-200.000.
Negoro, Tatsuo, 4,692,784, Cl. 357-19.000.
Nemoto, Masahisa, 4,672,238, Cl. 307-350.000.
Nishijima, Kazunori; and Sugawara, Mitsutoshi, 4,694,204, Cl. 307-494.000.
Nishimura, Hiroyuki, 4,635,431, Cl. 364-200.000.
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Nishiwaki, Mitsuo; Amano, Tooru; Yasuda, Tooru; Okubo, Sakae; and Mukawa, Naoki, 4,688,233, Cl. 375-58.000.
Noda, Seiichi; and Yoshimoto, Makoto, 4,716,385, Cl. 332-9.00R.
Noguchi, Masahiko; and Hiromori, Kunio, 4,643,626, Cl. 414-103.000.
Noguchi, Toshitake, 4,706,243, Cl. 370-69.100.
Nomura, Minoru, 4,694,403, Cl. 364-488.000.
Nukiyama, Tomoji, 4,649,512, Cl. 364-900.000.
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Obara, Takashi, 4,680,482, Cl. 307-279.000.
Oda, Eiji, 4,694,476, Cl. 377-58.000.
Oda, Toshiaki; and Yotsutani, Akio, 4,656,653, Cl. 379-61.000.
Ogasawara, Kazuo; Katoh, Yoshiichi; and Takahashi, Hideo, 4,651,037, Cl. 307-572.000.
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Ohki, Junichi; and Furukawa, Akihiro, 4,689,673, Cl. 358-136.000.
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Ohnuki, Hidebumi; Asano, Toshiaki; Atarashi, Takashi; and Yasui, Sunao, 4,668,332, Cl. 156-630.000.
Ohsawa, Tomoki, 4,692,931, Cl. 375-106.000.
Ohta, Kiyoshi, 4,706,262, Cl. 375-60.000.
Ohta, Kuniichi, 4,670,767, Cl. 357-34.000.
Ohta, Yoshinori; Sakuma, Isamu; Hibiya, Taketoshi; and Sakaguchi, Mitsuhito, 4,686,678, Cl. 372-33.000.
Ohwada, Katsuaki, 4,656,581, Cl. 364-200.000.
Ohyagi, Takashi; and Ichikawa, Yoshio, 4,642,632, Cl. 340-825.440.
Oida, Osamu; and Iwakawa, Tsunekiyo, 4,716,341, Cl. 315-169.4[illegible]
Okada, Koichi, 4,702,995, Cl. 430-311.000.
Okada, Yoshikatsu, 4,693,303, Cl. 165-80.400.
Okamoto, Eiji; and Nakamura, Katsuhiro, 4,658,292, Cl. 380-20.000.
Okamoto, Eiji; and Nakamura, Katsuhiro, 4,663,500, Cl. 380-47.000.
Okamoto, Toshiyuki, 4,661,779, Cl. 330-253.000.
Okano, Minoru; and Kohmoto, Mitsuo, 4,682,268, Cl. 361-384.000.
Okazaki, Ryota, 4,655,626, Cl. 400-605.000.
Okazawa, Takeshi, 4,700,212, Cl. 357-41.000.
Okazawa, Takeshi; and Hirano, Yoshiyuki, 4,716,131, Cl. 437-200.000.
Okumura, Koichiro; and Watanabe, Takeshi, 4,635,229, Cl. 365-154.000.
Okumura, Koichiro; and Ohkawa, Masayoshi, 4,680,488, Cl. 307-482.000.
Omachi, Takao, 4,636,783, Cl. 340-727.000.
Onabe, Kentaro, 4,675,708, Cl. 357-4.000.
Ono, Shigeru, 4,669,120, Cl. 381-40.000.
Ono, Takesi; Nakamura, Kazuo; and Okamoto, Toshio, 4,647,93[illegible] Cl. 342-461.000.
Ono, Yuzo, 4,689,481, Cl. 290-201.000.
Oota, Takashi; Uchikawa, Tadao; Okihara, Naoto; Aihara, Yoshi and Wakamatsu, Kazutoshi, 4,672,257, Cl. 310-328.000.
Oshima, Goro; and Kato, Kotaro, 4,639,548, Cl. 380-43.000.
Otani, Susumu, 4,686,484, Cl. 329-109.000.
Otani, Susumu, 4,696,057, Cl. 455-226.000.
Oya, Takeo, 4,694,359, Cl. 360-76.000.
Oyagi, Takashi; and Tsunoda, Kazuyuki, 4,713,659, Cl. 340-825.440.
Oyamada, Takashi, 4,641,370, Cl. 455-348.000.
Oyamada, Takashi, 4,692,790, Cl. 357-79.000.
Ozawa, Kazunori; and Araseki, Takashi, 4,716,592, Cl. 381-40.00
Ryu, Kazuo, 4,647,903, Cl. 340-347.0AD.
Ryu, Kazuo, 4,667,178, Cl. 340-347.0DA.
Ryu, Toshihiko, 4,663,768, Cl. 375-100.000.
Saburi, Akio, 4,688,216, Cl. 370-104.000.
Saburi, Akio, 4,715,033, Cl. 370-104.000.
Sahara, Hirokazu; and Nakayama, Kiyoshi, 4,675,688, Cl. 343-765.000.
Saito, Koji, 4,644,466, Cl. 364-200.000.
Sakamoto, Mikio, 4,672,453, Cl. 358-294.000.
Sakoe, Hiroaki, 4,670,850, Cl. 364-513.500.
Sakoe, Hiroaki, 4,694,493, Cl. 381-42.000.
Sakuma, Hiraku, 4,677,317, Cl. 307-443.000.
Sakuma, Hiraku, 4,692,665, Cl. 315-169.400.
Sakurai, Toyoaki, 4,670,719, Cl. 330-137.000.
Sangu, Isao, 4,688,109, Cl. 360-10.200.
Sasage, Tsutomu; Matsumoto, Minoru; and Yoshikawa, To 4,705,266, Cl. 271-264.000.
Sata, Hiroshi, 4,714,900, Cl. 331-8.000.
Sato, Fumihiko; and Yamada, Kazuyoshi, 4,686,395, Cl. 307-455.000.
Sato, Masakazu, 4,644,539, Cl. 371-11.000.
Sato, Osamu, 4,686,690, Cl. 375-114.000.
Sato, Toshifumi, 4,689,606, Cl. 340-347.0DD.
Sato, Toshifumi, 4,710,960, Cl. 381-47.000.
Sato, Yoshikuni, 4,674,063, Cl. 364-900.000.
Seedhom, Bahaa B.; and Fujikawa, Kyosuke, 4,668,233, Cl. 623-13.000.
Sekiguchi, Toru; and Kondo, Shigeyuki, 4,663,679, Cl. 360-73.0
Senoo, Keiichi, 4,663,754, Cl. 370-13.000.
Setoyama, Youichi, 4,673,952, Cl. 346-76.0PH.
Shikada, Minoru; Yamazaki, Shuntaro; and Fujita, Sad 4,700,352, Cl. 372-20.000.
Shikada, Minoru, 4,704,741, Cl. 455-606.000.
Shimada, Jiroh; and Morito, Hiroshi, 4,694,274, Cl. 340-146.200.
Shimizu, Junzoh, 4,679,306, Cl. 29-576.00W.
Shimizu, Shigeru; and Kumasaka, Akio, 4,704,681, Cl. 364-417.0
Shimizu, Toshimitsu, 4,709,386, Cl. 379-24.000.
Shimogawara, Jun, 4,653,944, Cl. 400-144.100.
Shimonou, Shigeru, 4,648,085, Cl. 369-54.000.
Shinmyo, Saburo, 4,653,049, Cl. 370-95.000.
Shirai, Tadao, 4,680,561, Cl. 333-208.000.
Shirakabe, Kazuhisa; Ishii, Kazuo; and Iriono, Masatos 4,667,089, Cl. 235-462.000.
Shizume, Yasumichi, 4,691,379, Cl. 455-319.000.
Sone, Jun'ichi, 4,716,445, Cl. 357-16.000.
Suga, Michihisa; and Tsuzuki, Mitsuo, 4,672,397, Cl. 346-140.0
Sugimoto, Yoshimasa; Torikai, Toshitaka; and Tagushi, Ken 4,651,187, Cl. 357-30.000.
Suzuki, Akira, 4,670,689, Cl. 313-499.000.
Suzuki, Katsumi, 4,634,643, Cl. 430-5.000.
Suzuki, Norio, 4,639,767, Cl. 358-21.00R.
Suzuki, Norio, 4,709,257, Cl. 358-23.000.
Suzuki, Takeshi, 4,713,836, Cl. 379-58.000.
Taguchi, Kenko, 4,684,969, Cl. 357-30.000.
Taguchi, Tetsu; and Koshio, Tatsukichi, 4,672,638, Cl. 375-99.0
Taguchi, Tetsu, 4,701,955, Cl. 381-51.000.
Tahara, Masato; Matsuura, Tooru; and Ryu, Toshihiko, 4,688,2 Cl. 375-102.000.
Takahara, Atsushi; Ishikawa, Tomoyoshi; Tanaka, Hiroyuki; Okui, Tamio, 4,679,004, Cl. 331-14.000.
Takahashi, Akinori, 4,694,277, Cl. 340-347.0NT.
Takahashi, Hideo, 4,656,649, Cl. 377-48.000.

Takahashi, Hiroshi, 4,703,342, Cl. 358-31.000.
Takahashi, Kousuke; and Yamada, Hachiro, 4,635,226, Cl. 365-6.000.
Takahashi, Tsutomu, 4,682,368, Cl. 455-38.000.
Takai, Haruki; Ujne, Mikio; and Nakamura, Hideki, 4,712,212, Cl. 370-104.000.
Takane, Hisao, 4,672,538, Cl. 364-700.000.
Takashima, Yosuke, 4,701,806, Cl. 358-283.000.
Takekawa, Kouichi; and Bonkohara, Manabu, 4,714,952, Cl. 357-75.000.
Takimoto, Hideki, 4,651,213, Cl. 358-172.000.
Takumi, Kenta; and Sakamoto, Hidenori, 4,675,866, Cl. 370-124.000.
Tamura, Yoshiharu; and Kimura, Katsuji, 4,709,404, Cl. 455-126.000.
Tanaka, Kouichi; Kuwajima, Takeshi; and Amazawa, Kiyoshi, 4,680,792, Cl. 381-12.000.
Tanaka, Minoru, 4,658,416, Cl. 379-57.000.
Tanaka, Takanori; and Kitagawa, Takashi, 4,700,219, Cl. 358-29.000.
Tanigaki, Katsumi; and Iida, Yasuo, 4,690,882, Cl. 430-192.000.
Tejima, Shunichiro, 4,635,247, Cl. 370-13.000.
Terakado, Tomoji; and Odagiri, Yuichi, 4,698,821, Cl. 372-50.000.
Teranishi, Nobukazu; and Kohno, Akiyoshi, 4,652,911, Cl. 358-44.000.
Tobya, Hirokazu; and Kido, Tooru, 4,698,517, Cl. 307-43.000.
Tomita, Yasuharu, 4,654,719, Cl. 358-261.000.
Tsugane, Syuzo; and Nishiwaki, Mitsuo, 4,679,081, Cl. 358-138.000.
Tsuji, Yoshitake; and Asai, Ko, 4,635,290, Cl. 382-9.000.
Tsunoda, Kazuyuki, 4,646,081, Cl. 340-825.440.
Tsunoda, Kazuyuki, 4,660,032, Cl. 340-825.440.
Uchibori, Junichi; Koizumi, Yutaka; and Ryu, Toshihiko, 4,675,619, Cl. 332-31.00R.
Uchikawa, Tadao; and Kitagawa, Kunio, 4,675,568, Cl. 310-328.000.
Uematsu, Ryosuke; Ushioda, Toyoji; and Fukuchi, Hiromichi, 4,688,048, Cl. 346-1.100.
Umeki, Yoshitaka; and Yamada, Kazuyoshi, 4,689,497, Cl. 307-272.00A.
Umeki, Yoshitaka, 4,694,198, Cl. 307-290.000.
Usui, Takeshi, 4,646,361, Cl. 455-601.000.
Usui, Takeshi, 4,714,830, Cl. 250-234.000.
Utsumi, Kazuaki; Ochi, Atsushi; Suzuki, Masanori; and Midorikawa, Mitsuhiro, 4,681,667, Cl. 204-15.000.
Watanabe, Hisatsune; and Usui, Akira, 4,680,602, Cl. 357-17.000.
Watanabe, Tadashi, 4,710,867, Cl. 364-200.000.
Watanabe, Takao; and Watari, Masao, 4,641,342, Cl. 381-41.000.
Watanabe, Takeshi, 4,697,106, Cl. 307-463.000.
Watari, Toshihiko; and Umeta, Junzo, 4,652,970, Cl. 361-385.000.
Yagi, Toshiharu, 4,715,037, Cl. 371-43.000.
Yajima, Seiichi, 4,709,325, Cl. 364-200.000.
Yamada, Kazuyoshi, 4,658,205, Cl. 323-313.000.
Yamada, Kazuyoshi, 4,713,561, Cl. 307-456.000.
Yamada, Kouichi, 4,712,090, Cl. 340-347.0DD.
Yamaguchi, Masayuki, 4,704,720, Cl. 372-96.000.
Yamaguchi, Takashi, 4,635,234, Cl. 365-233.000.
Yamaguchi, Yasutaka, 4,682,402, Cl. 29-571.000.
Yamaguti, Yukio, 4,709,301, Cl. 361-387.000.
Yamanaka, Hiroshi, 4,678,889, Cl. 219-121.0LJ.
Yamawaki, Seiichi; Obuchi, Tomoki; Toyama, Noboru; and Shogen, Kazuyoshi, 4,673,905, Cl. 333-239.000.
Yanagisawa, Masahiro, 4,696,845, Cl. 428-64.000.
Yanase, Tomoo; and Rangu, Hiroyoshi, 4,636,821, Cl. 357-17.000.
Yasunaga, Satoshi, 4,688,256, Cl. 381-46.000.
Yasuoka, Nobuyuki, 4,661,928, Cl. 365-189.000.
Yokota, Toyohachi, 4,658,431, Cl. 382-53.000.
Yokoyama, Hiroshi, 4,673,942, Cl. 342-368.000.
Yokoyama, Yukio; Kimura, Katsuji; and Goto, Naohisa, 4,641,366, Cl. 455-89.000.
Yokoyama, Yukio, 4,644,361, Cl. 343-700.0MS.
Yoshida, Atsushi, 4,665,534, Cl. 375-106.000.
Yoshida, Masaaki, 4,672,614, Cl. 371-38.000.
Yoshida, Yasuharu, 4,703,282, Cl. 329-50.000.
Yoshihara, Koichi, 4,670,365, Cl. 430-5.000.
Yoshihara, Masashi; and Yano, Kazuo, 4,691,377, Cl. 455-256.000.
Yoshihara, Shigeo; and Miyashita, Hideo, 4,677,688, Cl. 455-82.000.
Yoshimoto, Makoto, 4,688,207, Cl. 370-13.000.
Yoshioka, Takakazu, 4,634,897, Cl. 307-359.000.
Yotsutani, Akio; Makino, Masayuki; Saegusa, Noboru; and Sone, Tomoshi, 4,640,986, Cl. 379-60.000.
Yukawa, Akira, 4,661,802, Cl. 340-347.0DA.
NEC Home Electronics Ltd.: *See*—
Agata, Kazuhiro, 4,682,903, Cl. 400-121.000.
Kumasaka, Toru; Kamiji, Koichi; and Ohya, Toshikazu, 4,673,912, Cl. 340-52.00R.
Kumasaka, Toru; Ohya, Toshikazu; and Kamiji, Koichi, 4,701,628, Cl. 307-9.000.
Morishita, Masanobu, 4,658,291, Cl. 358-92.000.
Morishita, Masanobu, 4,677,468, Cl. 358-88.000.
Nishikawa, Shunji, 4,707,746, Cl. 358-23.000.
NEC Kansai, Ltd.: *See*—
Fujita, Yuji, 4,652,872, Cl. 340-781.000.
Necakov, Ivan: *See*—
Duffy, Christene; and Necakov, Ivan, 4,653,671, Cl. 222-105.000.
Necchi Societa per Azioni: *See*—
Bisson, Flavio, 4,712,494, Cl. 112-121.120.
Neckers, Douglas C.: *See*—
Saffran, Murray; and Neckers, Douglas C., 4,663,308, Cl. 514-3.000.
Necoechea, R. Warren, to Fairchild Semiconductor Corporation. Multiple level voltage comparator circuit. 4,647,796, 3-3-87, Cl. 307-360.000.
Nedele, Walter: *See*—
Schmidt, Henning; Nedele, Walter; and Schmodde, Hermann, 4,713,948, Cl. 66-106.000.
Nedelec, Lucien; Fauveau, Patrick; Hamon, Gilles; and Oberlander, Claude, to Roussel Uclaf. Use of pyrazolobenzoxazines in method of treating cerebral senescence and cerebral hypoxia. 4,661,482, 4-28-87, Cl. 514-227.000.
Nedelec, Lucien; Hamon, Gilles; Fauveau, Patrick; and Oberlander, Claude, to Roussel Uclaf. Novel 7-hydroxy-indoles. 4,694,011, 9-15-87, Cl. 514-323.000.
Nedelec, Lucien, to Roussel Uclaf. Methods of inducing neuron protective activity. 4,703,050, 10-27-87, Cl. 514-277.000.
Nedelec, Lucien: *See*—
Gasc, Jean-Claude; Nedelec, Lucien; Rettien, Claude; and Nanopoulos, Dinah W., 4,699,907, Cl. 514-232.000.
Torelli, Vesperto; Nedelec, Lucien; Moguilewski, Martine; and Moura, Anne-Marie, 4,701,449, Cl. 514-175.000.
Neder, Gunter; Schurger, Rainer; and Ernst, Horst M., to SKF GmbH. Sealed rolling bearing. 4,643,594, 2-17-87, Cl. 384-478.000.
Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek: *See*—
De Wit, Jan B., 4,708,287, Cl. 237-8.00R.
Gelderloos, Pouwel J., 4,691,525, Cl. 62-101.000.
Houpt, Pieter M.; and Wielandt, Ralph T., 4,711,126, Cl. 73-293.000.
Seppen, Jan J.; and van der Weide, Jouke, 4,635,609, Cl. 123-568.000.
Thijssen, Henricus A. C.; and Arkenbout, Gerardus J., 4,666,456, Cl. 23-296.000.
Verbeek, Pieter W.; Klaase, Petrus T. A.; and Theil, Arne, 4,712,037, Cl. 310-323.000.
Nederlandse Industriele Maatschappij Nefit B.V.: *See*—
Pelleboer, Nicolaas, 4,697,787, Cl. 251-315.000.
Nederman, Bill P. P., to AB Ph. Nederman & Company. Filter cleaning device. 4,661,129, 4-28-87, Cl. 55-218.000.
Nederveld, Terrill L., to Packaging Corporation of America. Container for produce and the like. 4,645,122, 2-24-87, Cl. 229-45.00R.
Nedoluha, Heinz F., to Coleman Company, Inc., The. Inhaul boom end for sailboard boom assembly. 4,681,052, 7-21-87, Cl. 114-98.000.
Nedoluha, Heinz F., to Coleman Company, Inc., The. Outhaul boom end part for sailboard boom assembly. 4,696,248, 9-29-87, Cl. 114-39.000.
Nedstedt, Gert: *See*—
Berlin, Bo; and Nedstedt, Gert, 4,715,791, Cl. 417-274.000.
Nedwig, Otto: *See*—
Kaempfe, Joerg; Meurer, Wolfgang; Kammel, Hans; and Nedwig, Otto, 4,651,644, Cl. 101-423.000.
Kaempfe, Joerg; Meurer, Wolfgang; and Nedwig, Otto, 4,703,692, Cl. 101-425.000.
Nee, Hanphire H., to CBS Inc. Method of manufacturing fine-grained copper substrate for optical information carrier. 4,673,467, 6-16-87, Cl. 204-23.000.
Nee, John D.; and Hahn, Joseph J., to Westinghouse Electric Corp. Tool for cutting locking cups from guide tube mounting screws in a nuclear reactor. 4,690,593, 9-1-87, Cl. 408-80.000.
Nee, John D.: *See*—
Spofford, Bruce S.; Fucich, Lorraine; Howell, David A.; Nee, John D.; and Green, Richard A., 4,675,961, Cl. 29-33.00K.
Nee, Victor W. Ceiling fan. 4,693,673, 9-15-87, Cl. 416-199.000.
Neeb, Rudolf; and Mohr, Reinhard, to Hoechst Aktiengesellschaft. Process for the preparation of chlorozincate salts of benzo thiazolium azo dyestuffs by alkylating with dialkylsulfate in aqueous medium in the presence of Zn-containing acid acceptor at pH ≦ 7. 4,638,053, 1-20-87, Cl. 534-589.000.
Neece, Vernon R.: *See*—
Mansour, James D.; Schulte, Thomas H.; and Neece, Vernon R., 4,693,972, Cl. 435-34.000.
Needham, Alan, to Domino Printing Sciences Limited. Hydraulic system for recirculating liquid. 4,658,268, 4-14-87, Cl. 346-1.100.
Needham, Donald G.; and Leland, John E., to Phillips Petroleum Company. Laser printable polyarylene sulfide compositions process for encapsulating articles with optional laser printing. 4,654,225, 3-31-87, Cl. 427-53.100.
Needham, Donald G., to Phillips Petroleum Company. Polymers and rotationally molding same. 4,668,461, 5-26-87, Cl. 264-310.000.
Needham, Eric, to Engelhard Corporation. Controlled electrical contacts for electrical switchgear. 4,685,019, 8-4-87, Cl. 361-2.000.
Needham, James R.: *See*—
Smith, Glenn C.; Needham, James R.; and Turnbull, William T., 4,639,176, Cl. 411-468.000.
Needham, Robert F., to ACF Industries, Incorporated. Coaxial operating rod and packing seal for top-operated, bottom outlet valve in railway tank car and method of aligning same. 4,641,677, 2-10-87, Cl. 137-15.000.
Needleman, Nathan. Shock absorber testing apparatus. 4,633,703, 1-6-87, Cl. 73-11.000.
Needling, Michael C.: *See*—
Giatras, James L.; Mang, Warren G.; Marino, Charles P.; Needling, Michael C.; and Pezdirtz, George F., 4,701,345, Cl. 427-45.100.

Needs, Kathy A.: *See*—
Syvarth, Anne S.; Gordin, Harvey H.; Early, Paul D., Jr.; Needs, Kathy A.; and Perfetti, Thomas A., 4,711,255, Cl. 131-330.000.
Needs Kiko Co., Ltd.: *See*—
Itoh, Kenkichi; Matsui, Takao; and Murakami, Toshio, 4,658,950, Cl. 198-577.000.
Needs, Steve. Measuring device. 4,644,663, 2-24-87, Cl. 33-486.000.
Neefe, Charles W. Molding toric contact lenses using a directed stream of gas. 4,636,338, 1-13-87, Cl. 264-2.100.
Neefe, Charles W. Gyroscopically stabilized spin cast machine. 4,637,791, 1-20-87, Cl. 425-425.000.
Neefe, Charles W. Spin cast ocular cosmetic device with color separation. 4,639,105, 1-27-87, Cl. 351-162.000.
Neefe, Charles W. Method of selectively tinting cast lenses. 4,640,805, 2-3-87, Cl. 264-1.100.
Neefe, Charles W. Fluorescent corneal color change device. 4,657,363, 4-14-87, Cl. 351-162.000.
Neefe, Charles W. Method of spin casting an ophthalmic device with a central aperture. 4,659,522, 4-21-87, Cl. 264-2.100.
Neefe, Charles W. Method of molding bifocal contact lenses. 4,659,524, 4-21-87, Cl. 264-2.500.
Neefe, Charles W. Method of making a spin cast gradient light absorbing contact lens. 4,666,640, 5-19-87, Cl. 264-2.100.
Neefe, Charles W. Method of making a contact lens material which may be identified by colored fluorescence. 4,695,396, 9-22-87, Cl. 252-301.350.
Neefe, Charles W., to Bausch & Lomb Incorporated. Cosmetic contact lens. 4,701,038, 10-20-87, Cl. 351-162.000.
Neefe, Charles W. Method of molding an eye color change contact lens blank. 4,710,327, 12-1-87, Cl. 264-1.700.
Neefe, Charles W. Method of making an eye color change contact lens. 4,710,328, 12-1-87, Cl. 264-1.700.
Neeff, Rutger: *See*—
Blunck, Martin; Claussen, Uwe; Krock, Friedrich W.; and Neeff, Rutger, 4,689,171, Cl. 252-299.100.
Rolf, Meinhard; and Neeff, Rutger, 4,666,526, Cl. 106-309.000.
Rolf, Meinhard; Neeff, Rutger; and Muller, Walter, 4,709,019, Cl. 534-655.000.
Neel, Jean-Philippe; and Trahin, Jean-Pierre, to Merlin Gerin. Low voltage circuit breaker with improved breaking. 4,672,157, 6-9-87, Cl. 200-144.00R.
Neel, Jean-Philippe; Case, Roger; and Garnier, Gilbert, to Merlin Gerin. Moulded case circuit breaker. 4,710,738, 12-1-87, Cl. 335-172.000.
Neel, Thomas C.: *See*—
McKittrick, David P.; Neel, Thomas C.; and Carey, John M., 4,653,962, Cl. 405-286.000.
Neeley, Walter P., to Mobil Oil Corporation. Method for locating an on-bottom seismic cable. 4,641,287, 2-3-87, Cl. 367-19.000.
Neeley, Walter P., to Mobil Oil Corporation. Ocean bottom seismometer. 4,692,906, 9-8-87, Cl. 367-15.000.
Neely, Judith L., to Polaroid Corporation. Photographic camera with electronic flash having periodically disabled charging apparatus. 4,641,943, 2-10-87, Cl. 354-413.000.
Neenan, Thomas X.: *See*—
Allcock, Harry R.; Austin, Paul E.; and Neenan, Thomas X., 4,636,387, Cl. 514-89.000.
Neer, Robert M.; Potts, John T., Jr.; and Slovik, David M., to General Hospital Corporation, The. Method of increasing bone mass. 4,698,328, 10-6-87, Cl. 514-12.000.
Neering, Michael J.: *See*—
Barr, John T., IV; Neering, Michael J.; Fullmer, Douglas E.; Oblad, Roger P.; Cannon, Wayne C.; and Elmore, Glenn E., 4,641,086, Cl. 324-77.00R.
Cannon, Wayne C.; and Neering, Michael J., 4,644,486, Cl. 364-570.000.
Sharrit, David D.; Neering, Michael J.; Donecker, S. Bruce; Roos, Mark D.; Cannon, Wayne C.; and Barr, John T., IV, 4,661,767, Cl. 324-57.00R.
Nees, Friedbert; Werle, Peter; Reissmann, Gunther; and Merk, Wolfgang, to Degussa Aktiengesellschaft. Process for the production of aromatic glycidyl esters. 4,667,044, 5-19-87, Cl. 549-539.000.
Nees, Friedbert: *See*—
Broecker, Franz J.; Duembgen, Gerd; Fouquet, Gerd; Krabetz, Richard; Merger, Franz; and Nees, Friedbert, 4,638,085, Cl. 560-208.000.
Nees, Stephan, to Buhler, Edmund, a part interest. Apparatus for the pure preparation of particles, biological cell systems and colloids. 4,648,863, 3-10-87, Cl. 494-17.000.
Neese, Gerhard, to FAG Kugelfischer Georg Schafer (KGaA). Cage for tapered roller bearings. 4,707,152, 11-17-87, Cl. 384-572.000.
Neese, Wayne E.; and Kubik, Charles K., to GTE Communication Systems Corp. Fastener and receptacle arrangement for perpendicularly connecting pieces of flat stock material. 4,657,423, 4-14-87, Cl. 403-21.000.
Neeser, Timothy A., to Minnesota Valley Engineering, Inc. Carbonated beverage storage and dispensing system and method. 4,683,921, 8-4-87, Cl. 141-1.000.
Neff, Darold L.: *See*—
Jones, Earl W., Jr.; and Neff, Darold L., 4,650,402, Cl. 416-157.00R.
Neff, Dennis B., to Phillips Petroleum Company. Data processing. 4,635,239, 1-6-87, Cl. 367-47.000.
Neff, Laurence M. Pig apparatus. 4,663,795, 5-12-87, Cl. 15-104.06R.
Neff, Mary S.: *See*—
Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis, James K.; Neff, Mary S.; Urquhart, Robert J.; and Williams, Susan C., 4,672,571, Cl. 364-900.000.
Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David A.; Landis, James K.; Neff, Mary S.; Urquhart, Robert J.; and Williams, Susan C., 4,701,851, Cl. 364-419.000.
Neff, Monty L.: *See*—
Osborn, Wayne L.; and Neff, Monty L., 4,688,459, Cl. 83-698.000.
Neft, Charles L., to Westinghouse Electric Corp. Unrestricted frequency changer switch topology. 4,685,049, 8-4-87, Cl. 363-159.000.
Neft, Charles L., to Westinghouse Electric Corp. AC power supplied static switching apparatus having energy recovery capability. 4,697,230, 9-29-87, Cl. 363-163.000.
Negev Phosphates Ltd.: *See*—
Alexander, Iosef; and Bar-on, Menachem, 4,678,649, Cl. 423-308.000.
Negi, Shigeto: *See*—
Saito, Isao; Nomoto, Seiichiro; Kamiya, Takashi; Yamauchi, Hiroshi; Sugiyama, Isao; Machida, Yoshimasa; and Negi, Shigeto, 4,698,336, Cl. 514-202.000.
Negi, Taichi; Kawasaki, Akihiko; and Ikari, Kyoichiro, to Kuraray Co., Ltd. Resinous composition and molded article and container made thereof. 4,645,695, 2-24-87, Cl. 428-35.000.
Negi, Taichi: *See*—
Aoyama, Akimasa; Moritani, Takeshi; Yonezu, Kiyoshi; Negi, Taichi; and Okaya, Takuji, 4,713,296, Cl. 428-412.000.
Negi, Tsuneo, to Canon Kabushiki Kaisha. Data communication system. 4,710,925, 12-1-87, Cl. 371-5.000.
Negi, Virendra S.: *See*—
Keeley, James W.; Ledoux, Robert V.; and Negi, Virendra S., 4,667,288, Cl. 364-200.000.
Keeley, James W.; Ledoux, Robert V.; and Negi, Virendra S., 4,686,621, Cl. 364-200.000.
Negishi, Akira: *See*—
Kondo, Kiyoshi; Matsui, Kiyohide; Negishi, Akira; and Takahatake, Yuriko, 4,681,953, Cl. 549-65.000.
Negishi, Hideo; and Wakabayashi, Mikiya, to Sanden Corporation. Article dispensing mechanism for vending of cylindrical articles. 4,685,590, 8-11-87, Cl. 221-241.000.
Negishi, Kenji: *See*—
Oosaka, Shigenori; and Negishi, Kenji, 4,713,706, Cl. 360-104.000.
Negishi, Masami: *See*—
Mabe, Atsushi; and Negishi, Masami, 4,673,340, Cl. 418-15.000.
Negishi, Masataka. Device for changing light width and direction. 4,657,355, 4-14-87, Cl. 350-452.000.
Negishi, Masataka. Method for forming partial films on uneven surfaces of objects. 4,670,095, 6-2-87, Cl. 156-655.000.
Negishi, Shigeyuki; and Satake, Kouichi, to Sanoh Kogyo Kabushiki Kaisha. System for heating interior spaces of engine-driven vehicles. 4,667,876, 5-26-87, Cl. 237-12.30A.
Negishi, Takao; and Kojima, Teiryo, to Toray Industries, Inc. Sewing thread and method for manufacturing the same. 4,656,825, 4-14-87, Cl. 57-289.000.
Negishi, Takeshi. Data distributor capable of selecting an optional partial data signal and distribution device comprising a plurality of the data distributors. 4,689,784, 8-25-87, Cl. 370-58.000.
Negishi, Yoshio, to Kabushiki Kaisha Showa Seisakusho. Corrosion-resistant motor casing. 4,700,093, 10-13-87, Cl. 310-89.000.
Negishi, Yoshio: *See*—
Ohsaka, Yohnosuke; Amimoto, Yoshio; and Negishi, Yoshio, 4,683,289, Cl. 528-402.000.
Negoro, Tatsuo, to NEC Corporation. Dielectric insulation type semiconductor integrated circuit having low withstand voltage devices and high withstand voltage devices. 4,692,784, 9-8-87, Cl. 357-49.000.
Negra, Serge D.; and Le Beyec, Yvon, to Centre National de la Recherche Scientifique. Process for determining mass spectrum by time of flight and spectrometer carrying out this process. 4,677,295, 6-30-87, Cl. 250-287.000.
Negra, Serge D.: *See*—
Le Beyec, Yvon; and Negra, Serge D., 4,694,168, Cl. 250-287.000.
Negre, Didier: *See*—
Fabre, Pierre; and Negre, Didier, 4,688,443, Cl. 74-469.000.
Negri, Emilio: *See*—
Mustarelli, Piercarlo; Lupoli, Franco; and Negri, Emilio, 4,699,228, Cl. 177-212.000.
Negro, Claudio P.: *See*—
Egert, Allen C.; Casey, Charles J.; and Negro, Claudio P., 4,667,931, Cl. 251-340.000.
Negron-Crespo, Jorge L. Apparatus for modifying building blocks. 4,691,684, 9-8-87, Cl. 125-3.000.
Negrutsky, Boris F.: *See*—
Negrutsky, Sergei B.; Klimov, Sergei B.; Negrutsky, Boris F.; and Churkin, Vladimir G., 4,712,772, Cl. 254-264.000.
Negrutsky, Sergei B.; Churkin, Vladimir G.; and Chunikhin, Mikhail I., to Upravlenie Po Montazhu, Demontazhu I Remontu Gornoshakhtnogo Oborudovania "Spetsshakhtomontazh". Hoisting apparatus. 4,703,835, 11-3-87, Cl. 187-17.000.
Negrutsky, Sergei B.; Klimov, Sergei B.; Negrutsky, Boris F.; and Churkin, Vladimir G. Power hydraulic gear. 4,712,772, 12-15-87, Cl. 254-264.000.
Nehen, Ulrich: *See*—
Runzheimer, Hans-volker; Nehen, Ulrich; and Jabs, Gert, 4,687,853, Cl. 546-121.000.

Nehezipari Muszaki Egyetem: *See*—
Bader, Imre; Berecz, Endre; Szina, Gabor; and Horvath, Janos, 4,639,304, Cl. 204-413.000.

Nehls, Harold W. Swimming pool cleaning brush. 4,703,535, 11-3-87, Cl. 15-1.700.

Nehmer, Carl A., and Hocken, Lary R., to General Motors Corporation. Adaptive controller for a motor vehicle engine throttle operator. 4,684,866, 8-4-87, Cl. 318-696.000.

Nehren, Klaus: *See*—
Walkowiak, Michael; Nehren, Klaus; Podszun, Wolfgang; and Finger, Werner, 4,707,504, Cl. 523-109.000.

Nehring, John R., to C. R. Bard, Inc. Pulsatile pump. 4,662,829, 5-5-87, Cl. 417-395.000.

Nehring, John R., to C. R. Bard, Inc. Suction canister with disposable liner and check valve. 4,681,571, 7-21-87, Cl. 604-320.000.

Nehring, Jurgen: *See*—
Amstutz, Hermann; Kaufmann, Meinolph; Nehring, Jurgen; and Scheffler, Terry J., 4,705,359, Cl. 350-341.000.

Nehring, Rudolf: *See*—
Otte, Werner; and Nehring, Rudolf, 4,695,660, Cl. 568-830.000.

Nei, Atsushi: *See*—
Niwa, Kazuhiro; Tsunekawa, Masaharu; and Nei, Atsushi, 4,652,955, Cl. 360-121.000.

NEI Canada Limited: *See*—
Browne, John; and Dennis, Matthew, 4,706,398, Cl. 40-449.000.

Neidhard, Klaus: *See*—
Buchschmid, Emil; Frenznick, Anton; Neidhard, Klaus; and Robl, Gerhard, 4,652,818, Cl. 324-174.000.

Neidhart, Peter: *See*—
Dahler, Peter; Neidhart, Peter; Sadek, Kadry; and Stemmler, Herbert, 4,639,846, Cl. 363-39.000.

Neidig, Arno; Leukel, Bernd; and Hettmann, Hubert, to Brown, Boveri & Cie AG. Static converter module with mounting lugs. 4,636,580, 1-13-87, Cl. 174-52.0PE.

Neidig, Arno; Leukel, Bernd; and Bergmann, Lutz, to Brown, Boveri & Cie AG. Power transistor module. 4,639,759, 1-27-87, Cl. 357-74.000.

Neidig, Arno; Akyurek, Altan; and Hettmann, Hubert, to Brown, Boveri & Cie AG. Rectifier module. 4,670,771, 6-2-87, Cl. 357-74.000.

Neidig, Arno: *See*—
Berndes, Gunter; Neidig, Arno; and Mayer, Eckhard, 4,672,415, Cl. 357-38.000.

Neidigk, Steven F. Hydraulic load binder. 4,706,343, 11-17-87, Cl. 24-68.00R.

Neidlinger, Hermann H.; Schissel, Paul O.; and Orth, Richard A., to United States of America, Energy. Pervaporation separation of ethanol-water mixtures using polyethylenimine composite membranes. 4,659,590, 4-21-87, Cl. 427-244.000.

Neier, Wilhelm: *See*—
Brandes, Gunter; Neier, Wilhelm; and Webers, Werner, 4,705,808, Cl. 521-30.000.
Osterburg, Gunther; Gluzek, Karl-Heinz; and Neier, Wilhelm, 4,709,106, Cl. 568-917.000.

Neigel, Dennis, to National Starch and Chemical Corporation. Process for the manufacture of chloroacetaldehyde dialkyl acetals. 4,642,389, 2-10-87, Cl. 568-604.000.

Neigel, Dennis, to National Starch and Chemical Corporation. Process for the manufacture of acetals of chloroacetaldehyde. 4,642,390, 2-10-87, Cl. 568-604.000.

Neiger, Benjamin B., to Leviton Manufacturing Company, Inc. Fiber optic wiring device control system. 4,704,656, 11-3-87, Cl. 361-173.000.

Neiger, Henri J. C.; Genot, Claude M.; Prud'Hon, Gerard C.; and Schoens, Michel, to Merobel - Societe Anonyme Fracaise. Constant force exercise device. 4,678,184, 7-7-87, Cl. 272-129.000.

Neiheisel, Gary L., to Armco Inc. Method and apparatus for measuring wear in the lining of refractory furnaces. 4,708,482, 11-24-87, Cl. 356-376.000.

Neil, Iain A., to Barr & Stroud Limited. Infrared afocal refractor telescope. 4,659,171, 4-21-87, Cl. 350-1.200.

Neil, Iain A., to Barr & Stroud Limited. Infrared optical system. 4,695,119, 9-22-87, Cl. 350-1.200.

Neil, James E.: *See*—
Sachs, Frederick; Auerbach, Anthony; McGarrigle, Richard G.; and Neil, James E., 4,695,709, Cl. 219-494.000.

Neil, Jeffrey T., to GTE Laboratories Incorporated. Process for sintering silicon nitride articles. 4,696,778, 9-29-87, Cl. 264-65.000.

Neil, Jeffrey T.: *See*—
Bandyopadhyay, Gautam; French, Kenneth W.; Bowen, Leslie J.; and Neil, Jeffrey T., 4,708,838, Cl. 264-63.000.

Neil, Lawrence F., to Dow Chemical Company, The. Process for removing residual salts from epoxy novolacs. 4,696,982, 9-29-87, Cl. 525-507.000.

Neil, Robert B.; and Adleman, George L., to Hewlett-Packard Company. Smoothing discontinuities in the display of serial parallel line segments. 4,679,039, 7-7-87, Cl. 340-728.000.

Neill, David C. Jack bolt assembly. 4,671,324, 6-9-87, Cl. 138-44.000.

Neill, Paul L.; Bryce, Kenneth L.; and Lancaster, Gerald M., to Dow Chemical Company, The. Ethylene copolymers reacted with metal oxides. 4,666,988, 5-19-87, Cl. 525-196.000.

Neilsen, Hildaur L. Key retaining device. 4,662,199, 5-5-87, Cl. 70-389.000.

Neilsen, Hildaur L.; and Davi, Richard A., to Rolodex Corporation. Heavy duty paper punch. 4,688,457, 8-25-87, Cl. 83-468.000.

Neilson, Bruce H.: *See*—
Moore, Gary L.; Neilson, Bruce H.; Kauphusman, James V.; and Sharrow, James S., 4,669,465, Cl. 128-303.100.

Neilson, John M. S.; and Brackelmanns, Norbert W., to RCA Corporation. MOSFET with reduced bipolar effects. 4,639,762, 1-27-87, Cl. 357-23.800.

Neilson, John M. S.: *See*—
Wheatley, Carl F., Jr.; Neilson, John M. S.; and Russell, John P., 4,639,754, Cl. 357-23.400.

Neiman: *See*—
Le Creff, Rene, 4,668,542, Cl. 428-31.000.
Neyret, Guy, 4,685,313, Cl. 70-186.000.

Neiman, Michael R., to Damper Design, Inc. Apparatus for sealing dampers. 4,655,241, 4-7-87, Cl. 137-240.000.

Neiman S.A.: *See*—
Lipschutz, Paul, 4,649,272, Cl. 250-229.000.
Weber, Gunter, 4,658,610, Cl. 70-252.000.

Neisen, Gerald F.: *See*—
Entringer, David C.; and Neisen, Gerald F., 4,634,391, Cl. 440-75.000.

Neiss, Edward S.; Stevenson, David; Ho, Laurence L.; Liu, Robert C.; and Suh, John T., to USV Pharmaceutical Corporation. Amide analogs of calcitonin. 4,650,854, 3-17-87, Cl. 530-307.000.

Neiss, Edward S.; Suh, John T.; and Piwinski, John J., to USV Pharmaceutical Corporation. Compounds having angiotensin converting enzyme inhibitory activity and diuretic activity. 4,661,515, 4-28-87, Cl. 514-471.000.

Neiss, Edward S.: *See*—
Piwinski, John J.; Suh, John T.; Menard, Paul; Jones, Howard; Neiss, Edward S.; and Regan, John R., 4,666,906, Cl. 514-222.000.
Suh, John T.; Piwinski, John J.; Jones, Howard; and Neiss, Edward S., 4,696,939, Cl. 514-361.000.

Neissel, John P.: *See*—
Wimpee, Lealon C.; Sturtz, John P.; and Neissel, John P., 4,634,568, Cl. 376-154.000.

Neisser, Mark O.: *See*—
Indyk, Richard F.; Lamelas, Francisco J.; and Neisser, Mark O., 4,663,186, Cl. 427-57.000.

Neki, Shigeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Takashi, to Matsushita Electric Industrial Co., Ltd. Sewing machine with reference speed correction by dimensional ratio between motor- and armshaft-pulleys. 4,676,180, 6-30-87, Cl. 112-277.000.

Neki, Shigeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Takashi, to Matsushita Electric Industrial Co., Ltd. Sewing machine control apparatus. 4,691,653, 9-8-87, Cl. 112-275.000.

Neki, Shigeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Takashi, to Matsushita Electric Industrial Co., Ltd. Variable speed control with selectively enabled counter circuits. 4,710,688, 12-1-87, Cl. 318-603.000.

Neki, Shigeo: *See*—
Shibata, Nobuho; Yasunobu, Isamu; Neki, Shigeo; Ohara, Kenichi; and Dohi, Takashi, 4,682,095, Cl. 318-778.000.

Nekrasov, Ignaty N.: *See*—
Volchinov, Gennady A.; Lysenko, Evgeny E.; Ioshpa, Vladimir G.; Tolochko, Alexei I.; Shokul, Anatoly A.; and Nekrasov, Ignaty N., 4,676,487, Cl. 266-194.000.

Nekut, Anthony G., Jr., to Standard Oil Company. Method of electromagnetic exploration. 4,663,593, 5-5-87, Cl. 324-345.000.

Nelb, Robert G., II; Onder, Kemal; Rausch, Karl W.; and Vanderlip, John A., to Dow Chemical Company, The. Method for increasing the molecular weight of polyamides and polyesteramides. 4,672,094, 6-9-87, Cl. 525-440.000.

Nelen, Petrus R., to AGFA-Gevaert N.V. Vacuum contact exposure apparatus. 4,711,570, 12-8-87, Cl. 355-91.000.

Neles OY: *See*—
Pyotsia, Jousi K. and Yli-Koski, Esko T., 4,691,894, Cl. 251-127.000.

Nelfcor Incorporated: *See*—
Goldberger, Daniel S.; Corenman, James E.; and McCord, Kenneth R., 4,685,464, Cl. 128-633.000.
New, William, Jr.; and Corenman, James E., 4,653,498, Cl. 128-633.000.
New, William, Jr.; and Corenman, James E., 4,700,708, Cl. 128-633.000.

Nellen, Johannes H. M., Slegers, Frans; Otten, Johannes H. B.; and Kole, Johannus W. G., to U.S. Philips Corporation. Generator for generating a high d.c. voltage. 4,660,139, 4-21-87, Cl. 363-68.000.

Nelles, Uwe: *See*—
Bitschkus, Horst; Hofmann, Manfred; and Nelles, Uwe, 4,667,942, Cl. 267-140.100.

Nelmor Co., Inc.: *See*—
West, G. Allan; Barnes, William W.; Dunnane, Thomas J.; and Andrews, Herbert K., 4,635,862, Cl. 241-51.000.

Nels, Terry E.; Eldridge, Larry; and Doty, Gerald L., to General Motors Corporation. Clutch plate member having layer of high durability, self-conforming friction facing. 4,639,392, 1-27-87, Cl. 428-283.000.

Nelsen, Charles E.; and Mannion, Catharine, to Plant Genetics, Inc. Membrane-coated hydrogel encapsulated nematodes. 4,701,326, 10-20-87, Cl. 424-408.000.

Nelsen, Christopher P.; and Melton, Robert L., to Dana Corporation. Vibration detector. 4,683,753, 8-4-87, Cl. 73-655.000.

Nelson, Alan E.: *See*—
Bernstein, Robert E.; and Nelson, Alan E., 4,682,755, Cl. 251-4.000.

Nelson, Alec L., to Sperry Corporation. Digital phase and frequency detector. 4,639,680, 1-27-87, Cl. 328-134.000.

Nelson, Anthony J.: *See*—
Devonald, David P.; Nelson, Anthony J.; Quan, Peter M.; and Stewart, David, 4,696,801, Cl. 423-24.000.
Quan, Peter M.; and Nelson, Anthony J., 4,675,172, Cl. 423-658.500.

Nelson, Arvid L., to Cooper Industries, Inc. Methods and apparatus for producing uniform discharge and suction flow rates. 4,666,374, 5-19-87, Cl. 417-3.000.

Nelson, Barton R.; Meyer, Larry P.; and Sesser, George L., to Nelson Irrigation Corporation. Rotary sprinkler head. 4,660,766, 4-28-87, Cl. 239-222.170.

Nelson, Bertel S., to Wedgtrac Corporation. Gear mechanism for brake adjustment. 4,644,812, 2-24-87, Cl. 74-425.000.

Nelson, Bill W. Methods and apparatus for producing steam without a boiler. 4,706,611, 11-17-87, Cl. 122-5.50A.

Nelson, Blaine J., to Rockwell International Corporation. Linear all-digital phase locked loop. 4,712,223, 12-8-87, Cl. 377-43.000.

Nelson, Blaine J., to Rockwell International Corporation. Offset digitally controlled oscillator. 4,712,224, 12-8-87, Cl. 377-43.000.

Nelson, Blaine J., to Rockwell International Corporation. Phase quantizer apparatus. 4,712,225, 12-8-87, Cl. 377-43.000.

Nelson, Blaine J.: *See*—
Blake, John K.; and Nelson, Blaine J., 4,635,277, Cl. 375-20.000.

Nelson, Carib: *See*—
Uken, William D.; Dubrow, Robert S.; Nelson, Carib; and Dittmer, Catherine A., 4,690,831, Cl. 427-44.000.

Nelson, Carl: *See*—
Genoa, Joseph; Kaskel, Harold; and Nelson, Carl, 4,652,063, Cl. 339-15.000.

Nelson, Catherine E.; Crowley, Dennis E.; and Weatherford, Wayne M., to Borden, Inc. Calcium-fortified milk. 4,701,329, 10-20-87, Cl. 426-74.000.

Nelson, Charles R.; and Thomas, Hugh, to Imperial Chemical Industries PLC. Fabric conditioners. 4,701,268, 10-20-87, Cl. 252-8.800.

Nelson, Daniel L. Pavement extractor. 4,659,250, 4-21-87, Cl. 404-90.000.

Nelson, Darrel S.: *See*—
Wang, Chen-Shih; and Nelson, Darrel S., 4,662,969, Cl. 156-253.000.

Nelson, David; Biddison, William; Rubin, Laurence; Greene, Warner; Leonard, Warren; and Yarchoan, Robert, to United States of America, Health and Human Services. Soluble interleukin-2 receptor as a disease indicator and a method of assaying the same. 4,707,443, 11-17-87, Cl. 435-7.000.

Nelson, David A., to Rockwell International Corporation. Multichannel DME ranging system. 4,642,639, 2-10-87, Cl. 342-47.000.

Nelson, David A., to Rockwell International Corporation. DME morse code identity decoder. 4,651,158, 3-17-87, Cl. 342-45.000.

Nelson, David A., to Comlinear Corporation. Compensation and biasing of widebard amplifiers. 4,713,628, 12-15-87, Cl. 330-254.000.

Nelson, David A.: *See*—
James, Brian R.; Li-Lee, Chung; Lilga, Michael A.; and Nelson, David A., 4,693,875, Cl. 423-243.000.

Nelson, David C.; Fresh, Michael J.; and Mueller, Herbert, to Ballon-Mueller AG. Balloon holder. 4,715,841, 12-29-87, Cl. 446-222.000.

Nelson, David L.; Truskolaski, Bernard S.; and Hansen, Paul E., to Minnesota Mining and Manufacturing Company. Decorative ribbon and sheet material. 4,634,612, 1-6-87, Cl. 428-4.000.

Nelson, Deanna; and Rowe, Bruce. Nutrient monoesters. 4,665,057, 5-12-87, Cl. 514-23.000.

Nelson, Deanna; and Rowe, Bruce, to Baxter Travenol Laboratories, Inc. Nutrient polyesters. 4,701,443, 10-20-87, Cl. 514-23.000.

Nelson, Dennis L.: *See*—
Calltharp, Glen R.; Norcross, Kenneth L., III; and Nelson, Dennis L., 4,645,592, Cl. 210-142.000.
Calltharp, Glen R.; Norcross, Kenneth L., III; and Nelson, Dennis L., 4,648,967, Cl. 210-136.000.
Calltharp, Glen R.; Norcross, Kenneth L., III; and Nelson, Dennis L., 4,711,716, Cl. 210-136.000.

Nelson, Donald C. Fish rod transport clamp. 4,707,892, 11-24-87, Cl. 24-336.000.

Nelson, Doran W.: *See*—
Albright, Donald R.; Jones, William D.; and Nelson, Doran W., 4,667,148, Cl. 324-51.000.

Nelson, E. Delbert, Jr. Construction bolt holder. 4,641,478, 2-10-87, Cl. 52-704.000.

Nelson, Edward C.; and Sweeney, William M., to Texaco Inc. Detergent and corrosion inhibiting additive and motor fuel composition containing same. 4,670,021, 6-2-87, Cl. 44-66.000.

Nelson, Edward I. High rise fire escape mechanism. 4,674,599, 6-23-87, Cl. 182-231.000.

Nelson, Erik B., to Dowell Schlumberger Incorporated. Novel ferrofluids for use in cementing wells. 4,691,774, 9-8-87, Cl. 166-291.000.

Nelson, G. Douglas; and Vazopolos, Steve, to Monsanto Company. Method and tablet for sanitizing toilets. 4,654,341, 3-31-87, Cl. 514-241.000.

Nelson, Gary A.; Godding, Patrick N.; Schumaker, Richard E.; Walter, Keith D.; Marrone, Edward S.; Gates, Stillman E.; Rigsbee, Everett O., III; and Teener, Michael D., to CXC Corporation. Variable bandwidth switching system. 4,679,191, 7-7-87, Cl. 370-84.000.

Nelson, Gary E. Quick squeeze tool. 4,643,054, 2-17-87, Cl. 81-352.000.

Nelson, Gary J.: *See*—
Wiethoff, Roger H.; and Nelson, Gary J., 4,700,609, Cl. 89-46.000.

Nelson, Gary W. Simplified universal drawer guiding system. 4,645,359, 2-24-87, Cl. 384-19.000.

Nelson, George A.: *See*—
Chaffee, Edwin G.; Holtman, Steve; Nelson, George A.; and Tanner, Howard M. C., 4,633,872, Cl. 128-303.100.

Nelson, George C.; and Quaintance, Roger L., to Cyclonaire Corporation. Diverter valve. 4,669,505, 6-2-87, Cl. 137-874.000.

Nelson, George F.: *See*—
Hastings, Roger N.; Sauter, Gerald F.; and Nelson, George F., 4,689,559, Cl. 324-248.000.

Nelson, George L., to United States of America, Navy. Conversion of prostaglandin analogs into a bicarbonate insoluble oligomeric mixture. 4,663,486, 5-5-87, Cl. 568-353.000.

Nelson, George L., to United States of America, Navy. Conversion of prostaglandin analogs into a bicarbonate insoluble oligomeric mixture. 4,668,828, 5-26-87, Cl. 568-353.000.

Nelson, Gerald C. Grate for artificial log. 4,640,263, 2-3-87, Cl. 126-164.000.

Nelson, Gordon J. Door security device. 4,684,160, 8-4-87, Cl. 292-340.000.

Nelson, Gunner E., to Ethyl Corporation. Preparation of dialkyldialkoxysilanes and related compounds. 4,683,321, 7-28-87, Cl. 556-478.000.

Nelson, Gunner E., to Ethyl Corporation. Preparation of alkyl silanes. 4,711,965, 12-8-87, Cl. 556-478.000.

Nelson, Gunner E., to Ethyl Corporation. Preparation of alkyl silanes. 4,711,966, 12-8-87, Cl. 556-478.000.

Nelson, Gunner E.: *See*—
Malcolm, Arcelio J.; Everly, Charles R.; and Nelson, Gunner E., 4,670,574, Cl. 556-478.000.

Nelson, H. Wharton, to Combustion Engineering, Inc. Method of decreasing ash fouling. 4,664,042, 5-12-87, Cl. 110-347.000.

Nelson, Harold L., to General Electric Company. Flow channel to nozzle attachment for nuclear fuel assembly. 4,663,118, 5-5-87, Cl. 376-445.000.

Nelson, Harold L.; Dunlap, Thomas G.; Johansson, Eric B.; and Matzner, Bruce, to General Electric Company. Nuclear fuel assembly with large coolant conducting tube. 4,675,154, 6-23-87, Cl. 376-444.000.

Nelson Industries, Inc.: *See*—
Barker, Irvy T., 4,697,668, Cl. 181-262.000.
Eriksson, Larry J.; Allie, Mark C.; and Hoops, Richard H., 4,665,549, Cl. 381-71.000.
Eriksson, Larry J., 4,677,676, Cl. 381-71.000.
Eriksson, Larry J., 4,677,677, Cl. 381-71.000.
Iles, Lawrence F.; and Goplen, Gary D., 4,712,643, Cl. 181-231.000.
Khosropour, Mostafa M., 4,707,166, Cl. 55-213.000.
Printiss, Frederick H., Sr.; and Barker, Irvy T., 4,640,536, Cl. 285-367.000.

Nelson Irrigation Corporation: *See*—
Meyer, Larry P., 4,669,663, Cl. 239-230.000.
Nelson, Barton R.; Meyer, Larry P.; and Sesser, George L., 4,660,766, Cl. 239-222.170.
Sesser, George L., 4,676,438, Cl. 239-722.000.

Nelson, Iver L.: *See*—
Seiter, George M.; Klitzke, Loren J.; and Nelson, Iver L., 4,643,878, Cl. 422-101.000.

Nelson, Jack: *See*—
Oliver, Larry R.; Hill, James D., Jr.; Lewis, Charles M.; Hollaway, Gerald C., Jr.; and Nelson, Jack, 4,690,665, Cl. 474-245.000.

Nelson, James A., to Ryko Manufacturing Company. Vehicle wash and dryer. 4,685,169, 8-11-87, Cl. 15-302.000.

Nelson, James E.: *See*—
Michael, Anthony J.; and Nelson, James E., 4,656,398, Cl. 315-293.000.

Nelson, James L. Dispensing and cooling apparatus. 4,679,408, 7-14-87, Cl. 62-390.000.

Nelson, Jeffrey D.; and Scanlon, John F., to Sundstrand Corporation. Ballistic tolerant dual load path ballscrew and ballscrew actuator. 4,679,485, 7-14-87, Cl. 89-36.020.

Nelson, Jeffrey D.; and Scanlon, John F., to Sundstrand Corporation. Ballistic tolerant dual load path ballscrew and ballscrew actuator. 4,715,262, 12-29-87, Cl. 89-36.020.

Nelson, Jeremiah; and Kupersmith, Mark J., to New York University. Method and apparatus for visual-evoked responses. 4,676,611, 6-30-87, Cl. 351-205.000.

Nelson, John A.; and Robinson, Dale L., to Burroughs Corporation. Magnetically sealed multichip integrated circuit package. 4,661,886, 4-28-87, Cl. 361-399.000.

Nelson, John C. Retrieving images stored on windowed discs. 4,679,922, 7-14-87, Cl. 353-25.000.

Nelson, John D.: *See*—
Babcock, John W.; Wormus, Ronald K.; and Nelson, John D., 4,668,129, Cl. 405-284.000.

Nelson, John E.; Grossheim, Edward T.; and Perelman, Franklin M., to Gould Inc. Circuit for processing digital image data in a high resolution raster display system. 4,673,929, 6-16-87, Cl. 340-703.000.

Nelson, John E.; and Smith, Raymond J., to Vetco Gray, Inc. Pressure energized rotary hydraulic seal. 4,700,924, 10-20-87, Cl. 251-58.000.

Nelson, John L., Jr.: *See*—
Marlow, Raymond; and Nelson, John L., Jr., 4,698,636, Cl. 342-104.000.

Nelson, John M., to Newell Companies, Inc. Low pressure gas torch burner. 4,666,399, 5-19-87, Cl. 431-264.000.

Nelson, John T., to Amsted Industries Incorporated. Mold with removed cooling structure and method for constructing the same. 4,669,524, 6-2-87, Cl. 164-137.000.

n, John W.; to Belco Industries Incorporation. Laterally-disen-eable bearing system. 4,653,344, 3-31-87, Cl. 74-570.000.
n, Jonathan M. Chair frame. 4,674,795, 6-23-87, Cl. 297-239.000.
n, Jordan R.; and Wissing, William K., to RCA Corporation. ge display including improved light-absorbing matrix. 4,682,075, 87, Cl. 313-466.000.
, Kenneth L., to King-Seeley Thermos Co. Ice making appara-4,682,475, 7-28-87, Cl. 62-354.000.
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Marvin A. Hexagram game board, apparatus and game. 134, 8-4-87, Cl. 273-261.000.
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Marvin I. Dispenser for attachment to liquid containers. 556, 5-26-87, Cl. 222-180.000.
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Norvell J.: *See*—
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Alan S., 4,657,925, Cl. 514-438.000.
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Nelson, Richard E. Press having novel guide bars. 4,643,017, 2-17-87, Cl. 72-446.000.
Nelson, Richard L., Jr. Long intestinal catheter with sump. 4,676,778, 6-30-87, Cl. 604-45.000.
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Nelson, Robert E.; Ziegler, Anton A.; Serino, David F.; and Basnar, Paul J., to United States of America, Energy. Radioactive waste processing apparatus. 4,666,676, 5-19-87, Cl. 422-159.000.
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Hottel, Hoyt C.; Nelson, Robert E.; and Parent, C. Robert, 4,707,560, Cl. 136-253.000.
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Nelson, Robert G., to Timeback Systems, Inc. Methods and apparatus for analog to digital conversion. 4,683,456, 7-28-87, Cl. 340-347.0AD.
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Nelson, Robert L., to United States of America, Navy. Simple diver reentry method. 4,662,580, 5-5-87, Cl. 244-3.100.
Nelson, Robert L.; and Ryan, Frederick M., to Westinghouse Electric Corp. System for remote chemical analysis. 4,663,961, 5-12-87, Cl. 73-24.000.
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Holming, Robert; Nelson, Robert S.; and Daley, Thomas R., 4,715,546, Cl. 241-171.000.
Nelson, Roger E.; and Lucky, Clyde L., to Sierracin Corporation. Optical disk transmission monitor for deposited films. 4,676,883, 6-30-87, Cl. 204-298.000.
Nelson, Ronald J.; and Wilson, Randall B., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Buried heterostructure devices with unique contact-facilitating layers. 4,661,961, 4-28-87, Cl. 372-46.000.
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Nelson, Roy E. Packaging tape. 4,647,485, 3-3-87, Cl. 428-43.000.
Nelson, Sidney G., Jr., to Sanitech, Inc. Ion-selective water filter. 4,711,718, 12-8-87, Cl. 210-282.000.
Nelson, Stanford C. Pilferage deterrent device for lading carrying vehicles, such as boxcars and the like. 4,647,088, 3-3-87, Cl. 292-136.000.
Nelson, Stephen J., to Upjohn Company, The. Spiroketals and process for preparing same. 4,680,419, 7-14-87, Cl. 549-343.000.
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Nelson, Stephen M. Adjustable support for a computer system. 4,635,893, 1-13-87, Cl. 248-558.000.
Nelson, Stephen R., to Kerr-McGee Refining Corporation. Solvent recovery from solvent process material mixtures. 4,666,562, 5-19-87, Cl. 203-93.000.
Nelson, Steve: *See*—
Torres, Ronald; Mayer, Edward; and Nelson, Steve, 4,696,656, Cl. 446-376.000.

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Nelson, Terrence L.; and Kraker, Thomas J. Four-wheel, reclining position cycle. 4,674,762, 6-23-87, Cl. 280-282.000.

Nelson, Terry L.: *See*—
Wallace, Robert S.; Goldey, Ian C.; and Nelson, Terry L., 4,655,425, Cl. 248-311.200.

Nelson, Terry N., to Specialty Mfg. Co., The. Combination wall mount, caddy mount garden hose reel. 4,700,737, 10-20-87, Cl. 137-355.270.

Nelson, Theodore G.; and Diller, Calvin D., to Tektronix, Inc. Fast recovery amplifier. 4,691,174, 9-1-87, Cl. 330-260.000.

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Nelson, Thomas L., to Du Pont de Nemours, E. I., and Company. Process for the production of twist-free novelty nub yarns. 4,697,317, 10-6-87, Cl. 28-258.000.

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Nelson, Thomas W.: *See*—
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Nelson, Victor H. Means for cyclically enhancing driving torque. 4,662,644, 5-5-87, Cl. 280-214.000.

Nelson, Warren B. Pipeline monorail system. 4,635,559, 1-13-87, Cl. 104-119.000.

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Nelson, Wendall: *See*—
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McKay, Robert S.; Robbins, Thomas A.; and Nelson, William D., 4,670,991, Cl. 33-565.000.
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Nemcoes, James J.: *See*—
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Nemet-Mavrodin, Margaret, to Mobil Oil Corporation. Selective hydrogenation of acetylenic impurities in crude butadiene. 4,704,492, 11-3-87, Cl. 585-259.000.

Nemeth, Attila; Dolozselek, Gyula; Mikics, Laszlo; Molnar, Bela; Sallai, Mihaly; Liska, Sandor; and Speck, Gyula, to BHG Hiradastechnikai Vallalat. Single or multi-stage switching field for telephone exchanges. 4,670,901, 6-2-87, Cl. 379-292.000.

Nemeth, Edward J.: *See*—
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Nemeth, Endre: *See*—
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Nemeth, Joseph C.; and Watkins, Richard L., to Gates Corporation, The. Elastomeric switch control device. 4,677,268, 6-30-87, Cl. 200-159.00B.

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Nemit, Paul, Jr.: *See*—
Pillis, Joseph W.; Murphy, David A.; Spellar, Peter C.; and Nemit, Paul, Jr., 4,678,406, Cl. 417-310.000.

Nemmer, Albert E.; Nemmer, Albert W.; and Nemmer, Joseph E. Building side wall construction and panel therefor. 4,633,634, 1-6-87, Cl. 52-474.000.

Nemmer, Albert W.: *See*—
Nemmer, Albert E.; Nemmer, Albert W.; and Nemmer, Joseph E., 4,633,634, Cl. 52-474.000.

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Nemnich, Charles L.; and Hoyt, Charles D., to Ferrotec, Inc. Apparatus and method for measuring movement. 4,706,498, 11-17-87, Cl. 73-516.00R.

Nemo, Thomas E., to Standard Oil Company (Indiana). Detergent lubricant compositions. 4,705,643, 11-10-87, Cl. 252-51.50A.

Nemori, Ryoichi: *See*—
Mukunoki, Yasuo; Yokoyama, Shigeki; Kawasaki, Hiroshi; Nemori, Ryoichi; and Takeuchi, Tetsuo, 4,649,102, Cl. 430-527.000.

Nemoto, Akira; and Watanabe, Takao, to Tachikawa Spring Co., Ltd. Headrest device for a vehicle seat. 4,671,573, 6-9-87, Cl. 297-410.000.

Nemoto, Akira: *See*—
Kamide, Takao; Ueda, Norio; and Nemoto, Akira, 4,634,332, Cl. 414-273.000.
Miyashita, Norio; and Nemoto, Akira, 4,641,884, Cl. 297-284.000.

Nemoto, Hiroshi: *See*—
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Nemoto, Koji: *See*—
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Nemoto, Masakazu: *See*—
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Nenkov, Nikolay D.; Petrov, Ivan B.; and Peev, Stoyko P., to Vish Minno-Geolojki Institute. Fixing mechanism for a wireline core barrel of core drilling equipment. 4,664,204, 5-12-87, Cl. 175-44.000.

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vata, Yutaka; and Nerone, Louis R., 4,691,273, Cl. 363-132.000.
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Karl A.; and Windish, Willis E., to Caterpillar Inc. Counter- ansmission auxiliary drive mechanism. 4,660,425, 4-28-87, Cl. 60.
Karl A.; and Windish, Willis E., to Caterpillar Inc. Counter- ansmission. 4,676,116, 6-30-87, Cl. 74-360.000.
Nerstrom, James S., to Outboard Marine Corporation. Two-cycle internal combustion engine including means for varying cylinder port timing. 4,660,514, 4-28-87, Cl. 123-65.0PE.
Nervig, Charles H.; and Dimmick, Vance E., to American Greetings Corporation. Page type display fixture with self return feature. 4,678,086, 7-7-87, Cl. 211-47.000.
Nesbitt, R. Dennis: *See*—
Melvin, Terence; and Nesbitt, R. Dennis, 4,679,795, Cl. 273-235.00R.
Nesbitt, Richard L.; and Sievers, Ricky R. Flower saddle for tombstones. 4,640,045, 2-3-87, Cl. 47-66.000.
Nesbitt, Russell U.: *See*—
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Nesbitt, Russell U., Jr.: *See*—
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Nesheim, Ludwig D.: *See*—
Hanson, Daniel R.; and Nesheim, Ludwig D., 4,695,258, Cl. 439-67.000.
Nesin, William Z., to Roto Systems, Inc. Closure handling apparatus. 4,699,261, 10-13-87, Cl. 198-398.000.
Nesland, Nickolas B. Sprayer head. 4,676,435, 6-30-87, Cl. 239-112.000.
Nesmith, David V.: *See*—
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Martelli, Nerio; Ottaviani, Alvaro; and Sauba, Pierluigi, 4,669,960, Cl. 425-388.000.
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Nespor, Ronald R. Vehicle lifting and towing device. 4,674,943, 6-23-87, Cl. 414-563.000.
Nespor, Tony. Battery powered thermal wire stripper. 4,650,961, 3-17-87, Cl. 219-233.000.
Nespor, Tony. Thermal wire stripper. 4,672,865, 6-16-87, Cl. 81-9.400.
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Ness, Ervin D.; and Shorter, Walter E. Self-stabilizing tree support assemblies. 4,649,666, 3-17-87, Cl. 47-43.000.
Ness, John B., to University of Queensland; and Commonwealth of Australia, The. Microstrip antenna. 4,651,159, 3-17-87, Cl. 343-700.0MS.
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Nessler, Charles G.: *See*—
Doherty, James E.; and Nessler, Charles G., 4,663,241, Cl. 428-547.000.
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Hayes, Michael E.; Hass, Gary R.; Sharpe, Robert; Nestaas, Eirik; and Ostrovsky, Mikhail V., 4,706,749, Cl. 166-267.000.
Neste Oy: *See*—
Ahlfors, Matts; Koskimies, Salme; Lahtinen, Leila; and Idelman, Peter, 4,694,099, Cl. 560-75.000.
Alvila, Leila; Krause, Outi; Pakkanen, Tapani; and Joutsimo, Matteus, 4,652,539, Cl. 502-74.000.
Bergstrom, Christer, 4,639,398, Cl. 428-451.000.
Lofgren, Barbro U.; Luciani, Luciano; Seppanen, Hanneli; Stjernberg, Maria H.; and Iiskola, Eero I., 4,673,661, Cl. 502-111.000.
Pulkkinen, Jorma, 4,695,188, Cl. 405-150.000.
Seppala, Jukka, 4,690,991, Cl. 526-158.000.
Turunen, Olli T.; Huttenen, Jouko; Selin, Johan-Fredrik; Fors, Jan; and Eklund, Vidar, 4,639,514, Cl. 536-30.000.
Turunen, Olli T.; Huttunen, Jouko; Selin, Johan-Fredrik; Fors, Jan; and Eklund, Vidar, 4,639,515, Cl. 536-30.000.
Venalainen, Tapani; Pakkanen, Tapani; Pakkanen, Tuula; and Iiskola, Eero, 4,699,775, Cl. 423-655.000.
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Ackermann, Horst W.; Masek, Petr; and Servaux, Jean, 4,679,701, Cl. 220-404.000.
Akesson, Yngve R., 4,687,674, Cl. 426-549.000.
Bertholet, Raymond, 4,692,534, Cl. 549-456.000.
Bohlen, Dietrich, 4,715,511, Cl. 220-403.000.
Cazin, Pierre, 4,712,683, Cl. 206-478.000.
Hettiarachchy, Navagnana S.; Muffett, Dorothy J.; and Wedral, Elaine R., 4,699,664, Cl. 106-288.000Q.
Hirsbrunner, Pierre; and Bertholet, Raymond, 4,652,711, Cl. 260-501.130.
Hsu, Jau Y., 4,675,199, Cl. 426-557.000.
Hsu, Sheng-Hsiung, 4,640,839, Cl. 426-285.000.
Invernizzi, Rutilio; and Montesissa, Giancarlo, 4,666,723, Cl. 426-414.000.
Lee, Eldon C., 4,668,772, Cl. 530-407.000.
Les Viet, Toai, 4,659,890, Cl. 219-10.55M.
Leuba, Jean-Louis; Meyer, Inge; and Andersen, Else M., 4,701,339, Cl. 426-643.000.
Loliger, Willi, 4,667,699, Cl. 138-31.000.
Lunder, Tito-Livio; Hoffmann, Birgit; and Nielsen, Corine-Madeleine, 4,680,193, Cl. 426-597.000.
Margolis, Geoffrey; Mercier, Alain; and Schlecht, Klaus, 4,701,333, Cl. 426-432.000.

Persson, Tyko; Duc, Heribert; and Buhler, Marcel, 4,650,685, Cl. 426-285.000.
Prella, Giovanni, 4,716,045, Cl. 426-63.000.
Svengren, Anders G.; and Ganrot, Bertil A., 4,640,670, Cl. 425-142.000.
Svengren, Anders G., 4,659,580, Cl. 426-516.000.
Traitler, Helmut; and Winter, Heike, 4,703,060, Cl. 514-549.000.
Tuot, James, 4,702,799, Cl. 159-48.100.
Wenger, Ulrich; and Horiuchi, Tatsuya, 4,675,202, Cl. 426-614.000.
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Le Viet, Toai, 4,694,133, Cl. 219-10.55M.
Liu, Richard T.; Nickerson, Winston R.; and Anderson, Charles H., 4,634,598, Cl. 426-650.000.
Nguyen, Tuan; Hirsbrunner, Pierre; and Weymuth, Hans, 4,636,399, Cl. 426-629.000.

Nestegard, Sander C. Multiple exercise unit. 4,684,121, 8-4-87, Cl. 272-97.000.

Nestell, David E., to Prince Corporation. Visor mounting bracket. 4,634,196, 1-6-87, Cl. 339-5.00R.

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Nerli, Giovanni; Nesti, Solitario; Grego, Francesco; Bottos, Roberto; and Ferro, Francesco, 4,698,960, Cl. 57-401.000.

Nestle & Fischer: *See—*
Rickus, Edmund, 4,673,287, Cl. 356-4.000.

Nestlen, Wolfgang; and Rudolf, Reiner, to Hengstler GmbH Geschaftsbereich Haller-Relais. Small-size switching relay in miniature embodiment. 4,709,219, 11-24-87, Cl. 335-129.000.

Nestler, Eric, to Symbolics Inc. Light pipe for an optical mouse. 4,716,287, 12-29-87, Cl. 250-227.000.

Nestler, Gerhard: *See—*
Dietrich, Gerhard; Nestler, Gerhard; Ruckh, Peter; and Herzog, Reinhard, 4,675,436, Cl. 560-205.000.

Nestler, Hans J.: *See—*
Becherer, Johannes; Handte, Reinhardt; Nestler, Hans J.; and Kussmaul, Ulrich, 4,714,766, Cl. 548-217.000.

Nestler, Heinz: *See—*
Barfurth, Dieter; and Nestler, Heinz, 4,647,680, Cl. 556-40.060.

Nestler, Richard F. Product dispenser. 4,645,036, 2-24-87, Cl. 186-55.000.

Nestler, Volker; and Olsowski, Wolfgang, to H. Maihak AG. Method and apparatus for measurement of the concentration of a component of a mixture. 4,641,973, 2-10-87, Cl. 356-418.000.

Nestlerode, C. Dale, to Hughes Aircraft Company. Fast tuning RF network inductor. 4,701,732, 10-20-87, Cl. 334-56.000.

Nestor, Charles R.; Maga, Raymond A.; and Bensing, Gregory L., to General Motors Corporation. Electrical component packaging assembly. 4,679,885, 7-14-87, Cl. 439-620.000.

Nestor, Charles R.: *See—*
Pavlak, John J.; and Nestor, Charles R., 4,641,911, Cl. 339-276.00T.
Plyler, Robert G.; and Nestor, Charles R., 4,653,841, Cl. 339-176.00L.

Nestor, John J., to Syntex (U.S.A.) Inc. N,N'-dialkyl substituted guanidino amino acyl residue substituted GRF-analog peptides. 4,659,693, 4-21-87, Cl. 514-12.000.

Nestor, John J.; and Vickery, Brian H., to Syntex (U.S.A.) Inc. ω-Guanidino-substituted-α-amino acids. 4,698,442, 10-6-87, Cl. 562-560.000.

Nestor, John J., Jr.; and Vickery, Brian H., to Syntex (U.S.A.) Inc. Nonapeptide and decapeptide analogs of LHRH, useful as LHRH antagonists. 4,667,014, 5-19-87, Cl. 530-313.000.

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Neth, Harald. Control circuit. 4,701,958, 10-20-87, Cl. 381-68.000.

Nethery, John L., Jr.: *See—*
Berry, Peter F.; Miller, Wendell D.; and Nethery, John L., Jr., 4,686,694, Cl. 378-120.000.

Neti, R. Murty: *See—*
Harman, John N., III; and Neti, R. Murty, 4,650,562, Cl. 204-420.000.

Neti, Radhakrishna M.; and Harman, John N., III, to Beckman Industrial Corporation. Method for treating electrodes and improved electrochemical cell. 4,655,900, 4-7-87, Cl. 204-415.000.

Neti, Radhakrishna M.: *See—*
Harman, John N., III; and Neti, Radhakrishna M., 4,707,244, Cl. 204-430.000.

Netoff, Theodore F.: *See—*
Marshall, William F.; and Netoff, Theodore F., 4,649,821, Cl. 102-206.000.

Netolicky, Charles E.: *See—*
Dvorak, Robert F.; and Netolicky, Charles E., 4,638,133, Cl. 200-302.100.
Dvorak, Robert F.; Netolicky, Charles E.; and Palmer, Neil R., 4,681,061, Cl. 116-279.000.

Netravali, Arun N.: *See—*
Budrikis, Zigmantas L.; Hatamian, Mehdi; Kubik, Peter S.; and Netravali, Arun N., 4,705,942, Cl. 250-227.000.

Netsch, Robert L.: *See—*
McMickle, Robert L.; Rumbaugh, James T.; and Netsch, Robert L., 4,641,860, Cl. 285-38.000.

Netsch, Walter A., Jr. Design game and modules for use therein. 4,651,993, 3-24-87, Cl. 273-157.00R.

Netstal-Maschinen AG: *See—*
Laimer, Friedrich; and Neugebauer, Hermann, 4,648,827, Cl. 425-208.000.

Nettel, Hans, to Toni-Kap-Co. Quick release cover. 4,701,089, 10-20-87, Cl. 411-373.000.

Nettelbeck, Klaus, McVay, James D.; and Take, Hermann, to Continuous Casting Systems Inc. Mold cooling apparatus and method for continuous casting machines. 4,660,619, 4-28-87, Cl. 164-455.000.

Netter, Aaron J. Automatic water line freeze control. 4,635,668, 1-13-87, Cl. 137-62.000.

Nettleship, Demetra D., executor: *See—*
Marshall, Christopher B.; Wilson, John F.; and Nettleship, Robert, deceased, 4,672,636, Cl. 375-88.000.

Nettleship, Robert, deceased: *See—*
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Nettleton, John E.: *See—*
Fox, Clifton S.; Nettleton, John E.; and Barr, Dallas N., 4,689,798, Cl. 372-82.000.
Sluss, Elmer C.; Nettleton, John E.; and Barr, Dallas N., 4,710,941, Cl. 372-87.000.

Nettmann, Ernst F., to Matthews Studio Electronics. Balancing gear apparatus for remote positioning device. 4,683,770, 8-4-87, Cl. 74-425.000.

Neturen Co., Ltd.: *See—*
Iwata, Takashi; Yokota, Seiji; Inoue, Yoshiaki; and Koizumi, Tadashi, 4,665,296, Cl. 219-121.0PR.
Yamazaki, Takao, 4,705,580, Cl. 148-154.000.

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McPherson, Thomas R., 4,712,217, Cl. 371-55.000.

Netzeband, William F.: *See—*
Murphy, John F.; Barton, William M., Jr.; Jacobs, Lynn C.; McGee, Jeffrey S.; Netzeband, William F.; and Johnson, Roger S., 4,704,645, Cl. 360-95.000.

Netzel, James P., to John Crane-Houdaille, Inc. Internally installable package seal. 4,669,738, 6-2-87, Cl. 277-40.000.

Netzer, Gabriel: *See—*
Groesch, Lothar; Netzer, Gabriel; and Kassing, Lothar, 4,701,132, Cl. 434-274.000.

Netzer, Ronald G. Life support carrying apparatus. 4,691,397, 9-8-87, Cl. 5-507.000.

Netznik, Frederick P. Quick disconnect locking coupler. 4,635,327, 1-13-87, Cl. 24-653.000.

Netznik, Frederick P. Cushion fabrication apparatus. 4,637,789, 1-20-87, Cl. 425-89.000.

Netzsch-Mohnopumpen GmbH: *See—*
Gries, Willi, 4,659,483, Cl. 210-709.000.
Hantschk, Gunther, 4,695,040, Cl. 254-264.000.

Neu, Horst W., to Northrop Corporation. Honeycomb cutter and chip breaker/chaf remover. 4,677,886, 7-7-87, Cl. 82-53.000.

Neu, Max G.; Gough, Michael J.; Ashton, Michael C.; and Wallis, Roger, to Foseco International Limited; and Steel Castings Research and Trade Association. Riser sleeves for metal casting moulds. 4,665,966, 5-19-87, Cl. 164-137.000.

Neubauer, Heinz, to Siemens Aktiengesellschaft. Endocardial electrode controllable to form selected contours. 4,677,990, 7-7-87, Cl. 128-786.000.

Neubauer, Jeffrey A.; Reese, Walter J.; and Spencer, Dennis O., to Azdel, Inc. Thermoplastic sheet. 4,692,375, 9-8-87, Cl. 428-299.000.

Neubauer, Jerry L.; Schmidt, Laurence J.; and Voss, Steven H., to International Business Machines Corporation. Shrink ring for disk clamping. 4,639,802, 1-27-87, Cl. 360-98.000.

Neubauer, John C.; and Rusche, Gerald A., to United States of America, Army. Method of and means for measuring performance of automatic target recognizers. 4,677,469, 6-30-87, Cl. 358-93.000.

Neubauer, Walter, to Linsinger Machinenbau Gesellschaft mbH. Process and apparatus for profiling rod-like workpieces. 4,692,989, 9-15-87, Cl. 29-558.000.

Neubauer, Walter: *See—*
Egner-Walter, Bruno; Neubauer, Walter; Schmid, Eckhardt; and Scholl, Wolfgang, 4,648,148, Cl. 15-250.210.

Neubauer, Wilhelm: *See—*
Wunning, Joachim; and Neubauer, Wilhelm, 4,653,732, Cl. 266-250.000.

Neubeck, Clifford E.: *See—*
Arbige, Michael V.; and Neubeck, Clifford E., 4,636,468, Cl. 435-198.000.

Neubert, Fritz: *See—*
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Neubert, Hans-Jurgen: *See—*
Baur, Karl; Haussinger, Peter; Fruhstorfer, Ludwig; and Neubert, Hans-Jurgen, 4,666,695, Cl. 423-571.000.

Neubert, Peter: *See—*
Witte, Ernst-Christian; Neubert, Peter; and Roesch, Andronikl, 4,670,439, Cl. 514-253.000.

Neubert, Vernon H.; and Perrone, Nicholas, to United States of America, Navy. Combination energy absorbing foundation. 4,711,424, 12-8-87, Cl. 248-636.000.

Neubrand, Theo, to Alfred Teves GmbH. Slip-controlled brake system for automotive vehicles. 4,643,487, 2-17-87, Cl. 303-114.000.

Neuder, David L.; and Zellmer, Joel A., to Hewlett-Packard Company. Timing or logic state analyzer with automatic qualified inferential marking and post processing of captured trace data. 4,641,348, 2-3-87, Cl. 382-1.000.

Neuelmann, Rolf; and Fortmann, Manfred, to Interatom GmbH. Method and apparatus for detecting faults in a structure by measuring voltage drop between surface points thereof. 4,683,419, 7-28-87, Cl. 324-64.000.

Neuenschwander, Kent W.: *See*—
Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Neuenschwander, Kent W., 4,668,673, Cl. 514-212.000.

Neuenschwander, Rudolf: *See*—
Gotchel, Joel P.; Norton, Henry J.; Neuenschwander, Rudolf; and Stango, Daniel J., 4,682,942, Cl. 425-103.000.

Neuer, Andreas; Grimmer, Eberhard; and Muller, Hartwig, to VEB Kombinat Textima. Needle selecting arrangement for knitting machines. 4,648,249, 3-10-87, Cl. 66-75.200.

Neuer, Andreas: *See*—
Grussel, Klaus; and Neuer, Andreas. 4,693,093, Cl. 66-75.100.

Neufeld, Henry L. Thumb stop with integral spring. 4,662,585, 5-5-87, Cl. 242-84.20A.

Neufeld, Jacob: *See*—
Scherbatskoy, Serge A.; and Neufeld, Jacob, 4,676,310, Cl. 166-65.100.

Neuffer, Kurt: *See*—
Schmid, Gunter; and Neuffer, Kurt, 4,669,016, Cl. 360-122.000.

Neufuss, Karel; Macku, Ales; Forejt, Antonin; and Kasik, Pavel, to Ceskoslovenska akademie ved. Protective layer for carbonaceous materials and method of applying the same. 4,707,379, 11-17-87, Cl. 427-34.000.

Neugebauer, Constantine A.: *See*—
Yerman, Alexander J.; and Neugebauer, Constantine A., 4,646,129, Cl. 357-74.000.

Neugebauer, Dieter, to Fichtel & Sachs AG. Fluid friction clutch. 4,653,625, 3-31-87, Cl. 192-58.00B.

Neugebauer, Dieter: *See*—
Brunken, Gerd; Gob, Werner; and Neugebauer, Dieter, 4,676,355, Cl. 192-58.00B.

Neugebauer, Hermann: *See*—
Laimer, Friedrich; and Neugebauer, Hermann, 4,648,827, Cl. 425-208.000.

Neuhalfen, Michael A.; Ridoux, Frank E.; and Edenborough, John S., to General Motors Corporation. Internal combustion engine ignition system. 4,711,226, 12-8-87, Cl. 123-609.000.

Neuhaus, Clemens; Lucks, Rudiger; Breidohr, Hans G.; and Wick, Gerhard, to Akzo N.V. Cross-counter-stream module for heat or mass exchange. 4,649,991, 3-17-87, Cl. 165-159.000.

Neuhaus, Detlev: *See*—
Abel, Joachim; Neuhaus, Detlev; Hesse, Karl-Heinz; Muller, Michael; and Lichterberg, Wolfgang, 4,665,362, Cl. 324-208.000.
Ulbrich, Gerald; and Neuhaus, Detlev, 4,649,341, Cl. 324-207.000.

Neuhaus, Hans, to Polytype AG. Apparatus for changing the surface tension of cup-like containers. 4,710,358, 12-1-87, Cl. 422-186.050.

Neuhaus, Josef, to Westermann Kommanditgesellschaft. Trash pail for installation in a cabinet having a swingable door. 4,639,050, 1-27-87, Cl. 312-273.000.

Neuhauser, Johannn; and Brauch, Hans-Joachim, to Salzgitter Maschinen und Anlagen Aktiengeselschaft. Pump drive for deep well pumping installations. 4,683,764, 8-4-87, Cl. 74-41.000.

Neuhauser, Karl-Heinz: *See*—
Krommer, Helmut; Neuhauser, Karl-Heinz; and Weiss, Stefan, 4,714,602, Cl. 423-369.000.

Neuhold, Arnold: *See*—
Mundt, Peter; and Neuhold, Arnold, 4,678,525, Cl. 156-73.100.
Mundt, Peter; Neuhold, Arnold; and Pohl, Claus, 4,685,785, Cl. 353-120.000.

Neukam, Christian: *See*—
Schmidt, Gerhard; Neukam, Christian; and Schmidt, Heinrich, 4,708,795, Cl. 210-304.000.

Neukermans, Armand P.; Boyden, James H.; and Garrettson, Garrett A., to Hewlett-Packard Company. Capacitive mask aligner. 4,654,581, 3-31-87, Cl. 324-61.00R.

Neukermans, Herman: *See*—
Schurmans, Jacques; Neukermans, Herman; Quibel, Jacques; and Dupont, Rene', 4,670,187, Cl. 252-373.000.

Neukomm, Hans R., to U.S. Philips Corporation. Semiconductor device having non-volatile storage transistors. 4,636,984, 1-13-87, Cl. 365-182.000.

Neukomm, Peter; and Augustin, Viktor, to Haenni & Cie AG. Optical measuring instrument for the contactless measurement of distances. 4,647,209, 3-3-87, Cl. 356-376.000.

Neulinger, Franz: *See*—
Alig, Franz; Bocker, Heinrich; Neulinger, Franz; and Schummer, Helmut, 4,690,694, Cl. 55-4.000.
Dallhammer, Richard; Donig, Gerhard; Gaul, Hartmut; Schmidt, Walter; Neulinger, Franz; and Schummer, Helmut, 4,670,829, Cl. 363-57.000.

Neumaier, Anton; Hoereth, Hans-Jurgen; and Rumpp, Gerhard, to Hilti Aktiengesellschaft. Drill bit chuck for drilling and cutting devices. 4,691,929, 9-8-87, Cl. 279-19.300.

Neuman, Eli, to Perfectdata Corporation. Micro floppy disc head cleaner. 4,682,257, 7-21-87, Cl. 360-128.000.

Neuman, Harold L.; and Lombardi, Edward J., to Aries Medical Incorporated. Intra-aortic balloon catheter having flexible torque transmitting tube. 4,646,719, 3-3-87, Cl. 128-1.00D.

Neuman, Richard C., to B. F. Goodrich Company, The. Melt processable CPVC blends. 4,710,533, 12-1-87, Cl. 524-394.000.

Neuman, Ronald R.: *See*—
Hames, Jeffrey L.; Lacey, Charles M.; Neuman, Ronald R.; and Reidenbach, John R., 4,661,729, Cl. 310-13.000.

Neumann, Bernhard, to General Motors Corporation. Automotive outside rearview mirror. 4,684,216, 8-4-87, Cl. 350-279.000.

Neumann, Bruno: *See*—
Maier, Helmut; Neumann, Bruno; and Schaafhausen, Ludwig R., 4,690,582, Cl. 403-252.000.

Neumann, David B.; and Hunt, Robert D. Fish securing device. 4,638,591, 1-27-87, Cl. 43-89.000.

Neumann, David K.: *See*—
Davis, Steven J.; Lilenfeld, Harvey V.; Neumann, David K.; and Whitefield, Phillip D., 4,653,062, Cl. 372-89.000.

Neumann, Dietmar J. Flexible bulk container. 4,643,475, 2-17-87, Cl. 296-10.000.

Neumann, Dietrich. Coupling head for pressure medium lines of pressure medium brake units in vehicles. 4,648,581, 3-10-87, Cl. 251-149.600.

Neumann, Donald F.: *See*—
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Neumann, Ewald, to Subklew, Christof. Front construction unit for electrical monitoring panel. 4,652,972, 3-24-87, Cl. 361-395.000.

Neumann, Frank D.: *See*—
Hardy, Richard; Neumann, Frank D.; and Ruzicka, Dennis E., 4,697,764, Cl. 244-137.400.

Neumann, Gerhard; and Ramisch, Hans, to Otto Dunkel GmbH Fabrik fur elektrotechnische Gerate. Method of manufacturing contact spring procedure. 4,693,002, 9-15-87, Cl. 29-882.000.

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Maurer, Paul-Gerhard; and Neupert, Daniel, 4,654,203, Cl. 423-240.000.

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Chung, James Y. J.; and Neuray, Dieter, 4,677,148, Cl. 524-298.000.

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Weingartner, Bernhard, 4,647,127, Cl. 339-48.000.
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Neuwirth, Helmuth, to Porta Systems Corp. Telephone protector module having self-contained sealing means. 4,675,779, 6-23-87, Cl. 361-119.000.

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Nevamar Corporation: *See*—
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Neve De Mevergnies, Marcel. Seat for vehicle, particularly motor vehicle. 4,676,550, 6-30-87, Cl. 297-353.000.

Neven, Jozef H. M.; Poortman, Boodewijn J.; Tromp, Wouter T.; and Stevens, Udo, to Rheometron AG. Sensor for magnetic-inductive flowmeters. 4,715,233, 12-29-87, Cl. 73-871.120.

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Neveu, Jean-Louis, to Spontex Incorporated. Pile cleaning material and needling method of making same. 4,645,699, 2-24-87, Cl. 428-95.000.

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Neville, Glen F., to Glenco Manufacturing, Inc. Method of coating the threads of a fastener. 4,701,348, 10-20-87, Cl. 427-57.000.

Nevin, Donald M. Apparatus for applying a light-curable dental composition. 4,673,353, 6-16-87, Cl. 433-90.000.

Nevin, Donald M. Hub for rotatable tool. 4,676,089, 6-30-87, Cl. 72-370.000.

Nevin, Donald M., to Buffalo Dental Manufacturing Co., Inc. Method for disinfecting dental impressions. 4,698,206, 10-6-87, Cl. 422-24.000.

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New Balance Athletic Shoe, Inc.: *See*—
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New, Bernard J., to Advanced Micro Devices, Inc. Method and apparatus for generating and summing the products of pairs of numbers. 4,692,888, 9-8-87, Cl. 364-728.000.

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New Castle Industries, Inc.: *See*—
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New Cosmos Electric Co., Ltd.: *See*—
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New, Dane S.; and Dove, Albert W. Aquatic sport device. 4,691,658, 9-8-87, Cl. 114-66.000.

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Cordry, Christopher D.; and Weeks, Stephen T., 4,687,206, Cl. 273-262.000.

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Hawiger, Jack J.; Timmons, Sheila; Lukas, Thomas J.; and Kloczewiak, Marek, 4,661,471, Cl. 514-13.000.
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New England Digital Corporation: *See*—
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New England Institute of Comparative Medicine: *See*—
Tashjian, Robert J.; and Moreland, Charles E., 4,694,481, Cl. 378-198.000.

New England Machinery, Inc.: *See*—
Bankuty, Geza E.; and Byron, LeRoy F., 4,696,144, Cl. 53-331.500.

w England Medical Center Hospitals, Inc.: *See*—
Babior, Bernard M., 4,639,373, Cl. 424-101.000.
w England Thermoplastics, Inc.: *See*—
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w Flite Inc.: *See*—
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w Holland Inc.: *See*—
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Bryant, Cal L.; Parrish, Charles A.; and Griffin, B. Franklin, Jr., 4,674,403, Cl. 100-4.000.
Dallinger, James F., 4,678,129, Cl. 241-101.700.
Glass, Emmett F.; and Howell, Edmund O., 4,715,171, Cl. 56-192.000.
Henderson, James S., 4,709,861, Cl. 239-675.000.
Hurlburt, Joseph C., 4,652,043, Cl. 296-190.000.
Jennings, Richard E., 4,656,820, Cl. 56-341.000.
Knepper, Larimer J., 4,707,972, Cl. 56-10.200.
Koch, Earl E.; and Voler, Franja F., 4,693,061, Cl. 56-13.600.
Linde, Gilbert W.; and Clevenger, James T., Jr., 4,669,670, Cl. 239-660.000.
Martenas, Wayne B., 4,678,130, Cl. 241-222.000.
Naaktgeboren, Adrianus; and Van Eecke, Roger H., 4,710,086, Cl. 414-44.000.
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Strong, Russell W., 4,711,075, Cl. 130-27.00J.
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Strosser, Richard P.; Bohman, Carl E.; and Chow, Mark K., 4,639,666, Cl. 324-202.000.
Van Den Bossche, Bart; and Vandecandelaere, Rene A., 4,656,930, Cl. 100-3.000.
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VanGinhoven, Robert M., 4,658,573, Cl. 56-341.000.
Voler, Franja F.; Hale, John K.; and Koch, Earl E., 4,653,253, Cl 56-13.600.
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Webster, Emmett G., 4,703,612, Cl. 56-11.900.
Wynn, Edward J.; Musser, Glenn A.; and Hall, Lawrence M., 4,641,490, Cl. 56-10.200.
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ew Horizons Diagnostics Corporation: *See*—
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ew Horizons Product Development Company Limited: *See*—
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ew Ideas Incorporated: *See*—
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Watanabe, Hiroshi; Johzuka, Takashi; and Suzuki, Masanobu, 4,691,376, Cl. 455-131.000.
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ew Jersey Machine Inc.: *See*—
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ew, Nigel H., to AE PLC. Bearings. 4,652,150, 3-24-87, Cl. 384-275.000.
ew Nippon Electric Co., Ltd.: *See*—
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ew Ocean Wind Products, Inc.: *See*—
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ew Process Industries, Inc.: *See*—
Benson, Glendon M., 4,642,988, Cl. 60-641.140.
ew Product, Inc.: *See*—
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ew, Richard, to Chevron Research Company. Pad-type inflatable seal for a removable bottom founded structure. 4,695,196, 9-22-87, Cl. 405-224.000.
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ew, Roger R. C.; and Theakston, Robert D. G., to National Research Development Corporation. Immunological compositions including a peptide and osmium or ruthenium tetroxide. 4,661,346, 4-28-87, Cl. 424-85.000.
New Super Laundry Machinery Co. Inc.: *See*—
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New West Technology Corporation: *See*—
Schumacher, John E., III; and Fisher, Gene A., 4,651,417, Cl. 29-848.000.
New, William, Jr.; and Corenman, James E., to Nellcor Incorporated. Pulse oximeter monitor. 4,653,498, 3-31-87, Cl. 128-633.000.
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New York Blood Center, Inc.: *See*—
Blomback, Birger; and Okada, Masahisa, 4,640,778, Cl. 210-484.000.
Prince, Alfred M.; and Vnek, John, 4,639,371, Cl. 424-86.000.
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New York Institute of Technology: *See*—
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Ranawat, Chitranjan S.; Straub, Lee R.; Inglis, Allan E.; and Burstein, Albert H., 4,714,476, Cl. 623-21.000.
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Neward, Theodore C. Container cap for liquid transfer. 4,700,861, 10-20-87, Cl. 215-309.000.
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Newberg, Phillip J., to Eliason Corporation. Molded door. 4,635,421, 1-13-87, Cl. 52-309.110.
Newberry, Claude A. Movable staging scaffold system for building construction. 4,640,383, 2-3-87, Cl. 182-38.000.
Newberry, Mark A.; and Kemper, Dennis C., to Gates Rubber Company, The. Safety hose. 4,679,599, 7-14-87, Cl. 138-104.000.
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Newbower, Ronald S.: *See*—
Trautman, Edwin D.; and Newbower, Ronald S., 4,676,252, Cl. 128-671.000.
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Newby, J. Parks: *See*—
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Newby, John P., Sr., to Southern Case, Inc. Plastic blow-molded articles with fold-up sides. 4,662,515, 5-5-87, Cl. 206-349.000.
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Newcamp, George C.; Johnston, Robert F., Jr.; McConnell, John F.; Ross, Paul R., Jr.; Caripolti, Richard A.; and Peter, John W., to PPG Industries, Inc. Support and drive system for rotating liquefaction vessel. 4,668,272, 5-26-87, Cl. 65-335.000.
Newco Enterprises, Inc.: *See*—
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Newcomb, Nelson F.; and Newcomb, Nelson F., Jr. Illuminated translucent golf ball. 4,695,055, 9-22-87, Cl. 273-213.000.

Newcomb, Nelson F., Jr.: *See*—
Newcomb, Nelson F.; and Newcomb, Nelson F., Jr., 4,695,055, Cl. 273-213.000.

Newcomb, Russell R.; and Black, William C., to Hughes Aircraft Company. Untrimmed 12 bit monotonic all capacitive A to D converter. 4,668,936, 5-26-87, Cl. 340-347.0AD.

Newcombe, William R., Jr.; Prysby, Daniel G.; Sanderson, Michael E.; and Schiller, David S., to Honeywell Inc. Receiver/driver/repeater interface. 4,670,886, 6-2-87. Cl. 375-3.000.

Newcomer, Paul A., to Paul A. Newcomer, Inc. Sit-up exercise apparatus. 4,653,747, 3-31-87, Cl. 272-93.000.

Newcor, Inc.: *See*—
Geiermann, Thomas J., 4,661,673, Cl. 219-64.000.

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Newell, Alfred T., III; and Nichols, E. Lane, to A. T. Newell Co. Inc. Electronic thermostat. 4,638,850, 1-27-87, Cl. 165-26.000.

Newell, Alfred T., III, to A. T. Newell Co. Inc. Environmental control system with humidity control and method. 4,659,009, 4-21-87, Cl. 236-44.00C.

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Newell, Alton S., Jr.: *See*—
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Newell, Bruce D.; Petronis, Thomas J.; and Krause, Lawrence R., to Applied Robotics Inc. Apparatus and method for connecting and exchanging remote manipulable elements to a central control source. 4,664,588, 5-12-87, Cl. 414-730.000.

Newell, Chester W.: *See*—
Henderson, James J.; and Newell, Chester W., 4,697,759, Cl. 242-179.000.

Newell Companies, Inc.: *See*—
Nelson, John M., 4,666,399, Cl. 431-264.000.

Newell Co.: *See*—
Graves, Delbert B., 4,674,550, Cl. 160-326.000.
Kahn, Jan E., 4,693,094, Cl. 66-117.000.
Tiffany, James J., 4,682,690, Cl. 206-305.000.

Newell Corporation: *See*—
Newkirk, Michael W., 4,664,051, Cl. 114-123.000.

Newell, Darrel E.; and O'Brien, Mary C., to Micro Research, Inc. Microprocessor controlled lighting system. 4,716,344, 12-29-87, Cl. 315-312.000.

Newell, Darrel E.: *See*—
Petridis, Petros; Newell, Darrel E.; and Hartman, Keneth D., 4,661,201, Cl. 156-628.000.

Newell, Douglas P. Scorpion lure. 4,667,434, 5-26-87, Cl. 43-42.470.

Newell, Harold R. to Mesur-Matic Electronics. Electronic string instrument with bend detector. 4,676,134, 6-30-87, Cl. 84-1.080.

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Newell, John M.: *See*—
Scott, Brian L.; and Newell, John M., 4,672,667, Cl. 381-41.000.

Newell, Kathryn H. Covered hammock. 4,686,720, 8-18-87, Cl. 5-121.000.

Newell, Richard A.: *See*—
Callen, Patrick J.; Bingley, John D.; and Newell, Richard A., 4,706,010, Cl. 323-225.000.

Newell, Robert E.; Rand, Paul K.; and Osterweil, Carole A., to Glaxo Group Limited. Dispensing device. 4,678,106, 7-7-87, Cl. 222-162.000.

Newell, Robert E. G.: *See*—
Chen, Wen-hsiung; Elliott, James P.; Newell, Robert E. G.; Nichols, Ralph E.; and Rackett, Albert E., 4,704,628, Cl. 358-136.000.

Newendorp, Vincent W.; and Van Zee, Daryl W., to Vermeer Manufacturing Company. Round baler with automatic steering system. 4,702,066, 10-27-87, Cl. 56-341.000.

Newham, Paul, to Marconi Company Limited, The. Cassegrain aerial system. 4,673,947, 6-16-87, Cl. 343-781.0CA.

Newhouse, H. Kent: *See*—
Costopoulos, Nick G.; and Newhouse, H. Kent, 4,659,385, Cl. 106-87.000.

Newiger, Winfried; Walch, Wolfgang; Rach, Harry; and Kiessling, Michael, to Klimsch & Co. KG. Exposure device. 4,707,116, 11-17-87, Cl. 355-30.000.

Newiger, Winifred: *See*—
Gelbert, Horst; Grimm, Walter; Kiessling, Michael; Newiger, Winifred; Walch, Wolfgang; and Werner, Hans, 4,666,294, Cl. 355-89.000.

Newkirk, Gary L.: *See*—
Bryan, Barry L.; Druckerman, Martin; McDowell, Allen W.; Schneider, Ira H.; and Newkirk, Gary L., 4,641,262, Cl. 364-900.000.

Newkirk, Marc S.; and Dizio, Steven F., to Lanxide Technology Company, LP. Novel ceramic materials and methods for making same. 4,713,360, 12-15-87, Cl. 501-87.000.

Newkirk, Michael W., to Newell Corporation. Three wheeler flotation conversion kit. 4,664,051, 5-12-87, Cl. 114-123.000.

Newland, Paul H.; and Briggs, Richard J. Baseball pitching practice apparatus. 4,657,250, 4-14-87, Cl. 273-26.00A.

Newlin, Thomas L., Jr. Weightlifting belt. 4,685,668, 8-11-87, Cl. 272-123.000.

Newlove, John C.; and McDougall, Lee A., to Exxon Research & Engineering Co. Method for controlled introduction of reagent into a liquid. 4,660,645, 4-28-87, Cl. 166-304.000.

Newlove, John C.: *See*—
McDougall, Lee A.; Newlove, John C.; and Haslegrave, John A., 4,670,166, Cl. 252-8.552.
Peiffer, Dennis G.; Lundberg, Robert D.; Sedillo, Lawrence; and Newlove, John C., 4,683,952, Cl. 166-293.000.
Sedillo, Lawrence P.; Newlove, John C.; and Portnoy, Robert C., 4,659,750, Cl. 523-130.000.

Newman, Anthony W.; and Bishop, Michael L., to DeSoto, Inc. Anticaking and antidusting composition. 4,689,251, 8-25-87, Cl. 427-220.000.

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Newman, Bruce A., to Conoco Inc. Premium coking process. 4,713,168, 12-15-87, Cl. 208-131.000.

Newman, Clarence R. Tennis net center strap. 4,671,509, 6-9-87, Cl. 273-29.0BA.

Newman, Daniel A.: *See*—
McMahan, Michael E.; Newman, Daniel A.; Winslow, Donald W.; and Zunkel, Gary D., 4,691,779, Cl. 166-321.000.
Ringgenberg, Paul D.; Newman, Daniel A.; and Beck, Harold K., 4,693,316, Cl. 166-355.000.

Newman, David J.: *See*—
Bowie, Betty A.; Newman, David J.; and Shearer, Marcia C., 4,672,036, Cl. 435-254.000.

Newman, Dawn: *See*—
Salstrom, John S.; Newman, Dawn; Harbrecht, Douglas F.; and Hu, Shiu-Lok, 4,634,678, Cl. 435-317.000.

Newman, Donald J., to Ogden Industries Pty. Ltd. Method and means for fixing door furniture. 4,699,409, 10-13-87, Cl. 292-357.000.

Newman, Donald J.: *See*—
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Newman-Evans, Richard H., to Union Carbide Corporation. Epoxy resins based on tetraglycidyl diamines. 4,680,341, 7-14-87, Cl. 525-113.000.

Newman, Geoffrey C. S.; Pilkington, Andrew L.; and Winch, Kenneth H., to Scortech Mech. Ltd. Simulation device. 4,710,129, 12-1-87, Cl. 434-55.000.

Newman, Gerard R.: *See*—
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Newman, Glenn E.: *See*—
Wijayarthna, Bandula; and Newman, Glenn E., 4,694,838, Cl. 128-658.000.

Newman, Goeffrey R.; Jasani, Bharat; and Williams, Edward D., to University of Wales College of Medicine, The. Detection of biological substances by specific labelling techniques. 4,687,736, 8-18-87, Cl. 435-7.000.

Newman, Harold C.; and Stoll, William M., to Kennametal Inc. Wear resistant facings for couplings. 4,666,797, 5-19-87, Cl. 428-681.000.

Newman, Howard: *See*—
Tomcufcik, Andrew S.; Marsico, Joseph W.; Eudy, Nancy H.; and Newman, Howard, 4,689,324, Cl. 514-89.000.

Newman, Howard F.: *See*—
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Newman, Hugh, Jr.: *See*—
Bezwada, Rao S.; Shalaby, Shalaby W.; Newman, Hugh, Jr.; and Kafrawy, Adel, 4,643,191, Cl. 128-335.500.

Newman, Hugh D., Jr.: *See*—
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Newman, Ira R.: *See*—
Affa, Steven N.; Newman, Ira R.; and Allison, Robert S., 4,691,741, Cl. 138-113.000.

Newman, Jeffrey S. to Factory Mutual Research Corporation. Fire identification and discrimination method and apparatus. 4,667,106, 5-19-87, Cl. 250-382.000.

Newman, John, to Rotaflex PLC. Electric sockets. 4,681,384, 7-21-87, Cl. 439-137.000.

Newman, John: *See*—
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Newman, John W.: *See*—
Sawran, William R.; Turrill, Frank H.; Newman, John W.; Hall, Norman W.; and Ward, Clifford, 4,671,864, Cl. 208-22.000.

Newman, Leon A.; and DeMaria, Anthony J., to United Technologies Corporation. Phase locked dielectric ridge gas laser. 4,688,228, 8-18-87, Cl. 372-18.000.

Newman, Lola; and Zelasko, Joseph. Detachable foam-borne mounting method. 4,678,150, 7-7-87, Cl. 248-205.300.

Newman, Malcolm: *See*—
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Newman, Martin H. Dental materials dispenser and applicator. 4,704,088, 11-3-87, Cl. 433-81.000.

Newman, Michael A.: *See*—
Edwards, David V.; and Newman, Michael A., 4,678,443, Cl. 441-38.000.

Newman, Michael G.; and Carranza, Fermin A., Jr. Fluoride-coated dental floss. 4,638,823, 1-27-87, Cl. 132-91.000.

Newman, Neil F.: *See*—
Gardner, Irwin J.; Fusco, James V.; Newman, Neil F.; Kowalski, Ronald C.; Davis, William M.; and Baldwin, Francis P., 4,703,091, Cl. 525-332.300.

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, Edward F.; Warren, Leslie F., Jr.; and Newman, Paul R.,
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Ray L. Ceramic burner having high turndown ratio.
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The. Method for adhering a coating material to densified
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obert L.: *See—*
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ussell L. Trenching equipment with hinged side plates.
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ephen, to Minnesota Mining and Manufacturing Company.
olizable compositions containing novolac phenolic resin.
11-24-87, Cl. 430-270.000.
rnon H.; and Becker, Roland. Ball rebound net. 4,693,472,
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arren; and Persson, Alfred V., to Doll Medical Research.
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illiam R., to Kimberly-Clark Corporation. Package and
ntainer including plural tear portions. 4,648,513, 3-10-87,
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yatt S., to North American Philips Corporation. Helical
er assembly. 4,712,778, 12-15-87, Cl. 267-170.000.
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ssounian, Jacques L., 4,681,756, Cl. 424-451.000.
rry J.; and Hibbert, David A., to General Electric Com-
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y C.; and Wung, Peter C. F., 4,675,782, Cl. 361-356.000.
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icky L. Roof hinged door apparatus. 4,684,167, 8-4-87, Cl.
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Theodore; and Lira, Miguel R., 4,666,891, Cl.
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eration: *See—*
ed A.; and Gara, Aaron D., 4,653,905, Cl. 356-4.000.
d, John T., 4,645,291, Cl. 350-3.830.
nn, Micha, 4,690,507, Cl. 350-321.000.
s, Inc.: *See—*
Donald F.; Solomon, Romona L.; and Good, Charlie J.,
, Cl. 210-137.000.
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chael C.; and Kashy, David H., 4,693,339, Cl.
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rnational, Inc.: *See—*
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b G., 4,651,896, Cl. 221-229.000.
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paratus for compacting low density articles. 4,669,375,
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n S.; and McCarthy, James M., to United States of
y. Acoustic prelaunch weapon communication system.
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facade system. 4,686,807, 8-18-87, Cl. 52-314.000.
Newsome, Reggie: *See—*
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Newsome, Reginald W.: *See—*
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W., 4,649,944, Cl. 131-336.000.
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Newsteder, Robert, to Chocolate Pix, Inc. Method of forming an image
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Newton, Alan R. Vehicle stabilizer. 4,687,225, 8-18-87, Cl. 280-758.000.
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315-371.000.
Newton, Arnold C., to Rolls-Royce plc. Thrust reverser. 4,682,733,
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Newton, Charles L., to Air Products and Chemicals, Inc. Apparatus
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reliquefying during startup or turndown. 4,675,037, 6-23-87, Cl.
62-28.000.
Newton, Charles L.; Girard, Richard J.; and Cardin, William J., to
Micro-Plate Inc. Solution waste treatment module. 4,675,111,
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Newton, Charles L.: *See—*
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Newton, Edward L.; and Swendrowski, Steven D., to Intel Corpora-
tion. Carrier for tape automated bonded semiconductor device.
4,696,526, 9-29-87, Cl. 439-68.000.
Newton, Feaster H.; and Wang, Kenneth Y., to Burlington Industries,
Inc. Roving blending for making sheath/core spun yarn. 4,711,079,
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Newton, Frank R.: *See—*
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Allan R.; Hodgson, Robert E.; Such, Neil R.; Smith, Douglas D.;
Newton, Frank R.; and Cunningham, Richard N., 4,634,622, Cl.
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Newton, Gary D. Fluid dispersing checkvalve. 4,715,393, 12-29-87, Cl.
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Newton Instrument Company: *See—*
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Newton, John R. Composite article. 4,662,777, 5-5-87, Cl. 404-25.000.
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Newton, Robert E.: *See—*
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Newton, Roger E.: *See—*
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Newton, Ronald R., to Sierra Design and Development, Inc. Automatic
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Inductor current control circuit. 4,672,303, 6-9-87, Cl. 323-285.000.
Newton, Steven A.: *See—*
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Shaw, Herbert J.; Bowers, John E.; and Newton, Steven A.,
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Newton, Walter A., to Entravision, Inc. Mechanism for coupling the
aspirant line of an irrigation/aspiration machine to the pressure
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Newton, William D., II. Landscape edging bender. 4,644,778, 2-24-87,
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Newton, William P.; and Flight, Robert S., to Caldwell Manufacturing
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Primary side clock single-ended forward converter with connectible
secondary circuits and having switchable actual value feed for the
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Ney, Reuben E.; and Walters, Bryon L., to AMP Incorporated. Shielded microminiature multi-pin connector. 4,707,045, 11-17-87, Cl. 439-588.000.

Ney, Reuben E.: *See*—
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Pass, Raymond V.; Schroeder, James L., III; and Ney, Reuben E., 4,648,681, Cl. 339-147.00R.

Ney, Robert, to Lynenwerk GmbH & Co. Kommanditgesellschaft. Electrical cable for communication purposes. 4,638,117, 1-20-87, Cl. 174-117.00F.

Ney, Robert J. Confection mixing, chopping and extruding apparatus. 4,668,561, 5-26-87, Cl. 425-202.000.

Neybourger, Roger; and Olivier, Christian, to Framatome & Cie. Heat exchanger incorporating a tube bundle arranged in a cylindrical bundle casing held radially inside an outer cylindrical casing. 4,655,281, 4-7-87, Cl. 165-160.000.

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Neyroud, Jean; Guillier, Alain; and Mahi, Abdelkader, to La Telemecanique Electrique. Mounting device for a thick layer electronic module. 4,648,008, 3-3-87, Cl. 361-387.000.

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Neywick, Charles V.: *See*—
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Nezuka, Kenjiro: *See*—
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Ng, Chan Y.; Ouchi, Norman K.; Wang, David T.; and Yu, Wellington C., to International Business Machines Corporation. Rotating storage device track format emulation. 4,680,653, 7-14-87, Cl. 360-72.200.

Ng, Ed C., to Motorola Computer Systems, Inc. Local video controller with video memory update detection scanner. 4,646,261, 2-24-87, Cl. 364-900.000.

Ng, Edward C.; and Casnovsky, William M., to Motorola Computer Systems, Inc. Electronic workstation with parkable keyboard. 4,698,782, 10-6-87, Cl. 364-708.000.

Ng, Fred K., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Database backup method. 4,686,620, 8-11-87, Cl. 364-200.000.

Ng, Howard: *See*—
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Ng, Kung-Tat: *See*—
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Lewis, Henry G., Jr.; and Ng, Sheau-Bao, 4,698,680, Cl. 358-166.000.

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Alexandrovich, Peter S.; Santilli, Domenic; and Ng, Yee S., 4,791,387, Cl. 430-45.000.

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Burger, Mark E.; George, Steven L.; and Ngai, Chuck H., 4,635,194, Cl. 364-200.000.

Ngai, Peter Y. Y., to Peerless Lighting Corporation. Lensed indirect luminaire with side angle brightness control. 4,698,734, 10-6-87, Cl. 362-225.000.

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Herst, Douglas J.; and Ngai, Peter Y. Y., 4,660,131, Cl. 362-223.000.
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Ngan, Danny Y.: *See*—
Haskell, Weston W.; and Ngan, Danny Y., 4,634,516, Cl. 208-91.000.

NGB Spark Plug Co., Ltd.: *See*—
Masuda, Semichi; Fukuura, Isamu; Shiromizu, Hisaharu; and Morita, Naotoshi, 4,672,503, Cl. 361-230.000.

Ngian, Ho Y.; and Lay, Yeo C., to Genaplast Pte. Ltd. Sliding door mechanism. 4,651,469, 3-24-87, Cl. 49-223.000.

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Abe, Fumio; Hasegawa, Hiroshi; Fujita, Tadashi; and Maeda, Makoto, 4,673,349, Cl. 431-328.000.
Abe, Fumio; and Fujita, Tadashi, 4,689,150, Cl. 210-490.000.
Hattori, Isao; and Enomoto, Akio, 4,674,376, Cl. 83-285.000.
Hattori, Isao; and Noiri, Hifuo, 4,695,242, Cl. 425-376.00R.
Hattori, Isao; and Enomoto, Akio, 4,702,138, Cl. 83-785.000.
Hattori, Isao; and Furukawa, Shigeru, 4,704,423, Cl. 425-376.00R.
Ikegami, Ryoichi; and Kojima, Hitoshi, 4,703,154, Cl. 219-345.000.
Ikushima, Kazuo; Iwadachi, Takaharu; and Ishikawa, Syuhei, 4,692,192, Cl. 148-12.70C.
Ishiguro, Fujio; and Maeda, Hideo, 4,697,165, Cl. 338-34.000.
Ishihara, Takeshi; and Kojima, Masaru, 4,654,478, Cl. 174-176.000.
Ito, Kazuhiko; Yonehara, Jun; Tanigawa, Yoshinari; and Yamaguchi, Minoru, 4,651,814, Cl. 165-47.000.
Ito, Shigenori, 4,696,777, Cl. 264-60.000.
Kajihara, Takehiro; Atsumi, Senji; and Izumiya, Hirotsugu, 4,665,344, Cl. 313-624.000.
Kajihara, Takehiro; Atsumi, Senji; and Izumiya, Hirotsugu, 4,687,969, Cl. 313-625.000.
Kato, Nobuhide; and Murase, Takao, 4,668,375, Cl. 204-426.000.
Kawaguchi, Toshiyuki; Katsukawa, Hiroyuki; Nakanishi, Kazumi; and Tanaka, Naoki, 4,648,131, Cl. 455-606.000.
Kawasaki, Keiji, 4,694,689, Cl. 73-118.100.
Kitagawa, Jiro; and Oki, Shuichiro, 4,650,697, Cl. 427-125.000.
Mase, Syunzo; and Soejima, Shigeo, 4,647,364, Cl. 204-427.000.
Mase, Syunzo; and Soejima, Shigeo, 4,655,901, Cl. 204-426.000.
Mase, Syunzo; and Soejima, Shigeo, 4,657,659, Cl. 204-410.000.
Mase, Syunzo; and Soejima, Shigeo, 4,670,115, Cl. 204-427.000.
Matsuhiro, Keiji; and Matsui, Minoru, 4,640,903, Cl. 501-97.000.
Matsuhisa, Tadaaki; and Kato, Kiminari, 4,645,700, Cl. 428-116.000.
Matsuhisa, Tadaaki; and Kato, Kiminari, 4,658,887, Cl. 165-8.000.
Matsuhisa, Tadaaki; and Sasaki, Shingo, 4,713,206, Cl. 264-328.200.
Matsui, Minoru; and Tsuno, Nobuo, 4,648,308, Cl. 92-212.000.
Matsui, Minoru; and Tsuno, Nobuo, 4,667,627, Cl. 123-193.00P.
Matsui, Minoru; and Soma, Takao, 4,692,419, Cl. 501-97.000.
Matsui, Minoru, 4,699,890, Cl. 501-98.000.
Matsui, Minoru; and Tsuno, Nobuo, 4,709,621, Cl. 92-212.000.
Matsuo, Junichi; and Muto, Sadanari, 4,664,520, Cl. 356-237.000.
Matsuzawa, Soichiro, 4,675,988, Cl. 29-603.000.
Matsuzawa, Soichiro, 4,711,018, Cl. 29-603.000.
Mizuno, Takeyuki; and Kurokawa, Teruhisa, 4,647,414, Cl. 264-65.000.
Mizutani, Isao; and Enomoto, Akio, 4,692,581, Cl. 219-10.810.
Mizutani, Yoshihiko; and Shibata, Kazuyoshi, 4,666,566, Cl. 201.00T.
Morita, Tetuya; Wakasa, Akinori; Ogawa, Yutaka; and Ogasawara, Takayuki, 4,651,692, Cl. 123-270.000.
Nakamura, Itsushi; Mori, Shigeo; and Nozaki, Hiroshi, 4,658,09[illegible] Cl. 174-182.000.
Nishizawa, Hitoshi; and Shibata, Kazuyoshi, 4,634,514, Cl. 204-406.000.
Nishizawa, Hitoshi; and Mizutani, Yoshihiko, 4,645,572, Cl. 201.00T.
Oda, Isao; and Tsuno, Nobuo, 4,690,617, Cl. 416-241.00B.
Oda, Isao; and Soma, Takao, 4,692,420, Cl. 501-97.000.
Ogawa, Yutaka; Ogasawara, Takayuki; and Hori, Yoshiaki, 4,638,683, Cl. 74-567.000.
Ogawa, Yutaka; Yamada, Shunichi; and Hamanaka, Toshiyuki, 4,642,210, Cl. 264-62.000.
Ogawa, Yutaka; Ogasawara, Takayuki; and Hanzawa, Shigeki, 4,662,331, Cl. 123-270.000.
Ogawa, Yutaka; Ogasawara, Takayuki; and Hanzawa, Shigeki, 4,681,074, Cl. 123-271.000.
Ono, Katsuhiro, 4,682,445, Cl. 51-236.000.
Ozaki, Sei; and Futamura, Shoji, 4,653,996, Cl. 425-461.000.
Ozaki, Sei; Futamura, Shoji; Kojima, Masaru; and Inoue, Satoru, 4,687,433, Cl. 425-464.000.
Ozaki, Sei; and Futamura, Shoji, 4,707,904, Cl. 29-445.000.
Sasaki, Shingo, 4,701,106, Cl. 416-241.00B.
Seike, Shoji; Totoki, Takao; and Kaneko, Akio, 4,689,445, Cl. 174-212.000.
Shibata, Kazuyoshi; and Nishizawa, Hitoshi, 4,639,305, Cl. 204-426.000.
Takeuchi, Kazumasa; Iwadachi, Takaharu; and Ikushima, Kazuo, 4,696,704, Cl. 148-412.000.

Takeuchi, Yukihisa; and Masumori, Hideo, 4,649,125, Cl. 501-15.000.
Yokoi, Shigeo; Isozaki, Takashi; Yamamoto, Ryuta; and Kawaguchi, Toshiyuki, 4,709,330, Cl. 364-400.000.
NGK Spark Plug Co., Ltd.: *See*—
Ando, Minato; Ito, Masaaki; and Mizuno, Fumio, 4,643,985, Cl. 501-136.000.
Ando, Minato; Ito, Masaaki; and Mizuno, Fumio, 4,668,646, Cl 501-136.000.
Asayama, Yoshiaki; and Kominami, Seiya, 4,657,640, Cl. 204-1.00T.
Banno, Hisao, 4,695,988, Cl. 367-154.000.
Fukuura, Isamu; and Niwa, Shigeo, 4,636,218, Cl. 623-18.000.
Ichikawa, Sadao; Yokoi, Shinichi; Yasuhara, Seishi; and Kondo, Hiroshi, 4,635,594, Cl. 123-179.0BG.
Inuzuka, Shozin; and Yamashita, Shuji, 4,704,894, Cl. 73-35.000.
Ishida, Noboru; Kawamura, Mitsuyoshi; and Ishihara, Toshiyuki, 4,674,283, Cl. 60-606.000.
Itoh, Akio; Sumi, Kazunori; Saitoh, Sigeo; and Sobue, Hideo, 4,703,652, Cl. 73-290.00V.
Itoh, Tsuneo; and Yokoi, Shinichi, 4,636,614, Cl. 219-270.000.
Kagawa, Junichi; and Oshima, Takafumi, 4,670,684, Cl. 313-141.000.
Kanda, Atsushi; Takagi, Shunichi; and Kambe, Rokuro, 4,657,825, Cl. 428-627.000.
Kato, Norio; Nozaki, Shunkichi; Kimura, Yukihiro; and Kambe, Rokuro, 4,690,872, Cl. 428-446.000.
Kawamura, Mitsuyoshi; and Taniguchi, Masato, 4,676,207, Cl. 123-271.000.
Kinoshita, Takeo; Ikoma, Hideyuki; and Tsunooka, Tsutomu, 4,704,373, Cl. 501-136.000.
Kojima, Takao; Nakano, Akira; Matsuura, Toshitaka; and Takami, Akio, 4,688,015, Cl. 338-34.000.
Kojima, Takao; and Ishiguro, Hiroyuki, 4,713,166, Cl. 204-425.000.
Kojima, Takio; and Taniguchi, Masato, 4,691,673, Cl. 123-271.000.
Kojima, Takio; and Taniguchi, Masato, 4,704,998, Cl. 123-271.000.
Kondo, Kazuo; and Okuyama, Masahiko, 4,634,634, Cl. 428-432.000.
Kondo, Kazuo; and Sukegawa, Tsuneyuki, 4,649,070, Cl. 428-209.000.
Masuda, Senichi, 4,644,457, Cl. 363-37.000.
Masuda, Senichi; and Fukuura, Isamu, 4,652,318, Cl. 156-89.000.
Masuda, Senichi; Fukuura, Isamu; and Shiromizu, Hisaharu, 4,666,679, Cl. 422-186.200.
Matsuura, Toshitaka; Ohkawa, Teppei; Furusaki, Keizo; and Takami, Akio, 4,652,849, Cl. 338-34.000.
Miyata, Hiroshi; and Kawajiri, Shogo, 4,660,409, Cl. 73-35.000.
Mori, Hiroaki, 4,686,861, Cl. 73-862.680.
Murate, Shigenori; and Hattori, Yoshinori, 4,689,921, Cl. 51-317.000.
Narita, Yoshinori; and Kato, Takashi, 4,676,064, Cl. 60-272.000.
Nishiki, Masahiro, 4,639,698, Cl. 333-187.000.
Nishio, Hisaharu; Taguchi, Kazuo; Okumura, Toshio; and Ebizawa, Akio, 4,668,477, Cl. 422-98.000.
Niwa, Shigeo; Kondo, Kazuo; and Betsuki, Katsutoshi, 4,685,919, Cl. 623-21.000.
Ogura, Koji; and Sobue, Hideo, 4,694,440, Cl. 367-152.000.
Ohya, Kanji; Wakita, Naomasa; and Nakagawa, Yasuhiko, 4,651,046, Cl. 310-328.000.
Ohya, Kanji; and Achiha, Hikaru, 4,684,843, Cl. 310-355.000.
Okada, Kozo; Masuda, Michiyuki; and Ueha, Sadayuki, 4,634,916, Cl. 310-323.000.
Okuno, Akiyasu; and Watanabe, Masakazu, 4,690,909, Cl. 501-90.000.
Okuno, Akiyasu; Watanabe, Masakazu; and Ikoma, Kazuhiko, 4,695,517, Cl. 428-698.000.
Okuno, Akiyasu; and Watanabe, Masakazu, 4,701,426, Cl. 501-90.000.
Takami, Akio; Matsuura, Toshitaka; and Kawai, Nobuo, 4,656,863, Cl. 73-23.000.
Takami, Akio; Matsuura, Toshitaka; Nakano, Akira; and Kuroki, Yoshiaki, 4,660,407, Cl. 73-23.000.
Takeuchi, Tadashi; and Ushida, Kunihiro, 4,672,839, Cl. 73-35.000.
Taniguchi, Masato; Nishio, Hisaharu; Kawamura, Mitsuyoshi; and Okumura, Toshio, 4,672,933, Cl. 123-270.000.
Taniguchi, Masato, 4,699,102, Cl. 123-271.000.
Toya, Akihiro; Kagawa, Junichi; Yokota, Kazunori; and Mori, Hiroaki, 4,659,960, Cl. 313-141.000.
Tsunooka, Tsutomu; Takeuchi, Tadashi; Ushida, Kunihiro; and Kawajiri, Shogo, 4,638,206, Cl. 310-313.00B.
Tsunooka, Tsutomu; Saito, Shigeo; Yamamoto, Takashi; and Ito, Hiroshi, 4,675,123, Cl. 252-62.900.
Wakita, Naomasa; and Okuda, Makoto, 4,705,365, Cl. 350-487.000.
Watanabe, Masakazu; and Okuno, Akiyasu, 4,638,268, Cl. 333-22.00F.
Watanabe, Masakazu; Okuno, Akiyasu; Nozaki, Shunkichi; Matsuo, Yasushi; and Fukuura, Isamu, 4,668,452, Cl. 264-63.000.
Yamaguchi, Takashi; Nakamura, Shinichi; and Oshima, Takafumi, 4,700,103, Cl. 313-141.000.
Yokoi, Shinichi; and Ito, Tsuneo, 4,640,809, Cl. 264-61.000.
Yokoi, Shinichi, 4,650,963, Cl. 219-270.000.
Yokoi, Shinichi; Itoh, Tsuneo; Yasuhara, Seishi; and Kondo, Hiroshi, 4,661,686, Cl. 219-270.000.
Ngo, Dat V.; and Jacoby, Elliot G., to Lutron Electronics Co., Inc. Mounting structure for semiconductor devices. 4,646,203, 2-24-87, Cl. 361-388.000.
Ngo, Giang T., to Eastman Kodak Company. Latch mechanism for camera shutter. 4,707,099, 11-17-87, Cl. 354-251.000.
Ngo, Khai D. T.; and Peterson, William A., to General Electric Company. Single-ended DC-to-DC converter with lossless switching. 4,709,316, 11-24-87, Cl. 363-21.000.
Ngo, Long V.: *See*—
Kaczeus, Steven; and Ngo, Long V., 4,654,736, Cl. 360-106.000.
Ngo, Thien M.: *See*—
Law, Simon M.; and Ngo, Thien M., 4,686,396, Cl. 307-473.000.
Ngoc Le, Quang; McCarthy, Stephen J.; and Mitchell, Kenneth M., to Mobil Oil Corporation. Procedure for regenerating platinum containing zeolite catalyst compositions. 4,689,312, 8-25-87, Cl. 502-38.000.
Nguyen, Bich-Yen: *See*—
Leung, Howard K. H., Nguyen, Bich-Yen; Alvis, John R.; and Schmiesing, John, 4,693,781, Cl. 156-643.000.
Teng, Ker-Wen; Nguyen, Bich-Yen; and Parrillo, Louis C., 4,686,552, Cl. 357-23.600.
Nguyen, Chinh T.; and Smith, Stanley E., to General Motors Corporation. Method of manufacture of a molded friction pad. 4,652,415, 3-24-87, Cl. 264-236.000.
Nguyen, David M., to Hughes Tool Company - USA. Earth boring bit having a replaceable, threaded nozzle with wrench socket. 4,703,814, 11-3-87, Cl. 175-393.000.
Nguyen, David M.: *See*—
King, William W.; Handsel, Arthur M.; and Nguyen, David M., 4,667,756, Cl. 175-409.000.
Nguyen, Dean: *See*—
Fatz, Robert L.; Walker, William J.; Ramey, Philip; Adams, Kenneth M.; Flone, Nicholas P.; and Nguyen, Dean, 4,681,724, Cl. 264-257.000.
Nguyen, Dinh: *See*—
Brigham, William D.; and Nguyen, Dinh, 4,685,292, Cl. 60-320.000.
Nguyen, Hoc M.; and Chu, George H., to Collagen Corporation. Mechanically sheared collagen implant material and method. 4,642,117, 2-10-87, Cl. 623-11.000.
Nguyen, Huong T.: *See*—
Chan, Tai W.; and Nguyen, Huong T., 4,642,346, Cl. 544-276.000.
Nguyen Mong, Lan: *See*—
Bentzen, Craig L.; Guyon-Gellin, Yves; Kalathakis, Kyriacos; Phan, Hieu T.; Nguyen Mong, Lan; Niesor, Eric; and Rossier, Jean-Robert, 4,696,920, Cl. 514-89.000.
Nguyen, Phuc: *See*—
Mejia, Ezequiel; Taillefer, Pierre; and Nguyen, Phuc, 4,663,612, Cl 340-572.000.
Nguyen, Son V.; and Severson, James M., to International Business Machines Corporation. Asperity burst writer. 4,635,139, 1-6-87, Cl. 368-25.000.
Nguyen, Tai: *See*—
Domenik, Stephen L.; Folmsbee, Alan C.; Nguyen, Tai; and Shirgley, David A., 4,694,412, Cl. 364-717.000.
Nguyen, Tanh, to Chevron Research Company. Methods for metering two-phase flow. 4,662,219, 5-5-87, Cl. 73-195.000.
Nguyen, Tho Q., to Westinghouse Electric Corp. Full length control rod employing axially inhomogeneous absorber materials for zero reactivity redistribution factor. 4,699,756, 10-13-87, Cl. 376-333.000.
Nguyen, Thoi: *See*—
Dyer, Stanley; Molloy, James J.; Nguyen, Thoi; Rinerd, David M.; Voit, William F., Jr.; and West, Donald L., 4,641,148, Cl. 346-76.0PH.
Nguyen, Tri H.: *See*—
Tan, Siv C.; Nguyen, Tri H.; and Benchimol, Claude D., 4,694,399, Cl. 364-414.000.
Nguyen, Tri Hue: *See*—
Tan, Siv Chang; Nguyen, Tri Hue; and Benchimol, Claude, 4,680,782, Cl. 378-4.000.
Nguyen, Tuan; Hirsbrunner, Pierre; and Weymuth, Hans, to Nestecs S.A. Removal of anions from vegetable material. 4,636,399, 1-13-87, Cl. 426-629.000.
Nguyen, Tuan A.: *See*—
Smith, Eugene F.; and Nguyen, Tuan A., 4,641,761, Cl. 220-66.000.
Nguyen, Tuyen T., to Hercules Incorporated. Method for making a dicyclopentadiene cross-linked polymer and the product thereof. 4,703,068, 10-27-87, Cl. 521-150.000.
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Quinn, Daniel J.; Mulholland, Wayne A.; Bond, Robert H.; Olla, Michael A.; Cupples, Jerry S.; Tsitovsky, Ilya L.; Mozdzen, Barbara R.; Held, Charles F.; Wilson, Linda S.; and Nguyen, Yen T., 4,685,998, Cl. 156-633.000.
NHK Spring Co., Ltd.: *See*—
Hattori, Torao; Takagi, Yasushi; Tange, Akira; Umetsu, Chiharu; Kudo, Osamu; Kurimoto, Kiyoshi; and Kitamura, Rou, 4,698,050, Cl. 474-242.000.
Ishigami, Yukio; Akiyama, Yoshinori; and Terasawa, Haruhumi, 4,655,501, Cl. 297-113.000.
Kashiwamura, Takayoshi; and Iwasaki, Ryoichi, 4,655,505, Cl. 297-284.000.
Ojima, Juji; and Kitamura, Yosiharu, 4,643,382, Cl. 248-371.000.

Ojima, Juji; and Hino, Isao, 4,702,726, Cl. 474-101.000.
Ojima, Juji; and Kitamura, Yosiharu, 4,706,920, Cl. 248-371.000.
Okumura, Hitoshi; and Mizobuchi, Susumu, 4,668,001, Cl. 296-37.160.
Shibata, Masaharu; Furuyama, Tsutomu; and Ohkoshi, Kazuo, 4,715,202, Cl. 72-21.000.
Tomatsu, Toshiaki; and Shindou, Toshiaki, 4,667,492, Cl. 70-261.000.

NI Industries, Inc.: *See*—
Cummins, Michael; Cummins, James M.; and Theys, Raymond A., 4,640,142, Cl. 74-501.00R.
Fane, William J., 4,633,687, Cl. 70-276.000.
Hempelmann, Heinrich J., 4,669,787, Cl. 301-37.0SS.
Hempelmann, Heinrich J., 4,683,629, Cl. 29-159.00A.
Hempelmann, Heinrich J., 4,699,434, Cl. 301-37.0SS.
Nicol, Steven M., 4,712,845, Cl. 312-319.000.

Niada, Riccardo: *See*—
Prino, Giuseppe; Mantovani, Marisa; and Niada, Riccardo, 4,693,995, Cl. 514-44.000.

Niagara Environmental Associates, Inc.: *See*—
Gale, Stephen B.; and O'Donnell, Philip P., 4,693,798, Cl. 204-149.000.

Niagara Mohawk Power Corporation: *See*—
Fernandes, Roosevelt A.; Smith-Vaniz, William R.; Burbank, John E., III; and Sieron, Richard L., 4,635,055, Cl. 340-870.170.
Fernandes, Roosevelt A.; and Smith-Vaniz, William R., 4,689,752, Cl. 364-492.000.
Smith-Vaniz, William R.; and Sieron, Richard L., 4,714,893, Cl. 324-126.000.

Niall, Hugh D.: *See*—
Tregear, Geoffrey W.; Du, Yu-cang; and Niall, Hugh D., 4,656,249, Cl. 530-324.000.

Niazi, Ishfaq A.: *See*—
Kabb, Harold L.; Flint, John R.; Videlock, Gary B.; Niazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J.; and Friedrich, Paul H., 4,699,504, Cl. 355-20.000.

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Nibert, Roger K.: *See*—
Sproul, William D.; and Nibert, Roger K., 4,670,172, Cl. 252-49.300.

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Widegren, Tage K.; and Ericsson, Tommy T., 4,660,405, Cl. 72-447.000.
Wiklund, Klas R., 4,690,557, Cl. 356-155.000.

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Nicely, Charles W., to United Steel & Wire Company. Corner structure for adjustable shelving (with opposed clamping members). 4,637,323, 1-20-87, Cl. 108-107.000.

Nichias Corporation: *See*—
Sago, Yoshiharu; Kurosawa, Masaji; and Kanamori, Nobutaka, 4,650,621, Cl. 264-62.000.
Yamamoto, Tsutomu; Nishiyama, Michio; Yamamoto, Mitsuo; and Ozaki, Masakazu, 4,690,867, Cl. 428-367.000.

Nichirei Corporation: *See*—
Hosokawa, Hidehiro; Iida, Yoshimichi; and Takahashi, Hisatsugu, 4,641,500, Cl. 62-70.000.

Nichiro Kogyo Company, Ltd.: *See*—
Aoki, Minoru, 4,657,465, Cl. 414-31.000.
Kasuga, Yoshiaki, 4,635,541, Cl. 100-2.000.
Kasuga, Yoshiaki, 4,653,394, Cl. 100-2.000.

Nichol, Charles A.; Reinhard, John F., Jr.; Smith, Gary K.; and Bigham, Eric C., to Burroughs Wellcome Co. Biopterin analogs. 4,665,182, 5-12-87, Cl. 544-258.000.

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Nichol, Charles A.: *See*—
Duch, David S.; Nichol, Charles A.; and Sigel, Carl W., 4,661,490, Cl. 514-258.000.

Nichol, James, to Codex Corporation. Backup power system. 4,675,539, 6-23-87, Cl. 307-65.000.

Nichol-Landry, Deborah J.: *See*—
McAneney, T. Brian; Loutfy, Rafik O.; Mammino, Joseph; Nichol-Landry, Deborah J.; and Sypula, Donald S., 4,711,833, Cl. 430-131.000.

Nicholas, Beatrice M.: *See*—
Gray, George W.; and Nicholas, Beatrice M., 4,698,176, Cl. 252-299.610.

Nicholas, Dan H., to Tektronix, Inc. Dual display monitor. 4,677,481, 6-30-87, Cl. 358-139.000.

Nicholas, David M.: *See*—
Hopkins, Jeffrey A.; DiMartino, Stephen P.; and Nicholas, David M., 4,654,047, Cl. 62-23.000.

Nicholas, Donald C.: *See*—
Leese, Leonard; Nicholas, Donald C.; Smith, Gordon C. R.; and Stokes, Geoffrey F., 4,652,409, Cl. 264-22.000.

Nicholas, James W.: *See*—
Butcher, Peter E.; Dick, David A.; Nicholas, James W.; Robinson, Melvin E. R.; and Staines, Glyn, 4,697,718, Cl. 220-82.00R.

Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J. Expansion joint for plaster walls. 4,651,488, 3-24-87, Cl. 52-396.000.

Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., to MM Systems Corporation. Gland and mount system and components thereof. 4,674,252, 6-23-87, Cl. 52-396.000.

Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., to MM Systems Corporation. Compression seal. 4,708,517, 11-24-87, Cl. 404-64.000.

Nicholas, Leo P. Boring bar. 4,666,350, 5-19-87, Cl. 408-82.000.

Nicholas, Mark L.: *See*—
Bremer, Noel J.; Dria, Dennis E.; Milberger, Ernest C.; Blum, Patricia R.; and Nicholas, Mark L., 4,647,673, Cl. 549-260.000.

Nicholas, Richard W.: *See*—
McMahan, David R.; and Nicholas, Richard W., 4,639,840, Cl. 362-80.000.

Nicholas, Robert J. L. Foldable shirt hanger with reinforced collar. 4,669,642, 6-2-87, Cl. 223-94.000.

Nicholls, Robin P.; and Savoie, Rolland J. Control circuit for electric vehicles. 4,691,148, 9-1-87, Cl. 318-12.000.

Nichols, Ann M.: *See*—
Lassen, Frederich O.; Sherrod, Earle H.; Nichols, Ann M.; and Serbiak, Paul J., 4,673,403, Cl. 604-385.00R.

Nichols, Charles; and Howard, John, to Drackett Company, The. Broom having interlocking components. 4,642,837, 2-17-87, Cl. 15-171.000.

Nichols, Cynthia L.: *See*—
Laguzza, Bennett C.; Nichols, Cynthia L.; and Bach, Nicholas J. 4,683,313, Cl. 548-437.000.

Nichols, David J., to Garland Commercial Ranges Limited. Pre-heater. 4,714,050, 12-22-87, Cl. 122-13.00R.

Nichols, E. Lane: *See*—
Newell, Alfred T., III; and Nichols, E. Lane, 4,638,850, Cl. 165-26.000.

Nichols, E. Lane, III; Hooper, William P.; and Leynse, Kenneth J., to Square D Company. Ground fault circuit interrupter capable of deriving energy from ground fault current in order to achieve circuit interruption in the presence of a reduced supply voltage. 4,685,022, 8-4-87, Cl. 361-44.000.

Nichols, Edward W.: *See*—
Cross, Michael A.; and Nichols, Edward W., 4,693,600, Cl. 356-121.000.
Cross, Michael A.; and Nichols, Edward W., 4,712,914, Cl. 356-121.000.

Nichols, Gus. Use of aromatic amines for setting epoxide resin. 4,668,757, 5-26-87, Cl. 528-88.000.

Nichols, Gus. Solventless polymeric composition reaction product of (1) adduct of amine and acrylate with (2) polyacrylate. 4,675,37[illegible], 6-23-87, Cl. 528-119.000.

Nichols, James B.; and Burke, William O., III, to Milliken Research Corporation. Machine to produce mat with valves therein. 4,653,36[illegible], 3-31-87, Cl. 83-114.000.

Nichols, James H., Jr.: *See*—
Zebley, Raymond S.; Nichols, James H., Jr.; and Ciosek, Bernard M., Jr., 4,690,302, Cl. 221-11.000.

Nichols, James L.: *See*—
Tsay, Yuh-Geng; Beigler, Myron A.; Calenoff, Emanuel; Friese, Gerald L.; and Nichols, James L., 4,716,120, Cl. 436-513.000.

Nichols, James O. Sun shade apparatus for a lounge chair. 4,639,03[illegible], 1-27-87, Cl. 297-184.000.

Nichols, Jeffrey B.: *See*—
Culbertson, Townley P.; Domagala, John M.; Mich, Thomas F.; and Nichols, Jeffrey B., 4,638,067, Cl. 546-15.000.
Culbertson, Townley P.; Domagala, John M.; Mich, Thomas F.; and Nichols, Jeffrey B., 4,665,079, Cl. 514-312.000.
Mich, Thomas F.; Domagala, John M.; and Nichols, Jeffrey B., 4,657,913, Cl. 514-278.000.

Nichols, John L., to Logical Services, Inc. Adaptive instruction sequence synthesizer and process. 4,701,847, 10-20-87, Cl. 364-200.00[illegible]

Nichols, Joseph, to Helitrex, Inc. Delivery system for implantation of fine particles in surgical procedures. 4,657,548, 4-14-87, Cl. 623-10.000.

Nichols, Keith A.: *See*—
Heidenreich, David C.; and Nichols, Keith A., 4,661,083, Cl. 464-17.000.

Nichols, Larry D., to Moleculon, Inc. Process of making gelled cellulose triacetate product. 4,643,856, 2-17-87, Cl. 264-41.000.

Nichols, Lawrence J.: *See*—
MacMaster, George H.; and Nichols, Lawrence J., 4,677,342, Cl. 315-39.300.

Nichols, Leo F., to Enron Corp. Reactive gas sensor. 4,638,286, 1-20-87, Cl. 338-34.000.

Nichols, Philip T. Flexible arcuate tent featuring peak cord suspension. 4,665,935, 5-19-87, Cl. 135-104.000.

Nichols, Philip T. Tent fly apparatus and method. 4,709,718, 12-1-87, Cl. 135-106.000.

Nichols, Ralph E.: *See*—
Chen, Wen-hsiung; Elliott, James P.; Newell, Robert E. G.; Nichols, Ralph E.; and Rackett, Albert E., 4,704,628, Cl. 358-136.00[illegible]

Nichols, Randy P., to Cactus Wellhead Equipment Co., Inc. Wellhead equipment support. 4,652,022, 3-24-87, Cl. 285-92.000.

Nichols, Rex. Material stripping apparatus. 4,699,430, 10-13-87, Cl. 299-37.000.
Nichols, Richard C.: *See*—
Kerins, Gerard J.; Collette, Wayne N.; Beck, Martin H.; Clark, Richard E.; Harry, Teuan L.; Krishnakumar, Suppayan; Miller, Bryan H.; Nichols, Richard C.; Piccioli, David; Tacito, Louis D.; and Worsowicz, Eileene M., 4,665,682, Cl. 53-452.000.
Nichols, Richard D. E.: *See*—
Bianchi, John E.; Gregory, Wayne B.; and Nichols, Richard D. E., 4,645,103, Cl. 224-243.000.
Nichols, Richard W.; Zabrodski, William J.; and Mitra, Abhijit, to Rohm and Haas Company. DDTR-free 1,1-bis(chlorophenyl)-2,2,2-trichloroethanol. 4,705,902, 11-10-87, Cl. 568-810.000.
Nichols, Robert L. Filtered port suitable for medical sterilization containers and method or use thereof. 4,704,254, 11-3-87, Cl. 422-28.000.
Nichols, Robert L. Medical sterilizaton container with instrument tray. 4,716,025, 12-29-87, Cl. 422-310.000.
Nichols, Roberta J.: *See*—
Wineland, Richard J.; Nichols, Roberta J.; and Clinton, Eric L., 4,703,732, Cl. 123-416.000.
Wineland, Richard J., Nichols, Roberta J.; and Clinton, Eric L., 4,706,629, Cl. 123-478.000.
Wineland, Richard J.; Nichols, Roberta J.; and Clinton, Eric L., 4,706,630, Cl. 123-478.000.
Nichols, Roger H. Detachable locking system for the fallboard of a keyboard musical instrument. 4,667,557, 5-26-87, Cl. 84-179.000.
Nichols, Roy: *See*—
Goleczka, Joseph; Mills, Edmund P.; Harrison, Edward K.; and Nichols, Roy, 4,643,977, Cl. 436-34.000.
Nichols, Roy L.: *See*—
Hintz, Robert T.; and Nichols, Roy L., 4,638,508, Cl. 455-617.000.
Nichols, Stephen R.: *See*—
Teague, Terry S.; Jackson, Donald A.; Kerske, James L.; Nichols, Stephen R.; and McGuire, Robert L., 4,688,750, Cl. 248-243.000.
Nichols, Sterling M.: *See*—
Pickering, Trevor P.; Paton, George A.; Gusack, James A.; Smith, Thomas E.; Sanders, John H.; Nichols, Sterling M.; Pursoo, Johnson L.; Lindsay, John W.; and Streetman, William E., 4,704,311, Cl. 427-393.100.
Nichols, Steve: *See*—
Tiffany, Burris D.; Nichols, Steve; Meulman, Paul A.; Hylton, Thomas A.; and Lipton, Michael F., 4,684,725, Cl. 540-565.000.
Nichols, Walt; Newsome, Reggie; Thesing, Rich; and Houck, Willie, to Philip Morris Incorporated. Matrix entrapment of flavorings for smoking articles. 4,715,390, 12-29-87, Cl. 131-335.000.
Nichols, Walter A.; and Newsome, Reginald W., to Philip Morris Incorporated. Method of making a filter cigarette. 4,638,818, 1-27-87, Cl. 131-281.000.
Nichols, Walter A., to Philip Morris Incorporated. Adjustable filter cigarette. 4,646,763, 3-3-87, Cl. 131-336.000.
Nichols, Walter A., to Philip Morris Incorporated. Adjustable filter cigarette and method of manufacture thereof. 4,687,009, 8-18-87, Cl. 131-336.000.
Nichols, Walter A.: *See*—
Houck, Willie G., Jr.; Nichols, Walter A.; and Newsome, Reginald W., 4,649,944, Cl. 131-336.000.
Houck, Willie G., Jr.; Sprinkel, Francis M., Jr.; Newsome, Reginald W.; Spruill, David B.; and Nichols, Walter A., 4,687,008, Cl. 131-335.000.
Nichols, William E.; Herzog, William F.; Feldman, Neil; and Laumeister, William, to Apert-Herzog Corporation. Audio-visual monitoring system. 4,698,664, 10-6-87, Cl. 358-10.000.
Nichols, William E.: *See*—
Herzog, William F.; and Nichols, William E., 4,703,356, Cl. 358-160.000.
Pamer, Walter R.; Zils, James A.; and Nichols, William E., 4,647,264, Cl. 411-338.000.
Nicholson Division, Datron Systems, Inc.: *See*—
Alesson, Thomas, 4,679,727, Cl. 236-56.000.
Nicholson, Eric: *See*—
Montgomery, William J.; and Nicholson, Eric, 4,702,435, Cl. 244-3.130.
Nicholson, Horace: *See*—
Maker, Lewis W.; and Nicholson, Horace, 4,678,084, Cl. 206-597.000.
Nicholson, John L., to Klargester Environmental Engineering Ltd. Sewage treatment biological rotors. 4,692,241, 9-8-87, Cl. 210-150.000.
Nicholson Manufacturing Company: *See*—
Ackerman, Robert T., 4,653,559, Cl. 144-208.00E.
Nicholson Manufacturing Corporation: *See*—
Antezana, Luis F., 4,679,475, Cl. 83-420.000.
Nicholson, Michael D.; and Roy, Gerald A., Jr., to Du Pont de Nemours, E. I., and Company. Herbicidal fluoroethoxy pyrimidines. 4,704,159, 11-3-87, Cl. 71-92.000.
Nicholson, Myron D.; and Beckman, John H., to Viskase Corporation. Method for imparting smoke color and flavor to food. 4,657,765, 4-14-87, Cl. 426-250.000.
Nicholson, Patrick S.; and Yamashita, Kimihiro, to Canadian Patents and Developments Limited. Silicate superionic conductors and method of making same. 4,657,879, 4-14-87, Cl. 501-152.000.
Nicholson, Patrick S.: *See*—
Bell, Michael F.; Nicholson, Patrick S.; Sayer, Michael; and Yamashita, Kimihiro, 4,689,126, Cl. 204-130.000.
Nicholson, Peter. Film cassette system. 4,688,915, 8-25-87, Cl. 354-285.000.
Nicholson, Peter N.: *See*—
Gordon, William R.; Nicholson, Peter N.; and Six, John E., 4,645,931, Cl. 250-352.000.
Jungkman, David L.; Nicholson, Peter N.; and Brennan, Thomas M., 4,661,707, Cl. 250-352.000.
Nicholson, Warren H.; and Sepp, Walter E., to RCA Corporation. Apparatus for detecting nonstandard video signals. 4,635,099, 1-6-87, Cl. 358-17.000.
Nicholson, Warren H., to RCA Corporation. Adaptive field or frame store processor. 4,665,437, 5-12-87, Cl. 358-148.000.
Nicholson, William J.: *See*—
Akred, Brian J.; Messenger, Edward T.; and Nicholson, William J., 4,659,497, Cl. 252-135.000.
Nicia, Antonius J. A., to U.S. Philips Corp. Geodesic optical component. 4,712,856, 12-15-87, Cl. 350-96.120.
Nick, Erich; Guse, Gunter; and Asmussen, Bodo, to Betersdorf Aktiengesellschaft. Self-adhesive plaster containing medication. 4,699,792, 10-13-87, Cl. 424-446.000.
Nick, Erich; Guse, Gunter; and Asmussen, Bodo. Medicinal self-adhesive plaster. 4,711,781, 12-8-87, Cl. 424-446.000.
Nickel, Bernd: *See*—
Engel, Jurgen; Jakovlev, Vladimir; Nickel, Bernd; Thiemer, Klaus; and Scheffler, Gerhard, 4,643,995, Cl. 514-210.000.
Nickel, Friedhelm, to Hansa Textilchemie GmbH. Process for the removal of silicones from fibers, yarns or two-dimensional textile materials. 4,654,041, 3-31-87, Cl. 8-137.000.
Nickel, Gerhard: *See*—
Rassmann, Christoph; Nickel, Gerhard; Steinkuhl, Bernd; Merten, Gerhard; and Pfefferle, Egon, 4,715,659, Cl. 299-43.000.
Nickel, Hans; and Wissmann, Michael, to Andreas Stihl. Centrifugal clutch. 4,635,777, 1-13-87, Cl. 192-75.000.
Nickel, Hans: *See*—
Schierling, Roland; Geyer, Werner; Wissmann, Michael; and Nickel, Hans, 4,700,668, Cl. 123-73.00C.
Vondernau, Werner; Weber, Jurgen; Nickel, Hans; Wissmann, Michael; and Schliemann, Harald, 4,696,264, Cl. 123-73.00V.
Wissmann, Michael; Nickel, Hans; and Weber, Jurgen, 4,672,929, Cl. 123-179.00G.
Wissmann, Michael; Weber, Jurgen; and Nickel, Hans, 4,709,669, Cl. 123-149.00D.
Nickel, Klaus-Dietrich, to Kasa-Technoplan GmbH. Desulfurizing of fossile fuels. 4,635,572, 1-13-87, Cl. 110-343.000.
Nickel, Wilhelm: *See*—
Sebastian, Wilhelm; Nickel, Wilhelm; and Schirmag, Klaus-Peter, 4,638,655, Cl. 72-208.000.
Nickell, Louis G.; Stach, Leonard J.; and Hokama, Takeo, to Sandoz Ltd. Pent-2-en-4-on-2-yl 2-(4-(5-trifluoromethyl-2-pyridinyloxy)-phenoxy)propanoate useful for increasing recoverable sugar in sugar cane. 4,661,148, 4-28-87, Cl. 71-94.000.
Nickell, Louis G.; Stach, Leonard J.; and Hokama, Takeo, to Sandoz Ltd. Method of increasing the yield of sugar from sugarcane. 4,662,934, 5-5-87, Cl. 71-94.000.
Nickell, Louis G.; Stach, Leonard J.; and Hokama, Takeo, to Sandoz Ltd. Method of increasing the yield of sugar from sugarcane. 4,685,960, 8-11-87, Cl. 71-94.000.
Nickels, Helmut; and Hackenberger, Alfred, to BASF Aktiengesellschaft. Preparation of fatty acid esters of ascorbic acid. 4,705,869, 11-10-87, Cl. 549-317.000.
Nickels, Helmut: *See*—
Rebafka, Walter; and Nickels, Helmut, 4,645,863, Cl. 568-899.000.
Nickels, Richard C., Jr., to General Instrument Corp. Multiple input compact ticket processor. 4,684,792, 8-4-87, Cl. 235-384.000.
Nickelsen, Joachim: *See*—
Barlebo, Lars M.; and Nickelsen, Joachim, 4,642,905, Cl. 34-10.000.
Nickelson, Robert W., to John Zink Company. Combination can opener/knife sharpener with pivotal mounting. 4,663,849, 5-12-87, Cl. 30-296.00A.
Nickerson, Charles: *See*—
Rasmussen, Harry R.; Percival, Dan M.; Hoskinson, John D.; and Nickerson, Charles, 4,653,094, Cl. 379-396.000.
Nickerson, Rand B.: *See*—
McKenna, William J.; Silvers, Kenneth W.; Nickerson, Rand B.; Welsh, Russell J.; Walker, Harold R.; Cullity, Joseph A.; and Stryzak, Bohdan, 4,658,290, Cl. 358-84.000.
Nickerson, Winston R.: *See*—
Liu, Richard T.; Nickerson, Winston R.; and Anderson, Charles H., 4,634,598, Cl. 426-650.000.
Nickl, Franklyn G., to National Semiconductor Corporation. Low-profile bar code scanner. 4,652,732, 3-24-87, Cl. 235-462.000.
Nickl, Josef; Muller, Erich; Narr, Benthold; Ballhause, Helmut; and Haarmann, Walter, to Dr. Karl Thomae GmbH. Quaternary 3,4-dihydro-isoquinolinium salts. 4,678,792, 7-7-87, Cl. 514-307.000.
Nickl, Josef: *See*—
Roch, Josef; Muller, Erich; Narr, Berthold; Nickl, Josef; Haarmann, Walter; and Weisenberger, Johannes M., 4,690,923, Cl. 514-222.000.
Roch, Josef; Heckel, Armin; Nickl, Josef; Muller, Erich; Narr, Berthold; Zimmermann, Rainer; and Weisenberger, Johannes, 4,714,698, Cl. 514-212.000.
Nicklas, Hans; and Pruzina, Christoph, to ISPO GmbH. Insulating board. 4,694,626, 9-22-87, Cl. 52-309.120.
Nicklas, Norman E.: *See*—
Johnson, Ronald F.; and Nicklas, Norman E., 4,659,326, Cl. 604-62.000.
Nicklasson, Christer: *See*—
Wing, Anders; and Nicklasson, Christer, 4,640,520, Cl. 280-47.310.

Nicklau, Rudolf: *See*—
Koblischek, Peter; and Nicklau, Rudolf, 4,670,208, Cl. 264-250.000.

Nickles, Robert B., Jr., to Halliburton Company. Leg closure—improved fabric layup. 4,661,020, 4-28-87, Cl. 405-227.000.

Nickol, Robert G., to Hercules Incorporated. Biostable compositions and the aqueous solutions thereof as thickeners for aqueous-based systems. 4,707,189, 11-17-87, Cl. 106-176.000.

Nickola, Richard A.; and Agarwal, Shashi B., to Inland Steel Company. Diffusion treated hot-dip aluminum coated steel. 4,666,794, 5-19-87, Cl. 428-653.000.

Nickola, Richard A.; Sok, Brian A.; and Agarwal, Shashi B., to Inland Steel Company. Powder metal and/or refractory coated ferrous metals. 4,678,717, 7-7-87, Cl. 428-553.000.

Nickoladze, Leo G. Synchronous generators. 4,701,691, 10-20-87, Cl. 322-32.000.

Nickolay, Helmut; Hack, Kurt; Lattner, Manfred; Meissner, Werner; and Schollhammer, Richard, to Zinser Textilmaschinen GmbH. Thread-break monitor for ring-spinning and ring-twisting machines. 4,676,056, 6-30-87, Cl. 57-81.000.

Nickolay, Helmut: *See*—
Dupper, Walter; Emberger, Roland; Hack, Kurt; Lattner, Manfred; Nickolay, Helmut; Riedel, Karl; and Schollhammer, Richard, 4,635,321, Cl. 19-0.250.

Nickols, Richard C.: *See*—
Swarr, Thomas E.; Nickols, Richard C.; and Kralij, Myron, 4,652,411, Cl. 264-43.000.

Nicksic, Stephen W., to Phoenix Project Partnership, The. Process for clarifying bicarbonate bearing water using measurement and control of carbon dioxide content. 4,670,157, 6-2-87, Cl. 210-696.000.

Nicodemus, Carl D., to Helios Research Corp. Gas compression with hydrokinetic amplifier. 4,673,335, 6-16-87, Cl. 417-54.000.

Nicol, David A.: *See*—
Miller, Thomas J.; and Nicol, David A., 4,708,726, Cl. 65-3.120.

Nicol, Steven M., to NI Industries, Inc. Self-opening receptacle assembly with adjustable rollers. 4,712,845, 12-15-87, Cl. 312-319.000.

Nicol, Thomas H.: *See*—
Niemann, Ralph C.; Gonczy, John D.; and Nicol, Thomas H., 4,696,169, Cl. 62-514.00R.

Nicolai, Rainer; Wachholz, Winfried; and Weicht, Ulrich, to Hochtemperatur-Reaktorbau GmbH. Process and installation to secure a prestressed concrete pressure vessel surrounded by a reactor protection building against excessive pressure and to prevent the release of activity to the environment. 4,645,641, 2-24-87, Cl. 376-283.000.

Nicolas, Andre, to Commissariat a l'Energie Atomique. Pulse generator. 4,645,941, 2-24-87, Cl. 307-110.000.

Nicolas, Bernard, to Service National Electricite de France. Overcurrent protection device. 4,697,218, 9-29-87, Cl. 361-87.000.

Nicolas, Denise: *See*—
Durand, Jean-Pierre; Nicolas, Denise; Kohler, Norbert; Dawans, Francois; and Candau, Francoise, 4,681,912, Cl. 524-827.000.

Nicolas, Gerard: *See*—
Massit, Claude; Nicolas, Gerard; and Turc, Gerard, 4,684,181, Cl. 439-59.000.
Millon-Fremillon, Bruno; and Nicolas, Gerard, 4,671,593, Cl. 439-326.000.

Nicolas, Jacques; and Degrande, Gilbert, to Stein Industrie. Method of bending a thick metal tube, and apparatus for implementing the method. 4,686,844, 8-18-87, Cl. 72-13.000.

Nicolas, Jean-Marie, to U.S. Philips Corporation. Apparatus for examining an object by ultrasonic echography. 4,630,966, 7-21-87, Cl. 73-597.000.

Nicolas, Jean-Marie, to U.S. Philips Corporation. Method of and device for scanning objects by means of ultrasound echography. 4,688,428, 8-25-87, Cl. 73-602.000.

Nicolas, Jean-Marie; and Pesque, Patrick, to U.S. Philips Corporation. Device for combined B-scan and B/A imaging. 4,702,258, 10-27-87, Cl. 128-660.000.

Nicolas, Jean-Marie C.: *See*—
Pesque, Patrick R.; and Nicolas, Jean-Marie C., 4,714,846, Cl. 310-317.000.

Nicolas, Michel: *See*—
Bouteille, Daniel; Nicolas, Michel; and Guillin, Daniel, 4,690,035, Cl. 91-442.000.
Bouteille, Daniel; Nicolas, Michel; and Prudhomme, Pierre, 4,702,276, Cl. 137-580.000.

Nicolas, Renee : *See*—
Dodin, Andre ; Avrameas, Eustrate; Goud, Bruno; Guillou, Michel; and Nicolas, Renee , 4,677,055, Cl. 435-7.000.

Nicolas, Yvon M. Orthodontic toothbrush. 4,706,322, 11-17-87, Cl. 15-106.000.

Nicolau, Claude; and Raimond, Jacques, to Inverko Industrie Vertriebs Kontor GmbH & Co., KG. Procedure for the enhancement of the resistance to arsenite and arsenate of *Thiobacillus ferrooxidans* and *Bacillus subtilis*. 4,716,114, 12-29-87, Cl. 435-172.300.

Nicolau, Ioan; and Aguilo, Adolfo, to Celanese Corporation. Process for producing 2-hydroxyphenyl lower alkyl ketones. 4,652,683, 3-24-87, Cl. 568-319.000.

Nicolau, Yann F., to Commissariat a l'Energie Atomique. Process and apparatus for the deposition on a substrate of a thin film of a compound containing at least one cationic constituent and at least one anionic constituent. 4,675,207, 6-23-87, Cl. 427-82.000.

Nicolau, Yves C.: *See*—
Ropars, Claude; Nicolau, Yves C.; and Chassaigne, Maurice, 4,652,449, Cl. 424-101.000.

Nicolay, David: *See*—
Plut, Leonard F.; and Nicolay, David, 4,677,477, Cl. 358-111.000.

Nicolay GmbH: *See*—
Muz, Edwin, 4,647,138, Cl. 339-147.00P.
Muz, Edwin, 4,660,790, Cl. 248-68.100.

Nicolay, Hugh C.; and Lucas, William G., to Harris Corporation. Fabrication of isolated regions for use in self-aligning device process utilizing selective oxidation. 4,670,769, 6-2-87, Cl. 357-50.000.

Nicolet Instrument Corporation: *See*—
Anderson, Charles R., 4,678,333, Cl. 356-346.000.
Boese, Roland, 4,678,340, Cl. 366-111.000.
Brierley, Philip R.; and Lowry, Stephen R., 4,695,727, Cl. 250-328.090.
Ghaderi, Sahba; and Littlejohn, Duane P., 4,668,864, Cl. 250-291.000.
Muething, Gerald F., Jr., 4,703,448, Cl. 364-481.000.
Niemeyer, Robert, 4,705,419, Cl. 401-65.000.

Nicoletta, Roger A.; and Downey, Emil. Grasping utensil. 4,715,639, 12-29-87, Cl. 294-99.200.

Nicoletti, Alberto: *See*—
Marchionni, Giuseppe; Tonelli, Claudio; and Nicoletti, Alberto, 4,684,452, Cl. 204-157.940.

Nicoli, David F.; and Elings, Virgil B. Immunoassay using optical interference detection. 4,647,544, 3-3-87, Cl. 436-518.000.

Nicolin, Johannes: *See*—
Ortwein, Hermann; Krettek, Ottmar; and Nicolin, Johannes, 4,637,646, Cl. 295-37.000.

Nicoll, Andrew R.; and Singheiser, Lorenz, to BBC Aktiengesellschaft Brown, Boveri & Cie. Method of applying a protective layer to an oxide dispersion hardened superalloy. 4,675,204, 6-23-87, Cl. 427-35.000.

Nicoll, Douglas E. Weighted beach blanket. 4,709,430, 12-1-87, Cl. 5-417.000.

Nicollet, Andre: *See*—
Henry, Yves; Nicollet, Andre; and Villard, Michel, 4,665,609, Cl. 29-572.000.
Yves, Henry; Nicollet, Andre; and Villard, Michel, 4,696,094, Cl. 437-23.000.

Nicollini, Germano; and Senderowicz, Daniel, to SGS Microelettronica S.p.A. Internal all-differential operational amplifier for CMOS integrated circuits. 4,714,895, 12-22-87, Cl. 330-258.000.

Nicoloso, Dante, to Alsthom. Operating mechanism for a circuit-breaker, and a circuit-breaker fitted with the mechanism. 4,678,877, 7-7-87, Cl. 200-148.00F.

Nicoloso, Dante, to Alsthom. High-tension circuit-breaker having arc-extinguishing gas under pressure. 4,700,029, 10-13-87, Cl. 200-148.00B.

Nicolotti, Robert A.; and Dean, Richard T., to Mallinckrodt, Inc. Coupling agents for radiolabeled antibody fragments. 4,659,839, 4-21-87, Cl. 548-546.000.

Nicolson, Peter J., to C4 Carbides plc. Method for applying material to a substrate. 4,643,740, 2-17-87, Cl. 51-293.000.

Nicora, Carlo: *See*—
Li Bassi, Giuseppe; Cadona, Luciano; Nicora, Carlo; and Carlini, Carlo, 4,672,079, Cl. 522-35.000.

Nicosia, Salvatore J.: *See*—
Johnson, Van B.; and Nicosia, Salvatore J., 4,712,228, Cl. 378-185.000.

Nida, Edmund A. Security screen assembly. 4,644,697, 2-24-87, Cl. 49-401.000.

Niddam, Roger: *See*—
Karcher, Gilles; Amor, Max; Niddam, Roger; and Villemot, Jean-Pierre, 4,685,473, Cl. 128-772.000.
Karcher, Gilles; Amor, Max; Niddam, Roger; and Villemot, Jean-Pierre, 4,697,574, Cl. 128-1.00D.

Nidec-Torin Corporation: *See*—
English, George A.; and Marracino, Charles R., 4,682,065, Cl. 310-90.000.

Nidiffer, Charles A.; and Van Camp, Raymond E., to Bunn-O-Matic Corporation. Coffee grinder with bag actuated switch. 4,685,624, 8-11-87, Cl. 241-36.000.

Nidiffer, Charles A.; and Van Camp, Raymond E., to Bunn-O-Matic Corporation. Bag-receiving chute for coffee grinder. 4,714,206, 12-22-87, Cl. 241-100.000.

Nieass, Christopher S.: *See*—
Latif, Sherif; Nieass, Christopher S.; and Warren, Peter A., 4,688,946, Cl. 366-182.000.

Niebel, Harald: *See*—
Gugel, Bernd; Niebel, Harald; Ott, Hubert; Heisele, Horst; Kitzberger, Herbert; and Seybold, Wolfgang, 4,674,179, Cl. 29-602.00R.
Gugel, Bernd; Niebel, Harald; and Ott, Hubert, 4,695,174, Cl. 400-124.000.

Nieberding, Howard A., Jr. Mounting assembly for protective lighting system for metal forming machine or the like. 4,699,260, 10-13-87, Cl. 192-134.000.

Nieberle, Juergen: *See*—
Kempter, Fritz E.; and Nieberle, Juergen, 4,675,375, Cl. 528-140.000.

Niebes, Paul J.: *See*—
Roncucci, Romeo; Gillet, Claude L.; Cordi, Alexis H.; Martens, Mark A.; Roba, Joseph L.; Niebes, Paul J.; Lambelin, Georges E.; and Van Dorsser, William R., 4,639,468, Cl. 514-620.000.

Niebling, Tracy J.; and Bieger, Walter I., to Fluoroware, Inc. Bottom loading wafer carrier box. 4,684,021, 8-4-87, Cl. 206-334.000.

Nieboer, Keith A.; and Tucker, Herbert D., to Donnelly Corporation. Molded panel assembly and fasteners therefor. 4,700,525, 10-20-87, Cl. 52-698.000.

bylski, Leonard M.: *See*—
Zaweski, Edward F.; and Niebylski, Leonard M., 4,652,272, Cl. 44-57.000.
d, Herman F., to General Electric Company. Substrate for a semiconductor chip package and a method of fabricating the same. 4,657,797, 4-14-87, Cl. 428-64.000.
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eder, Elmar: *See*—
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eder, Erin G., to Atlantic Research Corporation. Chemical passivation of amorphous boron powder. 4,637,847, 1-20-87, Cl. 149-6.000.
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iederer, Hans: *See*—
Muller, Rolf; Niederer, Hans; and Hahn, Othmar, 4,648,994, Cl. 260-380.000.
iederer, Kurt W. Multistage fluid filter and method. 4,681,604, 7-21-87, Cl. 55-96.000.
iederer, Peter G.: *See*—
Frey, Otto; and Niederer, Peter G., 4,666,449, Cl. 623-22.000.
iederer, Roland R.; and Zulliger, Hans W., to Cilag, AG. Medicated suppository. 4,698,359, 10-6-87, Cl. 514-396.000.
iedergeses, Thomas J.: *See*—
Brewer, Donaldee; Seiler, Ronald R.; and Niedergeses, Thomas J., 4,634,357, Cl. 425-36.000.
iederhauser, Alois; and Seibel, Klaus, to Klinge Pharma GmbH. Use of etilefrin and etilefrin pivalate in the long term treatment of circulatory disorders not due to hypotonia. 4,663,354, 5-5-87, Cl. 514-649.000.
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iedermeier, Elmar: *See*—
Graul, Achim; and Niedermeier, Elmar, 4,715,265, Cl. 91-170.00R.
iederst, Kenneth W.: *See*—
Sirkoch, Robert J.; and Niederst, Kenneth W., 4,634,602, Cl. 427-44.000.
iederstatter, Walter: *See*—
Reiss, Kurt; Niederstatter, Walter; Stroszynski, Joachim; Bohm, Dieter; and Sprintschnik, Gerhard, 4,655,136, Cl. 101-459.000.
Reiss, Kurt; and Niederstatter, Walter, 4,672,022, Cl. 430-278.000.
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Engel, Ulrich; Niegel, Fritz; and Groschen, Jurgen, 4,658,500, Cl. 29-724.000.
ieglos, Donald J.: *See*—
Appelbaum, Matthew A.; Lehman, David B.; Nieglos, Donald J.; Nolte, Stanley C.; and Oehler, Michael P., 4,683,968, Cl. 380-4.000.
ieh, Edward C. Y., to Texaco Inc. Treatment of gas streams for removal of acid gases. 4,696,803, 9-29-87, Cl. 423-228.000.
ieh, Edward C. Y., to Texaco Inc. Selective recovery of carbon dioxide. 4,710,362, 12-1-87, Cl. 423-228.000.
ieh, Edward C. Y.: *See*—
Duranleau, Roger G.; Nieh, Edward C. Y.; and Knifton, John F., 4,691,041, Cl. 558-277.000.
iehaus, Gerald; and Bivens, Ernest, to Evana Tool & Engineering Inc. Method and apparatus for storing and handling trays for workpieces. 4,702,660, 10-27-87, Cl. 414-95.000.
iekamp, Carl W.; and Wideman, James D., to A. E. Staley Manufacturing Company. Enrichment of fructose syrups. 4,634,472, 1-6-87, Cl. 127-60.000.
iekrasz, Francis M.; Kasper, Melvin C.; and Bockwinkel, Gerald J., to Ardco, Inc. Sliding door assembly. 4,641,461, 2-10-87, Cl. 49-404.000.
Niekrasz, Francis M.; Kaspar, Melvin C.; and Bockwinkel, Gerald J., to Ardco, Inc. Sliding door assembly. 4,656,781, 4-14-87, Cl. 49-404.000.
Niekrasz, Frank; and Menke, Andrew. Glass assembly for refrigerator doors and method of manufacture. 4,691,486, 9-8-87, Cl. 52-172.000.
Niel, Philippe: *See*—
Henin, Jean-Pierre; and Niel, Philippe, 4,645,452, Cl. 432-58.000.
Nield, Eric: *See*—
Daoust, Daniel J. M.; Devaux, Jacques J.; Legras, Roger M.; Mercier, Jean P.; and Nield, Eric, 4,657,990, Cl. 525-471.000.
Ward, Mary V.; Nield, Eric; and Staniland, Philip A., 4,638,037, Cl. 525-471.000.
Nield, Joseph G., Jr.: *See*—
Pejouhy, Radi; Nield, Joseph G., Jr.; D'Entremont, John R.; Beggs, Louis C.; and Rotulo, Fabrizio, 4,713,717, Cl. 361-26.000.
Nield, Kenneth J.: *See*—
Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Onystok, Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dworsky, Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., 4,639,631, Cl. 310-344.000.
Nielinger, Werner; Stix, Wolfgang; and Bottenbruch, Ludwig, to Bayer Aktiengesellschaft. Polyamide stabilized against the effect of light with maleic imide carboxylic acid chloride chain terminator. 4,645,822, 2-24-87, Cl. 528-336.000.
Nielinger, Werner; Michael, Dietrich; Fullmann, Heinz-Josef; Binsack, Rudolf; and Selbeck, Harald, to Bayer Aktiengesellschaft. Stabilized red phosphorus and the use thereof for flameproof, thermoplastic polyamide moulding compositions. 4,670,487, 6-2-87, Cl. 524-80.000.
Nielinger, Werner; Brinkmeyer, Hermann; Binsack, Rudolf; Bottenbruch, Ludwig; and Fullmann, Heinz-Josef, to Bayer Aktiengesellschaft. Process for the production of copolyamide from aromatic dicarboxylic acids, adipic acid and hexamethylene diamine. 4,673,728, 6-16-87, Cl. 528-339.000.
Nielsen, A. Lamont. Candy dispensing apparatus. 4,714,419, 12-22-87, Cl. 425-126.00S.
Nielsen, Alf. Electrical universal connecting box. 4,649,230, 3-10-87, Cl. 174-65.00R.
Nielsen, Arnold D., to Ford Motor Company. Variable force solenoid. 4,635,683, 1-13-87, Cl. 137-625.650.
Nielsen, Bent A. Trigger mechanism for a weapon. 4,706,401, 11-17-87, Cl. 42-69.030.
Nielsen, Bent K.: *See*—
Hansen, Otto D.; and Nielsen, Bent K., 4,639,976, Cl. 17-48.000.
Nielsen, Bjarne M. Protecting device for transparencies. 4,679,923, 7-14-87, Cl. 353-120.000.
Nielsen, Corine-Madeleine: *See*—
Lunder, Tito-Livio; Hoffmann, Birgit; and Nielsen, Corine-Madeleine, 4,680,193, Cl. 426-597.000.
Nielsen, Darryl M.: *See*—
Harbison, Joe A.; LaGrange, Nyle D.; and Nielsen, Darryl M., 4,679,991, Cl. 417-360.000.
Harbison, Joe A.; Nielsen, Darryl M.; and McDaniel, Dorothy D., 4,687,023, Cl. 137-533.130.
La Grange, Nyle D.; Nielsen, Darryl M.; and Harbison, Joe A., 4,680,437, Cl. 200-84.00R.
LaGrange, Nyle D.; Nielsen, Darryl M.; and Wheeler, Charles F., 4,684,331, Cl. 417-366.000.
Wheeler, Charles F.; and Nielsen, Darryl M., 4,709,124, Cl. 174-65.00R.
Nielsen, Darryl N.; and Wheeler, Charles F., to Marley-Wylain Company, The. Roll-formed submersible pump. 4,708,589, 11-24-87, Cl. 415-199.200.
Nielsen, David A.: *See*—
Botstiber, Dietrich W.; and Nielsen, David A., 4,657,671, Cl. 210-86.000.
Nielsen, Elgard: *See*—
Nielsen, Per G.; and Nielsen, Elgard, 4,674,680, Cl. 236-44.00A.
Nielsen, J. McHenry; and Miller, Wayne G. Bifocal intra-ocular lens. 4,636,211, 1-13-37, Cl. 623-6.000.
Nielsen, Jens P.; and Gregersen, Johan C., to Dansk Eternit-Fabrik A/S. Method of producing a plate with a decorative pattern in its surface. 4,655,981, 4-7-87, Cl. 264-162.000.
Nielsen, Lawrence E.: *See*—
Nielsen, Orlan S.; and Nielsen, Lawrence E., 4,711,446, Cl. 272-70.100.
Nielsen, Margaret J.: *See*—
McWilliams, Judy A.; and Nielsen, Margaret J., 4,653,789, Cl. 294-1.100.
Nielsen, Max E.; Labrum, Joseph H.; and Grant, Patrick S., to Sperry Corporation. Exceedance counting integrating photo-diode array. 4,679,215, 7-7-87, Cl. 377-95.000.
Nielsen, Niels J., to Hewlett-Packard Company. Ink jet printhead having a preloaded check valve. 4,677,447, 6-30-87, Cl. 346-140.00R.
Nielsen, Orlan S.; and Nielsen, Lawrence E. Stilt. 4,711,446, 12-8-87, Cl. 272-70.100.
Nielsen, Paul H.: *See*—
Kuhlen, Harry J.; and Nielsen, Paul H., 4,670,660, Cl. 250-577.000.
Nielsen, Per G.; and Nielsen, Elgard, to V. Kann Rasmussen Industri A/S. Valve device for the automatic control of an air intake dependent on varying humidity. 4,674,680, 6-23-87, Cl. 236-44.00A.
Nielsen, Ralph H., Jr.: *See*—
Hackleman, David E.; Nielsen, Ralph H., Jr.; and Leban, Marzio A., 4,664,746, Cl. 156-628.000.
Nielsen, Richard H., to Phillips Petroleum Company. Fluid feed apparatus. 4,687,642, 8-18-87, Cl. 422-140.000.
Nielsen, Richard H., to Phillips Petroleum Company. Fluid feed method. 4,713,169, 12-15-87, Cl. 208-157.000.
Nielsen, Robert, to Solana, Inc. Fixture for skin tanning by selective light source. 4,660,561, 4-28-87, Cl. 128-376.000.
Nielsen, Steven T. Centrifuge tube having reusable seal. 4,690,670, 9-1-87, Cl. 494-16.000.
Nielsen, Susan T.: *See*—
Abou-Gharbia, Magid A.; and Nielsen, Susan T., 4,710,572, Cl. 544-267.000.
Abou-Gharbia, Magid A.; and Nielsen, Susan T., 4,716,165, Cl. 514-265.000.
Abou-Gharbia, Magid A.; Nielsen, Susan T.; and Webb, Michael B., 4,716,166, Cl. 514-265.000.
Nielsen, Werner K.: *See*—
Madsen, Rud F.; Nielsen, Werner K.; and Johnsen, Aksel F., 4,666,603, Cl. 210-321.100.
Nielson, Albert E.: *See*—
Griffith, Carroll L.; and Nielson, Albert E., 4,637,305, Cl. 99-481.000.
Nielson, Otto V.: *See*—
Laursen, Henning; Mosgaard, John; Nielson, Otto V.; and Poland, Clark L., 4,640,810, Cl. 264-518.000.

Nieman Design Systems Inc.: *See*—
Gurzynski, Richard M., 4,684,030, Cl. 211-88.000.

Nieman, Frank C. Hand manipulated exercise device. 4,643,417, 2-17-87, Cl. 272-67.000.

Niemand Bros. Inc.: *See*—
Gretshel, James; and Chezek, Norman, 4,674,520, Cl. 132-82.00C.

Niemann, Ludwig C., to McCully, Gerald R.; and Niemann, Ludwig C. Florist's implement. 4,681,224, 7-21-87, Cl. 206-423.000.

Niemann, Ralph C.; Gonczy, John D.; and Nicol, Thomas H., to United States of America, Energy. Cryogenic support member. 4,696,169, 9-29-87, Cl. 62-514.00R.

Niemela, Tapio. Snow shaping means. 4,693,023, 9-15-87, Cl. 37-224.000.

Niemela, W. Wally: *See*—
Quenzi, Philip J., 4,658,519, Cl. 37-23.000.

Niemerg, Willi, to Westfalia Separator AG. Control valve for self-emptying centrifuge drum. 4,645,485, 2-24-87, Cl. 494-27.000.

Niemers, Ekkehard; Grutzmann, Rudi; Mardin, Mithat; Busse, Wolf-Dieter; and Meyer, Horst, to Bayer Aktiengesellschaft. Anti-thrombotic pharmaceutical compositions comprising tricyclo-4H-1,4-benzothiazine derivatives and method of use therefor. 4,636,497, 1-13-87, Cl. 514-215.000.

Niemeyer, Lutz, to BBC Brown, Boveri & Company, Limited. Gas-blast switch. 4,684,773, 8-4-87, Cl. 200-148.00R.

Niemeyer, Lutz: *See*—
Horvath, Imre; Niemeyer, Lutz; and Widl, Wolfgang, 4,689,453, Cl. 200-148.00B.

Niemeyer, Robert, to Nicolet Instrument Corporation. Mechanical pencil with automatic lead advance. 4,705,419, 11-10-87, Cl. 401-65.000.

Niemeyer, Trenton A., to Filcon Corporation. Alarm system for respirator apparatus and method of use. 4,674,492, 6-23-87, Cl. 128-202.220.

Niemeyer, Ulf: *See*—
Engel, Jurgen; Kleemann, Axel; Niemeyer, Ulf; Hilgard, Peter; and Pohl, Joerg, 4,716,242, Cl. 558-81.000.

Niemi, Onni W.: *See*—
Payn, Ward J.; and Niemi, Onni W., 4,656,341, Cl. 235-101.000.
Payn, Ward J.; Niemi, Onni W.; McDonald, John V.; Simon, Elizabeth A.; and Leonard, Daniel P., 4,658,122, Cl. 235-101.000.

Niemi, Riitta: *See*—
Talonen, Tauno; and Niemi, Riitta, 4,698,250, Cl. 428-58.000.

Niemiaho, Lauri: *See*—
Karlsson, Bengt; and Niemiaho, Lauri, 4,662,856, Cl. 37-117.500.

Nienburg, Hans: *See*—
Flatz, Josef; Weddigen, Gert; Bohme, Hans-Joachim; Grieser, Fritz; Huber, Robert; and Nienburg, Hans, 4,691,082, Cl. 174-106.0SC.

Nienhaus, Jurgen; and Hopp, Rudolf, to Haarman & Reimer GmbH. Process for the purification of crude β-phenylethyl alcohol. 4,664,755, 5-12-87, Cl. 203-59.000.

Nierenberg, Mort J.: *See*—
Thro, Dennis E.; and Nierenberg, Mort J., 4,650,436, Cl. 445-63.000.

Nies, Gary M.: *See*—
Murphy, Kenneth E.; Martin, Ronald A.; and Nies, Gary M., 4,696,660, Cl. 464-170.000.

Niesen, Joseph W.: *See*—
Figueroa, Luis; Niesen, Joseph W.; Zinkiewicz, Lawrence M.; and Morrison, Charles B., 4,634,928, Cl. 313-499.000.

Nieskens, Martin J. P. C.; and Ramamurthy, Ramalinga, to Shell Oil Company. Process for removing hydrogen sulfide from gases. 4,673,557, 6-16-87, Cl. 423-230.000.

Niesor, Eric: *See*—
Bentzen, Craig L.; Guyon-Gellin, Yves; Kalathakis, Kyriacos; Phan, Hieu T.; Nguyen Mong, Lan; Niesor, Eric; and Rossier, Jean-Robert, 4,696,920, Cl. 514-89.000.

Niessen, Frank R.; and Schneider, Roy W., to United Technologies Corporation. Propeller Synchrophaser (R) device and mode logic. 4,659,283, 4-21-87, Cl. 416-34.000.

Niessen, Frank R.: *See*—
Harner, Kermit L.; Niessen, Frank R.; and Sherman, Robert, 4,656,362, Cl. 290-44.000.

Niethammer, Kurt: *See*—
Faust, Eberhard; Niethammer, Kurt; and Hammer, Ludwig, 4,695,095, Cl. 297-410.000.
Krugener, Rolf; Faust, Eberhard; and Niethammer, Kurt, 4,650,250, Cl. 297-410.000.

Nieto, Augustine: *See*—
Kolomayets, George; Ryan, Allen; Nieto, Augustine; and Andrus, Bryan, 4,714,244, Cl. 272-72.000.
Pasierb, John J., Jr.; Nieto, Augustine; Andrus, Bryan; Kolomayets, George; Oglesby, Gary; and Ryan, Allen, 4,674,741, Cl. 272-72.000.

Nieuwendijk, Joris A. M.; Heijnemans, Werner A. L.; Sluijterman, Albertus A. S.; and Vink, Nicolaas G., to U.S. Philips Corporation. Combination of a monochrome cathode-ray tube and a deflection unit having a high resolution. 4,703,232, 10-27-87, Cl. 315-370.000.

Nieuwstad, Ronald L., to Peder Smedvig Aksjeselskap. Down-hole blow-out preventers. 4,712,613, 12-15-87, Cl. 166-53.000.

Nievergelt, Hermann E.: *See*—
Bednorz, Johannes G.; Gueret, Pierre L.; Nievergelt, Hermann E.; Ott, Hanspeter; Pohl, Wolfgang D.; and Widmer, Daniel F., 4,643,627, Cl. 414-217.000.

Niewohner, Ulrich: *See*—
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Kabbe, Hans-Joachim; Niewohner, Ulrich; Widdig, Arno; Knorr, Andreas; Garthoff, Bernward; and Kazda, Stanislav, 4,659,737, Cl. 514-456.000.

Nifco Inc.: *See*—
Arakawa, Masaru; and Kaneko, Yoshio, 4,660,871, Cl. 292-81.000.
Arakawa, Masaru, 4,691,589, Cl. 74-573.00F.
Arakawa, Masaru; and Numata, Masanori, 4,691,811, Cl. 188-290.000.
Arakawa, Masaru; and Numata, Masanori, 4,701,229, Cl. 156-69.000.
Fukuda, Moritoshi, 4,697,948, Cl. 403-71.000.
Fukuhara, Kunihiro, 4,671,717, Cl. 411-182.000.
Fukuhara, Kunihiro, 4,696,128, Cl. 49-492.000.
Hara, Kunio, 4,653,155, Cl. 24-16.0PB.
Hirano, Seiji; and Sato, Youji, 4,700,913, Cl. 248-73.000.
Hirohata, Toshio, 4,668,145, Cl. 411-508.000.
Hirohata, Toshio, 4,688,695, Cl. 220-336.000.
Inaba, Akio, 4,676,706, Cl. 411-175.000.
Kurihara, Kazumasa, 4,691,883, Cl. 248-74.200.
Kurosaki, Mutsuo, 4,657,291, Cl. 292-6.000.
Mitomi, Seiji, 4,675,937, Cl. 16-2.000.
Mitomi, Seiji, 4,708,306, Cl. 248-74.300.
Mizusawa, Akira, 4,644,614, Cl. 24-453.000.
Mizusawa, Akira, 4,653,616, Cl. 188-290.000.
Mizusawa, Akira; and Nakama, Daiji, 4,679,958, Cl. 403-353.000.
Mizusawa, Akira, 4,684,463, Cl. 210-172.000.
Mizusawa, Akira, 4,691,623, Cl. 98-2.180.
Mizusawa, Akira, 4,701,064, Cl. 403-71.000.
Mizusawa, Akira, 4,705,190, Cl. 220-375.000.
Mizusawa, Akira, 4,708,895, Cl. 428-31.000.
Nakama, Daiji; and Arakawa, Masaru, 4,704,059, Cl. 411-182.000.
Nakayama, Hiromichi, 4,688,834, Cl. 292-5.000.
Nakayama, Hiromichi; and Fukuda, Moritoshi, 4,691,416, Cl. 24-90.00B.
Okawa, Toshiya, 4,705,425, Cl. 403-376.000.
Omata, Nobuaki, 4,635,763, Cl. 188-268.000.
Omata, Nobuaki, 4,637,765, Cl. 411-41.000.
Omata, Nobuaki, 4,638,528, Cl. 16-82.000.
Omata, Nobuaki, 4,697,673, Cl. 188-291.000.
Osada, Hiroshi, 4,704,929, Cl. 81-451.000.
Osada, Hiroshi, 4,705,245, Cl. 248-74.300.
Oshida, Tsutomu, 4,655,424, Cl. 248-73.000.
Shioda, Mitsugu; and Inaba, Akio, 4,688,829, Cl. 285-61.000.
Shioda, Mitsugu; and Takahashi, Atsushi, 4,688,961, Cl. 403-389.000.
Shiraishi, Toshiyuki, 4,665,285, Cl. 200-61.620.
Takahashi, Atsushi, 4,657,425, Cl. 403-104.000.
Takahashi, Norio, 4,715,095, Cl. 24-453.000.
Tanaka, Toshie, 4,644,611, Cl. 24-231.000.
Umezawa, Takashi; and Watanabe, Koji, 4,709,949, Cl. 292-6.000.

Nigam, Anil: *See*—
Toldi, George; Nigam, Anil; Crain, Ronald; and Mercurio, Dominic, 4,683,506, Cl. 360-105.000.

Nigawara, Seiitsu: *See*—
Yamada, Hiroshi; Iioka, Michihiro; Sugano, Akira; Takita, Atsushi; Nigawara, Seiitsu; and Fukai, Masayuki, 4,707,778, Cl. 364-132.000.

Nigg, Berno: *See*—
Deutschenbaur, Paul; Rupprecht, Hans; Burtscher, Norbert; and Nigg, Berno, 4,701,083, Cl. 408-240.000.

Nigg, Daniel; DeRoss, Robert; Sommer, Edward; Raymer, Jack D., II; and Crane, Burke, to Molex Incorporated. Stamped circuitry assembly. 4,659,157, 4-21-87, Cl. 339-18.00R.

Niggemann, Richard; and Readman, John, to Sundstrand Corporation. Fluid jet impingement heat exchanger for operation in zero gravity conditions. 4,643,250, 2-17-87, Cl. 165-159.000.

Niggemann, Richard; and Readman, John, to Sundstrand Corporation. Fluid jet impingement heat exchanger for operation in zero gravity conditions. 4,690,210, 9-1-87, Cl. 165-159.000.

Niggemann, Richard E., to Sundstrand Corporation. Heat exchanger. 4,637,456, 1-20-87, Cl. 165-104.330.

Niggemann, Richard E.; and Ellis, Wilbert E., to Sundstrand Corporation. Forced flow evaporator for unusual gravity conditions. 4,697,427, 10-6-87, Cl. 62-119.000.

Niggemeyer, Gert G. High-tension capacitor-discharge ignition apparatus for internal combustion engines. 4,696,280, 9-29-87, Cl. 123-598.000.

Niggl, Heinz: *See*—
Glomb, Kurt; Niggl, Heinz; Pelzl, Leo; and Zell, Karl, 4,659,165, Cl. 339-176.00M.
Glomb, Kurt; Niggl, Heinz; Pelzl, Leo; and Zell, Karl, 4,710,132, Cl. 439-79.000.

Nighan, William L.; Tittel, Frank K.; and Wilson, William L., Jr., to United Technologies Corporation. Multi-component buffer gas mixture for XeF(C→A) laser. 4,646,311, 2-24-87, Cl. 372-60.000.

Nighan, William L.; Tittel, Frank K.; and Wilson, William L., Jr., to United Technologies Corporation. Two-halogen donor mixture for XeF (C→A) laser. 4,660,210, 4-21-87, Cl. 372-60.000.

Nighan, William L.; and Otter, Fred A., Jr., to United Technologies Corporation. Optical display from XeF excimer fluorescence. 4,703,229, 10-27-87, Cl. 315-169.400.

ingale, Douglas J.: *See*—
zuminski, Gary F.; and Nightingale, Douglas J., 4,713,935, Cl. 60-229.000.
ingale, James M.: *See*—
arkhordar, Mohammad; Nightingale, James M.; and May, Denis R. W., 4,650,492, Cl. 623-24.000.
ingale, Stephen J.: *See*—
oberts, Clayton R.; and Nightingale, Stephen J., 4,661,997, Cl. 455-327.000.
, Olaf; Barrett, John S.; and Green, Martin A. Low-loss and -torque ACSR conductors. 4,673,775, 6-16-87, Cl. 174-130.000.
rikawa, Kazunori; Kitano, Kisei; Sugimori, Shigeru; and Ogawa, suya, to Chisso Corporation. Novel liquid crystal compound. 58,425, 5-26-87, Cl. 252-299.610.
rikawa, Kazunori: *See*—
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ugimori, Shigeru; and Nigorikawa, Kazunori, 4,642,199, Cl. 252-299.610.
ugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,654,162, Cl. 252-299.630.
ugimori, Shigeru; Nigorikawa, Kazunori; and Goto, Yasuyuki, 4,659,500, Cl. 252-299.500.
ugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,661,283, Cl. 252-299.630.
ugimori, Shigeru; Ogawa, Tetsuya; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,673,529, Cl. 252-299.630.
ugimori, Shigeru; Nigorikawa, Kazunori; and Ogawa, Tetsuya, 4,684,477, Cl. 252-299.610.
ugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Ogawa, Tetsuya; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,684,478, Cl. 252-299.630.
oshida, Naoyuki; Kitano, Kisei; Furukawa, Yoshito; Ogawa, Tetsuya; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,640,796, Cl. 252-299.610.
lli, Biagio, Sr. Carton opening apparatus. 4,678,456, 7-7-87, Cl. 309.000.
lli, Biagio J., Sr., to Nigrelli Systems, Inc. Case packer. 4,633,655, 87, Cl. 53-543.000.
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lli Systems, Inc.: *See*—
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hi, Iwao: *See*—
oda, Naoki; Nihashi, Iwao; and Sato, Kazuhiro, 4,710,608, Cl. 219-161.000.
Masayasu; Suwa, Masateru; and Chigasaki, Mitsuo, to Hitachi, Thin film forming method through sputtering and sputtering ice. 4,692,230, 9-8-87, Cl. 204-192.310.
Mitsuo; and Kimura, Tomoaki, to Hitachi, Ltd. Method of reasing width of thin slab and apparatus therefor. 4,651,550, 6-87, Cl. 72-183.000.
Mitsuo: *See*—
ajiwara, Toshiyuki; Kimura, Tomoaki; and Nihei, Mitsuo, 4,706,871, Cl. 228-158.000.
Ryo: *See*—
akashima, Seiichiro; Toyoda, Kenichi; Torii, Nobutoshi; and Nihei, Ryo, 4,637,773, Cl. 414-732.000.
akashima, Seiichiro; Toyoda, Kenichi; Nihei, Ryo; and Mizuno, Hitoshi, 4,688,984, Cl. 414-735.000.
a, Shohachi, to Citizen Watch Co., Ltd. Governor device for ter. 4,663,982, 5-12-87, Cl. 74-574.000.
Ceramics Co., Ltd.: *See*—
amai, Iwao, 4,703,023, Cl. 501-102.000.
Dempa Kogyo Co., Ltd.: *See*—
akata, Hozumi; and Yamakawa, Tsutomu, 4,639,632, Cl. 310-351.000.
Den-Netsu Keiki Co., Ltd.: *See*—
ondo, Kenshi, 4,679,721, Cl. 228-40.000.
ondo, Kenshi, 4,681,249, Cl. 228-37.000.
ondo, Kenshi, 4,712,963, Cl. 414-222.000.
Denshizairyo Kabushiki Kaisha: *See*—
kubo, Masao; Sugaya, Kiyoshi; Takagi, Toshinori; and Ishikawa, Junzo (said Masao Okubo and Kiyoshi Sugaya assors. to), 4,638,217, Cl. 315-111.810.
Jukagaku Kogyo Kabushiki Kaisha: *See*—
no, Kunihiko; Nakazato, Kunihiro; Nishigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mihara, Jiro; and Takai, Kiyoaki, 4,639,927, Cl. 373-84.000.
Jumbo Kabushiki Kaisha: *See*—
akahashi, Hiroshi, 4,685,209, Cl. 29-806.000.
Kaiheiki Kogyo Kabushiki Kaisha: *See*—
hashi, Shigeo, 4,707,765, Cl. 361-401.000.
Kohden Corporation: *See*—
ahara, Kazuo, 4,688,579, Cl. 128-695.000.
Kohsakuyu Company, Ltd.: *See*—
ao, Tsong K., 4,639,323, Cl. 252-32.500.
Nihon Matai Co., Ltd.: *See*—
Yamada, Hideo; Ichiki, Shigemi; Naniwa, Hisamoto; Uchida, Susumu; Kadokura, Kenji; Tsunoda, Susumu; and Nakajima, Kunio, 4,674,127, Cl. 383-6.000.
Nihon Medi-Physics Co., Ltd.: *See*—
Takahashi, Keietsu; Ueda, Nobuo; Hazue, Masaaki; Yokoyama, Akira; and Ohmomo, Yoshiro, 4,645,660, Cl. 424-1.100.
Takahashi, Keietsu; Ueda, Nobuo; and Hazue, Masaaki, 4,666,697, Cl. 424-1.100.
Nihon Medical Engineering Co., Ltd.: *See*—
Minami, Hiromichi, 4,647,378, Cl. 210-646.000.
Nihon Musen Kabushiki Kaisha: *See*—
Sekine, Chogo, 4,644,358, Cl. 342-356.000.
Nihon Nohyaku Co., Ltd.: *See*—
Seo, Akira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Nishimura, Akira; Konaka, Shigeo; Ohmi, Tetsuto; Munechika, Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, 4,636,519, Cl. 514-397.000.
Nihon Parkerizing Co., Ltd.: *See*—
Fujii, Haruki; Ikada, Shoji; Fukuda, Akimitsu; and Okumura, Yasuo, 4,637,840, Cl. 148-6.200.
Katayama, Toshitake; Kuwamoto, Hiroshi; Iwado, Shuichi; Sonoda, Sakae; Okamoto, Shoji; and Kaburagi, Koji, 4,666,617, Cl. 252-32.000.
Yoshida, Atsunori; Kaneko, Hideaki; and Ogino, Takao, 4,650,525, Cl. 148-6.200.
Nihon Plast Co., Ltd.: *See*—
Endo, Tetugi; and Nishijima, Kazuyoshi, 4,655,101, Cl. 74-552.000.
Sano, Yosiaki, 4,702,156, Cl. 98-40.240.
Nihon Radiator Co., Ltd.: *See*—
Fukazawa, Tetsuo; and Yokoyama, Shigeyoshi, 4,676,714, Cl. 415-72.000.
Fukazawa, Tetsuo; and Yokoyama, Shigeyoshi, 4,708,585, Cl. 415-72.000.
Muto, Yoshihiko; Ohashi, Toshio; and Adachi, Tsunenari, 4,691,862, Cl. 237-12.30A.
Ohashi, Toshio; and Yamamoto, Shukou, 4,682,208, Cl. 357-81.000.
Sugita, Terumitsu; Shinozuka, Hideo; and Murayama, Koji, 4,708,598, Cl. 417-295.000.
Nihon Sanmo Dyeing Co., Ltd.: *See*—
Tomibe, Shinji; and Murasaki, Norio, 4,670,189, Cl. 252-514.000.
Tomibe, Shinji; Gomibuchi, Reizo; and Takahashi, Kiyofumi, 4,681,820, Cl. 428-698.000.
Tomibe, Shinji; Gomibuchi, Reizo; Takahashi, Kiyofumi; and Kato, Noboru, 4,690,854, Cl. 428-195.000.
Nihon Schumacher Kabushiki Kaisha: *See*—
Kuwajima, Soichi, 4,645,596, Cl. 210-193.000.
Nihon Sekiso Kogyo: *See*—
Saotome, Kaoru; Sasaki, Hiroyuki; and Kanbara, Katsuhiro, 4,705,244, Cl. 248-68.100.
Nihon Shinku Gijutsu Kabushiki Kaisha: *See*—
Kimura, Hiroshi; and Abiko, Kenji, 4,705,366, Cl. 350-529.000.
Nakamura, Kyuzo; Ota, Yoshifumi; Asari, Shin; and Asaka, Tsutomu, 4,661,420, Cl. 428-692.000.
Nihon Shuno System Kabushiki Kaisha: *See*—
Shimada, Yoshikatsu, 4,660,901, Cl. 312-111.000.
Nihon Technical Kabushiki Kaisha: *See*—
Ohashi, Tamaki, 4,635,490, Cl. 74-10.330.
Nihon Tokkyo Kanri Company Limited: *See*—
Inagaki, Hiromichi, 4,669,251, Cl. 53-385.000.
Nihon Tokushu Noyaku Seizo K. K.: *See*—
Saito, Junichi; Tamura, Tatsuo; Kurahashi, Yoshio; Uzawa, Shigeru; Matsumoto, Noboru; and Yamaguchi, Naoko, 4,710,509, Cl. 514-384.000.
Nihon Tokushu Noyaku Seizo K.K.: *See*—
Kume, Toyohiko; Tsuboi, Shinichi; Isono, Kunihiro; Sasaki, Shoko; and Hattori, Yumi, 4,675,331, Cl. 514-367.000.
Kume, Toyohiko; Tsuboi, Shinichi; and Isono, Kunihiro, 4,692,436, Cl. 514-129.000.
Kume, Toyohiko; Kurahashi, Yoshio; Isono, Kunihiro; Sakawa, Shinji; and Matsumoto, Noboru, 4,700,006, Cl. 568-67.000.
Kurahashi, Yoshio; Shiokawa, Kozo; Goto, Toshio; Kagabu, Shinzo; Matsumoto, Noboru; and Moriya, Koichi, 4,708,953, Cl. 514-166.000.
Kurahashi, Yoshio; Shiokawa, Kozo; Kagabu, Shinzo; Sakawa, Shinji; and Moriya, Koichi, 4,710,518, Cl. 514-624.000.
Saito, Junichi; Yasui, Kazuomi; Shiokawa, Kozo; and Kamochi, Atsumi, 4,659,370, Cl. 71-98.000.
Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,647,570, Cl. 514-341.000.
Shiokawa, Kozo; Moriya, Koichi; Goto, Toshio; Kamochi, Atsumi; Ito, Seishi; and Horita, Mitsugu, 4,666,503, Cl. 71-90.000.
Shiokawa, Kozo; Kagabu, Shinzo; and Sakawa, Shinji, 4,670,599, Cl. 564-445.000.
Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,678,795, Cl. 514-341.000.
Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,680,294, Cl. 514-256.000.
Nihon Yakin Kogyo Kabushiki Kaisha: *See*—
Ebato, Kazuo; Osumi, Yasuaki; Tamura, Keiji; and Yoshida, Hiroshi, 4,661,415, Cl. 428-570.000.
Nihonshinku Gijutsu Kabushiki Kaisha: *See*—
Nakamura, Kyuzo; Ota, Yoshifumi; and Asaka, Tsutomu, 4,683,176, Cl. 428-692.000.

Nii, Donald S.: *See*—
Harriman, Charles E.; and Nii, Donald S., 4,679,989, Cl. 417-238.000.

Nii, Naotake: *See*—
Mitadera, Takashi; Shirai, Tetsuaki; Nakagawa, Tomozo; Nii, Naotake; and Watanabe, Kozo, 4,688,529, Cl. 123-196.00R.

Nii, Tamotsu, to Konishiroku Photo Industry Co., Ltd. Film winding member. 4,699,489, 10-13-87, Cl. 354-212.000.

Niibe, Masahito: *See*—
Kaneko, Norio; and Niibe, Masahito, 4,697,222, Cl. 361-321.000.

Niida, Taro: *See*—
Inouye, Shigeharu; Koyama, Masao; Miyauchi, Keinosuke; Tsuruoka, Takashi; Kai, Fumio; Matsumoto, Kuniomi; Niida, Taro; and Akita, Eiichi, 4,647,572, Cl. 514-381.000.
Shibahara, Seiji; Okonogy, Tsuneo; Murai, Yasushi; Fukatsu, Shunzo; Niida, Taro; Christensen, Burton G.; and Wakazawa, Tadashi, 4,645,769, Cl. 514-210.000.

Niigata Engineering Co., Ltd.: *See*—
Hamada, Shuji; and Yamamoto, Akira, 4,708,582, Cl. 414-786.000.
Kodera, Masanori; Aizawa, Yasuo; and Ichijo, Kohji, 4,636,701, Cl. 318-635.000.
Takahashi, Susumu, 4,687,016, Cl. 137-240.000.
Yasukawa, Hiroshi, 4,648,171, Cl. 29-568.000.

Niigata, Kunihiro: *See*—
Imai, Kazuo; Niigata, Kunihiro; Fujikura, Takashi; Hashimoto, Shinichi; and Takenaka, Toichi, 4,703,063, Cl. 514-603.000.

Niihara, Toshio: *See*—
Kato, Tsuyoshi; Ojima, Masahiro; and Niihara, Toshio, 4,672,594, Cl. 369-13.000.

Niiho, Masaaki; Itoh, Kiyoshi; Suzuki, Shinichi; Itagaki, Takuo; and Tsuda, Koji, to Asahi Kogaku Kogyo Kabushiki Kaisha. Changeover shutter for light-wave range finder. 4,636,068, 1-13-87, Cl. 356-5.000.

Niikawa, Ryo: *See*—
Ohtaki, Keizaburo; and Niikawa, Ryo, 4,646,915, Cl. 198-345.000.

Niikura, Akio: *See*—
Tanaka, Yasuo; and Niikura, Akio, 4,696,588, Cl. 384-615.000.

Niikura, Kazuo: *See*—
Shinmei, Katsumasa; and Niikura, Kazuo, 4,708,594, Cl. 417-53.000.

Niikura, Masakatsu: *See*—
Otobe, Yutaka; Niikura, Masakatsu; and Wazaki, Yoshio, 4,697,421, Cl. 60-602.000.

Niikura, Masakazu: *See*—
Ouchi, Chiaki; Niikura, Masakazu; and Suenaga, Hiroyoshi, 4,694,985, Cl. 228-235.000.

Niikura, Tatsuo: *See*—
Kasai, Tatsushi; Niikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,689,146, Cl. 210-197.000.
Kasai, Tatsushi; Niikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,710,215, Cl. 62-532.000.

Niikura, Yasuhiro: *See*—
Murasugi, Takashi; Suga, Masaaki; and Niikura, Yasuhiro, 4,640,395, Cl. 192-3.310.

Niimi, Koji. *See*—
Kakubo, Yuji; Niimi, Koji; and Ikegaya, Yuji, 4,706,291, Cl. 381-63.000.

Niimi, Takatsune: *See*—
Kondo, Katsumi; Tsuchiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,681,647, Cl. 156-172.000.
Yamazawa, Yasushi; Kondo, Katsumi; Tsutiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,673,451, Cl. 156-172.000.

Niimoto, Hisashi: *See*—
Nakatomi, Yasuo; Hara, Katsuhiko; Umeda, Fumio; Kono, Toshiaki; and Niimoto, Hisashi, 4,693,898, Cl. 426-19.000.

Niimura, Koichi: *See*—
Kanno, Akihiko; Muto, Shigeaki; Niimura, Koichi; Ando, Takao; Fujii, Takayoshi; Fujii, Masahiko; Furusho, Takao; and Yoshikumi, Chikao, 4,690,920, Cl. 514-201.000.

Niina, Akihiko; Ohira, Tatsuo; and Miyamoto, Shigemi, to Nippon Zeon Co. Ltd. Polynucleotide synthesizing apparatus. 4,671,941, 6-9-87, Cl. 422-131.000.

Niina, Jiro, to Kawasaki Jukogyo Kabushiki Kaisha. Unit for mounting hood of watercraft. 4,644,891, 2-24-87, Cl. 114-201.00R.

Niino, Hideki: *See*—
Yamada, Koji; Hashimoto, Tamotsu; Naruse, Masao; Murayama, Yo; and Niino, Hideki, 4,705,805, Cl. 514-548.000.

Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiraga; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjiro; Ohtsuki, Etsuo; and Isago, Terashi, to Director of National Aerospace Laboratory of Science and Technology Agency, Shun Takeda, The. Rocket combustion chamber cooling wall of composite cooling type and method of manufacturing the same. 4,703,620, 11-3-87, Cl. 60-260.000.

Niino, Yasuo: *See*—
Tsujiuchi, Toshio; and Niino, Yasuo, 4,700,483, Cl. 33-125.00R.

Niinomi, Masahiro: *See*—
Kuwahara, Hideyuki; Kondo, Bunji; Takada, Jun; Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,701,301, Cl. 419-21.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,693,927, Cl. 428-216.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,711,809, Cl. 428-336.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,713,287, Cl. 428-336.000.
Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,636,435, Cl. 428-336.000.
Yanagihara, Kenji; Kimura, Mituo; Niinomi, Masahiro; Nishikawa, Yasuo; and Mukaida, Yoshito, 4,693,799, Cl. 204-165.000.

Niinomi, Naoyuki; and Watanabe, Kunihiko, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 4,649,786, 3-17-87, Cl. 84-1.190.

Niinomi, Tatsuya; and Kikuchi, Hiroshi, to Hitachi, Ltd. Balancer and controlling method thereof. 4,640,663, 2-3-87, Cl. 414-730.000.

Niinuma, Akira, to Alps Electric Co., Ltd. Push button switch with sliding contact member. 4,675,486, 6-23-87, Cl. 200-255.000.

Niinuma, Akira: *See*—
Oba, Hiroki; Aoki, Seiichi; Niinuma, Akira; and Sato, Seiichiro, 4,690,484, Cl. 439-736.000.

Niinuma, Atsuo: *See*—
Shinoda, Tsutae; and Niinuma, Atsuo, 4,638,218, Cl. 315-169.400.

Niinuma, Susumu: *See*—
Aoyagi, Yoshiro; Kimura, Toshiyuki; Niinuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Keiichi; Haeno, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77.100.

Niiranen, Tapani; Savolainen, Erkki; and Kohonen, Raimo, to Enzo-Gutzeit OY. Disc filter. 4,678,574, 7-7-87, Cl. 210-327.000.

Niiro, Yasuhiko: *See*—
Ejiri, Yoshihiro; Nagai, Akira; Nakai, Taichiro; and Niiro, Yasuhiko, 4,708,427, Cl. 350-96.200.
Wakabayashi, Hiroharu; and Niiro, Yasuhiko, 4,710,976, Cl. 455-601.000.

Niisato, Takeshi: *See*—
Kai, Hisao; Ochiai, Kensuke; and Niisato, Takeshi, 4,679,718, Cl. 225-48.000.

Niitsuma, Hiroaki: *See*—
Hayashi, Kazuo; Shoji, Tetsuo; Niitsuma, Hiroaki; Takahashi, Hideaki; and Abe, Hiroyuki, 4,665,984, Cl. 166-250.000.

Niizaki, Nobuya: *See*—
Saitoh, Takashi; Niizaki, Nobuya; Yamamura, Hideho; and Hayashi, Shinichi, 4,710,654, Cl. 307-601.000.

Niizuma, Hiroshi; Miki, Toshiro; Kojima, Shiro; Azuma, Kishiro; Kato, Hiroyuki; Murakami, Yuichi; and Ito, Tsutomu, to Toagosei Chemical Industry Co., Ltd. Process for the production of acrylic acid or methacrylic acid. 4,677,225, 6-30-87, Cl. 562-599.000.

Nijenhuis, Harry, to Hydro Mecanique Research S.A. Silo. 4,708,569, 11-24-87, Cl. 414-332.000.

Nijhuis, Henri G. B. C., and Toebes, Wilhelmus G., to Gebruder Sulzer Aktiengesellschaft. Weft change system with a weaving machine. 4,667,705, 5-26-87, Cl. 139-439.000.

Nijman, Johan M.: *See*—
Hoogendoorn, Thomas M.; de Haas, Maarten A.; and Nijman, Johan M., 4,698,103, Cl. 148-12.00F.

Nijs, Hubert H.: *See*—
May, Bronislav A.; and Nijs, Hubert H., 4,652,403, Cl. 252-526.000.
May, Bronislav H.; Nijs, Hubert H.; and Vandenbulcke, Brigitte M. J., 4,666,623, Cl. 252-102.000.

Nijssen, Wilhelmus P. M.: *See*—
Vollenbroek, Franciscus A.; Dil, Jan G.; Kroon, Henricus J. J.; Spiertz, Elisabeth J.; and Nijssen, Wilhelmus P. M., 4,704,347, Cl. 430-312.000.

Nikaido, Akira, to Citizen Watch Co., Ltd. Compact-sized permanent magnet type stepping motor. 4,636,668, 1-13-87, Cl. 310-49.00R.

Nikaido, Akira, to Citizen Watch Co., Ltd. Linear motor. 4,678,951, 7-7-87, Cl. 310-13.000.

Nikaido, Masataka; and Matsuda, Sakurako, to Matsushita Electric Industrial Co., Ltd. Sound generator for electronic musical instrument. 4,681,007, 7-21-87, Cl. 84-1.100.

Nikaido, Masaya: *See*—
Uchino, Kazuyoshi; and Nikaido, Masaya, 4,700,733, Cl. 137-117.000.

Nikaido, Mitsuhiro: *See*—
Kuwahara, Hajime; Ono, Yutaka; and Nikaido, Mitsuhiro, 4,680,466, Cl. 250-231.0SE.

Nikawa, Yoshio: *See*—
Kikuchi, Makoto; Mori, Shinsaku; Nikawa, Yoshio; and Terakawa, Takashige, 4,690,156, Cl. 128-804.000.

Nike, Inc.: *See*—
Effler, Kenneth T.; and Miner, Douglas H., 4,667,425, Cl. 36-126.000.

Nikex Nehezipari Kulkereskedelmi: *See*—
Egeto, Csaba; Szalay, Zoltan; Dorombosy, Bela; and Krauz, Karoly, 4,668,110, Cl. 384-536.000.

Niki, Akio: *See*—
Tanaka, Hidetake; Niki, Akio; and Kuramochi, Osamu, 4,674,895, Cl. 400-121.000.

Niki, Shoji; Takahashi, Toshiro; and Hirakoso, Yohei, to Takeda Riken Kogyo Kabushikikaisha. Device for measuring average frequencies. 4,680,540, 7-14-87, Cl. 324-78.00R.

Nikitin, Vladimir V.: *See*—
Nenakhov, Sergei S.; Tilles, Robert S.; Savinykh, Vitaly V.; Dyakov, Vladimir A.; and Nikitin, Vladimir V., 4,678,076, Cl. 198-525.000.

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Kon, Toshiharu, 4,681,998, Cl. 219-99.000.
kei Kako Kabushiki Kaisha: *See*—
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Ken Chemicals Co., Ltd.: *See*—
Ukigaya, Tadashi; and Ogawa, Keizaburo, 4,692,337, Cl. 424-469.000.
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Arakawa, Kohei, 4,640,830, Cl. 423-346.000.
Hashimoto, Kazuaki, 4,684,329, Cl. 417-357.000.
Tsutsui, Toshiaki; and Ohki, Hiroshi, 4,652,218, Cl. 417-368.000.
Yamada, Yasuyuki, 4,640,445, Cl. 222-386.500.
ko Co., Ltd.: *See*—
Ishimoto, Zenichi, 4,705,487, Cl. 446-290.000.
Ishimoto, Zenichi, 4,713,499, Cl. 200-16.00D.
Takada, Mitsuo, 4,636,596, Cl. 200-52.00R.
o Kakouzai Co., Ltd.: *See*—
Hattori, Morihisa, 4,640,288, Cl. 128-505.000.
es, Albert: *See*—
Brandt, Hermann; Fischer, Hermann; Dreher, Hermann; Heil, Eduard; Hambrecht, Juergen; Naarmann, Herbert; Echte, Adolf Gausepohl, Hermann; Siebel, Peter; Swoboda, Johann; Schwoebel, Gerd; and Nikles, Albert, 4,696,996, Cl. 528-214.000.
laus, Heinrich: *See*—
Reinhardt, Peter; Nikolaus, Heinrich; and Metzner, Frank, 4,688,380, Cl. 60-420.000.
lichov, Alexander S.: *See*—
Balevski, Angel T.; Nikolov, Ivan D.; Momchilov, Emil N.; Bachvarov, Rumen D.; Ostrovski, Vassil N.; Nikolchov, Alexander S.; Stoyanov, Peyo T.; Petrov, Valentin G.; and Lyubenov, Toshko K., 4,671,342, Cl. 164-458.000.
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Gentry, Kenneth R.; and Nikolich, Michael, 4,634,936, Cl. 315-307.000.
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Zabunova, Orhideya B.; Zvetanov, Hristo B.; Petrova, Lyudmila V.; Ognyanova, Vaska A.; Nikolova, Milka P.; Tanev, Georgi L.; and Ivanova, Nedyalka S., 4,704,468, Cl. 560-43.000.
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Nakamura, Kyuzo; and Ota, Yoshifumi, 4,655,167, Cl. 118-718.000.
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Garlanov, Dimo T.; Dimitrov, Dimiter A.; Beloev, Marin G.; Hlebarov, Vladimir P.; Vangelov, Ivan V.; Nikov, Nikolay Y.; and Savov, Ivan S., 4,691,090, Cl. 219-121.0PC.
k, Andrew J.: *See*—
Niksa, Marilyn J.; Pohto, Gerald R.; Lakatos, Leslie K.; Wheeler, Douglas J.; Niksa, Andrew J.; and Schue, Thomas J., 4,693,946, Cl. 429-27.000.
Fauss, Elvin M., Jr.; and Niksa, Andrew J., 4,657,650, Cl. 204-242.000.
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k, Marilyn J.: *See*—
olomon, Frank; Grun, Charles; Abrahamson, Donald W.; Stewart, James J.; and Niksa, Marilyn J., 4,687,553, Cl. 204-16.000.
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Sukka, Aarre; Tervamaki, Jukka; Nikulin, Heikki; and Vuorinen, Olavi, 4,684,250, Cl. 356-246.000.
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Gerald J., to Minnesota Mining and Manufacturing Company. ging holder for tape cassette. 4,648,514, 3-10-87, Cl. 211-41.000.
Gerald J.: *See*—
hlberg, Carl S.; and Niles, Gerald J., 4,665,456, Cl. 360-132.000.
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Parts Co., Ltd.: *See*—
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atsutani, Kazuji; and Inaba, Shigeru, 4,691,181, Cl. 335-128.000.
akano, Sadao; and Inaba, Shigeru, 4,701,734, Cl. 335-128.000.
Parts Co., Ltd: *See*—
ikeoka, Seiei, 4,695,985, Cl. 367-87.000.
Niles, Raymond W., Jr.: *See*—
Hopkins, Donn A.; and Niles, Raymond W., Jr., 4,654,737, Cl. 360-106.000.
Nilius, Hans-Joachim: *See*—
Hilzinger, Hans-Rainer; Nilius, Hans-Joachim; and Friedrichs, Michael, 4,703,550, Cl. 29-527.600.
Nill, Eberhard, to ITT Industries, Inc. Method of manufacturing and adjusting a color picture reproduction unit. 4,634,922, 1-6-87, Cl. 313-402.000.
Nill, Eberhard, to ITT Industries, Inc. Method of manufacturing and adjusting a color picture tube. 4,659,957, 4-21-87, Cl. 313-402.000.
Nill, Walter. Screening system including a screen cleaning means for and a method of cleaning a screen in a waste water purification plant. 4,642,195, 2-10-87, Cl. 210-798.000.
Nilles, Karl-Heinz: *See*—
Blasius, Ewald; and Nilles, Karl-Heinz, 4,647,440, Cl. 423-181.000.
Nillesen, Antonius H. H. J., to U.S. Philips Corporation. Digital chrominance processor with a phase and frequency controlled digital oscillator independent of the stable oscillator frequency. 4,682,209, 7-21-87, Cl. 358-19.000.
Nillesen, Antonius H. H. J.: *See*—
Moring, Wilhelm; Nillesen, Antonius H. H. J.; and Ruprecht, Jurgen, 4,689,664, Cl. 358-23.000.
Nilsen, Arild. Folding, burglar proof fire escape ladder with separate release stations and safety belts with locking brackets. 4,702,347, 10-27-87, Cl. 182-8.000.
Nilsen, Carl-Otto: *See*—
Gruzman, Boris; and Nilsen, Carl-Otto, 4,639,572, Cl. 219-121.0LG.
Nilsen, Gunnar; Wang, Erik; and Moen, Ingar, to A/S Norsk Elektrisk & Brown Boveri. Power line/transformer switch. 4,649,237, 3-10-87, Cl. 200-15.000.
Nilsen, Kare A. Hairpiece base and method of manufacture and fitting of hairpiece. 4,688,584, 8-25-87, Cl. 132-56.000.
Nilson, Hans-Ove, to AB Volvo. Regulator means for use in heat pipes. 4,693,306, 9-15-87, Cl. 165-104.210.
Nilson, Nils B., to Kenova AB. Method and capsule for storing and mixing the two co-operative basic materials of dental amalgam and method in manufacturing the capsule. 4,664,257, 5-12-87, Cl. 206-219.000.
Nilson, Nils B.: *See*—
Berglund, Bengt G.; Falk, Karl-Erik L.; Magnusson, Dan A.; Nilson, Nils B.; and Nilsson, Ake S., 4,695,272, Cl. 604-84.000.
Nilssen, Ole K. Lighting system. 4,634,932, 1-6-87, Cl. 315-119.000.
Nilssen, Ole K. Protector for series-excited parallel-loaded resonant circuit. 4,638,395, 1-20-87, Cl. 361-93.000.
Nilssen, Ole K. Series-resonant parallel-loaded fluorescent lamp ballast. 4,644,228, 2-17-87, Cl. 315-242.000.
Nilssen, Ole K. Electronic inverter having magnitude-controllable output. 4,644,459, 2-17-87, Cl. 363-133.000.
Nilssen, Ole K. Clock with programmable actuator means. 4,645,942, 2-24-87, Cl. 307-140.000.
Nilssen, Ole K. High-frequency power-limited lighting system. 4,651,059, 3-17-87, Cl. 315-182.000.
Nilssen, Ole K. Electronic ballast with high power factor. 4,652,797, 3-24-87, Cl. 315-209.00R.
Nilssen, Ole K. Electronic ballast with ground-fault protection. 4,663,571, 5-5-87, Cl. 315-244.000.
Nilssen, Ole K. Protection circuit for fluorescent lamp ballasts. 4,667,131, 5-19-87, Cl. 315-275.000.
Nilssen, Ole K. Power-limited lighting system. 4,667,133, 5-19-87, Cl. 315-312.000.
Nilssen, Ole K. Electrically controllable magnetron power supply. 4,672,159, 6-9-87, Cl. 219-10.55B.
Nilssen, Ole K. High-reliability high-efficiency electronic ballast. 4,675,576, 6-23-87, Cl. 315-242.000.
Nilssen, Ole K. Inverter circuits. 4,677,345, 6-30-87, Cl. 315-209.00R.
Nilssen, Ole K. Inverter-type microwave oven power supply. 4,680,506, 7-14-87, Cl. 315-102.000.
Nilssen, Ole K. Track lighting system with plug-in adapters. 4,688,154, 8-18-87, Cl. 362-147.000.
Nilssen, Ole K. Parallel-resonant bridge-inverter fluorescent lamp ballast. 4,692,667, 9-8-87, Cl. 315-209.00R.
Nilssen, Ole K. Battery charger with adjustable charging current. 4,692,681, 9-8-87, Cl. 320-2.000.
Nilssen, Ole K. Electronic power supply system. 4,698,553, 10-6-87, Cl. 315-200.00R.
Nilssen, Ole K. Dual-mode inverter power supply. 4,700,287, 10-13-87, Cl. 363-132.000.
Nilssen, Ole K. Programmable electronic plug-in timer. 4,712,019, 12-8-87, Cl. 307-141.000.
Nilsson, Ake S.: *See*—
Berglund, Bengt G.; Falk, Karl-Erik L.; Magnusson, Dan A.; Nilson, Nils B.; and Nilsson, Ake S., 4,695,272, Cl. 604-84.000.
Nilsson, Ake W.: *See*—
Larsson, Lars-Ake L.; Nilsson, Ake W.; Johannson, Bo Ingemar W.; and Naucler, Lars Olof V., 4,708,714, Cl. 604-5.000.
Nilsson, Alf B., to AB Electrolux. Arrangement for controlling an A.C. voltage. 4,714,870, 12-22-87, Cl. 323-258.000.
Nilsson, Ben A.; and Shepherd, Roger D., to International Business Machines Corporation. Synchronizing electrostatic copy formation. 4,711,552, 12-8-87, Cl. 355-3.00R.
Nilsson, Bengt, to Kamyr AB. Apparatus for producing mechanical pulp with a refiner having its drive shaft connected to a steam turbine output shaft. 4,692,214, 9-8-87, Cl. 162-261.000.

Nilsson, Bengt H., to Kamyr AB. Method and apparatus for producing mechanical pulp with a steam turbine driven refiner. 4,668,341, 5-26-87, Cl. 162-23.000.
Nilsson, Bengt H., to Kamyr AB. Method for regulating the pressure of blow-through discharge steam from a reboiler of process steam produced during production of mechanical pulp. 4,710,268, 12-1-87, Cl. 162-23.000.
Nilsson, Berndt R. Arrangement in Venetian blinds. 4,637,445, 1-20-87, Cl. 160-178.00C.
Nilsson, Berndt R. Machine for the production of venetian blinds. 4,665,599, 5-19-87, Cl. 29-24.500.
Nilsson, Bjarne. Rotatable disc filter. 4,634,529, 1-6-87, Cl. 210-331.000.
Nilsson, Bjarne. Disc filter element for a rotatable disc filter. 4,686,040, 8-11-87, Cl. 210-331.000.
Nilsson, Bo; and Severinsson, Lars M., to SAB Nife AB. Rail vehicle slack adjuster. 4,635,762, 1-13-87, Cl. 188-203.000.
Nilsson, Carl O. L. Safety device in a repeating rifle. 4,672,762, 6-16-87, Cl. 42-70.010.
Nilsson, Claes T.: *See*—
Jakobsen, Kjell M.; and Nilsson, Claes T., 4,701,121, Cl. 425-526.000.
Nilsson, Einar W. Straightening machines and methods. 4,711,112, 12-8-87, Cl. 72-98.000.
Nilsson, Eric: *See*—
Alklind, Lars E.; and Nilsson, Eric, 4,697,290, Cl. 5-61.000.
Nilsson, Goran A., to Electrolux Motor AB. Device in clearing saws 4,658,506, 4-21-87, Cl. 30-371.000.
Nilsson, Ingvar, to Svecia Antiqua SA. Production of paper with decorative, non-rectilinear edges. 4,669,644, 6-2-87, Cl. 225-3.000.
Nilsson, Kjell: *See*—
Mosbach, Klaus; and Nilsson, Kjell, 4,647,536, Cl. 435-177.000.
Nilsson, Lars. Method for the production of a veneer. 4,657,789, 4-14-87, Cl. 427-372.200.
Nilsson, Lennart, to Tetra Pak International AB. Method and apparatus for the application of film wrappings. 4,662,148, 5-5-87. Cl. 53-399.000.
Nilsson, Nils A.: *See*—
Hernestam, Sven E. H.; Nilsson, Nils A.; and Willard, Lars-Olof, 4,636,382, Cl. 424-54.000.
Nilsson, Nils O.: *See*—
Thorsell, Leif U. F.; and Nilsson, Nils O., 4,670,098, Cl. 162-29.000.
Nilsson, Olof E., to Telefonaktiebolaget LM Ericsson. Method and apparatus for the connection of a closed ring through a telephone exchange. 4,715,032, 12-22-87, Cl. 370-86.000.
Nilsson, Stefan: *See*—
Mellander, Hugo; Nilsson, Stefan; Warner, Charles Y.; Wille, Milton G.; and Koch, Magnus, 4,691,556, Cl. 73-12.000.
Nilsson, Sture. Heating stove and method for the combustion of fuels in heating stoves. 4,694,817, 9-22-87, Cl. 126-76.000.
Nilsson, Sven E. L.: *See*—
Lilja, Jan E.; and Nilsson, Sven E. L., 4,654,197, Cl. 422-56.000.
Nilsson, Sven M. Heat exchanger. 4,633,936, 1-6-87, Cl. 165-8.000.
Nilsson, Tatiana. Instrument for cutting tissues in surgery. 4,700,702, 10-20-87, Cl. 128-305.000.
Nilsson, Torsten; and Jakobsen, Kjell M., to PLM AB. Method for producing a thermoplastic container having a ring-shaped reinforcing zone at its bottom. 4,704,243, 11-3-87, Cl. 264-521.000.
Nilsson, William B.: *See*—
Spinelli, John; Stout, Virginia F.; and Nilsson, William B., 4,692,280, Cl. 260-420.000.
Nima Technology Limited: *See*—
Grunfeld, Frank A., 4,646,678, Cl. 118-667.000.
Nimberger, Spencer M., to General Screw Products Company. Valve having hard and soft seats. 4,655,251, 4-7-87, Cl. 137-516.290.
Nimberger, Spencer M., to General Screw Products Company. Pressure signal instrumentation having removable flanges and mounting method therefor. 4,672,728, 6-16-87, Cl. 29-157.60R.
Nimbus, Inc.: *See*—
Moise, John C., 4,704,121, Cl. 623-3.000.
Nimbus Water Systems, Inc.: *See*—
Bray, Donald T., 4,711,723, Cl. 210-652.000.
Bray, Donald T., 4,713,175, Cl. 210-259.000.
Nimco Corporation: *See*—
Bachner, George, 4,714,164, Cl. 206-518.000.
Nimerick, Kenneth H., to Dowell Schlumberger Incorporated. Reducing paraffin deposits on paraffin contaminated surfaces. 4,669,544, 6-2-87, Cl. 166-300.000.
Nimke, Helmut E., to Brooklyn Union Gas Company, The. Grooved connector. 4,657,287, 4-14-87, Cl. 285-373.000.
Nimlok Company: *See*—
Perutz, Simon G. A.; and Perutz, Gerald E. A., 4,700,498, Cl. 40-603.000.
Nimlok Limited: *See*—
Nimmo, Neil D.; Kenny, Michael; and Willis, David, 4,637,178, Cl. 52-36.000.
Nimmo, John R.: *See*—
Rubin, Jacob; Hammermeister, Dale P.; and Nimmo, John R., 4,679,422, Cl. 73-38.000.
Nimmo, Neil D.; Kenny, Michael; and Willis, David, to Nimlok Limited. Screen assembly and clip therefor. 4,637,178, 1-20-87, Cl. 52-36.000.
Nimmo, Philip E.: *See*—
Muelling, Duane D.; Willett, Ronald J.; and Nimmo, Philip E., 4,645,320, Cl. 354-81.000.
Nimmons, Kenneth W., to Schutt Manufacturing Co., Inc. Tension mounting for face guard. 4,633,531, 1-6-87, Cl. 2-424.000.
Nimry, Tayseer S., to Amoco Corporation. AMS-1B crystalline borosilicate molecular sieve-based catalyst compositions and process for xylene isomerization. 4,654,456, 3-31-87, Cl. 585-477.000.
Nimry, Tayseer S.; and De Simone, Richard E., to Amoco Corporation. AMS-1B crystalline borosilicate molecular sieve-based catalyst compositions and process for toluene alkylation. 4,673,767, 6-16-87, Cl. 585-467.000.
Nimura, Eiji: *See*—
Morimoto, Teruyo; Sano, Yumiko; Nimura, Eiji; Tomii, Yuji; and Maeda, Tatsuo, 4,701,389, Cl. 430-110.000.
Nimura, Hitoshi: *See*—
Sakura, Yasuhiro; Nimura, Hitoshi; and Nakayama, Satoshi, 4,638,332, Cl. 346-76.0PH.
Sakura, Yasuhiro; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,639,743, Cl. 346-76.0PH.
Sakura, Yasuhiro; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,641,147, Cl. 346-76.0PH.
Sakura, Yasuhiro; Haraga, Koichi; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,697,938, Cl. 400-120.000.
Nimura, Noriyuki: *See*—
Ishida, Yasuo; Fujiwara, Michihiko; Kinoshita, Toshio; and Nimura, Noriyuki, 4,670,403, Cl. 436-90.000.
Nimura, Takao: *See*—
Fujiwhara, Mitsuto; Nimura, Takao; Numata, Yasumasa; and Matsubara, Yasuko, 4,690,888, Cl. 430-549.000.
Ninane, Leon; and Breton, Claude, to Solvay & Cie. (Societe Anonyme). Process for the production of a water-insoluble nitrogenous organic base, starting from an aqueous solution of an alkali metal bicarbonate and the hydrochloride of the said base and process for the manufacture of sodium bicarbonate. 4,677,229, 6-30-87, Cl. 564-437.000.
Nineberg, Edward; and Menaker, Mark, to ML Corporation. Dump chute assembly. 4,694,947, 9-22-87, Cl. 193-34.000.
Ning, Tak H.: *See*—
Lu, Nicky C.; Ning, Tak H.; and Terman, Lewis M., 4,688,063, Cl. 357-23.600.
Ninger, Fred C.; and Liao, Weichi, to Warner-Lambert Company. Antibiotic clathrates and pharmaceutical compositions thereof. 4,663,316, 5-5-87, Cl. 514-99.000.
Ninkaplast GmbH: *See*—
Twellmann, Guenter, 4,693,188, Cl. 108-139.000.
Ninnemann, Peter; and Wollscheid, Dieter, to Siemens Aktiengesellschaft. Memory-programmable controller. 4,648,068, 3-3-87, Cl. 364-900.000.
Ninohira, Akira: *See*—
Uno, Akira; Ninohira, Akira; and Noda, Touru, 4,650,747, Cl. 430-536.000.
Ninomiya, Hidetaka: *See*—
Masuda, Kasaku; Sato, Ryosuke; Ishii, Fumio; Kimura, Kazuhiko; and Ninomiya, Hidetaka, 4,692,529, Cl. 546-141.000.
Ninomiya, Hiroshi: *See*—
Henmi, Yoshiyasu; Terada, Takashi; Suzuki, Masaru; and Ninomiya, Hiroshi, 4,701,327, Cl. 424-455.000.
Nakama, Katsuhiko; Ninomiya, Hiroshi; Michishige, Toru; and Itsuki, Fumiaki, 4,709,976, Cl. 439-350.000.
Ninomiya, Hisakazu; Tomita, Hiroyuki; Mochizuki, Jyun; and Nakagawa, Kazuyuki, to Hitachi, Ltd.; and Hitachi Keiyo Engineering Co., Ltd. Load drive apparatus. 4,656,401, 4-7-87, Cl. 318-329.000.
Ninomiya, Ichiro; Kizu, Soujiro; and Sashoh, Hidehiko, to Sony Corporation. Editing data converting apparatus. 4,709,277, 11-24-87, Cl. 360-14.300.
Ninomiya, Ichiro: *See*—
Goto, Hideaki; and Ninomiya, Ichiro, 4,635,144, Cl. 360-72.200.
Ninomiya, Ken: *See*—
Okudaira, Sadayuki; Nishimatsu, Shigeru; Suzuki, Keizo; Ninomiya, Ken; and Hamazaki, Ryoji, 4,705,595, Cl. 156-643.000.
Tokiguchi, Katsumi; Koike, Hidemi; Sakudo, Noriyuki; Okada, Osami; Ninomiya, Ken; and Ozasa, Susumu, 4,658,143, Cl. 250-423.00R.
Ninomiya, Kunihiro; Nitta, Issei; Tobe, Akihiro; Egawa, Mitsuo; and Kikumoto, Ryoji, to Mitsubishi Chemical Industries Limited. Thieno[2,3-d]pyrimidine derivatives and salts thereof. 4,695,568, 9-22-87, Cl. 514-258.000.
Ninomiya, Masakazu, to Nippondenso Co., Ltd. Air-fuel ratio control system. 4,640,254, 2-3-87, Cl. 123-492.000.
Ninomiya, Masakazu: *See*—
Kobayashi, Nobuyuki; Ito, Toshimitsu; Akatsuka, Takao; and Ninomiya, Masakazu, 4,651,700, Cl. 123-489.000.
Ninomiya, Masao; Takashima, Susumu; Fukushima, Kazumasa; Yuyama, Masami; and Kurosawa, Kazuyuki, to Casio Computer Co., Ltd. Speech recognition apparatus. 4,712,243, 12-8-87, Cl. 381-43.000.
Ninomiya, Morimasa: *See*—
Sakurai, Masao; Hamada, Yousuke; Ninomiya, Morimasa; Takechi, Toshihide; Nakagawa, Kunihiro; and Fujii, Takashi, 4,633,735, Cl. 74-675.000.
Ninomiya, Susumu: *See*—
Arima, Takahisa; Ninomiya, Susumu; Horikawa, Yuji; and Aoki, Tadasi, 4,708,372, Cl. 285-150.000.
Ninomiya, Takanori; Nakagawa, Yasuo; and Saito, Keiya, to Hitachi, Ltd. Method and apparatus for detecting defects of printed circuit patterns. 4,654,583, 3-31-87, Cl. 324-73.0PC.
Ninomiya, Takanori: *See*—
Hiroi, Takashi; Ninomiya, Takanori; and Nakagawa, Yasuo, 4,641,527, Cl. 73-582.000.

omiya, Takeshi; and Ozaki, Risuke, to O. Key Printed Wiring Co., td. Printed circuit board and method of manufacturing same. ,663,208, 5-5-87, Cl. 428-138.000.

omiya, Takeyoshi: *See*—
Tsutsumi, Kazuhiko; Ohashi, Wataru; Ninomiya, Takeyoshi; and Temma, Masami, 4,660,617, Cl. 164-451.000.

omiya, Yasuo; Komamura, Chiaki; and Musa, Yoshikazu, to Nitto Electric Industrial Co., Ltd. Process for producing a microcapsule ontaining a liquid active material. 4,690,786, 9-1-87, Cl. 264-4.600.

omiya, Yoshinobu; Somezawa, Masashi; and Oiyama, Kiyokazu, to ony Corporation. Magnetic recording medium. 4,634,633, 1-6-87, l. 428-425.900.

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omiya, Yuichi; Ohtsuka, Yoshimichi; Izumi, Yoshinori; and Goushi, ei'ichi, to Nippon Hoso Kyokai. Bandwidth compressed transmis- ion system. 4,692,801, 9-8-87, Cl. 358-133.000.

omiya, Yuichi: *See*—
Tanaka, Yutaka; Nishizawa, Taiji; Ninomiya, Yuichi; Ohmura, Toshiro; Kurita, Taiichiro; and Ohtsuka, Yoshimichi, 4,663,665, Cl. 358-140.000.

oyu, Yutaka: *See*—
Mizuno, Yoshikazu; Ninoyu, Yutaka; Suzuki, Motoyoshi; and Ikuma, Akira, 4,658,150, Cl. 307-10.00R.

ttendo Co., Ltd.: *See*—
Shirai, Ichiro, 4,687,200, Cl. 273-148.00B.

, Satoru; Hamashima, Toyoji; and Sato, Shinobu, to Yaskawa Elec- ric Mfg. Co., Ltd. Method of welding robot control which controls he three basic axes of a robot to provide a repetition of a weaving attern along a robot locus. 4,677,276, 6-30-87, Cl. 219-125.120.

oti, Paolo; and Priori, Franco, to Azionaria Costruzioni Machine Automatiche A.C.M.A. S.p.A. Apparatus for arranging containers orizontally and in sequence. 4,651,864, 3-24-87, Cl. 198-397.000.

oti, Paolo: *See*—
Aiuola, Franco; and Nipoti, Paolo, 4,676,286, Cl. 141-145.000.

pp, Hansjorg: *See*—
Blaas, Karl; and Nipp, Hansjorg, 4,711,308, Cl. 173-162.00R.

ppe, Burkhard: *See*—
Brinkmeyer, Hermann; Hubler, Gerhard; Perrey, Hermann; Nippe, Burkhard; and Kober, Heinrich, 4,687,709, Cl. 428-425.900.
Gerum, Johannes; Nippe, Burkhard; and Meckel, Walter, 4,677,030, Cl. 428-425.900.

ppert, Georg; Hahn, Berthold; and Gobrecht, Jens, to Brown, Boveri & Cie AG. Semiconductor power module. 4,710,795, 12-1-87, Cl. 57-65.000.

ppo Communication Industrial Co., Ltd.: *See*—
Akiyama, Tadahiko; and Otsuka, Yoshio, 4,680,785, Cl. 379-57.000.

ppon A B S, Ltd.: *See*—
Arikawa, Tetsuro, 4,637,664, Cl. 303-111.000.

ppon Acchakutanshi Seizo Kabushiki Kaisha: *See*—
Matsui, Minoru, 4,646,404, Cl. 29-33.00M.
Okazaki, Takashi; Matsu'ura, Yukio; and Saijo, Yoshihiko, 4,638,549, Cl. 29-564.400.

ppon Air Brake Co., Ltd.: *See*—
Akamatsu, Osamu, 4,708,158, Cl. 137-315.000.
Hata, Yasuhisa; Hatimaki, Takeshi; and Ogura, Satoshi, 4,696,626, Cl. 417-312.000.
Ikeda, Mitsuhiro; and Nakao, Yasuo, 4,679,863, Cl. 303-3.000.
Imanaka, Asaji, 4,639,047, Cl. 303-15.000.
Imanaka, Asaji, 4,651,071, Cl. 318-371.000.
Imanaka, Asaji, 4,685,750, Cl. 303-15.000.
Ishiwata, Ichiro, 4,671,065, Cl. 60-533.000.
Kamemoto, Katsuaki; and Morimoto, Hideyuki, 4,658,585, Cl. 60-592.000.
Kanda, Osamu, 4,708,402, Cl. 303-20.000.
Kojima, Katsumi; and Ichishita, Yuzo, 4,655,801, Cl. 55-218.000.
Kojima, Katsumi, 4,673,419, Cl. 55-163.000.
Kubota, Hitoshi; and Nakagawa, Keiji, 4,658,942, Cl. 192-13.00A.
Morimoto, Hideyuki, 4,653,382, Cl. 91-369.00A.
Morimoto, Hideyuki, 4,667,567, Cl. 91-376.00R.
Morimoto, Hideyuki, 4,667,568, Cl. 91-376.00R.
Sugiyama, Kiyoaki, 4,708,695, Cl. 474-101.000.
Tamamori, Hideo; and Tsunazawa, Mitsugu, 4,655,510, Cl. 303-40.000.
Tamamori, Hideo; and Ikeda, Mitsuhiro, 4,678,241, Cl. 303-33.000.
Tanaka, Ryuichi; and Ishii, Akira, 4,709,968, Cl. 303-6.00C.
Washizu, Shoichi; Morijiri, Takeshi; Kogure, Kazuo; and Arimitsu, Satoshi, 4,679,668, Cl. 188-353.000.

ippon Antenna Kabushiki Kaisha: *See*—
Takizawa, Akio; Suga, Mitsuhiro; and Saito, Syozo, 4,665,406, Cl. 343-903.000.

ippon Athletic Industry Company: *See*—
Yoneyama, Takeshi, 4,633,888, Cl. 128-784.000.

ippon Avionics Co., Ltd.: *See*—
Nara, Toshio; Hobo, Sumiya; Kashiwada, Masao; Totsuka, Motoyuki; Hoshiai, Takao; Umetani, Katsutoshi; Akamatsu, Keisuke; Inada, Tomohide; and Takayama, Hisao, 4,639,220, Cl. 433-69.000.

ippon Ball Valve Co., Ltd.: *See*—
Ikematsu, Morio; and Hiranuma, Hiromichi, 4,641,681, Cl. 137-315.000.
Ikematsu, Morio; Wada, Tohru; Nakanishi, Tohru; and Ishigami, Nobuo, 4,658,978, Cl. 251-315.000.

Nippon Cable System Inc.: *See*—
Kobayashi, Tetuo, 4,662,236, Cl. 74-501.00R.
Suzuki, Kazuhiro, 4,651,583, Cl. 74-96.000.

Nippon Cable Systems Inc.: *See*—
Suzuki, Kazuhiro, 4,669,329, Cl. 74-473.00R.

Nippon Carbide Kogyo Kabushiki Kaisha: *See*—
Koshi, Minekazu; Fukao, Osamu; Saito, Taisuke; Sakan, Tatsuo; and Nakahara, Seiichi, 4,647,697, Cl. 564-249.000.
Yoshida, Tatsuro; Shimasaki, Hidematsu; Minamizono, Takahisa; and Ochi, Katsura, 4,670,490, Cl. 524-115.000.

Nippon Carbon Co., Ltd.: *See*—
Okamura, Kiyohito; Sato, Mitsuhiko; and Hasegawa, Yoshio, 4,650,773, Cl. 501-35.000.

Nippon Chem-Con Corp.: *See*—
Iwanaka, Masaya; and Kajiwara, Seiji, 4,637,489, Cl. 181-160.000.

Nippon Chemi-Con Corporation: *See*—
Ito, Takato; Shimada, Akihiro; and Uchiyama, Kimio, 4,656,560, Cl. 361-433.000.
Shinozaki, Fumihiko; and Yokoyama, Yutaka, 4,664,830, Cl. 252-62.200.
Shinozaki, Fumihiko; and Yokoyama, Yutaka, 4,670,175, Cl. 252-62.200.
Shinozaki, Fumihiko; and Yokoyama, Yutaka, 4,708,811, Cl. 252-62.200.
Shinozaki, Fumihiko; and Yokoyama, Yutaka, 4,710,310, Cl. 252-62.200.

Nippon Chemical Industrial Co., Ltd.: *See*—
Kariya, Akinori; Nabekawa, Shukichi; Hara, Yoshifusa; and Taguchi, Junji, 4,694,095, Cl. 558-186.000.

Nippon Chemicals Co., Ltd.: *See*—
Yabe, Yuta; Watanabe, Takamichi; and Suzuki, Hisayuki, 4,670,586, Cl. 562-466.000.

Nippon Chemiphar Co., Ltd.: *See*—
Masaki, Mituo; Shinozaki, Haruhiko; Satoh, Masaru; Moritoh, Naoya; Hashimoto, Koichi; and Kamishiro, Toshiro, 4,644,063, Cl. 546-209.000.
Shimizu, Kimihiro; Nakahara, Tsuguji; Kinoshita, Taketoshi; Takatsuka, Jun; and Igarashi, Michiko, 4,640,835, Cl. 424-94.000.

Nippon Coinco Co., Ltd.: *See*—
Kobayashi, Osamu; Akagawa, Masaki; Tanaka, Masanori; Ishii, Jun; and Yamagishi, Ryoji, 4,706,202, Cl. 364-479.000.

Nippon Coinco Kabushiki Kaisha: *See*—
Kobayashi, Osamu; Akagawa, Masaki; and Hayashi, Hiroshi, 4,678,072, Cl. 194-206.000.

Nippon Colin Co., Ltd.: *See*—
Edgar, Reuben W., Jr.; Gilstad, Dennis W.; and Branstetter, Ronald L., 4,714,080, Cl. 128-633.000.
Warnagiris, Thomas J.; and McGinnis, William H., 4,697,166, Cl. 340-310.00R.

Nippon Columbia Co. Ltd.: *See*—
Yoshimoto, Shin-ichi; Ando, Reigo; Shirai, Takeshi; and Nomura, Hiroshi, 4,674,077, Cl. 369-37.000.

Nippon Dacro Shamrock Co., Ltd.: *See*—
Ayukawa, Nobuhiro; and Konishi, Yasuhiko, 4,675,054, Cl. 148-6.200.
Ayukawa, Nobuhiro; and Konishi, Yasuhiko, 4,678,518, Cl. 148-6.200.

Nippon Denso Co., Ltd.: *See*—
Araki, Masatada; Kuroyama, Yutaka; Takeuchi, Yukihisa; Takagi, Makoto; and Imura, Toru, 4,713,871, Cl. 29-421.00E.

Nippon Denso Kabushiki Kaisha: *See*—
Sato, Hiroki; Sanada, Yukitomo; Yokoya, Yuji; Masaki, Kazuo; Nakagawa, Kiyohara; and Murata, Syuuji, 4,681,143, Cl. 137-625.370.

Nippon Dyeing Machine Mfg. Co., Ltd.: *See*—
Kito, Kiyoharu, 4,644,765, Cl. 68-62.000.

Nippon Electric Co., Ltd.: *See*—
Akahori, Masaaki; and Watanabe, Hiroshi, 4,668,949, Cl. 340-825.470.
Araseki, Takashi; and Ochiai, Kazuo, 4,670,903, Cl. 379-411.000.
Eguchi, Hirotugu, 4,635,088, Cl. 357-41.000.
Fujita, Tsuneo, 4,644,322, Cl. 340-347.0AD.
Hikichi, Hiroshi, 4,689,618, Cl. 340-802.000.
Iwashita, Masao; and Tenma, Tsutomu, 4,674,034, Cl. 364-200.000.
Kurogi, Yukinori; Endo, Nobuhiro; and Tanno, Kohetsu, 4,637,127, Cl. 29-576.00E.
Saito, Masato, 4,700,291, Cl. 364-200.000.
Sato, Yukio; and Ichikawa, Yoshio, 4,704,608, Cl. 340-825.440.
Suzuki, Takeshi, 4,710,136, Cl. 439-374.000.
Terada, Kazuo; Kurosawa, Susumu; and Suzuki, Shunichi, 4,706,107, Cl. 357-23.500.
Yamano, Kozo, 4,652,991, Cl. 364-200.000.
Yamauchi, Fumio; Tohara, Tsutomu; Nakano, Shigeo; and Emoto, Shigeo, 4,690,960, Cl. 523-442.000.
Yano, Minoru, 4,651,244, Cl. 360-105.000.

Nippon Electric Glass Company, Limited: *See*—
Yamanaka, Toshio; and Yamaguchi, Fumio, 4,710,479, Cl. 501-15.000.

Nippon Engelhard Ltd.: *See*—
Ito, Takashi; Matsuzawa, Shigemitsu; and Kato, Katsuaki, 4,716,087, Cl. 429-40.000.

Nippon Ester Co., Ltd.: *See*—
Tsujimoto, Keizo; Katagiri, Takashi; Ichihashi, Eiji; and Otsubo, Hitoshi, 4,712,366, Cl. 57-245.000.

Nippon Filcon Co., Ltd.: *See*—
Tsuneo, Ishino, 4,640,741, Cl. 162-202.000.

Nippon Fine Chemical Co., Ltd.: *See*—
Nanba, Yukihiro; and Sakakibara, Toshiyuki, 4,690,784, Cl. 260-403.000.

Nippon Flute, Co.: *See*—
Adachi, Hideo, 4,693,300, Cl. 165-1.000.

Nippon Foil Manufacturing Co., Ltd.: *See*—
Kitamura, Hironori; and Noma, Kanji, 4,680,250, Cl. 430-302.000.
Yokota, Yuzo; Noma, Kanji; Kawase, Kiyotaka; Kitamura, Hironori; and Kamigaito, Masayuki, 4,680,322, Cl. 523-416.000.

Nippon Gakki Seizo Kabushiki Kaisha: *See*—
Bellini, Mario, 4,635,521, Cl. 84-177.000.
Bellini, Mario, 4,674,385, Cl. 84-177.000.
Fujimori, Junichi; and Sugiyama, Jun, 4,633,749, Cl. 84-1.010.
Hamanaga, Shinji, 4,696,454, Cl. 251-321.000.
Hoshi, Toshiharu, 4,677,031, Cl. 428-610.000.
Hoshi, Toshiharu, 4,707,633, Cl. 313-402.000.
Hotta, Tadahiko, 4,710,265, Cl. 437-29.000.
Hyakutake, Seiichi, 4,669,349, Cl. 84-1.140.
Ichiki, Tetsuji, 4,696,214, Cl. 84-1.010.
Iijima, Kenzaburo; and Hayashi, Yoshinori, 4,715,904, Cl. 148-102.000.
Iijima, Kenzaburou; and Hayashi, Yoshinori, 4,683,013, Cl. 148-102.000.
Ito, Makoto; Mori, Terumi; and Takahashi, Hiroyoshi, 4,586,879, Cl. 84-440.000.
Izuta, Tadao, 4,674,468, Cl. 124-23.00R.
Izuta, Tadao, 4,702,067, Cl. 57-243.000.
Kakubo, Yuji; Niimi, Koji; and Ikegaya, Yuji, 4,706,291, Cl. 381-63.000.
Kamoshita, Yasuhiko; Tamaru, Takuya; Ogusu, Mikio; and Urata, Kazuo, 4,679,182, Cl. 369-77.200.
Kamoshita, Yasuhiko, 4,686,665, Cl. 369-77.200.
Kanazawa, Kyoetsu; and Ono, Mitsuo, 4,708,047, Cl. 84-385.00P.
Katoh, Mitsumi, 4,701,956, Cl. 381-61.000.
Kawasaki, Kenzo, 4,685,372, Cl. 84-392.000.
Koike, Tatsuhiro; and Masubuchi, Takamichi, 4,633,752, Cl. 84-1.030.
Komatsu, Hirotake, 4,698,797, Cl. 369-116.000.
Koyamato, Hisakazu, 4,679,479, Cl. 84-1.040.
Kozuki, Koichi, 4,708,046, Cl. 84-1.030.
Kurahashi, Kazuo; and Onodera, Nobutoshi, 4,666,795, Cl. 428-660.000.
Kurakake, Yasushi, 4,704,933, Cl. 84-1.030.
Kurokawa, Ikuji, 4,650,626, Cl. 264-278.000.
Kurosaki, Makoto, 4,688,463, Cl. 84-421.000.
Mishima, Junichi, 4,704,932, Cl. 84-1.030.
Mitsumi, Katoh, 4,635,520, Cl. 84-1.260.
Muroi, Kunimasa, 4,697,811, Cl. 273-73.00C.
Nagai, Yohei; and Isozaki, Yoshimasa, 4,704,931, Cl. 84-1.010.
Nagamoto, Itsushi; Nakanishi, Tatsuo; and Tajima, Ryohei, 4,714,577, Cl. 264-46.600.
Nakamura, Akira, 4,639,283, Cl. 156-89.000.
Narusawa, Sadayuki; and Tomisawa, Norio, 4,646,303, Cl. 371-38.000.
Narusawa, Sadayuki; and Tomisawa, Norio, 4,707,805, Cl. 364-900.000.
Niinomi, Naoyuki; and Watanabe, Kunihiko, 4,649,786, Cl. 84-1.190.
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,635,048, Cl. 340-703.000.
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,660,070, Cl. 358-11.000.
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,684,942, Cl. 340-703.000.
Nishimoto, Tetsuo, 4,644,839, Cl. 84-1.010.
Nishimoto, Tetsuo, 4,655,115, Cl. 84-1.190.
Nishizawa, Jun-ichi; Mochida, Yasunori; Nonaka, Terumoto; and Yoshida, Takashi, 4,700,213, Cl. 357-42.000.
Oguri, Shigenori; and Iizuka, Akira, 4,699,039, Cl. 84-1.030.
Oguri, Shigenori, 4,706,537, Cl. 84-1.030.
Oguri, Shigenori, 4,713,996, Cl. 84-1.030.
Ogusu, Mikio; Urata, Kazuo; Tamaru, Takuya; and Kamoshita, Yasuhiko, 4,646,285, Cl. 369-291.000.
Ogusu, Mikio, 4,669,078, Cl. 369-291.000.
Ohsumi, Hisayoshi, 4,637,954, Cl. 428-342.000.
Okamoto, Eisaku, 4,703,681, Cl. 84-478.000.
Okamoto, Shimaji, 4,641,564, Cl. 84-1.220.
Oya, Akiyoshi, 4,643,066, Cl. 84-1.010.
Sakai, Toshiaki, 4,673,515, Cl. 252-12.000.
Sawada, Ichiro, 4,693,159, Cl. 84-186.00R.
Sawada, Shuichi; and Murase, Yoshihiko, 4,649,791, Cl. 84-402.000.
Sugiyama, Jun; Suzuki, Akira; Terada, Kosei; Oguri, Shigenori; and Ishii, Shigeki, 4,672,876, Cl. 84-1.030.
Sugiyama, Jun; Hagino, Kiyoshi; and Usui, Akira, 4,694,293, Cl. 340-825.680.
Sugouchi, Akira, 4,693,230, Cl. 124-88.000.
Suzuki, Hideo, 4,646,612, Cl. 84-1.220.
Suzuki, Hideo, 4,672,875, Cl. 84-1.010.
Suzuki, Hideo, 4,679,480, Cl. 84-1.220.
Suzuki, Satoshi, 4,674,383, Cl. 84-1.030.
Suzuki, Shigeo, 4,646,614, Cl. 84-403.000.
Tachida, Hiroki; Sato, Takane; and Sato, Shigeaki, 4,641,565, Cl. 84-431.000.
Takahashi, Horoyoshi, 4,633,753, Cl. 84-220.000.
Takahashi, Toshiro; Tokushima, Tadao; Suzuki, Yoshifumi; and Wakui, Yukio, 4,681,669, Cl. 204-35.100.
Takanashi, Hiroyoshi, 4,697,259, Cl. 369-75.200.
Takeda, Fumiteru; Hirano, Katsuhiko; and Inagaki, Yoshihiro, 4,711,148, Cl. 84-1.010.
Tamaru, Takuya; and Ogusu, Mikio, 4,694,448, Cl. 369-291.000.
Terup, Hiyoshi; Koutaro, Mizuno; and Shigeru, Yamada, 4,646,609, Cl. 84-1.010.
Tomisawa, Norio, 4,641,326, Cl. 375-108.000.
Tomisawa, Norio, 4,682,317, Cl. 369-59.000.
Tomisawa, Norio; Kamiya, Shingo; and Aoshima, Shinji, 4,694,441, Cl. 369-32.000.
Wachi, Masatada; and Shibukawa, Takeo, 4,703,680, Cl. 84-1.260.
Wadatsu, Keiji, 4,649,789, Cl. 84-298.000.
Watanabe, Keisuke; and Iwamoto, Toshiyuki, 4,653,378, Cl. 84-423.00R.
Watanabe, Keisuke; and Iwamoto, Toshiyuki, 4,668,843, Cl. 200-5.00A.
Yamaoka, Shigemitsu, 4,686,520, Cl. 340-703.000.
Yamazaki, Shohei, 4,672,597, Cl. 369-59.000.
Yokoyama, Kenji, 4,651,106, Cl. 329-50.000.
Yokoyama, Kenji, 4,653,096, Cl. 381-17.000.
Yorihisa, Yamaguchi, 4,674,382, Cl. 84-1.010.
Yoshida, Kiyoshi, 4,706,538, Cl. 84-1.030.
Yoshikawa, Yoshimasa, 4,656,913, Cl. 84-177.000.

Nippon Gear Co., Ltd.: *See*—
Ogawa, Yoshiaki, 4,716,290, Cl. 250-231.0SE.

Nippon Gohsei Kagaku Kogyo Kabushiki Kaisha: *See*—
Hasegawa, Kenji; Sato, Tetsuo; and Iwanami, Teruo, 4,713,266, Cl. 427-412.500.
Iwanami, Teruo; and Moriyama, Takamasa, 4,704,423, Cl. 524-417.000.

Nippon Gosei Kagako Kogyo KK: *See*—
Ohshima, Tetsuya; Senshu, Hisashi; Matsuyama, Takeshi; Kawagishi, Yoji; Andoh, Takuo; and Kiryu, Takashi, 4,656,113, Cl. 430-137.000.

Nippon Grease Co., Ltd.: *See*—
Yasui, Hiroyoshi; Yoshida, Teruo; Komiya, Hiroshi; Oguchi, Toshitaro; and Okamura, Seiji, 4,668,411, Cl. 252-51.50A.

Nippon Hoso Kyokai: *See*—
Adachi, Masahiko; Ono, Isao; and Ikeda, Hiroaki, 4,672,328, Cl. 330-286.000.
Ando, Fumihiko, 4,710,817, Cl. 358-213.110.
Isono, Haruo; Kusaka, Hideo; and Hasegawa, Takeshi, 4,680,639, Cl. 358-224.000.
Maruyama, Masanori; Moriya, Masamichi; Kato, Shinichi; Fukushima, Masakazu; Nonaka, Yasuhiko; and Ogusu, Chihaya, 4,682,077, Cl. 315-14.000.
Murakami, Keinosuke; Enami, Kazumasa; and Yagi, Nobuyuki, 4,673,980, Cl. 358-149.000.
Ninomiya, Yuichi; Ohtsuka, Yoshimichi; Izumi, Yoshinori; and Goushi, Sei'ichi, 4,692,801, Cl. 358-133.000.
Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; Yamada, Osamu; and Ueguri, Shigeharu, 4,672,612, Cl. 371-37.000.
Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; and Yamada, Osamu, 4,675,868, Cl. 371-37.000.
Takayama, Shigehiko; Suzuki, Hitomi; Maruyama, Masanori; Fukushima, Masakazu; and Kurashige, Mitsuhiro, 4,713,588, Cl. 315-382.000.
Tanaka, Yutaka; Nishizawa, Taiji; Ninomiya, Yuichi; Ohmura, Toshiro; Kurita, Taiichiro; and Ohtsuka, Yoshimichi, 4,663,665, Cl. 358-140.000.
Wada, Masatoshi; and Sakai, Tetsuo, 4,692,662, Cl. 313-493.000.
Yuyama, Ichiro; Yamada, Mitsuho; Isono, Haruo; and Yasuda, Minoru, 4,704,627, Cl. 358-88.000.

Nippon Jidosha Eng. Kabushiki Kaisha: *See*—
Yoneda, Haruaki; and Hiramatsu, Takeo, 4,660,697, Cl. 192-0.033.

Nippon Jiryoku Senko Co., Ltd.: *See*—
Harada, Akihisa, 4,711,662, Cl. 75-1.00R.

Nippon Kayaku Kabushiki Kaisha: *See*—
Ajioka, Syohei; and Tanaka, Toshio, 4,634,448, Cl. 8-436.000.
Hashimoto, Matsuo; Kiyomoto, Masayuki; Karasawa, Yoshimitsu; Sakamoto, Kenji; Kakui, Yasuhiko; and Hirasawa, Yutaka, 4,675,252, Cl. 428-431.000.
Henmi, Yoshiyasu; Terada, Takashi; Suzuki, Masaru; and Ninomiya, Hiroshi, 4,701,327, Cl. 424-455.000.
Hirohashi, Setsuo; Shimosato, Yukio; and Watanabe, Masahiko, 4,683,200, Cl. 435-68.000.
Inoue, Atsuo; Miyamoto, Kazuhiro; Hisada, Nobuo; and Okinaga, Nobuyuki, 4,698,105, Cl. 149-2.000.
Inoue, Yoshimi; Seki, Mamoru; Katagiri, Mamoru; Nishiyama, Hiroaki; and Ogawa, Zenji, 4,675,339, Cl. 514-419.000.
Kato, Shoichi; Shimano, Shizuo; Hayaoka, Tatsumi; and Masui, Akio, 4,652,574, Cl. 514-347.000.
Matsumoto, Mutsumi; and Wada, Kouichi, 4,652,673, Cl. 562-535.000.
Miyazawa, Yoshinobu; Ooishi, Noriko; Aoki, Shigeru; and Tashiro, Yasuhisa, 4,667,054, Cl. 562-401.000.
Nakagawa, Taizo; Tanaka, Eiichi; Koike, Kengo; Yoshida, Hiromi; and Yoshida, Hiroshi, 4,659,722, Cl. 514-332.000.
Nawata, Kazuyoshi; Katayama, Masahito; and Yokoshima, Minoru, 4,636,534, Cl. 522-116.000.
Nomura, Masaharu; Tsugawa, Hiroaki; Ishizaka, Yukio; and Hosoi, Hiroomi, 4,682,192, Cl. 503-200.000.

Tetsuya; Kato, Kazuo; Takahashi, Yasushi; Ishii, Shinichi; hi, Tomio; and Umezawa, Hamao, 4,708,944, Cl. 00.
ji; and Ogawa, Eiichi, 4,667,021, Cl. 534-625.000.
ihiko; Kawada, Shuji; Futatsuya, Fumio; and Kobayashi, 4,666,507, Cl. 71-92.000.
a, Minoru; and Ohkubo, Tetsuo, 4,647,638, Cl. .000.
Hiroshi; Konishi, Kenji; Koike, Kengo; Nakagawa, Taizo; o, Shizuo; and Mochizuki, Seiji, 4,690,934, Cl. .000.
ku Co., Ltd.: *See*—
o; Noda, Tatsuhiko; Ichiyama, Tadashi; and Satoh, Taka-47,305, Cl. 75-0.50B.
shi Corporation: *See*—
higeru; and Rokuta, Katsutoshi, 4,653,491, Cl. 128-
Shigeru; and Rokuta, Katsutoshi, 4,704,108, Cl. .000.
ku K. K.: *See*—
utoshi; and Imamura, Kazunori, 4,715,392, Cl. 134-62.000.
Jun; and Suyama, Hitoshi, 4,707,101, Cl. 354-289.100.
suhiro; and Yonezawa, Yasuo, 4,634,237, Cl. 350-427.000.
suhiro, 4,639,094, Cl. 350-413.000.
Toshio; Hara, Masaharu; and Fukutani, Kazunobu, 6, Cl. 354-288.000.
jiro, 4,690,517, Cl. 350-458.000.
akamitsu; Mochida, Masaaki; and Ogino, Makoto, 2, Cl. 433-201.100.
ihito; and Saegusa, Takashi, 4,688,922, Cl. 354-441.000
i, Yoshinari, 4,641,928, Cl. 350-427.000.
i, Yoshinari, 4,653,871, Cl. 350-422.000.
i, Yoshinari, 4,653,877, Cl. 350-465.000.
i, Yoshinari, 4,655,558, Cl. 350-465.000.
, Hiroshi, 4,643,558, Cl. 354-484.000.
, Hiroshi, 4,668,069, Cl. 354-428.000.
Junji; Kato, Kinya; Tanimoto, Akikazu; and Izawa, Hisao, 26, Cl. 250-201.000.
shikazu; and Takahata, Hisatoshi, 4,652,108, Cl. .000.
ikazu; and Ishizuki, Kenji, 4,685,786, Cl. 354-21.000.
utaka, 4,666,259, Cl. 350-444.000.
Kazunori; and Mori, Yoshio, 4,666,292, Cl. 355-67.000.
asaki; and Kawahara, Atsushi, 4,639,797, Cl. 358-214.000.
asaki; and Nakagawa, Yukio, 4,689,691, Cl. 358-280.000.
shiaki; Matsuno, Koichiro; Kawada, Osamu; Ito, Ryozo; kamura, Eiji, 4,682,864, Cl. 350-511.000.
a, Masaomi, 4,655,162, Cl. 118-50.000.
a, Masaomi; and Matsumoto, Keichi, 4,715,318, Cl. .000.
ideo, 4,690,516, Cl. 350-444.000.
aya; and Endo, Kazumasa, 4,660,966, Cl. 355-43.000.
aya; and Tsuchiya, Hiroyuki, 4,690,565, Cl. 356-446.000.
inya, 4,710,029, Cl. 356-401.000.
, Atsushi; and Okita, Masaya, 4,692,815, Cl. 358-335.000
a, Atsushi; and Takatsu, Norihiko, 4,696,021, Cl. 000.
Kazuyuki; and Wakabayashi, Hiroshi, 4,637,702, Cl. 110.
Kazuyuki; and Nakamura, Toshiyuki, 4,670,693, Cl. .000.
Kazuyuki, 4,684,232, Cl. 354-400.000.
Kazuyuki; Nakamura, Toshiyuki; and Wakabayashi, Hiro-4,938, Cl. 354-173.100.
, Jiro; and Yoshikawa, Koichi, 4,685,206, Cl. 29-740.000.
Kenichi; Tanimoto, Akikazu; Izawa, Hisao; Hamashima, and Hazama, Junji, 4,685,805, Cl. 356-373.000.
Yoshiro; Naito, Hideshi; and Shiokama, Yoshiharu, l, Cl. 350-429.000.
osuke; and Shimomura, Jun, 4,644,148, Cl. 250-201.000.
osuke; and Utagawa, Ken, 4,687,917, Cl. 250-201.000.
Kiyosada; Nakano, Yoshiyuki; and Matsukawa, Nobuo, 9, Cl. 354-484.000.
Nobutaka; and Ichihara, Yutaka, 4,710,026, Cl. 000.
Toshio; Murakami, Seiro; Imai, Yuji; Ohta, Kazuya; and o, Akikazu, 4,702,606, Cl. 356-401.000.
iyoharu; Morohashi, Kazuo; Yamada, Kenji; Gonda, ; and Mizutani, Hideo, 4,641,964, Cl. 356-124.000.
Katsumi; Yanai, Junichi; and Kimoto, Kiyoshi, 4,641,296, 46.000.
Norio; and Kasai, Toshiyuki, 4,648,695, Cl. 353-28.000.
mu, 4,657,351, Cl. 350-427.000.
Keiji, 4,662,724, Cl. 350-427.000.
Ryuzo; Kimura, Makoto; Isogai, Masaki; Sato, Akimasa; ahara, Atsushi, 4,651,226, Cl. 358-293.000.
Masaichi; Kawai, Hidemi; and Suwa, Kyoichi,), Cl. 353-122.000.
Seiro; and Hamajima, Muneki, 4,639,604, Cl. 000.
Seiro; Matsuura, Toshio; Imai, Yuji; and Ohta, Kazuya, , Cl. 356-400.000.
leshi; Kodaka, Yoshiro; and Shiokama, Yoshiharu,), Cl. 350-429.000.
Yukio; and Motoori, Ryuzo, 4,649,436, Cl. 358-280.000.

Nakano, Yoshiyuki; and Takemae, Mikio, 4,707,095, Cl. 354-173.110.
Nishioka, Sunao; and Takemae, Mikio, 4,707,105, Cl. 354-412.000.
Nozawa, Hideyo; Hara, Toshiro; and Juen, Masahiro, 4,704,022, Cl. 354-219.000.
Ogasawara, Akira; Watanabe, Sakuji; Terui, Nobuhiko; Utagawa, Ken; and Hoshino, Kunihisa, 4,634,851, Cl. 250-204.000.
Ogasawara, Akira, 4,695,150, Cl. 354-448.000.
Ogawa, Hidehiro; Ezawa, Akira; and Ikeda, Kei, 4,652,102, Cl. 354-21.000.
Ohkubo, Yuji, 4,639,113, Cl. 354-472.000.
Ohno, Koichi, 4,676,614, Cl. 353-101.000.
Okano, Hiroshi; Kanno, Hideo; and Ohmori, Sachio, 4,707,100, Cl. 354-273.000.
Okita, Masaya; and Uehara, Ryo, 4,651,108, Cl. 329-110.000.
Okita, Masaya; Sawada, Masahiro; and Ota, Tadashi, 4,658,191, Cl. 318-314.000.
Okita, Masaya; Sawada, Masahiro; and Ota, Tadashi, 4,710,684, Cl. 318-254.000.
Okita, Masaya; Sawada, Masahiro; and Ota, Tadashi, 4,710,825, Cl. 358-342.000.
Okita, Masaya, 4,710,827, Cl. 360-10.100.
Saegusa, Takashi, 4,636,054, Cl. 354-432.000.
Sakato, Keiichiro, 4,712,910, Cl. 355-53.000.
Sasagaki, Nobuaki; and Fujii, Hidekatsu, 4,693,577, Cl. 354-155.000.
Sato, Hiroshi; Kadowaki, Kohei; Naito, Kaoru; Toyoda, Kenji; and Tsuchihashi, Hidehisa, 4,704,617, Cl. 346-76.0PH.
Satoh, Tsuyoshi; Mitsuishi, Tsutomu; Toyoda, Kenji; Naito, Kaoru; Ogawa, Makoto; and Sato, Hiroshi, 4,698,646, Cl. 346-76.0PH.
Shimizu, Hisayuki; Anzai, Satoru; Tanaka, Hiroshi; and Suwa, Kyoichi, 4,666,273, Cl. 353-101.000.
Shimizu, Yoshiyuki; and Mori, Takashi, 4,666,256, Cl. 350-414.000.
Shirasu, Hiroshi; Shimeno, Kazuhiro; and Iwamoto, Joji, 4,710,604, Cl. 219-121.0LU.
Suwa, Kyoichi, 4,650,983, Cl. 250-204.000.
Suwa, Kyoichi, 4,657,379, Cl. 355-53.000.
Suwa, Kyoichi; Kawai, Hidemi; and Murakami, Masaichi, 4,679,942, Cl. 356-401.000.
Takagi, Akihiro; and Kimoto, Kiyoshi, 4,691,308, Cl. 369-13.000.
Takahama, Akio, 4,644,659, Cl. 33-1.00T.
Takahashi, Tomowaki, 4,653,872, Cl. 350-427.000.
Takahashi, Tomowaki; and Aono, Yasuhiro, 4,699,475, Cl. 350-427.000.
Takatsu, Norihiko, 4,686,572, Cl. 358-213.130.
Takeda, Tomihiro, 4,666,265, Cl. 351-41.000.
Takhashi, Fumio, 4,704,018, Cl. 351-206.000.
Tanabe, Yoshiaki; Katayama, Akira; and Hasuda, Masanori, 4,657,366, Cl. 354-246.000.
Tanaka, Etsuo; and Tanabe, Yoshiaki, 4,668,065, Cl. 354-152.000.
Tanaka, Hiroshi; Kakizaki, Yukio; Iwata, Hiromitsu; and Naraki, Tsuyoshi, 4,655,584, Cl. 355-53.000.
Tanaka, Hiroshi, 4,668,077, Cl. 355-30.000.
Tanaka, Hiroshi; Iwata, Hiromitsu; and Kakizaki, Yukio, 4,716,299, Cl. 250-571.000.
Tanimoto, Akikazu; Matsuura, Toshio; Murakami, Seiro; Uehara, Makoto; and Suwa, Kyoichi, 4,677,301, Cl. 250-548.000.
Tanimoto, Akikazu; Ishizaka, Shoji; Endo, Yutaka; Suzuki, Hiroyuki; and Yanagihara, Masamitsu, 4,687,322, Cl. 355-55.000.
Tanimoto, Akikazu; and Imamura, Kazunori, 4,690,528, Cl. 353-101.000.
Tanimoto, Akikazu; Matsuura, Toshio; and Suwa, Kyoichi, 4,699,515, Cl. 356-40.000.
Tanimoto, Akikazu; and Ishizaka, Shoji, 4,701,606, Cl. 250-201.000.
Tanimoto, Akikazu, 4,711,567, Cl. 355-53.000.
Terasawa, Hidenori, 4,650,295, Cl. 350-425.000.
Terasawa, Hidenori, 4,709,997, Cl. 350-427.000.
Terui, Nobuhiko; and Takahata, Hisatoshi, 4,695,148, Cl. 354-413.000.
Terui, Nobuhiko; and Hagiuda, Nobuyoshi, 4,697,907, Cl. 354-416.000.
Toyoda, Kenji; Kimura, Makoto; and Isogai, Masaki, 4,658,301, Cl. 379-100.000.
Toyoda, Kenji; and Hishinuma, Toru, 4,701,804, Cl. 358-280.000.
Tsuchihashi, Hidehisa; and Naito, Kaoru, 4,661,825, Cl. 346-76.0PH.
Tsuchiya, Yukikazu, 4,650,296, Cl. 350-519.000.
Uchikawa, Kiyoshi; and Niwa, Tatsuo, 4,652,090, Cl. 350-357.000.
Uehara, Makoto; and Hashimoto, Sumio, 4,637,691, Cl. 350-432.000.
Uematsu, Kimio; and Ezawa, Akira, 4,666,278, Cl. 354-288.000.
Uematsu, Kimio, 4,685,790, Cl. 354-203.000.
Utagawa, Ken, 4,674,855, Cl. 354-403.000.
Wakabayashi, Hiroshi, 4,643,555, Cl. 354-403.000.
Wakabayashi, Hiroshi; Miyamoto, Hidenori; and Terunuma, Hiroshi, 4,668,070, Cl. 354-484.000.
Wakabayashi, Hiroshi, 4,669,848, Cl. 354-400.000.
Wakabayashi, Hiroshi; Obikawa, Fumito; and Ikeda, Masayuki, 4,688,763, Cl. 354-173.110.
Wakabayashi, Hiroshi; and Kazami, Kazuyuki, 4,690,533, Cl. 354-173.110.
Wakabayashi, Hiroshi; Kazami, Kazuyuki; and Uchida, Isao, 4,697,898, Cl. 354-127.130.
Wakabayashi, Hiroshi; and Wakamiya, Koichi, 4,697,901, Cl. 354-221.000.
Wakabayashi, Tsutomu, 4,688,921, Cl. 354-416.000.
Wakamiya, Koichi, 4,653,887, Cl. 354-219.000.

Wakamiya, Koichi, 4,676,607, Cl. 350-476.000.
Wakamiya, Koichi, 4,705,364, Cl. 350-463.000.
Wakamiya, Koichi, 4,707,098, Cl. 354-219.000.
Yabumoto, Seiichi, 4,710,816, Cl. 358-213.150.
Yamada, Kenji, 4,641,961, Cl. 356-124.000.
Yamada, Kenji, 4,679,921, Cl. 351-222.000.
Yamano, Shozo, 4,677,306, Cl. 250-578.000.
Yokomuma, Norikazu; and Hagiuda, Nobuyoshi, 4,660,956, Cl. 354-416.000.

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Akiba, Takehiko, 4,649,850, Cl. 114-230.000.
Gohdo, Shigeru, 4,643,121, Cl. 114-40.000.
Hara, Tomihiro; Adaniya, Takeshi; Yamashita, Masaaki; and Enatsu, Akira, 4,659,394, Cl. 148-6.200.
Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; and Matsuo, Kazuhiko, 4,650,517, Cl. 75-10.450.
Horigome, Hidekazu; Onishi, Takahiro; and Yamagishi, Makoto, 4,651,559, Cl. 73-40.50R.
Hosoe, Toshiaki; Ando, Seigo; and Kawase, Yoshihiro, 4,716,366, Cl. 324-207.000.
Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, 4,678,856, Cl. 560-24.000.
Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, 4,699,994, Cl. 560-025.000.
Ishiwatari, Takeo; Sasaki, Yasuchiyo; Misawa, Rokuro; and Takao, Shingo, 4,641,690, Cl. 141-4.000.
Iwamura, Yoshinari; Okimoto, Katsunori; Teshima, Toshio; Miyahara, Shinobu; Uchida, Shigetaka; Sera, Taizo; and Ozawa, Koichi, 4,646,977, Cl. 239-590.500.
Kageichika, Hiroshi; Tonouchi, Akira; and Kammel, Roland, 4,673,471, Cl. 204-44.500.
Kanda, Noboru; Yokoyama, Kenzou; Aoki, Ken-ichi; Akita, Shinji; Hatanaka, Masayuki; and Oda, Tatsuharu, 4,711,733, Cl. 252-29.000.
Katayama, Toshitake; Kuwamoto, Hiroshi; Iwado, Shuichi; Sonoda, Sakae; Okamoto, Shoji; and Kaburagi, Koji, 4,666,617, Cl. 252-32.000.
Kawai, Chiaki; Ohta, Minoru; and Inaba, Takahisa, 4,686,919, Cl. 114-45.000.
Kondo, Kiyoshi; Kataoka, Fukuhiko; and Uno, Kiyotaka, 4,700,817, Cl. 188-380.000.
Kurama, Kenichiro; and Shibata, Michiyasu, 4,682,780, Cl. 279-79.000.
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, 4,637,885, Cl. 252-32.500.
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; Iwado, Shuichi; and Sakaguchi, Yoshihiro, 4,663,061, Cl. 252-32.500.
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; and Iwado, Shuichi, 4,664,823, Cl. 252-34.000.
Kuwamoto, Hiroshi; Iwadoo, Shuichi; Okami, Yuji; Nagamori, Hiroyuki; and Nakagawa, Yasuhiro, 4,693,839, Cl. 252-51.50A.
Makabe, Eiichi; Harada, Naoki; Imai, Kiyotaka; Hosoda, Yoshiro; and Kato, Akira, 4,643,587, Cl. 374-104.000.
Makabe, Eiichi; Uesugi, Mitsuaki; Inomata, Masaichi; Maruyama, Kyusuke; Iwai, Kenji; and Sano, Kazuo, 4,716,459, Cl. 358-106.000.
Matsuo, Kazuhiko; Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; Shiwata, Akio; Hamada, Yoneichi; Komatsu, Yoshimi; Kondo, Tsuneo; Shirotani, Yusuke; Nakashima, Hirohisa; and Matsuda, Yasuhiro, 4,674,101, Cl. 373-95.000.
Mitani, Kazuo; Hirota, Yoshiharu; Kumagai, Shinobu; Komori, Shigeki; and Tsuru, Masahiro, 4,660,618, Cl. 164-454.000.
Miyashita, Tsuneo; Yoshikoshi, Hideyuki; Nishio, Hiroaki; and Takeuchi, Osamu, 4,636,342, Cl. 264-82.000.
Miyashita, Tsuneo; and Nishio, Hiroaki, 4,676,949, Cl. 419-32.000.
Nagamori, Hiroyuki; Mukai, Takashi; Tsushima, Rikio; Kuwamoto, Hiroshi; Iwado, Shuichi; and Sharyo, Takeru, 4,650,595, Cl. 252-32.500.
Nakaoka, Kazuhide; Takada, Yoshikazu; Inagaki, Junichi; and Hiura, Akira, 4,715,905, Cl. 148-111.000.
Nakashima, Hirohisa; Komatsu, Yoshimi; Ikeda, Masafumi; and Kondo, Tsuneo, 4,652,306, Cl. 75-10.170.
Nakashima, Hirohisa; Komatsu, Yoshimi; Ikeda, Masafumi; and Kondo, Tsuneo, 4,652,308, Cl. 75-49.000.
Nomura, Hirokazu; Sato, Yukihiko; Morishige, Eiji; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,672,173, Cl. 219-125.100.
Nomura, Hirokazu; Sato, Yukihiko; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,686,341, Cl. 219-54.000.
Ohta, Harutaka; Miyamoto, Kazuchiyo; Terayama, Arataro; Maruhashi, Seiji; and Gohdo, Shigeru, 4,708,082, Cl. 114-230.000.
Ouchi, Chiaki; Suenaga, Hiroyoshi; Sakuyama, Hideo; Hanai, Michio; and Sawamura, Ichiroh, 4,675,055, Cl. 148-11.50F.
Ouchi, Chiaki; Niikura, Masakazu; and Suenaga, Hiroyoshi, 4,694,985, Cl. 228-235.000.
Oyamoto, Toshiya; Makino, Katsuaki; and Ogawara, Fumio, 4,702,818, Cl. 208-81.000.
Petty, Terry D.; Costello, Carmon R.; Song, Kun K.; Chabot, Luc G.; Fujita, Tadaharo; Hirose, Haruki; and Yoshimura, Nobutoshi, 4,639,167, Cl. 405-217.000.
Sugitani, Yuji; and Tamaoki, Naohiro, 4,639,573, Cl. 219-124.220.
Sugitani, Yuji; and Tamaoki, Naohiro, 4,670,642, Cl. 219-125.120.
Sugitani, Yuji; Kobayashi, Yukio; and Murayama, Masatoshi, 4,704,513, Cl. 219-125.120.
Tsuchimoto, Yoshihiro; and Takesa, Kazuhiko, 4,697,615, Cl. 137-340.000.
Tsuru, Masahiro; and Mitani, Kazuto, 4,651,803, Cl. 164-454.000.
Uyama, Kiyoshi; and Kihara, Yasuhiko, 4,657,682, Cl. 210-770.000.
Yamada, Takemi; Satoh, Tamataro; Mizushina, Masaaki; Toyota, Koji; and Okamoto, Hiroaki, 4,661,371, Cl. 427-49.000.
Yamada, Takeo; Ando, Seigo; and Kawase, Yoshihiro, 4,647,854, Cl. 324-207.000.

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Nomura, Hirokazu; Sato, Yukihiko; Morishige, Eiji; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,672,173, Cl. 219-125.100.
Nomura, Hirokazu; Sato, Yukihiko; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,686,341, Cl. 219-54.000.

Nippon Kores Kabushiki Kaisha: *See*—
Hayashi, Seiichi; Nakamura, Takashi; and Tanabe, Hisayuki, 4,710,782, Cl. 346-76.00R.

Nippon Landex Ltd.: *See*—
Uemura, Yasuhiro, 4,701,817, Cl. 360-96.500.

Nippon Light Metal Company Limited: *See*—
Hanazaki, Masayuki; Harada, Noriyuki; and Shimada, Kaoru, 4,655,951, Cl. 252-70.000.
Ishii, Tooru; and Isobe, Masashi, 4,650,527, Cl. 148-6.160.
Ishii, Toru; Isobe, Masashi; and Endo, Mariko, 4,671,825, Cl. 148-6.15R.
Isoda, Yukitomo, 4,654,477, Cl. 174-128.00R.
Ohira, Shigeo; and Iwaki, Masaya, 4,698,233, Cl. 427-38.000.
Uesaka, Susumu; and Harada, Noriyuki, 4,674,886, Cl. 366-144.000.
Yoshida, Katunori, 4,690,247, Cl. 182-63.000.

Nippon Magnetic Dressing Co., Ltd.: *See*—
Tormari, Makao; Toshimitsu, Takashi; and Jogo, Hiroyuki, 4,652,310, Cl. 75-256.000.

Nippon Mayer Co., Ltd.: *See*—
Ono, Kohtaro, 4,686,134, Cl. 428-222.000.

Nippon Mektron, Ltd.: *See*—
Mizuko, Tsutomu; Tsukahara, Toshiyuki; Yoshuda, Masaharu; and Nemoto, Koji, 4,675,786, Cl. 361-398.000.

Nippon Mining Co., Ltd.: *See*—
Kamai, Takashi; and Kusayanagi, Sampo, 4,707,280, Cl. 252-49.600.
Kamio, Morinori; Tsuji, Masahiro; and Miyashita, Hirohito, 4,666,667, Cl. 420-471.000.
Oxino, Hiroshi; Uchida, Seiichi; and Matsushita, Keita, 4,700,007, Cl. 568-347.000.
Ouchi, Chiaki; Suenaga, Hiroyoshi, Sakuyama, Hideo; Hanai, Michio; and Sawamura, Ichiroh, 4,675,055, Cl. 148-11.50F.
Sato, Yasukazu; Matsuda, Kenichi; Ozaki, Hiromi; Suzuka, Terao; and Yamane, Mamoru, 4,643,813, Cl. 204-157.780.
Taki, Kazuhiro; and Sakuyama, Hideo, 4,666,666, Cl. 420-421.000.
Tanino, Katsumi; Kiuchi, Norihiro; Tominaga, Chikara; Itoh, Eiji; Ogino, Kiyoshi; Yahagi, Masataka; and Sakamoto, Masru, 4,656,455, Cl. 338-35.000.
Wakao, Noriaki, 4,655,691, Cl. 417-122.000.

Nippon Notion Kogyo Co., Ltd.: *See*—
Fukuro, Takeo; and Inazawa, Keichi, 4,639,983, Cl. 24-669.000.
Kasai, Kazumi, 4,637,099, Cl. 24-200.000.
Kasai, Kazumi, 4,639,982, Cl. 24-616.000.
Kasai, Kazumi, 4,664,574, Cl. 411-508.000.
Kasai, Kazumi, 4,665,592, Cl. 24-236.000.
Oura, Hiroshi, 4,641,741, Cl. 198-493.000.
Seki, Fumio, 4,650,104, Cl. 227-99.000.
Taga, Yukio, 4,645,110, Cl. 227-2.000.
Watanabe, Hirokazu, 4,683,621, Cl. 24-95.000.

Nippon Oil Company, Ltd.: *See*—
Hara, Hajime; Orii, Shingo; Aoyama, Kazuho; and Enomoto, Masami, 4,639,503, Cl. 528-92.000.
Inoue, Kiyoshi; and Nose, Yoshiharu, 4,683,126, Cl. 422-280.000.
Itoh, Hiroyuki; Sakata, Ko; and Imai, Hirosuke, 4,636,229, Cl. 55-158.000.
Kobori, Yoshihiro; and Takezono, Tetsuya, 4,673,885, Cl. 549-498.000.
Kobori, Yoshihiro; and Takezono, Tetsuya, 4,656,307, Cl. 560-117.000.
Kubo, Junichi, 4,640,765, Cl. 208-110.000.
Matsubara, Saburo; and Yagi, Shinichi, 4,680,154, Cl. 264-63.000.
Nambu, Masao, 4,664,857, Cl. 264-28.000.
Orii, Shingo; Hara, Hajime; Satoh, Tetsuo; Toya, Tomohiro; and Iida, Shigeki, 4,652,626, Cl. 528-194.000.
Otsuki, Yutaka; Omika, Hiroyoshi; Oshima, Akio; Araki, Yoshihiko; and Tsuchiya, Yasuyuki, 4,642,325, Cl. 525-65.000.
Sasaki, Makoto; Yamakawa, Masaki; Hirose, Toshifumi; and Isayama, Katsuhiko, 4,707,526, Cl. 525-404.000.
Takezono, Tetsuya; Amari, Takaaki; and Imai, Hirosuke, 4,645,576, Cl. 203-30.000.
Toya, Tomohiro; Hara, Hajime; Iida, Shigeki; and Satoh, Tetsuo, 4,698,397, Cl. 525-437.000.
Uemura, Seiichi; Hirose, Takao; Sohda, Yoshio; Sakamoto, Takayoshi; and Katoh, Kenji, 4,656,022, Cl. 423-447.200.
Yamaoka, Noboru; Yokoyama, Shigeki; Matsuura, Kazuo; Misumi, Kozo; Watanabe, Junichi; and Kadomatsu, Seiji, 4,704,439, Cl. 525-334.100.
Yoshida, Toshio; and Watanabe, Harumichi, 4,665,275, Cl. 585-27.000.
Yoshida, Toshio; and Watanabe, Harumichi, 4,714,794, Cl. 585-26.000.
Yuasa, Hitoshi; and Matsuno, Mitsuo, 4,675,459, Cl. 585-21.000.

Nippon Oil & Fats Co., Ltd.: *See*—
Araki, Masatada, 4,671,710, Cl. 408-145.000.
Araki, Masatada, Kuroyama, Yutaka, Takeuchi, Yukihisa, Takagi, Makoto, and Imura, Toru, 4,713,871, Cl. 29-421.60E.
Bando, Shigeki, Oshibe, Yoshihiro, and Nakagawa, Yoshimasa, 4,708,982, Cl. 525-92.000.
Ikeda, Toshiki, Beppu, Yoshitugu, Yamamoto, Takashi, Ishigaki, Hideyo, and Ohmura, Hiroshi, 4,698,367, Cl. 521-57.000.
Kakino, Shigeru, Moriyama, Hideo, Sugimoto, Kazutoshi, and Motohira, Tsukasa, 4,671,160, Cl. 86-20.100.
Kato, Kenji, Okada, Yuji, and Aoshima, Kazuyoshi, 4,658,001, Cl. 526-218.100.
Makino, Yoshio, Nagai, Takeshi, and Yamazaki, Shingo, 4,636,323, Cl. 252-51.50R.
Moriya, Yasuo, Suzuki, Nobuyoshi, and Deguchi, Toru, 4,665,131, Cl. 525-277.000.
Moriya, Yasuo, Suzuki, Nobuyoshi, and Okada, Yuji, 4,665,132, Cl. 525-277.000.
Ohmura, Hiroshi, and Nakayama, Masaharu, 4,659,769, Cl. 524-529.000.
Ohmura, Hiroshi, Oshibe, Yoshihiro, Nakayama, Masaharu, and Yamamoto, Takashi, 4,698,388, Cl. 525-88.000.
Ono, Takayuki, Murata, Yoshishige, and Amaya, Naoyuki, 4,670,520, Cl. 528-503.000.
Sumida, Seizi, Ono, Kaichi, Yoshida, Kazuo, and Yamada, Tomozo, 4,709,057, Cl. 549-262.000.
Toyama, Takashi, Ohno, Masashi, Ishii, Kimmori, Yamamoto, Shosaku, and Kakinuma, Kazuo, 4,707,381, Cl. 427-407.100.
Nippon Paint Co., Ltd.: *See*—
Eguchi, Yoshio, and Yamada, Atsushi, 4,687,822, Cl. 526-265.000.
Furuno, Nobuo, 4,655,909, Cl. 210-90.000.
Ishikawa, Katsukiyo, Nishijima, Kanji, and Seio, Mamoru, 4,671,854, Cl. 156-659.100.
Ishikawa, Katsukiyo, Nishijima, Kanji, and Seio, Mamoru, 4,673,458, Cl. 156-659.100.
Ito, Takeyasu, and Kuwajima, Teruaki, 4,705,821, Cl. 524-407.000.
Moriyono, Tadafumi, Eguchi, Yoshio, Ogino, Akiharu, Sawada, Haruhiko, and Okude, Yoshitaka, 4,714,634, Cl. 427-409.000.
Nozima, Takashi, 4,685,419, Cl. 118-620.000.
Okude, Yoshitaka, and Itoh, Eiji, 4,659,781, Cl. 525-279.000.
Satoh, Haruhiko, Tanabe, Hisaki, and Umemoto, Hirotoshi, 4,680,348, Cl. 525-528.000.
Tsuchiya, Yasuyuki, and Sakamoto, Hiroyuki, 4,692,483, Cl. 523-406.000.
Tsutsui, Koichi, Eguchi, Yoshio, and Kataoka, Hiroyoshi, 4,659,795, Cl. 526-301.000.
Urano, Satoshi, Aoki, Kei, Ito, Takeyasu, Suzuki, Yuji, and Mizuguchi, Ryuzo, 4,666,993, Cl. 525-328.200.
Nippon Petrochemicals: *See*—
Kojima, Shinji, Suzuki, Hirokazu, and Orikasa, Yuichi, 4,654,255, Cl. 428-261.000.
Nippon Petrochemicals Company, Limited: *See*—
Bommer, Jerry C., and Burnham, Bruce F., 4,656,186, Cl. 514-410.000.
Bommer, Jerry C., and Burnham, Bruce F., 4,675,338, Cl. 514-410.000.
Bommer, Jerry C., and Burnham, Bruce F., 4,693,885, Cl. 424-2.000.
Hayakawa, Masaru, Yoshida, Takeshi, and Kaiya, Atsushi, 4,691,759, Cl. 164-526.000.
Inoue, Yoshiharu, Tanimoto, Fumio, and Kitano, Hisao, 4,693,844, Cl. 512-14.000.
Komiya, Takeshi, Matsuura, Kazuo, Miyoshi, Mituji, Misumi, Koji, Kadomatsu, Seiji, and Nose, Shinji, 4,652,616, Cl. 525-331.700.
Kotsuc, Haruhisa, Rokushima, Yasuo, and Yanagi, Tosio, 4,704,731, Cl. 383-120.000.
Kawakami, Shigenobu, Matsuzaka, Eiichi, Narui, Satoshi, and Takahashi, Naoya, 4,661,165, Cl. 106-311.000.
Kojima, Shinji, Suzuki, Hirokazu, and Orikasa, Yuichi, 4,656,094, Cl. 428-412.000.
Mise, Masataka, Furukawa, Masami, Kojima, Shinji, and Amatsu, Takeo, 4,650,818, Cl. 523-205.000.
Saito, Atsushi, Endo, Keiji, Kawakami, Shigenobu, and Doi, Hideyuki, 4,639,833, Cl. 361-315.000.
Saito, Atsushi, Endo, Keiji, Kawakami, Shigenobu, Matsuzaka, Eiichi, and Narui, Satoshi, 4,642,730, Cl. 361-315.000.
Saito, Atsushi, Endo, Keiji, Doi, Hideyuki, and Kawakami, Shigenobu, 4,670,348, Cl. 428-461.000.
Saito, Atsushi, Endo, Keiji, Kawakami, Shigenobu, Yanagishita, Hiroshi, and Hayashi, Shozo, 4,681,980, Cl. 585-6.300.
Saito, Atsushi, Murai, Yoshikazu, Yamaguchi, Tatsuo, Mochizuki, Kunio, and Sugisawa, Kunio, 4,692,270, Cl. 252-353.000.
Saito, Atsushi, Kawakami, Shigenobu, Endo, Keiji, and Doi, Hideyuki, 4,716,084, Cl. 428-458.000.
Shimizu, Isoo, Matsumura, Yasuo, and Inomata, Yoshihisa, 4,659,840, Cl. 548-549.000.
Shimizu, Isoo, Hirano, Ryotaro, Matsumura, Yasuo, Nomura, Hideki, Uchida, Kazumichi, and Sato, Atsushi, 4,694,100, Cl. 560-105.000.
Shimizu, Isoo, Matsumura, Yasuo, and Inomata, Yoshihisa, 4,709,069, Cl. 562-494.000.
Takahashi, Naoya, Endo, Keiji, Matsuzaka, Eiichi, Narui, Satoshi, and Sato, Atsushi, 4,686,548, Cl. 503-213.000.
Nippon Pillar Packing Co., Ltd.: *See*—
Ueda, Takahisa, and Shiomi, Tomikazu, 4,705,722, Cl. 428-365.000.
Nippon Piston Ring Co., Ltd.: *See*—
Fujita, Yoshiaki, and Kawai, Satoshi, 4,696,696, Cl. 75-246.000.
Sakamaki, Hiroshi, Sugishita, Susumu, Horikoshi, Yukio, and Yanagihashi, Kikuji, 4,648,818, Cl. 418-173.000.
Sakamaki, Hiroshi, Sugishita, Susumu, and Horikoshi, Yukio, 4,648,819, Cl. 418-173.000.
Sakamaki, Hiroshi, Sugishita, Susumu, Horikoshi, Yukio, Okamura, Hiroshi, and Shimizu, Kenji, 4,649,612, Cl. 29-156.40R.
Sakamaki, Hiroshi, Horikoshi, Yukio, and Yanagihashi, Kikuji, 4,657,493, Cl. 418-173.000.
Sakamaki, Hiroshi, Sugishita, Susumu, and Horikoshi, Yukio, 4,657,495, Cl. 418-82.000.
Sakamaki, Hiroshi, Sugishita, Susumu, and Horikoshi, Yukio, 4,681,519, Cl. 418-152.000.
Umeha, Genkichi, Urano, Shigeru, Hirakawa, Osamu, and Takeguchi, Shunsuke, 4,644,912, Cl. 123-90.340.
Umeha, Genkichi, Urano, Shigeru, Hirakawa, Osamu, and Takeguchi, Shunsuke, 4,649,011, Cl. 264-267.000.
Umeha, Genkichi, and Hirakawa, Osamu, 4,665,766, Cl. 74-567.000.
Urano, Shigeru, and Takeguchi, Shunsuke, 4,687,185, Cl. 266-274.000.
Urano, Shigeru, 4,708,029, Cl. 74-567.000.
Nippon Pneumatic Manufacturing Co., Ltd.: *See*—
Takada, Keiji, and Aoki, Tsutomu, 4,664,571, Cl. 409-134.000.
Nippon Power Engineering Co., Ltd.: *See*—
Hoshino, Shigeru, and Sato, Teruo, 4,703,563, Cl. 33-227.000.
Nippon Rehabili-Medical Corporation: *See*—
Terauchi, Ryugo, 4,697,580, Cl. 128-36.000.
Nippon Rubber Co., Ltd.: *See*—
Harada, Masasuke, Tsukamoto, Kouji, and Itou, Tomohiro, 4,661,547, Cl. 524-156.000.
Ishibashi, Tokujiro, 4,689,900, Cl. 36-103.000.
Moronaga, Yoshiharu, and Izumi, Junji, 4,633,598, Cl. 36-44.000.
Nippon Sanso Kabushiki Kaisha: *See*—
Iwasaki, Tadayoshi, Ariga, Keiki, and Sato, Makoto, 4,709,578, Cl. 73-49.300.
Kawasaki, Tamotsu, Iwasaki, Tadayoshi, Maeda, Takayuki, and Morita, Minoru, 4,668,551, Cl. 428-69.000.
Kawasaki, Tamotsu, Kuwana, Takeshi, and Morita, Minoru, 4,669,632, Cl. 220-423.000.
Miyaji, Kenichi, Toida, Shouji, and Arai, Yoshinori, 4,653,469, Cl. 126-390.000.
Miyaji, Kenichi, Toida, Shouji, Ito, Seiichi, Iwasaki, Kazunori, and Kishida, Masatoshi, 4,675,508, Cl. 219-437.000.
Miyaji, Kenichi, Toida, Shouji, and Arai, Yoshinori, 4,684,057, Cl. 228-187.000.
Nippon Seiki Co., Ltd.: *See*—
Hasegawa, Kyohei, 4,687,140, Cl. 239-332.000.
Hasegawa, Kyohei, 4,700,890, Cl. 239-103.000.
Ito, Michio, Kambayashi, Kiyoshi, and Takezawa, Junichi, 4,677,015, Cl. 428-201.000.
Nippon Seiki Corporation: *See*—
Shinbo, Shintaro, and Saito, Yasuo, 4,656,561, Cl. 362-30.000.
Yachida, Yoichi, and Yoneyama, Masaya, 4,648,104, Cl. 377-54.000.
Nippon Seiko Kabushiki Kaisha: *See*—
Aoyama, Yoshiyuki, Funabashi, Shuitsu, and Matsuzaka, Masaaki, 4,659,938, Cl. 250-566.000.
Hattori, Masaru, 4,637,739, Cl. 384-45.000.
Higuchi, Toshiro, 4,683,391, Cl. 310-90.500.
Higuchi, Toshiro, 4,689,529, Cl. 318-135.000.
Kakuta, Kazuo, 4,656,545, Cl. 360-98.000.
Kan, Yoshiro, 4,715,780, Cl. 415-170.00A.
Katahira, Masayuki, 4,648,726, Cl. 384-45.000.
Kawakita, Kazuaki, and Higuchi, Makio, 4,661,773, Cl. 324-208.000.
Kyoosei, Noriyuki, and Sato, Kenro, 4,668,209, Cl. 474-190.000.
Machino, Takami, and Kikuchi, Akira, 4,667,156, Cl. 324-173.000.
Miyaura, Yasuhiko, and Machida, Hisashi, 4,669,334, Cl. 74-866.000.
Nishida, Soji, and Miyake, Nobuhiko, 4,696,587, Cl. 384-536.000.
Tanaka, Hirohisa, 4,638,691, Cl. 74-866.000.
Tanaka, Katsuhiko, 4,791,651, Cl. 310-90.000.
Tanaka, Yasuo, and Nitkura, Akio, 4,696,588, Cl. 384-615.000.
Yamaguchi, Toshiaka, and Yabe, Shirouji, 4,671,127, Cl. 74-89.150.
Yokote, Yoshihiro, 4,664,414, Cl. 280-804.000.
Yoshihara, Toshiro, 4,671,682, Cl. 384-484.000.
Nippon Seisen Co., Ltd.: *See*—
Shirai, Norio, Kishimoto, Jotaro, Noguchi, Yukihide, Ishibe, Hideomi, and Nagai, Kiyoshi, 4,662,915, Cl. 55-511.000.
Nippon Sheet Glass Co., Ltd.: *See*—
Funaki, Masaaki, Ohtani, Noboru, Yoshida, Motoaki, Fujioka, Akira, and Sakiyama, Kazuo, 4,642,266, Cl. 428-412.000.
Gomi, Manabu, and Abe, Masanori, 4,657,782, Cl. 427-130.000.
Ichikawa, Hiroyuki, Nishi, Hisami, and Toyama, Minoru, 4,643,535, Cl. 350-413.000.
Ichikawa, Hiroyuki, and Toyama, Minoru, 4,693,565, Cl. 350-413.000.
Iida, Naohiro, 4,711,654, Cl. 65-172.000.
Kitaya, Katsuhiko, and Ichise, Nagayoshi, 4,647,197, Cl. 356-239.000.
Kitaya, Katsuhiko, Iida, Naohiro, Miyake, Atsushi, Kobayashi, Mitsuo, and Shirai, Akira, 4,685,180, Cl. 29-33.00R.
Kouichi, Maeda, Masaaki, Funaki, Motoaki, Yoshida, and Yasuji, Ohtsuka, 4,689,000, Cl. 425-67.000.
Manabe, Seiichiro, Sawano, Tsutomu, and Saijo, Takemi, 4,693,739, Cl. 65-21.400.

Nagayama, Hirotsugu; Honda, Hisao; and Kawahara, Hideo, 4,693,916, Cl. 427-397.700.
Nakamura, Koichi; and Tanaka, Mitsuo, 4,699,263, Cl. 198-435.000.
Nishi, Hisami; and Toyama, Minoru, 4,668,053, Cl. 350-413.000.
Nishi, Hisami; and Toyama, Minoru, 4,668,055, Cl. 350-432.000.
Nishii, Junji; and Yamagishi, Takashi, 4,708,942, Cl. 501-40.000.
Okafuji, Masaharu; Ochi, Yoshinori; Miyake, Atsushi; Noguchi, Junichi; and Matsuo, Ichiro, 4,696,713, Cl. 156-358.000.
Samejima, Hiroshi; Hoshino, Akira; and Manabe, Seiichiro, 4,652,293, Cl. 65-134.000.
Tamenori, Hiroyuki; Hattori, Akihiko; and Yoshiyagawa, Mitsugi, 4,678,652, Cl. 423-339.000.
Yamamoto, Noboru; and Yamasaki, Tetsuya, 4,637,681, Cl. 350-96.120.
Yamasaki, Tetsuya; and Okuda, Eiji, 4,693,544, Cl. 350-96.160.
Yokoo, Sadao; Shimomura, Tadashi; Torisawa, Soichi; Dan, Masahiro; and Kaneda, Tsuyoshi, 4,634,270, Cl. 355-125.000.
Yoshizawa, Hideo, 4,678,495, Cl. 65-287.000.

Nippon Shiken Dental Co., Ltd.: *See*—
Ohtsuka, Masasuke; Harada, Yoshinori; Tokita, Shigeo; and Maniwa, Hideyo, 4,705,836, Cl. 526-318.100.

Nippon Shinyaku Co., Ltd.: *See*—
Aoyagi, Yoshiaki; Okubo, Takashi; Tomita, Toshio; Nishida, Hiroshi; and Enomoto, Hiroshi, 4,642,307, Cl. 514-252.000.
Enomoto, Hiroshi; Kawamata, Masanobu; Nomura, Akira; Aoyagi, Yoshiaki; and Ueda, Fusao, 4,657,907, Cl. 514-245.000.
Enomoto, Hiroshi; Kise, Masahiro; Ozaki, Masakuni; Kitano, Masahiko; and Morita, Iwao, 4,659,734, Cl. 514-255.000.
Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, 4,711,898, Cl. 514-312.000.
Ushimaru, Koichi; Nakamichi, Koichi; and Saito, Hitoshi, 4,702,918, Cl. 424-461.000.

Nippon Shokubai Kagaku Kogyo Co., Ltd.: *See*—
Fukuchi, Shuzo; and Yamaguchi, Shigeru, 4,691,045, Cl. 560-185.000.
Kaieda, Osamu; Awashima, Masaru; Okitaka, Isao; and Nakamura, Toshiaki, 4,684,734, Cl. 546-345.000.
Kaieda, Osamu; Hirota, Koichi; Itoh, Hideki; Awashima, Masaru; and Nakamura, Toshiaki, 4,689,179, Cl. 260-384.000.
Kitao, Teijiro; Matsuoka, Masaru; and Kaieda, Osamu, 4,647,411, Cl. 260-381.000.
Morimoto, Yutaka; Saotome, Minoru; and Komai, Atsushi, 4,696,760, Cl. 252-314.000.
Nakaki, Masashi; Terawaki, Katsumi; Shimomura, Tadao; and Kimura, Kazumasa, 4,656,232, Cl. 526-88.000.
Nakanishi, Yoshiyuki; Akazawa, Yoji; Kurimoto, Ikuo; Takahashi, Youjirou; Uchida, Shinichi; and Yoshikawa, Hisashi, 4,665,200, Cl. 549-239.000.
Nishibayashi, Hideyuki; Ito, Shigeyoshi; Watanabe, Fumio; and Goto, Takakiyo, 4,709,090, Cl. 562-537.000.
Ohata, Tomohisa; Terui, Sadao; and Shiraishi, Eiichi, 4,708,946, Cl. 502-304.000.
Sugiura, Shiro; Mori, Yoshikuni; Yoshida, Masatoshi; and Oshiumi, Ryoichi, 4,656,217, Cl. 524-430.000.
Suzuki, Takehiko; Osaka, Shigemi; and Aikawa, Norikazu, 4,664,894, Cl. 423-265.000.
Tamura, Fumihide; and Saotome, Minoru, 4,645,754, Cl. 502-527.000.
Tsubakimoto, Tsuneo; Fujikawa, Iwao; and Kushino, Mitsuo, 4,640,584, Cl. 350-344.000.
Tsubakimoto, Tsuneo; Shimomura, Tadao; and Irie, Yoshio, 4,666,983, Cl. 525-119.000.
Yamamoto, Shigehiro; Hashimoto, Terukuni; Kobayashi, Mitsuo; Iwaki, Tsugishige; Tamura, Katsushige; and Saijo, Hideo, 4,702,872, Cl. 264-114.000.

Nippon Signal Co., Ltd., The: *See*—
Futsuhara, Koichi, 4,661,880, Cl. 361-93.000.
Futsuhara, Koichi, 4,667,184, Cl. 340-507.000.
Hoshino, Takehiko, 4,658,364, Cl. 364-484.000.
Murata, Yasuzo; Yokoyama, Takeo; Wada, Hiroyuki; and Sakurai, Masaaki, 4,707,593, Cl. 235-487.000.

Nippon Silica Industrial Co., Ltd.: *See*—
Shiozawa, Hisao; and Matsuda, Kihachiro, 4,650,658, Cl. 423-462.000.

Nippon Soda Co., Ltd.: *See*—
Genda, Yoshikazu; Muro, Hiroyuki; Nakayama, Kiyoharu; Miyazaki, Yoshiaki; and Sugita, Yoshiji, 4,680,413, Cl. 548-526.000.
Ikura, Katsuyata; Hegiwara, Kenji; Nagasaki, Fumihiko; Yamada, Tomio; Takahashi, Hidemitsu; and Hatano, Renpei, 4,713,396, Cl. 514-594.000.
Yoshihara, Toshio; and Kikuchi, Ichiro, 4,636,908, Cl. 361-321.000.
Yuge, Yooji; Ishizaki, Ariyoshi; Saito, Tokuyoshi; and Ishii, Takeshi, 4,634,919, Cl. 313-113.000.

Nippon Soken, Inc.: *See*—
Akita, Shigeyuki; and Kago, Yoshiyuki, 4,673,913, Cl. 340-52.00R.
Akita, Shigeyuki, 4,714,827, Cl. 250-214.00C.
Atsumi, Morihiro; Nunogaki, Naochika; Ito, Novuei; and Mizuno, Naohito, 4,644,133, Cl. 219-270.000.
Egami, Tsuneyuki; Saito, Tsutomu; Kohama, Tokio; Saito, Kimitaka; Sato, Kunihiko; and Takahashi, Hiroshi, 4,635,200, Cl. 364-431.050.
Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,636,648, Cl. 250-571.000.
Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,682,041, Cl. 250-571.000.
Fukami, Akira; Oshiro, Takao; and Sasaya, Hideaki, 4,678,118, Cl. 237-12.30B.
Hashikawa, Atsushi; Kitagawa, Nozomi; and Kikuchi, Tetsuro, 4,704,999, Cl. 123-299.000.
Idogaki, Takaharu; Kawai, Hisasi; and Hayashi, Ikuo, 4,644,211, Cl. 310-266.000.
Idogaki, Takaharu; Kawai, Hisasi; Hattori, Kyo; and Sakurai, Kazuhiro, 4,647,009, Cl. 251-129.120.
Igashira, Toshihiko; Sakakibara, Yasuyuki; Abe, Seiko; Takigawa, Masahiro; and Izawa, Akihiro, 4,635,849, Cl. 239-102.200.
Igashira, Toshihiko; Tanaka, Taro; and Sakakibara, Yasuyuki, 4,649,886, Cl. 123-498.000.
Igashira, Toshihiko; Sakakibara, Yasuyuki; Yoshinaga, Toru; and Abe, Seiko, 4,649,887, Cl. 123-508.000.
Igashira, Toshihiko; Sakakibara, Yasuyuki; Takeuchi, Yasuhiro; Abe, Seiko; and Nohira, Hidetaka, 4,667,638, Cl. 123-446.000.
Ikeda, Hirotane; Hattori, Tadashi; Ohta, Minoru; and Mukainakano, Shinichi, 4,714,047, Cl. 118-724.000.
Imoto, Yuzo; Takei, Toshihiro; Hattori, Yoshiyuki; Uno, Haruhiko; Inagaki, Mitsuo; and Takeda, Kenji, 4,705,323, Cl. 303-116.000.
Ito, Novuei; Atsumi, Kinya; Yoshida, Hitoshi; and Atsumi, Morihiro, 4,634,837, Cl. 219-270.000.
Ito, Novuei; Nishida, Minoru; Mizuno, Naohito; and Hattori, Tadashi, 4,712,082, Cl. 338-4.000.
Ito, Seitoku; Iwashita, Shigeo; Kamiya, Sigeru; Noguchi, Hiroshi; and Mori, Nobuhisa, 4,633,706, Cl. 73-28.000.
Iwanami, Shigeki; Inagaki, Mitsuo; and Sasaya, Hideaki, 4,650,405, Cl. 418-5.000.
Kago, Yoshiyuki; and Sakakibara, Hiroyuki, 4,689,624, Cl. 342-117.000.
Kamiya, Sigeru; Kojima, Akikazu; and Sakakibara, Yasuyuki, 4,685,290, Cl. 60-274.000.
Kamiya, Sigeru; Nozawa, Masaei; Ishida, Toshinobu; and Sasaya, Hideaki, 4,699,509, Cl. 356-70.000.
Kanehara, Kenji; Huzino, Seizi; Miura, Kazuhiko; and Ohta, Minoru, 4,688,425, Cl. 73-204.000.
Kitamura, Sotoo; Akita, Shigeyuki; and Kago, Yoshiyuki, 4,684,943, Cl. 340-825.720.
Kobayashi, Toshiki; Fukami, Akira; Mizuno, Junzi; and Sasaya, Hideaki, 4,660,879, Cl. 296-1.00S.
Kodera, Masao; and Sasaki, Kunihiko, 4,667,195, Cl. 340-901.000.
Kondo, Kenji; Hattori, Tadashi; Atsumi, Kinya; and Nishida, Minoru, 4,675,662, Cl. 340-631.000.
Kuno, Akira; Matsumoto, Muneaki; and Numata, Koji, 4,672,565, Cl. 364-571.000.
Matsumoto, Muneaki; and Numata, Koji, 4,642,776, Cl. 364-449.000.
Matsumoto, Muneaki; Akita, Shigeyuki; and Kuno, Akira, 4,661,718, Cl. 307-10.00R.
Matsumoto, Muneaki; Kuno, Akira; and Numata, Koji, 4,663,719, Cl. 364-444.000.
Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,677,850, Cl. 73-204.000.
Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,682,496, Cl. 73-204.000.
Miura, Kazuhiko; Hattori, Tadashi; Iwasaki, Yukio; Kohama, Tokio; and Kanehara, Kenji, 4,693,116, Cl. 73-204.000.
Miyaki, Masahiko; and Egami, Tsuneyuki, 4,642,773, Cl. 364-431.050.
Mori, Satoshi; Egami, Tsuneyuki; Mori, Kouichi; Nohira, Hidetaka; and Yoshimura, Kunimasa, 4,661,695, Cl. 250-227.000.
Moritugu, Mitiyasu; Kawai, Hisasi; and Tokura, Norihito, 4,644,212, Cl. 310-317.000.
Nakamura, Takehiro; Sato, Susumu; Hattori, Tadashi; Nabeta, Teiichi; and Kato, Minoru, 4,678,921, Cl. 250-574.000.
Nishida, Minoru; Hattori, Tadashi; Yoshimura, Kunimasa; and Muraki, Tetsuzo, 4,695,758, Cl. 313-130.000.
Noguchi, Hiroki; Kobayashi, Toshiki; Fukami, Akira; Hattori, Tadashi; Sakakibara, Nobuyoshi; and Nabeta, Teiichi, 4,689,056, Cl. 55-138.000.
Numata, Koji; Tanaka, Hiroaki; and Kuno, Akira, 4,633,709, Cl. 73-178.00R.
Obayashi, Hideki; Kawai, Hisasi; Ina, Toshikazu; Shigematsu, Takashi; Tokoro, Setsuo; and Kohama, Tokio, 4,691,286, Cl. 364-431.040.
Ohta, Minoru; Miura, Kazuhiko; Onoda, Michitoshi; Iwasaki, Yukio; and Hattori, Tadashi, 4,705,713, Cl. 428-209.000.
Saito, Tsutomu; Egami, Tsuneyuki; Kohama, Tokio; Saito, Kimitaka; Takahashi, Hiroshi; and Sato, Kunihiko, 4,633,840, Cl. 123-489.000.
Sakakibara, Kazuo; Kuwakado, Satosi; Shimogawa, Toshiaki; Taguchi, Masahiro; Onimaru, Sadahisa; and Ina, Toshikazu, 4,669,780, Cl. 297-257.000.
Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, 4,643,745, Cl. 55-137.000.
Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, 4,673,416, Cl. 55-137.000.
Sakakibara, Yasuyuki; Abe, Seiko; Tomita, Masahiro; Yorita, Hiroshi; Tanaka, Takeshi; and Igashira, Toshihiko, 4,705,003, Cl. 123-449.000.

Sasaki, Kunihiko; Kodera, Masao; and Kuno, Akira, 4,694,296, Cl. 340-904.000.
Sasaki, Kunihiko; Kodera, Masao; Huzino, Seizi; and Tanaka, Takeshi, 4,700,127, Cl. 324-58.50C.
Taguchi, Takasi; Ueno, Yoshiki; and Hattori, Tadashi, 4,634,242, Cl. 350-588.000.
Taguchi, Takasi; Ueno, Yoshiki; and Hattori, Tadashi, 4,673,248, Cl. 350-166.000.
Takagi, Shigeru, 4,695,300, Cl. 55-485.000.
Takeda, Kenji; Inagaki, Mitsuo; Sasaya, Hideaki; and Matsui, Kazuma, 4,690,465, Cl. 303-119.000.
Takeuchi, Yasuhiro; Sakakibara, Yasuyuki; Igashira, Toshihiko; and Nohira, Hidetaka, 4,711,216, Cl. 123-447.000.
Tanaka, Hiroaki; and Akita, Shigeyuki, 4,638,249, Cl. 324-166.000.
Tashiro, Syuzaburo; Ina, Toshikazu; Taguchi, Masahiro; Onimaru, Sadahisa; Nakano, Osama; and Kuno, Akira, 4,707,788, Cl. 364-424.000.
Tokura, Norihito; Kawai, Hisasi; and Goto, Masahiro, 4,674,467, Cl. 123-644.000.
Tokura, Norihito; and Kawai, Hisasi, 4,677,378, Cl. 324-208.000.
Tokura, Norihito; Moritugu, Mitiyasu; and Kawai, Hisasi, 4,693,115, Cl. 73-204.000.
Tokura, Norihito; Kawai, Hisasi; Goto, Masahiro; Morino, Seiji; and Soumiya, Masato, 4,702,221, Cl. 123-606.000.
Toyama, Keiichiro; Kodera, Masao; and Sasaki, Kunihiko, 4,636,997, Cl. 367-140.000.
Tsuge, Noboru; Taguchi, Masahiro; Kuwakado, Satosi; and Kato, Kazutaka, 4,666,097, Cl. 242-55.000.
Ueno, Yoshiki; Taguchi, Takasi; and Hattori, Tadashi, 4,696,548, Cl. 350-338.000.
Yamamoto, Shinichi; Ito, Toshihiko; and Asano, Mitsuru, 4,640,454, Cl. 228-161.000.
Yoshino, Yasuhisa; and Osada, Masahiko, 4,691,361, Cl. 381-81.000.
Yoshino, Yasuhisa; Kago, Yoshiyuki; Sakakibara, Hiroyuki; and Shinoda, Yoshio, 4,706,195, Cl. 364-426.000.
Nippon Stainless Steel Co. Ltd.: *See*—
Kobayashi, Mineo; Yoshida, Takeshi; Aoki, Masahiro; Okubo, Masao; and Nagayama, Masaaki, 4,659,397, Cl. 148-12.00E.
Saito, Kiichi; Aoki, Masahiro; Ikeda, Noriyasu; Miki, Masayoshi; and Nagayama, Masaaki, 4,653,684, Cl. 228-263.150.
Nippon Steel Bolten Co., Ltd.: *See*—
Uno, Nobuyoshi; Isa, Takayoshi; Kurata, Eijiro; and Tamasaki, Hidetoshi, 4,659,267, Cl. 411-5.000.
Nippon Steel Chemical Co., Ltd.: *See*—
Okazaki, Hiroshi; Soeda, Mahito; Wada, Hiromu; and Onishi, Kiyotaka, 4,656,279, Cl. 546-150.000.
Yamada, Yasuharu; Komoto, Tadashi; and Koishi, Hidehiko, 4,672,401, Cl. 503-208.000.
Nippon Steel Corporation: *See*—
Aoyagi, Koshiro; Nishino, Taneharu; and Betsuki, Kenji, 4,685,319, Cl. 72-234.000.
Arima, Keizi; Ueda, Yujiro; Yoshida, Toru; and Narita, Hiroshi, 4,651,976, Cl. 266-44.000.
Endoh, Koichi; Kaneko, Toshiyuki; Yaoi, Hideo; Aso, Seiji; Obana, Yasuo; and Takahama, Hideyuki, 4,661,151, Cl. 75-53.000.
Fuji, Masahiro; Kamada, Minoru; and Matsubara, Shigeharu, 4,698,158, Cl. 210-610.000.
Fujii, Taisuke, 4,705,579, Cl. 148-142.000.
Gotoh, Michihiro; Fujimoto, Tsuyoshi; Komatsu, Nobiru; and Otsuki, Yuzo, 4,646,950, Cl. 222-591.000.
Hagiwara, Takeshi; Matsuo, Masataka; Tamehiro, Tanezoh; Tamehiro, Taizo; and Murakami, Kakuichi, 4,711,916, Cl. 523-223.000.
Harase, Jiro; Ohta, Kuniteru; Takeshita, Tetsurou; and Endo, Michio, 4,709,742, Cl. 164-76.100.
Higuchi, Seizun; Oga, Tomonari; Ikeda, Masao; and Nakano, Hirohumi, 4,713,301, Cl. 428-628.000.
Hirai, Hidefumi; Komiyama, Makoto; Hara, Susumu; and Wada, Keiichiro, 4,696,682, Cl. 55-68.000.
Ichida, Kozaburo; Nagira, Norichika; Murata, Mineo; and Namba, Tadashige, 4,704,167, Cl. 148-153.000.
Ishiyama, Kazuo; Yoshida, Masashi; Suzuki, Isao; Kudo, Ichiro; Otaki, Akira; and Okuyama, Noboru, 4,671,499, Cl. 266-275.000.
Iuchi, Tohru, 4,647,319, Cl. 148-128.000.
Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masatoshi; Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tamura, Yoshiaki; and Shimanuki, Takashi, 4,662,937, Cl. 75-80.000.
Kawano, Tsuyoshi; Sanagi, Shiroh; and Nakajima, Koe, 4,678,522, Cl. 148-12.00C.
Kikuma, Toshio; Matsumoto, Hiromi; Tagawa, Masayoshi; Kajiwara, Toshiyuki; Kimura, Tomoaki; Iida, Yoshihiko; and Yoshimoto, Kenichi, 4,700,312, Cl. 364-472.000.
Koyama, Toshihiro; Watanabe, Takahiro; Shiozaki, Hiroyuki; Kawanami, Takao; Takahashi, Hideo; Shiraishi, Toshiyuki; and Okudaira, Ken, 4,665,729, Cl. 72-8.000.
Kudou, Takenori, 4,695,042, Cl. 266-226.000.
Matsumura, Shoji; and Isonaga, Touichi, 4,681,662, Cl. 202-270.000.
Matsumura, Shoji; and Isonaga, Touichi, 4,683,031, Cl. 202-227.000.
Maeda, Shigeyoshi; Yamamoto, Masahiro; Omata, Hiroyasu; and Okada, Hideya, 4,692,191, Cl. 148-6.14R.
Maruoka, Kuniaki; Takahashi, Nobuyuki; Tujimura, Senkichi; Yamashita, Yasuhiko; Otsuka, Setsuo; Oohasi, Isao; and Motoyama, Takeo, 4,698,102, Cl. 148-2.000.
Matsuo, Masataka, 4,678,120, Cl. 239-75.000.
Minamida, Katsuhiro; Takafuji, Hideo; Haga, Hiroya; and Mizuhashi, Nobuo, 4,649,256, Cl. 219-121.0LD.
Miyoshi, Kunisuke; Shimoyama, Yoshiaki; and Kubota, Takeshi, 4,661,174, Cl. 148-111.000.
Miyoshi, Kunisuke; Shimoyama, Yoshiaki; and Kubota, Takeshi, 4,666,534, Cl. 148-111.000.
Murata, Toyo-o; Narita, Hiroshi; Shigeyama, Yukinori; and Nishikawa, Mazumi, 4,688,772, Cl. 266-158.000.
Mure, Hiroshi; Mizoguchi, Ryohei; Yokoi, Shinichi; Fujihara, Shigeru; and Ichikawa, Kaoru, 4,686,687, Cl. 373-22.000.
Nagai, Takaatsu; Takada, Masayuki; Sato, Akira; and Imamura, Mineo, 4,641,319, Cl. 373-84.000.
Nagai, Takaatsu; Takada, Masayuki; Sato, Akira; and Imamura, Mineo, 4,641,319, Cl. 373-84.000.
Oba, Hanji; Hyodo, Koji; Honda, Michiyasu; and Kameyama, Kazuhide, 4,658,882, Cl. 164-417.000.
Ogibayashi, Shigeaki; Yamada, Mamoru; Mukai, Tatsuo; Tezuka, Makoto; and Hirai, Masazumi, 4,687,047, Cl. 164-476.000.
Ohno, Jiro; and Yashiro, Hirokatsu, 4,641,036, Cl. 250-574.000.
Ohno, Jiro; and Yashiro, Hirokatsu, 4,641,083, Cl. 324-58.50B.
Sakai, Kango; and Shimokawa, Yasuo, 4,673,447, Cl. 148-156.000.
Sakamoto, Setsu; Nakagawa, Yasuhiro; Yamauchi, Isamu; Zaizen, Takashi; Suzuki, Katsumi; Shimamoto, Susumu; and Nakajima, Hideo, 4,675,156, Cl. 420-34.000.
Sato, Takashi; and Yamada, Toshio, 4,685,980, Cl. 148-304.000.
Seki, Masahiko; Nakatani, Hiroshi; Kogumasaka, Katsuya; Takao, Seiyu; Arimitsu, Isao; and Fujimori, Hisanori, 4,653,065, Cl. 373-80.000.
Shimazaki, Yasumi; Tsuyama, Yoshito; Haga, Hiroyo; and Hanzawa, Manabu, 4,645,893, Cl. 219-62.000.
Shindou, Yoshio; Oka, Joji; Taira, Taketoshi; Miyauchi, Yujiro; and Yamazaki, Fumio, 4,705,726, Cl. 428-562.000.
Shiraishi, Motoo; Tanaka, Mansei; Nakamura, Miroru; and Sato, Koichi, 4,659,255, Cl. 405-216.000.
Takafuji, Hideo, 4,684,293, Cl. 405-224.000.
Takahashi, Toshihiko; Tarui, Toshimi; and Sato, Hiroshi, 4,702,778, Cl. 148-12.00F.
Takashima, Kiyoshi; Suzuki, Isao; Yoshida, Masashi; Tanaka, Ryutatsu; Masumitsu, Noriyuki; Kinoshita, Kazuhiro; and Ishii, Hiromi, 4,686,081, Cl. 420-29.000.
Taketomo, Eiji; and Hara, Yukiaki, 4,671,809, Cl. 55-158.000.
Tsutsumi, Kazuhiko; Ohashi, Wataru; Ninomiya, Takeyoshi; and Temma, Masami, 4,660,617, Cl. 164-451.000.
Uno, Nobuyoshi; Isa, Takayoshi; Kurata, Eijiro; and Tamasaki, Hidetoshi, 4,659,267, Cl. 411-5.000.
Yamamoto, Yoshun; Okubo, Hitoshi; Watanabe, Yutaka; Uchiyama, Eizo; and Yasunaga, Yutaka, 4,697,446, Cl. 72-178.000.
Yoshida, Makoto; Tano, Kazuhiro; Higuchi, Seizun; and Nakamura, Masato, 4,683,245, Cl. 428-632.000.
Yoshida, Toru; Murata, Toyo-o; and Suga, Noriaki, 4,669,706, Cl. 266-44.000.
Yoshitomi, Yasunari; Kuroki, Katsuro; and Iwayama, Kenzo, 4,692,193, Cl. 148-111.000.
Yoshiwara, Seishiro; and Kawanami, Takao, 4,638,939, Cl. 228-186.000.
Nippon Suisan Kaisha, Ltd.: *See*—
Matsumoto, Tadao; and Inazuma, Sunao, 4,708,055, Cl. 99-484.000.
Nippon Tansan Gas Co., Ltd.: *See*—
Fumino, Ichiro, 4,694,850, Cl. 137-318.000.
Nippon Telecommunication Engineering Company: *See*—
Asano, Kiyomitsu; and Sakaida, Atsuo, 4,652,158, Cl. 400-124.000.
Sakaida, Atsuo; Kawaura, Masafumi; Chikaoka, Yasuji; Iwata, Hiroshi; and Asano, Kiyomitsu, 4,634,301, Cl. 400-124.000.
Nippon Telegraph and Telephone: *See*—
Matsumoto, Kazuhisa; Morishita, Hiroshi; Akai, Shinichi; and Miyazawa, Shintaro, 4,645,560, Cl. 156-607.000.
Nippon Telegraph & Telephone Corporation: *See*—
Enoki, Takatomo; Yamasaki, Kimiyoshi; and Ohwada, Kuniki, 4,694,564, Cl. 437-40.000.
Fukuda, Mitsutoshi; Fukutomi, Makoto; Kogure, Osamu; and Miyoshi, Kazunori, 4,690,887, Cl. 430-331.000.
Hasuda, Yoshinori; Sasaki, Shigekuni; and Ichino, Toshihiro, 4,666,760, Cl. 428-215.000.
Ise, Taichiro; Yamamoto, Kazuyuki; and Ogawa, Hiroyo, 4,700,348, Cl. 371-8.000.
Iwadate, Kazumi; and Harada, Katsuhiro, 4,699,870, Cl. 430-296.000.
Kakii, Toshiaki; Matsuno, Koichiro; Kawada, Osamu; Ito, Ryozo; and Nakamura, Eiji, 4,682,864, Cl. 350-511.000.
Kakii, Toshiaki; Matsuno, Koichiro; Suzuki, Shuzo; Ashiya, Fumihiro; and Ishihara, Koushi, 4,708,433, Cl. 350-96.220.
Kuwata, Yutaka; and Nerone, Louis R., 4,691,273, Cl. 363-132.000.
Matsuda, Tadahito; Harada, Katsuhiro; Moriya, Shigeru; and Ishii, Tetsuyoshi, 4,634,645, Cl. 430-30.000.
Matsumoto, Kazuhisa; Morishita, Hiroshi; Akai, Shinichi; and Miyazawa, Shintaro, 4,645,560, Cl. 156-607.000.
Matsumura, Tsuneo; Mano, Tsuneo; Yamada, Junzo; and Inoue, Junichi, 4,694,428, Cl. 365-189.000.
Miura, Kenji; Nakajima, Shigeru; Minegishi, Kazushige; Morie, Takashi; and Somatani, Toshifumi, 4,672,410, Cl. 357-23.600.
Miyoshi, Masato; Kaneda, Yutaka; and Ohga, Juro, 4,683,590, Cl. 381-71.000.
Nakajima, Shigeru; Minegishi, Kazushige; Miura, Kenji; Morie, Takashi; and Somatani, Toshifumi, 4,683,643, Cl. 437-203.000.
Ochi, Hiroshi; Tetsutani, Nobuji; Yamamoto, Tetsuji; Kitani, Shigehisa; and Watanabe, Asao, 4,698,688, Cl. 358-257.000.

Ogasawara, Fumihiro; and Sonehara, Noboru, 4,677,257, Cl. 178-4.000.
Okumura, Yasuyuki; and Hayashi, Kazuhiro, 4,682,327, Cl. 370-100.000.
Saitou, Norio; Ozasa, Susumu; Okumura, Masahide; Ooyama, Mitsuo; Komoda, Tsutomu; Harada, Katsuhiro; Fujinami, Minpei; and Iwadate, Kazumi, 4,692,579, Cl. 250-492.200.
Sakakibara, Kazuhiko; and Kuwata, Yutaka, 4,679,129, Cl. 363-17.000.
Sakuma, Kazuhito; Arita, Yoshinobu; Sato, Masaaki; and Awaya, Nobuyoshi, 4,660,068, Cl. 357-49.000.
Sakurai, Yoji; Hirai, Toshiro; Okada, Shigeto; Okada, Takeshi; Yamaki, Jun-ichi; and Ohtsuka, Hideaki, 4,675,260, Cl. 429-191.000.
Satoh, Hidetaka; Kurosawa, Hideyuki; Kamijoh, Yoshiaki; and Iyumonji, Hiromichi, 4,695,916, Cl. 361-56.000.
Seedhom, Bahaa B.; and Fujikawa, Kyosuke, 4,668,233, Cl. 623-13.000.
Shibui, Michiro; Hanamoto, Yoshihiro; Ishigaki, Yoshio; Sahara, Hiroshi; Maeda, Satoru; and Noguchi, Yasushi, 4,694,406, Cl. 364-518.000.
Takeno, Shozo; Shimizu, Toshio; and Saito, Takashi, 4,680,593, Cl. 346-76.0PH.
Takikawa, Kei; and Kanemaki, Hirofumi, 4,656,468, Cl. 340-744.000.
Tanaka, Akinobu; Morita, Masao; Imamura, Saburo; Tamamura, Toshiaki; and Kogure, Osamu, 4,702,990, Cl. 430-197.000.
Tanaka, Jouji; Watanabe, Tetunobu; Tanimoto, Yoshiji; and Okumura, Minoru, 4,641,337, Cl. 379-162.000.
Tanaka, Kinzi; Tagawa, Toru; Tanimoto, Yoshiji; and Okumura, Minoru, 4,660,219, Cl. 379-164.000.
Uchimura, Kuniharu; Kobayashi, Tsutomu; Iwata, Atushi; Hayashi, Toshio; and Kumura, Tadakatsu, 4,704,600, Cl. 340-347.0AD.

Nippon Telegraph & Telephone Public Corporation: *See*—
Akahori, Masaaki; and Watanabe, Hiroshi, 4,668,949, Cl. 340-825.470.
Akiya, Masahiro, 4,665,423, Cl. 357-23.100.
Fujii, Tsuneo; Inukai, Hiroshi; Deguchi, Takayuki; Amano, Toshihiko; Kakuchi, Masami; Asakawa, Hiroshi; and Kogure, Osamu, 4,686,168, Cl. 430-326.000.
Harafuji, Yoshihiko; Yamamoto, Hideki; and Yamamoto, Katsuhiko, 4,644,458, Cl. 363-65.000.
Ishihara, Koushi; Murakami, Yasuji; Yoshizawa, Nobuyuki; and Funaki, Kiyoshi, 4,684,213, Cl. 350-96.230.
Ishii, Osamu; Yoshimura, Fumikatsu; and Hatakeyama, Iwao, 4,642,245, Cl. 427-47.000.
Isobe, Minoru; Imai, Shuichi; Hiroki, Toru; Kodama, Tadasi; and Ohara, Waturu, 4,688,955, Cl. 400-248.000.
Kage, Kouzou; and Watanabe, Hiroshi, 4,635,298, Cl. 455-295.000.
Kawasaki, Akihisa; Tada, Kohji; Kotani, Toshihiro; and Miyazawa, Shintaro, 4,684,515, Cl. 423-495.000.
Kawasaki, Ryoji; Yoshizawa, Kazuhiro; Yotsutani, Akio; Saegusa, Noboru; Ito, Koichi; and Huse, Syozi, 4,679,244, Cl. 455-54.000.
Kimura, Takao; Inagaki, Nobuo; Yoshihara, Mitsuo; and Kato, Fumihiko, 4,639,080, Cl. 350-96.340.
Kobayashi, Kensuke; and Tazoh, Yasuo, 4,638,185, Cl. 307-352.000.
Kobayashi, Toshiaki; Sanada, Kazuo; Murayama, Toshiaki; Sugawara, Yasuyuki; Uesugi, Naoshi; and Ishihara, Koushi, 4,679,899, Cl. 350-96.300.
Kuroda, Hideo; Mukawa, Naoki; Hiraoka, Makoto; Mitsuda, Kiichi; Nishiwaki, Mitsuo; and Tsugane, Shuzo, 4,677,480, Cl. 358-136.000.
Maruno, Tooru; Nakamura, Kouzaburou; and Sasaki, Shigekuni, 4,637,939, Cl. 427-162.000.
Morie, Takashi; Minegishi, Kazushige; and Nakajima, Shigeru, 4,645,564, Cl. 156-643.000.
Nakai, Ryusuke; Takebe, Toshihiko; and Yamazaki, Hajime, 4,636,280, Cl. 156-603.000.
Okada, Ikuo; Saitoh, Yasunao; Yoshihara, Hideo; and Nakayama, Satoshi, 4,635,282, Cl. 378-34.000.
Okamoto, Yoshiharu; Horikawa, Izumi; and Komaki, Shozo, 4,710,975, Cl. 455-276.000.
Sumida, Shin; Murata, Hisashi; and Katsuyama, Yutaka, 4,659,215, Cl. 356-73.100.
Suzuki, Shuzo; Ogasawara, Ichiro; Yokota, Hiroshi; and Sumida, Shim, 4,653,852, Cl. 350-96.330.
Uchioke, Fumikiyo; Ogasawara, Ichiro; and Suzuki, Shuzo, 4,703,998, Cl. 350-96.230.
Une, Atsunobu; Iki, Makoto; Takeuchi, Nobuyuki; and Deguchi, Kimiyoshi, 4,656,347, Cl. 250-201.000.
Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.

Nippon Television Industry Corporation: *See*—
Mikado, Tsuneo, 4,654,711, Cl. 358-180.000.

Nippon Thompson Co., Ltd.: *See*—
Agari, Norimasa, 4,634,295, Cl. 384-44.000.
Geka, Toshiaki, 4,652,147, Cl. 384-43.000.
Geka, Toshiaki, 4,687,345, Cl. 384-44.000.
Hidano, Kengo, 4,654,940, Cl. 29-149.50R.
Kasai, Naomi, 4,692,037, Cl. 384-44.000.
Kasai, Naomi, 4,692,038, Cl. 384-45.000.
Kashiwabara, Yoshihiro, 4,701,057, Cl. 384-45.000.
Kawaguchi, Yoshifumi, 4,692,026, Cl. 384-44.000.
Kondo, Junji, 4,655,611, Cl. 384-45.000.
Morita, Kunihiko, 4,697,933, Cl. 384-12.000.
Mottate, Tatsuo, 4,647,226, Cl. 384-45.000.
Mottate, Tatsuo, 4,664,535, Cl. 384-55.000.
Mottate, Tatsuo, 4,701,058, Cl. 384-45.000.
Tanaka, Kazuhiko, 4,715,729, Cl. 384-44.000.
Watanabe, Hitoshi, 4,634,296, Cl. 384-45.000.
Watanabe, Hitoshi, 4,702,628, Cl. 384-580.000.
Yasui, Toru, 4,697,935, Cl. 384-47.000.
Yokota, Yasunori, 4,655,613, Cl. 384-49.000.
Yokota, Yasunori, 4,688,950, Cl. 384-44.000.
Yokota, Yasunori, 4,699,521, Cl. 384-18.000.
Yokota, Yasunori, 4,701,059, Cl. 384-49.000.

Nippon Unicar Company Ltd.: *See*—
Kotani, Kunio; Hayashi, Akio; and Taniguchi, Seiho, 4,648,986, Cl. 252-511.000.

Nippon Valqua Kogyo Kabushiki Kaisha: *See*—
Kawahigashi, Nobuo; Hashida, Shigesou; and Kojima, Yasunobu, 4,707,314, Cl. 264-127.000.
Nobuo, Kawahigashi; Shigesou, Hashida; and Yasunobu, Kojima, 4,710,331, Cl. 264-41.000.

Nippon Wave Guide Co., Ltd.: *See*—
Adachi, Masahiko; Ono, Isao; and Ikeda, Hiroaki, 4,672,328, Cl. 330-286.000.

Nippon Welding Rod Co., Ltd.: *See*—
Shin, Shigeo; Takatsu, Tamao; Suto, Teiichiro; Kikuchi, Akiyoshi; and Nakanishi, Tsuneo, 4,673,123, Cl. 228-263.130.

Nippon Yakin Kogyo Co., Ltd.: *See*—
Onoyama, Takashi; and Makino, Hiroshi, 4,647,511, Cl. 428-599.000.
Onoyama, Takashi; and Makino, Hiroshi, 4,705,656, Cl. 264-8.000.

Nippon Yusen Kaisha: *See*—
Yamada, Hideo; Ichiki, Shigemi; Naniwa, Hisamoto; Uchida, Susumu; Kadokura, Kenji; Tsunoda, Susumu; and Nakajima, Kunio, 4,674,127, Cl. 383-6.000.

Nippon Zeon Co., Ltd.: *See*—
Aonuma, Mitsuyoshi; Watanabe, Hiroyuki; Kawada, Haruki; Noguchi, Kohkichi; Ueda, Akio; Akita, Shuichi; Ohyama, Tetsuo; and Kase, Toshio, 4,647,625, Cl. 528-232.000.
Aonuma, Mitsuyoshi; Maeda, Akio; and Seya, Hirokatsu, 4,689,377, Cl. 525-523.000.
Hata, Kotaro; and Nakamura, Eitaro, 4,707,410, Cl. 428-413.000.
Horino, Hiroshi; Ohnaka, Michiro; Hayashi, Atsushi; and Ikeno, Yoshiko, 4,684,737, Cl. 549-240.000.
Joh, Yasushi, 4,668,459, Cl. 264-250.000.
Joh, Yasushi; and Nagase, Toshio, 4,707,315, Cl. 264-129.000.
Kadono, Hiromitsu; and Natsuume, Tadao, 4,652,621, Cl. 526-262.000.
Kadono, Hiromitsu; and Natsuume, Tadao, 4,675,359, Cl. 524-832.000.
Kikuchi, Yasushi; Kayama, Kazuyoski; Tokieda, Akinori; Watanabe, Hiroyuki; and Akita, Shuichi, 4,677,165, Cl. 525-332.900.
Kitahara, Shizuo; Hirokawa, Yoshitsugu; Kawada, Haruki; Fuji, Toshihiro; Sugi, Nagatoshi; Hasegawa, Hiroaki; and Yoshioka, Akira, 4,654,435, Cl. 560-61.000.
Kitahara, Shizuo; Hirokawa, Yoshitsugu; and Fuji, Toshihiro, 4,677,153, Cl. 524-552.000.
Kitahara, Shizuo; and Nakakawaji, Fujito, 4,704,427, Cl. 524-531.000.
Kobayashi, Toshiaki; Arakawa, Hiromichi; and Ohira, Tatsuo, 4,642,324, Cl. 524-559.000.
Maeda, Akio; Chida, Takeshi; and Seya, Hirokatsu, 4,694,067, Cl. 528-393.000.
Nakayama, Akira; Nakamura, Katsuya; Hata, Kotaro; and Yamamoto, Makoto, 4,707,411, Cl. 428-413.000.
Natsuume, Tadao; and Ueda, Tsunehisa, 4,652,435, Cl. 423-265.000.
Niina, Akihiko; Ohira, Tatsuo; and Miyamoto, Shigemi, 4,671,941, Cl. 422-131.000.
Ote, Masayuki; Ogawa, Satoshi; Sugimoto, Sadao; Yamazaki, Masahiro; and Fujino, Katsuhiro, 4,654,292, Cl. 430-197.000.
Oyama, Motofumi; Kubo, Yoichiro; and Honda, Toshiharu, 4,643,938, Cl. 428-268.000.
Oyama, Motofumi; Honda, Toshiharu; and Kubo, Yoichiro, 4,656,219, Cl. 524-481.000.
Tsuji, Takashi; Kobayashi, Shozo; and Nagase, Toshio, 4,636,196, Cl. 604-122.000.
Watanabe, Noboru; Kubo, Yoichiro; Nakagawa, Tsuyoshi; and Shimoda, Hideyoshi, 4,654,404, Cl. 525-315.000.
Yagishita, Shigeru; Hosoya, Kiyoshi; Okumoto, Tadaoki; and Sugimoto, Masatoshi, 4,650,834, Cl. 525-386.000.
Yamada, Toshiro; Fujisawa, Hiroshi; Goto, Kuniaki; Morimoto, Shigeo; Adachi, Takashi; and Watanabe, Yoshiaki, 4,668,776, Cl. 536-7.400.
Yamazaki, Masahiro; Iizuka, Shigeru; Kamiya, Shigemitsu; Oka, Yoshiro; and Fujino, Katsuhiro, 4,676,404, Cl. 222-56.000.

Nippon Zoki Pharmaceutical Co., Ltd.: *See*—
Ienaga, Kazuharu; and Nakamura, Ko, 4,647,574, Cl. 514-390.000.
Ienaga, Kazuharu; Nakamura, Ko; and Ishii, Akira, 4,683,240, Cl. 514-390.000.
Ienaga, Kazuharu; Nakamura, Ko; and Ishii, Akira, 4,708,954, Cl. 514-183.000.
Konishi, Jin-emon, 4,637,996, Cl. 514-11.000.

Nipponcoinco Co., Ltd.: *See*—
Kachi, Kenjiro; Onda, Hideaki; Hayashi, Yukichi; Yoshihara, Kenzo; Watabe, Masayuki; Akagawa, Masaki; and Mori, Yoshikazu, 4,658,125, Cl. 235-449.000.

ippondenso Co., Ltd.: *See*—
Akiyama, Susumu; Ito, Katsunori; Yamada, Toshitaka; Mizuno, Tiaki; and Kinugawa, Masumi, 4,669,306, Cl. 73-204.000.
Nakano, Yoshihisa; Ohira, Masatoshi; Ushida, Manabu; Miyagawa, Tomoyuki; and Shimodaira, Toshiya, 4,635,959, Cl. 280-707.000.
ippondenso Co., Ltd.: *See*—
Abe, Taizou; and Tsukahara, Kenji, 4,634,349, Cl. 417-219.000.
Abe, Tomoaki; Fujisawa, Hideya; Omori, Norio; Kinugawa, Masumi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; and Yamada, Toshitaka, 4,713,765, Cl. 364-431.050.
Akiyama, Susumu; Ito, Katsunori; Hirabayashi, Yuzi; Kinugawa, Masumi; and Omori, Norio, 4,671,242, Cl. 123-486.000.
Ando, Noriyoshi, 4,636,632, Cl. 250-221.000.
Ando, Noriyoshi; Mikuni, Hajime; Matsunaga, Mitsuru; Horie, Naoki; and Kishigami, Tomohisa, 4,682,228, Cl. 358-161.000.
Asai, Toshiyasu, 4,645,974, Cl. 315-50.000.
Asano, Hideo; Makida, Kazuhisa; and Fujiwara, Kenichi, 4,696,627, Cl. 418-15.000.
Atsumi, Morihiro; Nunogaki, Naochika; Ito, Novuei; and Mizuno, Naohito, 4,644,133, Cl. 219-270.000.
Fujiwara, Kenichi; Asano, Hideo; Hasada, Eiichi; Makida, Kazuhisa; and Iida, Akinori, 4,637,222, Cl. 62-244.000.
Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,669,827, Cl. 350-338.000.
Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,671,615, Cl. 350-331.00R.
Fukazawa, Takeshi; Kuno, Hironari; Okabe, Naoto; and Hara, Kunihiko, 4,653,443, Cl. 123-145.00A.
Fukui, Tomonori; and Ueno, Yukiyasu, 4,662,758, Cl. 356-439.000.
Haraguchi, Hiroshi, and Sakakibara, Koji, 4,699,106, Cl. 123-425.000.
Haraguchi, Hiroshi; and Sakakibara, Koji, 4,711,212, Cl. 123-425.000.
Hattori, Yoshiyuki; Nomura, Ken; Goshima, Takahiro; and Tanaka, Hitoshi, 4,705,492, Cl. 474-49.000.
Hattori, Yoshiyuki; Matsui, Kazuma; Imani, Yuichi; Kuno, Akira; Nagata, Tetsuya; Nakane, Koji; and Nomura, Ken, 4,715,663, Cl. 303-110.000.
Higuchi, Yohji; Matsuoka, Hiroshi; and Ishihara, Mikiya, 4,646,888, Cl. 192-8.00C.
Hirayama, Tsukasa; Takeuchi, Yukihisa; and Miura, Yasunao, 4,662,911, Cl. 55-282.000.
Hiroshi, Itoh, 4,664,479, Cl. 350-338.000.
Hishinuma, Osamu; Masuda, Akira; Ohmori, Toshihiko; Miyaki, Masahiko; and Takemoto, Eiji, 4,671,239, Cl. 123-458.000.
Hori, Makoto; Nomura, Etsuji; Niwa, Hitoshi; Mukai, Hirokatsu; and Tanaka, Toshiaki, 4,667,644, Cl. 123-549.000.
Hori, Makoto; Nagaya, Toshiatsu; Mukai, Hirokatsu; Niwa, Hitoshi; and Miwa, Naoto, 4,716,279, Cl. 219-541.000.
Hoshizaki, Hiroki; Suzuki, Hirofumi; Kageyama, Terutaka; and Oyobe, Kazuo, 4,652,727, Cl. 219-541.000.
Hoshizaki, Hiroki; Kawahara, Nobuaki; Suzuki, Hirofumi; and Oyobe, Kazuo, 4,711,990, Cl. 219-552.000.
Imamura, Tetsuo; and Yukawa, Yasuaki, 4,635,489, Cl. 74-7.00E.
Imoto, Yuzo; Takei, Toshihiro; Hattori, Yoshiyuki; Uno, Haruhiko; Inagaki, Mitsuo; and Takeda, Kenji, 4,705,323, Cl. 303-116.000.
Imoto, Yuzo; Wakata, Hideo; Takei, Toshihiro; and Hattori, Yoshiyuki, 4,714,296, Cl. 303-6.00C.
Ina, Katsuhiro; Sato, Yoshihisa; Kinugawa, Masumi; Suzuki, Atsushi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; Yamada, Toshitaka; and Abe, Tomoaki, 4,665,745, Cl. 73-204.000.
Inoue, Hidehiko; Kondo, Toshio; and Isomura, Shigenori, 4,646,698, Cl. 123-478.000.
Inukai, Kazuo; and Haluyama, Takeshi, 4,635,033, Cl. 340-52.00F.
Ishida, Hideo; Tanaka, Ryoichi; and Atsumi, Katsuhito, 4,700,172, Cl. 340-81.00R.
Ishihara, Nobuaki; Takei, Toshihiro; Hattori, Yoshiyuki; and Okazaki, Koji, 4,669,963, Cl. 418-65.000.
Ito, Novuei; Atsumi, Kinya; Yoshida, Hitoshi; and Atsumi, Morihiro, 4,634,837, Cl. 219-270.000.
Ito, Yuuji; Shibata, Tadahiko; Sakai, Masahiko; Ota, Yukio; Kondo, Naohiko; and Matuyama, Harukazu, 4,659,323, Cl. 493-457.000.
Itoh, Hiroshi; Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,669,825, Cl. 350-332.000.
Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,669,826, Cl. 350-331.00R.
Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,676,601, Cl. 350-331.00R.
Itoh, Hiroshi; Suzuki, Yasutoshi; Fukada, Tsuyoshi; Ohmi, Shinya; and Hara, Kunihiko, 4,687,956, Cl. 307-310.000.
Iwase, Takatoshi; and Nakagawa, Akira, 4,637,132, Cl. 29-726.000.
Iwata, Hiroshi; Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Koichi; Horiuchi, Yasuhiro; and Nakamura, Kanehito, 4,710,106, Cl. 417-213.000.
Jamai, Kenichiro, 4,640,253, Cl. 123-475.000.
Jamai, Kenichiro; and Kikuchi, Toshiaki, 4,653,453, Cl. 123-494.000.
Jamei, Eiichi; and Namba, Hideaki, 4,638,778, Cl. 123-339.000.
Jamei, Eiichi; Namba, Hideaki; Takao, Mitsunori; Ohba, Masahiro; Yonekawa, Masao; and Kiyono, Masashi, 4,653,449, Cl. 123-478.000.
Jamei, Eiichi; Namba, Hideaki; and Ohba, Masahiro, 4,693,485, Cl. 280-6.00R.
Jamiya, Hiroshi; Iguchi, Takeshi; and Fukumi, Shigenobu, 4,705,206, Cl. 228-183.000.
Kashima, Osamu; and Shibata, Masamichi, 4,658,774, Cl. 123-169.00E.
Katayama, Takeshi, 4,696,277, Cl. 123-479.000.
Kato, Hidetoshi; Mayumi, Nobuo; Kusase, Shin; and Matsuhashi, Hajime, 4,634,954, Cl. 322-28.000.
Kato, Hidetoshi; Maehara, Fuyuky; and Mayumi, Nobuo, 4,641,079, Cl. 320-64.000.
Kato, Masaaki; Kano, Hiroyuki; and Ohmori, Toshihiko, 4,676,214, Cl. 123-446.000.
Kawai, Motoshi; Yamamoto, Noboru; Mase, Katuhisa; Matsui, Takeshi; Mikino, Tomoatsu; Miyase, Yoshiyuki; Okuda, Ryoichi; and Suzumura, Koichi, 4,649,888, Cl. 123-609.000.
Kayakabe, Hiroshi; Mitomi, Masaei; Miyajima, Mikio; Nakata, Shuji; Shimizu, Tadashi; Yoshito, Kazuharu; and Nishiu, Masamichi, 4,677,021, Cl. 428-306.600.
Kazino, Sadayosi; and Yoshikawa, Naoki, 4,674,344, Cl. 74-7.00A.
Kiuchi, Hideo, 4,676,478, Cl. 251-129.080.
Kobayashi, Akihiro; Yamaguchi, Shunzo; Kobayashi, Kiyomi; and Takaba, Hiroaki, 4,639,712, Cl. 338-238.000.
Kobayashi, Akio; Harada, Susumu; Harada, Takashi; Kikuchi, Takehiro; and Honda, Masakazu, 4,663,717, Cl. 364-431.050.
Kobayashi, Kiyotaka; Tsukasaki, Hidaka; and Baba, Takaaki, 4,715,348, Cl. 123-571.000.
Kobayashi, Nobuyuki; Ito, Toshimitsu; Akatsuka, Takao; and Ninomiya, Masakazu, 4,651,700, Cl. 123-489.000.
Kodama, Katsuhiko; and Yamazoe, Hisamitsu, 4,640,257, Cl. 123-571.000.
Kondo, Ryoji, 4,699,600, Cl. 445-7.000.
Kondo, Toshio; Kobayashi, Akio; Hiromasa, Shunichiro; Masuda, Akira; and Miyaki, Masahiko, 4,649,745, Cl. 73-204.000.
Konishi, Yoshimune; Hobo, Nobuhito; Tsuzuki, Yoshihiko; Kameoka, Narutoshi; Miyaki, Masahiko; and Koide, Hiroshi, 4,653,454, Cl. 123-506.000.
Kosuge, Shuichi, 4,692,866, Cl. 364-424.100.
Kumazawa, Takahiro; Nakamura, Yoshihiro; and Yamaguchi, Yoshimitsu, 4,682,694, Cl. 209-559.000.
Kuraoka, Hiroaki, 4,708,777, Cl. 204-1.00T.
Kurose, Yoshio; and Tomochika, Tokitaka, 4,689,747, Cl. 364-449.000.
Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Kohichi; Matsui, Kazuma; and Iwata, Hiroshi, 4,652,215, Cl. 417-219.000.
Kusakawa, Yukio, 4,650,404, Cl. 417-440.000.
Maehara, Fuyuky; and Kato, Hidetoshi, 4,670,704, Cl. 322-8.000.
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,670,852, Cl. 364-565.000.
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,672,547, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,651,281, Cl. 364-426.000.
Masaki, Syouichi; and Nakashima, Noriyuki, 4,651,290, Cl. 364-550.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,665,490, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,666,218, Cl. 303-106.000.
Matsuda, Shigeki, 4,657,600, Cl. 148-6.15R.
Matsuda, Takeshi; Miyamoto, Masasi; and Takei, Toshihiro, 4,692,092, Cl. 415-143.000.
Matsui, Katsumasa; Ohba, Masahiro; Kakehi, Tohru; and Kawai, Takayoshi, 4,696,167, Cl. 62-180.000.
Matsui, Kazuma; Hattori, Yoshiyuki; Imani, Yuichi; Kuno, Akira; and Nomura, Yoshihisa, 4,687,260, Cl. 303-119.000.
Matsui, Takeshi; Takeda, Shunichi; and Makino, Tomoatsu, 4,638,785, Cl. 123-644.000.
Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.
Matsumoto, Muneaki; Akita, Shigeyuki; and Kuno, Akira, 4,661,718, Cl. 307-10.00R.
Matsumura, Toshimi; Hasegawa, Takashi; Hayakawa, Takahiro; Sumitani, Shinya; and Sakakibara, Shuji, 4,667,634, Cl. 123-357.000.
Matsumura, Toshimi; Osuka, Isao; and Masuda, Akira, 4,671,236, Cl. 123-357.000.
Matsumura, Toshimi; Sumitani, Shinya; Hayakawa, Takahiro; Hasegawa, Takashi; and Sakakibara, Shuji, 4,705,000, Cl. 123-357.000.
Matsuoka, Akio; Takagi, Masashi; Yoshimi, Akiro; and Nishizawa, Kazutoshi, 4,646,535, Cl. 62-228.500.
Minagawa, Kazuji, 4,688,420, Cl. 73-118.100.
Miura, Yasunao, 4,643,749, Cl. 55-523.000.
Miura, Yasunao; Yoshida, Hitoshi; Takeuchi, Yukihisa; and Ito, Kazuyuki, 4,670,304, Cl. 427-227.000.
Miyaki, Masahiko; and Egami, Tsuneyuki, 4,642,773, Cl. 364-431.050.
Miyaki, Masahiko; and Fujisawa, Hideya, 4,656,990, Cl. 123-494.000.
Mizuno, Tooru; Oosugi, Keizi; Esaki, Motoharu; and Ogawa, Takao, 4,682,287, Cl. 364-561.000.

Mizuno, Yoshikazu; Gonda, Katsumi; Ikuma, Akira; and Ochiai, Takeshi, 4,650,020, Cl. 180-176.000.
Mizuno, Yoshikazu; Ninoyu, Yutaka; Suzuki, Motoyoshi; and Ikuma, Akira, 4,658,150, Cl. 307-10.00R.
Morino, Seiji; Uno, Eiichi; and Yoshitani, Yoshihiro, 4,641,626, Cl. 123-620.000.
Muramatsu, Hiromochi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,671,617, Cl. 350-335.000.
Muramatsu, Toshihiko; Isomura, Shigenori; and Harada, Takashi, 4,706,196, Cl. 364-431.050.
Nagata, Masami; Yanase, Sumio; and Setaka, Yousuke, 4,641,066, Cl. 318-254.000.
Nakamura, Kanehito; Matsui, Kazuma; Kurahashi, Takashi; and Ishikawa, Hiroshi, 4,636,643, Cl. 250-338.000.
Nakamura, Kenzi; Honda, Akio; Inukai, Kazuo; and Ito, Yoshito, 4,636,782, Cl. 340-705.000.
Nakamura, Naotaka; Miyamoto, Yoshimi; Momiyama, Motokazu; Tsubai, Toshiji, deceased; Teratani, Tatsuo; and Ishihara, Nobuyuki, 4,652,705, Cl. 200-19.00R.
Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo; Yoshida, Ichirou; and Atsumi, Morihiro, 4,681,989, Cl. 200-19.00R.
Nakamura, Takehiro; Sato, Susumu; Hattori, Tadashi; Nabeta, Teiichi; and Kato, Minoru, 4,678,921, Cl. 250-574.000.
Nakashima, Noriyuki; Wakao, Teruyoshi; Tamura, Kimio; and Makino, Nobuhiko, 4,664,409, Cl. 280-707.000.
Nakashima, Toru; Inoue, Haruhiko; and Furuta, Sigeki, 4,700,177, Cl. 340-388.000.
Nakayama, Toshiaki; Kohama, Tokio; Okada, Isamu; and Yokoyama, Tamio, 4,702,940, Cl. 427-244.000.
Nanba, Sinzi; Matsui, Kazuma; Mizuno, Toru; and Goto, Tukasa, 4,696,193, Cl. 73-861.220.
Nara, Akio; Yazawa, Akio; and Akiyama, Yosinori, 4,651,702, Cl. 123-549.000.
Ninomiya, Masakazu, 4,640,254, Cl. 123-492.000.
Nishida, Minoru; Hattori, Tadashi; Yoshimura, Kunimasa; and Muraki, Tetsuzo, 4,695,758, Cl. 313-130.000.
Nishikawa, Takayoshi, 4,656,402, Cl. 318-341.000.
Nishizawa, Kazutoshi; Takagi, Masashi; and Matsuoka, Akio, 4,715,792, Cl. 417-295.000.
Nishizawa, Kazutoshi; Takagi, Masashi; Matsuoka, Akio; and Nomura, Fuzio, 4,715,800, Cl. 418-69.000.
Noguchi, Hiroki; Kobayashi, Toshiki; Fukami, Akira; Hattori, Tadashi; Sakakibara, Nobuyoshi; and Nabeta, Teiichi, 4,689,056, Cl. 55-138.000.
Nomura, Yoshihisa; Oka, Hiroyuki; and Otsuki, Hiromi, 4,640,558, Cl. 303-119.000.
Numata, Koji; Tanaka, Hiroaki; and Kuno, Akira, 4,633,709, Cl. 73-178.00R.
Obayashi, Hideki; Kawai, Hisasi; Ina, Toshikazu; Shigematsu, Takashi; Tokoro, Setsuo; and Kohama, Tokio, 4,691,286, Cl. 364-431.040.
Ohba, Masahiro; Sugimoto, Hiroshi; Kamiya, Toru; Yamazaki, Toru; Tanabe, Hidemichi; Hirano, Satoshi; Namba, Hideaki; Matsui, Katsumasa; and Miura, Hisahiro, 4,668,873, Cl. 307-9.000.
Ohmori, Toshihiko; Nakatsuka, Hirotaka; and Kanou, Hiroyuki, 4,653,448, Cl. 123-446.000.
Ohta, Hiromi; Ogawa, Shinji; Kajikawa, Yosiharu; Fukumura, Keiichi; Tsuchiya, Kiyomitsu; Kittaka, Kiyoshi; and Narita, Katsushi, 4,707,999, Cl. 62-474.000.
Okabe, Takahiro, 4,699,005, Cl. 73-505.000.
Okajima, Atushi; Yoshida, Hitoshi; Takeuchi, Yukihisa; and Fukutani, Masanori, 4,695,301, Cl. 55-523.000.
Onogi, Nobuyoshi; and Shimamoto, Mamoru, 4,681,082, Cl. 123-643.000.
Ooyabu, Shinji; Suzuki, Kazuo; Kondo, Masahiro; and Nakamura, Hirotoshi, 4,653,460, Cl. 123-645.000.
Ota, Kazuomi; Kato, Minoru; Narita, Seiichi; and Moriya, Mitutoshi, 4,649,282, Cl. 250-574.000.
Otsuki, Hiromi; Matsuura, Ryoichi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,685,749, Cl. 303-116.000.
Otsuki, Hiromi; Numata, Kenichi; Matsuura, Ryoichi; Nomura, Yoshihisa; Nakanishi, Nobuyasu; and Oka, Hiroyuki, 4,715,667, Cl. 303-119.000.
Sada, Takeshi; Kato, Hidetoshi; Shibata, Hiroshi; Mori, Kazumasa; Mayumi, Nobuo; Sato, Hirohide; Akita, Yoshio; and Tanaka, Shigeru, 4,665,354, Cl. 320-64.000.
Saito, Muneo; and Hayakawa, Shoichi, 4,673,921, Cl. 340-539.000.
Sakai, Tuguyasu; Namba, Hideaki; and Ohba, Masahiro, 4,639,871, Cl. 364-431.100.
Sakakibara, Koji; and Haraguchi, Hiroshi, 4,711,213, Cl. 123-425.000.
Sakakibara, Koji; Haraguchi, Hiroshi; and Yukumoto, Hideki, 4,711,214, Cl. 123-425.000.
Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, 4,673,416, Cl. 55-137.000.
Sakurai, Masao; Hamada, Yousuke; Ninomiya, Morimasa; Takechi, Toshihide; Nakagawa, Kunihiro; and Fujii, Takashi, 4,633,735, Cl. 74-675.000.
Sakurai, Takashi, 4,638,294, Cl. 340-63.000.
Sakurai, Takashi; Mizuno, Hiroshi; and Shibata, Yoshihisa, 4,651,085, Cl. 324-58.50R.
Sakurai, Takashi, 4,667,075, Cl. 219-10.55B.
Sasaki, Kunihiko; Kodera, Masao; and Kuno, Akira, 4,694,296, Cl. 340-904.000.
Sasakura, Hachirou; and Tsujimura, Masakuni, 4,690,122, Cl. 123-609.000.
Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; Suzuki, Atsushi; and Sugiura, Kengo, 4,680,964, Cl. 73-204.000.
Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Tbshitaka; Mizuno, Tiaki; and Suzuki, Atsushi, 4,683,858, Cl. 123-486.000.
Senda, Eiichi, 4,696,658, Cl. 464-112.000.
Shibata, Masahiro, 4,642,174, Cl. 204-408.000.
Shiozaki, Makoto; and Akahori, Ichiro, 4,708,111, Cl. 123-357.000.
Sogabe, Ichita; Murata, Shuuji; and Yokoya, Yuji, 4,647,010, Cl. 251-129.120.
Sogabe, Ichita; Murata, Syuuji; and Yokoya, Yuji, 4,691,135, Cl. 310-254.000.
Suzuki, Masahiko; Matsui, Kazuma; Moriguchi, Koichi; and Kuroyanagi, Masatoshi, 4,658,584, Cl. 60-450.000.
Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; Itoh, Hiroshi; and Hara, Kunihiko, 4,655,549, Cl. 350-331.00R.
Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,697,883, Cl. 350-331.00R.
Takagi, Kozi; Nomura, Ken; Hattori, Yoshiyuki; and Kamiya, Masahiko, 4,708,406, Cl. 303-115.000.
Takagi, Yoshito; Wakahara, Yasuyuki; Hamano, Satoru; Mori, Masanori; Hamaguchi, Masayuki; and Yoshikawa, Naoki, 4,673,838, Cl. 310-239.000.
Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi, 4,646,089, Cl. 340-995.000.
Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi, 4,675,676, Cl. 340-995.000.
Takao, Mitsunori, 4,677,955, Cl. 123-489.000.
Takao, Mitsunori, 4,708,109, Cl. 123-339.000.
Takeda, Hideto, 4,637,554, Cl. 239-585.000.
Takeda, Kenji; Inagaki, Mitsuo; Sasaya, Hideaki; and Matsu, Kazuma, 4,690,465, Cl. 303-119.000.
Takei, Toshihiro; Hattori, Yoshiyuki; and Nomura, Ken, 4,674,540, Cl. 137-625.650.
Takeo, Yuji; Yoshimi, Tomohisa; Shinoda, Yoshio; and Nomura, Ken, 4,674,230, Cl. 49-32.000.
Takeuchi, Hirotaka; Asai, Jiro; Yamada, Yasuhumi; and Yanase, Sumio, 4,701,692, Cl. 322-90.000.
Takeuchi, Yukihisa; and Takagi, Makoto, 4,711,795, Cl. 427-130.000.
Taki, Yoshihiro; Akado, Hajime; Funae, Keizo; and Inukai, Satoshi, 4,640,779, Cl. 210-493.500.
Tamura, Hiroshi; Nishibori, Kazuyoshi; Yamauchi, Yasutaka; and Kato, Katsushi, 4,683,859, Cl. 123-491.000.
Tashiro, Syuzaburo; Ina, Toshikazu; Taguchi, Masahiro; Onimaru, Sadahisa; Nakano, Osamu; and Kuno, Akira, 4,707,788, Cl. 364-424.000.
Tatukawa, Juniti; and Kirihara, Shozo, 4,701,654, Cl. 310-153.000.
Terada, Kanechiyo, 4,636,671.,Cl. 310-74.000.
Terada, Kanechiyo; Saga, Toshihiro; and Koizumi, Masahiro, 4,699,115, Cl. 123-604.000.
Tokura, Norihito; Kawai, Hisasi; Goto, Masahiro; Morino, Seiji; and Soumiya, Masato, 4,702,221, Cl. 123-606.000.
Tsukahara, Kengi; Matsui, Kazuma; Abe, Taizoh; and Suzuki, Masahiko, 4,697,991, Cl. 417-219.000.
Tsukahara, Kenji; and Abe, Taizou, 4,699,103, Cl. 123-304.000.
Tsukahara, Kenji; and Abe, Taizou, 4,711,616, Cl. 417-216.000.
Tsuru, Naohiko; Matsuura, Ryoichi; Otsuki, Hiromi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,636,009, Cl. 303-93.000.
Tsuzuki, Yukio; Yamaoka, Masami; and Toyoshima, Shoji, 4,680,608, Cl. 357-36.000.
Ueda, Masahiro; Hakamata, Kohei; and Tsuchiya, Seigo, 4,685,318, Cl. 72-185.000.
Usami, Kyohei; and Watanabe, Katsuhiko, 4,696,686, Cl. 55-158.000.
Wakabayashi, Hiroyuki; and Matsubara, Tamotsu, 4,711,806, Cl. 428-334.000.
Watanabe, Takashi; Tsuda, Nobuo; and Tomikawa, Inao, 4,701,613, Cl. 250-227.000.
Yamada, Manabu; Yoshida, Ichirou; Yamaguchi, Shunzo; and Atsumi, Morihiro, 4,713,582, Cl. 315-58.000.
Yamada, Yutaka, 4,693,269, Cl. 137-512.100.
Yamaguchi, Yoshimitsu; Shibata, Tadahiko; Suzuki, Masanori; and Toda, Takezi, 4,690,349, Cl. 242-75.500.
Yamamoto, Akinori; and Kurii, Masaaki, 4,649,398, Cl. 343-903.000.
Yamamoto, Noboru; Mase, Katsuhisa; Kawai, Motoshi; Miyase, Yoshiyuki; and Matsui, Takeshi, 4,658,788, Cl. 123-418.000.
Yamanaka, Yasutoshi; Ageishi, Kazunobu; and Izumida, Teruo, 4,638,856, Cl. 165-119.000.
Yamaoka, Masami; Tsuzuki, Yukio; and Toyoshima, Shoji, 4,672,402, Cl. 357-13.000.
Yamauchi, Yoshiyuki; Ohara, Toshio; and Takahashi, Toshio, 4,696,342, Cl. 165-152.000.
Yogo, Kazutoshi; and Wakata, Hideo, 4,703,823, Cl. 180-197.000.
Yogo, Kazutoshi; and Wakata, Hideo, 4,714,864, Cl. 318-52.000.
Yorinaga, Muneo; Yokoiwa, Sumiharu; and Yamaguchi, Hiroaki, 4,658,650, Cl. 73-654.000.

Yoshida, Hitoshi; Suzuki, Hirofumi; Oyobe, Kazuo; Nomura, Etsuji; Matsui, Kazuma; and Miwa, Naoto, 4,671,058, Cl. 60-303.000.

Yoshida, Ichirou; Atsumi, Morihiro; Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo; and Yamada, Manabu, 4,640,996, Cl. 200-19.00R.

Yoshino, Yasuhisa; Kago, Yoshiyuki; Sakakibara, Hiroyuki; and Shinoda, Yoshio, 4,706,195, Cl. 364-426.000.

Yukihisa, Takeuchi; Yasunao, Miura; and Tsukasa, Hirayama, 4,656,832, Cl. 60-303.000.

ppondenso Kabushiki Kaisha: *See*—
Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoto; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, 4,685,437, Cl. 123-549.000.

rasawa, Mitsuharu: *See*—
Seshimoto, Osamu; and Nirasawa, Mitsuharu, 4,707,243, Cl. 204-418.000.

rasawa, Mituharu: *See*—
Seshimoto, Osamu; Nirasawa, Mituharu; Terashima, Masaaki; and Saito, Yoshio, 4,684,445, Cl. 204-1.00T.

rdosh, Inderjit. Processes for extraction of uranium and radium from uranium-containing ores using ferric nitrate. 4,649,029, 3-10-87, Cl. 423-8.000.

rdosh, Inderjit; Baird, Malcolm H.; and Muthuswami, Sirugamani V. Processes for extracting radium from uranium mill tailings. 4,654,200, 3-31-87, Cl. 423-2.000.

ri, Hironori; and Tamagawa, Tsutomu, to Kabushiki Kaisha Toshiba. Air conditioner. 4,649,716, 3-17-87, Cl. 62-280.000.

enberg, Morris. Button delivery system for sewing machines. 4,690,077, 9-1-87, Cl. 112-113.000.

, Masaichi: *See*—
Ikeda, Kunihiko; Suzuki, Shigeru; Yokota, Takashi; Shimura, Akira; Kodama, Yutaka; Yamazaki, Shigeru; Niro, Masaichi; and Tomita, Satoru, 4,657,372, Cl. 355-3.00R.

schl, Heinrich; Kamp, Klaus; and Stummer, Baldur, to Siemens Aktiengesellschaft. Digital signal distributor. 4,639,909, 1-27-87, Cl. 370-58.000.

sana Espar Systems, S.A.: *See*—
Montandon, Daniel, 4,637,334, Cl. 114-106.000.
Montandon, Daniel, 4,712,500, Cl. 114-90.000.

sto, Dino; Crisafulli, Emilio; Bianchetti, Alberto; and Carminati, Paolo, to Sanofi. Anorectic agent; 4-(3-trifluoromethylphenyl)-1-(2-hydroxyethyl)-1,2,3,6-tetrahydropyridine. 4,691,019, 9-1-87, Cl. 546-330.000.

sto, Dino: *See*—
Martinez, Jean; Bali, Jean-Pierre; Castro, Bertrand; Nisato, Dino; and Demarne, Henri, 4,636,490, Cl. 514-15.000.

st, Louis J.: *See*—
Dingerdissen, John J.; Mehta, Rajanikant; Nisbet, Louis J.; Shearer, Marcia C.; and Wasserman, Gail F., 4,594,069, Cl. 530-317.000.

, Hidetoshi: *See*—
Kawata, Haruo; and Nishi, Hidetoshi, 4,642,879, Cl. 29-576.00B.

i, Hiroyoshi: *See*—
Morinaka, Yasuhiro; Iseki, Katsuhiko; Kanayama, Toshiji; Watanabe, Toshiaki; and Nishi, Hiroyoshi, 4,668,677, Cl. 514-248.000.

, Hisami; and Toyama, Minoru, to Nippon Sheet Glass Co., Ltd. Collimator lens. 4,668,053, 5-26-87, Cl. 350-413.000.

, Hisami; and Toyama, Minoru, to Nippon Sheet Glass Co., Ltd. Lens for an optical recording/reproducing apparatus and optical recording/reproducing apparatus using same. 4,668,055, 5-26-87, Cl. 350-432.000.

, Hisami: *See*—
Ichikawa, Hiroyuki; Nishi, Hisami; and Toyama, Minoru, 4,643,535, Cl. 350-413.000.

, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigetsu; and Okumura, Takatoshi, to Ascii Corporation; and Nippon Gakki Seizo Kabushiki Kaisha. Video display controller. 4,635,048, 1-6-87, Cl. 340-703.000.

, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigetsu; and Okumura, Takatoshi, to Ascii Corporation; and Nippon Gakki Seizo Kabushiki Kaisha. Video display processor. 4,660,070, 1-21-87, Cl. 358-11.000.

, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigetsu; and Okumura, Takatoshi, to Ascii Corporation; and Nippon Gakki Seizo Kabushiki Kaisha. Video display controller. 4,684,94?, 8-4-87, Cl. 340-703.000.

, Kazuhiko: *See*—
Takazawa, Naoki; Nishi, Kazuhiko; Kawakami, Naoya; Fujisawa, Yoshiaki; and Yamada, Noriyoshi, 4,706,470, Cl. 62-209.000.

, Kenji: *See*—
Ueda, Taro; Yahiro, Teruo; Yoshida, Hiroshi; Nishi, Kenji; Isobe, Takahisa; Kume, Yoichi; and Hamano, Hidenobu, 4,688,648, Cl. 175-242.000.

, Masahiro, to Kabushiki Kaisha Sakai Tokushu Camera Seisaku-sho. Bellows. 4,662,734, 5-5-87, Cl. 354-187.000.

, Masataka: *See*—
Endo, Toshinari; Takahashi, Yoshikazu; Nishi, Masataka; Shimamoto, Susumu; Aihara, Katsuzo; and Tada, Naofumi, 4,652,697, Cl. 174-128.00S.

, Masatsugu: *See*—
Uchiguchi, Yoshihiro; Hiramoto, Kazuo; Nishi, Masatsugu; and Takahashi, Fuminobu, 4,677,438, Cl. 342-22.000.
Uchiguchi, Yoshihiro; Takahashi, Fuminobu; Hiramoto, Kazuo; Nishi, Masatsugu; and Sonoda, Shinji, 4,706,031, Cl. 324-337.000.

Nishi, Okihiro, to Gyokusen Kosan Kabushiki Kaisha. Apparatus for aspirating lens cortex with vacuum creating device. 4,671,790, 6-9-87, Cl. 604-131.000.

Nishi, Setsuo: *See*—
Mochizuki, Hiroyuki; Kobayashi, Nobuo; Inuzuka, Yutaka; Aiba, Shigeo; and Nishi, Setsuo, 4,683,769, Cl. 74-422.000.

Nishi, Shinichi: *See*—
Arai, Kazuo; Nishi, Shinichi; Satoh, Taxey; Kawaguchi, Yasushi; and Mine, Kiyomitsu, 4,672,395, Cl. 346-135.100.

Nishi, Shoei. Artificial honeycomb for keeping honeybees and method for artificial beekeeping by use thereof. 4,663,791, 5-12-87, Cl. 6-11.000.

Nishi, Takao: *See*—
Uchida, Minoru; Nishi, Takao; and Nakagawa, Kazuyuki, 4,663,323, Cl. 514-227.000.

Nishi, Tatsunari: *See*—
Itoh, Seiga; Nishi, Tatsunari; Mizukami, Tamio; Matsumoto, Tadashi; Oka, Tetsuo; Taniguchi, Tadatsugu; and Sugano, Haruo, 4,686,191, Cl. 435-320.000.

Nishi, Tomoya; Amari, Mitsuhiro; and Suzuki, Kenji, to Hitachi, Ltd. Printer controller. 4,707,153, 11-17-87, Cl. 400-121.000.

Nishi, Toshiro; Murakami, Nobuaki; Ueda, Kenji; Shirakawa, Seiichi; Notomi, Akira; Hisamatsu, Kenichi; and Kaneko, Shozo, to Mitsubishi Jukogyo Kabushiki Kaisha. Solid electrolyte fuel cell and method for preparing it. 4,686,158, 8-11-87, Cl. 429-26.000.

Nishi, Yasuhiko: *See*—
Nomura, Hirokazu; Sato, Yukihiko; Morishige, Eiji; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,672,173, Cl. 219-125.100.
Nomura, Hirokazu; Sato, Yukihiko; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,686,341, Cl. 219-54.000.

Nishi, Yasunori: *See*—
Satoh, Eiji; Iwakura, Mararu; Kaminura, Hiroto; Nishi, Yasunori; and Kojima, Masamitsu, 4,699,530, Cl. 384-609.000.

Nishi, Yoshiro: *See*—
Aoyagi, Yoshiro; Kimura, Toshiyuki; Ninuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Keiichi; Haeno, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77.100.

Nishi, Yoshitsugu; and Daigo, Yukitaka, to Somar Corporation. Front plate of X-ray film cassette. 4,638,501, 1-20-87, Cl. 378-182.000.

Nishibayashi, Hideyuki; Iio, Shigeyoshi; Watanabe, Fumio; and Goto, Takakiyo, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Method of production of oxydicarboxylic acid salts. 4,709,090, 11-24-87, Cl. 562-537.000.

Nishibe, Masami: *See*—
Yamai, Yoshihiro; Hamamoto, Hideo; and Nishibe, Masami, 4,689,728, Cl. 362-268.000.

Nishibe, Shinji, to Kabushiki Kaisha Toshiba. LSI circuit with self-checking facilitating circuit built therein. 4,670,877, 6-2-87, Cl. 371-15.000.

Nishibe, Takashi: *See*—
Suzuki, Kiziro; Isoguchi, Seiichi; Watanabe, Koji; Yokoyama, Shotaro; and Nishibe, Takashi, 4,652,119, Cl. 356-1.000.
Suzuki, Kiziro; Tsutsumi, Takashi; Yokoyama, Shotaro; and Nishibe, Takashi, 4,668,084, Cl. 356-1.000.
Yokoyama, Shotaro; and Nishibe, Takashi, 4,640,613, Cl. 356-1.000.
Yokoyama, Shotaro; and Nishibe, Takashi, 4,659,205, Cl. 354-408.000.

Nishibori, Kazuyoshi: *See*—
Tamura, Hiroshi; Nishibori, Kazuyoshi; Yamauchi, Yasutaka; and Kato, Katsushi, 4,683,859, Cl. 123-491.000.

Nishida, Fumihiko; Shimizu, Yasumasa; Yoshida, Tomohiro; Urata, Makoto; Hotta, Tomiji; Mizuta, Masaji; and Yamashita, Hiroshi, to Dainippon Screen Mfg. Co., Ltd. One-way reducing and enlarging printer. 4,679,930, 7-14-87, Cl. 355-52.000.

Nishida, Fumihiko; Nanri, Seiji; and Yahata, Makoto, to Dainippon Screen Mfg. Co., Ltd. Contact printer for photosensitive materials. 4,714,947, 12-22-87, Cl. 355-95.000.

Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Pressure relief device for engine room of a small watercraft. 4,634,392, 1-6-87, Cl. 440-88.000.

Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Shell of small-sized marine craft. 4,635,580, 1-13-87, Cl. 114-343.000.

Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Apparatus for preventing a capsized boat from sinking. 4,635,582, 1-13-87, Cl. 114-360.000.

Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Water jet propelled craft. 4,643,685, 2-17-87, Cl. 440-42.000.

Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Internal combustion engine with apparatus responsive to shortage of coolant. 4,651,683, 3-24-87, Cl. 123-41.150.

Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Small-sized marine craft. 4,664,054, 5-12-87, Cl. 114-270.000.

Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Bottom protector for a small boat. 4,667,619, 5-26-87, Cl. 114-361.000.

Nishida, Hiroshi; Yamamoto, Fujio; Higashi, Mikio; and Naruse, Jun, to Hitachi, Ltd. Spindle assembly for magnetic disks. 4,677,509, 6-30-87, Cl. 360-97.000.

Nishida, Hiroshi; and Inoue, Takemi, to Kawasaki Jukogyo Kabushiki Kaisha. Method of fitting grip over handlebar and grip used in carrying the method into practice. 4,677,872, 7-7-87, Cl. 74-551.900.

Nishida, Hiroshi; and Yazaki, Mitsuhiro, to Kawasaki Jukogyo Kabushiki Kaisha. Apparatus responsive to shortage of coolant in an engine of a boat. 4,678,442, 7-7-87, Cl. 440-89.000.

Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Float device for small size boat. 4,679,522, 7-14-87, Cl. 114-357.000.
Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Small watercraft with asymmetrical bow portion. 4,681,058, 7-21-87, Cl. 114-271.000.
Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Small self-righting water craft. 4,683,829, 8-4-87, Cl. 114-125.000.
Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Small-sized marine craft with shell construction having hand grips. 4,688,508, 8-25-87, Cl. 114-362.000.
Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Small-sized marine craft with deck construction providing grips. 4,688,509, 8-25-87, Cl. 114-363.000.
Nishida, Hiroshi, to Kawasaki Jukogyo Kabushiki Kaisha. Boat with apparatus for returning to upright condition. 4,700,650, 10-20-87, Cl. 114-125.000.
Nishida, Hiroshi: *See*—
Aoyagi, Yoshiaki; Okubo, Takashi; Tomita, Toshio; Nishida, Hiroshi; and Enomoto, Hiroshi, 4,642,307, Cl. 514-252.000.
Harima, Hiroshi; and Nishida, Hiroshi, 4,677,680, Cl. 382-1.000.
Sugita, Ryuji; Honda, Kazuyoshi; Nishida, Hiroshi; and Noda, Kyoji, 4,687,712, Cl. 428-611.000.
Nishida, Hisato; and Kondo, Tadami, to Honda Giken Kogyo Kabushiki Kaisha. Torsional vibration absorbing system for vehicular power transmission. 4,674,347, 6-23-87, Cl. 74-359.000.
Nishida, Isamu: *See*—
Odagiri, Hiroshi; and Nishida, Isamu, 4,690,568, Cl. 368-204.000.
Nishida, Jun: *See*—
Tomii, Kaoru; Miyama, Hiroshi; Kawauchi, Yoshikazu; and Nishida, Jun, 4,703,231, Cl. 315-366.000.
Nishida, Keijiro: *See*—
Kamiya, Osamu; Nishida, Keijiro; Fujiyama, Yasutomo; and Ogawa, Kyosuke, 4,666,734, Cl. 427-39.000.
Nishida, Koji: *See*—
Hino, Kenichi; Yamauchi, Junichi; and Nishida, Koji, 4,668,712, Cl. 522-13.000.
Takahashi, Hiroshi; Kakizaki, Tetsuji; Kato, Mitsuyoshi; and Nishida, Koji, 4,702,554, Cl. 350-96.300.
Nishida, Kouji; Hayashi, Chikahisa; and Kanai, Makoto, to Aisin Seiki Kabushiki Kaisha; and Toyoda Gosei Co., Ltd. Land mobile telephone system. 4,647,722, 3-3-87, Cl. 379-63.000.
Nishida, Kozi: *See*—
Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Kushi, Kenji, 4,689,243, Cl. 427-54.100.
Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Yamamoto, Takashi, 4,693,553, Cl. 350-96.340.
Nishida, Mamoru: *See*—
Asakuno, Hiroyoshi; Mori, Kinya; Suzuki, Kiyoaki; Nishida, Mamoru; Iwai, Kenji; Tamamushi, Masahiro; and Kawasaki, Teruo, 4,638,030, Cl. 524-536.000.
Nishida, Masami: *See*—
Murakami, Tokumichi; Itoh, Atsushi; Asai, Kohtaro; Kamizawa, Koh; and Nishida, Masami, 4,710,812, Cl. 358-136.000.
Nishida, Masamitsu: *See*—
Yokotani, Yoichiro; Kato, Junichi; Nishida, Masamitsu; Kawashima, Syunichiro; and Ouchi, Hiromu, 4,711,862, Cl. 501-136.000.
Nishida, Masashi: *See*—
Orii, Koichi; Nishida, Masashi; Yagi, Junsuke, and Ohshima, Iwao, 4,683,128, Cl. 423-338.000.
Yamaguchi, Yasumasa; and Nishida, Masashi, 4,701,558, Cl. 564-127.000.
Nishida, Masayuki: *See*—
Fukushima, Tsunekazu; Emoto, Hiroshi; Kagitani, Yoshio; Yokoyama, Kazumasa; Nishida, Masayuki; and Suyama, Tadakazu, 4,687,762, Cl. 514-34.000.
Nishida, Minoru; Hattori, Tadashi; Yoshimura, Kunimasa; and Muraki, Tetsuzo, to Nippondenso Co., Ltd.; Toyota Jidosha Kabushiki Kaisha; and Nippon Soken, Inc. Small-sized spark plug having a spark gap parallel to an axis running through the center electrode. 4,695,758, 9-22-87, Cl. 313-130.000.
Nishida, Minoru: *See*—
Honma, Toshio; Nishida, Minoru; and Yamauchi, Kiyoshi, 4,707,196, Cl. 148-12.70N.
Ito, Novuei; Nishida, Minoru; Mizuno, Naohito; and Hattori, Tadashi, 4,712,082, Cl. 338-4.000.
Kondo, Kenji; Hattori, Tadashi; Atsumi, Kinya; and Nishida, Minoru, 4,675,662, Cl. 340-631.000.
Satoh, Susumu; Suzuki, Hideo; Obara, Takashi; Nishida, Minoru; and Hashimoto, Osamu, 4,708,748, Cl. 148-2.000.
Nishida, Mitsuhiro: *See*—
Yamamoto, Sakuei; and Nishida, Mitsuhiro, 4,651,039, Cl. 310-87.000.
Nishida, Reizirо: *See*—
Tominaga, Akira; and Nishida, Reizirо, 4,710,561, Cl. 528-111.000.
Nishida, Shigeo: *See*—
Kokubo, Masaru; Nishida, Shigeo; and Yamakido, Kazuo, 4,672,361, Cl. 340-347.0AD.
Nishida, Soji; and Miyake, Nobuhiko, to Nippon Seiko Kabushiki Kaisha. Expansion compensating bearing. 4,696,587, 9-29-87, Cl. 384-536.000.
Nishida, Sumio: *See*—
Kisida, Hiroshi; Nishida, Sumio; and Hatakoshi, Makoto, 4,714,706, Cl. 514-345.000.
Matsuo, Noritada; Tsushima, Kazunori; Nishida, Sumio, and Yano, Toshihiko, 4,714,712, Cl. 514-531.000.
Nishida, Takao; Hiyama, Toru; Moriwaki, Kaoru; Ishiyama, Shun; and Miyamoto, Shunsuke, to Hitachi, Ltd. Logic circuit having a test data scan circuit. 4,703,257, 10-27-87, Cl. 324-73.00R.
Nishida, Takashi *See*—
Homma, Yoshio; and Nishida, Takashi, 4,710,398, Cl. 437-235.000.
Ibata, Koichi, Takigawa, Tetsuo; Okada, Masafumi; Mizuno, Masao; and Nishida, Takashi, 4,668,820, Cl. 560-248.000.
Kanehira, Koichi; Shiono, Manzo; Fujita, Yoshiji; Nishida, Takashi; and Yamahara, Johji, 4,681,890, Cl. 514-333.000.
Ohnishi, Takashi; Suzuki, Shigeaki; Fujita, Yoshiji; and Nishida, Takashi, 4,659,510, Cl. 252-522.00R.
Shiono, Manzo; Fujita, Yoshiji; and Nishida, Takashi, 4,694,090, Cl. 549-407.000.
Nishida, Takeshi; Sano, Jyunji; and Nonaka, Toyokazu, to Kanebo Ltd. and Kanebo Textile, Ltd. Heat retaining clothing. 4,646,366, 3-3-87, Cl. 2-108.000.
Nishida, Takumi; Nomoto, Yoshitaka; Sahara, Masanori; and Yamauchi, Hirofumi, to Mazda Motor Corp. Fuel injection system for diesel engine. 4,669,429, 6-2-87, Cl. 123-179.00L.
Nishida, Takumi: *See*—
Nakamura, Saburo; Sakurai, Shigeru; Nishida, Takumi; and Sahara, Masanori, 4,682,576, Cl. 123-179.00A.
Nishida, Tetsuya: *See*—
Terao, Motoyasu; Nishida, Tetsuya; Ohta, Yasuhiro; Horigome, Shinkichi; and Miyauchi, Yasushi, 4,668,573, Cl. 428-336.000.
Nishida, Yasukuni: *See*—
Miyahara, Tsuneo; Harada, Yoshihiro; Futakami, Katsuyuki; Nishida, Yasukuni; and Konishi, Ryoko, 4,693,888, Cl. 424-49.000.
Nishida, Yoshie; Hata, Seiji; and Miyakawa, Akira, to Hitachi, Ltd. Posture judgement system in image processing. 4,680,802, 7-14-87, Cl. 382-8.000.
Nishida, Yoshihiro: *See*—
Ookawa, Katsuhiro; Fuji, Toshifumi; and Nishida, Yoshihiro, 4,691,251, Cl. 360-14.100.
Nishida, Yoshio: *See*—
Mizoguchi, Yoshihiko; Sekine, Keiichi; Komiya, Yasutoyo; and Nishida, Yoshio, 4,657,142, Cl. 206-606.000.
Nishida, Yuji; Kamiyama, Yoshiyasu; and Okuno, Koichi, to Nitto Electric Industrial Co., Ltd. Membrane separation apparatus. 4,640,773, 2-3-87, Cl. 210-321.100.
Nishida, Yukio: *See*—
Nomura, Etuzo; Sakakibara, Yasuo; Kozawa, Tetsuo; Nishida, Yukio; and Kondo, Ikuzo, 4,712,497, Cl. 112-315.000.
Nishigaki, Masahide: *See*—
Uno, Kunihiko; Nakazato, Kunihiro; Nishigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mihara, Jiro; and Takai, Kiyoaki, 4,639,927, Cl. 373-84.000.
Nishigaki, Satoshi; Itoh, Masataka; and Katoh, Shohichi, to Sharp Kabushiki Kaisha. Large scale contact type image reading unit using two-dimensional sensor array. 4,644,406, 2-17-87, Cl. 358-213.000.
Nishigaki, Satoshi: *See*—
Kita, Ryusuke; Nishigaki, Satoshi; and Tsuchimoto, Shuhei, 4,701,997, Cl. 437-5.000.
Nishigaki, Shinichi: *See*—
Shishido, Yoshio; Takahashi, Susumu; Matsuo, Kazumasa; Miyazaki, Atsushi; Nishigaki, Shinichi; Kato, Shinichi; Nakamura, Takeaki; and Ishikawa, Akibumi, 4,711,999, Cl. 250-204.000.
Nishigaki, Susumu; Fukuda, Junzo; Fukaya, Masashi; and Yano, Shunsuke, to Narumi China Corporation. Ceramic article having a high moisture proof. 4,650,923, 3-17-87, Cl. 174-68.500.
Nishiguchi, Fumio; Noguchi, Masato; and Hatanaka, Keiji, to Nissan Motor Co., Ltd. Variable capacity turbocharger control device. 4,679,398, 7-14-87, Cl. 60-602.000.
Nishiguchi, Fumio: *See*—
Komatsu, Hiroshi; and Nishiguchi, Fumio, 4,678,397, Cl. 415-151.000.
Nishiguchi, Ikuzo: *See*—
Inoue, Hiroshige; Fukushima, Kenichi; and Nishiguchi, Ikuzo, 4,634,768, Cl. 544-151.000.
Nishiguchi, Masayuki: *See*—
Akagiri, Kenzo; and Nishiguchi, Masayuki, 4,685,115, Cl. 375-25.000.
Nishiguchi, Takashi: *See*—
Kondou, Masakazu; and Nishiguchi, Takashi, 4,662,801, Cl. 407-119.000.
Nishiguchi, Yasuo, to Kyocera Corporation; and Kawamura, Takao. Electrophotographic sensitive member suitable for coherent beams and method of producing same. 4,654,285, 3-31-87, Cl. 430-69.000.
Nishiguchi, Yasuo; Yasutomi, Tsuyoshi; and Shiraishi, Ryoichi, to Kyocera Corporation. Thermal head for heat-sensitive recording. 4,691,210, 9-1-87, Cl. 346-76.0PH.
Nishiguchi, Yasuo; Yasutomi, Tsuyoshi; and Shiraishi, Ryoichi, to Kyocera Corporation. Serial type thermal head. 4,698,643, 10-6-87, Cl. 346-76.0PH.
Nishiguchi, Yasuo; Minami, Keijirou; and Hoda, Masakazu, to Kyocera Corporation. Thermal head and method for fabrication thereof. 4,701,769, 10-20-87, Cl. 346-76.0PH.
Nishiguchi, Yasuo; Minami, Keijirou; and Hoda, Masakazu, to Kyocera Corporation. Electron beam formation of a thermal head using titanium silicide. 4,705,697, 11-10-87, Cl. 427-36.000.
Nishiguchi, Yasuo: *See*—
Kawamura, Takao; Iwano, Hideaki; Miyamoto, Naooki; and Nishiguchi, Yasuo, 4,666,808, Cl. 430-65.000.
Kawamura, Takao; Iwano, Hideaki; Miyamoto, Naooki; and Nishiguchi, Yasuo, 4,675,264, Cl. 430-65.000.

Kawamura, Takao; Ejima, Keibun; Miyamoto, Naooki; Higuchi, Hisashi; and Nishiguchi, Yasuo, 4,689,284, Cl. 430-84.000.

Ogawa, Motokazu; Nishiguchi, Yasuo; and Minami, Keijiro, 4,708,915, Cl. 428-698.000.

Tajiri, Hiromitsu; Nishiguchi, Yasuo; and Matsuyama, Chiaki, 4,652,767, Cl. 250-578.000.

Nishihama, Takamichi; Okada, Kotaro; and Kadota, Shigekazu, to Dainippon Screen Mfg. Co., Ltd. Apparatus for securing a photosensitive sheet. 4,695,044, 9-22-87, Cl. 269-21.000.

Nishihara, Eitaro, to Tokyo Shibaura Denki Kabushiki Kaisha. View interpolation in a tomography system using pipe line processing. 4,682,289, 7-21-87, Cl. 364-414.000.

Nishihara Environmental Sanitation Research Corporation Limited: *See*—
Saito, Toshio; Yukawa, Kazuo; and Suzuki, Tomio, 4,661,845, Cl. 358-99.000.
Tabata, Shin-ichi; Suzuki, Tomio; Hamamoto, Youichi; Hayakawa, Noboru; and Watanabe, Kaoru, 4,655,925, Cl. 210-605.000.

Nishihara, Kazue: *See*—
Wada, Mitsuo; and Nishihara, Kazue, 4,685,349, Cl. 74-479.000.

Nishihara, Kunio: *See*—
Sasagawa, Katsuyoshi; Nishihara, Kunio; Ozawa, Hiroshi; and Imai, Masao, 4,707,425, Cl. 430-21.000.

Nishihara, Mikio: *See*—
Kuwabara, Kiyoshi; Nishihara, Mikio; and Tsunoi, Kazuhisa, 4,675,789, Cl. 361-414.000.
Matsumoto, Masaru; Nishihara, Mikio; and Kuwabara, Kiyoshi, 4,692,843, Cl. 361-414.000.

Nishihara, Motohisa: *See*—
Masuda, Ikuro; Iwamura, Masahiro; and Nishihara, Motohisa, 4,661,723, Cl. 307-446.000.
Shinada, Satoshi; Kawakami, Kanji; Tadauchi, Masaharu; and Nishihara, Motohisa, 4,689,652, Cl. 357-30.000.

Nishihara, Sadamitsu; and Sawada, Katsuhide, to Mitutoyo Mfg. Co., Ltd. Edge detecting device in optical measuring instrument. 4,652,738, 3-24-87, Cl. 250-202.000.

Nishihara, Sadamitsu, to Mitutoyo Mfg. Co., Ltd. Edge detecting device in optical measuring instrument. 4,652,765, 3-24-87, Cl. 250-560.000.

Nishihara Shokai Co., Ltd.: *See*—
Kohashi, Narahisa, 4,667,689, Cl. 453-58.000.

Nishihara, Tokihiro: *See*—
Kume, Hisao; Nishihara, Tokihiro; Shirasaka, Hiroharu; Kanchira, Kenichi; and Saita, Koji, 4,682,965, Cl. 445-37.000.

Nishihara, Toshikazu: *See*—
Ando, Toshio; Nishihara, Toshikazu; and Kimura, Akihiro, 4,711,810, Cl. 428-336.000.
Kimura, Akihiro; Ando, Toshio; Nishihara, Toshikazu; and Kato, Toshio, 4,664,976, Cl. 428-336.000.
Kimura, Akihiro; Ando, Toshio; and Nishihara, Toshikazu, 4,680,218, Cl. 428-195.000.

Nishihara, Toshio: *See*—
Yatabe, Toshiaki; Nishihara, Toshio; and Suzuki, Nobuo, 4,639,069, Cl. 350-1.700.

Nishihashi, Junichi: *See*—
Minakawa, Takao; Shiono, Shigeo; and Nishihashi, Junichi, 4,682,003, Cl. 219-121.0LN.

Nishihata, Toshiaki; Kamada, Akira; and Wada, Hisayo, to R. P. Scherer Corporation. Suppositories containing analgesics, antipyretics or anti-inflammatory agents. 4,699,776, 10-13-87, Cl. 424-16.000.

Nishii, Kazuhiko: *See*—
Sato, Toshiaki; Mori, Hisako; Horio, Yashuhiko; Tabuchi, Kastumi; Matsumoto, Nobuo; and Nishii, Kazuhiko, 4,712,160, Cl. 361-388.000.

Nishii, Kota: *See*—
Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; and Nishii, Kota, 4,657,843, Cl. 430-323.000.
Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; Nishii, Kota; and Matsuura, Azuma, 4,670,299, Cl. 427-96.000.

Nishii, Masahiro: *See*—
Takematsu, Tetsuo; Nishii, Masahiro; and Kobayashi, Izumi, 4,680,054, Cl. 71-93.000.

Nishii, Michiharu; Furuta, Youichi; Tsubouchi, Kaoru; Murata, Takeo; Shibatani, Juichi; and Kiriyama, Takashi, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Vacuum brake booster assembly. 4,683,807, 8-4-87, Cl. 92-169.000.

Nishii, Shigetoshi; Matsuoka, Toshimitsu; Tsuchida, Toshio; and Matsuoka, Atsushi, to Nissan Motor Co., Ltd. License plate mounting device in front bumper. 4,657,296, 4-14-87, Cl. 296-1.00C.

Nishii, Takeshi: *See*—
Nishimori, Shoji; and Nishii, Takeshi, 4,644,115, Cl. 200-67.00D.
Nishii, Junji; and Yamagishi, Takashi, to Nippon Sheet Glass Co., Ltd. Halogenide glass. 4,708,942, 11-24-87, Cl. 501-40.000.

Nishike, Ujihiro; Komatsubara, Michiro; Iida, Yoshiaki; and Matoba, Ryo, to Kawasaki Steel Corporation. Grain-oriented silicon steel sheet having a low iron loss free from deterioration due to stress-relief annealing and a method of producing the same. 4,655,854, 4-7-87, Cl. 148-111.000.

Nishima, Akio: *See*—
Miyazaki, Yuji; Nishijima, Akio; and Kawanami, Kiyomiki, 4,664,900, Cl. 423-447.300.

Nishima, Hideo; Ito, Takayasu; and Fukushima, Isao, to Hitachi, Ltd. Switching regulator system for a motor driving circuit. 4,682,096, 7-21-87, Cl. 318-808.000.

Nishijima, Hideo; Okamoto, Kaneyuki; Ito, Takayasu; and Toyoshima, Shuji, to Hitachi, Ltd. Address code inserting system for video tape recording apparatus. 4,707,749, 11-17-87, Cl. 360-14.300.

Nishijima, Hideo: *See*—
Higashi, Housei; Terayama, Takao; Nishijima, Hideo; and Nakamura, Hiroshi, 4,675,752, Cl. 360-10.300.
Ito, Takayasu; Nishijima, Hideo; Fukushima, Isao; Fujimori, Yoshio; and Kobori, Yasunori, 4,651,067, Cl. 318-254.000.

Nishijima, Hirotaka: *See*—
Ujihara, Hiroshi; Nishijima, Hirotaka; Ugawa, Satoru; Kinoshita, Tomotaka; and Obushi, Satoshi, deceased, 4,669,222, Cl. 49-374.000.

Nishijima, Kanji: *See*—
Ishikawa, Katsukiyo; Nishijima, Kanji; and Seio, Mamoru, 4,671,854, Cl. 156-659.100.
Ishikawa, Katsukiyo; Nishijima, Kanji, and Seio, Mamoru, 4,673,458, Cl. 156-659.100.

Nishijima, Kazunori; and Sugawara, Mitsutoshi, to NEC Corporation. Transistor circuit for signal multiplier. 4,694,204, 9-15-87, Cl. 307-494.000.

Nishijima, Kazuo: *See*—
Imai, Motomasa; Harata, Mitsuo; Takahashi, Takashi; and Nishijima, Kazuo, 4,701,767, Cl. 346-74.200.

Nishijima, Kazuyoshi: *See*—
Endo, Tetugi; and Nishijima, Kazuyoshi, 4,655,101, Cl. 74-552.000.

Nishijima, Masaru, to Sharp Kabushiki Kaisha. Copying machine having a control process to reduce copying time. 4,681,423, 7-21-87, Cl. 355-14.00R.

Nishijima, Masaru: *See*—
Hagihara, Hideaki; and Nishijima, Masaru, 4,650,097, Cl. 222-161.000.

Nishijima, Shigetoshi: *See*—
Nakayama, Hajime; Aoki, Osamu; Nishijima, Shigetoshi; Horiuchi, Haruo; Sugino, Takuya; and Takagi, Shuichi, 4,672,940, Cl. 123-590.000.

Nishijima, Takeshi. Stretcher. 4,667,355, 5-26-87, Cl. 5-82.00R.

Nishijima, Toyoki; and Onodera, Kaoru, to Konishiroku Photo Industry Co., Ltd. Silver halide color photographic material of improved reproducibility. 4,675,275, 6-23-87, Cl. 430-372.000.

Nishijima, Toyoki; and Onodera, Kaoru, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide color photographic material. 4,684,603, 8-4-87, Cl. 430-372.000.

Nishijima, Yasuo: *See*—
Egami, Kazunari; Umeda, Tetsuo; and Nishijima, Yasuo, 4,675,909, Cl. 382-50.000.

Nishikata, Masahiro; and Nozaki, Masato, to Aisin Seiki Kabushiki Kaisha. System for cooling internal combustion engines. 4,644,909, 2-24-87, Cl. 123-41.100.

Nishikawa, Akira, to Plibrico Japan Co., Ltd. Wear-resistant refractory lining anchor. 4,651,487, 3-24-87, Cl. 52-378.000.

Nishikawa, Akira, to Mitsubishi Denki Kabushiki Kaisha. Switchgear assembly for electrical apparatus. 4,688,013, 8-18-87, Cl. 337-168.000.

Nishikawa, Akiyoshi: *See*—
Ishizaki, Morio; and Nishikawa, Akiyoshi, 4,637,249, Cl. 73-41.000.

Nishikawa, Eiichiro: *See*—
Nakamura, Teiji; Nishikawa, Eiichiro; and Koyama, Takeo, 4,691,070, Cl. 585-273.000.

Nishikawa, Eikichi, to Yamaoka Industry Corporation. Roaster. 4,648,378, 3-10-87, Cl. 126-21.00A.

Nishikawa, Fumikazu: *See*—
Murata, Tsuneo; Hirata, Yoshihiro; Miyagawa, Toshio; and Nishikawa, Fumikazu, 4,670,791, Cl. 358-256.000.

Nishikawa, Hirohsi: *See*—
Fujita, Shigeyoshi; Saski, Tomoyuki; Fukuhara, Kazuyoshi; and Nishikawa, Hirohsi, 4,671,183, Cl. 104-93.000.

Nishikawa, Hiromitu: *See*—
Yamagishi, Jun; and Nishikawa, Hiromitu, 4,640,050, Cl. 49-280.000.

Nishikawa, Hiroshi, to Canon Kabushiki Kaisha. Electronic desk-top calculator. 4,651,295, 3-17-87, Cl. 364-709.000.

Nishikawa, Hisashi: *See*—
Shimosato, Masashi; Torisawa, Yoshihiro; Nishikawa, Hisashi; and Endo, Mitsuharu, 4,646,111, Cl. 346-140.00R.

Nishikawa, Kazunori: *See*—
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; Ueno, Shoji; Komura, Makoto; and Shichijo, Shunichi, 4,660,099, Cl. 358-342.000.
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,660,100, Cl. 358-342.000.
Sugiyama, Hiroyuki; Komura, Makoto; Masuda, Isao; Nishikawa, Kazunori; and Iwasaki, Yoshiki, 4,667,318, Cl. 369-59.000.
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,692,816, Cl. 358-342.000.

Nishikawa, Kazuo, to Kabushiki Kaisha Morita Seisakusho. Vertical movement and fixture device. 4,658,669, 4-21-87, Cl. 74-531.000.

Nishikawa, Kazuo, to Kabushiki Kaisha Morita Seisakusho. Dental radiographic apparatus for photographing entire jaws. 4,661,967, 4-28-87, Cl. 378-39.000.

Nishikawa, Kenji: *See*—
Fujita, Takashi; Goto, Yuko; and Nishikawa, Kenji, 4,658,974, Cl. 215-12.00R.

Nishikawa, Kihachiro: *See*—
Kyoden, Hiroshi; Endo, Yasuhiro; Fujiwara, Teiichi; Mimura, Toshisada; Nishikawa, Kihachiro; and Nishizawa, Shoichi, 4,636,969, Cl. 364-550.000.

Nishikawa, Kohei: *See*—
Meguro, Kanji; and Nishikawa, Kohei, 4,640,916, Cl. 514-222.000.
Nomura, Hiroaki; Nishikawa, Kohei; and Tsushima, Susumu, 4,650,791, Cl. 514-82.000.
Sugihara, Hirosada; Nishikawa, Kohei; and Ito, Katsumi, 4,638,000, Cl. 514-211.000.

Nishikawa, Makoto; Inada, Takeo; Tomoda, Hiroaki; Naruto, Eiro; Oki, Kazuyuki; and Hirano, Kouichi, to Kumahira Safe Co., Inc. Clock lock. 4,655,061, 4-7-87, Cl. 70-271.000.

Nishikawa, Masaaki: *See*—
Ito, Yoshio; and Nishikawa, Masaaki, 4,677,495, Cl. 358-285.000.

Nishikawa, Masahiko, to Pegasus Sewing Machine Mfg. Co., Ltd. Hemming apparatus. 4,640,206, 2-3-87, Cl. 112-143.000.

Nishikawa, Masahiro: *See*—
Matsuoka, Tomizo; Nishikawa, Masahiro; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, 4,668,582, Cl. 428-690.000.

Nishikawa, Masaji, to Olympus Optical Co., Ltd. Sheet turn over apparatus. 4,657,238, 4-14-87, Cl. 271-186.000.

Nishikawa, Masao; Sakai, Shinzo; and Miyake, Junichi, to Honda Giken Kogyo Kabushiki Kaisha. Method and apparatus for minimizing pressurized fluid flow in an automatic transmission. 4,633,737, 1-6-87, Cl. 74-866.000.

Nishikawa, Masao; Sakai, Shinzo; and Sakurai, Yoshimi, to Honda Giken Kogyo Kabushiki Kaisha. Gear shift controller for automatic transmission. 4,637,278, 1-20-87, Cl. 74-866.000.

Nishikawa, Masao; Aoki, Takashi; Sato, Yoichi; and Yoshizawa, Hiroshi, to Honda Giken Kogyo Kabushiki Kaisha. Control system for a hydraulic transmission to prevent vehicle creep. 4,643,049, 2-17-87, Cl. 74-868.000.

Nishikawa, Masao; Aoki, Takashi; and Sato, Yoichi, to Honda Giken Kogyo Kabushiki Kaisha. Direct-coupling control system for fluid gear in automatic vehicular transmission. 4,650,047, 3-17-87, Cl. 192-3.310.

Nishikawa, Masao; Yamaguchi, Kouji; Sakurai, Yoshimi; and Aoki, Takashi, to Honda Giken Kogyo Kabushiki Kaisha. Direct-coupling control system for torque converter in automatic transmission for vehicles. 4,655,330, 4-7-87, Cl. 192-3.300.

Nishikawa, Masao; Miyake, Junichi; and Sakurai, Yoshimi, to Honda Giken Kogyo Kabushiki Kaisha. Control system for engine-driven auxiliary equipment for vehicles. 4,658,943, 4-21-87, Cl. 192-0.073.

Nishikawa, Masao; Aoki, Takashi; and Sato, Yoichi, to Honda Giken Kogyo Kabushiki Kaisha. Creep-inhibiting device for an automotive vehicle equipped with an automatic transmission. 4,660,442, 4-28-87, Cl. 74-869.000.

Nishikawa, Masao; Sakurai, Yoshimi; and Aoki, Takashi, to Honda Giken Kogyo Kabushiki Kaisha. Direct-coupling control device for torque converter for automatic vehicular transmission. 4,660,690, 4-28-87, Cl. 192-3.310.

Nishikawa, Masao; and Aoki, Takashi, to Honda Giken Kogyo Kabushiki Kaisha. Warm-up promotion device for automatic transmission. 4,680,928, 7-21-87, Cl. 60-329.000.

Nishikawa, Masao; Aoki, Takashi; Sato, Yoichi; and Fukuda, Yukihiro, to Honda Giken Kogyo Kabushiki Kaisha. Control system for engine-operated automotive accessories. 4,688,530, 8-25-87, Cl. 123-198.00R.

Nishikawa, Masao; and Sakurai, Yoshimi, to Honda Giken Kogyo Kabushiki Kaisha. Automatic transmission with anti creep device. 4,691,596, 9-8-87, Cl. 74-869.000.

Nishikawa, Masao; Sakurai, Yoshimi; Aoki, Takashi; and Sato, Yoichi, to Honda Giken Kogyo Kabushiki Kaisha. Lock-up control device for torque converter in automatic transmission for vehicle. 4,693,347, 9-15-87, Cl. 192-3.300.

Nishikawa, Masao; Miyake, Junichi; Sakurai, Yoshimi; and Fukuda, Yukihiro, to Honda Giken Kogyo Kabushiki Kaisha. Method of controlling transmission capacity of a direct-coupling mechanism in hydraulic power transmission means of an automatic transmission for automotive vehicles in accordance with vehicle operation mode. 4,700,819, 10-20-87, Cl. 192-3.620.

Nishikawa, Masao; Aoki, Takashi; and Sakurai, Yoshimi, to Honda Giken Kogyo Kabushiki Kaisha. Automatic transmission with upshift smoothing valve. 4,706,523, 11-17-87, Cl. 74-869.000.

Nishikawa, Masao: *See*—
Aoki, Takashi; Miyake, Junichi; and Nishikawa, Masao, 4,651,593, Cl. 74-731.000.
Aoki, Takashi; Sakurai, Yoshimi; and Nishikawa, Masao, 4,662,493, Cl. 192-0.052.
Aoki, Takashi; Fukuda, Yukihiro; and Nishikawa, Masao, 4,696,383, Cl. 192-70.120.
Sakai, Shino; and Nishikawa, Masao, 4,709,792, Cl. 192-0.044.

Nishikawa, Masayasu; and Kimura, Kenji, to Honda Giken Kogyo Kabushiki Kaisha. Cylinder head for internal combustion engines. 4,643,157, 2-17-87, Cl. 123-568.000.

Nishikawa, Masumi; Ishikawa, Masanobu; Sato, Hiroki; Toyoda, Shuhei; and Ishii, Hakumi, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Shaft and bush device and tilting steering equipment with the shaft and bush device. 4,633,732, 1-6-87, Cl. 74-493.000.

Nishikawa, Masumi; Ishikawa, Masanobu; and Nakashima, Hiroshi, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Attitude controlling system for a steering wheel. 4,661,752, 4-28-87, Cl. 318-434.000.

Nishikawa, Masumi; Ishikawa, Masanobu; Watanabe, Hiroshi; Kikuchi, Kenichi; and Takizawa, Sumio, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Telescopic assembly. 4,669,325, 6-2-87, Cl. 74-89.150.

Nishikawa, Masumi, and Ishikawa, Masanobu, to Aisin Seiki Kabushiki Kaisha. Back-lash eliminating mechanism in screw-type driving device. 4,679,457, 7-14-87, Cl. 74-441.000.

Nishikawa, Masumi: *See*—
Ishikawa, Masanobu; Nishikawa, Masumi; Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo, 4,698,838, Cl. 379-58.000.

Nishikawa, Mazumi: *See*—
Murata, Toyo-o; Narita, Hiroshi; Shigeyama, Yukinori; and Nishikawa, Mazumi, 4,688,772, Cl. 266-158.000.

Nishikawa, Meisei: *See*—
Konishi, Kazuo; and Nishikawa, Meisei, 4,701,875, Cl. 364-728.000.

Nishikawa, Mikio: *See*—
Fujii, Hiroyuki; Tateno, Kenichi; and Nishikawa, Mikio, 4,637,130, Cl. 29-588.000.

Nishikawa, Motoaki; Iwami, Morita; Yoshida, Keizo; and Kohsaka, Masanobu, to Fujisawa Pharmaceutical Co., Ltd. WS 7739 substances, their preparation and pharmaceutical composition containing the same. 4,661,352, 4-28-87, Cl. 424-117.000.

Nishikawa, Reiji: *See*—
Sagou, Masayuki; and Nishikawa, Reiji, 4,680,197, Cl. 427-129.000.
Suzuki, Toshiyuki; and Nishikawa, Reiji, 4,649,073, Cl. 428-212.000.
Suzuki, Toshiyuki; and Nishikawa, Reiji, 4,652,479, Cl. 428-64.000.

Nishikawa Sangyo Co., Ltd.: *See*—
Fujino, Yukio; and Kabaya, Morihiro, 4,680,822, Cl. 5-421.000.

Nishikawa, Satoshi: *See*—
Kakinuma, Hiroaki; Fukuda, Hisashi; and Nishikawa, Satoshi, 4,664,999, Cl. 430-67.000.

Nishikawa, Seiichi: *See*—
Harada, Yoshiharu; Taga, Yutaka; Nishikawa, Seiichi; Hayakawa, Yoichi; and Kawai, Masao, 4,688,449, Cl. 74-740.000.
Hayakawa, Yoichi; Kawai, Masao; Nishikawa, Seiichi; and Fukumura, Kagenori, 4,713,989, Cl. 74-869.000.

Nishikawa, Shigeo: *See*—
Endo, Hiroshi; Arai, Masakazu; Nishikawa, Shigeo; Saito, Masanori; Tanaka, Masahiro; Nagasaki, Kunikazu; and Mathuno, Shigeki, 4,698,191, Cl. 264-50.000.

Nishikawa, Shunji, to Nec Home Electronics Ltd. Projection television receiver with a retractable reflector. 4,707,746, 11-17-87, Cl. 358-231.000.

Nishikawa, Sinji: *See*—
Suzuki, Tetsuo; and Nishikawa, Sinji, 4,667,285, Cl. 364-200.000.

Nishikawa, Takafumi: *See*—
Yamato, Akihiro; and Nishikawa, Takafumi, 4,708,115, Cl. 123-494.000.

Nishikawa, Takao: *See*—
Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Ono, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.

Nishikawa, Takayoshi, to Nippondenso Co., Ltd. Electric motor control apparatus. 4,656,402, 4-7-87, Cl. 318-341.000.

Nishikawa, Tooru: *See*—
Akiyama, Shigeru; Ueno, Hidetoshi; Imagawa, Koji; Kitahara, Akira; Nagata, Sumio; Morimoto, Kazuo; Nishikawa, Tooru; and Itoh, Masao, 4,713,277, Cl. 428-131.000.

Nishikawa, Toshihide; Hanada, Kenichirou; Nishimura, Yukinobu; and Shimomura, Setsuhiro, to Mazda Motor Corporation; and Mitsubishi Denki Kabushiki Kaisha. Fuel-injection control system for an internal combustion engine. 4,706,634, 11-17-87, Cl. 123-492.000.

Nishikawa, Toshihide: *See*—
Minamitani, Kunitomo; Izuo, Masahiro; Nakao, Yuji; Nishikawa, Toshihide; and Kawaguchi, Hiroyuki, 4,703,735, Cl. 123-489.000.

Nishikawa, Toshihiro: *See*—
Abe, Akira; Nakajima, Junya; and Nishikawa, Toshihiro, 4,695,529, Cl. 430-351.000.

Nishikawa, Toshio; Ishikawa, Yoshei; and Wada, Hidekazu, to Murata Manufacturing Co., Ltd. Dielectric resonator comprising a resonant dielectric pillar mounted in a conductively coated dielectric case. 4,639,699, 1-27-87, Cl. 333-202.000.

Nishikawa, Toshio; and Yorita, Tadahiro, to Murata Manufacturing Co., Ltd. Dielectric filter for use in a microwave integrated circuit. 4,703,291, 10-27-87, Cl. 333-202.000.

Nishikawa, Toshio; and Tamura, Sadahiro, to Murata Manufacturing Co., Ltd. Band reflection type FET dielectric resonator oscillator. 4,713,632, 12-15-87, Cl. 331-117.00D.

Nishikawa, Toshio: *See*—
Hotate, Makoto; Nishikawa, Toshio; and Tabara, Yoshitaka, 4,662,339, Cl. 123-486.000.
Hotate, Makoto; Kaneko, Tadashi; Nishikawa, Toshio; Nakazumi, Tadataka; and Takeuchi, Nobuo, 4,682,044, Cl. 290-40.00B.
Hotate, Makoto; Nishikawa, Toshio; Takeuchi, Kobuo; Okuno, Itaru; and Nakazumi, Tadataka, 4,691,677, Cl. 123-399.000.
Takeuchi, Nobuo; Hotate, Makoto; Kaneko, Tadashi; and Nishikawa, Toshio, 4,665,878, Cl. 123-492.000.

Nishikawa, Toyotaka: *See*—
Motoyama, Masanori; Nishikawa, Toyotaka; and Nakagawa, Masashi, 4,707,675, Cl. 335-130.000.

Nishikawa, Tsutomu: *See*—
Soeda, Kazuhiko; Mori, Masakazu; Nishikawa, Tsutomu; and Tomimori, Kiyoshi, 4,710,022, Cl. 356-73.100.

Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, to Fuji Photo Film

Company Limited. Magnetic recording medium and process for producing the same. 4,693,927, 9-15-87, Cl. 428-216.000.
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shikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, to Fuji Photo Film Co., Ltd.; and Japan Synthetic Rubber Co., Ltd. Magnetic recording medium. 4,713,287, 12-15-87, Cl. 428-336.000.
shikawa, Yasuo: *See*—
Kawamata, Toshio; Nishikawa, Yasuo; and Morita, Kazuhiko, 4,654,258, Cl. 428-323.000.
Ryoki, Katsumi; Takahashi, Masatoshi; Yoneyama, Takashi; Nishikawa, Yasuo; and Tadokoro, Eiichi, 4,693,929, Cl. 428-323.000.
Yanagihara, Kenji; Kimura, Mituo; Niinomi, Masahiro; Nishikawa, Yasuo; and Mukaida, Yoshito, 4,693,799, Cl. 204-165.000.
hikawa, Yoshihiro; Kanemitsu, Kimihiro; Katori, Tatsuhiko; hibata, Akihiro; and Kukita, Kenichi, to SS Pharmaceutical Co., td. α,α-trehalose fatty acid diester derivative. 4,684,719, 8-4-87, Cl. 0-119.000.
hikawa, Yukitoshi: *See*—
Koishi, Toshio; Tanaka, Isao; Yasumura, Takashi; and Nishikawa, Yukitoshi, 4,687,295, Cl. 350-96.340.
iki, Masahiro, to NGK Spark Plug Co., Ltd. Ceramic electronic ter. 4,639,698, 1-27-87, Cl. 333-187.000.
iki, Masayuki; and Iinuma, Kazuhiro, to Kabushiki Kaisha Toshiba. diographic image detection apparatus. 4,689,487, 8-25-87, Cl. 0-361.00R.
hikura, Hiroshi: *See*—
Yamamoto, Shin; and Nishikura, Hiroshi, 4,699,661, Cl. 106-162.000.
hikuri, Masao: *See*—
Hattori, Makoto; Nishikuri, Masao; and Ueda, Yasuyoshi, 4,710,320, Cl. 260-378.000.
Nakamatsu, Toshio; Matsuo, Yoshikazu; Nishikuri, Masao; and Imada, Kunihiko, 4,690,686, Cl. 8-638.000.
mmatsu, Masaharu; Ide, Toshiaki; Saito, Yoshiaki; and Kubota, uichi, to TDK Corporation. Magnetic recording medium and ethod for making. 4,637,963, 1-20-87, Cl. 428-694.000.
mmatsu, Masaharu; Ide, Toshiaki; and Arioka, Hiroyuki, to TDK rporation. Magnetic recording medium. 4,639,389, 1-27-87, Cl. 8-141.000.
mmatsu, Masaharu; Arioka, Hiroyuki; and Ishizaki, Hideki, to TDK rporation. Magnetic recording medium for image recording. 1,934, 9-15-87, Cl. 428-336.000.
mmatsu, Masaharu; Takayama, Suguru; and Arioka, Hiroyuki, to DK Corporation. Magnetic recording medium. 4,701,375, 10-20-87, 428-336.000.
mmatsu, Masaharu: *See*—
Ide, Toshiaki; Shimozawa, Tohru; and Nishimatsu, Masaharu, 4,699,819, Cl. 428-141.000.
Ishizaki, Hideki; Hasegawa, Osamu; and Nishimatsu, Masaharu, 4,677,023, Cl. 428-323.000.
Isobe, Yukihiro; Tanaka, Kazushi; Nishimatsu, Masaharu; Shinoura, Osamu; and Kubota, Yuichi, 4,670,340, Cl. 428-339.000.
Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobumori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Isobe, Yukihiro; Tanaka, Kazushi; and Shinoura, Osamu, 4,708,909, Cl. 428-425.900.
Shimada, Shigeru; Nishimatsu, Masaharu; Arioka, Hiroyuki; and Kubota, Yuichi, 4,678,708, Cl. 428-336.000.
Shimozawa, Toru; Nishimatsu, Masaharu; and Saito, Yoshiaki, 4,702,959, Cl. 428-323.000.
matsu, Shigeru: *See*—
Okudaira, Sadayuki; Nishimatsu, Shigeru; Suzuki, Keizo; Ninomiya, Ken; and Hamazaki, Ryoji, 4,705,595, Cl. 156-643.000.
michi, Yoshito; Uya, Masaru; and Kaneko, Katsuyuki, to Matsuta Electric Industrial Co., Ltd. Integrated circuit having latch cuit with multiplexer selection function. 4,709,173, 11-24-87, Cl. 7-243.000.
miya, Masanobu: *See*—
Emoto, Masami; Nishimiya, Masanobu; and Kiguchi, Hiroyuki, 4,636,625, Cl. 250-201.000.
mori, Kadotaro, to Minolta Camera Kabushiki Kaisha. Scanning e copying machine. 4,711,554, 12-8-87, Cl. 355-8.000.
mori, Kadotaro; Yoshida, Keiji; and Ohira, Tadashi, to Minolta mera Kabushiki Kaisha. Original illumination device with an tomatic illumination control. 4,711,569, 12-8-87, Cl. 355-69.000.
mori, Masayoshi: *See*—
Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Goto, Masaki, 4,709,935, Cl. 280-91.000.
mori, Shinji, to Ebara Corporation. Grinder pump. 4,697,746, 6-87, Cl. 241-46.00B.
mori, Shoji; and Nishii, Takeshi, to Matsushita Electric Works, d. Compact snap action switch. 4,644,115, 2-17-87, Cl. 200-67.00D.
mori, Shozo; and Eguma, Chikashi, to Shiraimatsu Shinyaku hoshiki Kaisha. Water treatment package. 4,707,263, 11-17-87, Cl. 1484.000.
moto, Akira: *See*—
ikawa, Shinichi; Shibuya, Hiroshi; Kato, Hideya; and Nishimoto, Akira, 4,700,249, Cl. 360-104.000.
Nishimoto, Hideo: *See*—
Miyazawa, Hideo; Endo, Shokichi; and Nishimoto, Hideo, 4,648,346, Cl. 118-500.000.
Nishimoto, Ikuo; Kamiunten, Shoji; and Kuroiwa, Takaaki, to Yamatake-Honeywell Co., Ltd. Humidity sensing apparatus. 4,677,416, 6-30-87, Cl. 338-35.000.
Nishimoto, Kanichi, to Noritsu Kenkyu Center Co., Ltd. Photosensitive matefial treating apparatus. 4,712,899, 12-15-87, Cl. 354-316.000.
Nishimoto, Masushi: *See*—
Koga, Hitoshi; Noborio, Takehisa; and Nishimoto, Masushi, 4,650,951, Cl. 219-118.000.
Nishimoto, Naomichi; Hirota, Akira; and Kosaka, Yoshiteru, to Victor Company of Japan, Ltd. Video signal recording and reproducing apparatus. 4,644,412, 2-17-87, Cl. 358-335.000.
Nishimoto, Naomichi, to Victor Company of Japan. Synchronized signal separating circuit for a recording and reproducing apparatus. 4,691,248, 9-1-87, Cl. 358-320.000.
Nishimoto, Naomichi, to Victor Company of Japan, Ltd. Jitter-immune time expansion for time-compressed line-sequential video signals. 4,692,814, 9-8-87, Cl. 358-320.000.
Nishimoto, Naomichi: *See*—
Ichinoi, Yutaka; and Nishimoto, Naomichi, 4,641,201, Cl. 358-310.000.
Nishimoto, Takashi: *See*—
Sugita, Minoru; Nakatsuji, Teruyuki; Fujisaki, Tadashi; Hiraga, Hisao; Nishimoto, Takashi; and Futagawa, Minoru, 4,706,430, Cl. 52-309.160.
Nishimoto, Tetsuo, to Nippon Gakki Seizo Kabushiki Kaisha. Method of synthesizing musical tones. 4,644,839, 2-24-87, Cl. 84-1.010.
Nishimoto, Tetsuo, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument using amplitude modulation with feedback loop. 4,655,115, 4-7-87, Cl. 84-1.190.
Nishimoto, Tsuneo: *See*—
Noguchi, Takayo; Togawa, Yoichi; Nishimoto, Tsuneo; Tonohara, Yoshiharu; Rokkaku, Tadashi; Nakai, Seigo; Araki, Michio; and Kitano, Kahei, 4,695,209, Cl. 409-42.000.
Nishimoto, Yoshiharu: *See*—
Ohya, Masaki; Nishimoto, Yoshiharu; and Shibuya, Kunio, 4,699,846, Cl. 428-516.000.
Nishimoto, Yukimasa: *See*—
Yasuo, Nakano; Fukami, Kazuaki; and Nishimoto, Yukimasa, 4,703,839, Cl. 188-346.000.
Nishimu Electronics Industries Co., Ltd.: *See*—
Eishima, Yoshinori; and Kawata, Yasuhiro, 4,665,322, Cl. 307-66.000.
Harada, Kosuke; Murata, Katsuaki; and Nakamizo, Takazi, 4,642,549, Cl. 323-210.000.
Nishimukai, Tadahiko: *See*—
Uchiyama, Kunio; and Nishimukai, Tadahiko, 4,646,271, Cl. 365-49.000.
Nishimula, Shoji: *See*—
Takematsu, Tetsuo; Takeuchi, Yasutomo; Hiraishi, Kozo; Fujii, Toshikazu; Nishimula, Shoji; Suzuki, Motoyuki; Sato, Masahiro; and Hayashi, Hiroshi, 4,657,581, Cl. 71-118.000.
Nishimura, Akimasa, to Canon Kabushiki Kaisha. Loading and unloading system for flexible disc drive apparatus. 4,710,831, 12-1-87, Cl. 360-99.000.
Nisnimura, Akira: *See*—
Hasegawa, Takahiro; Kashihara, Takanobu; and Nishimura, Akira, 4,663,315, Cl. 514-86.000.
Moriya, Masafumi; Hosoda, Kazuo; Nishimura, Akira; and Imachi, Takao, 4,670,160, Cl. 210-728.000.
Moriya, Masafumi; Hosoda, Kazuo; Nishimura, Akira; and Imachi, Takao, 4,670,180, Cl. 252-180.000.
Ohsawa, Yoshitaka; Shibata, Yutaka; Niwa, Shin-ichiro; Nishimura, Akira; and Uemiya, Takafumi, 4,708,833, Cl. 264-1.500.
Ono, Kimizo; and Nishimura, Akira, 4,681,093, Cl. 128-6.000.
Seo, Akira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Nishimura, Akira; Konaka, Shigeo; Ohmi, Tetsuto; Munechika, Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, 4,636,519, Cl. 514-397.000.
Nishimura, Akito: *See*—
Nakagawa, Mikio; Sato, Koichiro; Kanemoto, Kuniaki; and Nishimura, Akito, 4,670,349, Cl. 428-516.000.
Nishimura, Asaichi: *See*—
Tonoki, Satoshi; Tsunemi, Hidenari; Nishimura, Asaichi; and Abe, Kunihisa, 4,710,420, Cl. 428-212.000.
Nishimura, Atsumi. Men's briefs. 4,660,551, 4-28-87, Cl. 128-79.000.
Nishimura, Atsushi: *See*—
Haruna, Tohru; Nishimura, Atsushi; and Sugibuchi, Kazuo, 4,661,597, Cl. 546-242.000.
Haruna, Tohru; Nishimura, Atsushi; and Sugibuchi, Kazuo, 4,663,459, Cl. 546-242.000.
Kubota, Naohiro; and Nishimura, Atsushi, 4,681,905, Cl. 524-91.000.
Kubota, Naohiro; and Nishimura, Atsushi, 4,684,679, Cl. 524-91.000.
Kubota, Naohiro; Shibata, Toshihiro; and Nishimura, Atsushi, 4,684,680, Cl. 524-91.000.
Nishimura, Chitoshi: *See*—
Ikeda, Akitoshi; Nishimura, Chitoshi; Katsuoka, Norio; and Obara, Masami, 4,715,582, Cl. 254-134.3CL.
Nishimura, Dwight G., to Stanford University. Multiple pulse excitation in NMR imaging. 4,672,319, 6-9-87, Cl. 324-309.000.

Nishimura, Eiji; Takigawa, Tadahiro; and Kato, Yoshihide, to Kabushiki Kaisha Toshiba. Method of forming a fine pattern with a charged particle beam. 4,712,013, 12-8-87, Cl. 250-492.200.

Nishimura, Hidetaro: *See*—
Shiozaki, Masakazu; and Nishimura, Hidetaro. 4,682,204, Cl. 357-51.000.

Nishimura, Hirofumi; and Morita, Yasuyuki, to Mazda Motor Corporation. Variable valve mechanism for internal combustion engines. 4,690,110, 9-1-87, Cl. 123-90.170.

Nishimura, Hirofumi: *See*—
Mamiya, Kiyotaka; Kaneko, Tadashi; Fujimoto, Misao; and Nishimura, Hirofumi. 4,646,522, Cl. 60-602.000.

Nishimura, Hiroshi; and Miyasaka, Masao, to Hitachi Koki Company, Limited. Device for cleaning a type-carrier. 4,704,963, 11-10-87, Cl. 101-425.000.

Nishimura, Hiroyuki, to NEC Corporation. Data processing system for vector processing having a cache invalidation control unit. 4,638,431, 1-20-87, Cl. 364-200.000.

Nishimura, Ikuma: *See*—
Nakamura, Junji; Nishimura, Ikuma; Saito, Goro; and Matsumoto, Kozo. 4,710,436, Cl. 429-41.000.

Nishimura, Izumi; and Nagata, Koichi, to NEC Corporation. Paging communication system. 4,706,272, 11-10-87, Cl. 379-57.000.

Nishimura, Izumi: *See*—
Yoshida, Hiroshi; Toyoshima, Takefumi; Iwabori, Tomio; Ohkura, Hideaki; Miyamoto, Yasuo; Nishimura, Izumi; Oikawa, Toshiyuki; Sekijima, Kenji; and Ohashi, Makoto. 4,709,898, Cl. 248-562.000.

Nishimura, Jinichi. Rotating heat exchanger. 4,640,345, 2-3-87, Cl. 165-92.000.

Nishimura, Kaoru: *See*—
Hasegawa, Akira; Nishimura, Kaoru; and Yoshida, Yukio. 4,674,965, Cl. 425-29.000.

Nishimura, Katsuo, to Citizen Watch Co., Ltd. World time watch. 4,681,460, 7-21-87, Cl. 368-21.000.

Nishimura, Kazuhisa; Yoshihiro, Mitsugu; Sakai, Masaaki; and Hataoka, Seiichi, to Sony Corporation. Capstan servo system. 4,698,703, 10-6-87, Cl. 360-73.000.

Nishimura, Kazuyoshi; Tabushi, Keaji; Nishino, Tadashi; and Kimura, Tomoaki, to Hitachi, Ltd.; and Nisshin Steel Co., Ltd. Apparatus for preventing oscillation of running strip. 4,655,166, 4-7-87, Cl. 118-673.000.

Nishimura, Keizo; Kobayashi, Masaharu; Okamoto, Hiroo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi, to Hitachi, Ltd. Digital signal transmission method providing high error correction capability. 4,649,542, 3-10-87, Cl. 371-39.000.

Nishimura, Keizo: *See*—
Okamoto, Hiroo; Kobayashi, Masaharu; Nishimura, Keizo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi. 4,677,622, Cl. 371-39.000.

Nishimura, Kosuke, to Sharp Kabushiki Kaisha. Memory contents confirmation. 4,646,307, 2-24-87, Cl. 371-53.000.

Nishimura, Kosuke, to Sharp Kabushiki Kaisha. Wireless phone system communicatively combined with a computer. 4,661,659, 4-28-87, Cl. 379-61.000.

Nishimura, Kosuke: *See*—
Hashimoto, Shintaro; Masuzawa, Sigeaki; Kunita, Hisao; Inoue, Tomohiro; and Nishimura, Kosuke. 4,707,794, Cl. 364-513.500.
Honda, Toshio; and Nishimura, Kosuke, 4,705,211, Cl. 235-380.000.
Washizuka, Isamu; Nishimura, Kosuke; and Saiji, Mitsuhiro. 4,701,862, Cl. 364-513.500.

Nishimura, Kotaro: *See*—
Sasaki, Yukio; Nishimura, Kotaro; and Minato, Osamu. 4,641,285, Cl. 365-210.000.

Nishimura, Kozo, to Mita Industrial Co., Ltd. Clutch mechanisms with improved electromagnetic means, spring supports and assembly versatility. 4,704,554, 11-3-87, Cl. 310-72.000.

Nishimura, Kunio; and Hirakawa, Tadashi, to Teijin Limited. Base material for honeycomb core structure and process for producing the same. 4,710,432, 12-1-87, Cl. 428-542.800.

Nishimura, Makoto, to Tokiko, Ltd. Method of controlling positioning of rotor of stepping motor. 4,691,153, 9-1-87, Cl. 318-696.000.

Nishimura, Masahiro: *See*—
Mikami, Kazuo; Nishimura, Masahiro; Tsukiyama, Noriyuki; and Hinoda, Seisuke. 4,653,014, Cl. 364-526.000.
Morishita, Koji; Hirose, Hujio; Nakatsuka, Nobuo; and Nishimura, Masahiro. 4,679,932, Cl. 356-28.000.

Nishimura, Masakatsu: *See*—
Kuroda, Hiroshi; Nishimura, Tsukasa; Nishimura, Masakatsu; Hashimoto, Taiki; Kanda, Osamu; Nozawa, Shigeru; and Shibata, Kenji. 4,687,649, Cl. 423-242.000.

Nishimura, Masayuki; and Hatton, William H., to Sumitomo Electric Research Triangle, Inc. Method of measuring the geometry of optical fibers. 4,662,743, 5-5-87, Cl. 356-73.100.

Nishimura, Masayuki; Suzuki, Shuzo; and Yokoto, Hiroshi, to Sumitomo Electric Industries, Ltd. Fiber for optical transmission. 4,715,695, 12-29-87, Cl. 350-96.310.

Nishimura, Minoru: *See*—
Hattori, Torao; Nishimura, Minoru; and Goto, Masaki. 4,642,077, Cl. 474-201.000.

Nishimura, Motoyuki: *See*—
Moritaka, Shintaro, deceased; Watanabe, Yasuhiko; and Nishimura, Motoyuki. 4,687,669, Cl. 426-72.000.

Nishimura, Norihisa; Suga, Yuko; Miyachi, Takeshi; and Masaki, Yuichi, to Canon Kabushiki Kaisha. Optical modulating device having projection on substrate for registration. 4,634,227, 1-6-87, Cl. 350-334.000.

Nishimura, Ryoji: *See*—
Yamada, Seiji; Konishi, Satoshi; Kono, Katsuaki; and Nishimura, Ryoji. 4,705,125, Cl. 177-25.000.

Nishimura, Ryuji; Kato, Minoru; Noda, Masaru; and Imaide, Takuya, to Hitachi, Ltd. Solid-state color image pickup apparatus. 4,714,955, 12-22-87, Cl. 358-48.000.

Nishimura, Sadahiko: *See*—
Makimoto, Toshio; Nishimura, Sadahiko; Matsuo, Masayuki; Abiko, Toshio; Ishizaki, Hirohumi; Kanda, Minoru; Nunoya, Hidetsugu; and Komatsu, Mikio. 4,713,670, Cl. 343-700.0MS.

Nishimura, Sadanori, to Honda Giken Kogyo Kabushiki Kaisha. Damper device for a torque converter clutch. 4,638,897, 1-27-87, Cl. 192-3.300.

Nishimura, Sadanori; and Sekine, Noboru, to Honda Giken Kogyo Kabushiki Kaisha. Control device for vehicular transmission. 4,640,393, 2-3-87, Cl. 192-0.052.

Nishimura, Sadanori, to Honda Giken Kogyo Kabushiki Kaisha. Device for controlling the operation of clutch for fluid torque converter. 4,640,396, 2-3-87, Cl. 192-331.000.

Nishimura, Sadanori, to Honda Giken Kogyo Kabushiki Kaisha. Damper device of a clutch for a torque converter. 4,646,886, 3-3-87, Cl. 192-3.280.

Nishimura, Sadanori, to Honda Giken Kogyo Kabushiki Kaisha. Manual with auxiliary transmission. 4,674,358, 6-23-87, Cl. 74-745.000.

Nishimura, Sadanori; and Sekine, Noboru, to Honda Giken Kogyo Kabushiki Kaisha. Controller for vehicle transmission with auxiliary transmission. 4,697,475, 10-6-87, Cl. 74-866.000.

Nishimura, Sanji: *See*—
Matsui, Shingo; Ikeda, Hidetsugu; Era, Akio; and Nishimura, Sanji. 4,639,355, Cl. 423-112.000.
Watanabe, Morio; and Nishimura, Sanji. 4,670,230, Cl. 423-98.000.
Watanabe, Morio; Nishimura, Sanji; and Watanabe, Nobuatsu. 4,678,646, Cl. 422-245.000.

Nishimura, Seiichi; and Takayasu, Hidekazu, to Sanshin Kogyo Kabushiki Kaisha. Fuel supplying device for internal combustion engine. 4,677,944, 7-7-87, Cl. 123-73.00B.

Nishimura, Seiichi, to Sanshin Kogyo Kabushiki Kaisha. Carburetor icing preventing device. 4,691,671, 9-8-87, Cl. 123-73.00V.

Nishimura, Shigeru; and Kuroda, Toshihisa, to Matsushita Electric Industrial Co., Ltd. Video monitoring apparatus. 4,713,685, 12-15-87, Cl. 358-103.000.

Nishimura, Shinichi; and Kitajima, Nobuaki, to Tokyo Kogaku Kikai Kabushiki Kaisha. Illumination system for single objective lens binocular microscope. 4,657,357, 4-14-87, Cl. 350-516.000.

Nishimura, Shinichi, to Tokyo Kogaku Kikai Kabushiki Kaisha. Non-contact type tonometer. 4,705,045, 11-10-87, Cl. 128-648.000.

Nishimura, Shinichi: *See*—
Yoshino, Hisakazu; Nishimura, Shinichi; and Takagi, Kazutoshi. 4,702,570, Cl. 350-516.000.
Yoshino, Hisakazu; Nishimura, Shinichi; and Sasaki, Kazuyuki. 4,711,540, Cl. 351-214.000.
Yoshino, Hisakazu; Nishimura, Shinichi; and Sasaki, Kazuyuki. 4,711,541, Cl. 351-214.000.

Nishimura, Shinji; Wada, Hifumi; and Komurasaki, Keiichi, to Mitsubishi Denki Kabushiki Kaisha. Control apparatus for vehicular charging generator. 4,651,081, 3-17-87, Cl. 320-64.000.

Nishimura, Shinji; Wada, Hifumi; and Komurasaki, Keiichi, to Mitsubishi Denki Kabushiki Kaisha. Power generation control apparatus for alternating current generator. 4,686,446, 8-11-87, Cl. 322-33.000.

Nishimura, Shinji: *See*—
Komurasaki, Keiichi; Iwatani, Shiro; and Nishimura, Shinji. 4,680,529, Cl. 322-28.000.
Komurasaki, Keiichi; Wada, Hifumi; and Nishimura, Shinji. 4,689,545, Cl. 322-14.000.

Nishimura, Shuichi: *See*—
Yasuda, Makoto; Nishimura, Shuichi; and Ura, Syouzabu. 4,715,329, Cl. 123-52.0MV.

Nishimura, Susumu; Nomura, Hiroaki; and Akimoto, Hiroshi, to Takeda Chemical Industries, Ltd. 7-deazapurine derivatives useful as antitumor agents. 4,650,868, 3-17-87, Cl. 544-280.000.

Nishimura, Tadashi; Sugahara, Kazuyuki; Kusunoki, Shigeru; and Inoue, Yasuo, to Mitsubishi Denki Kabushiki Kaisha. Zone melting apparatus for monocrystallizing semiconductor layer on insulator layer. 4,694,143, 9-15-87, Cl. 219-388.000.

Nishimura, Tadashi: *See*—
Kusunoki, Shigeru; Nishimura, Tadashi; and Sugahara, Kazuyuki. 4,661,167, Cl. 148-1.500.
Sugahara, Kazuyuki; Nishimura, Tadashi; Kusunoki, Shigeru; and Inoue, Yasuo. 4,714,684, Cl. 437-19.000.

Nishimura, Takahiro; and Ohnuma, Masao, to Kurosaki Refractories Co., Ltd. Apparatus for compressively holding casting nozzles. 4,693,401, 9-15-87, Cl. 222-607.000.

Nishimura, Takashi, to Shimadzu Corporation. Apparatus for spectronalysis. 4,703,437, 10-27-87, Cl. 364-498.000.

Nishimura, Takashi: *See*—
Kawakami, Masafumi; and Nishimura, Takashi. 4,664,167, Cl. 152-209.00R.
Sugimoto, Koichi; Kamei, Kiyoshi; Murakami, Yotaro; Sugimoto, Takashi; Nishimura, Takashi; and Takashima, Takahiro. 4,634,477, Cl. 148-402.000.
Takenaka, Shigeo; Kamohara, Eiji; and Nishimura, Takashi. 4,712,038, Cl. 313-2.100.
Takenaka, Shigeo; Kamohara, Eiji; and Nishimura, Takashi. 4,714,856, Cl. 313-2.100.

to Mitutoyo Mfg. Co., Ltd. Method of indicating of measuring instrument. 4,651,291, 3-17-87, Cl.

and Shibata, Hirochika, to Aisin Seiki Kabushiki ota Jidosha Kabushiki Kaisha. Hydraulic anti-skid automotive vehicles. 4,652,061, 3-24-87, Cl.

Saito, Tadao; Nakanishi, Nobuyasu; and Noguchi, Seiki Kabushiki Kaisha; and Toyota Jidosha Kabu- lve assembly for brake fluid pressure control. 7, Cl. 303-113.000.

See—

aru; Saitoh, Tadao; and Nishimura, Takumi, 303-92.000.

aru; Nishimura, Takumi; Saito, Tadao; Shibata, akanishi, Nobuyasu; Shirai, Akira; and Noguchi, ,010, Cl. 303-115.000.

and Tamura, Tatsuya, to Hashimoto Forming .; and Kabushiki Kaisha Shibakawa Seisakusho. h an adjustable shut height. 4,676,090, 6-30-87, Cl.

u; Yokota, Hideo; and Kato, Masatake, to Canon Image pickup apparatus. 4,677,489, 6-30-87, Cl.

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u; Amano, Hiroyaki; Nishimura, Tomoaki; and umasa, 4,698,535, Cl. 310-156.000.

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i; Nishimura, Tsukasa; Nishimura, Masakatsu; Taiki; Kanda, Osamu; Nozawa, Shigeru; and , 4,687,649, Cl. 423-242.000.

; Nakatani, Seiichi; Yuhaku, Satoru; and Ishida, a Electric Industrial Co., Ltd. Thick film conduc- 695,403, 9-22-87, Cl. 252-513.000.

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Vital Kogyo Kabushiki Kaisha. Overload avoid- a hoist. 4,664,357, 5-12-87, Cl. 254-351.000.

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Nishimura, Yoshiaki, 4,654,328, Cl. 514-63.000.

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Nishimura, Yoshinori: *See—*

Zanma, Jun; Nishimura, Yoshinori; Shyoji, Kazuo; Shimagaki, Makoto; and Nakajima, Yoichi, 4,714,592, Cl. 422-192.000.

Nishimura, Yoshio: *See—*

Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Tanaka, Wataru; Takita, Tomohisa; Nishimura, Yoshio; and Yoshikawa, Hiroshi, 4,716,221, Cl. 536-17.200.

Nishimura, Yoshiyuki: *See—*

Naraki, Kazuhide; Nishimura, Yoshiyuki; and Yoshimura, Shoji, 4,671,749, Cl. 418-149.000.

Nishimura, Yuji; and Koide, Teruhiko, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Webbing tension adjusting apparatus. 4,637,630, 1-20-87, Cl. 280-807.000.

Nishimura, Yuji; and Kanada, Shigeyasu, to Kabushiki Kaisha Tokai-Rika-Denki-Seisakusho. Webbing retractor. 4,669,680, 6-2-87, Cl. 242-107.000.

Nishimura, Yuji; and Kawaharazaki, Takashi, to Kabushiki Kaisha Tokai-Rika-Denki-Seisakusho. Webbing driving apparatus. 4,676,444, 6-30-87, Cl. 242-54.00R.

Nishimura, Yuji; Fujiwara, Akinori; and Kanada, Shigeyasu, to Kabushiki Kaisha Tokai-Rika-Denki-Seisakusho. Controller for automatically effecting disengagement of buckle device. 4,678,928, 7-7-87, Cl. 307-10.0SB.

Nishimura, Yuji: *See—*

Tamura, Keiichi; Nishimura, Yuji; and Kawaharazaki, Takashi, 4,681,347, Cl. 280-804.000.

Nishimura, Yukinobu: *See—*

Kanno, Yoshiaki; and Nishimura, Yukinobu, 4,683,539, Cl. 364-431.050.

Nishikawa, Toshihide; Hanada, Kenichirou; Nishimura, Yukinobu; and Shimomura, Setsuhiro, 4,706,634, Cl. 123-492.000.

Shimomura, Setsuhiro; and Nishimura, Yukinobu, 4,665,871, Cl. 123-352.000.

Shimomura, Setsuhiro; and Nishimura, Yukinobu, 4,667,632, Cl. 123-339.000.

Wataya, Seiji; Shimomura, Setsuhiro; and Nishimura, Yukinobu, 4,694,806, Cl. 123-494.000.

Nishimura, Yukuo; Asano, Toshiaki; Mizusawa, Nobutoshi; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, to Canon Kabushiki Kaisha. Optical display utilizing thermally formed bubble in a liquid core waveguide. 4,640,592, 2-3-87, Cl. 350-96.320.

Nishimura, Yukuo; Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; and Nakagiri, Takashi, to Canon Kabushiki Kaisha. Method for forming a deposited film. 4,683,144, 7-28-87, Cl. 427-35.000.

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Nishimura, Yukuo; Miyawaki, Mamoru; Nose, Noriyuki; and Nakagiri, Takashi, to Canon Kabushiki Kaisha. Optical coupler. 4,691,982, 9-8-87, Cl. 350-96.120.

Nishimura, Yukuo: *See—*

Eguchi, Ken; Kawada, Haruki; and Nishimura, Yukuo, 4,672,265, Cl. 313-504.000.

Eguchi, Ken; Matsuda, Hiroshi; Haruta, Masahiro; Nishimura, Yukuo; Hirai, Yutaka; and Nakagiri, Takashi, 4,683,147, Cl. 427-54.100.

Eguchi, Ken; Nishimura, Yukuo; Haruta, Masahiro; Matsuda, Hiroshi; Hirai, Yutaka; and Nakagiri, Takashi, 4,705,403, Cl. 356-319.000.

Hirai, Yutaka; Matsuda, Hiroshi; Eguchi, Ken; Haruta, Masahiro; Nishimura, Yukuo; and Nakagiri, Takashi, 4,683,146, Cl. 427-54.100.

Hirai, Yutaka; Haruta, Masahiro; Nishimura, Yukuo; Matsuda, Hiroshi; and Nakagiri, Takashi, 4,695,717, Cl. 250-213.00R.

Matsuda, Hiroshi; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo; Eguchi, Ken; and Nakagiri, Takashi, 4,693,915, Cl. 427-256.000.

Miyazaki, Toshihiko; Sugawa, Etsuko; Tomida, Yoshinori; Munakata, Hirohide; Nishimura, Yukuo; and Eguchi, Ken, 4,674,436, Cl. 118-402.000.

Munakata, Hirohide; Tomida, Yoshinori; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo, and Hamamoto, Takashi, 4,634,628, Cl. 430-325.000.

Saito, Kenji; Eguchi, Ken; Kawada, Haruki; Tomida, Yoshinori; Nishimura, Yukuo; and Nakagiri, Takashi, 4,682,897, Cl. 374-45.000.

Nishimura, Yutaka; and Oyama, Yoshishige, to Hitachi, Ltd. Air flow meter. 4,709,581, 12-1-87, Cl. 73-202.000.

Nishimura, Yutaka: *See—*

Ota, Isamu; Nishimura, Yutaka; Nishio, Shigeru; and Yogo, Kenji, 4,700,682, Cl. 123-516.000.

Yoshikawa, Yoshitaka; Tsukamoto, Masahide; Nishimura, Yutaka; Ono, Hitoshi; and Sano, Tetsuhiro, 4,679,054, Cl. 346-76.0PH.

Nishimuro, Tadashi: *See—*

Itoh, Yoshio; Ohtsuka, Hiroshi; Nishimuro, Tadashi; and Moriyama, Norio, 4,640,888, Cl. 430-323.000.

Nishimuro, Yoshiaki; Hirata, Osamu; Kano, Kuniomi; Miyakawa, Akira; Fushimoto, Hideo; and Sekine, Kazumi, to Canon Kabushiki Kaisha. Electronic equipment calendar and random daily message generator. 4,698,783, 10-6-87, Cl. 364-710.000.

Nishimuta, Kouichi; Izumi, Kazuo; and Shinsugi, Kazue, to Sumitomo Chemical Company, Ltd. Tobacco axillary bud regulating composition. 4,685,951, 8-11-87, Cl. 71-78.000.
Nishina, Kiichiro: *See*—
Kouchiwa, Taira; and Nishina, Kiichiro. 4,690,518, Cl. 350-464.000.
Nishina, Shingo, to Mitutoyo Mfg., Co., Ltd. Digital display measuring apparatus. 4,689,890, 9-1-87, Cl. 33-504.000.
Nishina, Takashi: *See*—
Katakami, Tsutomu; Fukazawa, Nobuyuki; Izuka, Hajime; Nishina, Takashi; Kamiya, Joji; Tanaka, Yasuhito; and Nakano, Takuo, 4,639,451, Cl. 514-247.000.
Nishinakagawa, Kou: *See*—
Kanno, Haruki; Tsuyoshi, Hidekazu; Nishinakagawa, Kou; Hara, Makoto; Mochida, Tetsuo; Hisaka, Tsugio; Miyaki, Munekazu; Kawarada, Minoru; and Kawarabayashi, Hideaki, 4,643,617, Cl. 405-222.000.
Nishino, Atsushi; Ikeda, Masaki; Watanabe, Yoshihiro; and Hiraka, Masahiro, to Matsushita Electric Industrial Co., Ltd. Method of forming electrically conductive circuit. 4,694,573, 9-22-87, Cl. 29-846.000.
Nishino, Atsushi: *See*—
Suzuki, Jiro; Nishino, Atsushi; Hosaka, Masato; Ono, Yukiyoshi; and Takeuchi, Yasuhiro, 4,676,737, Cl. 431-328.000.
Nishino, Fumio; Onoda, Shigeyoshi; Nomura, Akihiro; Mizutani, Morikazu; Kanemitsu, Shinji; and Toriumi, Mototada, to Canon Kabushiki Kaisha. Safety means for process kit. 4,714,337, 12-22-87, Cl. 355-3.0DR.
Nishino, Hiroshi; Okamoto, Kiyohide; and Okita, Ryosuke, to Mitsubishi Denki Kabushiki Kaisha. Electromagnetic coupling device. 4,664,238, 5-12-87, Cl. 192-84.00C.
Nishino, Hiroshi; and Okabe, Kazuo, to Toska Co., Ltd. Process for preparing conductive coating composition. 4,714,569, 12-22-87, Cl. 252-511.000.
Nishino, Hiroyuki: *See*—
Itho, Yasuo; Kato, Hideo; Ogawa, Nobuo; Yamagishi, Kagari; Koshinaka, Eiichi; and Nishino, Hiroyuki, 4,638,009, Cl. 514-428.000.
Nishino, Keigo: *See*—
Irikura, Tsutomu; Nishino, Keigo; and Nagatsu, Yoshio, 4,654,349, Cl. 514-300.000.
Irikura, Tsutomu; Nishino, Keigo; Okamura, Kyuya; and Ikeda, Toshiya, 4,680,398, Cl. 546-121.000.
Nishino, Kenichi; Kobayashi, Atsuo; Higashi, Sachio; Yamamoto, Shinichiro; and Yasuda, Kiyoshi, to Takeda Chemical Industries, Ltd. Thixotropic polyurethane resin compositions. 4,640,950, 2-3-87, Cl. 524-265.000.
Nishino, Kenji: *See*—
Imamura, Takashi; Nozaki, Toshio; Nishino, Kenji; and Kanai, Hiroyuki, 4,670,430, Cl. 514-188.000.
Nishino, Nobu: *See*—
Yoshimura, Shushichi; Hiwatashi, Yasunori; Kobayashi, Hiromu; Yamazaki, Hozo; Nishino, Nobu; Tahara, Teruji; and Kobayashi, Hidenobu, 4,693,879, Cl. 423-461.000.
Nishino, Tadashi: *See*—
Nakanori, Takayuki; Kimura, Tomoaki; and Nishino, Tadashi, 4,702,300, Cl. 164-154.000.
Nishimura, Kazuyoshi; Tabushi, Kenji; Nishino, Tadashi; and Kimura, Tomoaki, 4,655,166, Cl. 118-673.000.
Yoshida, Takashi; Kimura, Tomoaki; Nishino, Tadashi; and Saito, Sadayuki, 4,679,611, Cl. 164-431.000.
Nishino, Takaichi: *See*—
Fujita, Yasuyuki; and Nishino, Takaichi, 4,639,040, Cl. 297-379.000.
Nishino, Takashi, to Tachikawa Spring Co., Ltd. Side support device in a vehicle seat. 4,636,000, 1-13-87, Cl. 297-284.000.
Nishino, Taneharu: *See*—
Aoyagi, Koshiro; Nishino, Taneharu; and Betsuki, Kenji, 4,685,319, Cl. 72-234.000.
Nishino, Tetsuo; Okamura, Hiroko; and Yamatani, Yasunori, to Fujitsu Limited. Switching system and method for network having a plurality of terminal control equipment units. 4,672,662, 6-9-87, Cl. 379-277.000.
Nishino, Tetsuya. Paper diaper. 4,676,786, 6-30-87, Cl. 604-378.000.
Nishino, Yasuhiro: *See*—
Kuze, Katsuaki; Nishino, Yasuhiro; Matsuyama, Yujiro; Maeda, Kozo; Kobayashi, Masahiro; Okudaira, Tadashi; Hongo, Tsuyoshi; and Makimura, Osamu, 4,693,932, Cl. 428-323.000.
Nishino, Yasukazu; and Sasanuma, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Data storage apparatus. 4,670,856, 6-2-87, Cl. 364-900.000.
Nishino, Yoshimitsu; Tsuruda, Wataru; Koike, Kihachiro; and Matsuoka, Kensaku, to Japan Aviation Electronics Industry Limited; NEC Corporation; and Hirose Denki Kabushiki Kaisha. Connector. 4,678,256, 7-7-87, Cl. 439-347.000.
Nishino, Yoshimitsu: *See*—
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,388, Cl. 439-449.000.
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,681,389, Cl. 439-557.000.
Nakazawa, Akira; Kikuta, Shigeru; Koike, Kihachiro; Matsuoka, Kensaku; and Nishino, Yoshimitsu, 4,688,871, Cl. 439-357.000.
Nishino, Yoshimori; Yamamoto, Masahiko; Uda, Tadayoshi; Kondo, Kiyoshi; Kondo, Yutaka; and Kondo, Kazuo, to Hitachi Zosen Corporation. Apparatus for exposing fibrous reinforcements of fiber reinforced resin body. 4,709,714, 12-1-87, Cl. 134-89.000.
Nishio, Daijiro: *See*—
Hashitue, Masakazu; Ogawa, Masashi; and Nishio, Daijiro, 4,650,556, Cl. 204-182.700.
Nishio, Hideaki; and Tomono, Masahiko, to Kitz Corporation. Butterfly valve. 4,674,528, 6-23-87, Cl. 137-375.000.
Nishio, Hiroaki: *See*—
Miyashita, Tsuneo; Yoshikoshi, Hideyuki; Nishio, Hiroaki; and Takeuchi, Osamu, 4,636,342, Cl. 264-82.000.
Miyashita, Tsuneo; and Nishio, Hiroaki, 4,676,949, Cl. 419-32.000.
Nishio, Hisaharu; Taguchi, Kazuo; Okumura, Toshio; and Ebizawa, Akio, to NGK Spark Plug Co., Ltd. Gas sensor. 4,668,477, 5-26-87, Cl. 422-98.000.
Nishio, Hisaharu: *See*—
Taniguchi, Masato; Nishio, Hisaharu; Kawamura, Mitsuyoshi; and Okumura, Toshio, 4,672,933, Cl. 123-270.000.
Nishio, Kazuaki: *See*—
Nakajima, Kohei; Nishio, Kazuaki; and Watanabe, Hiroshi, 4,696,994, Cl. 528-176.000.
Nakano, Tsunetomo; Yasuno, Hiroshi; and Nishio, Kazuaki, 4,673,773, Cl. 174-68.500.
Nishio, Shigeru: *See*—
Hashimoto, Nobuyuki; and Nishio, Shigeru, 4,634,179, Cl. 297-284.000.
Ota, Isamu; Nishimura, Yutaka; Nishio, Shigeru; and Yogo, Kenji, 4,700,682, Cl. 123-516.000.
Nishio, Takumi; and Katayose, Takahiro, to Toshiba Ceramics Co., Ltd. Filler material for filling an outlet aperture of a casting ladle or similar container and a process for producing the filler material. 4,667,858, 5-26-87, Cl. 222-591.000.
Nishio, Tetsuo: *See*—
Matsumoto, Takahiro; Nishio, Tetsuo; Maekawa, Hirofumi; and Oota, Hisashi, 4,655,045, Cl. 62-45.000.
Nishio, Toshihiro: *See*—
Ota, Shuji; and Nishio, Toshihiro, 4,653,342, Cl. 74-473.00R.
Ota, Shuji; and Nishio, Toshihiro, 4,674,769, Cl. 280-775.000.
Nishio, Toshiyuki: *See*—
Yasue, Kazuo; Nishio, Toshiyuki; and Kosaka, Mineo, 4,671,906, Cl. 264-9.000.
Nishio, Yoshihiro: *See*—
Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; Sasaki, Toshiki; and Nishio, Yoshihiro, 4,640,887, Cl. 430-275.000.
Nishioka, Asaaki: *See*—
Sakai, Etsuo; Nishioka, Asaaki; Watanabe, Kiyosi; and Mino, Iwao, 4,708,626, Cl. 425-398.000.
Nishioka, Goro: *See*—
Sakabe, Yukio; Nishioka, Goro; and Imanari, Junichi, 4,661,462, Cl. 501-134.000.
Nishioka, Hiroyuki; and Nakanishi, Takeshi, to Shimadzu Corporation. Fluoroscopic and radiographic X-ray imaging system. 4,658,413, 4-14-87, Cl. 378-99.000.
Nishioka, Hisao: *See*—
Suzuki, Tadao; Nakamura, Shoichi; Nishioka, Hisao; and Ohkubo, Yutaka, 4,707,818, Cl. 369-58.000.
Nishioka, Itsuo: *See*—
Kooda, Akihide; Nishioka, Itsuo; Nishiyori, Takeshi; and Yahara, Shoji, 4,650,813, Cl. 514-701.000.
Nishioka, Jim Z. Projectile shooting guide for bows. 4,693,229, 9-15-87, Cl. 124-41.00A.
Nishioka, Jim Z. Projectile shooting guide for bows. 4,696,281, 9-29-87, Cl. 124-25.000.
Nishioka, Kimihiko; and Kimura, Hiroyuki, to Olympus Optical Co., Ltd. Illuminating optical system for endoscopes. 4,666,246, 5-19-87, Cl. 350-96.250.
Nishioka, Kimihiko; Takahashi, Susumu; Yokota, Akira; and Okabe, Minoru, to Olympus Optical Co., Ltd. Objective lens system for an endscope. 4,674,844, 6-23-87, Cl. 350-469.000.
Nishioka, Kimihiko; and Takahashi, Susumu, to Olympus Optical Co., Ltd. Image transmitting optical system using optical fiber bundle. 4,676,592, 6-30-87, Cl. 350-96.250.
Nishioka, Kimihiko, to Olympus Optical Co., Ltd. Illuminating optical system for endoscopes. 4,678,900, 7-7-87, Cl. 250-205.000.
Nishioka, Masato: *See*—
Furukawa, Nobuhiro; Murakami, Shuzo; and Nishioka, Masato, 4,680,240, Cl. 429-13.000.
Miyake, Yasuo; Tajima, Osamu; Nishioka, Masato; and Itoh, Yasuhiko, 4,686,157, Cl. 429-19.000.
Nishioka, Sunao; and Takemae, Mikio, to Nippon Kogaku K. K. Apparatus for fixing exposure and focus in camera. 4,707,105, 11-17-87, Cl. 354-412.000.
Nishioka, Tadashi; Koyama, Hiroshi; and Mashiko, Yoji, to Mitsubishi Denki Kabushiki Kaisha. Method of treating silicon nitride film formed by plasma deposition. 4,636,400, 1-13-87, Cl. 427-39.000.
Nishioka, Tadashi; Koyama, Hiroshi; and Mashiko, Yoji, to Mitsubishi Denki Kabushiki Kaisha. Aluminum circuit to be disconnected and method of cutting the same. 4,691,078, 9-1-87, Cl. 174-68.500.
Nishioka, Takeshi: *See*—
Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, 4,663,362, Cl. 521-134.000.
Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, 4,701,472, Cl. 521-50.500.
Nishioka, Tetsuji, to Nissan Motor Co., Ltd. Load condition determining apparatus. 4,661,717, 4-28-87, Cl. 307-10.0LS.
Nishioka, Toru; and Yamashita, Tatsumaro, to Alps Electric Co., Ltd. Multiple magnetic head rotary transducer drum for simultaneous recording and reproducing. 4,669,002, 5-26-87, Cl. 360-64.000.

Nishioka, Yasushiro; Homma, Noriyuki; Sakuma, Noriyuki; and Mukai, Kiichiro, to Hitachi, Ltd. Semiconductor device. 4,636,833, 1-13-87, Cl. 357-71.000.

Nishita, Katsuyasu: *See*—
Kudo, Katsuyoshi; Nagatomo, Katsuaki; Yamamoto, Hideji; Nishita, Katsuyasu; and Ogawa, Yoshifumi, 4,664,767, Cl. 204-164.000.

Nishita, Shigeo: *See*—
Kokubo, Masaru; Nishita, Shigeo; and Yamakido, Kazuo, 4,652,858, Cl. 340-347.0DA.

Nishitani, Kazuharu, to Mitsubishi Denki Kabushiki Kaisha. Reset circuit. 4,670,676, 6-2-87, Cl. 307-592.000.

Nishitani, Kunihiko: *See*—
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,671,750, Cl. 418-150.000.
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,695,233, Cl. 418-83.000.

Nishitani, Syozi: *See*—
Makino, Masashi; Nakada, Kunio; Muragishi, Isao; and Nishitani, Syozi, 4,635,403, Cl. 51-94.00R.
Makino, Masashi; Nakada, Kunio; Muragishi, Isao; and Nishitani, Syozi, 4,651,471, Cl. 51-3.000.

Nishitani, Takao: *See*—
Kato, Tadaharu; and Nishitani, Takao, 4,700,792, Cl. 381-46.000.

Nishitani, Yasuhiro: *See*—
Nagata, Wataru; Aoki, Tsutomu; and Nishitani, Yasuhiro, 4,705,852, Cl. 540-301.000.

Nishitani, Yasuo: *See*—
Yamada, Koichi; Kubo, Kanji; and Nishitani, Yasuo, 4,644,414, Cl. 360-10.200.

Nishiu, Masamichi: *See*—
Kayakabe, Hiroshi; Mitomi, Masaei; Miyajima, Mikio; Nakata, Shuji; Shimizu, Tadashi; Yoshito, Kazuharu; and Nishiu, Masamichi, 4,677,021, Cl. 428-306.600.

Nishiuchi, Kenichi: *See*—
Yamada, Noboru; Nagashima, Michiyoshi; and Nishiuchi, Kenichi, 4,710,911, Cl. 369-100.000.

Nishiuchi, Kihachiro; Suzue, Masayoshi; and Sakane, Koji, to Otsuka Kagaku Kabushiki Kaisha. Process for preparing fibrous alkali metal titanate. 4,652,439, 3-24-87, Cl. 423-598.000.

Nishiuchi, Kihachiro; Suzue, Masayoshi; and Sakane, Koji, to Otsuka Kagaku Kabushiki Kaisha. Method of preparing fibrous alkali metal titanate. 4,689,211, 8-25-87, Cl. 423-598.000.

Nishiuchi, Kihachiro: *See*—
Morimoto, Takuo; Nishiuchi, Kihachiro; and Wada, Kenichi, 4,647,404, Cl. 252-516.000.
Morimoto, Takuo; Nishiuchi, Kihachiro; Wada, Kenichi; Suzue, Masayoshi; and Hareyama, Yukiya, 4,655,967, Cl. 252-520.000.

Nishiuchi, Kenichi: *See*—
Yamada, Noboru; Nishiuchi, Kenichi; and Takenaga, Mutsuo, 4,659,588, Cl. 427-42.000.

Nishiumi, Shiro: *See*—
Kodama, Masashi; Tani, Toru; Hanazawa, Kazuyoshi; Oka, Totaro; Teramoto, Kazuo; and Nishiumi, Shiro, 4,661,260, Cl. 210-679.000.

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Nishiura, Masaharu, to Fuji Electric Company, Ltd. Process for fabricating a thin-film solar battery. 4,689,874, 9-1-87, Cl. 437-2.000.

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Kato, Toshiaki; Ueno, Masakazu; and Nishiura, Masaharu, 4,698,494, Cl. 250-211.00R.
Uchida, Yoshiyuki; and Nishiura, Masaharu, 4,658,233, Cl. 338-5.000.

Nishiura, Yozo: *See*—
Nishiwaki, Yoshikazu; and Nishiura, Yozo, 4,641,913, Cl. 350-96.110.

Nishiwaki, Humitoshi: *See*—
Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Ando, Toshiaki; Nishiwaki, Humitoshi; and Aoyama, Shigeo, 4,715,437, Cl. 165-151.000.

Nishiwaki, Mitsuhiro: *See*—
Hasimoto, Iwao; Maeda, Chiaki; and Nishiwaki, Mitsuhiro, 4,638,089, Cl. 564-292.000.

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Kuroda, Hideo; Mukawa, Naoki; Hiraoka, Makoto; Matsuda, Kiichi; Nishiwaki, Mitsuo; and Tsugane, Shuzo, 4,677,480, Cl. 358-136.000.
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Nishiwaki, Shigeru: *See*—
Yoshikawa, Shinichi; Nishiwaki, Shigeru; and Shimodaira, Toshiro, 4,644,239, Cl. 318-641.000.

Nishiwaki, Shoji: *See*—
Kawakami, Masanori; Nishiwaki, Shoji; and Maehara, Hidejirou, 4,669,899, Cl. 400-240.300.
Suzaki, Masayuki; Nishiwaki, Shoji; Hayashima, Toshitaka; Uezu, Kazuo; Maehara, Hidejirou; and Momose, Masanori, 4,683,478, Cl. 346-76.0PH.

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Nishiwaki, Yoshikazu: *See*—
Tada, Kunio; Nishiwaki, Yoshikazu; and Matsuoka, Shunji, 4,685,763, Cl. 350-96.140.

Nishiya, Yoshinori: *See*—
Shiraishi, Masao; Nishiya, Yoshinori; and Ito, Syoji, 4,687,804, Cl. 524-505.000.

Nishiyama, Akihide: *See*—
Takagi, Hisamitsu; Hanawa, Tetsuya; Nishiyama, Akihide; and Takashima, Yutaka, 4,700,383, Cl. 379-421.000.

Nishiyama, Akio: *See*—
Sugisawa, Taijiro; and Nishiyama, Akio, 4,693,944, Cl. 428-698.000.

Nishiyama, Hiroaki: *See*—
Inoue, Yoshimi; Seki, Mamoru; Katagiri, Mamoru; Nishiyama, Hiroaki; and Ogawa, Zenji, 4,675,339, Cl. 514-419.000.

Nishiyama, Hiroshi: *See*—
Nakagaki, Shintaro; and Nishiyama, Hiroshi, 4,647,976, Cl. 358-213.000.
Nakamura, Takeshi; Nishiyama, Hiroshi; and Matsumoto, Ikuo, 4,697,116, Cl. 310-322.000.
Takanashi, Itsuo; Miyoshi, Tadayoshi; Nakagaki, Shintaro; and Nishiyama, Hiroshi, 4,642,677, Cl. 358-43.000.

Nishiyama, Hisaki: *See*—
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,674,556, Cl. 164-454.000.
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,694,885, Cl. 164-416.000.
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Nishiyama, Kunio: *See*—
Maeda, Yoshihiko; Nogami, Toshiaki; Kashiwagi, Shigeru; Sakurai, Kenji; and Nishiyama, Kunio, 4,702,517, Cl. 296-214.000.

Nishiyama, Masaaki; and Tanaka, Atsuyuki, to Minolta Camera Kabushiki Kaisha. Character signal generator. 4,703,438, 10-27-87, Cl. 364-519.000.

Nishiyama, Masafumi: *See*—
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Nishiyama, Masaki, to Canon Kabushiki Kaisha. Pattern output apparatus. 4,712,188, 12-8-87, Cl. 364-900.000.

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Nishiyama, Michio: *See*—
Yamamoto, Tsutomu; Nishiyama, Michio; Yamamoto, Mitsuo; and Ozaki, Masaharu, 4,690,867, Cl. 428-367.000.

Nishiyama, Nobumasa; Aoi, Hajime; Tamura, Takashi; Ouchi, Yasuhide; and Saitou, Makoto, to Hitachi, Ltd. Equalizer used for magnetic storage device. 4,644,424, 2-17-87, Cl. 360-65.000.

Nishiyama, Osamu: *See*—
Fukushima, Toshiki; Endo, Yorimasa; and Nishiyama, Osamu, 4,652,419, Cl. 376-254.000.

Nishiyama, Shigeru: *See*—
Amemori, Hiroyuki; Nishiyama, Shigeru; and Iwamoto, Tetsuo, 4,694,702, Cl. 73-861.240.

Nishiyama, Shingo, to Fuji Photo Film Co., Ltd. Silver halide photographic emulsions and process for producing them. 4,683,192, 7-28-87, Cl. 430-567.000.

Nishiyama, Tadashi: *See*—
Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,647,598, Cl. 522-3.000.
Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,690,788, Cl. 264-22.000.

Nishiyama, Takaaki; and Hashimoto, Masahiro, to Hitachi, Ltd. Information processing system. 4,654,785, 3-31-87, Cl. 364-200.000.

Nishiyama, Tamotsu: *See*—
Haruna, Koichi; Nakao, Kazuo; Nishiyama, Tamotsu; Tashiro, Tsutomu; Matsumoto, Kuniaki; and Saida, Nobuyuki, 4,644,480, Cl. 364-552.000.

Nishiyama, Toshihiko: *See*—
Watanabe, Kinichiro; Horiai, Kunio; Mashiko, Tomoyuki; Kato, Hitoshi; Yamaguchi, Hiromasa; and Nishiyama, Toshihiko, 4,679,992, Cl. 417-364.000.
Nishiyama, Toshio: *See*—
Hirama, Shinichi; Nishiyama, Toshio; Ohta, Youichi; Uzuka, Makoto; Tomita, Kenichi; Nakajima, Keisuke; and Furuse, Kazumaro, 4,713,397, Cl. 514-690.000.
Nishiyama, Yoshihisa, to Tokyo Electric Co., Ltd. Load cell having a thin film strain-inducible element. 4,633,721, 1-6-87, Cl. 73-862.670.
Nishiyama, Yoshihisa; and Fujii, Noriyasu, to Tokyo Electric Co., Ltd. Analog/digital converter. 4,661,803, 4-28-87, Cl. 340-347.0NT.
Nishiyama, Yoshihisa: *See*—
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Ushijima, Yasuhiro; Kitagawa, Tohru; Ohyoshi, Sadao; and Nishiyama, Yoshihisa, 4,674,342, Cl. 73-862.650.
Nishiyama, Yuji; and Hashimoto, Masakazu, to Toyota Jidosha Kabushiki Kaisha. Belt anchor incorporating seat track structure. 4,669,782, 6-2-87, Cl. 297-473.000.
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Nishiyama, Yukinori: *See*—
Takata, Koji; Nishiyama, Yukinori; and Shinomiya, Takashi, 4,667,476, Cl. 60-545.000.
Takata, Koji; and Nishiyama, Yukinori, 4,693,521, Cl. 303-103.000.
Takata, Koji; and Nishiyama, Yukinori, 4,714,299, Cl. 303-100.000.
Nishiyama, Yukio: *See*—
Tsugaki, Shoichiro; Miyasaka, Tomoo; Nishiyama, Yukio; and Atsuta, Toshio, 4,667,543, Cl. 76-108.00A.
Nishiyodo Air Conditioner Co., Ltd.: *See*—
Matsushita, Masao; Oku, Kenzo; Nakano, Hiroki; and Okumura, Shin-ichi, 4,709,558, Cl. 62-480.000.
Nishiyori, Takeshi: *See*—
Kooda, Akihide; Nishioka, Itsuo; Nishiyori, Takeshi; and Yahara, Shoji, 4,650,813, Cl. 514-701.000.
Nishiyuki, Toshiki: *See*—
Seki, Hiroshi; and Nishiyuki, Toshiki, 4,704,370, Cl. 501-15.000.
Nishizako, Shizutaka; Kitou, Toshikazu; Shoji, Shinki; and Baba, Sadaaki, to Mitsubishi Denki Kabushiki Kaisha. Electromagnet apparatus with shortened armature release time. 4,661,883, 4-28-87, Cl. 361-159.000.
Nishizako, Shizutaka: *See*—
Mori, Teijiro; Wada, Yuichi; Nishizako, Shizutaka; Kakizoe, Masahiro; and Masuda, Shigeru, 4,652,707, Cl. 200-144.00R.
Okado, Hiroyuki; Nishizako, Shizutaka; Sako, Yuji; and Kakizoe, Masahiro, 4,654,744, Cl. 361-159.000.
Nishizawa, Hideaki, to Sumitomo Electric Industries, Ltd. Package for optical element. 4,636,647, 1-13-87, Cl. 250-551.000.
Nishizawa, Hideaki, to Sumotomo Electric Industries, Ltd. Package for optical device. 4,663,652, 5-5-87, Cl. 357-74.000.
Nishizawa, Hitoshi; and Shibata, Kazuyoshi, to NGK Insulators, Ltd. Electrochemical apparatus and method of manufacturing the same. 4,634,514, 1-6-87, Cl. 204-406.000.
Nishizawa, Hitoshi; and Mizutani, Yoshihiko, to NGK Insulators, Ltd. Method of determining concentration of a component in gases and electrochemical device suitable for practicing the method. 4,645,572, 2-24-87, Cl. 204-1.00T.
Nishizawa, Hitoshi: *See*—
Shibata, Kazuyoshi; and Nishizawa, Hitoshi, 4,639,305, Cl. 204-426.000.
Nishizawa, Jun-chi, to Semiconductor Research Foundation. Semiconductor optoelectro transducer. 4,641,167, 2-3-87, Cl. 357-30.000.
Nishizawa, Jun-ichi; Tamamushi, Takashige; and Motoya, Kaoru, to Nishizawa, Jun-ichi. Semiconductor photoelectric transducer. 4,651,180, 3-17-87, Cl. 357-22.000.
Nishizawa, Jun-ichi, to Zaidan Hojin Handotai Kenkyu Shinkokai. Method of manufacturing a semiconductor device having anhomogeneous distribution of impurity concentration. 4,668,306, 5-26-87, Cl. 148-1.500.
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Nishizawa, Jun-ichi, to Fuji Photo Film Co., Ltd. Semiconductor image sensor. 4,673,985, 6-16-87, Cl. 358-213.120.
Nisiizawa, Jun-ichi. Method of manufacturing a group II-VI compound semiconductor device having a pn junction. 4,685,979, 8-11-87, Cl. 437-81.000.
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Nishizawa, Jun-ichi; Mochida, Yasunori; Nonaka, Terumoto; and Yoshida, Takashi, to Nippon Gakki Seizo Kabushiki Kaisha. Multi-drain enhancement JFET logic (SITL) with complementary MOSFET load. 4,700,213, 10-13-87, Cl. 357-42.000.
Nishizawa, Jun-ichi: *See*—
Nakamura, Yoshio; Sugiyama, Susumo; Nishizawa, Jun-ichi; and Ohmi, Tadahiro, 4,692,789, Cl. 357-74.000.
Ohta, Yoshinori; and Nishizawa, Jun-ichi, 4,684,968, Cl. 357-30.000.
Yusa, Atsushi; Nishizawa, Jun-ichi; Suzuki, Sohbe; and Tamamushi, Takashige, 4,686,555, Cl. 357-30.000.
Nishizawa, Junichi; and Ohmi, Tadahiro, to Handotai Kenkyu Shinkokai. Integrated circuit employing insulated gate electrostatic induction transistor. 4,644,386, 2-17-87, Cl. 357-23.300.
Nishizawa, Junichi; and Tamamushi, Takashige, to Nishizawa, Junichi. Semiconductor imaging device utilizing static induction transistors. 4,651,015, 3-17-87, Cl. 250-578.000.
Nishizawa, Junichi; and Ohmi, Tadahiro, to Handotai Kenkyu Shinkokai. Insulated gate transistor having reduced channel length. 4,660,062, 4-21-87, Cl. 357-23.300.
Nishizawa, Junichi; Suzuki, Sobei; and Tamamushi, Takashige, to Nishizawa, Junichi. Static induction transistor photodetector having a deep shielding gate region. 4,684,966, 8-4-87, Cl. 357-22.000.
Nishizawa, Junichi; and Motoya, Kaoru, to Research Development Corp.; Nishizawa, Junichi; and Motoya, Kaoru. Heterojunction gate ballistic JFET with channel thinner than Debye length. 4,712,122, 12-8-87, Cl. 357-22.000.
Nishizawa, Kazunori: *See*—
Fuzita, Kazuhiro; Nishizawa, Kazunori; and Imamura, Shinzi, 4,642,838, Cl. 15-250.210.
Nishizawa, Kazutoshi; Takagi, Masashi; and Matsuoka, Akio, to Nippondenso Co., Ltd. Variable capacity vane type compressor. 4,715,792, 12-29-87, Cl. 417-295.000.
Nishizawa, Kazutoshi; Takagi, Masashi; Matsuoka, Akio; and Nomura, Fuzio, to Nippondenso Co., Ltd. Rotary compressor with clutch actuated by hydraulic fluid and compressed fluid. 4,715,800, 12-29-87, Cl. 418-69.000.
Nishizawa, Kazutoshi: *See*—
Matsuoka, Akio; Takagi, Masashi; Yoshimi, Akiro; and Nishizawa, Kazutoshi, 4,646,535, Cl. 62-228.500.
Nishizawa, Masahiro; Miura, Kiyoshi; Sasaya, Osamu, and Odaka, Yoshiyuki, to Hitachi, Ltd. Method of producing phosphor screen of color picture tube. 4,652,462, 3-24-87, Cl. 427-53.100.
Nishizawa, Masahiro; Yokomizo, Hiroshi; Miura, Kiyoshi; and Sasaya, Osamu, to Hitachi, Ltd. Process for forming phosphor screen of cathode ray tube. 4,657,961, 4-14-87, Cl. 524-297.000.
Nishizawa, Naotake: *See*—
Wakui, Akio; Usuda, Masahiro; and Nishizawa, Naotake, 4,669,307, Cl. 73-223.000.
Nishizawa, Nobuyoshi: *See*—
Tajima, Osamu; Yamada, Makoto; Hagino, Hideo; and Nishizawa, Nobuyoshi, 4,640,873, Cl. 429-24.000.
Nishizawa, Shoichi: *See*—
Kyoden, Hiroshi; Endo, Yasuhiro; Fujiwara, Teiichi; Mimura, Toshisada; Nishikawa, Kihachiro; and Nishizawa, Shoichi, 4,636,969, Cl. 364-560.000.
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Nishizawa, Taiji: *See*—
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Nishizawa, Tetsuo: *See*—
Umezu, Takao; Ishiguro, Minoru; and Nishizawa, Tetsuo, 4,641,935, Cl. 354-173.110.
Nishizawa, Tetuo: *See*—
Ishiguro, Minoru; Kamoda, Takashi; Nishizawa, Tetuo; Nakayama, Shigeo; and Yoshida, Toshio, 4,669,845, Cl. 354-288.000.
Nishizuka, Hiroshi: *See*—
Komoriya, Susumu; Nishizuka, Hiroshi; Nakagawa, Shinya; and Maejima, Hisashi, 4,699,505, Cl. 355-30.000.
Morita, Koyo; Nomura, Keizo; Nishizuka, Hiroshi; Hoshi, Tai; Tamiya, Yoichiro; and Asakawa, Terushige, 4,701,608, Cl. 250-205.000.
Nisioka, Kimihiko, to Olympus Optical Co., Ltd. Objective lens system for endoscopes. 4,662,725, 5-5-87, Cl. 350-432.000.
Niskanen, Aimo: *See*—
Pellinen, Markku; Malkki, Yrjo ; and Niskanen, Aimo, 4,637,163, Cl. 47-1.100.
Niskanen, Don L., to Teleflex Incorporated. Parklock control. 4,712,397, 12-15-87, Cl. 70-248.000.
Niskanen, Hannu, to Valmet Oy. Power transmission arrangement in a tractor. 4,633,961, 1-6-87, Cl. 180-53.700.
Niskanen, Heikki, to Oy Wartsila AB. Method and apparatus for fixing an end of a web on a core tube in a web reeling machine. 4,711,405, 12-8-87, Cl. 242-66.000.
Niskanen, Jukka: *See*—
Lankinen, Matti; Engdahl, Holger; Kohonen, Raimo; Niskanen, Jukka; and Kosonen, Markku, 4,687,583, Cl. 210-739.000.
Niskanen, Toivo J.: *See*—
Fellman, Raimo; and Niskanen, Toivo J., 4,675,033, Cl. 55-203.000.
Niske, Gerd E.; de Jongh, Albertus J. B.; and Kruger, Theunis J., to Niske, Gerd Erwin; and de Jongh, Albertus Johannes Bernardus. Sealable dispenser for individual moistened towelettes from a perforated length thereof. 4,651,895, 3-24-87, Cl. 221-63.000.
Niske, Gerd Erwin: *See*—
Niske, Gerd E.; de Jongh, Albertus J. B.; and Kruger, Theunis J., 4,651,895, Cl. 221-63.000.
Niske, Jorgen, to Tetra Pak International AB. Method for thinning regions of packing material to facilitate package assemblage. 4,645,484, 2-24-87, Cl. 493-362.000.
Niske, Jorgen, to Tetra Pak International AB. Material for packing containers. 4,711,797, 12-8-87, Cl. 428-35.000.
Niskin, Shale J.; and Williams, Gerald J., to General Oceanics, Inc. Sheave assembly with multiple pulleys used to measure cable angle. 4,690,380, 9-1-87, Cl. 254-394.000.
Niskin, Shale J. Multiple sheave assembly with angled rollers. 4,708,321, 11-24-87, Cl. 254-397.000.

Nisley, Donald L., to Reliance Electric Company: Bearing take-up frame, 4,676,670, 6-30-87, Cl. 384-247.000.
Nissan Chemical Industries, Ltd.: *See*—
Baba, Masatoshi; Tanaka, Norio; Ikai, Takasi; Nawamaki, Tsutomu; and Matsunaga, Masaji, 4,643,757, Cl. 71-86.000.
Fujikawa, Yoshihiro; Sakashita, Mitsuaki; and Tsuruzoe, Nobutomo, 4,639,444, Cl. 514-222.000.
Fujikawa, Yoshihiro; Suzuki, Mikio; Sakashita, Mitsuaki; Tsuruzoe, Nobutomo; and Miyasaka, Tadashi, 4,654,348, Cl. 514-258.000.
Iwabuchi, Takeshi; Kawahara, Masao; Kamiyama, Sakae; and Sato, Terumi, 4,657,996, Cl. 526-127.000.
Koto, Noriaki; Yukawa, Joei; and Moro, Takeo, 4,652,465, Cl. 427-216.000.
Makino, Kenzi; Akiyama, Shigeaki; Fukuda, Kenzow; and Sakata, Gozyo, 4,665,212, Cl. 560-61.000.
Morinaga, Hiroshi; Kamiyama, Sakae; and Sato, Yuzo, 4,643,986, Cl. 502-104.000.
Numata, Tatsuo; Hatanaka, Masataka; Watanabe, Junichi; Ikai, Takasi; Nawamaki, Tsutomu; and Hattori, Kenji, 4,696,694, Cl. 71-86.000.
Ota, Masanori; and Sasahara, Hitoshi, 4,715,983, Cl. 252-186.350.
Sato, Fumie, 4,677,216, Cl. 556-482.000.
Takahashi, Yasuhiro; Arai, Kazutaka; Ohara, Yoshio; Matsumoto, Hiroo; and Tsuchiya, Syuuzi, 4,709,082, Cl. 560-105.000.
Takakura, Makoto; Kondo, Susumu; and Nogami, Tatsuya, 4,666,742, Cl. 427-229.000.
Tanaka, Masato; and Ohtsuka, Kanji, 4,689,431, Cl. 562-406.000.
Tsubaki, Kazumi; Koto, Noriaki; and Maeda, Kouichi, 4,666,637, Cl. 260-543.00R.
Yamamoto, Susumu; Sato, Toshiaki; Ikai, Takasi; Oguti, Tosihiko; and Nawamaki, Tsutomu, 4,668,277, Cl. 71-92.000.
Yamamoto, Susumu; Sato, Toshiaki; Ikai, Takasi; Nawamaki, Tsutomu; and Oguti, Tosihiko, 4,689,417, Cl. 548-376.000.
[illegible] Design International, Inc.: *See*—
Ball, Stephen D., 4,703,963, Cl. 292-336.300.
[illegible]an Diesel Co., Ltd.: *See*—
Moruzumi, Ryoji; Suzuki, Yoichi; and Ameda, Kazuhiro, 4,638,883, Cl. 180-324.000.
[illegible] Motor Company: *See*—
Yoso, Kazunori; Kishi, Norimasa; and Futami, Toru, 4,637,045, Cl. 381-43.000.
[illegible] Motor Co., Ltd.: *See*—
Abe, Eiichi; and Takehara, Shin, 4,666,016, Cl. 180-291.000.
Abe, Takeshi, 4,714,408, Cl. 416-91.000.
Abo, Toshimi; and Hata, Yoshitaka, 4,640,243, Cl. 123-399.000.
Abo, Toshimi; and Ueno, Takashi, 4,671,067, Cl. 60-602.000.
Abo, Toshimi; and Ueno, Takashi, 4,672,814, Cl. 60-602.000.
Abo, Toshimi; Ueno, Takashi; and Sumizawa, Akio, 4,685,302, Cl. 60-602.000.
Akkawa, Hiroshi, 4,639,006, Cl. 280-96.100.
Akatsu, Yousuke; Yamaguchi, Hirotsugu; Fukushima, Naoto; Hano, Sunao; Sugino, Masaru; Takehara, Shin; and Matsui, Shinichi, 4,693,491, Cl. 280-688.000.
Aoki, Akio; and Sato, Mitio, 4,698,873, Cl. 15-250.210.
Aoyama, Shunichi; Fujii, Hiroshi; and Kato, Manabu, 4,703,734, Cl. 123-432.000.
Asakuno, Hiroyoshi; Mori, Kinya; Suzuki, Kiyoaki; Nishida, Mamoru; Iwai, Kenji; Tamamushi, Masahiro; and Kawasaki, Teruo, 4,638,030, Cl. 524-536.000.
Asano, Hiroyuki; Katayose, Shinji; Inoue, Hideaki; Takei, Akira; and Tamura, Minoru, 4,649,880, Cl. 123-399.000.
Asano, Masaharu, 4,660,535, Cl. 123-425.000.
Asano, Masaharu; Kawamura, Yoshihisa; and Nakamura, Koyo, 4,672,566, Cl. 364-571.000.
Eto, Koichi, 4,640,183, Cl. 98-2.010.
Eguchi, Shinsuke, 4,658,582, Cl. 60-357.000.
Endo, Hiroshi, 4,634,272, Cl. 356-5.000.
Enoh, Yoshiyuki, 4,670,845, Cl. 364-461.000.
Enoh, Yoshiyuki, 4,699,507, Cl. 356-5.000.
Enoh, Yoshiyuki, 4,716,298, Cl. 250-561.000.
Enoh, Yukihiro; Sugihara, Kunihiko; Shioyama, Giichi; Tanaka, Toshiaki; and Kawamura, Yoshihisa, 4,676,209, Cl. 123-293.000.
Fujiki, Hiroyuki; Michiura, Yoshiharu; and Abe, Masafumi, 4,700,848, Cl. 211-63.000.
Fujishiro, Takeshi; Takahashi, Sadahiro; and Kaneko, Takanobu, 4,696,489, Cl. 280-707.000.
Fujita, Masahiro; and Uemura, Yukio, 4,650,007, Cl. 173-12.000.
Fujita, Masahiro; and Uemura, Yukio, 4,691,786, Cl. 173-12.000.
Fukuhara, Hiroshige, 4,670,759, Cl. 342-389.000.
Fukuhara, Hiroshige; Takai, Hideo; Uekusa, Yasuyuki; and Kishi, Hisao, 4,672,382, Cl. 342-357.000.
Fukunaga, Yukio; Shibahata, Yasuji; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,705,130, Cl. 180-140.000.
Fukushima, Naoto, 4,650,170, Cl. 267-140.100.
Gotoh, Miyuki, 4,658,865, Cl. 139-435.000.
Gotoh, Kyugo, 4,694,797, Cl. 123-339.000.
Hara, Seinosuke; Ofuji, Hiromichi; Miisyo, Kazuyuki; Matsumoto, Yuuo; and Kato, Manabu, 4,708,101, Cl. 123-90.160.
Hara, Yoichi, 4,635,601, Cl. 123-383.000.
Harashima, Tadashi; Morita, Hideo; and Mori, Eiji, 4,700,676, Cl. 123-339.000.
Hasegawa, Masato, 4,637,367, Cl. 123-572.000.
Hatanaka, Koichi; and Sugano, Kazuhiko, 4,680,992, Cl. 74-869.000.
Hayashi, Yoshimasa, 4,633,822, Cl. 123-41.210.
Hayashi, Yoshimasa, 4,646,690, Cl. 123-90.460.
Hayashi, Yoshimasa, 4,648,356, Cl. 123-41.210.
Hayashi, Yoshimasa, 4,648,357, Cl. 123-41.270.
Hayashi, Yoshimasa; and Tamazawa, Tsuyoshi, 4,649,869, Cl. 123-41.210.
Hayashi, Yoshimasa, 4,656,974, Cl. 123-41.210.
Hayashi, Yoshimasa, 4,657,180, Cl. 237-12.30R.
Hayashi, Yoshimasa, 4,658,765, Cl. 123-41.210.
Hayashi, Yoshimasa, 4,662,318, Cl. 123-41.210.
Hayashi, Yoshimasa; and Hirano, Yoshinori, 4,667,626, Cl. 123-41.210.
Hayashi, Yoshimasa, 4,677,942, Cl. 123-41.210.
Hayashi, Yoshimasa, 4,681,179, Cl. 180-68.400.
Hayashi, Yoshimasa; and Murakami, Yasuhiro, 4,686,942, Cl. 123-41.210.
Hayashi, Yoshimasa, 4,696,261, Cl. 123-41.210.
Hayashi, Yoshimasa; Minezaki, Yutaka; Ito, Yoji; Inoue, Naoyuki; and Hirano, Yoshinori, 4,700,664, Cl. 123-41.270.
Higashiyama, Kazuhiro, 4,690,124, Cl. 123-643.000.
Hirabayashi, Hirokazu, 4,658,581, Cl. 60-322.000.
Hirabayashi, Yuji; Noguchi, Masato; and Hatanaka, Keiji, 4,691,521, Cl. 60-602.000.
Hiraiwa, Kazuyoshi, 4,635,744, Cl. 180-249.000.
Hiraiwa, Kazuyoshi, 4,638,688, Cl. 74-763.000.
Hiraiwa, Kazuyoshi, 4,653,347, Cl. 74-759.000.
Hiraiwa, Kazuyoshi, 4,653,348, Cl. 74-759.000.
Hiraiwa, Kazuyoshi, 4,658,663, Cl. 74-359.000.
Hiraiwa, Kazuyoshi, 4,660,439, Cl. 74-763.000.
Hiraiwa, Kazuyoshi, 4,674,346, Cl. 74-339.000.
Hiraiwa, Kazuyoshi, 4,693,334, Cl. 180-249.000.
Hiramoto, Yukio, 4,698,828, Cl. 377-3.000.
Hirano, Motoki; Takeuchi, Mikio; and Nakano, Kinichiro, 4,688,036, Cl. 340-825.690.
Hirano, Yoshinori; and Hayashi, Yoshimasa, 4,646,688, Cl. 123-41.270.
Hirano, Yoshinori, 4,658,766, Cl. 123-41.270.
Hirano, Yoshinori, 4,664,073, Cl. 123-41.210.
Hirano, Yoshinori; Kubozuka, Takao; and Ito, Yoji, 4,669,426, Cl. 123-41.150.
Hirano, Yoshinori; and Kubozuka, Takao, 4,694,784, Cl. 123-41.120.
Hirao, Sumio; and Maki, Kunio, 4,659,245, Cl. 403-30.000.
Honma, Masayuki, 4,681,069, Cl. 123-90.270.
Hori, Yasuaki; and Kishima, Masayoshi, 4,701,977, Cl. 16-266.000.
Hosaka, Akio; and Yamamoto, Akito, 4,640,250, Cl. 123-425.000.
Hosaka, Akio, 4,671,235, Cl. 123-352.000.
Hosaka, Akio, 4,682,667, Cl. 180-197.000.
Hosaka, Akio; and Takase, Sadao, 4,703,428, Cl. 364-424.100.
Hoshino, Shigeo, 4,672,849, Cl. 73-579.000.
Hosotani, Takashi, 4,703,819, Cl. 180-132.000.
Ichikawa, Sadao; Yokoi, Shinichi; Yasuhara, Seishi; and Kondo, Hiroshi, 4,635,594, Cl. 123-179.0BG.
Ichimaru, Yoshiro; Kobayashi, Shigeru; and Ohashi, Toshio, 4,709,751, Cl. 165-17.000.
Iijima, Yoshitaka, 4,647,069, Cl. 280-707.000.
Iijima, Yoshitaka; and Noguchi, Hiroshi, 4,706,989, Cl. 280-701.000.
Imai, Yoshio, 4,637,764, Cl. 411-5.000.
Imajo, Minoru; and Kawakita, Tsunehiro, 4,706,193, Cl. 364-424.000.
Inaba, Motohiro, 4,665,692, Cl. 60-324.000.
Inoue, Hideaki; Katayose, Shinji; Takei, Akira; and Oka, Takashi, 4,660,520, Cl. 123-399.000.
Ishii, Katsumi; Hirayama, Kanae; Matsuoka, Yoshio; and Takahashi, Kotei, 4,715,466, Cl. 180-233.000.
Ishitsubo, Kenji; and Abe, Yoshinobu, 4,697,065, Cl. 219-219.000.
Ito, Ken; and Kawabe, Taketoshi, 4,679,808, Cl. 280-91.000.
Ito, Ken; Inoue, Naoiiko; and Kawabe, Taketosi, 4,679,809, Cl. 280-91.000.
Ito, Ken; and Inoue, Naohiko, 4,690,431, Cl. 280-771.000.
Ito, Ken, 4,706,978, Cl. 280-91.000.
Iwamoto, Hiroshi; and Taguchi, Yoshio, 4,665,867, Cl. 123-41.280.
Iwanaga, Kazuyoshi, 4,693,141, Cl. 74-606.00R.
Iwano, Hiroshi; Yamamoto, Tadahiro; Ota, Tadaki; Ogane, Hiroshi; Ohnishi, Eiichi; and Yonezawa, Atsushi, 4,699,110, Cl. 123-472.000.
Iwasa, Yoshio, 4,633,670, Cl. 60-603.000.
Iwasa, Yoshio, 4,658,586, Cl. 60-602.000.
Kai, Yasuaki; Sagawa, Takatoshi; and Tabata, Hiroshi, 4,709,988, Cl. 350-276.00R.
Kakimoto, Toshihiko, 4,657,219, Cl. 248-562.000.
Kamijo, Ken; Shimizu, Kenzo; and Ueno, Hiroshi, 4,655,503, Cl. 297-238.000.
Kamiya, Yoshinori, 4,634,174, Cl. 296-195.000.
Kasai, Junichi; and Imai, Hiroshi, 4,641,344, Cl. 381-57.000.
Kasai, Junichi; Imai, Hiroshi; and Tsuda, Hiroshi, 4,694,497, Cl. 381-63.000.
Kasai, Junichi; Imai, Hiroshi; and Tsuda, Hiroshi, 4,703,502, Cl. 381-24.000.
Kasanami, Mitsuru; and Tamura, Hideyuki, 4,706,632, Cl. 123-492.000.
Kasuga, Nobuo; and Hori, Hide[illegible], 4,650,239, Cl. 296-84.00R.
Kato, Masaki; and Yamazaki, Tsutomu, 4,694,798, Cl. 123-339.000.
Kato, Takatsugu; and Takahashi, Takao, 4,711,273, Cl. 139-116.000.
Katou, Yuuji; and Yoshida, Kiyoshi, 4,658,929, Cl. 180-175.000.
Katou, Yuuji, 4,660,672, Cl. 180-175.000.
Kawabe, Taketoshi; and Ito, Ken, 4,706,979, Cl. 280-91.000.
Kawabe, Taketosi; and Ito, Ken, 4,706,771, Cl. 180-142.000.

Kawai, Akio; Ito, Ken; and Iwamoto, Hideo, 4,639,676, Cl. 324-380.000.
Kawajiri, Mitugu, 4,673,005, Cl. 139-435.000.
Kawakita, Tsunehiro; and Imajo, Minoru, 4,694,793, Cl. 123-196.00S.
Kawamura, Yoshihisa; and Fukuzumi, Shuzo, 4,640,249, Cl. 123-425.000.
Kikkawa, Masatoshi, 4,694,926, Cl. 180-132.000.
Kikuchi, Kazuhiro, 4,691,676, Cl. 123-399.000.
Kita, Toru, 4,646,576, Cl. 73-862.360.
Kita, Toru, 4,711,134, Cl. 73-862.360.
Kitahara, Tsuyoshi, 4,658,790, Cl. 123-440.000.
Kobari, Yuji; and Miyamoto, Keiichi, 4,678,056, Cl. 180-247.000.
Kobayashi, Toshio, 4,697,297, Cl. 15-250.230.
Komatsu, Hiroshi; and Yamane, Ken, 4,676,667, Cl. 384-99.000.
Komatsu, Hiroshi; and Nishiguchi, Fumio, 4,678,397, Cl. 415-151.000.
Kondo, Nobuaki, 4,685,716, Cl. 296-63.000.
Kondo, Nobuaki, 4,708,385, Cl. 296-65.00R.
Kubo, Jun, 4,656,588, Cl. 364-426.000.
Kubo, Jun, 4,660,146, Cl. 364-426.000.
Kubo, Jun, 4,663,715, Cl. 364-426.000.
Kubo, Jun, 4,663,716, Cl. 364-426.000.
Kubo, Jun, 4,665,491, Cl. 364-424.000.
Kubo, Jun, 4,669,045, Cl. 364-426.000.
Kubo, Jun, 4,669,046, Cl. 364-426.000.
Kubo, Jun, 4,674,049, Cl. 364-426.000.
Kubo, Jun, 4,674,050, Cl. 364-426.000.
Kubo, Jun, 4,679,146, Cl. 364-426.000.
Kubo, Jun, 4,680,713, Cl. 364-426.000.
Kubo, Jun, 4,680,714, Cl. 364-426.000.
Kubo, Jun, 4,682,295, Cl. 364-426.000.
Kubo, Jun, 4,704,684, Cl. 364-426.000.
Kubota, Hitoshi, 4,633,757, Cl. 91-32.000.
Kubota, Hitoshi; and Nakagawa, Keiji, 4,658,942, Cl. 192-13.00A.
Kubota, Hitoshi; and Oda, Hideaki, 4,659,150, Cl. 303-6.00C.
Kubota, Hitoshi; and Oda, Hideaki, 4,664,452, Cl. 303-22.00R.
Kubozuka, Takao, 4,662,316, Cl. 123-41.150.
Kumura, Haruyoshi; Abo, Keiju; Hirano, Hiroyuki; Yamamuro, Sigeaki; and Nakano, Masaki, 4,679,466, Cl. 74-863.000.
Kurata, Hidenori, 4,633,731, Cl. 74-492.000.
Kuroki, Junsuke; and Sugasawa, Fukashi, 4,674,767, Cl. 280-707.000.
Kuroki, Junsuke; and Sugasawa, Fukashi, 4,686,626, Cl. 364-426.000.
Matsuda, Koichi; Kondo, Nobuaki; and Tanaka, Yuji, 4,635,890, Cl. 248-429.000.
Matsuda, Toshiro, 4,637,663, Cl. 303-106.000.
Matsuda, Toshiro, 4,660,896, Cl. 303-106.000.
Matsuda, Toshiro, 4,662,686, Cl. 303-106.000.
Matsuda, Toshiro, 4,667,176, Cl. 340-52.00F.
Matsuda, Toshiro, 4,676,353, Cl. 192-13.00R.
Matsuda, Toshiro, 4,683,537, Cl. 364-426.000.
Matsuda, Toshiro, 4,685,746, Cl. 303-106.000.
Matsuda, Toshiro, 4,701,854, Cl. 364-426.000.
Matsuda, Toshiro, 4,707,758, Cl. 361-18.000.
Matsuda, Toshiro, 4,709,341, Cl. 364-550.000.
Matsumura, Toshio; and Oshiage, Katsunori, 4,660,440, Cl. 74-866.000.
Matsumura, Toshio; and Oshiage, Katsunori, 4,670,843, Cl. 364-424.100.
Matsuno, Yoshio; Miyamoto, Toshio; and Morita, Hideyo, 4,707,505, Cl. 523-203.000.
Mihara, Teruyoshi, 4,686,551, Cl. 357-23.400.
Mihara, Teruyoshi, 4,697,201, Cl. 357-41.000.
Miura, Noboru; and Havashi, Yoshimasa, 4,658,764, Cl. 123-41.120.
Miyamoto, Takeshi; Ura, Mikio; Kazama, Shigenori; Kase, Takao; and Maeda, Yoshiko, 4,645,307, Cl. 350-357.000.
Miyasaka, Masashi, 4,665,804, Cl. 98-2.000.
Mochida, Haruo, 4,633,724, Cl. 74-471.00R.
Mochida, Haruo; and Namazue, Hirotoshi, 4,638,292, Cl. 340-63.000.
Mochida, Haruo; Nakano, Kinichiro; Takeuchi, Mikio; and Hirano, Motoki, 4,672,375, Cl. 340-825.310.
Mori, Yasushi, 4,674,458, Cl. 123-333.000.
Mori, Yasushi, 4,680,988, Cl. 74-866.000.
Mori, Yasushi, 4,694,796, Cl. 123-325.000.
Mori, Yasushi, 4,694,807, Cl. 123-501.000.
Morita, Tatsuo, 4,658,789, Cl. 123-422.000.
Morita, Tatsuo, 4,679,536, Cl. 123-425.000.
Morita, Tatsuo, 4,694,800, Cl. 123-425.000.
Muraishi, Masakazu, 4,695,097, Cl. 297-452.000.
Murakami, Koichi, 4,706,374, Cl. 437-225.000.
Murakami, Terukiyo, 4,641,622, Cl. 123-479.000.
Muramatsu, Kunihiro, 4,678,998, Cl. 324-427.000.
Murasugi, Takashi; Suga, Masaaki; and Niikura, Yasuhiro, 4,640,395, Cl. 192-3.310.
Muto, Yoshihiko; Ohashi, Toshio; and Adachi, Tsunenari, 4,691,862, Cl. 237-12.30A.
Nagashima, Hideyuki, 4,714,274, Cl. 280-801.000.
Nakagawa, Toyoaki, 4,706,633, Cl. 123-491.000.
Nakagawa, Toyoaki; and Kai, Shisei, 4,707,241, Cl. 204-406.000.
Nakajima, Yasuo; Yoshimura, Tooru; and Terakasa, Katsunori, 4,651,693, Cl. 123-306.000.
Nakajima, Yuji; and Yamamoto, Akito, 4,693,221, Cl. 123-425.000.
Nakamura, Kenji; Shibahata, Yasuji; Fukunaga, Yukio; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,669,567, Cl. 180-140.000.
Nakamura, Makoto, 4,688,525, Cl. 123-90.550.
Nakamura, Makoto; Takahashi, Mitsuru; Osawa, Namieki; and Murakami, Yuichi, 4,713,044, Cl. 474-135.000.
Nakamura, Masashi; Takagi, Yasuo; and Urakawa, Haruki, 4,650,729, Cl. 429-61.000.
Nakano, Masaki; Yamamuro, Sigeaki; Hirano, Hiroyuki; Abo, Keiju; and Kumura, Haruyoshi, 4,651,776, Cl. 137-625.690.
Nakata, Moritsune; Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Higuchi, Megumu; Aoyama, Yutaka; and Shibahata, Yasuji, 4,634,135, Cl. 280-90.000.
Narita, Katsuyuki, 4,663,980, Cl. 74-422.000.
Nishiguchi, Fumio; Noguchi, Masato; and Hatanaka, Keiji, 4,679,398, Cl. 60-602.000.
Nishii, Shigetoshi; Matsuoka, Toshimitsu; Tsuchida, Toshio; and Hosaka, Atsushi, 4,657,296, Cl. 296-1.00C.
Nishioka, Tetsuji, 4,661,717, Cl. 307-10.0LS.
Nose, Toshimitsu, 4,646,532, Cl. 62-212.000.
Nozawa, Koji; and Mizukoshi, Yukio, 4,642,985, Cl. 60-435.000.
Obayashi, Hiroaki; Kobayashi, Hiroshi; and Takeuchi, Kiyoshi, 4,677,595, Cl. 367-13.000.
Obayashi, Hiroaki; and Kobayashi, Hiroshi, 4,677,599, Cl. 367-99.000.
Ogawa, Naoki, 4,651,691, Cl. 123-195.00H.
Ogawa, Naoki, 4,662,317, Cl. 123-41.210.
Ohashi, Toshio; Ichimaru, Yoshiro; Ishimaru, Junpei; and Hagikura, Hirofumi, 4,660,461, Cl. 98-2.010.
Ohashi, Toshio; and Yamamoto, Shukou, 4,682,208, Cl. 357-81.000.
Ohmura, Yutaka; and Shimura, Ryouji, 4,674,788, Cl. 296-1.00S.
Omori, Kiyoshi, 4,712,826, Cl. 296-93.000.
Omura, Hideo; Kaminaga, Toshiyuki; and Takei, Hirofumi, 4,645,031, Cl. 181-232.000.
Ookubo, Takao; Baba, Yuko; and Kamihama, Kiyoshi, 4,641,890, Cl. 301-37.0SS.
Oshiage, Katsunori, 4,637,280, Cl. 74-866.000.
Oshiage, Katsunori, 4,649,486, Cl. 364-424.100.
Oshiage, Katsunori, 4,653,621, Cl. 192-0.032.
Oshiage, Katsunori, 4,702,128, Cl. 74-866.000.
Ozaki, Kiyotaka; Torii, Shuuji; Jindo, Tomio; and Imaseki, Takashi, 4,679,463, Cl. 74-711.000.
Saito, Shintaro; and Ohkuma, Genji, 4,669,146, Cl. 16-18.00A.
Sakai, Mikio; and Naka, Masaru, 4,663,105, Cl. 264-66.000.
Sakata, Masao, 4,703,429, Cl. 364-426.000.
Sakurai, Yukio; and Doi, Koichi, 4,653,689, Cl. 237-12.30B.
Saotome, Masaru; Saigo, Fumitaka; and Kokubun, Hitoshi, 4,664,408, Cl. 280-689.000.
Sasaki, Michiaki, 4,671,071, Cl. 62-54.000.
Sasaki, Michiaki; and Ohno, Junya, 4,714,171, Cl. 220-85.0VR.
Sasaki, Naoto, 4,690,572, Cl. 384-120.000.
Sato, Yoshimi, 4,664,413, Cl. 280-801.000.
Sato, Yoshimi, 4,691,939, Cl. 280-806.000.
Segoshi, Toru; and Nomoto, Takasi, 4,656,563, Cl. 362-61.000.
Segoshi, Toru, 4,694,191, Cl. 307-10.0LS.
Sekine, Yoshitada; Yokota, Fumiki; and Kubota, Hisashi, 4,715,709, Cl. 356-237.000.
Seko, Yasutoshi; and Abe, Yuichi, 4,692,798, Cl. 358-93.000.
Shibahata, Yasuji; Tsubota, Yasumasa; and Uno, Takaaki, 4,640,379, Cl. 180-140.000.
Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,666,013, Cl. 180-141.000.
Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,705,131, Cl. 180-140.000.
Shigesada, Masaaki; and Kazama, Norio, 4,648,648, Cl. 296-37.10.
Shimada, Kiyoshi, 4,655,728, Cl. 464-28.000.
Shimada, Yukio; Obata, Yutaka; Takeoka, Takahisa; and Katoh, Toyotoshi, 4,658,595, Cl. 62-179.000.
Shimonosono, Hitoshi, 4,664,072, Cl. 123-41.210.
Shimonosono, Hitoshi; Ogawa, Naoki; Fujigaya, Kazuyuki; and Minezaki, Yutaka, 4,669,427, Cl. 123-41.270.
Shimura, Ryoji; and Seko, Osamu, 4,634,156, Cl. 292-216.000.
Shinzawa, Motohiro; and Ushimura, Shoji, 4,662,172, Cl. 60-303.000.
Shioyama, Giichi; Sugihara, Kunihiko; Etoh, Yukihiro; Tanaka, Toshiaki; and Kawamura, Yoshihisa, 4,662,330, Cl. 123-269.000.
Sugano, Kazuhiko, 4,665,776, Cl. 74-867.000.
Sugano, Kazuhiko; and Hayasaki, Koichi, 4,667,783, Cl. 192-4.00A.
Sugasawa, Fukashi, 4,652,010, Cl. 280-707.000.
Sugasawa, Fukashi, 4,673,194, Cl. 280-707.000.
Suzuki, Kunihiko; and Enomoto, Koji, 4,669,569, Cl. 180-249.000.
Suzuki, Morio, 4,662,432, Cl. 165-41.000.
Suzuki, Tadashi; Futami, Toru; and Sakagami, Atsushi, 4,674,084, Cl. 370-85.000.
Suzuki, Tadashi; Futami, Toru; and Sakagami, Atsushi, 4,694,294, Cl. 340-825.140.
Suzuki, Tadashi; Tomikashi, Minoru; Futami, Toru; and Sakagami, Atsushi, 4,706,245, Cl. 370-85.000.
Suzuki, Tadashi; Okada, Kazuyoshi; and Abe, Noriyuki, 4,712,211, Cl. 370-100.000.
Tabata, Toshikazu; Fujiwara, Yoshinari; Yoda, Norio; and Aikawa, Hiroshi, 4,679,778, Cl. 267-140.100.
Tabata, Toshiyuki, 4,673,156, Cl. 248-559.000.

Tabata, Toshiyuki; Aikawa, Hiroshi; Fujiwara, Yoshinari; and Yoda, Norio, 4,708,329, Cl. 267-140.100.
Taguchi, Hiromi, 4,712,708, Cl. 220-319.000.
Takahashi, Nobutaka, 4,690,116, Cl. 123-425.000.
Takahashi, Teruo, 4,669,501, Cl. 137-576.000.
Takahashi, Tohru; and Kurami, Kunihiko, 4,639,652, Cl. 318-568.000.
Takase, Sadao; Kawamura, Yoshihisa; and Nakagawa, Toyoaki, 4,669,440, Cl. 123-494.000.
Takatsuji, Kouichi; and Takasaki, Masaru, 4,674,014, Cl. 362-80.000.
Takeda, Hitoshi, 4,691,285, Cl. 364-424.100.
Takeda, Hitoshi; and Takase, Sadao, 4,715,145, Cl. 74-731.000.
Takehara, Shin, 4,637,584, Cl. 248-559.000.
Takehara, Shin, 4,709,779, Cl. 180-300.000.
Takizawa, Satoshi, 4,658,787, Cl. 123-418.000.
Takizawa, Satoshi, 4,691,812, Cl. 192-3.300.
Tamura, Kinichi; Sekine, Yoshitada; and Yokota, Fumiki, 4,669,168, Cl. 29-429.000.
Tamura, Kinichi; Kawada, Susumu; Sekine, Yoshitada; Abe, Kazuyoshi; Ishikawa, Ryosuke; and Yokota, Fumiki, 4,691,905, Cl. 269-45.000.
Tamura, Masaki, 4,676,517, Cl. 280-5.00A.
Tanaka, Haruto; and Kawabata, Kazunobu, 4,659,104, Cl. 280-707.000.
Tanaka, Toshitaki; and Sugihara, Kunihiko, 4,635,598, Cl. 123-293.000.
Taniguchi, Fumio; and Matsuno, Tomio, 4,705,099, Cl. 165-12.000.
Taniguchi, Yoshiyuki; and Hirano, Motoki, 4,670,746, Cl. 340-825.310.
Tateoka, Yasuo; Uemura, Ryuzo; and Sagawa, Takatoshi, 4,708,908, Cl. 428-423.100.
Terasaka, Katsunori; Sunbuichi, Hiroshi; and Nakagawa, Toyoaki, 4,712,529, Cl. 123-492.000.
Toyama, Takashi; Ohno, Masashi; Ishii, Kiminori; Yamamoto, Shosaku; and Kakinuma, Kazuo, 4,707,381, Cl. 427-407.100.
Tsuchiya, Masuo, 4,705,132, Cl. 180-148.000.
Tsunoda, Katsuya; and Okuyama, Hiroo, 4,668,004, Cl. 296-70.000.
Uchida, Katsuyoshi, 4,634,159, Cl. 292-336.300.
Ueno, Takashi; and Abo, Toshimi, 4,651,561, Cl. 73-115.000.
Ueno, Takashi; Abo, Toshimi; and Sumizawa, Akio, 4,660,382, Cl. 60-602.000.
Ueno, Takashi; and Abo, Toshimi, 4,697,422, Cl. 60-602.000.
Ueno, Takashi; and Abo, Toshimi, 4,698,972, Cl. 60-602.000.
Ueno, Takashi; Abo, Toshimi; and Miyamura, Katsunori, 4,702,080, Cl. 60-602.000.
Ueno, Takashi; and Abo, Toshimi, 4,709,553, Cl. 60-602.000.
Ugawa, Satoru; and Obuchi, Satoshi, deceased, 4,669,221, Cl. 49-352.000.
Ugawa, Satoru; and Obuchi, Satoshi, deceased, 4,680,892, Cl. 49-374.000.
Ushihara, Hiroshi; Nishijima, Hirotaka; Ugawa, Satoru; Kinoshita, Tomotaka; and Obushi, Satoshi, deceased, 4,669,222, Cl. 49-374.000.
Ueno, Takaaki, 4,687,214, Cl. 280-91.000.
Ueno, Takaaki; Dan, Takuya; and Orikawa, Michihiro, 4,702,346, Cl. 181-207.000.
Ura, Shozabu; and Iwasa, Yoshio, 4,643,136, Cl. 123-52.00M.
Ura, Syouzabu; Kikuchi, Tsutomu; and Yasuda, Makoto, 4,700,666, Cl. 123-52.0MB.
Ura, Syouzabu; Yasuda, Makoto; and Ooki, Yoshitaka, 4,712,532, Cl. 123-572.000.
Uehiro, Masayuki, 4,691,742, Cl. 139-1.00R.
Wakai, Shinzi, 4,640,316, Cl. 139-1.00R.
Wagi, Youichi, 4,667,540, Cl. 74-866.000.
Yamaguchi, Hirotsugu; Fukushima, Naoto; Akatsu, Yohsuke; and Hano, Sunao, 4,702,490, Cl. 280-707.000.
Yamamori, Takahiro; Takagi, Yasuo; and Furukawa, Junichi, 4,677,878, Cl. 74-861.000.
Yamanoi, Toshimi; and Tokugawa, Osamu, 4,676,556, Cl. 297-473.000.
Yamai, Tokiyoshi; Nakayama, Masafumi; Aoyama, Yutaka; and Wakasta, Moritsune, 4,650,019, Cl. 180-79.100.
Yamai, Tokiyoshi; Yamaguchi, Hirotsugu; Nakayama, Masafumi Higuchi, Megumu; Aoyama, Yutaka; and Nakata, Moritsune, 4,669,360, Cl. 91-382.000.
Yasuda, Makoto; Nishimura, Shuichi; and Ura, Syouzabu, 4,715,329, Cl. 123-52.0MV.
Yasuhara, Seishi; Kobayashi, Hiroshi; Kita, Toru; and Saito, Hideyuki, 4,646,070, Cl. 340-603.000.
Yasuhara, Seishi, 4,671,224, Cl. 123-145.00A.
Yazawa, Shinichi; Itoh, Tsuneo; Yasuhara, Seishi; and Kondo, Hiroshi, 4,661,686, Cl. 219-270.000.
Yazawa, Haruo; Nishiyama, Masafumi; Nakamura, Katsuyuki; and Ishigami, Kazuhiro, 4,656,993, Cl. 123-643.000.
Yoshida Shatai Company, Limited: *See*—
Komata, Mitsuo; and Yamashita, Yutaka, 4,712,446, Cl. 74-492.000.
Yoshida, Noriaki, 4,681,153, Cl. 165-31.000.
Yui, Yasuo; Minami, Tatsuo; and Kawamo, Kazunori, 4,662,109, Cl. 49-214.000.
Yuasa ASB Machine Co., Ltd.: *See*—
Aoki, Daiichi; Nakamura, Yoshinori; Orimoto, Hiroyuki; and Machida, Kazumi, 4,680,208, Cl. 428-35.000.
Yuasa Service Co., Ltd.: *See*—
Ito, Michio; Kambayashi, Kiyoshi; and Takezawa, Junichi, 4,677,015, Cl. 428-201.000.
Nissen, Dietmar: *See*—
Fischer, Juergen; Zeiner, Hartmut; Nissen, Dietmar; Heinz, Gerhard; and Neumann, Peter, 4,649,080, Cl. 428-419.000.
Nissen, Hans, to Aerzener Maschinenfabrik GmbH. Roots compressor for compressing of gaseous media, 4,652,223, 3-24-87, Cl. 418-206.000.
Nissen, Harry S., to Danfoss A/S. Oil feeding apparatus for a rotary compressor, 4,712,986, 12-15-87, Cl. 418-63.000.
Nissen, Robert C.: *See*—
Brody, George C.; Ma, Francis K.; Nissen, Robert C.; Taylor, Theodore; Patel, Raju; and Ziesman, Craig A., 4,670,899, Cl. 379-60.000.
Nissenbaum, Benjamin: *See*—
Gansloser, Helmut; and Nissenbaum, Benjamin, 4,698,098, Cl. 106-18.360.
Nissenson, Bilha: *See*—
Fenster, Paul; Shimoni, Yair; Nissenson, Bilha; and Alperin, Noam, 4,641,352, Cl. 382-6.000.
Shimoni, Yair; Fenster, Paul; and Nissenson, Bilha, 4,692,864, Cl. 364-414.000.
Nissha Printing Co., Ltd.: *See*—
Hatakeyama, Hiroshi; Ogawa, Masayuki; Matsumura, Kozo; and Nakagawa, Eiji, 4,663,192, Cl. 427-108.000.
Sumi, Takao; Matoba, Takashi; Shimamoto, Kouichirou; and Inako, Yoshihide, 4,662,966, Cl. 156-230.000.
Nisshin Chemical Industry Co., Ltd.: *See*—
Fukumoto, Masafumi, 4,671,343, Cl. 165-162.000.
Nisshin Chemicals Co., Ltd.: *See*—
Ueno, Masao; and Kubota, Hironori, 4,666,919, Cl. 514-309.000.
Nisshin-Dca Foods Inc.: *See*—
Abe, Kazuo; and Shimamura, Akira, 4,648,828, Cl. 425-288.000.
Nisshin Flour Milling Co., Ltd.: *See*—
Otake, Noboru; Seto, Haruo; Sasaki, Tetsuo; Sugita, Masanori; and Hiramoto, Shigeru, 4,649,135, Cl. 514-183.000.
Tahara, Yoshiyuki; Nagai, Michiko; Kogure, Katsura; Kawase, Shigeo; and Yamaguchi, Teruhito, 4,642,314, Cl. 514-475.000.
Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,645,862, Cl. 564-370.000.
Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,658,063, Cl. 564-367.000.
Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,700,002, Cl. 564-367.000.
Takahashi, Toshihiro; Sueda, Noriyoshi; Tsuji, Masahiro; Tahara, Yoshiyuki; Koyama, Hiroyasu; Suzuki, Yoshikuni; Nagase, Masao; and Sugai, Toshiji, 4,659,833, Cl. 546-142.000.
Ueno, Masao; and Kubota, Hironori, 4,666,919, Cl. 514-309.000.
Nisshin Kohki Co., Ltd.: *See*—
Inoue, Toshiyuki, 4,682,016, Cl. 235-462.000.
Nisshin Seiki Kabushiki Kaisha: *See*—
Kobayashi, Minoru, 4,711,257, Cl. 134-56.00R.
Nisshin Spinning Co., Ltd.: *See*—
Hongu, Tatsuya; Suzuki, Toshio; Ogawa, Yoshihiko; and Itoh, Takeshi, 4,689,357, Cl. 521-176.000.
Nisshin Steel Co., Ltd.: *See*—
Deguchi, Takenori; Uchida, Kazuko; Ikita, Takao; Maruhaski, Shigeaki; Hoshino, Kazuo; and Oosaki, Keiji, 4,696,724, Cl. 204-27.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,674,443, Cl. 118-733.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,676,999, Cl. 427-250.000.
Maruhashi, Shigeaki; Hoshino, Kazuo; Uematsu, Yoshihiro; Miyakusu, Katsuhisa; and Fujimura, Takehiko, 4,652,428, Cl. 420-42.000.
Masuhara, Kenichi; Yamayoshi, Kazuo; and Wakabayashi, Kouji, 4,695,516, Cl. 428-623.000.
Masuhara, Kenichi; Yamayoshi, Kazuo; and Wakabayashi, Kouji, 4,702,968, Cl. 428-623.000.
Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, 4,657,641, Cl. 204-1.00T.
Nakamura, Hajime; Iwase, Masanori; Ichise, Eiji; Moriya, Takaharu; and Maruhashi, Shigeaki, 4,708,783, Cl. 204-423.000.
Nakanori, Takayuki; Kimura, Tomoaki; and Nishino, Tadashi, 4,702,300, Cl. 164-154.000.
Nishimura, Kazuyoshi; Tabushi, Kenji; Nishino, Tadashi; and Kimura, Tomoaki, 4,655,166, Cl. 118-673.000.
Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.
Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; and Wada, Tetsuyoshi, 4,643,131, Cl. 118-718.000.

Nisshinbo Industries, Inc.: *See—*
Sato, Yoshihiko; Ohishi, Fujio; Hongu, Tatsuya; Suzuki, Toshio; and Ogawa, Yoshihiko, 4,652,495, Cl. 428-425.500.

Nissho Corporation: *See—*
Hattori, Hiroyuki; Uemura, Takashi; and Yamauchi, Toshio, 4,701,305, Cl. 422-73.000.

Nissho Iwai American Corporation: *See—*
Timineri, Anthony A., 4,691,207, Cl. 343-766.000.

Nissho Seiko Kabushiki Kaisha: *See—*
Ohno, Seishichi, 4,714,387, Cl. 409-51.000.

Nissin Electric Co., Ltd.: *See—*
Aoki, Masahiko, 4,662,312, Cl. 118-688.000.
Suzuki, Yasuo; and Ando, Yasunori, 4,683,149, Cl. 427-38.000.

Nissin-High Voltage Co., Ltd.: *See—*
Yamawaki, Masakatsu; Sakamoto, Isamu; Mizusawa, Kenichi; and Iwamoto, Eiji, 4,642,467, Cl. 250-492.300.

Nissin Kogyo Kabushiki Kaisha: *See—*
Hachiro, Nobuaki, 4,651,529, Cl. 60-562.000.
Mizusaki, Yoshinobu, 4,667,466, Cl. 60-578.000.
Mizusawa, Mitutoyo; and Horiuchi, Makoto, 4,642,990, Cl. 60-554.000.
Takeuchi, Hiroo; and Hachiro, Nobuaki, 4,669,268, Cl. 60-591.000.

Nissin Kohki Co. Ltd.: *See—*
Kato, Takaaki, 4,647,771, Cl. 250-237.00R.

Nissinen, Martti: *See—*
Lehtikoski, Olavi; and Nissinen, Martti, 4,678,325, Cl. 356-73.000.

Nissl, Norbert: *See—*
Groessler, Peter; and Nissl, Norbert, 4,667,598, Cl. 102-215.000.
Grossler, Peter; and Nissl, Norbert, 4,638,130, Cl. 200-61.45R.

Nisso Sangyo Co., Ltd.: *See—*
Ono, Tatsuo; and Kuramoto, Kikuzo, 4,646,928, Cl. 220-6.000.
Ono, Tatsuo; Masuda, Akira; and Kuramoto, Kikuzo, 4,684,034, Cl. 220-6.000.

Nisson Motor Co., Ltd.: *See—*
Matsumura, Toshio, 4,713,987, Cl. 74-866.000.

Nist, Alfred: *See—*
Sebald, Georg; and Nist, Alfred, 4,654,814, Cl. 364-604.000.

Nistri, Ugo; Baroffio, Romano; Ghisu, Giuseppe; Chiellini, Enzo; Padula, Giorgio; and Fonzi, Giorgio, to Mira Lanza S.p.A. Apparatus for uniformly distributing a disintegrated fibrous material on a fiber layer forming surface in plants for the dry forming of paper. 4,650,409, 3-17-87, Cl. 425-82.100.

Nisus Video, Inc.: *See—*
Swinehart, Steven L., 4,643,548, Cl. 352-216.000.

Nitadori, Yoshiaki; and Nakano, Toru, to Asahi Medical Co., Ltd. Plasma separator and a process for preparing the same. 4,696,748, 9-29-87, Cl. 210-636.000.

Nitanda, Hiroshi: *See—*
Kanemitsu, Shinji; and Nitanda, Hiroshi, 4,636,065, Cl. 355-75.000.
Saito, Takashi; Nitanda, Hiroshi; Inuzuka, Tsuneki; Tokuhara, Mitsuhiro; and Honda, Haruhisa, 4,702,586, Cl. 355-3.00R.

Nitchev, Peter T.: *See—*
Savov, Svetoslav A.; Mintchev, Mintcho S.; Nitchev, Peter T.; and Shivarov, Georgi S., 4,648,952, Cl. 204-192.120.

Nitchman, Harold L.; and Cunningham, William B., Jr. Dispensing container closure. 4,678,101, 7-7-87, Cl. 222-82.000.

Nite-Striker Company, Inc., The: *See—*
Mills, Kenneth L., 4,697,375, Cl. 43-17.500.

Nitex GmbH: *See—*
Anger, Wolfgang, 4,674,205, Cl. 36-44.000.

Nithart, Henri; and Graftiaux, Robert, to Alsthom; and R. Graftiaux. Taping machine for hot taping an electrical conductor. 4,707,214, 11-17-87, Cl. 156-392.000.

Nitowski, Ronald: *See—*
Thomas, Stephen M.; and Nitowski, Ronald, 4,682,837, Cl. 439-344.000.

Nitro Nobel AB: *See—*
Ehrnstrom, Hans, 4,711,678, Cl. 149-2.000.
Lande, Goran; and Persson, Bendt, 4,641,775, Cl. 228-2.500.
Lofgren, Lars-Gunnar, 4,714,018, Cl. 102-275.700.
Persson, Bengt, 4,669,649, Cl. 228-107.000.

Nitrokemia Ipartelepek: *See—*
Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.
Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.

Nitsch, Albert R.: *See—*
Heaney, William F.; and Nitsch, Albert R., 4,670,133, Cl. 208-131.000.

Nitsch, Manfred: *See—*
Modic, Fedor; Leibfried, Wolfgang; Nitsch, Manfred; Spitzenberger, Kurt; and Zimmermann, Herbert, 4,640,739, Cl. 156-659.100.

Nitsch, Reinhold. Paint can handle and spout attachment. 4,702,395, 10-27-87, Cl. 222-109.000.

Nitsch, Wilhelm; and Benker, Gerhard, to Agfa-Gevaert Aktiengesellschaft. Copier for photographic originals having different sizes. 4,647,190, 3-3-87, Cl. 355-55.000.

Nitsch, Wilhelm: *See—*
Rauskolb, Wilfried; Treiber, Helmut; and Nitsch, Wilhelm, 4,649,422, Cl. 358-76.000.

Nitschke, Bernard F.: *See—*
Minks, Werner; and Nitschke, Bernard F., 4,675,987, Cl. 29-602.100.

Nitschke, David B.: *See—*
Nitschke, Dean M.; Nitschke, David B.; Nitschke, John S.; and McMaster, Harold A., 4,661,141, Cl. 65-273.000.

Nitschke, Dean M.; Nitschke, David B.; Nitschke, John S.; and McMaster, Harold A., to Glasstech, Inc. Glass sheet press bending system. 4,661,141, 4-28-87, Cl. 65-273.000.

Nitschke, John S.: *See—*
Nitschke, Dean M.; Nitschke, David B.; Nitschke, John S.; and McMaster, Harold A., 4,661,141, Cl. 65-273.000.

Nitschke, Manfred E.: *See—*
Arnold, Sieghard E.; and Nitschke, Manfred E., 4,665,787, Cl. 83-485.000.

Nitschke, Werner, to Robert Bosch GmbH. Device for controlling and regulating current flowing through an electromagnetic consumer, particularly for use in connection with an internal combustion engine. 4,635,180, 1-6-87, Cl. 363-98.000.

Nitschke, Werner; and Taufer, Peter, to Robert Bosch GmbH. Circuit arrangement for controlling the current through an electric load. 4,658,202, 4-14-87, Cl. 323-275.000.

Nitschmann, Karl: *See—*
Schweitzer, Karl; Nitschmann, Karl; and Dolata, Hans, 4,636,147, Cl. 417-214.000.

Nitsuko Limited: *See—*
Hatabe, Michinori, 4,638,478, Cl. 370-94.000.
Hatabe, Michinori, 4,660,195, Cl. 370-92.000.
Iwama, Teruhiko, 4,682,014, Cl. 235-375.000.
Nishimura, Toshio; and Tokita, Shinichi, 4,656,660, Cl. 379-393.000.
Tanaka, Jouji; Watanabe, Tetunobu; Tanimoto, Yoshiji; and Okumura, Minoru, 4,641,337, Cl. 379-162.000.
Tanaka, Kinzi; Tagawa, Toru; Tanimoto, Yoshiji; and Okumura, Minoru, 4,660,219, Cl. 379-164.000.
Yoshida, Tadahiro, 4,635,248, Cl. 370-48.000.

Nitsushin Soil Consulting Corporation: *See—*
Hiroshima, Toshio; Tamura, Mamoru; and Sakaizumi, Mikio, 4,676,693, Cl. 405-50.000.

Nitt, Karl-Heinz, to Siemens Aktiengesellschaft. Apparatus for compression molding of coil end turns. 4,696,631, 9-29-87, Cl. 425-117.000.

Nitta, Atsuhiko: *See—*
Itoh, Hiroshi; Nitta, Atsuhiko; Tanaka, Tomio; and Kamio, Hideo, 4,649,219, Cl. 564-207.000.
Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, 4,654,177, Cl. 260-512.00R.
Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, 4,659,773, Cl. 524-817.000.
Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamotsu; Ouchi, Takahiro; Abe, Kazuki; and Kobayashi, Sadao, 4,683,259, Cl. 524-434.000.
Itoh, Hiroshi; Nitta, Atsuhiko; and Kamio, Hideo, 4,701,283, Cl. 260-507.00R.

Nitta, Haruyoshi: *See—*
Hodate, Tomoshi; and Nitta, Haruyoshi, 4,662,839, Cl. 431-115.000.

Nitta, Hidetsugu: *See—*
Yonezu, Kunio; Nitta, Hidetsugu; and Tsubota, Masaharu, 4,689,571, Cl. 324-432.000.

Nitta, Issei: *See—*
Fukami, Harukazu; Kikumoto, Ryoji; Nakao, Kenichiro; Nitta, Issei; and Inoue, Shinya, 4,716,161, Cl. 514-222.000.
Ninomiya, Kunihiro; Nitta, Issei; Tobe, Akihiro; Egawa, Mitsuru; and Kikumoto, Ryoji, 4,695,568, Cl. 514-258.000.

Nitta, Jun: *See—*
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.

Nitta, Katsukuni, to Oji Yuka Goseishi Co., Ltd. Delivery slip system and method for producing the same. 4,667,984, 5-26-87, Cl. 283-8.00R.

Nitta, Koichi; Kabuta, Kazuma; Yamaguchi, Masami; Nakagawa, Tadahiro; and Moriyasu, Katsuyuki, to Murata Manufacturing Co., Ltd. Method of forming external electrodes of chip parts and tool for practicing same. 4,664,943, 5-12-87, Cl. 427-58.000.

Nitta, Koichi: *See—*
Nakamura, Masaru; Okajima, Masaki; Komatsubara, Tadashi; Sadamasa, Tetsuo; and Nitta, Koichi, 4,706,101, Cl. 357-17.000.

Nitta, Masahiro: *See—*
Yamaguchi, Kimiaki; Nitta, Masahiro; Inoue, Kazuyuki; Hiro, Teruo; and Toda, Yoshihiro, 4,659,891, Cl. 219-10.55D.

Nitta, Michio; Suzuki, Hiroyuki; and Fukuhara, Yoshifumi, to Tokuda Ltd. Vacuum pump system including serially connected rotary and reciprocating vacuum pumps. 4,662,826, 5-5-87, Cl. 417-206.000.

Nitta, Satoru: *See—*
Iguchi, Katsuhiko; Nitta, Satoru; Wada, Hidemi; and Sato, Takayoshi, 4,704,083, Cl. 425-466.000.

Nitta, Shinichi: *See—*
Doi, Kengo; Nitta, Shinichi; Kusakari, Masaki; and Takahashi, Nobuhiko, 4,665,081, Cl. 514-356.000.

Nitta, Tomio, to Tokai Corporation. High-pressure gas filling valve for use in a pressure resistant container. 4,690,377, 9-1-87, Cl. 251-354.000.

Nitta, Tsuneharu: *See*—
Matsuoka, Tomizo; Fujita, Yosuke; Kuwata, Jun; Abe, Atsushi; and Nitta, Tsuneharu, 4,664,985, Cl. 428-690.000.
Matsuoka, Tomizo; Nishikawa, Masahiro; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, 4,668,582, Cl. 428-690.000.
Tohda, Takao; Matsuoka, Tomizo; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, 4,634,934, Cl. 315-169.300.

Nitta, Tsuneo: *See*—
Maeda, Kenichi; and Nitta, Tsuneo, 4,651,289, Cl. 364-513.500.
Ukita, Teruhiko; and Nitta, Tsuneo, 4,677,672, Cl. 381-43.000.
Ukita, Teruhiko; Nitta, Tsuneo; and Watanabe, Sadakazu, 4,677,673, Cl. 381-43.000.

Nitta, Yoshihiko; Okajima, Atsushi; and Yamano, Fumiyuki, to Hitachi, Ltd. Method for automatic translation between natural languages. 4,641,264, 2-3-87, Cl. 364-900.000.

Nitta, Yoshio: *See*—
Hongo, Yusuo; and Nitta, Yoshio, 4,641,355, Cl. 382-34.000.

Nitta, Yoshiteru, to Kyocera Corporation. Photovoltaic device and a method of producing the same. 4,645,866, 2-24-87, Cl. 136-244.000.

Nittan Company, Limited: *See*—
Ito, Shoji, 4,700,079, Cl. 250-574.000.
Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, 4,636,649, Cl. 250-574.000.
Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, 4,638,304, Cl. 340-500.000.
Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, 4,658,243, Cl. 340-505.000.
Kimura, Tetsuo; and Tanaka, Seiichi, 4,668,939, Cl. 340-521.000.
Kimura, Tetsuo, 4,697,172, Cl. 340-587.000.
Kimura, Tetsuo, 4,701,625, Cl. 250-573.000.
Ouchi, Hiroshi, 4,665,384, Cl. 340-534.000.
Suzuki, Takashi, 4,642,615, Cl. 340-630.000.

Nittetsu Steel Drum Co., Ltd.: *See*—
Tsukamura, Takao, 4,705,184, Cl. 220-67.000.

Nitter, Erich; and Hefel, Jurg W., to Wheli Inter AG. Polysaccharide agglomerate and method of preparation. 4,675,312, 6-23-87, Cl. 514-54.000.

Nitto Boseki Co., Ltd.: *See*—
Harada, Susumu; Shimizu, Kiyoshi; and Ujiie, Masayuki, 4,687,817, Cl. 525-375.000.
Harada, Susumu; and Hasegawa, Sakuro, 4,704,190, Cl. 162-168.200.
Ito, Shimpei; and Sasakura, Tadao, 4,673,598, Cl. 427-412.000.
Kasai, Shin; Waketa, Hideharu; Kato, Keiichi; and Kawaguchi, Yutaka, 4,707,565, Cl. 174-68.500.
Nagasawa, Takeshi; Nakamura, Yoshio; and Kuroiwa, Katsumasa, 4,650,753, Cl. 435-23.000.
Senzawa, Hajime; Ogihara, Keizo; Shimizu, Kiyoshi; and Harada, Susumu, 4,701,497, Cl. 525-292.000.
Shimizu, Kiyoshi; Endo, Tadao; and Harada, Susumu, 4,670,517, Cl. 525-328.200.
Shioura, Kozo; Yamazaki, Syuichi; and Shono, Hiroaki, 4,698,083, Cl. 65-2.000.
Ueda, Toshio; Kageno, Kenji; Shimizu, Kiyoshi; Hasegawa, Sakuro; and Harada, Susumu, 4,644,042, Cl. 526-204.000.
Ueda, Toshio; Kageno, Kenji; and Harada, Susumu, 4,678,474, Cl. 8-543.000.
Ueda, Toshio; Sato, Yoshinori; and Harada, Susumu, 4,680,360, Cl. 526-310.000.

Nitto Chemical Industry Co., Ltd.: *See*—
Kanda, Shoichi; Yanagita, Makoto; and Sekimoto, Yukihiko, 4,661,266, Cl. 252-8.551.
Kanda, Shoichi; Yanagita, Makoto; and Sekimoto, Yukihiko, 4,681,690, Cl. 252-8.551.
Orii, Koichi; Nishida, Masashi; Yagi, Junsuke; and Ohshima, Iwao, 4,683,128, Cl. 423-338.000.
Sasaki, Yutaka; Kiyomiya, Yutaka; and Nakamura, Toshio, 4,709,070, Cl. 558-322.000.
Sasaki, Yutaka; Kiyomiya, Yutaka; and Nakamura, Toshio, 4,709,071, Cl. 558-322.000.
Sekimoto, Yukihiko; Yanagita, Makoto; and Kanda, Shoichi, 4,691,013, Cl. 536-96.000.
Yamaguchi, Yasumasa; and Nishida, Masashi, 4,701,558, Cl. 564-127.000.

Nito Electric Industrial Co., Ltd.: *See*—
Hayashi, Masahiko; and Iwahori, Hiroshi, 4,687,522, Cl. 134-8.000.
Heller, Jorge; Skinner, Wilfred A.; Saito, Kenichiro; and Satoh, Susumu, 4,710,497, Cl. 514-221.000.
Ieyama, Norio; Yoshioka, Noriaki; Tamaru, Shusaku; and Ichinose, Hisashi, 4,707,261, Cl. 210-433.200.
Kihara, Yasuo; Mori, Kenjiro; Kawasaki, Takashi; and Ushiyama, Keiichi, 4,666,977, Cl. 524-805.000.
Kimura, Takao; Inagaki, Nobuo; Yoshihara, Mitsuo; and Kato, Fumihiko, 4,639,080, Cl. 350-96.340.
Konishi, Toshiharu; Shimizu, Yukio; Sakuramoto, Takahumi; Morishita, Tsuyoshi; and Osaki, Shigemi, 4,681,733, Cl. 419-8.000.
Minamizaki, Yoshihiro; Miki, Yoshio; Yamamoto, Takayuki; Iio, Akira; and Sakagami, Toshinori, 4,699,938, Cl. 524-271.000.
Nakazono, Yutaka; and Mori, Kenji, 4,687,863, Cl. 549-302.000.
Nishimiya, Yasuo; Komamura, Chiaki; and Musa, Yoshikazu, 4,690,786, Cl. 264-4.600.
Nishida, Yuji; Kamiyama, Yoshiyasu; and Okuno, Koichi, 4,640,773, Cl. 210-321.100.
Oka, Hiroyuki; Akasaka, Shinichi; Ohara, Shuichi; Hattori, Shintaroo; Mori, Yasuki; Narahara, Toshikazu; and Matsumoto, Hiroshi, 4,690,858, Cl. 428-216.000.
Tajiri, Kazuhiro; Kohmoto, Michio; Saito, Kiyoshi; and Takahira, Hitoshi, 4,639,476, Cl. 523-213.000.
Tsumura, Akio; Yamamoto, Suguru; and Miyaake, Chiharu, 4,684,256, Cl. 356-367.000.
Wada, Shintaro; Takahashi, Hisanori; and Nomura, Yoichi, 4,679,563, Cl. 128-640.000.
Yamamoto, Hiraku; Suzuki, Toshimichi; Katayama, Shigeru; Uratsuka, Isao; and Asoshina, Eishi, 4,695,598, Cl. 523-400.000.
Yoshihara, Mitsuo; Morikawa, Yoshitada; Yamamoto, Yasuo; Komada, Mitsuharu; and Hattori, Masaaki, 4,645,297, Cl. 350-96.230.
Yotsuya, Isao; Suzuki, Kenji; and Asano, Kazumasa, 4,668,576, Cl. 428-353.000.

Nitto, Fumiaki: *See*—
Nakagawa, Mitsuhiko; and Nitto, Fumiaki, 4,665,108, Cl. 523-152.000.
Nakagawa, Mitsuhiko; and Nitto, Fumiaki, 4,672,082, Cl. 523-153.000.
Nakagawa, Mitsuhiko; and Nitto, Fumiaki, 4,678,818, Cl. 523-157.000.

Nitto Incorporated: *See*—
Takahata, Daisuke; and Sakai, Yukiyoshi, 4,641,054, Cl. 310-324.000.

Nitto Kagaku Kogyo Kabushiki Kaisha: *See*—
Yamada, Hideaki; and Tani, Yoshiki, 4,637,982, Cl. 435-129.000.
Yamada, Hideaki; Ryuno, Koitchiro; Enomoto, Kanehiko; and Watanabe, Ichiro, 4,661,456, Cl. 435-244.000.
Yamada, Hideaki; Enomoto, Kanehiko; and Watanabe, Ichiro, 4,661,457, Cl. 435-244.000.

Nitto Kasei Co., Ltd.: *See*—
Sakamoto, Kazuhiko; Nakatsuji, Toshiharu; Mototani, Hideo; Kamoshita, Katsuzo; Nakayama, Isamu; and Kato, Toshiro, 4,654,368, Cl. 514-493.000.

Nitto Kogyo Kabushiki Kaisha: *See*—
Kubota, Shigeru; Kanou, Shoji; and Kubo, Masahiro, 4,670,981, Cl. 29-840.000.

Nitto Kohki Co., Ltd.: *See*—
Mikiya, Toshio; Kaneko, Minoru; and Kazama, Yasuo, 4,681,172, Cl. 173-139.000.
Takeuchi, Hirosato; and Mikiya, Toshio, 4,649,903, Cl. 126-443.000.
Takeuchi, Hirosato; and Mikiya, Toshio, 4,653,471, Cl. 126-433.000.

Nitto Seiko Co., Ltd.: *See*—
Saito, Masayuki, 4,637,770, Cl. 414-744.00B.

Nitz, Frederic: *See*—
McEachern, Alexander; and Nitz, Frederic, 4,694,402, Cl. 364-487.000.

Nitz, Larry T., to General Motors Corporation. Step-out clutch-to-clutch upshift control. 4,706,522, 11-17-87, Cl. 74-866.000.

Nitz, Larry T.: *See*—
Downs, Robert C.; Nitz, Larry T.; and Wanamaker, Joseph L., 4,653,350, Cl. 74-864.000.
Downs, Robert C.; and Nitz, Larry T., 4,653,351, Cl. 74-866.000.
Downs, Robert C.; Nitz, Larry T.; Reichert, Frederick K.; and Wanamaker, Joseph L., 4,671,139, Cl. 74-866.000.
Downs, Robert C.; Nitz, Larry T.; and Wanamaker, Joseph L., 4,707,789, Cl. 364-424.100.

Nitz, Rolf-Eberhard: *See*—
Schonafinger, Karl; Bohn, Helmut; Martorana, Piero; and Nitz, Rolf-Eberhard, 4,681,891, Cl. 514-340.000.
Zoller, Gerhard; Beyerle, Rudi; Just, Melitta; Martorana, Piero; Bohn, Helmut; and Nitz, Rolf-Eberhard, 4,666,902, Cl. 514-212.000.

Nitzberg, Jerold I.; and Nitzberg, Magdalena. Nail-holding accessory for hammers. 4,658,679, 4-21-87, Cl. 81-23.000.

Nitzberg, Leonard R.: *See*—
Richards, Alton; and Nitzberg, Leonard R., 4,674,525, Cl. 137-68.100.

Nitzberg, Magdalena: *See*—
Nitzberg, Jerold I.; and Nitzberg, Magdalena, 4,658,679, Cl. 81-23.000.

Nitzsche, Erhard: *See*—
Grossmann, Stefan; and Nitzsche, Erhard, 4,635,546, Cl. 101-248.000.
Grossmann, Stefan; and Nitzsche, Erhard, 4,638,734, Cl. 101-248.000.

Niu, Joseph H. Y.; and Schmolka, Irving R., to BASF Corporation. Coal-oil slurries containing a surfactant. 4,637,822, 1-20-87, Cl. 44-51.000.

Niven, Ian E.; and Travill, Andrew W., to Lever Brothers Company. Detergent powders and processes for producing them. 4,645,616, 2-24-87, Cl. 252-135.000.

Niven, Robert W., to Hy-Tek Systems, Inc. Arc starter for welder. 4,672,175, 6-9-87, Cl. 219-130.400.

Nivi, Hossein; and Field, Nathaniel L., III, to Ford Motor Company. Reciprocating balance weight mechanism for a piston type internal combustion engine. 4,688,528, 8-25-87, Cl. 123-192.00B.

NIVO S.A.: *See*—
Dinh, Didier, 4,636,104, Cl. 403-191.000.

Niwa, Hirotoshi: *See*—
Koga, Kunio; Sasaki, Yukihiro; and Niwa, Hirotoshi, 4,658,057, Cl. 562-608.000.

Niwa, Hitoshi: *See—*
Hori, Makoto; Nomura, Etsuji; Niwa, Hitoshi; Mukai, Hirokatsu; and Tanaka, Toshiaki, 4,667,644, Cl. 123-549.000.
Hori, Makoto; Nagaya, Toshiatsu; Mukai, Hirokatsu; Niwa, Hitoshi; and Miwa, Naoto, 4,716,279, Cl. 219-541.000.
Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoto; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, 4,685,437, Cl. 123-549.000.

Niwa, Kazuhiro; Tsunekawa, Masaharu; and Nei, Atsushi, to Victor Company of Japan, Ltd. Multi-head transducer assembly for helical scan video tape recorders. 4,652,955, 3-24-87, Cl. 360-121.000.

Niwa, Kenji; and Ichikawa, Ichiro, to Sumitomo Chemical Company, Limited. Method of purifying tantalum. 4,673,554, 6-16-87, Cl. 423-63.000.

Niwa, Kensuke; Fujita, Hisayoshi; Saito, Yoshihiko; Makihara, Hiroshi; Hashimoto, Ritsuo; Hoshi, Younosuke; and Murayama, Katsutoshi, to Mitsubishi Jukogyo Kabushiki Kaisha; and Mitsubishi Gas Chemical Company, Inc. Method of humidifying a gas. 4,705,654, 11-10-87, Cl. 261-128.000.

Niwa, Kiyomi; and Kozawa, Yutaka, to Kabushiki Kaisha Toshiba. Ventilator of the heat exchange type. 4,711,293, 12-8-87, Cl. 165-4.000.

Niwa, Koichi: *See—*
Kurihara, Kazuaki; Kamehara, Nobuo; Yokoyama, Hiromitsu; Ogawa, Hiromi; Yokouchi, Kishio; Imanaka, Yoshihiko; and Niwa, Koichi, 4,642,148, Cl. 156-89.000.
Yokouchi, Kishio; Suzuki, Yuichi; and Niwa, Koichi, 4,704,658, Cl. 361-385.000.

Niwa, Masatake; and Maekawa, Yukio, to Minolta Camera Kabushiki Kaisha. Bayonet mount arrangement. 4,659,203, 4-21-87, Cl. 354-286.000.

Niwa, Masatake: *See—*
Taniguchi, Nobuyuki; Niwa, Masatake; Fujii, Akira; Hoda, Takeo; Nakai, Masaaki; Sekida, Minoru; and Sahara, Misayoshi, 4,712,904, Cl. 354-475.000.

Niwa, Minoru: *See—*
Hongo, Suzuaki; Niwa, Minoru; Hashiba, Takahiro; Harata, Mitsuru; Hirata, Ichiro; Ito, Isamu; and Sonobe, Akihiko, 4,709,944, Cl. 280-777.000.

Niwa, Shigeo; Kondo, Kazuo; and Betsuki, Katsutoshi, to NGK Spark Plug Co., Ltd. Artificial joint. 4,685,919, 8-11-87, Cl. 623-21.000.

Niwa, Shigeo: *See—*
Fukuura, Isamu; and Niwa, Shigeo, 4,636,218, Cl. 623-18.000.

Niwa, Shin-ichiro: *See—*
Ohsawa, Yoshitaka; Shibata, Yutaka; Niwa, Shin-ichiro; Nishimura, Akira; and Uemiya, Takafumi, 4,708,833, Cl. 264-1.500.

Niwa, Tadashi; Kato, Masayuki; Taguchi, Yoshio; and Imai, Chihiro, to Toa Nenryo Kogyo Kabushiki Kaisha. Novel styrene copolymer. 4,704,438, 11-3-87, Cl. 525-333.300.

Niwa, Takao: *See—*
Osanai, Akinori; and Niwa, Takao, 4,642,068, Cl. 474-11.000.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,649,485, Cl. 364-424.100.
Osanai, Akinori; Gono, Takeshi; and Niwa, Takao, 4,649,487, Cl. 364-424.100.
Osanai, Akinori; Gono, Takeshi; and Niwa, Takao, 4,649,488, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,653,004, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,653,005, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,653,006, Cl. 364-424.100.
Osanai, Akinori; and Niwa, Takao, 4,653,007, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,656,587, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,658,360, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,683,779, Cl. 74-861.000.

Niwa, Takashi: *See—*
Hayashi, Mitsuji; Niwa, Takashi; Hayakawa, Akihiko; Bingo, Hideyuki; Kazusaka, Shoji; and Konishi, Keisuke, 4,701,582, Cl. 200-61.420.

Niwa, Tatsuo: *See—*
Uchikawa, Kiyoshi; and Niwa, Tatsuo, 4,652,090, Cl. 350-357.000.

Niwa, Tomomitsu, to Mitsubishi Denki Kabushiki Kaisha. Numerically controlled working process. 4,698,573, 10-6-87, Cl. 318-571.000.

Niwa, Tomomitsu, to Mitsubishi Denki Kabushiki Kaisha. Numerically controlled machining method using primary and compensating cutters. 4,713,747, 12-15-87, Cl. 364-170.000.

Niwa, Toshiaki, to Honda Giken Kogyo Kabushiki Kaisha. Sliding roof for vehicles. 4,685,724, 8-11-87, Cl. 296-216.000.

Niwa, Toshiaki, to Honda Giken Kogyo Kabushiki Kaisha. Sliding roof for automobiles. 4,688,848, 8-25-87, Cl. 296-216.000.

Niwa, Toshiaki, to Honda Giken Kogyo Kabushiki Kaisha. Sliding roof for vehicles. 4,690,452, 9-1-87, Cl. 296-216.000.

Niwa, Toshiaki, to Honda Giken Kogyo Kabushiki Kaisha. Sliding roof for vehicles. 4,690,453, 9-1-87, Cl. 296-216.000.

Niwa, Toshio; Himeno, Kiyoshi; and Yoshihara, Junji, to Research Association of Synthetic Dyestuffs. Thiazoleazophenylaminoethyl carbonyloxy-C_8-C_{10}-alkyl compounds useful as dyes for polyester fibers. 4,642,339, 2-10-87, Cl. 534-650.000.

Niwa, Toshio; and Kato, Yoshiaki, to Mitsubishi Chemical Industries Limited. Cellulose fiber-reactive disazo or trisazo dyes having a triazine ring substituted by A(B-sulfatoethyl) sulfonylanilino group 4,645,832, 2-24-87, Cl. 534-637.000.

Niwa, Toshio; Murata, Yukichi; and Morishima, Takashi, to Mitsubishi Chemical Industries Limited. Sheets for sublimation transfer recording. 4,657,557, 4-14-87, Cl. 8-471.000.

Niwa, Toshio; and Katoh, Yoshiaki, to Mitsubishi Chemical Industries Limited. Disazo reactive dyestuffs for cellulose fibers. 4,686,28 8-11-87, Cl. 534-637.000.

Niwa, Toshio; Himeno, Kiyoshi; and Yoshihara, Junji, to Mitsubi Chemical Industries Limited. Perinone compound. 4,699,9 10-13-87, Cl. 544-245.000.

Niwa, Toshio; Himeno, Kiyoshi; and Hihara, Toshio, to Mitsubi Chemical Industries Limited. Reactive monoazo dyestuffs. 4,707,5 11-17-87, Cl. 534-635.000.

Niwa, Toshio: *See—*
Arisawa, Takashi; Maruyama, Yoichiro; Shiba, Koreyuki; Niw Toshio; Kaneko, Masaharu; and Ono, Hitoshi, 4,646,309, 372-53.000.

Niwa, Yoshiyuki; Kashiwagi, Masahiro; Yasue, Masahiro, Band Shunichi; Kakinuma, Asao; and Wakatsuki, Tadashi, to Kawas Jukogyo Kabushiki Kaisha; and Technical Research and Devel ment Institute, Japan Defense Agency. Bearingless hub structure rotary-wing aircrafts. 4,676,720, 6-30-87, Cl. 416-134.00A.

Niwa, Yukichi: *See—*
Suda, Shigeyuki; Niwa, Yukichi; Ogino, Yasuo; Kawakami, E and Ohwada, Mitsutoshi, 4,667,316, Cl. 369-44.000.

Niwano, Masahiro: *See—*
Takeo, Saegusa; Horikawa, Jiro; Niwano, Masahiro; and Ka zawa, Takenobu, 4,650,608, Cl. 540-451.000.

"Niwe" Ing. Kamhuber & Co. KG: *See—*
Kamhuber, Peter, 4,684,793, Cl. 235-449.000.

Nix, Hans F., to Elektro-Physik Hans Nix & Dr.-Ing. E. Steingroe KG. Rolling magnetic probe for continuous thickness measurem 4,692,700, 9-8-87, Cl. 324-229.000.

Nix, Larry L.; and McDermott, Michael G., to General Motors Co ration. Adaptive knock control with variable knock tuning. 4,664, 5-12-87, Cl. 123-425.000.

Nix, Larry L.: *See—*
McDermott, Michael G.; and Nix, Larry L., 4,651,698, 123-425.000.

Nix, Paul T.: *See—*
Kelleher, Thomas J.; and Nix, Paul T., 4,673,633, Cl. 435-4.00

Nix, Richard A.; Kassin, Charles A.; and Leigh-Monstevens, Keith to Automotive Products plc. Prefilled hydraulic control appar for motor vehicle mechanical clutch. 4,660,694, 4-28-87, Cl. 85.0CA.

Nix, Richard A.: *See—*
Barker, David C.; Wrobleski, David L.; Nix, Richard A.; Leigh-Monstevens, Keith V., 4,665,802, Cl. 92-23.000.
Leigh-Monstevens, Keith V.; Wrobleski, David L.; Nix, Rich A.; and Rei, Mark W., 4,687,084, Cl. 192-85.0CA.
Leigh-Monstevens, Keith V.; Nix, Richard A.; and Patal Claude A., deceased, 4,705,151, Cl. 192-111.00A.

Nixdorf Computer AG: *See—*
Baitz, Guenter; and Dobring, Wilfried, 4,637,326, Cl. 109-49.0
Baitz, Guenter; and Dobring, Wilfried, 4,638,908, Cl. 206-0.8
Baitz, Guenter; and Dobring, Wilfried, 4,642,449, Cl. 235-22.0
Bogdanski, Michael, 4,703,379, Cl. 360-118.000.
Brockmann, Werner, 4,689,654, Cl. 357-45.000.
Dobring, Wilfried; Rubey, Wolfgang; and Mafke, Wolfg 4,651,609, Cl. 83-620.000.
Hardt, Walter; Werner, Franz; and Bonke, Norbert, 4,657,31 312-7.200.
Holland-Letz, Guenter, 4,684,794, Cl. 235-449.000.
Holland-Letz, Guenter, 4,689,704, Cl. 360-104.000.
Holland-Letz, Guenter; Jaeger, Waldemar; Tewes, Udo; and gel, Peter, 4,703,162, Cl. 235-379.000.
Ihlenburg, Rainer; Baitz, Guenter; and Nixdorf, Heinz, 4,698 Cl. 360-104.000.
Laue, Hans-Bodo, 4,678,939, Cl. 307-445.000.
Laue, Hans-Bodo, 4,689,605, Cl. 340-333.000.
Laue, Hans-Bodo, 4,697,275, Cl. 375-4.000.
Nowak, Gerhard, 4,656,631, Cl. 371-19.000.

Nixdorf, Heinz: *See—*
Ihlenburg, Rainer; Baitz, Guenter; and Nixdorf, Heinz, 4,698 Cl. 360-104.000.

Nixdorf, Klaus: *See—*
Block, Ulrich; Muff, Wolf; Nixdorf, Klaus; and Wagner, Jos 4,675,420, Cl. 549-248.000.

Nixon, Brian J.: *See—*
Harrison, Joel N.; Condito, Vincent A.; Graham, Randolp Nixon, Brian J.; and Simonsen, Richard C., 4,639,798 360-73.000.

Nixon, Ralph D., to English Electric Valve Company Limited. D systems. 4,644,407, 2-17-87, Cl. 358-242.000.

Nixon, Ralph D., to English Electric Valve Company Limited. D arrangements. 4,695,764, 9-22-87, Cl. 313-497.000.

Nixon, Ralph D., to English Electric Valve Company Limited. D arrangements. 4,695,765, 9-22-87, Cl. 313-497.000.

Nixon, William C.; and Bryan, Charles E., to Prutec Limited. M of manufacturing a light valve. 4,664,478, 5-12-87, Cl. 350-336.

Nixon, William C.: *See—*
Garth, Simon C. J.; and Nixon, William C., 4,658,13 250-310.000.

Nizet, Pierre: *See—*
Beauregard, Robert, 4,715,067, Cl. 2-22.000.

Niznick, Gerald A. Bendable adapter for dental implant. 4,645,453, 2-24-87, Cl. 433-173.000.
Niznik, Thomas: *See*—
Kreft, Hans-Diedrich; Jenning, Michael; Mackenthun, Holger; Baik, Thorten; and Niznik, Thomas, 4,698,996, Cl. 73-1.00J.
NL Chemicals, Inc.: *See*—
Finlayson, Claude M.; Cody, Charles A.; Kemnetz, Steven J.; Reichert, William W.; Magauran, Edward D.; and Johnson, Johnny R., 4,695,402, Cl. 252-315.200.
Reichert, William W.; Cody, Charles A.; Desesa, Michael A.; and Faulseit, Bruce K., 4,710,404, Cl. 427-386.000.
Williams, Roy C., 4,659,778, Cl. 525-107.000.
NL Industries, Inc.: *See*—
Barr, John D.; and Fuller, John M., 4,640,375, Cl. 175-410.000.
Barr, John D.; Matthias, Terry R.; and Taylor, Malcolm R., 4,669,556, Cl. 175-329.000.
Barr, John D.; and Fuller, John M., 4,676,324, Cl. 175-393.000.
Barr, John D.; and Lamb, Haydn R., 4,711,144, Cl. 76-108.00A.
Bhatia, Kishan; and Garcia, John G., Jr., 4,690,805, Cl. 423-224.000.
Bradley, William B.; and Holbrook, Philip, 4,710,906, Cl. 367-35.000.
Coope, Daniel F., 4,705,944, Cl. 250-254.000.
Davison, Francis L., 4,686,658, Cl. 367-85.000.
Fontenot, John E., 4,697,650, Cl. 175-50.000.
Ho, Hwa-shan, 4,662,458, Cl. 175-27.000.
House, Roy F.; and Hoover, Lonnie D., 4,686,051, Cl. 252-8.551.
Kisling, James W., III, 4,681,168, Cl. 166-381.000.
Laba, Dennis, 4,659,571, Cl. 424-65.000.
Loukanis, Jesse J.; Mathews, Will W.; and Tune, Raymond L., 4,711,143, Cl. 76-108.00A.
Logas, Edward A., 4,636,999, Cl. 367-156.000.
Magauran, Edward D.; Cody, Charles A.; Reichert, William W.; Kieke, Mauriello D.; Kemnetz, Steven J.; and Chiavoni, Araxi, 4,664,820, Cl. 252-28.000.
Malguarnera, Salvatore C., 4,641,535, Cl. 73-861.010.
Nayler, Douglas W. J.; Foreman, Fred R.; and Childs, Willard D., 4,688,764, Cl. 254-277.000.
Paski, William C., 4,698,501, Cl. 250-265.000.
Rodney, Paul F.; and Birchak, James R., 4,665,511, Cl. 367-35.000.
Russell, Michael K.; and Russell, Anthony W., 4,675,852, Cl. 367-84.000.
Russell, Michael K.; Wesenberg, Donald L.; and Leaney, Peter A., 4,694,555, Cl. 29-451.000.
Russell, Michael K.; and Arlott, Colin, 4,714,403, Cl. 415-107.000.
Short, Lot W., Jr.; and Barr, John D., 4,660,659, Cl. 175-329.000.
Slingerland, Robert E., 4,650,593, Cl. 252-8.500.
Slingerland, Robert E., 4,652,606, Cl. 525-54.200.
Stroud, Stanley G., 4,708,204, Cl. 166-255.000.
Watson, Kenneth E.; and Sharp, Keith W., 4,670,164, Cl. 252-8.511.
NL Petroleum Products Limited: *See*—
Barr, John D.; and Wardley, Michael T., 4,679,639, Cl. 175-329.000.
Barr, John D., 4,694,919, Cl. 175-393.000.
Barr, John D.; and Taylor, Malcolm R., 4,697,654, Cl. 175-329.000.
Griffin, Nigel D., 4,669,522, Cl. 164-97.000.
Shirley, David, 4,700,790, Cl. 175-410.000.
Wardley, Michael T., 4,699,227, Cl. 175-329.000.
Wardley, Michael T.; and Shirley-Fisher, David N., 4,705,122, Cl. 175-329.000.
NL Sperry-Sun, Inc.: *See*—
Russell, Michael K.; and Russell, Anthony W., 4,636,995, Cl. 367-85.000.
NMB Associates, Ltd. 1983-I: *See*—
Finegar, Harold J.; and Taylor, Jefferson H., 4,651,099, Cl. 324-320.000.
NMR Imaging, Inc.: *See*—
Mee, Gary L.; and Willcott, M. Robert, 4,710,715, Cl. 324-307.000.
No-Mor Corporation, Inc.: *See*—
Musallem, Charles S., III, 4,668,559, Cl. 428-167.000.
Noack, Timothy J.: *See*—
Gano, John C.; Schwendemann, Kenneth L.; Noack, Timothy J.; and Godfrey, Craig W., 4,702,320, Cl. 166-343.000.
Noah, George I.: *See*—
Reeve, Richard J.; and Noah, George I., 4,700,851, Cl. 212-181.000.
Noailly, Nicole: *See*—
Guillaume, Michel E.; and Noailly, Nicole, 4,636,639, Cl. 250-560.000.
Noakes, Larry R. Fence attachment. 4,708,323, 11-24-87, Cl. 256-35.000.
Noakes, Timothy J.: *See*—
Coffee, Ronald A.; Noakes, Timothy J.; and Anstey, Robert A., 4,634,057, Cl. 239-690.000.
Noami, Tsuneo: *See*—
Horie, Kiyoshi; Noami, Tsuneo; Masuda, Koji; Saitoh, Koichi; Maruyama, Kazuo; Fujimura, Yoshihiko; Sucmitsu, Yuji; and Yamamoto, Toshiro, 4,653,896, Cl. 355-3.0DD.
Noe Kanai: *See*—
Tagawa, Keisuke, 4,715,271, Cl. 99-306.000.
Noe, Masahiko, to Toyota Jidosha Kabushiki Kaisha. Apparatus for controlling rotational speed of radiator fan. 4,651,922, 3-24-87, Cl. 236-25.000.
Noe Ky: *See*—
Erynanen, Seppo I., 4,702,846, Cl. 210-788.000.
Nobatake, Atsuo: *See*—
Okuyasu, Shinpei; Uchikoshi, Shinichi; and Nobatake, Atsuo, 4,681,591, Cl. 8-115.680.
Nobe, Yasuo: *See*—
Motosugi, Kenzo; Kifune, Koji; Yamaguchi, Yasuhiko; Nobe, Yasuo; and Tanae, Hiroyuki, 4,699,135, Cl. 128-156.000.
Nobel, Fred I.; and Schram, David N., to LeaRonal, Inc. Bath and process for plating tin/lead alloys on composite substrates. 4,640,746, 2-3-87, Cl. 204-15.000.
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Nobel, Fred I.; and Ostrow, Barnet D., to LeaRonal, Inc. Bath and process for electroplating tin, lead and tin/alloys. 4,701,244, 10-20-87, Cl. 204-44.400.
Nobel Kemi AB: *See*—
Back, Sigurd; Nyqvist, Jan-Olof; and Ericsson, Per, 4,699,741, Cl. 264-3.400.
Back, Sigurd; and Nyqvist, Jan-Olof, 4,714,572, Cl. 264-3.400.
Schmid, Hermann; Sjoberg, Per; and Svensson, Leif, 4,706,567, Cl. 102-318.000.
Nobel, Reinhard: *See*—
Forster, Ludwig; Franke, Alois; and Nobel, Reinhard, 4,687,566, Cl. 204-279.000.
Nobell Inc.: *See*—
Pasinski, Ralph R.; Ayers, Sammy L., Jr.; and Kocmond, Warren C., Jr., 4,707,855, Cl. 379-376.000.
Nobelpharma Aktiebolag: *See*—
Hansson, Stig; and Jorgensson, Einar, 4,671,410, Cl. 206-438.000.
Noble, Alfred H. Space frame apparatus and a space frame employing such apparatus. 4,679,372, 7-14-87, Cl. 52-648.000.
Noble Boyd Enterpises: *See*—
Noble, Thomas D., 4,693,200, Cl. 114-47.000.
Noble, Brian: *See*—
Peel, Christopher J.; Evans, Brian; Harris, Samuel J.; Noble, Brian; and Dinsdale, Keith, 4,636,357, Cl. 420-532.000.
Noble & Cooley Co.: *See*—
Jones, Jonathan R.; and Gatzen, Robert A., 4,660,455, Cl. 84-413.000.
Noble, Edward C. Doll construction. 4,715,842, 12-29-87, Cl. 446-268.000.
Noble, Karl-Ludwig: *See*—
Weber, Karl-Arnold; Buysch, Hans-Josef; Noble, Karl-Ludwig; and Traubel, Harro, 4,687,830, Cl. 528-64.000.
Noble, Lowell A. Optical apparatus for producing a natural, viewable and optically interactive image in free space. 4,671,625, 6-9-87, Cl. 350-452.000.
Noble, Philip C.; Tullos, Hugh S.; and Davidson, John P. Method and apparatus for preventing rotational failure of orthopedic endoprostheses. 4,678,471, 7-7-87, Cl. 623-16.000.
Noble, Richard G.; Cole, Garland L.; and Usher, Irwin H. Electronic linkage interface control security system and method. 4,672,533, 6-9-87, Cl. 364-200.000.
Noble, Roger K.: *See*—
Schwartz, Robert E.; Noble, Roger K.; and Keller, Michael R., 4,637,793, Cl. 431-202.000.
Schwartz, Robert E.; and Noble, Roger K., 4,645,449, Cl. 431-8.000.
Schwartz, Robert E.; and Noble, Roger K., 4,664,617, Cl. 431-8.000.
Noble, Scott W.: *See*—
Burke, Timothy M.; Noble, Scott W.; Freeburg, Thomas A.; and Krebs, Jay R., 4,636,791, Cl. 340-825.520.
Noble, Thomas D., to Noble Boyd Enterpises. Apparatus for enclosing a boat hull. 4,693,200, 9-15-87, Cl. 114-47.000.
Noble, Wendell P., Jr.; Scheuerlein, Roy E.; and Walker, William W., to International Business Machines Corporation. Method of making self-aligned recessed oxide isolation regions. 4,675,982, 6-30-87, Cl. 29-576.00B.
Nobles, William O., to Martin Marietta Corporation. Interconnectable space station module and space station formed therewith. 4,715,566, 12-29-87, Cl. 244-159.000.
Noborio, Takehisa: *See*—
Koga, Hitoshi; Noborio, Takehisa; and Nishimoto, Masushi, 4,650,951, Cl. 219-118.000.
Nobuhara, Masahiro; Kanamori, Toshinori; Yamaguchi, Kiyoshi; and Mochida, Ei, to Mochida Pharmaceutical Co., Ltd. Process for producing interferon. 4,680,261, 7-14-87, Cl. 435-68.000.
Nobuhara, Uichi, to Kabushiki Kaisha Kumalift Gijutsu Kenkyusho. Stopper device for positioning a push car and the like. 4,662,810, 5-5-87, Cl. 414-396.000.
Nobuhara, Uichi, to Kabushiki Kaisha Kumalift Gijutsu Kenkyusho. Automatic transfer apparatus for elevators. 4,690,611, 9-1-87, Cl. 414-661.000.
Nobukawa, Akira; Oota, Kojiro; and Sawaguchi, Tatuei, to Kabushiki Kaisha Kitagawa Tekkosho. Rotary fluid pressure cylinder device for operating chucks for machine tools. 4,669,362, 6-2-87, Cl. 91-467.000.
Nobukawa, Akira; Sawaguchi, Tatsue; and Kuroki, Yoshihiro, to Kitagawa Iron Works Co., Ltd. Chucking device for machine tools. 4,696,513, 9-29-87, Cl. 279-121.000.
Nobumoto, Kazutoshi; and Sumida, Shizuo, to Mazda Motor Corporation. Speed ratio control of a steplessly variable vehicle transmission. 4,671,138, 6-9-87, Cl. 74-862.000.
Nobumoto, Kazutoshi: *See*—
Sotoyama, Kaoru; and Nobumoto, Kazutoshi, 4,662,247, Cl. 74-866.000.
Nobuo, Kawahigashi; Shigesou, Hashida; and Yasunobu, Kojima, to Nippon Valqua Kogyo Kabushiki Kaisha. Process for the production of polytetrafluoroethylene porous membranes. 4,710,331, 12-1-87, Cl. 264-41.000.

Nobuta, Hiroshi, to Canon Kabushiki Kaisha. Image processing apparatus. 4,706,127, 11-10-87, Cl. 358-280.000.

Nobuta, Yasuo, to Kabushiki Kaisha Toshiba. Compensating integrator without feedback. 4,651,032, 3-17-87, Cl. 307-491.000.

Nobutoki, Kazuhiro; Ono, Kenji; Okahashi, Keiji; and Matsumura, Sueyoshi, to Matsushita Electric Works, Ltd. Electromagnetic relay. 4,688,010, 8-18-87, Cl. 335-128.000.

Nobutoki, Kazuhiro; and Ono, Kenji, to Matsushita Electric Works, Ltd. Polarized electromagnetic relay. 4,695,813, 9-22-87, Cl. 335-78.000.

Nobutoki, Kazuhiro: *See*—
Ono, Kenji; and Nobutoki, Kazuhiro, 4,703,293, Cl. 335-80.000.

Nobutsugu, Hideo, to Kabushiki Kaisha Ishida Koki Seisakusho. Control system for combinatorial weighing or counting apparatus. 4,658,919, 4-21-87, Cl. 177-1.000.

Nobutugu, Hideo: *See*—
Naito, Kazufumi; Haze, Setsuo; Nobutugu, Hideo; Nakagawa, Yukio; Yamada, Seiji; and Murata, Shuji, 4,694,920, Cl. 177-25.000.

Nocci, Roberto: *See*—
Del Giudice, Luciano; Nocci, Roberto; Giannini, Umberto; and Gianotti, Giuseppe, 4,713,416, Cl. 525-68.000.

Nocek, Robert S.: *See*—
Lems, Peter; Ausnit, Steven; and Nocek, Robert S., 4,665,552, Cl. 383-37.000.

Nocera, Patrick C. Adjustable workpiece securing device. 4,702,512, 10-27-87, Cl. 269-77.000.

Nock, Anthony: *See*—
Brophy, John H.; and Nock, Anthony, 4,705,906, Cl. 585-262.000.

Noda, Akihiko: *See*—
Shoji, Yoshio; Terao, Kazuo; Noda, Akihiko; Yamamuro, Takashi; and Sunaga, Takayuki, 4,662,311, Cl. 118-651.000.

Noda, Akiko: *See*—
Yajima, Mantaro; Noda, Akiko; Okamura, Kiyohito; Hasegawa, Yoshio; and Yamamura, Takemi, 4,663,229, Cl. 428-364.000.

Noda, Akio: *See*—
Yanazawa, Tadaaki; Tanaka, Teruaki; Noda, Akio; Takeda, Ryo; and Inoue, Masataka, 4,685,320, Cl. 72-250.000.

Noda, Atsushi; and Hanakata, Takayoshi, to Canon Kabushiki Kaisha. Thermal printer. 4,647,233, 3-3-87, Cl. 400-120.000.

Noda, Fumio: *See*—
Shirai, Shoji; Noda, Fumio; Iidaka, Yoshiaki; Yamauchi, Masaaki; and Fukushima, Masakazu, 4,672,261, Cl. 313-414.000.

Noda Institute for Scientific Research: *See*—
Horiuchi, Tatsuo, 4,634,663, Cl. 435-25.000.

Noda, Kazushi; Komatsu, Moriyuki; and Mitsunaga, Hiroshi, to Toyoda Gosei Co., Ltd.; and Matsushita Electric Industrial Co., Ltd. Heated or cooled steering wheel. 4,640,340, 2-3-87, Cl. 165-41.000.

Noda, Kimihiko; Fujiura, Yoji; and Hasegawa, Yoichi, to Sanyo Chemical Industries, Ltd. Auxiliary for dewatering of sludge. 4,710,298, 12-1-87, Cl. 210-505.000.

Noda, Kimio; Ozeki, Kiyoshi; Furukawa, Hiroaki; and Watai, Katsunori, to Doryokuro Kakunenryo Kaihatsu Jigyodan; and Ohyo Koken Kogyo Co., Ltd. Local radiation exposure alarm apparatus. 4,695,730, 9-22-87, Cl. 250-370.000.

Noda, Kinzaburo: *See*—
Sakamoto, Teruo; Kawai, Sadao; Noda, Kinzaburo; Takeda, Toyohiko; and Kato, Hiroshi, 4,713,247, Cl. 424-461.000.

Noda, Koshi, to Murata Kikai Kabushiki Kaisha. Pneumatic spinning apparatus. 4,642,978, 2-17-87, Cl. 57-328.000.

Noda, Koshi: *See*—
Sakai, Shoji; Noda, Koshi; Nakata, Kazuhiro; and Takashima, Shingo, 4,662,859, Cl. 464-88.000.
Sakai, Shoji; and Noda, Koshi, 4,691,415 Cl. 19-262.000.

Noda, Kyoji: *See*—
Sugita, Ryuji; Honda, Kazuyoshi; Nishida, Hiroshi; and Noda, Kyoji, 4,687,712, Cl. 428-611.000.

Noda, Masaru; and Shiga, Toshihiro, to Hitachi, Ltd. Color video camera signal processing circuit. 4,638,352, 1-20-87, Cl. 358-44.000.

Noda, Masaru; and Kato, Minoru, to Hitachi, Ltd. Video signal processing circuitry. 4,677,486, 6-30-87, Cl. 358-166.000.

Noda, Masaru: *See*—
Nishimura, Ryuji; Kato, Minoru; Noda, Masaru; and Imaide, Takuya, 4,714,955, Cl. 358-48.000.

Noda, Minoru: *See*—
Nagai, Masahide; Noda, Minoru; and Suzuki, Hitoshi, 4,701,100, Cl. 414-751.000.

Noda, Mitsunari: *See*—
Hayashi, Hisao; Morita, Yasushi; and Noda, Mitsunari, 4,651,674, Cl. 118-728.000.

Noda, Naoki; Nihashi, Iwao; and Sato, Kazuhiro, to Toyota Jidosha Kabushiki Kaisha. Fixture for welding long workpieces. 4,710,608, 12-1-87, Cl. 219-161.000.

Noda, Nobutaka: *See*—
Takizawa, Tatsuji; Noda, Nobutaka; and Takigawa, Hideaki, 4,682,878, Cl. 355-3.0FU.

Noda, Satoko; and Susumu, Matsui, to Takara Shuzo Co., Ltd. Process for producing peroxidase. 4,698,306, 10-6-87, Cl. 435-192.000.

Noda, Seiichi; and Yoshimoto, Makoto, to NEC Corporation. Multilevel modulator comprising a compact error correcting code producing unit. 4,716,385, 12-29-87, Cl. 332-9.00R.

Noda, Shigeru: *See*—
Hayashi, Kyozo; and Noda, Shigeru, 4,714,318, Cl. 350-96.210.

Noda, Shoji: *See*—
Kamigaito, Osami; Doi, Haruo; Noda, Shoji; and Yamamoto, Nobuyuki, 4,645,115, Cl. 228-121.000.

Kamigaito, Osami; Noda, Shoji; and Doi, Haruo, 4,673,587, Cl. 427-38.000.

Kamigaito, Osami; Doi, Haruo; Noda, Shoji; Hioki, Tatsumi; Ishii, Akio; and Kakeno, Mitsutaka, 4,678,678, Cl. 427-38.000.

Kamigaito, Osami; Doi, Haruo; and Noda, Shoji, 4,697,325, Cl. 29-447.000.

Noda, Takaaki; and Terai, Hiroshi, to Sumitomo Heavy Industries, Ltd. Method for controlling electrostatic precipitator. 4,648,887, 3-10-87, Cl. 55-2.000.

Noda, Tatsuhiko: *See*—
Kumai, Ko; Noda, Tatsuhiko; Ichiyama, Tadashi; and Satoh, Takashi, 4,647,305, Cl. 75-0.50B.

Noda, Toshiharu: *See*—
Morita, Kaoru; Katsuragi, Shigeo; and Noda, Toshiharu, 4,656,25[illegible] Cl. 530-324.000.

Noda, Touru: *See*—
Uno, Akira; Ninohira, Akira; and Noda, Touru, 4,650,747, Cl. 430-536.000.

Noda, Tsutomu; Shinkawa, Keiro; and Amada, Nobutaka, to Hitachi, Ltd. Phase locked loop circuit for demodulating suppressed carrier signals. 4,642,573, 2-10-87, Cl. 329-50.000.

Noda, Wayne A., to Shiley, Inc. Unitary heat exchanger and debubbler for a liquid. 4,653,577, 3-31-87, Cl. 165-71.000.

Noda, Yasuhiko, to Alps Electric Co., Ltd. Switch with pivoting clip-type contacts. 4,695,692, 9-22-87, Cl. 200-335.000.

Noda, Yasushi; and Shiroyama, Kazuhiko, to Teac Corporation. Disk loading and clamping mechanism for a data transfer apparatus. 4,675,762, 6-23-87, Cl. 360-97.000.

Noda, Yasushi; Kitahara, Toshihiro; and Tsuyuguchi, Hiroshi, to Teac Corporation. Information processing apparatus having locking means permitting ready detachment of the magnetic disk drive assembly. 4,688,131, 8-18-87, Cl. 360-137.000.

Noda, Yasushi; and Kitahara, Toshihiro, to Teac Corporation. Magnetic disk drive capable of mechanical connection to a data processing instrument without deformation. 4,692,828, 9-8-87, Cl. 360-97.00[illegible]

Noda, Yasushi: *See*—
Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Kaoru, 4,640,999, Cl. 200-144.00B.
Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Kaoru, 4,659,885, Cl. 200-144.00B.
Kashiwagi, Yoshiyuki; Noda, Yasushi; and Kitakizaki, Kaoru, 4,686,338, Cl. 200-264.000.
Sakai, Yoshiaki; Tsuyuguchi, Hiroshi; Noda, Yasushi; and Sakaguchi, Takahiro, 4,675,763, Cl. 360-97.000.

Noda, Yoichiro: *See*—
Kitagawa, Tadao; Kosuge, Yutaka; and Noda, Yoichiro, 4,639,71[illegible] Cl. 340-63.000.

Nodd, Dennis G.; and Walker, Richard J., to United States of America Energy. Slurry burner for mixture of carbonaceous material and water. 4,644,878, 2-24-87, Cl. 110-264.000.

Nodera, Hisatoshi: *See*—
Kamiya, Fumio; Nodera, Hisatoshi; Ueda, Kenji; Imazu, Kensuke; and Tomioka, Hidehiro, 4,644,298, Cl. 331-65.000.

Nodes, Rudolf; and Hoffmann, Jurgen, to Sartorius GmbH. Flat filter element for the filtration of fluids. 4,678,578, 7-7-87, Cl. 210-445.00[illegible]

Noding, Stephen A., to Dow Chemical Company, The. Flow-through electrolytic cell. 4,652,355, 3-24-87, Cl. 204-252.000.

Noding, Stephen A., to Dow Chemical Company, The. Process for preparing tetraalkyl 1,1,2,2-ethene-tetracarboxylate. 4,659,44[illegible] 4-21-87, Cl. 204-59.00R.

Noding, Stephen A., to Dow Chemical Company, The. Uniformly crosslinked polyesters. 4,661,565, 4-28-87, Cl. 525-437.000.

Noding, Stephen A., to Dow Chemical Company, The. Novel tetraphosphonic acid compounds, intermediates and a process for their production. 4,689,123, 8-25-87, Cl. 204-59.00R.

Noding, Stephen A., to Dow Chemical Company, The. Flow-through electrolytic cell. 4,689,124, 8-25-87, Cl. 204-78.000.

Noding, Stephen A., to Dow Chemical Company, The. Flow-through electrolytic cell. 4,705,564, 11-10-87, Cl. 75-120.000.

Noding, Stephen A.: *See*—
Siegel, Sanford A.; and Noding, Stephen A., 4,714,665, Cl. 429-192.000.

Nodskov, Preben; and Thelander, Finn. Collapsible exhibit panel. 4,663,899, 5-12-87, Cl. 52-109.000.

Noe, Joel M. Cutting instrument for nasal surgery which cuts parallel to its length. 4,712,546, 12-15-87, Cl. 128-305.000.

Noe, Laszlo : *See*—
Hudacsek, Istvan; Orcsik, Geza; Hazfalvy, Zoltan; Kotsis, Laszlo Nemeth, Endre; Noe, Laszlo ; and Ovari, Ferenc, 4,703,645, Cl. 73-11.000.

Noe, Renato R.; and Yarden, Abraham L., to Southwestern Engineering Company. Manifold. 4,702,308, 10-27-87, Cl. 165-76.000.

Noe, Ronald O., to Westinghouse Electric Corp. Process for producing uranium dioxide. 4,666,684, 5-19-87, Cl. 423-19.000.

Noe, Stephen A., to M. W. Kellogg Company, The. Ammonia synthesis converter. 4,696,799, 9-29-87, Cl. 422-148.000.

Noe, William J.: *See*—
Cotton, Curran D.; Ellingson, David L.; Erickson, Donald E.; Noe, William J.; and Wilson, James D., 4,663,538, Cl. 307-38.000.

Noehren, William L.: *See*—
Byrnes, Francis E.; Ferris, Donald L.; Hibyan, Edward S.; Noehren, William L.; and Ogle, Peter C., 4,714,450, Cl. 464-90.000

Noel Bibby Limited: *See*—
Bibby, Noel; and Owens, John, 4,663,969, Cl. 73-159.000.

See—
Jean-Paul; Camp, Jean-Jacques; and Noel, Didier, 067, Cl. 252-626.000.
et & Cie. S.A.: *See—*
r, Ralph; and Despineux, Hans, 4,661,391, Cl. 428-159.000.
Method and apparatus for molded ice sculpture, 4,669,271, 62-60.000.
nond; Robinson, William M.; Cherian, Gabe; Clifford, i.; Carlomagno, William D.; Deasy, William M.; Grassauer, Haygood, David K.; Sherlock, H. Paul; and White, Harry chem Corp. Solder delivery systems. 4,712,721, 12-15-87, 300.
nt R.; and Van Shoubrouek, Fred B., to McDonnell Doug- ration. Separation system. 4,685,376, 8-11-87, Cl. 89-1.140.
ain L.: *See—*
rg, Jack G.; and Noell, Godwin L., 4,711,619, Cl. 7.000.
nfred: *See—*
Rolf; Frase, Dietmar; and Noeske, Manfred, 4,704,895, Cl. 4.000.
Kent E., to Keith, Lee E.; and Morris, Stephen D., part o each. Exerciser with strain gauges. 4,647,038, 3-3-87, Cl. 00.
Kent E., to Keith, Lee E.; and Morris, Stephen D., part o each. Impingement exerciser with force monitoring and system. 4,647,039, 3-3-87, Cl. 272-125.000.
ude; and Tinti, Jean-Marie, to Universite Claude Bernard - Sweetening agents. 4,645,678, 2-24-87, Cl. 426-548.000.
ude; and Tinti, Jean M., to Universite Claude Bernard/Lyon sweetening agents, process for sweetening various products mpositions containing such sweetening agents. 4,673,582, Cl. 426-548.000.
umio: *See—*
Toshiharu; Yasuda, Kazuo; Nogami, Fumio; and Tsuchiha- Masaru, 4,647,605, Cl. 523-444.000.
unzo: *See—*
Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; o, Norio; and Shirai, Takashi, 4,656,264, Cl. 540-353.000.
Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; o, Norio; and Shirai, Takashi, 4,665,166, Cl. 540-215.000.
Mari: *See—*
maru, Sennosuke; Kubo, Michinori; and Nogami, Mari, 02,923, Cl. 426-61.000.
Takahiro: *See—*
mura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shi- Akira; Nomura, Yoshihisa; and Ohashi, Kaoru, 4,637,487, Cl. 3-197.000.
mura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shi- Akira; Ohashi, Kaoru; and Nomura, Yoshihisa, 4,681,374, Cl. 3-106.000.
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shi, Kaoru; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, kira; Nakamura, Kazumasa; and Nomura, Yoshihisa, 4,685,547, 192-3.00R.
Taro, to Hitachi, Ltd. Multiwavelength spectrophotometer. 712, 12-29-87, Cl. 356-328.000.
Taro: *See—*
ara, Mitsuyoshi; Nogami, Taro; Owada, Minoru; and Koshi, iroyuki, 4,647,202, Cl. 356-318.000.
Tatsuya: *See—*
akura, Makoto; Kondo, Susumu; and Nogami, Tatsuya, 666,742, Cl. 427-229.000.
Toshiaki: *See—*
da, Yoshihiko; Nogami, Toshiaki; Kashiwagi, Shigeru; Sakurai, enji; and Nishiyama, Kunio, 4,702,517, Cl. 296-214.000.
h, Daniel. Immersion electroplating system. 4,634,503, 1-6-87, 4-27.000.
, Masato, to Oppama Kogyo Kabushiki Kaisha. Lawn mower. 658, 1-6-87, Cl. 56-255.000.
Kenneth G.; and Reiterman, Lee, to GTE Valeron Corpora- Quick change tool block clamp. 4,662,254, 5-5-87, Cl. 82-36.00B.
Kenneth G., to GTE Valeron Corporation. Rotating cutting older for bit generation. 4,708,546, 11-24-87, Cl. 409-200.000.
iroshi: *See—*
euchi, Kunihiko; and Nogi, Hiroshi, 4,706,703, Cl. 137-487.500.
lasako: *See—*
da, Tatsuya; and Nogi, Masako, 4,692,597, Cl. 219-492.000.
lunehiro; Ohashi, Ryutaro; Miyazaki, Koichiro; Tanaka, Taka- amakoshi, Koichiro; Tamano, Yoshiziro; Wakita, Syotaro; and a, Toshimitsu, to Daikin Industries Ltd. Automatic dishwasher. 671, 2-10-87, Cl. 134-57.00D.
atsuo; Iwami, Tomonori; and Tanaka, Kazumi, to Toray Indus- Inc. Polymethyl methacrylate hollow fiber type ultrafiltration rane and process for preparation of the same. 4,678,581, 7-7-87, 0-500.230.
Teiji; and Gondo, Toyomi, to Kabushiki Kaisha Meidensha. r supply installation for dc electric railroad. 4,680,663, 7-14-87, 1-2.000.
Toshiharu: *See—*
nauchi, Teruo; Nogi, Toshiharu; and Oyama, Yoshishige, 643,151, Cl. 123-432.000.
Nogimori, Katsumi: *See—*
Ohishi, Yoshitaka; Nagahara, Michiko; Kajikawa, Norio; Yajima, Motoyuki; Nogimori, Katsumi; and Kurokawa, Shigeki, 4,666,931, Cl. 514-389.000.
Nogimura, Tsunehisa: *See—*
Minamitaka, Junichi; and Nogimura, Tsunehisa, 4,699,037, Cl. 84-1.100.
Nogita, Shunsuke: *See—*
Baba, Kenji; Watanabe, Shoji; Nogita, Shunsuke; Yoda, Mikio; Tanaka, Akihiro; and Mori, Shunji, 4,654,139, Cl. 210-85.000.
Noguchi, Aiko: *See—*
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Noguchi, Junichi: *See—*
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Noguchi, Katsumasa. Pelvis locking belt. 4,715,364, 12-29-87, Cl. 128-96.100.
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Noguchi, Koji: *See*—
Kawanishi, Tsuneaki; Mori, Yasuki; Noguchi, Koji; and Iimura, Tsutomu, 4,640,880, Cl. 430-106.600.

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Noguchi, Kouki: *See*—
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Noguchi, Kunio; Totsune, Atsushi; Kajita, Koji; and Hosaka, Takefumi, to Honda Giken Kogyo Kabushiki Kaisha. Air-fuel ratio control system for an internal combustion engine. 4,681,078, 7-21-87, Cl. 123-490.000.

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Noguchi, Masaru, to Fuji Photo Film Co., Ltd. Light beam scanning system. 4,681,394, 7-21-87, Cl. 350-6.600.

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Masuho, Yasuhiko; Hara, Takeshi; and Noguchi, Teruhisa, 4,638,049, Cl. 530-388.000.

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Shibui, Michiro; Hanamoto, Yoshihiro; Ishigaki, Yoshio; Sahara, Hiroshi; Maeda, Satoru; and Noguchi, Yasushi, 4,694,406, Cl. 364-518.000.

Noguchi, Yoji: *See*—
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Noguchi, Yoshiaki: *See*—
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Noguchi, Yoshikazu; Yokoi, Tatsuhisa; Takeya, Eisaku; and Osawa, Hideyuki, to Toyota Jidosha Kabushiki Kaisha; and Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Intake manifold for internal combustion engine having exhaust gas recirculation system. 4,648,373, 3-10-87, Cl. 123-568.000.

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Noguchi, Yukihide: *See*—
Shirai, Norio; Kishimoto, Jotaro; Noguchi, Yukihide; Ishibe, Hideomi; and Nagai, Kiyoshi, 4,662,915, Cl. 55-511.000.

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Nogueira, Eduardo D.; and Tezanos, Enrique H. Process for the production of lead from sulphide ores. 4,634,507, 1-6-87, Cl. 204-118.000.

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Noh, Chuji, to Tokiwa Kogyo Co., Ltd. Film tubing device for use in packaging apparatus. 4,696,147, 9-29-87, Cl. 53-550.000.

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Nohara, Hiroshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Marine contra-rotating propeller apparatus. 4,642,059, 2-10-87, Cl. 440-75.000.

Nohara, Isao: *See*—
Miyake, Yuzuru; Nohara, Isao; Sugioka, Takami; Onishi, Susumu; and Ueno, Toshiyuki, 4,715,548, Cl. 242-18.00R.

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Nohira, Hidetaka, to Toyota Jidosha Kabushiki Kaisha. Device for varying a valve timing and lift for an internal combustion engine. 4,696,265, 9-29-87, Cl. 123-90.160.

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G., to Joint Medical Products Corporation. Semi-con- ial joint. 4,634,444, 1-6-87, Cl. 623-20.000.
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Torii, Sigeru; Uneyama, Kenji; Tanaka, Hideo; Nokami, Junzo; Sasaoka, Michio; Saito, Norio; and Shirai, Takashi, 4,689,411, Cl. 540-358.000.
Nokia Limited: *See*—
Hood, Oliver S.; McGrath, Brendan; and Myllarinen, Juha, 4,676,559, Cl. 312-39.000.
Nokovich, Nicholas P.: *See*—
Rhoades, Lawrence J.; and Nokovich, Nicholas P., 4,656,788, Cl. 51-58.000.
Nokubo, Seiji: *See*—
Kohno, Teruhisa; Nokubo, Seiji; and Matsuoka, Akio, 4,673,220, Cl. 303-6.00C.
Nola, Frank J., to United States of America, National Aeronautics and Space Administration. Four quadrant control circuit for a brushless three-phase d.c. motor. 4,644,234, 2-17-87, Cl. 318-254.000.
Nola, Frank J., to United States of America, National Aeronautics and Space Administration. Bidirectional control system for energy flow in solar powered flywheel. 4,649,287, 3-10-87, Cl. 307-31.000.
Nolan, Daniel: *See*—
Fornuto, Joseph; Gifford, William E.; Nolan, Daniel; and Sherwood, Carl H., 4,706,708, Cl. 137-588.000.
Nolan, Daniel A.: *See*—
Hartmann, Michael J.; Lo, Kuang-hsin K.; and Nolan, Daniel A., 4,699,831, Cl. 428-35.000.
Nolan, Dennis C.; and Bluma, David A., to MagneTek, Inc. DC motor adaptive controller. 4,716,348, 12-29-87, Cl. 318-479.000.
Nolan, James M.: *See*—
Stiffler, Jack J.; Budwey, Michael J.; and Nolan, James M., 4,654,819, Cl. 364-900.000.
Nolan, John H.; and Nolan, William A. Magnetic valve. 4,637,427, 1-20-87, Cl. 137-460.000.
Nolan, John T., Jr.: *See*—
Bhattacharya, Ajit K.; and Nolan, John T., Jr., 4,636,576, Cl. 558-277.000.
Nolan, Joseph G., III: *See*—
Blankenship, Timothy L.; and Nolan, Joseph G., III, 4,698,589, Cl. 324-158.00R.
Nolan, Michael E.: *See*—
O'Hair, John G.; and Nolan, Michael E., 4,646,575, Cl. 73-861.310.
Nolan, Robert L., to Maxcap, Inc. Plastic cap. 4,635,808, 1-13-87, Cl. 215-252.000.
Nolan, Robert L., to Bankers Trust Co. Plastic bottle caps. 4,699,286, 10-13-87, Cl. 215-256.000.
Nolan, Thomas F.: *See*—
Truskalo, Walter; and Nolan, Thomas F., 4,683,405, Cl. 315-371.000.
Nolan, William A.: *See*—
Nolan, John H.; and Nolan, William A., 4,637,427, Cl. 137-460.000.
Nolan, William D. Portable combination hair shampoo basin and drying hood. 4,651,361, 3-24-87, Cl. 4-516.000.
Noland, Betty L., administrator: *See*—
Noland, Lyle J., deceased, 4,675,823, Cl. 364-460.000.

Noland, Carroll D.: *See*—
Williamson, Gerald E.; and Noland, Carroll D., 4,676,957, Cl. 111-7.000.

Noland, Lyle J., deceased (by Noland, Betty L., administrator), to Sundstrand Data Control, Inc. Ground proximity warning system geographic area determination, 4,675,823, 6-23-87, Cl. 364-460.000.

Noland, Richard L.: *See*—
Banura, George A.; and Noland, Richard L., 4,634,962, Cl. 324-57.00N.

Nold, Matthew D.: *See*—
VanBenthuysen, John D.; Zdanys, John, Jr.; and Nold, Matthew D., 4,670,629, Cl. 200-5.00C.

Nold, Peter: *See*—
Geller, Heinrich; Nold, Peter; Schermer, Heinz; and Rave, Ortwin, 4,640,447, Cl. 222-603.000.

Nold, Robert D., to Sundstrand Corporation. Generator high temperature electrical lead assembly, 4,712,029, 12-8-87, Cl. 310-71.000.

Nolde, Wolfgang, to U.S. Philips Corporation. FM-stereo receiver, 4,658,423, 4-14-87, Cl. 381-13.000.

Nolde, Wolfgang: *See*—
Jansen, Winfrid B.; and Nolde, Wolfgang, 4,669,119, Cl. 381-13.000.

Nolf, Jean-Marie E.; Genbrugge, Hubert; Buekers, Valere; Mendes, Luiz N.; Drouet, Jos; and Vansant, Jan, to N.V. Raychem S.A. Optical fibre breakout, 4,648,168, 3-10-87, Cl. 29-447.000.

Nolf, Jean-Marie E., to N.V. Raychem S.A. Branch-off method, 4,648,924, 3-10-87, Cl. 156-85.000.

Nolff, Douglas: *See*—
Crawford, Robert D.; Johnson, Wayne J.; Kimber, Theo, Jr.; Nolff, Douglas; Volk, Jack R.; and Franks, Donald C., 4,715,031, Cl. 370-85.000.

Nolin, Claude H. A.; and Tucoulat, Marcel J., deceased (by Tucoulat, Juliette F. J., Regine F. Pugliese, Christine F. Gameaux, legal representatives), to BP Chemicals Limited. Application of non aqueous fluids based on alkylene glycol monoether as heat transfer agent, 4,699,726, 10-13-87, Cl. 252-75.000.

Noll, Hans: *See*—
Flindt, Werner; and Noll, Hans, 4,679,722, Cl. 228-168.000.

Noll, Klaus: *See*—
Hesler, Joachim; Hauel, Norbert; Austel, Volkhard; Noll, Klaus; Bernhard, Andreas; van Meel, Jacques; and Diederen, Wilh, 4,716,169, Cl. 514-299.000.
Thoma, Wilhelm; Noll, Klaus; Nachtkamp, Klaus; Pedain, Josef; and Schroer, Walter, 4,652,466, Cl. 427-244.000.

Noll, Tobias: *See*—
Ulbrich, Walter; Ranner, Alois; and Noll, Tobias, 4,675,817, Cl. 364-788.000.

Noll, Wilfried; Ehmann, Konrad; Stehle, Hans P.; Dorner, Wolfgang; and Dietzsch, Gunter, to Andreas Stihl. Braking arrangement for a chain saw, 4,635,364, 1-13-87, Cl. 30-381.000.

Noll, Wilfried: *See*—
Apfel, Norbert; Stehle, Hans-Peter; and Noll, Wilfried, 4,693,007, Cl. 30-387.000.

Nollen, Klaus: *See*—
Burow, Wilfried; Printzen, Helmut; Brunn, Horst; and Nollen, Klaus, 4,698,100, Cl. 106-304.000.

Nolle, Hans T. Apparatus for performing fluoroimmunoassays of biological specimens, 4,668,868, 5-26-87, Cl. 250-458.100.

Nollet, Andreas J. H.; Meijer, John; and Overkamp, Johannes W. A., to Akzo NV. P-sulphophenyl carbonates and detergent compositions and detergent additives containing these compounds, 4,666,061, 5-11-87, Cl. 252-95.000.

Nollet, Michel, to Thomson-Lgt Laboratoire General des Telecommunications. Device for stopping the running of programs being executed in a microprocessor prior to the disappearance of the power supply voltage of the microprocessor, 4,672,585, 6-9-87, Cl. 365-228.000.

Nolph, Karl D.: *See*—
Twardowski, Zbylut J.; Nolph, Karl D.; and Khanna, Ramesh, 4,687,471, Cl. 604-175.000.

Nolte, Albert C., Jr.: *See*—
Walker, Harold L., 4,642,070, Cl. 474-57.000.

Nolte, Bernhard: *See*—
Wyk, Hans-Joachim; Stellmach, Dieter; Nolte, Bernhard; Grotewald, Gerd; and Macdge, Werner, 4,701,063, Cl. 400-621.000.

Nolte, David B., to Sundstrand Data Control, Inc. Frequency multiplier, 4,634,997, 1-6-87, Cl. 328-160.000.

Nolte, Gunther, to Conrad Scholtz AG. Belt conveyor plant, 4,676,367, 6-30-87, Cl. 198-821.000.

Nolte, Gunther, to Conrad Scholtz AG. Method and device for unloading bulk material from a large container, 4,681,503, 7-21-87, Cl. 414-144.000.

Nolte, Hans-Henning; and Zernad, Wolfgang, to Flachglass Aktiengesellschaft. Method of making a fire-resistant translucent solid layer, 4,676,998, 6-30-87, Cl. 427-161.000.

Nolte, Stanley C.: *See*—
Appelbaum, Matthew A.; Lehman, David B.; Nieglos, Donald J.; Nolte, Stanley C.; and Oehler, Michael P., 4,683,968, Cl. 180-4.000.

Nolting, Peter, to Robert Bosch GmbH. Arrangement for determining ambient temperature in a motor vehicle, 4,682,536, 7-28-87, Cl. 98-2.010.

Noma, Akira; and Osawa, Izuno, to Minolta Camera Kabushiki Kaisha. Image forming method using long wavelength light source, 4,699,864, 10-13-87, Cl. 430-100.000.

Noma Inc.: *See*—
Maddock, William H., 4,656,320, Cl. 191-12.400.
Maddock, William H.; and Bobrowniczky, Bert, 4,678,155, Cl. 248-229.000.

Noma, Kanji: *See*—
Kitamura, Hironori; and Noma, Kanji, 4,680,250, Cl. 430-302.00.
Yokota, Yuzo; Noma, Kanji; Kawase, Kiyotaka; Kitamura, Hironori; and Kamgami, Masayuki, 4,680,322, Cl. 514-416.00.

Noma, Kōuchi: *See*—
Fukamachi, Toshio; Matsuda, Kazuto; Noma, Kouchi; Kawab, Toshiaki; Sakurai, Toshio; and Osawa, Takeshi, 4,643,351, Cl. 236-44.00E.

Noma, Takashi: *See*—
Matsui, Hideo; Fujie, Hiroshi; and Noma, Takashi, 4,718,215, Cl. 52-348.000.
Nishimura, Yukuo; Asano, Toshiaki; Mizunawa, Nobuyuki; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,640,502, Cl. 350-96.320.
Nishimura, Yukuo; Kawakami, Eigo; Asano, Toshiaki; Haruta, Masahiro; Takagi, Hiroshi; Noma, Takashi; Mizunawa, Nobuyuki; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,685,786, Cl. 350-96.320.

Noma, Takeshi: *See*—
Wada, Minoru; Hidaka, Chihiro; and Noma, Takeshi, 4,697,744, Cl. 241-20.000.

Nomaguchi, Tamotsu: *See*—
Fujiwara, Michio; Kazumoto, Yoshio; Nomaguchi, Tamotsu; Tachibana, Kazumori; Kawajiri, Kazuhiko; and Hisamoto, Yoshiaki, 4,662,176, Cl. 60-526.000.

Nomi, Haruo, to Japan Gore-Tex, Inc. Water-vapor-permeable, waterproof, highly elastic films, 4,692,369, 9-8-87, Cl. 428-195.000.

Nomix Manufacturing Co. Limited: *See*—
Gill, David C., 4,690,326, Cl. 239-223.000.
Gill, David C., 4,712,738, Cl. 239-74.000.

Nomori, Hiroyuki: *See*—
Takei, Yoshiaki; Nomori, Hiroyuki; and Matsuura, Kazuo, 4,637,971, Cl. 430-59.000.
Yamazaki, Toshinori; Sakai, Eiichi; and Nomori, Hiroyuki, 4,668,599, Cl. 430-84.000.
Yamazaki, Toshinori; Nakanishi, Tatsuo; Murakawa, Yuji; Takenouchi, Shigeki; and Nomori, Hiroyuki, 4,671,629, Cl. 430-58.000.
Yamazaki, Toshinori; Sakai, Eiichi; Nakanishi, Tatsuo; and Nomori, Hiroyuki, 4,677,044, Cl. 430-58.000.

Nomoto, Hiroyo: *See*—
Terauchi, Masayuki; Takahashi, Mitsuru; Nomoto, Hiroyo; Kan, Hiroshi; Shuto, Katsuichi; Kubo, Kazuhiro; and Katsuura, Akira, 4,677,125, Cl. 514-7.000.

Nomoto, Kaoru: *See*—
Tamai, Yoshin; Yamamoto, Fumito; Shiono, Manzo; Kawabata, Koichi; Ozasa, Hiroshi; and Nomoto, Kaoru, 4,656,195, Cl. 514-772.000.

Nomoto, Reishi; and Ozaki, Yoshiaki. Arrangement of push-button controlled floppy disc device, 4,668,125, 8-19-87, Cl. 360-99.000.

Nomoto, Seuchiro: *See*—
Saito, Isao; Nomoto, Seuchiro; Kamiya, Takashi; Yamauchi, Hiroshi; Sugiyama, Isao; Machida, Yoshimasa; and Segi, Shigeki, 4,698,336, Cl. 514-202.000.

Nomoto, Takasi: *See*—
Segoshi, Toru; and Nomoto, Takasi, 4,656,563, Cl. 362-61.000.

Nomoto, Yoshitaka; Yamauchi, Hirofumi; Sakurai, Shigeru; Ohkubo, Kenji; Kurita, Hideaki; and Yagi, Kunihiro, to Mazda Motor Corporation. Exhaust gas cleaning system for vehicle, 4,665,690, 5-19-87, Cl. 60-286.000.

Nomoto, Yoshitaka: *See*—
Nishida, Takumi; Nomoto, Yoshitaka; Sahara, Masanori; and Yamauchi, Hirofumi, 4,669,429, Cl. 123-179.00E.

Nomoto, Yuji: *See*—
Takai, Haruki; Nomoto, Yuji; Hirata, Tadashi; Ohno, Tomiji; and Kubo, Kazuhiro, 4,668,683, Cl. 514-259.000.

Nomura, Akihiro: *See*—
Matsui, Kunio; Fukase, Hisahiko; and Nomura, Akihiro, 4,694,857, Cl. 164-428.000.
Nishino, Fumio; Onoda, Shigeyoshi; Nomura, Akihiro; Mizutani, Morikazu; Kanemitsu, Shinji; and Tortumi, Motoitada, 4,714,377, Cl. 355-3.0DR.

Nomura, Akira: *See*—
Enomoto, Hiroshi; Kawanata, Masanobu; Nomura, Akira; Aoyagi, Yoshiaki; and Ueda, Fumio, 4,657,907, Cl. ... 5-245.000.

Nomura, Etsuji: *See*—
Hori, Makoto; Nomura, Etsuji; Niwa, Hitoshi; Mukai, Hirokatsu; and Tanaka, Toshiaki, 4,667,644, Cl. 123-549.000.
Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoto; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, 4,655,417, Cl. 123-549.000.
Yoshida, Hitoshi; Suzuki, Hirofumi; Oyeke, Kazuo; Nomura, Etsuji; Matsui, Kazuma; and Miwa, Naoto, 4,671,058, Cl. 60-303.000.

Nomura, Etsuzo; Kozawa, Tetsuo; and Sakakibara, Yasuo, to Brother Kogyo Kabushiki Kaisha. Presser device for sewing machine, 4,676,179, 6-30-87, Cl. 112-239.000.

Nomura, Etsuzo; Kozawa, Tetsuo; and Sakakibara, Yasuo, to Brother Kogyo Kabushiki Kaisha. Sewing machine having an automatic control system, 4,704,978, 11-10-87, Cl. 112-275.000.

Nomura, Etsuzo: *See*—
Senda, Yutaka; Sato, Katsuhiko; Kozawa, Tetsuo; Nomura, Etsuzo; and Sakakibara, Yasuo, 4,706,584, Cl. 112-121.110.

Nomura, Eturo; Sakakibara, Yasuo; Kozawa, Tetsuo; Nishida, Yukio; and Kondo, Ikuzo, to Brother Kogyo Kabushiki Kaisha. Sewing machine. 4,712,497, 12-15-87, Cl. 112-315.000.

Nomura, Fujio. *See*—
Nishizawa, Kazutoshi; Takagi, Masashi; Matsuoka, Akio; and Nomura, Fujio. 4,715,800, Cl. 418-69.000.

Nomura, Hideki. *See*—
Shimizu, Isao; Hirano, Ryotaro; Matsumura, Yasuo; Nomura, Hideki; Uchida, Kazumichi; and Sato, Atsushi. 4,694,100, Cl. 560-105.000.

Nomura, Hiroaki; Nishikawa, Kohei; and Tsushima, Susumu, to Takeda Chemical Industries, Ltd. Certain 3-alkoxy-2-cyclic-imido-propyl-phosphate-ethylcyclic ammonium hydroxide inner salts which inhibit activities of platelet activating factor. 4,650,791, 3-17-87, Cl. 514-82.000.

Nomura, Hiroaki. *See*—
Inoue, Kenzo; Nomura, Hiroaki; and Okutani, Tetsuya. 4,675,430, Cl. 556-172.000.
Nishimura, Susumu; Nomura, Hiroaki; and Akimoto, Hiroshi. 4,650,888, Cl. 544-280.000.
Nojima, Shoshichi; Nomura, Hiroaki; and Tsushima, Susumu. 4,649,203, Cl. 548-112.000.
Nojima, Shoshichi; Nomura, Hiroaki; and Okutani, Tetsuya. 4,710,579, Cl. 558-169.000.

Nomura, Hirokazu; Sato, Yukihiko; Morishige, Eiji; Nishi, Yasuhiko; Higurashi, Mitsuhiro; and Mori, Suharo, to Nippon Kokan Kabushiki Kaisha and Nippon Kokan Koji Kabushiki Kaisha. Gas-shielded arc welding apparatus. 4,672,173, 6-9-87, Cl. 219-125.100.

Nomura, Hirokazu; Sato, Yukihiko; Nishi, Yasuhiko; Higurashi, Mitsuhiro; and Mori, Suharo, to Nippon Kokan Kabushiki Kaisha and Nippon Kokan Koji Kabushiki Kaisha. Gas shield chamber for arc welding of rails. 4,688,341, 8-11-87, Cl. 219-54.000.

Nomura, Hirokazu. *See*—
Arai, Michihiko; Shimura, Yukio; Tsuda, Kenshiro; Ueno, Susumu; Nomura, Hirokazu; and Ishida, Kiyoshi. 4,639,379, Cl. 427-40.000.
Ueno, Susumu; Kuroda, Kouji; Nomura, Hirokazu; and Tateno, Shigeru. 4,637,951, Cl. 156-272.600.
Ueno, Susumu; Hoshida, Shigehiro; and Nomura, Hirokazu. 4,664,936, Cl. 427-38.000.

Nomura, Hiroshi; and Kubota, Tetsuo, to Sanyo Electric Co., Ltd. Automatic gain control circuit. 4,658,297, 4-14-87, Cl. 358-174.000.
Nomura, Hiroshi; and Saito, Susumu, to Diesel Kiki Co., Ltd. Piston and cylinder for reciprocating compressor. 4,676,143, 6-30-87, Cl. 92-241.000.
Nomura, Hiroshi; Shitara, Motoyuki; Echizen, Susumu; and Saito, Susumu, to Diesel Kiki Co., Ltd. Swash-plate type rotary compressor with lubrication of swash plate and peripheral parts thereof. 4,704,073, 11-3-87, Cl. 417-269.000.

Nomura, Hiroshi. *See*—
Ishii, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu. 4,690,619, Cl. 417-269.000.
Ishii, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu. 4,715,790, Cl. 417-269.000.
Oishi, Kiyohiko; Nakanishi, Kiyoshi; Kayamura, Nobuaki; Kawai, Tayo; Nakagawa, Norihisa; and Nomura, Hiroshi. 4,667,636, Cl. 123-432.000.
Yoshimoto, Shinichi; Ando, Reigo; Shirai, Takeshi; and Nomura, Hiroshi. 4,674,077, Cl. 369-57.000.

Nomura, Hirotoshi. *See*—
Tajiri, Kosuke; and Nomura, Hirotoshi. 4,676,633, Cl. 106-1.110.

Nomura, Ichiro. *See*—
Kan, Fumitaka; Hayakawa, Naoji; Majima, Toshiaki; Takemoto, Masanori; Yamamoto, Mitsuru; Suzuki, Hidetoshi; and Nomura, Ichiro. 4,673,699, Cl. 346-76.00R.

Nomura, Ikuo. *See*—
Emori, Yasuyoshi; and Nomura, Ikuo. 4,709,591, Cl. 74-422.000.

Nomura, Isao. *See*—
Shimizu, Setsuo; Nomura, Isao; and Narita, Kenichi. 4,702,859, Cl. 252-511.000.

Nomura, Isshi. *See*—
Yogo, Kenji; and Nomura, Isshi. 4,658,798, Cl. 123-559.300.

Nomura, Iwao; Masuyama, Takayuki; Tanigawa, Yasuo; and Hasimoto, Hirofumi, to Toyota Jidosha Kabushiki Kaisha. Apparatus for opening and closing a vehicle door which is located in a line for manufacturing a vehicle. 4,636,136, 1-13-87, Cl. 414-730.000.

Nomura, Junji; Ishibashi, Yuzuru; and Kaneda, Akira, to Asahi Kasei Kogyo Kabushiki Kaisha. Selective separation of borate ions in water. 4,666,883, 5-19-87, Cl. 502-402.000.

Nomura, Katsuaki; and Tsurumi, Hideyuki, to Japan Exlan Company Limited. Softening agent and method of producing acrylic fiber having animal hair-like touch by treatment with said agent. 4,663,200, 5-5-87, Cl. 427-387.000.

Nomura, Katunori. *See*—
Kanatani, Tadayuki; Nomura, Katunori; and Uchida, Hirotaka. 4,662,203, Cl. 72-9.000.

Nomura, Kazuhiro; and Nomura, Masayuki, to Toyota Jidosha Kabushiki Kaisha. Side door hinge mechanism in motor vehicle. 4,641,881, 2-10-87, Cl. 296-202.000.

Nomura, Kazuhiro, to Toyota Jidosha Kabushiki Kaisha. Construction of mudguard of movable fender portion in motor vehicle. 4,678,198, 7-7-87, Cl. 280-153.00A.

Nomura, Keizo. *See*—
Morita, Koyo; Nomura, Keizo; Nishizuka, Hiroshi; Hoshi, Tai; Tamiya, Yoichiro; and Asakawa, Terushige. 4,701,608, Cl. 250-205.000.

Nomura, Ken. *See*—
Hattori, Yoshiyuki; Nomura, Ken; Goshima, Takahiro; and Taniaka, Hitoshi. 4,705,492, Cl. 474-49.000.
Hattori, Yoshiyuki; Matsui, Kazuma; Imani, Yuichi; Kuno, Akira; Nagata, Tetsuya; Nakane, Koji; and Nomura, Ken. 4,715,663, Cl. 303-110.000.
Takagi, Koji; Nomura, Ken; Hattori, Yoshiyuki; and Kamiya, Masahiko. 4,708,406, Cl. 303-115.000.
Take, Toshihiro; Hattori, Yoshiyuki; and Nomura, Ken. 4,674,540, Cl. 137-625.650.
Takeo, Yuji; Yoshimi, Tomohisa; Shimoda, Yoshio; and Nomura, Ken. 4,674,230, Cl. 49-32.000.

Nomura, Kenji. *See*—
Tanji, Hiroaki; Suzuki, Masaharu; Nomura, Kenji; Watanabe, Shigeo; and Kawasaki, Takashi. 4,690,841, Cl. 428-35.000.

Nomura, Kohei, to Kabushiki Kaisha Osaka Jidoki Seisakusho. Method and apparatus for arranging capped capsules in a single direction. 4,708,233, 11-24-87, Cl. 198-397.000.

Nomura, Makoto. *See*—
Murakawa, Shigemi; Taguchi, Seiji; Nomura, Makoto; Takabe, Ryoji; Iwashita, Yoshiharu; and Ishii, Masaharu, 4,697,453, Cl. 73-293.00R.

Nomura, Masaharu; Tougawa, Hiroaki; Ishizaka, Yukio; and Hirano, Hiroomi, to Nippon Kayaku Kabushiki Kaisha. Heat-sensitive recording sheet. 4,682,192, 7-21-87, Cl. 503-200.000.

Nomura, Masahiro. *See*—
Maeda, Akiya; Sakai, Mituya; Masaka, Yukimobu; Nomura, Masahiro; Yamada, Yasuo; and Tatsuhama, Tetsuro, 4,711,501, Cl. 299-21.000.

Nomura, Masami, to Mitsubishi Denki Kabushiki Kaisha. Control apparatus for A.C. elevator. 4,667,776, 5-26-87, Cl. 187-105.000.

Nomura, Masami, to Mitsubishi Denki Kabushiki Kaisha. Control apparatus for A.C. elevator. 4,667,777, 5-26-87, Cl. 187-112.000.

Nomura, Masayuki. *See*—
Nomura, Kazuhiro; and Nomura, Masayuki. 4,641,881, Cl. 296-202.000.

Nomura, Minoru, to NEC Corporation. Equalized capacitance wiring method for LSI circuits. 4,694,403, 9-15-87, Cl. 364-488.000.

Nomura, Misao; and Fujioka, Utaroo, to Shinko Denshi Company Limited. Lead detecting mechanism. 4,662,464, 5-5-87, Cl. 177-229.000.

Nomura, Noboru; Kugimiya, Koichi; Matsumura, Takayoshi; and Yowazawa, Taketoshi, to Matsushita Electric Industrial Co., Ltd. Aligning exposure method. 4,636,077, 1-13-87, Cl. 356-356.000.

Nomura, Noboru; and Shimeki, Yasuharu, to Matsushita Electric Industrial Co., Ltd. Magnetoresistive thin film head. 4,660,113, 4-21-87, Cl. 360-113.000.

Nomura, Noboru. *See*—
Kanai, Kenji; Kammaka, Nobuyuki; Nomura, Noboru; and Obata, Yuuji. 4,672,496, Cl. 360-126.000.
Kawakita, Kenji; Nomura, Noboru; and Takemoto, Toyoki. 4,685,198, Cl. 437-73.000.

Nomura, Ryuichi. *See*—
Miyoshi, Shoji; and Nomura, Ryuichi. 4,715,418, Cl. 152-451.000.

Nomura, Satoru. *See*—
Higashi, Ryoji; and Nomura, Satoru. 4,683,502, Cl. 358-342.000.

Nomura, Setsuo; and Isakozawa, Shigeto, to Hitachi, Ltd. Focusing device for a television electron microscope. 4,680,469, 7-14-87, Cl. 250-311.000.

Nomura, Setsuo; Kuboyose, Morioki; and Isakozawa, Shigeto, to Hitachi, Ltd. Focusing apparatus used in a transmission electron microscope. 4,698,503, 10-6-87, Cl. 250-311.000.

Nomura, Shigeo; and Nakanishi, Syoji, to Sanyo Electric Co., Ltd. Rechargable electric can opener. 4,702,007, 10-27-87, Cl. 30-423.000.

Nomura, Shinichi. *See*—
Inoue, Akira; Nomura, Shinichi; and Hanami, Osamu, 4,683,408, Cl. 318-696.000.

Nomura, Shinji. *See*—
Fukushima, Noburu; Yoshino, Hisashi; and Nomura, Shinji. 4,642,136, Cl. 75-234.000.

Nomura, Tadatoshi. *See*—
Enomoto, Hiroshi; Nomura, Tadatoshi; Aoyagi, Yoshiaki; Chokai, Shoichi; Fujita, Yukio; Kono, Tatsuhiko; Murase, Masao; Inoue, Kichiro; and Adachi, Masahiro, 4,711,898, Cl. 514-312.000.

Nomura, Takao. *See*—
Okumura, Munehiro; Nomura, Takao; Matsuda, Tadashi; Kubo, Shujiro; Ishii, Shinichi; and Hattori, Hideki, 4,690,764, Cl. 210-629.000.

Nomura, Takeshi. *See*—
Maruyama, Kouji; Nomura, Takeshi; Ueno, Hiroshi; and Isobe, Naomi, 4,686,265, Cl. 526-125.000.

Nomura, Tetsuro, to Sanki Vinyl Kabushiki Kaisha. File. 4,706,396, 11-17-87, Cl. 40-124.200.

Nomura, Tomio. *See*—
Izumi, Takayuki; Naito, Tsutomu; Shinya, Masao; and Nomura, Tomio, 4,655,902, Cl. 208-22.000.

Nomura, Toyokazu. *See*—
Iwasa, Koji; Kamamori, Hitoshi; Sugimoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji, 4,670,188, Cl. 252-513.000.

Nomura, Tutomu. *See*—
Kubo, Osamu; Nomura, Tutomu; Ido, Tadashi; and Yokoyama, Hirotaka, 4,636,433, Cl. 428-328.000.

Nomura, Yasushi. *See*—
Furuta, Yoshiteru; and Nomura, Yasushi. 4,668,617, Cl. 435-4.000.

Makiguchi, Kyoko; Sagusa, Hisayuki; and Nomura, Yasushi, 4,684,252, Cl. 356-328.000.

Nomura, Yoichi: *See*—
Wada, Shintaro; Takahashi, Hisanori; and Nomura, Yoichi, 4,679,563, Cl. 128-640.000.

Nomura, Yoshifumi: *See*—
Okada, Hiromi; Nakanishi, Yoshiro; and Nomura, Yoshifumi, 4,646,293, Cl. 370-85.000.

Nomura, Yoshihisa; Oka, Hiroyuki; and Otsuki, Hiromi, to Toyota Jidosha Kabushiki Kaisha; and Nippondenso Co., Ltd. Anti-skid brake system. 4,640,558, 2-3-87, Cl. 303-119.000.

Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, to Toyota Jidosha Kabushiki Kaisha. Wheel slip controlling system. 4,648,663, 3-10-87, Cl. 303-106.000.

Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, to Toyota Jidosha Kabushiki Kaisha. Wheel slip control system. 4,681,373, 7-21-87, Cl. 303-106.000.

Nomura, Yoshihisa; Suda, Koichi; and Kozawa, Tadashi, to Toyota Jidosha Kabushiki Kaisha; and Aisan Kogyo Kabushiki Kaisha. Sealing construction for slide type vacuum pump with finger portions of spring element pressing cylindrical portion of seal element against cylinder bore. 4,694,734, 9-22-87, Cl. 92-130.00R.

Nomura, Yoshihisa: *See*—
Matsui, Kazuma; Hattori, Yoshiyuki; Imani, Yuichi; Kano, Akira; and Nomura, Yoshihisa, 4,687,260, Cl. 303-119.000.
Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nomura, Yoshihisa; and Ohashi, Kaoru, 4,637,487, Cl. 180-197.000.
Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Ohashi, Kaoru; and Nomura, Yoshihisa, 4,681,374, Cl. 303-106.000.
Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; Nomura, Yoshihisa; Noguchi, Noboru; and Shibata, Hirochika, 4,668,024, Cl. 303-119.000.
Nakanishi, Nobuyasu; and Nomura, Yoshihisa, 4,703,979, Cl. 303-116.000.
Ohashi, Kaoru; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nakamura, Kazumasa; and Nomura, Yoshihisa, 4,685,547, Cl. 192-3.00R.
Otsuki, Hiromi; Matsuura, Ryoichi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,685,749, Cl. 303-116.000.
Otsuki, Hiromi; Numata, Kenichi; Matsuura, Ryoichi; Nomura, Yoshihisa; Nakanishi, Nobuyasu; and Oka, Hiroyuki, 4,715,667, Cl. 303-119.000.
Tsuru, Naohiko; Matsuura, Ryoichi; Otsuki, Hiromi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,636,009, Cl. 303-93.000.

Nomura, Yukihiro: *See*—
Sugisawa, Ko; Yamamoto, Masanori; Yasuda, Atsushi; Nomura, Yukihiro; and Amano, Toshio, 4,687,739, Cl. 435-69.000.

Non Mar, Inc.: *See*—
Kellogg, Joseph A.; and Prather, James E., 4,677,840, Cl. 72-465.000.

Non-Toxic Components, Inc.: *See*—
Roster, Thomas A., 4,676,170, Cl. 102-449.000.

Nona, Jerry R.: *See*—
Chambers, Joseph W., Sr.; and Nona, Jerry R., 4,702,422, Cl. 241-46.060.

Nonaka, Henry H.: *See*—
Reeve, Alan L.; and Nonaka, Henry H., 4,689,409, Cl. 536-102.000.

Nonaka, Hikaru, to Kabushiki Kaisha Toshiba. Refrigeration having mode-change chamber capable of operation within freezing, chill and refrigeration temperature ranges. 4,689,966, 9-1-87, Cl. 62-187.000.

Nonaka, Hikaru: *See*—
Yamada, Teturo; and Nonaka, Hikaru, 4,646,536, Cl. 62-234.000.

Nonaka, Masami; Kato, Noboru; and Hibi, Kazuhiro, to Fuji Electrochemical Co., Ltd. Noise filter for three-phase four-wire system. 4,677,401, 6-30-87, Cl. 333-167.000.

Nonaka, Mitsuhiro: *See*—
Mochizuki, Manabu; Ikeda, Itsuo; Kurotori, Tsuneo; Shinguryo, Satoshi; Miyakawa, Seiichi; Kobayashi, Yuichi; Nonaka, Mitsuhiro; and Fukuda, Haruhiko, 4,669,859, Cl. 355-10.000.

Nonaka, Nobuyasu: *See*—
Ohtani, Tamio; Kanaya, Yasuhiko; Aoyama, Hiroshi; and Nonaka, Nobuyasu, 4,658,494, Cl. 29-568.000.

Nonaka, Saneo: *See*—
Sakuma, Shin; Sakamoto, Kumaki; Kitagawa, Hisashi; Sakoh, Mitsuo; and Nonaka, Saneo, 4,704,274, Cl. 424-88.000.

Nonaka, Shingo: *See*—
Mori, Masashi; Nonaka, Shingo; and Nagai, Setji, 4,695,167, Cl. 366-181.000.
Toda, Masumi; Ozaki, Yukio; and Nonaka, Shingo, 4,638,945, Cl. 239-143.000.

Nonaka, Susumu: *See*—
Shimada, Mitsuhiro; Matsumoto, Junichiro; Nonaka, Susumu; and Sayama, Haruo, 4,710,041, Cl. 400-120.000.

Nonaka, Terumoto: *See*—
Nishizawa, Jun-ichi; Mochida, Yasunori; Nonaka, Terumoto; and Yoshida, Takashi, 4,700,213, Cl. 357-42.000.

Nonaka, Toyokazu: *See*—
Nishida, Takeshi; Sano, Jyunji; and Nonaka, Toyokazu, 4,646,366, Cl. 2-108.000.

Nonaka, Yasuhiko: *See*—
Maruyama, Masanori; Moriya, Masamichi; Kato, Shinichi; Fukushima, Masakazu; Nonaka, Yasuhiko; and Oguro, Chihaya, 4,682,077, Cl. 315-14.000.

Nonaka, Yoshimasa, to Augat Inc. IC socket contact. 4,647,134, 3-3-87, Cl. 339-75.00M.

Nonaka, Yoshiyuki: *See*—
Hirabayashi, Shigeto; Matsuzaka, Syoji; Ohya, Yukio; and Nonaka, Yoshiyuki, 4,710,453, Cl. 430-505.000.

Nonaka, Yuji: *See*—
Morinaka, Hideo; Nakanishi, Akira; and Nonaka, Yuji, 4,668,831, Cl. 568-779.000.

Nonaka, Yuzo, to Disco Abrasive Systems, Ltd. Semiconductor wafer mounting and cutting system. 4,696,712, 9-29-87, Cl. 156-351.000.

Nonini, Geremia: *See*—
Poloni, Alfredo; and Nonini, Geremia, 4,704,889, Cl. 72-428.000.

Nonnecke, Ernst. Ship's hull with a cantilevered elastic stern tube arrangement for the elastic mounting of the tailshaft. 4,699,599, 10-13-87, Cl. 440-112.000.

Nonnenmann, Manfred, to Sueddeutsche Kuhlerfabrik Julius Fr. Behr GmbH & Co. KG. Catalytic reactor arrangement including catalytic reactor matrix. 4,647,435, 3-3-87, Cl. 422-180.000.

Nonnenmann, Manfred; Hauser, Kurt; and Gohl, Hans-Dieter, to Daimler-Benz Aktiengesellschaft; and Suddeutsche Kuhlerfabrik Julius Fr. Behr GmbH & Co. KG. Air conveying device on a radiator for water-cooled internal combustion engines. 4,655,686, 4-7-87, Cl. 416-189.000.

Nonnenmann, Manfred, to Sueddeutsche Kuehlerfabrik Julius Fr. Behr GmbH & Co. KG. Carrier matrix for a catalytic reactor for the purification of exhaust gas. 4,665,051, 5-12-87, Cl. 502-439.000.

Nonoguchi, Hiroshi: *See*—
Fukunaga, Masao; and Nonoguchi, Hiroshi, 4,691,870, Cl. 241-36.000.

Nonomiya, Kojiro; and Sakuma, Satoru, to Bando Kagaku Kabushiki Kaisha. Rice-hulling roller. 4,662,274, 5-5-87, Cl. 99-620.000.

Nonomura, Arthur M., to Microbio Resources, Inc. Process for producing a naturally-derived carotene/oil composition by direct extraction from algae. 4,680,314, 7-14-87, Cl. 514-725.000.

Nonomura, Arthur M., to Microbio Resources, Inc. Naturally-derived carotene/oil composition. 4,713,398, 12-15-87, Cl. 514-725.000.

Nonomura, Keisaku: *See*—
Takeda, Makoto; Nonomura, Keisaku; and Funada, Fumiaki, 4,649,383, Cl. 340-805.000.
Takeda, Makoto; Nonomura, Keisaku; and Yamamoto, Kunihiko, 4,710,768, Cl. 340-805.000.

Nonomura, Kinzo: *See*—
Hamada, Kiyoshi; Watanabe, Masanori; Nonomura, Kinzo; Katsuyama, Minoru; and Hirano, Riyuma, 4,651,058, Cl. 315-98.000.

Nonomura, Masamitu: *See*—
Arakawa, Satoshi; and Nonomura, Masamitu, 4,713,549, Cl. 250-484.100.

Nonomura, Yutaka; Sugiyama, Jun; Komatsubara, Hirofumi; and Takeuchi, Masaharu, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Torque measuring apparatus. 4,697,459, 10-6-87, Cl. 73-862.360.

Nonoue, Torahiko: *See*—
Shiraki, Kenhachi; Kikkawa, Shinichi; Izawa, Takaharu; Miyazaki, Yoshifumi; Nonoue, Torahiko; and Moriki, Etsuzo, 4,645,328, Cl. 355-8.000.

Nonoyama, Hideo; Fukuizumi, Toshiharu; and Morita, Akiyoshi, to Toyota Jidosha Kabushiki Kaisha. Cast iron making by cerium addition. 4,681,642, 7-21-87, Cl. 148-321.000.

Nonoyama, Hideo: *See*—
Morita, Akiyoshi; Nonoyama, Hideo; and Fukuizumi, Toshiharu, 4,652,724, Cl. 219-121.01.M.
Morita, Akiyoshi; Nonoyama, Hideo; Fukuizumi, Toshiharu; and Uruno, Kiyokazu, 4,661,676, Cl. 219-121.01.M.

Nooi, Jacobus R.: *See*—
Parslow, Michael W.; and Nooi, Jacobus R., 4,648,979, Cl. 252-8.800.
Parslow, Michael W.; and Nooi, Jacobus R., 4,661,289, Cl. 252-5+7.000.

Noon, Kelly D. Disposable beverage cup handle. 4,685,583, 8-11-87, Cl. 220-94.00R.

Noon, Richard A.: *See*—
Thomas, Clayton A., 4,644,876, Cl. 108-111.000.

Noon, Richard E.: *See*—
Jeromin, Lothar S.; and Noon, Richard E., 4,662,313, Cl. 118-691.000.

Noon, Robert A.; Crowley, Patrick J.; and Worthington, Diana M., to Imperial Chemical Industries PLC. Triazoles and use as fungicides and plant growth regulators. 4,634,466, 1-6-87, Cl. 71-92.000.

Noon, Robert A.: *See*—
Kay, Ian T.; and Noon, Robert A., 4,709,038, Cl. 546-316.000.

Noonan, Denise J.: *See*—
Russell, John L., Jr.; and Noonan, Denise J., 4,675,150, Cl. 376-340.000.

Noonan, John M.; and Caccamo, Anthony F., to Eastman Kodak Company. Novel photocrosslinkable liquid crystalline polymers. 4,696,990, 9-29-87, Cl. 526-304.000.

Noonan, Joseph F.: *See*—
Raabe, Rodney D.; Mrowka, Joseph J.; McCuin, Jon P.; and Noonan, Joseph F., 4,679,120, Cl. 361-358.000.
Raabe, Rodney D.; Mrowka, Joseph J.; McCuin, Jon P.; and Noonan, Joseph F., 4,713,728, Cl. 361-363.000.

Noor, Sybille: *See*—
Bonisch, Heinz-Jurgen; Brandl, Gerhard; Noor, Sybille; Oehling, Karl-Heinz; Riedl, Walter; Theissen, Mario; Wodiczka, Ernst; and Macht, Alwin. 4,691,670, Cl. 123-52.0MF.

Noord Nederlandsche Machinefabriek B.V.: *See*—
van Ox, Cornelis J., 4,653,381, Cl. 91-61.000.

Noori, Ghazi: *See*—
Dahmen, Jan; Frejd, Torbjorn; Magnusson, Goran; and Noori, Ghazi. 4,675,392, Cl. 536-17.600.

Noorily, Peter; and Slachetka, Joseph P., to Thomas & Betts Corporation. Electrical connector and cable termination apparatus therefor. 4,682,836, 7-28-87, Cl. 439-426.000.

Noorily, Peter, to Thomas & Betts Corporation. Electrical connector and latching apparatus therefor. 4,711,507, 12-8-87, Cl. 439-292.000.

Noorily, Peter, to Thomas & Betts Corporation. Latching apparatus for an electrical connector. 4,711,511, 12-8-87, Cl. 439-347.000.

Noorily, Peter: *See*—
Strauss, Richard F.; Herb, Phillip; Noorily, Peter; and Rodrigues, Julio. 4,676,850, Cl. 156-55.000.
Strauss, Richard F.; Herb, Phillip; Noorily, Peter; and Rodrigues, Julio. 4,695,679, Cl. 174-117.0FF.

Noorlander, Daniel O. Teat cup assembly with automatic cut off valve. 4,648,350, 3-10-87, Cl. 119-14.320.

Noorlander, Daniel O.; and Heckmann, Richard A. Dry powdered germicide and healing compositions. 4,668,692, 5-26-87, Cl. 424-190.000.

Noorlander, Daniel O. Nontoxic, germicide, and healing compositions. 4,670,263, 6-2-87, Cl. 424-195.100.

Nootenboom, Peter: *See*—
Ganguli, Keshab L.; Nootenboom, Peter; and Lox, Cornelis M., 4,657,889, Cl. 502-335.000.
Dafetans, Johannes C.; Nootenboom, Peter; Ganguli, Keshab L.; and Lok, Cornelis M., 4,683,088, Cl. 260-409.000.

Norac Corporation: *See*—
Christian, Ralph R., 4,688,691, Cl. 220-3.000.

Norber, Kurt: *See*—
Jauch, Hermann; and Nopper, Kurt, 4,664,532, Cl. 368-273.000.

Norel Ky: *See*—
Mullylla, Risto; Kopola, Harri; Kostamovaara, Juha; and Ahola, Raimo, 4,640,514, Cl. 273-310.000.

Norin: *See*—
Frese, Donald E.; and Wirkkala, Gerald P., 4,671,013, Cl. 49-380.000.

Norand Corporation: *See*—
Hacker, David C., 4,716,354, Cl. 320-39.000.
Hanson, George E., 4,694,237, Cl. 320-6.000.
Roenck, Steven E.; and Hacker, David C., 4,709,202, Cl. 320-43.000.

Norandа Inc.: *See*—
Kitzinger, Frank; and Labuc, Vladimir M., 4,708,495, Cl. 374-154.000.
Stanley, Robert W.; Harris, G. Bryn; and Monette, Serge, 4,670,052, Cl. 75-118.00R.

Norandy, Incorporated: *See*—
Andrews, Norwood H., 4,664,319, Cl. 241-39.000.

Norback, Per G., to AB Carl Munters. Method and device for regeneration of an exchanger body. 4,699,635, 10-13-87, Cl. 55-33.000.

Norback, Per G., to AB Carl Munters. Contact body. 4,708,832, 11-24-87, Cl. 261-153.000.

Norbar Torque Tools Ltd.: *See*—
Karlsson, Per J.; and Sundstrom, Nils E., 4,649,774, Cl. 74-751.000.

Norberg, Helmer L., to Dendro Maskin DM AB. Method and device for placing edge protecting means at pressure-sensitive edges on objects. 4,700,530, 10-20-87, Cl. 53-410.000.

Norco Industries Limited: *See*—
Twengsberg, Nils, 4,642,822, Cl. 4-488.000.

Norcast Inc.: *See*—
McKim, A. Meredith, 4,643,365, Cl. 241-101.200.

Norchem, Inc.: *See*—
Shida, Mitsuzo; Machonis, John, Jr.; and Zeitlin, Robert J., 4,675,471, Cl. 174-36.000.

Norcia, John A.; Bickar, Ray; and Wheatley, William M., to Ram Automotive Company. Portable system for filling bottles with nitrous oxide. 4,640,323, 2-3-87, Cl. 141-18.000.

Norcia, John A.; Wheatley, William M.; and Norcia, Michael D., to Ram Automotive Company. Nitrous oxide fuel injection safety system. 4,683,843, 8-4-87, Cl. 123-1.00A.

Norcia, Michael D.: *See*—
Norcia, John A.; Wheatley, William M.; and Norcia, Michael D., 4,683,843, Cl. 123-1.00A.

Norcim Investments Pty. Ltd.: *See*—
Griffin, Arnold F.; and Hinchliffe, Warren D., 4,681,628, Cl. 75-118.00R.

Norcliff Thayer Inc.: *See*—
Cuca, Robert C., 4,656,028, Cl. 424-37.000.

Norco Inc.: *See*—
Metz, Joseph R., 4,692,075, Cl. 411-7.000.

Norcros Investments Limited: *See*—
Pilsbrough, Frank, 4,666,185, Cl. 283-80.000.

Norcross, Kenneth L., III: *See*—
Callitharp, Glen R.; Norcross, Kenneth L., III; and Nelson, Dennis L., 4,645,592, Cl. 210-142.000.
Callitharp, Glen R.; Norcross, Kenneth L., III; and Nelson, Dennis L., 4,648,967, Cl. 210-136.000.
Callitharp, Glen R.; Norcross, Kenneth L., III; and Nelson, Dennis L., 4,711,716, Cl. 210-136.000.

Nord, Bert, to Ingenjorsfirma B Nord AB. Method for presentation of information of a plurality of sheetshaped information carriers and a device for the accomplishment of the method. 4,715,705, 12-29-87, Cl. 353-120.000.

Nord-Plan Stalreoler A/S: *See*—
Larsen, Anders, 4,691,493, Cl. 52-588.000.

Nord, Runo. Arrangement in removable liquid containers and a method of removing same. 4,676,281, 6-30-87, Cl. 141-1.000.

Nord, Russell H.: *See*—
Payne, Randall K.; and Nord, Russell H., 4,634,970, Cl. 324-121.00R.

Nordam: *See*—
Downey, Donald R.; and Witten, Donald W., 4,655,012, Cl. 52-79.800.

Nordan, Lee T. Epikeratophakia process. 4,662,881, 5-5-87, Cl. 623-5.000.

Nordberg, Anthony, to GQ Defence Equipment Limited. Target image presentation system. 4,702,699, 10-27-87, Cl. 434-20.000.

Nordberg, Mats P.: *See*—
Ankner, Kjell F.; Brandstrom, Arne E.; Lindberg, Per I.; Nordberg, Mats P. and Wallmark, Bjorn M. G., 4,689,331, Cl. 514-338.000.

Nordbrock, Raymond E.: *See*—
Ocken, Alfred G.; and Nordbrock, Raymond E., 4,710,657, Cl. 310-62.000.

Norddeutsche Affinerie AG: *See*—
Bartsch, Adalbert; and Berndt, Gerhard, 4,647,358, Cl. 204-286.000.

Norddeutsche Affinerie Aktiengesellschaft: *See*—
Bartsch, Adalbert; Gospos, Georg; Kersten, Lars; and Bartsch, Arno W., 4,665,842, Cl. 110-244.000.
Bartsch, Adalbert; von Sawitski, Joachim; and Michalek, Bernd, 4,670,124, Cl. 204-281.000.

Nordeen, Charles K.: *See*—
Hoyne, Earl K.; Nordeen, Charles K.; and Young, James D., 4,646,112, Cl. 346-153.100.
Lunde, George G.; Hoyne, Earl K.; and Nordeen, Charles K., 4,649,402, Cl. 346-153.100.

Norden, Alexander R. Photocontrol receptacles. 4,653,834, 3-31-87, Cl. 339-125.00R.

Norden, Alexander R. Terminal block with circuit marker. 4,714,434, 12-22-87, Cl. 439-488.000.

Norden Laboratories, Inc.: *See*—
Bass, Edmund P.; and Sharpee, Richard L., 4,711,778, Cl. 424-89.000.
Gerber, Jay D., 4,675,176, Cl. 424-85.000.

Nordfang, Ole: *See*—
Rasmussen, Mirella E.; and Nordfang, Ole, 4,650,858, Cl. 530-383.000.

Nordgren, Gregory N.; and Cameron, Warde M., Jr., to Warner-Lambert Company. Coupling assembly for use in fluid flow systems. 4,676,530, 6-30-87, Cl. 285-93.000.

Nordh, Lennart G.: *See*—
Willman, Nils-Erik; Sjogren, Bengt C. H.; Nordh, Lennart G.; Persson, Gustav L.; and Sjoholm, Goran H., 4,645,758, Cl. 514-239.000.

Nordhall, Lennart: *See*—
Hassellof, Ake; Lenasson, Carl-Gustaf; and Nordhall, Lennart, 4,638,540, Cl. 29-168.000.

Nordica S.p.A.: *See*—
Baggio, Giorgio; and Balbinot, Renzo, 4,694,592, Cl. 36-117.000.
Baggio, Giorgio, 4,712,316, Cl. 36-119.000.
Balbinot, Renzo, 4,697,359, Cl. 36-2.600.
De Matthеis, Filippo, 4,653,203, Cl. 36-117.000.
Pozzebon, Adolfo, 4,662,089, Cl. 36-119.000.
Pozzobon, Alessandro, 4,669,201, Cl. 36-117.000.
Pozzobon, Alessandro; and Baggio, Giorgio, 4,680,878, Cl. 36-117.000.
Pozzobon, Alessandro, 4,700,496, Cl. 36-117.000.
Pozzobon, Alessandro, 4,715,132, Cl. 36-117.000.
Sartor, Mariano; Baggio, Giorgio; and Baratto, Mirko, 4,667,424, Cl. 36-120.000.
Sartor, Mariano, 4,669,203, Cl. 36-120.000.
Sartor, Mariano, 4,698,922, Cl. 36-119.000.

Nordin, Inge, to Pede AB. Stringtape roll for Venetian blinds. 4,637,105, 1-20-87, Cl. 29-24.500.

Nordin, Jan: *See*—
Palcic, Branko; Jaggi, Bruno; and Nordin, Jan, 4,700,298, Cl. 364-414.000.

Nordin, Lee. Crusher gap setting. 4,712,743, 12-15-87, Cl. 241-30.000.

Nordin, Olof, to Forsheda AB. Sealing ring with portioned locking element. 4,666,165, 5-19-87, Cl. 277-207.00A.

Nordischer Maschinenbau Rud. Baader GmbH & Co. KG: *See*—
Bartels, Alfred, 4,649,603, Cl. 17-54.000.
Bartels, Alfred, 4,688,297, Cl. 17-46.000.
Braeger, Horst; and Johannesson, Orn, 4,635,318, Cl. 17-63.000.
Hartmann, Franz; and Matern, Klaus, 4,706,336, Cl. 17-55.000.

Nordisk Gentofte: *See*—
Kuo, George; Masiarz, Frank R.; Truett, Martha; Valenzuela, Pablo; Rasmussen, Mirella E.; and Favaloro, Jennifer, 4,716,117, Cl. 435-240.270.

Nordisk Gentofte A/S: *See*—
Rasmussen, Mirella E.; and Nordfang, Ole, 4,650,858, Cl. 530-383.000.

Nordiskafilt AB: *See*—
Osterberg, Lars B., 4,652,736, Cl. 250-571.000.

Nordlof, Richard D. Stock feed apparatus. 4,669,645, 6-2-87, Cl. 226-134.000.
Nordlof, Richard D. Stock advancing apparatus with control arm damping. 4,700,907, 10-20-87, Cl. 242-75.500.
Nordlund, Lester H., to Boeing Company, The. Optomechanical control apparatus. 4,716,399, 12-29-87, Cl. 340-365.00P.
Nordlund, Tore H., and Ljungkvist, Lars E., to Purac Aktiebolag. Method for producing a compostable mixture of sludge from sewage purification plants. 4,659,472, 4-21-87, Cl. 210-609.000.
Nordlund, Tore H., to Purac Aktiebolag. Arrangement for preparing a charge of compostible material for a composting plant. 4,710,032, 12-1-87, Cl. 366-156.000.
Nordman, Eric S.: *See*—
Bridgham, John; Geiser, Timothy G.; Hunkapiller, Michael W.; Kent, Stephen B. H.; Marriott, Mark P.; Ramstad, Paul O.; and Nordman, Eric S., 4,668,476, Cl. 422-62.000.
Nordmeyer, Friedrich; Schunk, Eckard; Winter, Frank; and Jackson, Clive L., to Mannesmann Aktiengesellschaft. Crucible furnace with adjustable electrodes. 4,646,318, 2-24-87, Cl. 373-105.000.
Nordquist, Andrew F.: *See*—
Dyer, Paul N.; Nordquist, Andrew F.; and Pierantozzi, Ronald, 4,652,587, Cl. 518-717.000.
Nordquist, Andrew L.: *See*—
Ferguson, Patrick E.; and Nordquist, Andrew L., 4,688,009, Cl. 333-252.000.
Nordqvist, Glenn O.; and Svenson, Lars-Gote, to Telefonaktiebolaget LM Ericsson. Apparatus for increasing the dynamic range in an integrating optoelectric receiver. 4,642,453, 2-10-87, Cl. 250-214.00A.
Nordqvist, Percy, deceased: *See*—
Agren, Magnus; and Nordqvist, Percy, deceased, 4,685,907, Cl. 604-304.000.
Nordqvist, Ulla, Per Nordquist, Patrik Nordqvist, heirs: *See*—
Agren, Magnus; and Nordqvist, Percy, deceased, 4,685,907, Cl. 604-304.000.
Nordsiek, Karl-Heinz; Wolpers, Jurgen; and Tornau, Johannes, to Huls Aktiengesellschaft. Hot-vulcanizable tread strips for the manufacture of motor vehicle pneumatic tire treads, and block copolymers which can be used as the sole constituent of the rubber component which is the basic formulation component of said tread strips. 4,673,709, 6-16-87, Cl. 525-99.000.
Nordskog, Robert A. Lightweight aircraft furniture caster assembly having a notched braking plate engaged by a brake. 4,679,662, 7-14-87, Cl. 188-1.120.
Nordson Corporation: *See*—
Baker, Robert G., 4,644,134, Cl. 219-301.000.
Boccagno, George E.; Raterman, John M.; Hadzimihalis, Theo M.; and Scholl, Charles H., 4,666,066, Cl. 222-146.500.
Boger, Bentley J.; and Petrecca, Peter J., 4,687,137, Cl. 239-124.000.
Conrad, Douglas J.; Kennon, James L.; Macartney, Lawrence J.; and Scharf, Donald R., 4,635,585, Cl. 118-316.000.
Gabriel, Alexander, 4,638,951, Cl. 239-707.000.
Gabryszewski, Gregory J., 4,661,688, Cl. 219-421.000.
Gimben, Dale N., 4,645,151, Cl. 248-52.000.
Hartle, Ronald J.; and Hall, Robert C., 4,640,310, Cl. 137-883.000.
Hollstein, Thomas E.; O'Ryan, David E.; and Waryn, Joseph C., 4,634,058, Cl. 239-697.000.
Jameson, Calvin R.; and Ramazzotti, Dario J., 4,679,710, Cl. 222-190.000.
Kolibas, James A., 4,657,047, Cl. 137-881.000.
Kolibas, James A., 4,663,195, Cl. 427-230.000.
Locke, Philip F., Jr.; and Ignatius, Mark J., 4,716,519, Cl. 364-186.000.
Locke, Philip F., Jr.; and Ignatius, Mark J., 4,716,520, Cl. 364-186.000.
Merkel, Stephen L., 4,668,948, Cl. 340-825.300.
Mulder, Douglas C., 4,662,309, Cl. 118-312.000.
Mulder, Douglas C., 4,710,286, Cl. 209-250.000.
Mulder, Douglas C., 4,715,535, Cl. 239-1.000.
Muller, Peter E., 4,667,879, Cl. 239-133.000.
Pedigrew, Colin, 4,675,209, Cl. 427-194.000.
Price, Richard P., 4,711,379, Cl. 222-504.000.
Reighard, Alan B.; and Scutar, Larry, 4,682,711, Cl. 222-75.000.
Rubinstein, Mordecai, 4,704,985, Cl. 118-316.000.
Scarbrough, Don R., 4,675,203, Cl. 427-27.000.
Scholl, Charles H.; Hadzimihalis, Theo M.; and Hoover, Scott C., 4,667,850, Cl. 222-23.000.
Stiches, Charles K., 4,639,611, Cl. 307-117.000.
Trevathan, Larry C., 4,679,711, Cl. 222-330.000.
Turner, Herman E., Jr.; and Glowacki, Robert D., 4,682,710, Cl. 222-63.000.
Watts, Ridley, Jr., 4,656,816, Cl. 53-511.000.
Wilson, Scott T., 4,704,953, Cl. 98-115.200.
Nordspace Aktiebolag: *See*—
Oleson, Lykke, 4,675,732, Cl. 358-349.000.
Nordstrom, Duane M., to Longview Fibre Company. Paperboard container for liquids including means to prevent fitment rotation. 4,666,059, 5-19-87, Cl. 220-465.000.
Nordstrom, Eric W.; Bielik, Paul G.; and Carlson, Michael E., to Bell & Howell Company. Film developing system for microimage recording apparatus. 4,653,890, 3-31-87, Cl. 354-299.000.
Nordstrom, Erik G. W., to Uponor AB. Method and apparatus for continuously extruding single-wall pipe of plastics or other mouldable material. 4,710,337, 12-1-87, Cl. 264-508.000.
Nordstrom, Lennart, to Saab-Scania Aktiebolag. Control device. 4,688,444, 8-25-87, Cl. 74-471.00R.
Nordstrom, Mark B.: *See*—
Mobley, Lawrence R.; Nordstrom, Mark B.; and Winter, Roger I. 4,713,860, Cl. 16-111.00R.
Nordtend A/S: *See*—
Hansen, Helge; Nystrom, Borje; and Torneng, Eyvin, 4,657,759, 424-83.000.
Hansen, Helge; Nystrom, Borje; and Torneng, Eyvin, 4,668,455, 264-143.000.
Nordyne, Inc.: *See*—
Reifel, Allan J., 4,709,753, Cl. 165-125.000.
Reifel, Allan J.; and Roth, James E., 4,710,610, Cl. 219-363.000.
Roth, James E.; and Bales, David W., 4,709,623, Cl. 98-40.050.
Noreikat, Karl-Ernst: *See*—
Hafner, Gunther; Noreikat, Karl-Ernst; Schmidt, Hans-Dieter; Letsche, Ulrich; and Bauer, Bernhard, 4,655,254, Cl. 137-625.65.
Norell, Mario G.; and Wanngard, Johan C., to KemaNord AB. Process for preparing chlorine dioxide. 4,678,653, 7-7-87, Cl. 423-478.000.
Norell, Maria G.: *See*—
Holmstrom, Ulla-Kari M.; Sandgren, Lage M.; Norell, Maria G. and Axegard, Peter A., 4,678,654, Cl. 423-478.000.
Norell, Ronald A., to Burroughs Corporation. Elastic bladder method of fabricating an integrated circuit package having bonding pads in stepped cavity. 4,636,275, 1-13-87, Cl. 156-289.000.
Norell, Ronald A.: *See*—
McNeal, Norman E.; Nagy, Richard A.; and Norell, Ronald A., 4,643,935, Cl. 428-157.000.
Noren, Don W. Heat pipe assembly. 4,638,854, 1-27-87, Cl. 165-76.00.
Noren, Don W. Heat exchanger. 4,706,739, 11-17-87, Cl. 165-104.14.
Noren, Donald W.: *See*—
Van Erden, Donald; and Noren, Donald W., 4,666,536, Cl. 156-64.000.
Noren, Gerry K.: *See*—
Zimmerman, John M.; Noren, Gerry K.; and Bishop, Timothy E., 4,690,501, Cl. 350-96.290.
Noren, John P., to Stabilator AB. Method and device for percussive earth drilling. 4,699,223, 10-13-87, Cl. 175-40.000.
Noren, Tore H., to Stero Company, The. Motor driven endless track accumulator. 4,676,365, 6-30-87, Cl. 198-803.140.
Noren, Tore H., to Stero Company, The. Tray accumulator for soiled ware conveyor. 4,697,711, 10-6-87, Cl. 211-182.000.
Norenberg, Hagen: *See*—
Herwig, Jens; Norenberg, Hagen; Bergmann, Friedhelm; Stiller, Manfred; Schlemmermeyer, Horst; Schmidt, Wilfried; Straub, Hilmar; and Wolter, Helmut, 4,712,434, Cl. 73-864.630.
Norfab, Inc.: *See*—
Discher, Vernon L.; Holen, Larry K.; and Mehl, Donald S., 4,665,652, Cl. 49-460.000.
Norfleet, James: *See*—
Barth, Jordan; and Norfleet, James, 4,663,152, Cl. 424-49.000.
Clipper, Donald; and Norfleet, James, 4,684,517, Cl. 424-52.000.
Norfolk, Michael P., to Santrade Limited. Conveyor system. 4,633,9 1-6-87, Cl. 198-465.300.
Norgren, Kent S.; and Vogelsberg, Robert E., to International Busin Machines Corporation. Access control to a shared resource in asynchronous system. 4,660,169, 4-21-87, Cl. 364-900.000.
Norigoe, Masamitsu: *See*—
Kakuda, Yoshiaki; Wakahara, Yasushi; and Norigoe, Masamitsu 4,694,422, Cl. 364-900.000.
Norihiro, Umezawa. Joint structure for channels. 4,661,008, 4-28-87, 403-294.000.
Norikane, Kiyoshi: *See*—
Kapland, Mitchell A.; Norikane, Kiyoshi; and London, Jack W. 4,641,449, Cl. 42-65.000.
Norimatsu, Kohji: *See*—
Funahashi, Masuya; Miyata, Teruhisa; Inoue, Kenichi; Miyaji, Akira; and Norimatsu, Kohji, 4,690,864, Cl. 428-336.000.
Norin, Edward M.: *See*—
Hathaway, Robert E.; and Norin, Edward M., 4,650,130, 241-101.400.
Norischer Maschinenbau Rud. Baader GmbH & Co.: *See*—
Braeger, Horst, 4,649,604, Cl. 17-62.000.
Norisuye, Katuhiro: *See*—
Washio, Katsuyoshi; Hayoshi, Makoto; Watanabe, Tomoyuki; Okabe, Takahiro; and Norisuye, Katuhiro, 4,694,321, 357-48.000.
Norita, Toshio: *See*—
Ishida, Tokuji; and Norita, Toshio, 4,660,955, Cl. 354-408.000.
Tamiguchi, Nobuyuki; Ishida, Tokuji; Hamada, Masataka; Kara Toshihiko; and Norita, Toshio, 4,716,434, Cl. 354-408.000.
Noritake Co., Limited: *See*—
Minowa, Toshio; Hashimoto, Tetsuro; Kuroda, Kohji; and Na yama, Kazutaka, 4,697,885, Cl. 350-334.000.
Noritake, Yutaka: *See*—
Ohno, Hiromitsu; Noritake, Yutaka; Owari, Kimmasa; Fukuda, Masuo, 4,656,830, Cl. 60-276.000.
Noritsu Kenkyu Center Co., Ltd.: *See*—
Fujita, Nobuya, 4,666,279, Cl. 354-320.000.
Murakami, Motoaki, 4,655,575, Cl. 354-322.000.
Nishimoto, Kanichi, 4,712,899, Cl. 354-316.000.
Norkus, Hans: *See*—
Hilterhaus, Karl-Heinz; and Norkus, Hans, 4,669,919, 405-264.000.
Norlac Plastiques: *See*—
Gilbert, Alain; and Gilbert, Jacques, 4,674,154, Cl. 17-75.000.

Norland Corporation. *See*—
Payne, Randall K.; and Nord, Russell H., 4,634,970, Cl. 324-121.00R.

Norling, Brian L., to Sundstrand Data Control, Inc. Accelerometer coil mounting system. 4,697,455, 10-6-87, Cl. 73-497.000.

Norling, Rayburn E. *See*—
Hasinga, Richard D.; and Norling, Rayburn E., 4,683,811, Cl. 86-42.200.

Norling, Samuel A. *See*—
Detter, Gary C.; Norling, Samuel A.; Penney, Janet S.; and Tolnar, Emil J., Jr., 4,634,204, Cl. 339-91.00R.

Nornag Corporation. *See*—
Fox, Steve A., 4,642,040, Cl. 425-204.000.

Normalair-Garrett (Holdings) Limited. *See*—
Hamlin, Humphrey A. S.; and Marsh, Roger M., 4,661,124, Cl. 55-21.000.
Searle, Robin H. J., 4,714,411, Cl. 417-246.000.
Stevenson, George F., 4,687,013, Cl. 137-7.000.

Norman, Alan B.; and Creamer, Glenn E., to R. J. Reynolds Tobacco Company. Adjustable air dilution cigarette exhibiting controlled pressure drop. 4,649,941, 3-17-87, Cl. 131-336.000.

Norman, Alan B.; and Creamer, Glenn E., to R. J. Reynolds Tobacco Company. Adjustable air dilution cigarette exhibiting controlled pressure drop. 4,649,945, 3-17-87, Cl. 131-336.000.

Norman, Alan B., to R. J. Reynolds Tobacco Company. Cigarette filter having low visible staining. 4,693,265, 9-15-87, Cl. 131-340.000.

Norman, Dan A.; and Frazier, Stanley J., to GeoEnergy International, Corp. Apparatus and method for treating the emission products of a wood burning stove. 4,675,029, 6-23-87, Cl. 55-11.000.

Norman, George R., to Lauren Manufacturing Company. Annular boot for steel reinforced concrete structures. 4,699,703, 10-13-87, Cl. 204-196.000.

Norman, Jacob J. *See*—
Hardwick, Martha K.; Pike, Kelly A.; Evans, George D., II; Edwards, Ronald; and Norman, Jacob J., 4,648,865, Cl. 604-32.000.

Norman, James W., III, to Digital Services Corporation. Moving video special effects system. 4,647,971, 3-3-87, Cl. 358-160.000.

Norman, John H. *See*—
McQuillan, Barry W.; and Norman, John H., 4,663,144, Cl. 423-148.00R.

Norman, Leslie D. *See*—
Morris, Thomas A.; and Norman, Leslie D., 4,643,211, Cl. 135-67.000.

Norman, Michael J. *See*—
Ching, Neng H.; Marwin, Ralph G.; Norman, Michael J.; and Hughes, John L., 4,681,436, Cl. 356-121.000.

Norman, Peter. *See*—
Abram, Trevor S.; Norman, Peter; and Warren, Brian T., 4,639,535, Cl. 549-419.000.

Normat, Philip J., to Combustion Engineering, Inc. Clamp for hermetic cable connector. 4,676,573, 6-30-87, Cl. 439-318.000.

Norman, Seth I. and O'Brien, Kathleen F., to Dow Chemical Company, The. Process of removing acids from juice. 4,666,721, 5-19-87, Cl. 426-271.000.

Norman Wade Company Ltd. *See*—
Morand, Michel J. E. D., 4,700,017, Cl. 174-86.000.

Normann, Norbert, to Doduco KG Dr. Eugen Durrwachter. Reading head for the magnetic scanning of elongate bistable magnetic elements. 4,635,227, 1-6-87, Cl. 365-133.000.

Normann, Norbert, to Doduco KG Dr. Eugen Durrwachter. Magnetic field sensor comprising Wiegand wires or similar bistable magnetic elements. 4,639,670, 1-27-87, Cl. 324-260.000.

Normant, Jean F. *See*—
Fugier, Claude; Leroux, Michel; Normant, Jean F.; and Alexakis, Alexandre, 4,652,692, Cl. 585-600.000.

Norment Industries, Inc.. *See*—
Quante, Jeffrey B., III; Scoggin, Steven C.; Maxwell, Dennis L.; Rosenkoetter, Marvin W.; and Ferencik, James J., 4,709,659, Cl. 109-21.500.

Noro, Masahiko. *See*—
Shimozato, Yasuyuki; Tsuchikawa, Syuji; Kimura, Shunichi; and Noro, Masahiko, 4,659,790, Cl. 526-87.000.

Noro, Masataka. *See*—
Yazaki, Takao; Noro, Masataka; and Matsui, Takashi, 4,713,282, Cl. 428-216.000.

Noro, Osamu. *See*—
Doi, Yoshiki; Inabe, Mitsuo; and Noro, Osamu, 4,683,723, Cl. 62-6.000.

Noro, Shingo; Sattou, Kunio; and Izumimoto, Hideki, to Mitsubishi Jukogyo Kabushiki Kaisha; and Yamashita Iron Works, Ltd. Sterilization processing system for can-sealed products. 4,661,325, 4-28-87, Cl. 422-304.000.

Noro, Takanobu; Koakutsu, Yasumasa; Takeuchi, Tamio; Yano, Masao; Ouda, Seiichi; Arima, Hideo; Yokono, Hitoshi; and Tanei, Hirayoshi, to Hitachi, Ltd. Optical switch. 4,715,673, 12-29-87, Cl. 350-96.200.

Noro, Takanobu. *See*—
Kaneyasu, Masayoshi; Arima, Hideo; Ito, Mitsuko; Iwanaga, Shoichi; Sato, Nobuo; Noro, Takanobu; Ikagami, Akira; and Isogai, Tokio, 4,638,443, Cl. 364-497.000.

NORPAC Engineering, Inc.. *See*—
Rybka, John J.; and Pegnam, Robert C., 4,676,339, Cl. 182-2.000.

Norgren, Bo; and Bjelk, Nils, to Besam AB. Device for detecting objects, particularly such in motion. 4,713,545, 12-15-87, Cl. 250-338.000.

Norris, Alan J., to Imperial Chemical Industries PIC. High voltage control. 4,710,849, 12-1-87, Cl. 361-228.000.

Norris, Andrew P. *See*—
Waddoup, William D.; and Norris, Andrew P., 4,672,387, Cl. 343-781.00P.

Norris, Brian, to Rohr Industries, Inc. Method of brazing columbium to itself using low bonding pressures and temperatures. 4,705,207, 11-10-87, Cl. 228-194.000.

Norris, Brian, to Rohr Industries, Inc. Method of bonding columbium to nickel and nickel based alloys using low bonding pressures and temperatures. 4,706,872, 11-17-87, Cl. 228-195.000.

Norris, Brian, to Rohr Industries, Inc. Method of bonding columbium to titanium and titanium based alloys using low bonding pressures and temperatures. 4,715,525, 12-29-87, Cl. 228-194.000.

Norris, Daniel A.; Lowery, James O.; and Armstrong, Robert F., to Southwire Company. Longitudinally wrapped cable. 4,644,098, 2-17-87, Cl. 174-115.000.

Norris, Donald J. *See*—
Glivicky, Alexandr P.; and Norris, Donald J., 4,675,463, Cl. 585-514.000.

Norris, Gary E. *See*—
Wensel, Neil D.; Norris, Gary E.; and Beierwaltes, Craig G., 4,698,767, Cl. 364-471.000.

Norris, George B. *See*—
Das, Mukunda B.; Norris, George B.; and Grzyb, Joseph A., 4,652,856, Cl. 357-22.000.

Norris, James E. Mail-call signal device. 4,708,286, 11-24-87, Cl. 232-35.000.

Norris, Janice O. *See*—
Sondergeld, Carl H.; Ernullo, Albert L.; and Norris, Janice O., 4,692,910, Cl. 367-75.000.

Norris, Jerry D. Clutch for a quill feed mechanism. 4,652,249, 3-24-87, Cl. 464-44.000.

Norris, Michael C. *See*—
Evans, Joseph T., Jr.; Munechika, Stacy M.; Norris, Michael C.; Hren, Alisa M.; Heck, Kevin M.; and Zulka, Suzanne M., 4,654,586, Cl. 324-83.00D.

Norris, Patrick M. Sheet material dispenser. 4,645,107, 2-24-87, Cl. 225-37.000.

Norris, Paul K., and Oliver, Perry S., to West Point Pepperell, Inc.; and Oliver & Company, Inc. System for controlling absolute humidity in a work area. 4,662,560, 5-5-87, Cl. 236-44.00B.

Norris, Philip R., and Ware, William B., to Polaroid Corporation. Electronic imaging copier. 4,656,524, 4-7-87, Cl. 358-280.000.

Norris, Philip R., to Polaroid Corporation. Electronic imaging copier. 4,656,525, 4-7-87, Cl. 358-280.000.

Norris, Richard G.; Webb, Monty F.; and Le, Vinh Q., to Tecnor Electronics, Inc. Electronic trigger switch for maintenance termination unit. 4,655,120, 8-4-87, Cl. 379-26.000.

Norris, Richard M. and Diehl, Bert A., Jr., to Avco Corporation. Modular multi-channel particle separator. 4,704,145, 11-3-87, Cl. 55-306.000.

Norris, Robert W. Universal battery terminal connector. 4,636,025, 1-13-87, Cl. 339-230.00R.

Norris, Russell, to Procter & Gamble Company, The. Fabric conditioning articles for use in laundry dryers. 4,663,198, 5-5-87, Cl. 427-264.000.

Norris, Terreace W. Hand trolley. 4,650,197, 3-17-87, Cl. 280-5.240.

Norris, Wilfred. *See*—
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Norsel Textilmaschinen AG. *See*—
Sjoberg, Per, 4,652,481, Cl. 428-67.000.

Norsk Hydro A.S.. *See*—
Clausen, Edvin L., 4,663,812, Cl. 29-157.400.
Clausen, Edvin L., 4,694,898, Cl. 165-171.000.
Kjohl, Olav; Obrestad, Torstein; and Groland, Hans, 4,713,108, Cl. 71-32.000.
Sveen, Dagfinn, 4,669,917, Cl. 405-227.000.

Norskau, Jurgen; and Richter, Rudolf, to Linde Aktiengesellschaft. Power control devices for hydrostatic pumps. 4,639,195, 1-27-87, Cl. 417-216.000.

Norsworthy, Keith H., to Boeing Company, The. Low complexity digital processor for MX security radar. 4,651,153, 3-17-87, Cl. 342-110.000.

Nortek Corporation. *See*—
Suprono, Paul W., 4,701,000, Cl. 439-423.000.

Nortene. *See*—
Pavy, Michel; and Genty, Alain, 4,636,162, Cl. 425-290.000.

Nortey, Narkn O., to Farrel Corporation. Two-wing non-intermeshing rotors of increased performance for use in internal batch mixing machines. 4,714,350, 12-22-87, Cl. 366-84.000.

North American Agricultural, Inc.. *See*—
Carroll, Michael W.; and Harwood, Michael E., 4,692,980, Cl. 29-243.520.

North American Carbon, Inc.. *See*—
Perrich, Jerry R., [illegible] 0,153, Cl. 210-661.000.

North American Controller Corp.. *See*—
Grigsby, John M., 4,635,815, Cl. 220-443.000.

North American Philips Consumer Electronics Corp.. *See*—
Bradley, Ralph H., Jr., 4,701,020, Cl. 350-128.000.
Collins, Floyd K.; and Say, Donald L., 4,645,469, Cl. 445-49.000.
Collins, Floyd K.; and Hassler, George E., 4,680,501, Cl. 313-456.000.
Daldry, Kenneth J.; Fischman, Martin; and Rehkopf, Charles H., 4,682,963, Cl. 445-5.000.
Gallaro, Anthony V., 4,681,775, Cl. 427-64.000.

Hermann, Kenneth W., 4,668,993, Cl. 358-248.000.
Josephs, Mark A., 4,713,578, Cl. 313-481.000.
Naimpally, Saiprasad V., 4,665,439, Cl. 358-183.000.
Naimpally, Saiprasad V., 4,682,234, Cl. 358-183.000.
Say, Donald L., 4,642,515, Cl. 313-414.000.
Say, Donald L., 4,656,391, Cl. 313-414.000.
Speigel, Kenneth, 4,647,519, Cl. 430-25.000.
Zoladz, Frank J., 4,709,828, Cl. 220-76.000.

North American Philips Corporation: *See*—
Barnes, Casper W., 4,676,250, Cl. 128-660.000.
Boser, Otmar H., 4,644,259, Cl. 324-51.000.
Bronnes, Robert L.; Sweet, Richard C.; and McKinlay, James K., 4,643,347, Cl. 228-208.000.
Campbell, Donnie R., 4,688,741, Cl. 242-128.000.
Carleton, Samuel A.; and King, Norman R., 4,712,040, Cl. 313-331.000.
Cinalli, James A., 4,701,667, Cl. 313-594.000.
de Leeuw, Dagobert M.; and Khurgin, Jacob, 4,661,704, Cl. 250-327.200.
Fassler, Friedbert; Kigyos, Frank; and Slaughter, Bobby L., 4,635,313, Cl. 15-193.000.
Fitzpatrick, Brian J., 4,692,359, Cl. 427-45.100.
Fitzpatrick, Brian J., 4,701,019, Cl. 350-127.000.
France, Howard G., 4,715,476, Cl. 185-40.00R.
Gunter, Charles E., 4,660,127, Cl. 361-433.000.
Herman, Stephen, 4,653,328, Cl. 73-602.000.
Hirayama, Chikara; and Andrew, Kenneth F., 4,639,639, Cl. 313-639.000.
Johnson, Carl W., 4,657,137, Cl. 206-329.000.
Karr, Dennis K., 4,660,016, Cl. 337-372.000.
Keefe, Richard A., 4,667,086, Cl. 219-532.000.
King, Norman R., 4,689,518, Cl. 313-1.000.
Macdonald, Wallace T.; and Latassa, Frank M., 4,645,283, Cl. 339-50.00R.
Madsen, Elmer W.; and Wang, Ping-Shih, 4,672,247, Cl. 310-49.00R.
Madsen, Elmer W., 4,712,154, Cl. 361-178.000.
Maresca, Robert L., 4,652,820, Cl. 324-207.000.
Maresca, Robert L., 4,698,576, Cl. 318-687.000.
Marshall, Thomas; and Stupp, Edward H., 4,648,956, Cl. 204-299.0EC.
Mayo, William T., 4,683,893, Cl. 128-660.000.
Mayo, William T., Jr., 4,690,150, Cl. 128-660.000.
Mayo, William T., Jr., 4,697,594, Cl. 128-653.000.
McKechnie, Thomas S., 4,672,458, Cl. 358-237.000.
McKechnie, Thomas S.; and Goldenberg, Jill F., 4,679,900, Cl. 350-126.000.
Miron, Amihai; and Koo, David, 4,665,438, Cl. 358-183.000.
Morelli, Amedeo J.; and Gaylord, Francis L., 4,694,568, Cl. 29-620.000.
Nadan, Joseph S., 4,670,783, Cl. 358-141.000.
Newman, Wyatt S., 4,712,778, Cl. 267-170.000.
Paolini, Francis R., 4,644,578, Cl. 378-146.000.
Pryst, Theodore S.; and Kirschner, John G., 4,672,358, Cl. 338-226.000.
Shaulov, Avner A., 4,671,293, Cl. 128-660.000.
Shone, Michael F.; and Loiacono, Gabriel M., 4,679,198, Cl. 372-41.000.
Singer, Barry M.; and Jayaraman, Rajsekhar, 4,639,761, Cl. 357-234.000.
Sorrow, Billy B., 4,678,890, Cl. 219-121.00L.
Strange, Thomas F.; and Carino, John W., 4,639,827, Cl. 361-272.000.
Strange, Thomas F.; and Carino, John W., 4,639,828, Cl. 361-272.000.
Strange, Thomas F.; and Carino, John W., 4,661,876, Cl. 361-15.000.
Stupp, Edward H.; and Fellows, Mark W., 4,698,554, Cl. 315-307.000.
Stupp, Edward H.; and Fellows, Mark W., 4,700,113, Cl. 315-224.000.
Stupp, Edward H.; Fellows, Mark W.; and Steneck, Walter G., 4,701,671, Cl. 315-224.000.
Stupp, Edward H., 4,712,124, Cl. 357-23.400.
Suppinger, Albert V.; and Tinley, Charles W., 4,706,382, Cl. 29-879.000.
't Hoen, Pieter, 4,640,291, Cl. 128-660.000.
't Hoen, Pieter, 4,670,683, Cl. 310-334.000.
Tsinberg, Mikhail, 4,694,338, Cl. 358-141.000.
Ustin, George; and Soltis, Andrew P., 4,659,169, Cl. 339-198.00R.
White, Roger P., 4,650,288, Cl. 350-362.000.
White, Roger P., 4,686,524, Cl. 340-787.000.
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North American Philips Electric Corporation: *See*—
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North American Philips Lighting Corp.: *See*—
Dunn, John P.; Collins, Kent L.; and King, Norman R., 4,708,679, Cl. 445-26.000.
Lagree, James L.; and Elms, Robert T., 4,701,673, Cl. 315-244.000.

North American Roofing Company, Inc.: *See*—
Verble, Patrick R., 4,658,558, Cl. 52-410.000.

North American Specialties Corp.: *See*—
Seidler, Jack, 4,669,535, Cl. 165-78.000.
Seidler, Jack; and Taylor, Robert N., 4,671,602, Cl. 439-857.000.
Seidler, Jack, 4,679,889, Cl. 439-876.000.
Seidler, Jack, 4,697,865, Cl. 439-861.000.
Seidler, Jack, 4,712,850, Cl. 439-861.000.

North, Arthur J.: *See*—
Liptak, Frank J., Jr.; and North, Arthur J., 4,686,514, Cl. 340-571.000.

North Atlantic Industries, Inc.: *See*—
Cohen, William D., 4,646,183, Cl. 360-106.000.

North-Bel S.p.A.: *See*—
Beltramini, Giorgio, 4,661,064, Cl. 433-166.000.

North, Bernard: *See*—
Yeckley, Russel L.; and North, Bernard, 4,711,644, Cl. 51-307.000.

North Carolina State University: *See*—
Ardalan, Sasan H.; and Alexander, Samuel T., 4,677,668, Cl. 379-411.000.
Chang, Hou-min; Joyce, Thomas W.; and Kirk, Thomas K., 4,655,926, Cl. 210-611.000.
Croom, Warren J., Jr.; and Hagler, Winston M., Jr., 4,647,567, Cl. 514-299.000.
Croom, Warren J., Jr.; and Hagler, Winston M., Jr., 4,652,571, Cl. 514-299.000.
Girgis, Adly A., 4,661,769, Cl. 324-78.00Z.
Gould, Fred L.; Pour, Diana C.; and Villani, Michael G., 4,676,985, Cl. 424-195.100.
Law, S. Edward; and Bowen, Henry D., 4,685,620, Cl. 239-3.000.

North China Petroleum Machinery Repairing Plant: *See*—
Bao, Zheng-Yi, 4,665,761, Cl. 74-41.000.

North China Research Institute of Electro-Optics: *See*—
Yu-Zhong, Liu, 4,678,546, Cl. 204-32.100.

North Coast Systems, Inc.: *See*—
Mills, Donald E.; and Grys, Rodger J., 4,676,914, Cl. 210-741.000.

North, Edwin R.: *See*—
Rulf, Donald C.; and North, Edwin R., 4,674,323, Cl. 73-61.10C.

North, Henry. Apparatus for producing a force. 4,712,439, 12-15-87, Cl. 74-84.00R.

North Houston Machine, Inc.: *See*—
Johnson, George P., Jr., 4,660,634, Cl. 166-77.500.

North, John P.: *See*—
Taylor, Alfred A.; and North, John P., 4,663,917, Cl. 53-552.000.

North, Larry J.: *See*—
North, Vaughn W.; and North, Larry J., 4,643,455, Cl. 283-81.000.

North, Lawrence A.: *See*—
McKernon, David A.; and North, Lawrence A., 4,706,512, Cl. 74-405.000.

North Shore University Hospital: *See*—
Morrison, John; Siskind, Eric J.; and Frost, Meryll M., Jr., 4,709,332, Cl. 364-414.000.

North States Industries, Inc.: *See*—
Larson, Donald A.; and Runyon, Peter M., 4,677,791, Cl. 49-463.000.
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North, Vaughn W.; and North, Larry J. Detachable bank card transaction recording device. 4,643,455, 2-17-87, Cl. 283-81.000.

North, Walter L., Jr.; and England, Barry M. Non-surgical embryo transfer device. 4,642,094, 2-10-87, Cl. 604-55.000.

Northeast Filter Co., Inc.: *See*—
Holdsworth, Timothy M., 4,701,726, Cl. 333-185.000.

Northeast Ohio Axle, Inc.: *See*—
Tribert, Claude, 4,646,509, Cl. 53-446.000.

Northeastern University: *See*—
Davies, Geoffrey; and El-Toukhy, Ahmed, 4,702,748, Cl. 44-56.000.
Giese, Roger W., 4,709,016, Cl. 530-389.000.
Neumeyer, John L.; and Baldessarini, Ross J., 4,687,773, Cl. 514-280.000.

Northern Engineering, Inc.: *See*—
Kittleson, Karl A., 4,679,024, Cl. 338-160.000.

Northern Engineering and Plastics Corp.: *See*—
Crisci, Robert E., 4,667,839, Cl. 215-256.000.
Crisci, Robert E., 4,687,114, Cl. 215-256.000.

Northern Illinois Gas Company: *See*—
Martell, Dennis J., 4,634,859, Cl. 250-231.0SE.

Northern Indiana Public Service Company: *See*—
Kramer, Robert A.; Rusk, Terrance P.; and Salmons, David W., 4,646,940, Cl. 222-1.000.

Northern Lights Trust of February 14, 1978: *See*—
Csongor, Desider G., 4,697,928, Cl. 366-80.000.

Northern Magnetics, Inc.: *See*—
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Northern Research & Engineering Corp.: *See*—
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Northern Technologies, Ltd.: *See*—
Dickie, Robert G.; and Hobbins, Martin E., 4,686,576, Cl. 358-245.000.
Hobbins, Martin E.; Dickie, Robert G.; and Pardo, Rene, 4,701,801, Cl. 353-245.000.

Northern Telecom Limited: *See*—
Abe, Koichi, 4,643,751, Cl. 65-3.120.
Abe, Koichi, 4,648,891, Cl. 65-3.120.
Akre, Collin A., 4,706,449, Cl. 57-6.000.
Aly, Sami A., 4,665,531, Cl. 375-17.000.
Aujla, Sharanjit S.; Debortoli, George; and Contardo, Remo, 4,682,835, Cl. 439-395.000.
Balston, Neil K.; Anderson, Keith D.; and Willemsen, Herman W., 4,672,600, Cl. 369-275.000.
Banerjee, Hari N., 4,634,039, Cl. 228-118.000.

Bannister, Cecil H.; Ramsden, Paul N.; and Latessa, Loretino M., 4,651,122, Cl. 338-126.000.
Barnhouse, Robert L.; Elo, James C.; Mattison, George F., Jr.; and Hart, Marshall, 4,660,272, Cl. 29-558.000.
Baxter, Gordon D.; and Axiuk, Oleg, 4,659,424, Cl. 156-51.000.
Baxter, Gordon D.; and Grant, James C., 4,708,837, Cl. 264-40.400.
Baxter, Gordon D.; Grant, James C.; and Garner, John N., 4,708,887, Cl. 427-118.000.
Berger, Jean P.; Pridgen, Evans H.; and Owens, Alfred W., 4,704,305, Cl. 427-96.000.
Beun, Roger A.; and Van Gaal, Adrianus P., 4,648,009, Cl. 361-399.000.
Beun, Roger A., 4,702,535, Cl. 312-308.000.
Bobey, Kenneth A., 4,637,015, Cl. 370-94.000.
Brody, George C.; Ma, Francis K.; Nissen, Robert C.; Taylor, Theodore; Patel, Raju; and Ziesman, Craig A., 4,670,899, Cl. 379-60.000.
Brown, Allan P.; and Charlebois, Leonard J., 4,648,606, Cl. 277-188.00R.
Burley, Gregory S., 4,698,817, Cl. 372-31.000.
Calder, Iain D.; Macelwee, Thomas W.; and Naem, Abdalla A., 4,680,609, Cl. 357-42.000.
Charlebois, Leonard J.; Scott, James R.; and D'Aoust, Ronald R., 4,654,474, Cl. 174-88.00R.
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Charlebois, Leonard J., 4,678,866, Cl. 174-88.00R.
Ciancibello, Carmine A.; and Mitchler, Dennis W., 4,637,016, Cl. 370-100.000.
Claxton, Richard D., 4,661,962, Cl. 372-50.000.
Collar, Geoffrey A.; Moss, John S.; Chu, Pak-Jong; McDonald, Paul D.; and Voss, Brian E., 4,647,729, Cl. 200-5.00A.
Cristescu, Alex G.; and Conea, Christopher A., 4,709,461, Cl. 29-566.300.
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DeBortoli, George; Contardo, Remo; and Aujla, Sharanjit S., 4,652,071, Cl. 339-99.00R.
DeVries, Paul A.; Smith, Brian R.; and Parker, Jay S., 4,675,865, Cl. 370-85.000.
Donaldson, Michael J.; Pue-Gilchrist, James D.; and Scott, James R., 4,708,430, Cl. 350-96.200.
Dunn, Robert B.; and Wiltshire, Bruce, 4,682,834, Cl. 439-267.000.
Ellis, John G.; Townsend, Bruce L.; and Strawczynski, Leo, 4,648,108, Cl. 379-202.000.
Este, Grantley O., 4,680,497, Cl. 310-313.00C.
Este, Grantley O.; Suthers, Mark S.; Streater, Richard W.; and MacLaurin, Blair K., 4,684,841, Cl. 310-313.00B.
Finn, Roger C.; and MacKenzie, Morley S., 4,678,272, Cl. 350-96.210.
Fiorito, Dermot T.; Paul, James E.; and Markovic, Milan, 4,642,583, Cl. 333-14.000.
Fiorito, Dermot T., 4,716,358, Cl. 323-316.000.
Garner, John N.; and Baxter, Gordon D., 4,668,173, Cl. 425-113.000.
Garner, John N., 4,710,114, Cl. 425-110.000.
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Gawargy, Mumtaz B., 4,647,843, Cl. 323-370.000.
Goodwin, John C., 4,679,908, Cl. 350-320.000.
Graves, Alan F., 4,667,324, Cl. 370-102.000.
Graves, Alan F.; and Littlewood, Paul A., 4,698,806, Cl. 370-100.000.
Grover, Wayne D., 4,674,088, Cl. 370-100.000.
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Gumb, Beverley W., 4,638,116, Cl. 174-68.500.
Heddenbrand, Stanley W., 4,674,120, Cl. 379-427.000.
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Ho, Vu Q.; Nentwich, Heinz J.; and Naquib, Hussein M., 4,680,854, Cl. 29-576.00B.
Hogeboom, John G.; Thomas, Terry N.; Yarak, Dennis A.; and Anderson, Arlan J., 4,650,930, Cl. 379-93.000.
Hogeboom, John G.; and Thomas, Terence N., 4,679,209, Cl. 375-17.000.
Howat, Robert J.; and Kirkwood, Kenneth R., 4,647,334, Cl. 156-461.000.
Hundrieser, Dieter H., 4,652,848, Cl. 337-297.000.
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Ivezda, Jaroslav M.; Velsher, Benne; and Middlehurst, Richard J., 4,700,998, Cl. 439-325.000.
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Jeppferschmidt, Albert; Greene, Tracy D.; and Jaycox, Donald F., 4,700,995, Cl. 439-276.000.
Johnstance, Conrad D.; and Fatovic, Peter, 4,697,283, Cl. 379-443.000.
Jorgenberg, Anthony J.; Chu, Pak-Jong; Moss, John S.; and Collar, Geoffrey A., 4,709,389, Cl. 379-424.000.
Kade, Thomas N.; Longo, Lorenzo L.; and Chan, Sun-Shiu D., 4,684,832, Cl. 307-520.000.
Kade, James S., 4,675,813, Cl. 364-200.000.
Kane, Richard S.; and Saravanos, Constantine, 4,636,071, Cl. 356-73.100.
Lucas, James A.; and Trumble, William P., 4,670,298, Cl. 427-96.000.
Lukas, Helmut H.; and Pacey, Grant K., 4,712,861, Cl. 350-96.210.
Lynch, David L., 4,634,960, Cl. 323-350.000.
MacElwee, Thomas W.; Calder, Iain D.; and White, James J., 4,651,408, Cl. 29-576.00J.
Maciejko, Roman; and Tremblay, Yves, 4,650,278, Cl. 350-96.200.
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Morin, J. O. R., 4,689,440, Cl. 174-19.000.
Munter, Ernst A., 4,698,809, Cl. 371-30.000.
Naguib, Hussein M.; Calder, Iain D.; Ho, Vu Q.; and Naem, Abdalla A., 4,683,645, Cl. 437-41.000.
Nelson, Paul G., 4,701,913, Cl. 370-110.100.
Neumann, Richard L., 4,652,123, Cl. 356-73.100.
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Peterson, Olav, 4,681,549, Cl. 439-181.000.
Pollard, Brian J., 4,703,500, Cl. 379-252.000.
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Retallack, Laurence J.; and Kuhfus, Gerd, 4,647,728, Cl. 200-5.00R.
Richardson, Bruce A., 4,701,646, Cl. 307-570.000.
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Rosenbaum, Stanley D.; and Plett, Calvin, 4,691,271, Cl. 363-60.000.
Rosenbaum, Stanley D.; and Plett, Calvin, 4,713,838, Cl. 379-252.000.
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So, Vincent C.; Hughes, Richard P.; Vella, Paul J.; and Lamont, Jason B., 4,708,476, Cl. 356-73.100.
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Svilans, Mikelis N., 4,675,877, Cl. 372-96.000.
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Walling, Jorg-Hein; Cornubert, Jacques; Baxter, Gordon D.; Bottin, Marie-Francoise; Axiuk, Oleg; and Reed, Phillip J., 4,710,594, Cl. 174-120.0SR.
Warwick, Alastair A.; Schenkel, David P.; and Ng, Kenny Y., 4,712,213, Cl. 371-15.000.
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Westfall, Alan P., 4,654,488, Cl. 200-5.00R.
Wight, Mark S., 4,716,578, Cl. 375-20.000.
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Northeved, Allan, to Electronic Identification Systems Silkesborg A/S, Electromedical system, 4,651,750, 3-24-87, Cl. 128-736.000.

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Binden, John A., 4,711,415, Cl. 244-17.190.
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Cohn, David B., 4,663,558, Cl. 315-163.000.
Crowder, Kenneth L., 4,650,325, Cl. 356-152.000.
Gerhardt, Heinz A., 4,648,571, Cl. 244-207.000.
Gray, Warren E., 4,649,727, Cl. 72-75.000.
Gray, Warren E., 4,682,520, Cl. 81-471.000.
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Kandelman, Allen, 4,651,781, Cl. 138-30.000.
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Lim, Wah L.; Hauck, James P.; and Raquet, Jack W., 4,705,398, Cl. 356-350.000.
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Neu, Horst W., 4,677,886, Cl. 82-53.000.
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Rickborn, Steven F.; and Rogers, Donald Z., 4,686,116, Cl. 427-215.000.
Rivoli, Mark S., 4,696,395, Cl. 206-334.000.
Rowe, James M.; and Modster, Rudolph W., 4,710,433, Cl. 428-623.000.
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Northrup, Ronnie; and Fay, Bernard, to Microvix Corporation. X-ray mask membrane deflection compensator and method. 4,698,834, 10-6-87, Cl. 378-34.000.

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Northwest Marine Technology Inc.: *See*—
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Northwest Podiatric Laboratories, Inc.: *See*—
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Brown, Dennis N., 4,688,338, Cl. 36-44.000.

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Northwestern University: *See*—
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Marks, Tobin J., and Mauermann, Heiko, 4,668,773, Cl. 534-15.000.
Marks, Tobin J.; and Mauermann, Heiko, 4,716,257, Cl. 585-275.000.
Pirmantgen, Robert E., 4,655,201, Cl. 128-80.00C.
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Nortoft, Soren B., to V. Kann Rasmussen Industri A/S. Electric control of venetian blind. 4,706,726, 11-17-87, Cl. 160-168.00R.

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Norton, James A.: *See*—
Scribner, Richard A.; and Norton, James A., 4,688,124, Cl. 360-99.000.

Norton, Jerry; and Burnham, Duane, to Buck Chuck Company. Fast change top jaw system. 4,667,971, 5-26-87, Cl. 279-121.000.

Norton, John J. Meniscus reduction retentive orthotic. 4,671,786, 6-9-87, Cl. 433-6.000.

Norton, Kenneth A.: *See*—
Hackleman, David E.; Johnson, Loren E.; and Norton, Kenneth A., 4,670,059, Cl. 106-307.000.

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Carnevale, Francesco L.; and Norton, Michael J., 4,650,015, Cl. 177-211.000.

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Norton, Peter. Dual voltage power supply system for vehicles. 4,694,238, 9-15-87, Cl. 322-28.000.

Norton, Peter R.: *See*—
Bindner, Patrick E.; Selkirk, Eric B.; and Norton, Peter R., 4,649,336, Cl. 324-61.00R.

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Jaksa, Tibor S.; Norton, Richard F.; Hall, Kenneth W.; Butler, Stephen J.; Chicoine, Craig C.; and Bienz, Wilford L., 4,715,103, Cl. 29-156.40R.

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Brady, William T.; Norton, Scott J.; and Ko, Jinrea, 4,691,052, Cl. 562-506.000.

Norton, William W., to Culligan International Company. System for treating fluids. 4,668,402, 5-26-87, Cl. 210-662.000.

Norton, William W. Faucet mounted purifier. 4,676,896, 6-30-87, Cl. 210-192.000.

Norton, William W., to Culligan International Company. Purified water storage system with accumulator tank and diaphragm responsive valves. 4,678,565, 7-7-87, Cl. 210-110.000.

Nortrup, Kevin E.: *See*—
Fitzgerald, William V.; Fernsler, Ronald E.; and Nortrup, Kevin E., 4,680,511, Cl. 315-411.000.

Norvall, Christopher W.: *See*—
Ridler, Keith D.; Taylor, Peter J.; Poley, John; Norvall, Christopher W.; and Upton, John, 4,685,475, Cl. 131-84.100.

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Hubbins, Stephen J.; England, David G.; Szczepanek, Andre; and Norvall, David, 4,698,753, Cl. 364-200.000.

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Olsen, Olav; and Hermstad, Jon, 4,674,919, Cl. 405-226.000.

Norwich, Daniel, to Telecredit, Inc. Coordinated multiple telephone station system. 4,715,061, 12-22-87, Cl. 379-91.000.

Norwich Eaton Pharmaceuticals, Inc.: *See*—
Alaimo, Robert J.; and Andersen, Jon A., 4,716,168, Cl. 514-293.000.
Moorehead, Thomas J.; and Bayless, Allan V., 4,668,667, Cl. 514-89.000.
Pelosi, Stanford S., Jr.; and Yu, Chia-Nien, 4,643,996, Cl. 514-336.000.
Tolkoff, Marc J., 4,654,036, Cl. 604-270.000.
Weber, John B.; and Covarrubias, Jesus T., 4,668,517, Cl. 424-469.000.

Norwood Industries, Inc.: *See*—
Bowditch, W. Raymond; and Rybalka, Borys, 4,644,018, Cl. 521-130.000.

Norwood, James J.: *See*—
Elesie, Louis D.; Van Hart, Elizabeth R.; Norwood, James J.; Norwood, Pauline M.; Dixon, Joseph W.; and Dixon, Eleanor M., 4,666,161, Cl. 273-246.000.

Norwood, Pauline M.: *See*—
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Hall, Laurance D.; and Norwood, Timothy J., 4,703,270, Cl. 324-309.000.

Nos, Per O.: *See*—
Aune, Jan A.; and Nos, Per O., 4,674,728, Cl. 266-193.000.

Nosaka, Kazuhiko: *See*—
Inaba, Masao; Takahashi, Hiroshi; Nosaka, Kazuhiko; and Hattori, Takahiko, 4,649,507, Cl. 364-724.000.

Nosaka, Yoshifumi: *See*—
Inuchijima, Shinobu; Kobayashi, Hirohiko; Aoki, Kyoji; Oda, Takeshi; Shimoyama, Masayuki; and Nosaka, Yoshifumi, 4,686,296, Cl. 548-544.000.

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Nothberger, Paul, to Hoffmann-La Roche Inc. Process for preparing a substituted benzaldehyde. 4,700,009, 10-13-87, Cl. 568-431.000.

Note, Hiroyasu: *See*—
Baba, Takeshi; Imataki, Hiroyuki; Usui, Masayuki; Serizawa, Takashi; and Nose, Hiroyasu, 4,712,882, Cl. 350-413.000.
Usui, Masayuki; Imataki, Hiroyuki; Serizawa, Takashi; Baba, Takeshi; and Nose, Hiroyasu, 4,714,326, Cl. 350-485.000.

Note, Noriyuki: *See*—
Nishimura, Yukuo; Miyawaki, Mamoru; Nose, Noriyuki; and Nakagiri, Takashi, 4,691,982, Cl. 350-96.120.

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Kamiya, Takeshi; Matsuura, Kazuo; Miyoshi, Mituji; Misumi, Kozo; Kadomatsu, Seiji; and Nose, Shinji, 4,652,616, Cl. 525-331.700.

Note, Toshimitsu, to Nissan Motor Co., Ltd. Expansion valve. 4,646,532, 3-3-87, Cl. 62-212.000.

Note, Yoshiharu: *See*—
Inoue, Kiyoshi; and Nose, Yoshiharu, 4,653,126, Cl. 423-280.000.

Noser, Friedrich: *See*—
Hanefeld, Wolfgang; Rothlisberger, Rudi; and Noser, Friedrich, 4,643,997, Cl. 514-226.000.
Hanefeld, Wolfgang; Rothlisberger, Rudi; and Noser, Friedrich, 4,654,339, Cl. 514-226.000.

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Kovacic, Charles R.; and Noshay, David A., 4,706,065, Cl. 340-903.000.

Noshi, Shinji; and Okuyama, Yasuo, to Murata Kikai Kabushiki Kaisha. System of controlling the winding operation of automatic winders. 4,703,900, 11-3-87, Cl. 242-35.5QR.

Noshiro, Makoto: *See*—
Matsuo, Masashi; Yamagishi, Nobuyuki; Noshiro, Makoto; Itosugiri, Yukio; and Ohnishi, Kenichi, 4,687,707, Cl. 428-336.000.

Nosker, Richard W., to RCA Corporation. Arrangement to minimize reflected ambient light in a display. 4,660,936, 4-28-87, Cl. 350-339.00D.

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Nosoi, Kazumori; Kishi, Norimasa; and Futami, Toru, to Nissan Motor Company. Speech recognition system for an automotive vehicle. 4,637,045, 1-13-87, Cl. 381-43.000.

Nosrati, Mohammad. Musical balloon. 4,704,934, 11-10-87, Cl. 84-94.200.

Noss, Gerhard; and Hoft, Alois. Process and apparatus for the simultaneous application of a multiplicity of liquid samples to an object stage. 4,699,884, 10-13-87, Cl. 435-287.000.

Nossen, Edward J., to RCA Corporation. Arrangement for coherently generating sinusoids of different frequencies, and angle modulation data receiver using the arrangement. 4,635,279, 1-6-87, Cl. 375-78.000.

Nossen, Edward J., to RCA Corporation. Phase randomization to reduce detectability of phase or frequency-modulated digital signals. 4,652,838, 3-24-87, Cl. 380-6.000.

Nossen, Edward J., to RCA Corporation. Adaptive multipath distortion equalizer. 4,669,091, 5-26-87, Cl. 375-14.000.

Nossen, Edward J., to RCA Corporation. Phase difference measurement apparatus and method. 4,704,574, 11-3-87, Cl. 324-83.00D.

Nossen, Edward J., to RCA Corporation. Dual transmit-receive space diversity communication system. 4,710,944, 12-1-87, Cl. 375-40.000.

Nosu, Kiyoshi: *See*—
Taylor, Henry F.; Rashleigh, Scott C.; Weller, Joseph F.; and Nosu, Kiyoshi, 4,666,255, Cl. 350-371.000.

Notagashira, Hidefumi; Sumi, Akiyasu; Inaba, Hiroyoshi; Katsuma, Makoto; Murakami, Hiroyasu; and Hiramatsu, Akira, to Canon Kabushiki Kaisha. Lens driving device. 4,660,933, 4-28-87, Cl. 350-255.000.

Notari, Bruno: *See*—
Bellussi, Giuseppe; Buonomo, Franco; Esposito, Antonio; Clerici, Mario; Romano, Ugo; and Notari, Bruno, 4,701,428, Cl. 502-8.000.
Taramasso, Marco; Manara, Giovanni; Fattore, Vittorio; and Notari, Bruno, 4,656,016, Cl. 423-277.000.
Taramasso, Marco; Manara, Giovanni; Fattore, Vittorio; and Notari, Bruno, 4,666,692, Cl. 423-326.000.
Taramasso, Marco, deceased; Notari, Bruno; Manara, Giovanni; and Bellussi, Giuseppe, 4,687,654, Cl. 423-329.000.

Notaro, Giuseppe; and Attena, Giancarlo, to Texas Instruments Incorporated. Delayed release locking control deivce, particularly for doors of washing machines and the like. 4,664,429, 5-12-87, Cl. 292-201.000.

Notaro, Giuseppe: *See*—
Calenda, Ciro; Notaro, Giuseppe; and Boulanger, Henry, 4,689,509, Cl. 337-365.000.
De Filippis, Pietro; Calenda, Ciro; Notaro, Giuseppe; and Boulanger, Henry, 4,696,579, Cl. 374-187.000.
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Ooms, Leo F. M.; and Notelteirs, Victor R., 4,689,519, Cl. 313-112.000.

Notetry Limited: *See*—
Dyson, James, 4,643,748, Cl. 55-338.000.

Noth, Myron A., to Square D Company. Mechanically operated pressure switch having solid state components. 4,642,478, 2-10-87, Cl. 307-118.000.

Noth, Siegmar: *See*—
Schnelle, Eberhard; and Noth, Siegmar, 4,669,137, Cl. 5-81.00R.

Nothaft, Peter, to Licentia Patent-Verwaltungs-GmbH. Infrared sensitive silicon substrate with integrated electronic processing devices and method for producing same. 4,652,901, 3-24-87, Cl. 357-40.000.

Nothdurft, Heinz: *See*—
Hofer, Gerald; and Nothdurft, Heinz, 4,662,336, Cl. 123-449.000.

Nothofer, Klaus: *See*—
Haag, Helmut; and Nothofer, Klaus, 4,696,541, Cl. 350-96.230.

Notley, Norman T., to Minnesota Mining and Manufacturing Company. Thermal diazo composition. 4,705,736, 11-10-87, Cl. 430-138.000.

Noto, Akira: *See*—
Sato, Akihiko; Noto, Akira; Morita, Fumiaki; and Nakajima, Kunihiro, 4,690,819, Cl. 424-88.000.

Noto, Frank A.: *See*—
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Noto, Richard; and Smith, David C., to RCA Corporation. Logic cell placement method in computer-aided-customization of universal arrays and resulting integrated circuit. 4,686,629, 8-11-87, Cl. 364-491.000.

Noto, Richard: *See*—
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Noto, Yasuo; and Sugimoto, Shun-ichiro, to Hitachi, Ltd.; and Fuji Heavy Industries, Ltd. Power steering control apparatus. 4,708,220, 11-24-87, Cl. 180-142.000.

Notohamiprodjo, Hubertus S., to GTE Communication Systems Corporation. Output circuit for diode-or connected positive three terminal voltage regulators. 4,658,201, 4-14-87, Cl. 323-224.000.

Notomi, Akira: *See*—
Nishi, Toshiro; Murakami, Nobuaki; Ueda, Kenji; Shirakawa, Senichi; Notomi, Akira; Hisamatsu, Kenichi; and Kaneko, Shozo, 4,686,158, Cl. 429-26.000.

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Miller, Marvin J., 4,675,399, Cl. 540-355.000.

Nott, Babu R. Electrolytic process for producing extremely low chloride anion exchange resins. 4,690,739, 9-1-87, Cl. 204-131.000.

Nottebohm, Jurgen: *See*—
Ulrichs, Klaus; Hibbel, Joseph; Schmidt, Volkmar; Lieder, Bernhard; Scheve, Heinrich; Schulze-Frenking, Burchard; Hofs, Wolfgang; and Nottebohm, Jurgen, 4,699,773, Cl. 423-396.000.

Notthoff, Johannes K.: *See*—
Zuleeg, Rainer; Notthoff, Johannes K.; and Troeger, Gary L., 4,679,298, Cl. 29-571.000.

Nottinghani, John R.: *See*—
Spirk, John W., Jr.; and Nottingham, John R., 4,692,567, Cl. 219-242.000.

Nottingham, Lawrence D.: *See*—
Ferree, Herbert E.; and Nottingham, Lawrence D., 4,670,029, Cl. 55-189.000.
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Nottoli, Robert G. Golf putting trainer. 4,700,949, 10-20-87, Cl. 273-192.000.

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Egawa, Akira; and Noudomi, Ryoichi, 4,706,252, Cl. 372-38.000.

Noufer, Glenn E.: *See*—
Laude, David P.; and Noufer, Glenn E., 4,701,643, Cl. 307-450.000.

Noufi, Rommel; and Chen, Yih-Wen, to United States of America, Energy. Process for producing chalcogenide semiconductors. 4,642,140, 2-10-87, Cl. 148-6.240.

Noumi, Ryoichi: *See*—
Kurimoto, Tatsuo; Hoboh, Yoshihiko; Ohishi, Hiroshi; Noumi, Ryoichi; and Wakano, Shigeru, 4,659,631, Cl. 428-624.000.

Nouno, Yasushi, to Toyota Jidosha Kabushiki Kaisha. Rocker arm spring for a valve actuating mechanism of an internal combustion engine. 4,676,203, 6-30-87, Cl. 123-90.420.

Nourry, Daniel, to La Telemecanique Electrique. Device for locking the control member of an electrical appliance of the manual control type. 4,677,261, 6-30-87, Cl. 200-43.150.

Nourse, Gary E.; Fergen, James E.; and Zarembo, Peter J., to Minnesota Mining and Manufacturing Company. Wireless synchronization

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Zebedee, Alan R.; and Hutchins, Derek R., 4,640,052, Cl. 49-383.000.
Nouvel, Colette: *See*—
Lejeune, Guy, 4,683,345, Cl. 568-726.000.
Nouvelle, Robert; and Segura, Jean L., to Dauphinoise Thomson. Thermostatic control devices. 4,685,651, 8-11-87, Cl. 251-11.000.
Nouvertne, Werner: *See*—
Freitag, Dieter; Nouvertne, Werner; Tacke, Peter; and Wilms, Klaus G., 4,704,430, Cl. 525-67.000.
Lindner, Christian; Ott, Karl-Heinz; Nouvertne, Werner; and Muller, Peter R., 4,656,227, Cl. 525-133.000.
Stix, Wolfgang; Nouvertne, Werner; and Buding, Hartmuth, 4,652,607, Cl. 525-67.000.
Nouvet, Andre: *See*—
Rogemont, Jean; and Nouvet, Andre, 4,701,234, Cl. 156-230.000.
Nova Celltrak, Inc.: *See*—
Hennessy, James W.; Angel, Henry R.; and Carlson, Richard A., 4,706,207, Cl. 364-555.000.
Nova Pharmaceutical Corporation: *See*—
Rzeszotarski, Waclaw J.; Hudkins, Robert L.; and Guzewska, Maria E., 4,657,899, Cl. 514-120.000.
Nova Technologies, Inc.: *See*—
Chubb, Charles F.; and Vaiana, Joseph C., 4,654,903, Cl. 5-61.000.
DiMatteo, Paul; and Chubb, Charles F., 4,679,259, Cl. 5-81.00R.
DiMatteo, Paul; and Chubb, Charles F., 4,700,415, Cl. 5-81.00R.
Novacco, Lawrence J.: *See*—
Farooque, Mohammad; and Novacco, Lawrence J., 4,713,303, Cl. 429-26.000.
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Smidrkal, Jan; Simunek, Jaroslav; Tolman, Jiri; Soucek, Jiri; Novacek, Alois; Novak, Jan; Krob, Vaclav; Kovar, Pavel; Klofec, Miroslav; and Vondracek, Bohumir, 4,637,894, Cl. 252-186.400.
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LaForge, David H.; and Lee, James, 4,665,896, Cl. 128-1.00D.
Portner, Peer M., 4,666,443, Cl. 623-3.000.
Novacorp International Consulting Ltd.: *See*—
Feller, Murray D.; and Ostick, Colin, 4,669,758, Cl. 285-94.000.
Gibb, Peter R.; and Balik, Karel, 4,662,785, Cl. 405-195.000.
Pow, Eric G., 4,647,255, Cl. 405-168.000.
NovaGene, Inc.: *See*—
Kit, Malon; and Kit, Saul, 4,703,011, Cl. 435-236.000.
Kit, Malon; and Kit, Saul, 4,711,850, Cl. 435-235.000.
Novajovsky, William A., to RCA Corporation. Magnetron having a radio frequency gasket retainer. 4,663,565, 5-5-87, Cl. 315-39.510.
Novak, Carl V.; and Browne, Ronald R., to Motorola, Inc. Light conducting, elastomeric membrane keypad. 4,636,593, 1-13-87, Cl. 200-5.00A.
Novak, Gary J., to Borg-Warner Corporation. Load block for chain-belt. 4,692,130, 9-8-87, Cl. 474-201.000.
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Novak, Leo R.; and Milligan, Dennis J., to Dow Chemical Company, The. Process for preparing olefin oxides. 4,634,506, 1-6-87, Cl. 204-80.000.
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Thaden, Robert C.; Bond, Jeffrey C.; Moravec, John V.; Guttag, Karl M.; Pinkham, Raymond; and Novak, Mark, 4,656,596, Cl. 364-521.000.
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Novak, Mark F.: *See*—
Guttag, Karl M.; Pinkam, Ray; and Novak, Mark F., 4,660,156, Cl. 364-521.000.
Heilveil, Andrew; VanAken, Jerry R.; Guttag, Karl M.; Redwine, Donald J.; Pinkham, Raymond; and Novak, Mark F., 4,639,890, Cl. 364-900.000.
Novak, Pavel: *See*—
Olsen, Don B.; Bramm, Gunter; and Novak, Pavel, 4,688,998, Cl. 417-356.000.
Novak, Richard C.: *See*—
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Otfinoski, William F.; Eaton, Harry E.; and Novak, Richard C., 4,664,973, Cl. 428-307.300.
Novak, Robert F.; and Weber, Neill, to Ford Motor Company. Electronically and ionically conducting electrodes for thermoelectric generators. 4,686,320, 8-11-87, Cl. 136-239.000.
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Novak, W. Thomas, to Micronix Corporation. Gas control for X-ray lithographic system. 4,648,106, 3-3-87, Cl. 378-34.000.
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Fay, Bernard; and Novak, W. Thomas, 4,704,033, Cl. 356-363.000.
Novak, Warren D., to Interquad, Inc. Variable height table. 4,635,565, 1-13-87, Cl. 108-147.000.
Novakovic, Mario; and Abend, Philip G., to Finetex, Inc. Surfactant compositions. 4,696,767, 9-29-87, Cl. 252-557.000.
Novatel Communications Ltd.: *See*—
Braathen, Russell E., 4,691,348, Cl. 379-389.000.
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Dumay, Jean-Jacques; and Malaval, Claude, 4,713,214, Cl. 376-312.000.
Fernandez, Luis; and Mauget, Christian, 4,676,947, Cl. 376-290.000.
Force, Christian; and Lesgure, Alain, 4,714,229, Cl. 248-610.000.
Libin, Bernard, 4,694,864, Cl. 138-113.000.
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Willard, Alvin K.; Novello, Frederick C.; Hoffman, William F.; and Cragoe, Edward J., Jr., 4,710,513, Cl. 514-460.000.
November, Daniel; Lee, Ting C.; and Bsales, Alexander. Method of eliminating electrophoretic rate differentials. 4,668,362, 5-26-87, Cl. 204-182.800.
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Caplin, Roger W. G.; Southern, Roderic G.; Fry, Gerald L.; and Hunt, David, 4,644,450, Cl. 362-147.000.
Novi, Inc.: *See*—
Villanueva, Xavier R.; and Villanueva, Sergio E., 4,662,547, Cl. 224-30.00A.
Novick, Nicholas S.: *See*—
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Kreutzer, Donald L.; Novick, William J., Jr.; and Sheetz, Michael P., 4,636,507, Cl. 514-263.000.
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Silva, Julio C.; Gaiao, Ubirajara; and Novicki, Rubens E. M., 4,707,248, Cl. 208-409.000.
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Babaian, Eduard A.; Gerasimova, Galina A.; Davydov, Anatoly B.; Utyamyshev, Rustam I.; Khromov, Gennady I.; Metelitsa, Vladimir I.; Vikhert, Anatoly M.; Savvateev, Konstantin I.; Piotrovsky, Vladimir K.; and Novikova, Elizaveta B., 4,713,230, Cl. 424-81.000.
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Novinson, Thomas, to United States of America, Navy. Alkaline earth metaborates as property enhancing agents for refractory concrete. 4,661,160, 4-28-87, Cl. 106-104.000.
Novitas, Inc.: *See*—
Moskin, Jeffrey M., 4,678,985, Cl. 323-324.000.
Novitex s.r.l.: *See*—
Camciotti, Leonardo; and Furia, Edoardo, 4,709,563, Cl. 66-222.000.
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Kmiec, Chester J.; and Novits, Michael F., 4,692,769, Cl. 252-350.000.
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Amotz, Shmuel, 4,665,928, Cl. 435-174.000.
Markussen, Erik K.; and Fog, Arne D., 4,661,452, Cl. 435-187.000.
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Carroll, John O.; Boyce, Columbus O. L.; Wong, Theodore M.; and Starace, Charles A., 4,654,216, Cl. 426-20.000.
Novolipetsky Politekhnichersky Institut Imeni Leninskogo Komsomola Belorussii: *See*—
Martyshenko, Jury P.; Martyshenko, Sergei J.; Kotelnikov, Jury S.; Kutukhtin, Evgeny G.; Ilyasova, Nelli I.; Volkov, Jury S.; Vardanian, Armenak M.; and Petrosian, Misha S., 4,701,075, Cl. 405-217.000.
Novorsky, Donald E.: *See*—
Hammond, Michael R.; and Novorsky, Donald E., 4,714,809, Cl. 219-10.430.
Mucha, George M.; Novorsky, Donald E.; and Pfaffmann, George D., 4,675,488, Cl. 219-10.430.
Pfaffmann, George D.; and Novorsky, Donald E., 4,675,057, Cl. 148-129.000.
Novoselsky, Boris. Power rake. 4,696,348, 9-29-87, Cl. 172-102.000.
Novotny, Bernd: *See*—
Gassmann, Gerhard G.; Schat, Hermannus; Elmis, Herbert; Novotny, Bernd; Kappeler, Otmar; and Ehrhardt, Dietmar, 4,710,814, Cl. 358-143.000.

Novotny, Charles P.: *See*—
Fiven-Taylor, Paula; and Novotny, Charles P., 4,659,561, Cl. 424-48.000.

Novotny, Marvin A.: *See*—
Holtzclaw, James O., Jr.; and Novotny, Marvin A., 4,696,419, Cl. 224-243.000.

Novotny, Rudolf: *See*—
Jeromin, Lutz; Krings, Heinrich; Legel, Dieter; Novotny, Rudolf; and Skrobek, Harald, 4,676,953, Cl. 422-106.000.

Novus Inc.: *See*—
Tingley, Eddie S., 4,709,513, Cl. 51-283.00R.

Novy, Robert A.: *See*—
Riemer, Ralph; Kalowski, Thaddeus J.; Dorr, Richard W.; and Novy, Robert A., 4,669,373, Cl. 99-349.000.

Nowack, Gerhard P.: *See*—
Combs, Daniel M.; Nowack, Gerhard P.; Bertus, Brent J.; and Kukes, Simon G., 4,671,866, Cl. 208-251.00H.
Johnson, Marvin M.; and Nowack, Gerhard P., 4,716,256, Cl. 585-274.000.
Kukes, Simon G.; Nowack, Gerhard P.; and Banks, Robert L., 4,659,688, Cl. 502-208.000.

Nowack, William C.; Moore, Stephen J.; and Weger, Kenneth F., Jr., to Kennick Manufacturing Company. Interlocking seal for insulated panels, 4,635,422, 1-13-87, Cl. 52-406.000.

Nowacki, Christopher; and Brisson, Alfred G., to Trutek Research, Inc. Degassification of water in hydraulic spark gap shock wave generator, 4,715,375, 12-29-87, Cl. 128-328.000.

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Nowacki, Christopher: *See*—
Brisson, Alfred G.; and Nowacki, Christopher, 4,644,958, Cl. 128-725.000.
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Shene, William R.; Nowacki, Christopher; and Brisson, Alfred G., 4,698,299, Cl. 128-328.000.

Nowacki, K. Kristine: *See*—
Nowacki, Robert S.; and Nowacki, K. Kristine, 4,706,960, Cl. 273-257.000.

Nowacki, Robert S.; and Nowacki, K. Kristine. Fields of law and legal issues card and board game apparatus, 4,706,960, 11-17-87, Cl. 273-257.000.

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Howard, Paul C.; and Nowaczek, Ed, 4,715,078, Cl. 15-4.000.

Nowaczyk, David J.: *See*—
Sitka, Raymond I.; and Nowaczyk, David J., 4,711,440, Cl. 270-53.000.

Nowaczyk, Philip J.: *See*—
Matthews, Lloyd E.; and Nowaczyk, Philip J., 4,652,987, Cl. 165-89.000.

Nowak, Claude; and Landis, Peter, to Uniswitch AG. Disc tumbler cylinder lock, 4,644,768, 2-24-87, Cl. 70-364.00R.

Nowak, Dieter, to Klockner-Becorit GmbH. Coal shaver, 4,708,396, 11-24-87, Cl. 299-34.000.

Nowak, Edward: *See*—
Dyer, Ross M. W.; and Nowak, Edward, 4,637,830, Cl. 71-105.000.

Nowak, Frederick H.; and Hovey, Isabel, to Otis Elevator Company. Adaptive assignment of elevator car calls, 4,691,808, 9-8-87, Cl. 187-125.000.

Nowak, George M.; and Stupar, James A., to Hollister Incorporated. Catheter retention device and method, 4,699,616, 10-13-87, Cl. 604-180.000.

Nowak, Gerhard, to Nixdorf Computer AG. Process and circuit arrangement for checking a program in data processing units, 4,656,631, 4-7-87, Cl. 371-19.000.

Nowak, Gerhard; Winter, Alfred; Morbitzer, Hans F.; Kruschik, Klaus; and Theuer, Rudolf, to TMC Corporation. Ski binding, in particular for use in cross-country skiing, 4,691,936, 9-8-87, Cl. 280-615.000.

Nowak, Manfred: *See*—
Dietz, Gunter; and Nowak, Manfred, 4,635,994, Cl. 296-97.00H.
Dietz, Gunter; Nowak, Manfred; and Kaiser, Klaus-Peter, 4,664,435, Cl. 296-97.00H.

Nowak, Michael E.; and Bach, Christopher R., to Motorola, Inc. Adjustable cavity to microstripline transition, 4,675,623, 6-23-87, Cl. 333-26.000.

Nowak, Michael R.: *See*—
Jorgensen, Robert W.; and Nowak, Michael R., 4,637,639, Cl. 285-249.000.

Nowak, Reiner: *See*—
Werner, Franz; Langer, Werner; and Nowak, Reiner, 4,705,210, Cl. 239-585.000.

Nowakowski, Robert J.: *See*—
Smith, Ronald W.; and Nowakowski, Robert J., 4,714,357, Cl. 384-312.000.

Nowell, Gilbert S.: *See*—
Lindberg, David K.; and Nowell, Gilbert S., 4,689,256, Cl. 428-95.000.
Lindberg, David K.; and Nowell, Gilbert S., 4,689,258, Cl. 428-141.000.
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Nowell, Richard A., to Harris-Hub Company, Inc. Bed frame, 4,709,371, 3-3-87, Cl. 5-200.00R.

Nowicki, Casimir W.; Lucius, Thomas A.; Kaminski, Ronald S.; and Potter, Robert P., to Owens-Illinois, Inc. Apparatus for applying labels in the molds of a plastic blow molding machine, 4,680,000, 7-14-87, Cl. 425-126.00R.

Nowicki, Casimir W., to Owens-Illinois, Inc. Label magazine, 4,690,395, 9-1-87, Cl. 271-98.000.

Nowicki, Casimir W.: *See*—
Franks, Nelson J.; and Nowicki, Casimir W., 4,636,166, Cl. 425-503.000.
Plemeler, John A.; Krall, Thomas J.; and Nowicki, Casimir W., 4,679,997, Cl. 425-126.00R.

Nowicki, Chester M.: *See*—
Palatucci, Gerald J.; Nowicki, Chester M.; and Heal, Gordon B., 4,658,359, Cl. 364-424.000.

Nowicki, Neal R.: *See*—
James, David E.; Nowicki, Neal R.; and McCoy, Robert W., 4,652,674, Cl. 562-414.000.

Nowicki, Roman M.: *See*—
Kovacs, Bela V.; and Nowicki, Roman M., 4,666,533, Cl. 148-2.000.

Nowinski, Robert C.; and Hoffman, Allan S., to Genetic Systems Corporation. Polymerization-induced separation immunoassays, 4,711,840, 12-8-87, Cl. 435-7.000.

Nowlin, Thomas E., to Mobil Oil Corporation. Catalyst composition for polymerizing alpha-olefins, 4,672,096, 6-9-87, Cl. 526-116.000.

Nowlin, Thomas E.: *See*—
Lo, Frederick Y.; Nowlin, Thomas E.; and Wu, Margaret M., 4,668,650, Cl. 502-111.000.
Lo, Frederick Y.; Nowlin, Thomas E.; and Wu, Margaret M., 4,677,087, Cl. 502-104.000.

Nownahal, Ali: *See*—
Elsworth, John K.; Nownahal, Ali; and Wilson, Kevin, 4,708,371, Cl. 285-13.000.

Nowobilski, Jeffert J.: *See*—
Acharya, Arun; Patterson, Michael F.; and Nowobilski, Jeffert J., 4,667,390, Cl. 29-455.00R.

Noworolski, Zbigniew; and Ferens, Jerzy, to International Exide Electronics/Corporation. Snubber circuit for H.F. bridge converter, 4,639,849, 1-27-87, Cl. 363-56.000.

Nowotny, Georg: *See*—
Visek, Tomas; Czaby, Gottfried; and Nowotny, Georg, 4,677,952, Cl. 123-372.000.

Nowsco Well Service (U.K.) Limited: *See*—
Shulver, Roderick L.; Misselbrook, John; and Standen, Robert, 4,692,988, Cl. 29-458.000.

Nowell Corporation: *See*—
Smith, James A., 4,704,222, Cl. 252-106.000.

Noyes, Androus D.; and Ricci, Joseph T., to Duracell Inc. Expandable display rack frame, 4,655,352, 4-7-87, Cl. 211-175.000.

Noyes, George L.: *See*—
O'Keeffe, Michael J.; Graba, James M.; and Noyes, George L., 4,697,167, Cl. 340-347.0DD.

Noyes, George L., Jr.; and Snah, Prabodh L., to Storage Technology Partners II. Pulsed optical data detection system, 4,688,204, 8-18-87, Cl. 369-59.000.

Noyes, Harold B., to Hewlett-Packard Company. Modem with power-off ring detection, 4,656,318, 4-7-87, Cl. 379-93.000.

Noyes, Robert W., to Honeywell Information Systems Inc. Universal internal latch and lock D shell connector, 4,634,203, 1-6-87, Cl. 339-91.00R.

Noyes, Robert W., to Honeywell Information Systems Inc. Grounding gasket for D-shell connector, 4,688,868, 8-25-87, Cl. 439-108.000.

Noyes, Robert W., to Honeywell Information Systems Inc. Latch and lock electrical connector housing, 4,702,542, 10-27-87, Cl. 439-347.000.

Noyori, Ryoji: *See*—
Hazato, Atsuo; Sugiura, Satsohi; Kurozumi, Seizi; and Noyori, Ryoji, 4,711,895, Cl. 514-530.000.
Yuki, Yoichi; Noyori, Ryoji; and Hayashi, Masahiko, 4,666,633, Cl. 260-395.000.

Nozaka, Yoshiki, to Dai Nippon Insatsu Kabushiki Kaisha. Automatic adhesive double coated tape applying device, 4,636,276, 1-13-87, Cl. 156-353.000.

Nozaka, Yoshiki, to Dai Nippon Insatsu Kabushiki Kaisha. Method for splicing successive web rolls to feed a web into a rotary press or the like, 4,655,865, 4-7-87, Cl. 156-157.000.

Nozaki, Hidetoshi; and Adachi, Toshikazu, to Kabushiki Kaisha Toshiba. Color sensor, 4,677,289, 6-30-87, Cl. 250-226.000.

Nozaki, Hiroshi: *See*—
Nakamura, Itsushi; Mori, Shigeo; and Nozaki, Hiroshi, 4,658,092, Cl. 174-182.000.

Nozaki, Hiroyoshi: *See*—
Kikuchi, Uhee; Nozaki, Hiroyoshi; Fukuda, Masao; and Satake, Toshihiko, 4,698,005, Cl. 425-163.000.
Watanabe, Teruoki; Nakamura, Yahiko; Hidaka, Akio; Kobayashi, Shunji; and Nozaki, Hiroyoshi, 4,659,628, Cl. 428-457.000.

Nozaki, Kenzie, to Shell Oil Company. Production of 1,7-octadiene from butadiene, 4,687,876, 8-18-87, Cl. 585-509.000.

Nozaki, Masato: *See*—
Nishikata, Masahiro; and Nozaki, Masato, 4,644,909, Cl. 123-41.100.

Nozaki, Mineo; and Asakura, Osamu, to Canon Kabushiki Kaisha. Printer for printing by ink transfer, 4,711,591, 12-8-87, Cl. 400-225.000.

Nozaki, Mineo: *See*—
Asakura, Osamu; Nozaki, Mineo; Nagashima, Masasumi; and Uchikata, Yoshio, 4,636,810, Cl. 346-76.0PH.
Asakura, Osamu; Nozaki, Mineo; Nagashima, Masasumi; and Uchikata, Yoshio, 4,669,897, Cl. 400-121.000.

Asakura, Osamu; Nozaki, Mineo; Uchikata, Yoshio; and Nagashima, Masasumi, 4,699,534, Cl. 400-568.000.
Goshima, Takeshi; Nozaki, Mineo; and Fukui, Hiroshi, 4,675,692, Cl. 346-1.100.
Kyogoku, Hiroshi; Nozaki, Mineo; and Rachi, Masahiro, 4,655,130, Cl. 101-93.230.
Nagashima, Masasumi; Nozaki, Mineo; Asakura, Osamu; and Uchikata, Yoshio, 4,692,774, Cl. 346-76.0PH.
Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, 4,639,744, Cl. 346-76.0PH.
Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, 4,672,393, Cl. 346-76.0PH.
Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, 4,676,683, Cl. 400-656.000.
Uchikata, Yoshio; Nozaki, Mineo; Nagashima, Masasumi; and Asakura, Osamu, 4,709,242, Cl. 346-76.0PH.

Nozaki, Satoshi: *See*—
Suzuki, Migaku; and Nozaki, Satoshi, 4,704,112, Cl. 604-378.000.

Nozaki, Shigeki: *See*—
Nakano, Masao; Takemae, Yoshihiro; Nakano, Tomio; Nozaki, Shigeki; Sato, Kimiaki; and Kodama, Nobumi, 4,716,549, Cl. 365-203.000.

Nozaki, Shinya: *See*—
Hiyama, Yasuhiro; and Nozaki, Shinya, 4,674,461, Cl. 123-500.090.
Kobayashi, Tadashi; and Nozaki, Shinya, 4,697,565, Cl. 123-449.000.

Nozaki, Shunkichi: *See*—
Kato, Norio; Nozaki, Shunkichi; Kimura, Yukihiro; and Kambe, Rokuro, 4,690,872, Cl. 428-446.000.
Watanabe, Masakazu; Okuno, Akiyasu; Nozaki, Shunkichi; Matsuo, Yasushi; and Fukuura, Isamu, 4,668,452, Cl. 264-63.000.

Nozaki, Takashi; and Hashimoto, Takashi, to Pioneer Electronic Corporation. Channel selecting device for CATV terminal unit. 4,710,971, 12-1-87, Cl. 455-179.000.

Nozaki, Takashi, to Pioneer Electronic Corporation. CATV data transmission method. 4,716,410, 12-29-87, Cl. 340-825.520.

Nozaki, Tom, Jr.; Sweet, Richard G.; Stovel, Richard T.; and Parks, David R., to Leland Stanford Junior University, The Board of Trustees of the. Method and means for sorting individual particles into containers for culturing, cloning, analysis, or the like. 4,667,830, 5-26-87, Cl. 209-3.100.

Nozaki, Toshio: *See*—
Imamura, Takashi; Nozaki, Toshio; Nishino, Kenji; and Kanai, Hiroyuki, 4,670,430, Cl. 514-188.000.

Nozaki, Tsutomu: *See*—
Nakato, Hakaru; Bessho, Nagayasu; Nozaki, Tsutomu; Habu, Yasuhiro; and Kimura, Tomoaki, 4,635,703, Cl. 164-443.000.
Nakato, Hakaru; Nozaki, Tsutomu; Kinoshita, Katsuo; Habu, Yasuhiro; Ohnuma, Hiroaki; Ohmiya, Shigeru; and Kimura, Tomoaki, 4,673,024, Cl. 164-431.000.

Nozaki, Yukimasa: *See*—
Harada, Setsuo; Nozaki, Yukimasa; and Ono, Hideo, 4,667,027, Cl. 549-221.000.
Ono, Hideo; Nozaki, Yukimasa; and Harada, Setsuo, 4,656,288, Cl. 548-244.000.

Nozato, Fujio. Ball throwing machine. 4,712,534, 12-15-87, Cl. 124-78.000.

Nozawa, Hidebumi: *See*—
Hiramatsu, Kenichi; Nozawa, Hidebumi; and Yamauchi, Takashi, 4,687,536, Cl. 156-556.000.

Nozawa, Hideyo; Hara, Toshiro; and Juen, Masahiro, to Nippon Kogaku K. K. Video finder for single-lens reflex camera. 4,704,022, 11-3-87, Cl. 354-219.000.

Nozawa, Hiroshi: *See*—
Matsukawa, Naohiro; Morita, Sigeru; and Nozawa, Hiroshi, 4,642,881, Cl. 29-576.00B.

Nozawa, Koji; and Mizukoshi, Yukio, to Nissan Motor Co., Ltd. Oil pump system in power train. 4,642,985, 2-17-87, Cl. 60-435.000.

Nozawa, Masaei: *See*—
Kamiya, Sigeru; Nozawa, Masaei; Ishida, Toshinobu; and Sasaya, Hideaki, 4,699,509, Cl. 356-70.000.

Nozawa, Seiichi; and Nakata, Michio, to Mitsubishi Chemical Industries, Ltd. Process for producing aromatic polyether ketones and polythioether ketones. 4,661,581, 4-28-87, Cl. 528-176.000.

Nozawa, Seiichi: *See*—
Yoneda, Norihiko; Fukuhara, Tsuyoshi; and Nozawa, Seiichi, 4,707,536, Cl. 528-198.000.

Nozawa, Shigenori; Ohaya, Katsumi; and Kawazoe, Toshiji, to Pfizer Inc. Topical anti-inflammatory compositions. 4,678,666, 7-7-87, Cl. 424-81.000.

Nozawa, Shigeru: *See*—
Kuroda, Hiroshi; Nishimura, Tsukasa; Nishimura, Masakatsu; Hashimoto, Taiki; Kanda, Osamu; Nozawa, Shigeru; and Shibata, Kenji, 4,687,649, Cl. 423-242.000.

Nozawa, Yasushi; and Sasaki, Noboru, to Fuji Photo Film Co., Ltd. Color photographic light-sensitive materials. 4,663,271, 5-5-87, Cl. 430-503.000.

Nozawa, Yoshikuni, to Entac Co., Ltd. Cup-shaped winding and method of fabricating same. 4,644,209, 2-17-87, Cl. 310-198.000.

Nozawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiko; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, to Hitachi, Ltd. Apparatus for assembling fins and tubes for heat exchangers. 4,698,904, 10-13-87, Cl. 29-726.000.

Nozeran, Jean-Marc; and Grimaud, Jean-Michel, to Bendix Electronics S.A. Electronic system for the production of a signal synchronous with an internal combustion engine ignition signal. 4,676,218, 6-30-87, Cl. 123-618.000.

Nozick, Jacques. Method of manufacturing multi-terminal electrical connector. 4,635,359, 1-13-87, Cl. 29-878.000.

Nozick, Jacques E.; and Lepaillier, Patrick S. Centralized switching circuit for building electrical network. 4,689,493, 8-25-87, Cl. 307-147.000.

Nozick, Jacques E. Distribution frame for optical cables. 4,697,874, 10-6-87, Cl. 350-96.230.

Nozik, Arthur J., to United States of America, Energy. Superlattice photoelectrodes for photoelectrochemical cells. 4,634,641, 1-6-87, Cl. 429-111.000.

Nozoe, Toshiro; and Yamashita, Akira, to Matsushita Electric Industrial Co., Ltd. Sampling clock reproducing circuit. 4,638,358, 1-20-87, Cl. 358-147.000.

Nozoe, Toshiro; Yamashita, Akira; Hirashima, Masayoshi; and Fukuda, Shin, to Matsushita Electric Industrial Co., Ltd. Teletext decoder. 4,667,235, 5-19-87, Cl. 358-147.000.

Nozomi, Mamoru: *See*—
Suzuki, Tetsumi; Murayama, Tetsuo; Ono, Hitoshi; Otsuka, Shigenori; and Nozomi, Mamoru, 4,664,997, Cl. 430-58.000.

Nozu, Shinsaku; Sato, Katsuharu; Tanaka, Hozumi; and Hamanaka, Kenjiro, to Pioneer Electronic Corporation. Focus error detection device for an optical recording/playing back system. 4,658,391, 4-14-87, Cl. 369-45.000.

Nozu, Shinsaku: *See*—
Hamanaka, Kenjiro; Nozu, Shinsaku; Sato, Katsuharu; and Tanaka, Hozumi, 4,663,750, Cl. 369-45.000.

Nozue, Kazunobu: *See*—
Suzuki, Hideo; and Nozue, Kazunobu, 4,695,260, Cl. 440-61.000.

Nozue, Takuji: *See*—
Hirose, Takeo; and Nozue, Takuji, 4,650,210, Cl. 280-690.000.

Nozue, Yasuhiro; Kajiyama, Koichi; and Sajiki, Kazuaki, to Kabushiki Kaisha Komatsu Seisakusho. Gas laser device. 4,691,322, 9-1-87, Cl. 372-82.000.

Nozue, Yoshihiro, to Fujitsu Limited. Error monitor circuit. 4,697,265, 9-29-87, Cl. 371-5.000.

Nozue, Yoshihiro: *See*—
Suzuki, Eiji; Nozue, Yoshihiro; and Oide, Kenichi, 4,672,631, Cl. 375-14.000.

Nozulak, Joachim; and Giger, Rudolf K. A., to Sandoz Ltd. Naphthoxazines and their use as psychostimulating and antidepressant agents. 4,656,167, 4-7-87, Cl. 514-227.000.

NPBI Nederlands Produktielaboratorium voor Bloedtransfusieapparatuur en Infusievloeistoffen B.V.: *See*—
Loos, Johannes A.; Eitjes, Willem; and de Bruyn, Johannes C. G. H., 4,663,032, Cl. 210-97.000.

NPK "Textilno Maschinostroene": *See*—
Bahov, Dinko A.; and Bahov, Hristo A., 4,680,833, Cl. 19-244.000.
Bahov, Dinko A.; and Bahov, Hristo A., 4,689,948, Cl. 57-328.000.

NPK za Kontrolno Zavarachni Raboti: *See*—
Garlanov, Dimo T.; Dimitrov, Dimiter A.; Belocv, Marin G.; Hlebarov, Vladimir P.; Vangelov, Ivan V.; Nikov, Nikolay Y. and Savov, Ivan S., 4,691,090, Cl. 219-121.0PC.

NPM International: *See*—
Hayes-Pankhurst, Richard P.; and Smith, Brian D., 4,634,818, Cl. 200-5.00A.

Npp Po Elektrotermia: *See*—
Bakalov, Nikolay G.; Penev, Penyo I.; Ivanov, Ivan K.; Velev, Velyo T.; Savov, Peter H.; and Vulchev, Alexander Y., 4,703,493, Cl. 373-95.000.

NPSK PO Poluprovodnikova Technika: *See*—
Vatzov, Vassil N.; Savov, Krestyo T.; and Stanev, Stefan G., 4,672,859, Cl. 74-479.000.

NRF Holding B.V.: *See*—
Keyzer, Willem G., 4,645,002, Cl. 165-175.000.

NRM Corporation: *See*—
Enders, George E., 4,705,589, Cl. 156-401.000.
Singh, Anand P.; and Naylor, Gary R., 4,647,273, Cl. 425-34.008.
Singh, Anand P., 4,698,003, Cl. 425-52.000.

NSK-Warner K. K.: *See*—
Kawai, Osamu, 4,663,808, Cl. 24-241.000.
Ono, Katsuyasu, 4,642,857, Cl. 24-637.000.
Ono, Katsuyasu, 4,664,415, Cl. 280-808.000.
Shoji, Masao; Uchida, Mikio; and Kitamura, Noboru, 4,635,771, Cl. 192-41.00A.
Suzuki, Akimitsu; Awaji, Tosnio; and Igari, Kozaburo, 4,690,257, Cl. 192-3.310.
Tsukamoto, Masahiro, 4,651,947, Cl. 242-107.700.
Yamamoto, Kazuo, 4,667,980, Cl. 280-801.000.
Yamamoto, Kazuo; and Asano, Shuichi, 4,679,821, Cl. 280-808.000.

NSK-Warner K.K.: *See*—
Hane, Toshiyuki, 4,695,076, Cl. 280-804.000.
Naito, Katsumi; and Imai, Hironobu, 4,671,468, Cl. 242-76.000.
Shoji, Masao; Uchida, Mikio; and Kinoshita, Yoshio, 4,635,770, Cl. 192-41.00A.
Tokugawa, Osamu, 4,676,555, Cl. 297-473.000.
Yamamoto, Kazuo; and Kawai, Osamu, 4,647,070, Cl. 280-804.000.
Yamanoi, Toshimi; and Tokugawa, Osamu, 4,676,556, Cl. 297-473.000.
Yokote, Yoshihiro, 4,659,107, Cl. 280-804.000.

NTC Electronics, Inc.: *See*—
Van Wienen, James L., 4,652,859, Cl. 340-503.000.

N'timkulu, Thabiso: *See*—
Geigert, John; Liu, Te-Ning E.; and N'timkulu, Thabiso, 4,707,446, Cl. 435-132.000.

Industries Co., Ltd.: *See—*
Masaki, 4,703,075, Cl. 524-269.000.
Uminori, 4,687,696, Cl. 428-192.000.
Bearing Co., Ltd.: *See—*
Kei; Kato, Masahiro; and Shibata, Ko, 4,684,356, Cl. 1.000.
, Tsugito; Nanami, Shoji; and Okada, Koichi, 4,686,404, 90.500.
, Noriyuki; and Nakajima, Hirokazu, 4,696,581, Cl. 3.000.
poration: *See—*
t, David L.; and Nenov, Neno T., 4,682,643, Cl. 000.
ineering Pty. Ltd.: *See—*
ll, Bryan E., 4,686,802, Cl. 52-94.000.
d: *See—*
o, Takashi; Eiermann, Dankwart; and Nuber, Roland, 40, Cl. 137-512.150.
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ard C., to Data Card Corporation. Card guide apparatus non-impact printer. 4,695,850, 9-22-87, Cl. 346-76.0PH.
A.; and Evans, Kerry G., to Harvey Hubbell Incorpogency lighting circuits. 4,686,424, 8-11-87, Cl. 315-86.000.
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gy Systems, Inc.: *See—*
ancis J., 4,677,916, Cl. 104-118.000.
ff, Obligado, Alvaro; and Zezza, Louis J., 4,667,701, Cl. 000.
Robert W., Jr., 4,669,506, Cl. 138-89.000.
cal Products, Inc.: *See—*
Lawrence, 4,673,813, Cl. 250-506.100.
s, Inc.: *See—*
Eugene N., 4,699,769, Cl. 423-20.000.
Eugene N., 4,701,310, Cl. 423-16.000.
n R.; and Marom, Emanuel, to Hughes Aircraft Comratus for high speed analysis of two-dimensional images. 1-17-87, Cl. 382-28.000.
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l. Large capacity, large area video imaging sensor. 1-3-87, Cl. 358-217.000.
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Johannes; Leclere, Klemens; Nuding, Werner; and Heinz-Josef, 4,701,240, Cl. 156-555.000.
Axel: *See—*
ans-Heiner; Frickel, Fritz-Frieder; and Nuerrenbach, 959,701, Cl. 514-130.000.
ns-Heiner; Janssen, Bernd; Frickel, Fritz-Frieder; and bach, Axel, 4,714,786, Cl. 568-633.000.
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Norbert; Nuesslein, Hans; Koeppelmann, Edgar; and w, Joerg, 4,704,212, Cl. 252-8.800.
rporation: *See—*
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W.: *See—*
ester W.; Master, Raj N.; and Nufer, Robert W., , Cl. 419-10.000.
ony R.: *See—*
k F.; Kolanowski, Clarence; Nugarus, Anthony R., o, Thomas P.; and Chmela, Frank, 4,653,183, Cl. 0.
Jr.: *See—*
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M., Jr.: *See—*
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A.; and Waller, Francis J., to Du Pont de Nemours, E. ty. Cyclopropanation process. 4,709,085, 11-24-87, Cl.

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Luc; Chermann, Jean-Claude; Barre-Sinoussi, Fran-Vezinet, Francoise; Rouzioux, Christine; Rozenly; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, rese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, allo, Robert C.; Popovic, Mikulas; and Sarngadharan, ril G., 4,708,818, Cl. 435-5.000.

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Nuijten, Petrus A. C. M.: *See—*
Steenhof, Frits A.; Welles, Petrus W. G.; Nuijten, Petrus A. C. M.; and van der Meer, Jan, 4,684,986, Cl. 358-148.000.
Nuiya, Yoshio: *See—*
Ohtaka, Shoichi; Miyano, Hideyo; Nuiya, Yoshio; and Kondo, Yukio, 4,667,647, Cl. 123-573.000.
Nukada, Fumiaki: *See—*
Oi, Takato, 4,635,130, Cl. 358-296.000.
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Nukada, Hideki; and Takahashi, Atsushi, to Kabushiki Kaisha Toshiba. Tape recorder head position controlling device. 4,677,505, 6-30-87, Cl. 360-77.000.
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Arntzen, Paul; Pirk, Hans; Vietzke, Horst; and Wingender, Hans, 4,650,518, Cl. 420-3.000.
Hewig, Gert; Schurich, Bernd; Worner, Jorg; and Schock, Hans-Werner, 4,707,561, Cl. 136-256.000.
Hofmann, Jurgen; Huschka, Hans; and Neupert, Daniel, 4,711,185, Cl. 110-215.000.
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Langhans, Horst; and Wehner, Erwin, 4,634,571, Cl. 376-416.000.
Maurer, Albrecht, 4,669,312, Cl. 73-600.000.
Maurer, Paul-Gerhard; and Neupert, Daniel, 4,654,203, Cl. 423-240.000.
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Nukiyama, Tomoji, to NEC Corporation. Interface circuit having a shift register inserted between a data transmission unit and a data reception unit. 4,649,512, 3-10-87, Cl. 364-900.000.
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Nukui, Masahiro: *See—*
Hasuo, Masayoshi; Mukai, Seiichi; Urabe, Hiroshi; Yoshida, Seiji; and Nukui, Masahiro, 4,680,374, Cl. 528-204.000.
Nukushina, Etsuzi; Tagawa, Takao; and Nakai, Yoshiyuki, to Sharp Kabushiki Kaisha. Electrophotographic recording apparatus. 4,669,861, 6-2-87, Cl. 355-14.0TR.
Nukushina, Masanori, to Tokyo Juki Industrial Co., Ltd. Method and apparatus for preparing sewing data. 4,704,977, 11-10-87, Cl. 112-266.100.
Nukushina, Masanori: *See—*
Kimoshita, Tomoaki; Takano, Kunio; Nukushina, Masanori; Wada, Minoru; and Tokunaga, Hiroshi, 4,692,871, Cl. 364-470.000.
Takano, Kunio; Nukushina, Masanori; and Miyamoto, Toshiyuki, 4,665,846, Cl. 112-121.120.
Takano, Kunio; and Nukushina, Masanori, 4,665,847, Cl. 112-121.120.
Takano, Kunio; Nukushina, Masanori; Okiyama, Yoichi; and Miyamoto, Toshiyuki, 4,691,649, Cl. 112-121.120.
Takano, Kunio; and Nukushina, Masanori, 4,694,762, Cl. 112-121.120.
Null, Larry G.: *See—*
Richardson, Eugene M.; Brehm, Norbert O.; and Null, Larry G., 4,696,377, Cl. 188-170.000.
Null, Robert A.: *See—*
Frederick, Gary L.; and Null, Robert A., 4,655,100, Cl. 74-424.80C.
Nulle, Henner; Munk, Edmund; and Huber, Helmuth, to Werzaklit-Werke J. F. Werz KG. One-piece pallet with plurality of legs. 4,674,414, 6-23-87, Cl. 108-53.300.
Numa, Syozi: *See—*
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,661,034, Cl. 414-416.000.
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,696,617, Cl. 414-422.000.
Numaguchi, Toru: *See—*
Naito, Akio; Uozu, Hirohisa; and Numaguchi, Toru, 4,714,593, Cl. 422-197.000.
Numaho, Yoshio; Kato, Yoshio; Ogawa, Tetsuro; Okada, Hiroshi; and Arima, Kiyoshi, to Tokyo Keiki Company, Ltd. PPI radar apparatus. 4,663,630, 5-5-87, Cl. 342-176.000.
Numar Corporation: *See—*
Taicher, Zvi; and Strikman, Shmuel, 4,710,713, Cl. 324-303.000.
Numata, Hidetaka, to Alps Electric Co., Ltd. Servo control for motor having cutoff device for preventing motor from being locked. 4,712,053, 12-8-87, Cl. 318-663.000.
Numata, Hidetaka; and Kawata, Toshihiko, to Alps Electric Co., Ltd. Output stage control circuit. 4,716,359, 12-29-87, Cl. 323-349.000.
Numata, Kazuo: *See—*
Watanabe, Naoharu; Numata, Kazuo; Yamagishi, Michio; Mizutani, Taku; Omura, Sadafumi; and Yamaguchi, Hideyo, 4,680,311, Cl. 514-561.000.

Numata, Ken-ichi: *See*—
Komishi, Masataka; Tomita, Koji; Oka, Masahisa; and Numata, Ken-ichi, 4,692,510, Cl. 530-317.000.

Numata, Kenichi: *See*—
Otsuki, Hiromi; Numata, Kenichi; Matsuura, Ryoshi; Nomura, Yoshihisa; Nakanishi, Nobuyasu; and Oka, Hiroyuki, 4,715,667, Cl. 303-119.000.

Numata, Koji; Tanaka, Hiroaki; and Kuno, Akira, to Nippondenso Co., Ltd.; and Nippon Soken, Inc. Vehicle turn angle detecting device. 4,633,709, 1-6-87, Cl. 73-178.00R.

Numata, Koji: *See*—
Kuno, Akira; Matsumoto, Muneaki; and Numata, Koji, 4,672,565, Cl. 364-571.000.
Matsumoto, Muneaki; and Numata, Koji, 4,642,776, Cl. 364-449.000.
Matsumoto, Muneaki; Kuno, Akira; and Numata, Koji, 4,663,719, Cl. 364-444.000.

Numata, Kunio: *See*—
Tohata, Susumu; and Numata, Kunio, 4,636,050, Cl. 353-66.000.

Numata, Masanori: *See*—
Arakawa, Masaru; and Numata, Masanori, 4,691,811, Cl. 188-290.000.
Arakawa, Masaru; and Numata, Masanori, 4,701,229, Cl. 156-69.000.

Numata, Norio, to Sony Corporation. Signal transmitting and/or receiving apparatus. 4,650,928, 3-17-87, Cl. 379-62.000.

Numata, Satoshi: *See*—
Nakatani, Kiyoshi; Numata, Satoshi; Kodaka, Kenji; Oda, Kengo; Shiraishi, Shiro; and Udagawa, Takatoshi, 4,661,501, Cl. 514-345.000.

Numata, Shigeo: *See*—
Makino, Kazuhiro; and Numata, Shigeo, 4,671,494, Cl. 254-277.000.

Numata, Shinichi: *See*—
Araki, Shoji; and Numata, Shinichi, 4,656,387, Cl. 313-389.003.
Kakizaki, Takehiro; Araki, Shoji; and Numata, Shinichi, 4,707,634, Cl. 313-432.000.
Tagawa, Susumu; Araki, Shoji; and Numata, Shinichi, 4,651,050, Cl. 313-390.000.

Numata, Shun-ichi; Fujisaki, Koji; Kinjo, Noriyuki; Imaizumi, Junichi; and Mikami, Yoshikatsu, to Hitachi, Ltd.; and Hitachi Chemical Co., Ltd. Low thermal expansion resin material and composite shaped article. 4,690,999, 9-1-87, Cl. 528-188.000.

Numata, Shunichi: *See*—
Nagae, Yoshiharu; Numata, Shunichi; Kinjo, Noriyuki; and Funahata, Katuyuki, 4,641,924, Cl. 350-339.00R.

Numata, Tatsuo; Hatanaka, Masataka; Watanabe, Junichi; Ikai, Takao; Nawamaki, Tsutomu; and Hattori, Kenji, to Nissan Chemical Industries, Ltd. Pyridine derivatives and their herbicidal compositions. 4,696,694, 9-29-87, Cl. 71-86.000.

Numata, Toshio: *See*—
Uesaka, Sadaaki; Numata, Toshio; and Umezaki, Kazunori, 4,681,229, Cl. 209-534.000.

Numata, Yasumasa: *See*—
Fujiwhara, Mitsuto; Nimura, Takao; Numata, Yasumasa; and Matsubara, Yasuko, 4,690,888, Cl. 430-549.000.

Numata, Yoshihiko: *See*—
Kuramoto, Nobuyuki; Takada, Kazuya; and Numata, Yoshihiko, 4,642,298, Cl. 501-96.000.

Numazawa, Kenichi: *See*—
Yokoyama, Tadashi; Kaizuka, Toshio; Naito, Junichi; Numazawa, Ken-ichi; Ohashi, Minoru; and Kikuchi, Tomoo, 4,665,736, Cl. 73-19.000.

Nummy, Karen A.: *See*—
Beyer, Klaus D.; Makris, James S.; Mendel, Eric; Nummy, Karen A.; Ogura, Seiki; Riseman, Jacob; and Rovedo, Nivo, 4,671,851, Cl. 156-645.000.

Nummy, Laurence J., to Nepera Chemical Co. Preparation of 4-substituted pyridines using quaternary pyridine salts. 4,672,121, 6-9-87, Cl. 546-290.000.

Nunnrich, Rudi: *See*—
Erdmannsdoerfer, Hans; Nunnrich, Rudi; Wagner, Manfred; and Weyh, Gerd, 4,670,233, Cl. 423-213.200.

Nunamaker, Charles S.: *See*—
Fromson, Robert E.; Kossowsky, Ram; and Nunamaker, Charles S., 4,640,169, Cl. 83-685.000.

Nunberg, Jack H., to Cetus Corporation. Feline leukemia virus vaccine plasmids for fusion protein of the gp70 envelope protein of FELV. 4,701,416, 10-20-87, Cl. 435-320.000.

Nuncio, Theodore. Contaminant sealing system and method. 4,640,075, 2-3-87, Cl. 52-484.000.

Nunemaker, John. Arrow rest assembly for an archery bow. 4,664,093, 5-12-87, Cl. 124-24.00R.

Nunes, Maurice: *See*—
Hurley, James R.; Birkner, Joseph R.; and Nunes, Maurice, 4,671,250, Cl. 126-21.00A.

Nunez, Carlos; Roca, Antonio; and Espiell, Fernando, to Nunez, Roca, Espiell, Universidad de Barcelona. Process for improving the extraction yield of silver and gold in refractory ores. 4,654,079, 3-31-87, Cl. 75-118.00R.

Nunez, Fabian: *See*—
Landry, Louis G.; and Nunez, Fabian, 4,704,335, Cl. 428-36.000.

Nunez, Roca, Espiell, Universidad de Barcelona: *See*—
Nunez, Carlos; Roca, Antonio; and Espiell, Fernando, 4,654,079, Cl. 75-118.00R.

Nunley, Allen, to Halliburton Company. Graded shaped spatial resolution nuclear detectors. 4,638,159, 1-20-87, Cl. 250-267.000.

Nunley, Allen: *See*—
Sonne, Darrell S.; and Nunley, Allen, 4,638,164, Cl. 250-366.00.

Nunley, C. Lynn; and Tomaselli, Joe W., to Loadmaster Systems, Inc. Composite roof/roof deck assembly with polymeric membrane. 4,707,961, 11-24-87, Cl. 52-408.000.

Nunlist, Erwin J., to Kennecott Corporation. Apparatus for avoiding thermal stresses in glass lined vessels. 4,711,296, 12-8-87, Cl. 165-47.000.

Nunn, Adrian D.; Feld, Thomas A.; and Treher, Elizabeth N., to E. R. Squibb & Sons, Inc. Boronic acid adducts of technetium-99m dioxime complexes. 4,705,849, 11-10-87, Cl. 534-14.000.

Nunn, John O., Jr.: *See*—
Nunn, John O., Sr.; and Nunn, John O., Jr., 4,702,086, Cl. 62-113.000.

Nunn, John O., Sr.; and Nunn, John O., Jr., to Turbo Cools Inc. Refrigeration system with hot gas pre-cooler. 4,702,086, 10-27-87, Cl. 62-113.000.

Nunn, Timothy A.: *See*—
Kurtz, Anthony D.; Nunn, Timothy A.; and Weber, Richard A., 4,672,354, Cl. 338-4.000.

Nunning, Bernard C.: *See*—
Begum, Selima; Ullah, Ismat; and Nunning, Bernard C., 4,713,246, Cl. 424-455.000.

Nunning, Walter J.: *See*—
Chamberlin, John M.; Chilvers, Edward W., Jr.; Nunning, Walter J.; and Southern, John H., 4,646,514, Cl. 57-295.000.

Nunogaki, Naochika: *See*—
Atsumi, Morihiro; Nunogaki, Naochika; Ito, Noyuri; and Murata, Naohito, 4,644,133, Cl. 219-270.000.

Nunokawa, Eiichi: *See*—
Ishida, Toshihiko; and Nunokawa, Eiichi, 4,646,916, Cl. 206-387.000.
Satoh, Takateru; Shiba, Haruo; and Nunokawa, Eiichi, 4,682,258, Cl. 360-132.000.

Nunokawa, Kazuo, to Tokyo Kogaku Kikai Kabushiki Kaisha. Ophthalmoscopic instrument having working position detecting means. 4,712,894, 12-15-87, Cl. 351-208.000.

Nunokawa, Tadao. Portable cart. 4,684,141, 8-4-87, Cl. 280-40.000.

Nunomura, Shigeki: *See*—
Fujii, Setsuro; Nakayama, Toyoo; Nunomura, Shigeki; Matsui, Ryoji; Watanabe, Shin-ichi; Sudo, Kunio; Okutomo, Toshiyuki; Kurumi, Masateru; Sakurai, Yojiro; and Aoyama, Takao, 4,634,783, Cl. 549-475.000.

Nunotani, Sadao: *See*—
Ishizaki, Naoki; Nunotani, Sadao; Tada, Tatsumi; Uehara, Kazuo; and Akashichi, Shuki, 4,646,622, Cl. 91-446.000.

Nunoya, Hidetsugu: *See*—
Makimoto, Toshio; Nishimura, Sadahiko; Matsui, Masayuki; Abiko, Toshio; Ishizaki, Hirofumi; Kanda, Minoru; Nunoya, Hidetsugu; and Komatsu, Mikio, 4,713,670, Cl. 343-700.MS.

Nuns, Jacques; and Abraham, Joseph, to Electricite de France (Service National); and Celes. Electromagnetic induction device for heating metal elements. 4,673,781, 6-16-87, Cl. 219-10.49R.

Nunweiler, Raymond J., Jr.: *See*—
Sides, Richard J., Sr.; Crawford, Christopher L.; Nunweiler, Raymond J., Jr.; Muth, David L.; and Hope, George P., 4,643,493, Cl. 312-7.200.

Nuotio, Lasse O.: *See*—
Mikkola, Antti R.; Hakkinen, Heli-Rutta M.; Nuotio, Lasse O.; Nurmi, Esko V.; and Schnetz, Carita E., 4,657,752, Cl. 424-93.000.

Nuovo Pignone S.p.A.: *See*—
Ferrari Aggradi, Gian P.; and Ferrante, Cesare M., 4,695,202, Cl. 405-227.000.
Vinciguerra, Constantino; and Bonfiglioli, Giampaolo, 4,640,628, Cl. 265-15.000.
Vinciguerra, Costantino, 4,645,083, Cl. 212-210.000.

Nuovopignone-Industrie Meccaniche e Fonderia S.p.A.: *See*—
Biagini, Giuliano; and Bartolozzi, Roberto, 4,709,854, Cl. 236-20.00R.

Nupro Company: *See*—
Danko, Oliver L.; Bork, Carl R., Jr.; Steiss, William C.; and Levengood, Donald A., 4,634,099, Cl. 251-335.300.
Danko, Oliver L.; and Bork, Carl R., Jr., 4,687,017, Cl. 137-315.000.
Kolenc, Terrence J.; and Scheffel, Gary W., 4,671,490, Cl. 251-335.200.
Kolenc, Terrence J.; Bork, Carl R., Jr.; Steiss, William C.; Shufflebarger, Earl D.; and Tobbe, William P., 4,664,106, Cl. 251-335.200.
Scheffel, Gary W.; Medvick, Richard J.; and Steiss, William C., 4,637,430, Cl. 137-516.290.
Scheffel, Gary W., 4,659,060, Cl. 251-332.000.
Scheffel, Gary W., 4,659,061, Cl. 251-332.000.
Simonelli, James K.; and Scheffel, Gary W., 4,687,180, Cl. 251-122.000.
Simonelli, James K.; Scheffel, Gary W.; and Jagiello, Joseph J., 4,687,181, Cl. 251-223.000.

Nurczyk, Mark E.; Wilson, Patrick J.; and Wood, Tony J., to American Standard Inc. Microprocessor FSK data communications module. 4,689,801, 8-25-87, Cl. 375-9.000.

Nurmi, Esko V.; Schnetz, Jarita E.; and Makela, Pirjo H., to Farmos-Yhtyma Oy. Process for the production of a bacterial preparation for the prophylaxis of intestinal disturbances in poultry. 4,689,226, 8-25-87, Cl. 424-93.000.

Nurmi, Esko V.: *See*—
Mäkelä, Antti R.; Hakkinen, Heli-Riitta M.; Nuotio, Lasse O.; Nurmi, Esko V.; and Schnetz, Carita E., 4,657,762, Cl. 424-93.000.

Nurmi, Jarmo; Rundt, Kenneth; and Oikari, Timo, to Wallac Oy. Liquid scintillation counter. 4,687,935, 8-18-87, Cl. 250-361.00R.

Nurminen, John I.: *See*—
Sibol, George P.; McDonald, Samuel G.; and Nurminen, John I., 4,648,912, Cl. 148-11.50F.

Nurminen-Kalliokoski, Marjatta H.: *See*—
Mäkelä, Pirjo H.; Leinonen, Maija K.; Nurminen-Kalliokoski, Marjatta H.; and Saikku, Pekka A. I., 4,652,518, Cl. 435-7.000.

Nurnberger, George H. Sanitary feces collection device. 4,641,873, 2-10-87, Cl. 294-1.400.

Nurre, Harry.: *See*—
Philpot, James R.; Pinkston, Steve R.; and Nurre, Harry, 4,643,215, Cl. 137-15.000.

Nusbaum, Max, and Paneth, Alter. Non-thermostatic constant temperature device for food heat maintenance. 4,675,506, 6-23-87, Cl. 219-405.000.

Nutko, Valery A.: *See*—
Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Danilyak, Sergei N.; Gavva, Viktor M.; Rotko, Jury P.; and Nutkho, Valery A., 4,716,273, Cl. 219-130.010.
Vasiliev, Vsevolod V.; Danilyak, Sergei N.; Levina, Anna I.; Nutkho, Valery A.; and Rotko, Jury P., 4,689,021, Cl. 414-234.000.

Nutter, Eugene, and Bradley, John J., to Honeywell Information Systems Inc. LSI microprocessor chip with backward pin compatibility. 4,654,789, 3-31-87, Cl. 364-200.000.

Nuttall, Inc.: *See*—
Zacharias, Ellis M., 4,649,754, Cl. 73-861.180.

Nut, Lothar, to Stapla Ultraschall-Technik GmbH. Device for connecting electric conductors. 4,646,957, 3-3-87, Cl. 228-1.100.

Nut, Sheldon E., to Ford Motor Company. Adjustable suspension stabilizer bar. 4,648,620, 3-10-87, Cl. 280-689.000.

Nuthecher, Hans K., to Siemens Aktiengesellschaft. Circuit arrangement for accelerated carry formation in an adder device. 4,639,888, 1-27-87, Cl. 364-788.000.

Nuthum, Helmut. Sabot for subcaliber projectiles. 4,651,649, 3-24-87, Cl. 102-521.000.

Nuthum, Marvin, to Stepan Company. Preparation of acyloxy benzene sulfonate. 4,692,279, 9-8-87, Cl. 260-402.000.

Nuthum, Otto J., to Argon Corporation. Personalized air conditioning. 4,646,966, 3-3-87, Cl. 237-49.000.

Nuthum, Theodore W.; Tooker, Keith R.; and Cox, Percy T., to Texaco Inc. Well logging disc coil receiving means and method. 4,703,278, 10-27-87, Cl. 324-344.000.

Nuthum, Theodore W.: *See*—
Cox, Percy T.; Warren, Wayne F.; and Nussbaum, Theodore W., 4,700,141, Cl. 324-341.000.
Warren, Wayne F.; Nussbaum, Theodore W.; Cox, Percy T.; and Johnson, Donald L., 4,687,995, Cl. 324-341.000.

Nuthumer, Manfred; Glaser, Eberhard; and Beitinger, Eberhard, to Ed. Zublin Aktiengesellschaft. Plug connection for planar barrier webs. 4,671,705, 6-9-87, Cl. 405-267.000.

Nuthumer, Manfred, to Ed. Zublin Aktiengesellschaft. Method and apparatus for the underground installation of pipelines. 4,673,312, 6-16-87, Cl. 405-184.000.

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Nuthumer, Manfred; Glaser, Eberhard; Beitinger, Eberhard; and Eckert, Hartmann, to Ed. Zublin Aktiengesellschaft. Method and [illegible] for subsequent underground sealing. 4,697,953, 10-6-87, Cl. 405/128.000.

Nuthumer, Max. Urine collector for incontinent women having [illegible]. 4,692,160, 9-8-87, Cl. 604-331.000.

Nut, K[illegible]as J. R.: *See*—
Bu[illegible]s, Alfred H. P., deceased; Campetti, Gianfranco; Baumgartl, Walter A.; and Nusse, Klaus J. R., 4,644,312, Cl. 335-216.000.

Nuser, Hermann: *See*—
Arnold, Herbert; Bosch, Walter; Horbelt, Michael; Marsch, Wolfgang; Nusser, Hermann; Peters, Klaus-Jurgen; Werner, Peter; and Willke, Clemens, 4,693,111, Cl. 73-118.100.

Nuser, Terry R.: *See*—
Goldstein, Alan J.; and Nusser, Terry R., 4,698,752, Cl. 364-200.000.

Nuspack, Inc.: *See*—
Malcolm, Alexander R.; and Gessner, David M., 4,655,763, Cl. 604-404.000.

Nus-Developers, Inc.: *See*—
Malone, Thomas J., 4,661,365, Cl. 426-507.000.

Nus-Fuels Systems, Inc.: *See*—
Bratman, Eugene R., 4,687,782, Cl. 514-561.000.

Nut, Michael D., to Filer & Stowell Co., Inc. Lumber edger. 4,676,130, 6-30-87, Cl. 83-155.000.

Nutt, Ruth F.: *See*—
Freidinger, Roger; Nutt, Ruth F.; Lyle, Terry A.; and Superstein, Richard, 4,703,034, Cl. 514-11.000.

Nutt, Wendell G.: *See*—
Beggs, Richard D.; Friesen, Harold W.; and Nutt, Wendell G., 4,697,051, Cl. 178-63.00D.

Nuttall, Jerry H.: *See*—
Woodall, Bobbie L.; and Nuttall, Jerry H., 4,682,446, Cl. 51-281.00R.

Nuttens, Hugo J. C.; and VanHaeren, Gerard, to Exxon Research & Engineering Co. Polyethylene wax. 4,698,450, 10-6-87, Cl. 585-520.000.

Nutter, Harry A., Jr., to United Technologies Corporation. Method of making fiber reinforced articles. 4,648,921, 3-10-87, Cl. 156-77.000.

Nutter, Robert C.: *See*—
Okuhara, Patricia A.; Pierce, Dorothy A.; and Nutter, Robert C., 4,670,399, Cl. 435-317.000.

Nutting, Robert G.: *See*—
Shelby, Richard K.; and Nutting, Robert G., 4,698,012, Cl. 425-526.000.

Nuttnig, Thomas C., to Eastman Kodak Company. Modified synchronization in apparatus for recording and reproducing single field non-interlaced images. 4,647,987, 3-3-87, Cl. 360-37.100.

Nutting, Thomas C., to Eastman Kodak Company. Exposure level correction for film-to-video conversion. 4,660,091, 4-21-87, Cl. 358-214.000.

Nutting, Thomas C., to Eastman Kodak Company. Focusing aid for a manually focused video camera. 4,660,092, 4-21-87, Cl. 358-224.000.

Nuttle, David A. Bird repelling means. 4,656,770, 4-14-87, Cl. 43-2.000.

Nutzel, Oswald; and Zimmermann, Egbert, to Dycko.off & Widmann Aktiengesellschaft. Apparatus for and method of assembling a tension tie member. 4,648,146, 3-10-87, Cl. 14-21.000.

Nutzel, Oswald: *See*—
Zimmermann, Egbert; and Nutzel, Oswald, 4,648,147, Cl. 14-21.000.

Nuvatec, Inc.: *See*—
Slavik, William H.; Carlson, William P.; Cepynsky, George L.; Dussault, Paul G.; Margison, Steven E.; and Wolf, James A., Jr., 4,682,958, Cl. 434-335.000.

Nuwayser, Elie S., to Biotek, Inc. Transdermal drug delivery system. 4,687,481, 8-18-87, Cl. 604-897.000.

Nuwayser, Elie S., to Biotek, Inc. Sustained release composition. 4,707,362, 11-17-87, Cl. 424-433.000.

Nuzzi, Francis J.; Leech, Edward J.; Charm, Richard W.; and Pobichette, Joseph, to Kollmorgen Technologies Corporation. Process and composition for sensitizing articles for metallization. 4,662,944, 5-5-87, Cl. 106-1.110.

Nuzzo, Ralph G.: *See*—
Allara, David L.; and Nuzzo, Ralph G., 4,690,715, Cl. 148-6.15R.
Green, Martin L.; Levy, Roland A.; and Nuzzo, Ralph G., 4,716,050, Cl. 427-99.000.

n.v. ADB s.a.: *See*—
Delflache, Robert J., 4,675,574, Cl. 315-130.000.

N.V. Bekaert S.A.: *See*—
Dambre, Paul, 4,645,718, Cl. 428-625.000.
Dambre, Paul, 4,651,513, Cl. 57-217.000.
Soens, Lode J., 4,664,971, Cl. 428-288.000.
Tack, Rufin; and Eggermont, Marc, 4,715,556, Cl. 242-118.600.

N.V. Lighttown Constructions: *See*—
Anthonijsz, Edwin M. C., 4,698,034, Cl. 440-27.000.

N.V. Nederlandsche Apparatenfabriek NEDAP: *See*—
Fockens, Talbenco W. H., 4,696,517, Cl. 340-572.000.

N.V. Optimed: *See*—
Hellstrom, Lars, 4,714,329, Cl. 351-158.000.
Henkel, Gunter, 4,640,587, Cl. 350-432.000.

N.V. Optische Industrie "De Oude Delft": *See*—
Arbouw, Jac, 4,649,770, Cl. 74-529.000.
Breemer, Johannes, 4,681,454, Cl. 356-402.000.
Dumker, Simon; and Vlashloem, Hugo, 4,675,893, Cl. 378-151.000.
Dumker, Simon; and Vlashloem, Hugo, 4,677,652, Cl. 378-151.000.
Geluk, Ronald J., 4,637,150, Cl. 40-361.000.
Geluk, Ronald J., 4,665,539, Cl. 378-010.000.
Gomen, Gijsbert L., 4,673,817, Cl. 250-561.000.
Vingerling, Abraham, 4,658,113, Cl. 219-147.000.

N.V. Raychem S.A.: *See*—
Doucet, Jozef G. A.; Pieck, Amandus L. E.; and De Blauwe, Francis J. A. M. C., 4,675,512, Cl. 219-535.000.
Nolf, Jean-Marie E.; Genbrugge, Hubert; Buekers, Valere; Mendes, Luiz N.; Doucet, Jos; and Vansant, Jan, 4,648,165, Cl. 29-447.000.
Nolf, Jean-Marie E., 4,648,924, Cl. 156-85.000.
Overbergh, Noel M. M.; and Vansant, Jan, 4,689,474, Cl. 219-528.000.
Vansant, Jan; Overbergh, Noel; Buekers, Valere; and Pieck, Amandus L. E., 4,641,009, Cl. 219-200.000.
Vansant, Jan; and Overbergh, Noel M. M., 4,641,402, Cl. 24-703.000.

N.V. Sky Climber Europe S.A., naamloze vennootschap: *See*—
Rinio, Johannes, 4,681,301, Cl. 254-333.000.

N.V. Verenigde Energiebedrijven Van Het Scheldeland Mechelse-teerweg: *See*—
Bosquet, Herman; and Ulens, Stanislas F., 4,696,723, Cl. 204-16.000.

N.V. W.A. Hoek's Machine: *See*—
Hoek, Cornelis; and van Ditten, Jurjen L., 4,640,031, Cl. 40-306.000.

N.V. Weefautomaten Picanol: *See*—
Rosseel, Rik; Decock, Bernard; Wyffels, Marc; and Ampe, Frank, 4,677,004, Cl. 139-435.000.
Shaw, Henri, 4,702,283, Cl. 139-348.000.
van Bogaert, Philippe; and Maes, Dirk, 4,703,779, Cl. 139-435.000.
Vandeweghe, Michel M. J.; Victoor, Johnny-Fredy-Maurice; and Lagache, Remi-Louis, 4,708,174, Cl. 139-448.000.
Nyberg, David D.; Chang, Rong J.; and Toy, Lester T., to Raychem Corporation. Coextruded recoverable articles, 4,656,070, 4-7-87, Cl. 428-36.000.
Nyberg, Fred, to Hultman, Ture; and Pedersen, Per. Filtering impurities from liquid using mineral wool fiber material. 4,652,379, 3-24-87, Cl. 210-717.000.
Nyberg, Glen A.; and Buhrman, Robert A., to United States of America, Navy. Vanadium dioxide film deposition. 4,654,231, 3-31-87, Cl. 427-255.300.
Nyberg, Glen A., to General Motors Corporation. Windshield wiper control system and a precipitation sensor therefor. 4,665,351, 5-12-87, Cl. 318-483.000.
Nycomed AS: *See*—
Klaveness, Jo, 4,714,607, Cl. 424-9.000.
Nye, Leroy M., Jr.; and Pike, Thomas W., to Xerox Corporation. Cleaning system for a multicolor electrophotographic printing machine. 4,639,124, 1-27-87, Cl. 355-15.000.
Nye, Susan A.: *See*—
Berdahl, Donald R.; Nye, Susan A.; and Yeager, Gary W., 4,668,739, Cl. 525-132.000.
Nyegaard & Co. A/S: *See*—
Benneche, Tore; and Undheim, Kjell, 4,705,791, Cl. 514-274.000.
Nyeki nee Kuprina, Olga; Kisfaludy, Lajos; Szeberenyi nee Szalay, Katalin; Makara, Gabor; Varga, Bertalan; Karpati, Egon; and Szporny, Laszlo , to Richter Gedeon Vegyeszeti Gyar Rt. Process for the preparation of angiotensin-II analogues substituted in the 1-, 5- and 8- positions. 4,672,054, 6-9-87, Cl. 514-16.000.
Nyenbrink, Willard H. Door opener. 4,660,324, 4-28-87, Cl. 49-343.000.
Nyfeler, Robert; and Ehrenfreund, Josef, to Ciba-Geigy Corporation. Difluorbenzodioxyl cyanopyrrole microbicidal compositions. 4,705,800, 11-10-87, Cl. 514-422.000.
Nyfeler, Robert: *See*—
Frick, Willy; Meyer, Alfred; and Nyfeler, Robert, 4,657,921, Cl. 514-383.000.
Frick, Willy; Meyer, Alfred; and Nyfeler, Robert, 4,690,942, Cl. 514-383.000.
Nyffeler Corti: *See*—
Lamping, Alfons; and Karth, Beat, 4,693,385, Cl. 215-232.000.
Nyffeler, Corti AG: *See*—
Lamping, Alfons; Karth, Beat; and Hiltbrunner, Werner, 4,673,601, Cl. 428-35.000.
Nyffeler, Urs: *See*—
Gaisch, Helmut; and Nyffeler, Urs, 4,709,710, Cl. 131-308.000.
Nygren, Alf S.: *See*—
Agback, Karl H.; Agback, Tamara; and Nygren, Alf S., 4,695,648, Cl. 560-053.000.
Nygren, Bo H.; and Stenberg, Johan E., to Astra Meditec AB. Process for providing articles with a biocompatible surface layer. 4,673,584, 6-16-87, Cl. 427-2.000.
Nygren, Donald W.: *See*—
Jorgensen, Jorgen A.; and Nygren, Donald W., 4,642,443, Cl. 219-10.55E.
Nygren, Gordon W.; and Mourning, Richard C., to Magnetic Peripherals Inc. Epoxy mixing system. 4,668,097, 5-26-87, Cl. 366-162.000.
Nyhart, Randall E.: *See*—
Greene, Neil E.; Grubka, Lawrence J.; and Nyhart, Randall E., 4,673,428, Cl. 65-2.000.
Grubka, Lawrence J.; and Nyhart, Randall E., 4,664,688, Cl. 65-1.000.
Nyhof, Eldon J.: *See*—
Skogler, Brian L.; Nyhof, Eldon J.; and Katsma, William L., 4,646,210, Cl. 362-142.000.
Nyi, Lawrence S.: *See*—
West, Daniel A.; Nyi, Lawrence S.; and Ravelo, Ramon J., 4,634,302, Cl. 400-124.000.
West, Daniel A.; Nyi, Lawrence S.; and Ravelo, Ramon J., 4,634,303, Cl. 400-124.000.
West, Daniel A.; and Nyi, Lawrence S., 4,674,897, Cl. 400-124.000.
Nyilas, Emery; and Chiu, Tin-Ho, to Allied Corporation. Method of forming prosthetic devices. 4,670,286, 6-2-87, Cl. 427-2.000.
Nyiredy-Mikita, Klara: *See*—
Meszaros, Sandor; Verzar-Petri, Gisela; Nyiredy-Mikita, Klara; Tyihak, Erno; Nyiredy, Szabolcs; Meier, Beat; Sticher, Otto; and Dallenbach-Toelke, Karin, 4,678,570, Cl. 210-198.200.
Nyiredy, Szabolcs: *See*—
Meszaros, Sandor; Verzar-Petri, Gisela; Nyiredy-Mikita, Klara; Tyihak, Erno; Nyiredy, Szabolcs; Meier, Beat; Sticher, Otto; and Dallenbach-Toelke, Karin, 4,678,570, Cl. 210-198.200.
Tompa, Ildiko F.; Nagy, Attila; Tyihak, Erno; Nyiredy, Szabolcs; Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida, Laszlo ; Mincsovics, Emil; Kemeny, Gabor; and Baranyi, Piroska, 4,671,870, Cl. 210-149.000.
Nyitrai, Jozsef: *See*—
Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Emko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.
Nylon Line Cutters (Pty.) Ltd.: *See*—
Engelbrecht, Filluppus T.; Potgieter, Frederick D.; Smith, Cecil R.; and Helmig, Michael A., 4,660,286, Cl. 30-276.000.
Nylund, Olov, to AB Asea-Atom. Spacer for fuel rods. 4,695,426, 9-22-87, Cl. 376-441.000.
Nylund, Olov: *See*—
Arbrink, Richard; and Nylund, Olov, 4,707,328, Cl. 376-446.000.
Nylund, Per O.: *See*—
Haggbom, Sune; Nylund, Per O.; and Lind, Arne, 4,676,433, Cl. 236-10.000.
Nylund, Thomas W.: *See*—
Cowan, Carl E.; Lubinsky, Anthony R.; Nylund, Thomas W.; Specht, Malcolm R.; and Spence, John P., 4,708,459, Cl. 355-4.000.
Nyman, Bror G.: *See*—
Hultholm, Stig-Erik; Lilja, Launo L.; Makitalo, Valto J.; and Nyman, Bror G., 4,648,973, Cl. 210-629.000.
Nyman, Georg N.; Pauliny, Ferdinand; and Schindl, Klaus P., to C. Reichert Optische Werke AG. Optical arrangement for microscopes. 4,678,291, 7-7-87, Cl. 350-510.000.
Nyman, Lars-Erik, to Flygt Aktiebolag. Device for breeding fish and shellfish. 4,711,199, 12-8-87, Cl. 119-3.000.
Nyman, Rune: *See*—
Broddner, Sven M.; Hogman, Leif B.; Nyman, Rune; and Klotholm, Lars, 4,657,008, Cl. 128-203.270.
Nymark, Roald P., to Gerber Garment Technology, Inc. Restricting bracket for automatic transport system. 4,712,485, 12-15-87, Cl. 104-172.400.
Nyquist, Gary A., to Deere & Company. Cross loop attenuator for hydraulic systems. 4,642,035, 2-10-87, Cl. 417-312.000.
Nyquist, Jack K.: *See*—
Chao, Tze; and Nyquist, Jack K., 4,655,839, Cl. 106-105.000.
Nyqvist, Jan-Olof: *See*—
Back, Sigurd; Nyqvist, Jan-Olof; and Ericsson, Per, 4,699,741, Cl. 264-3.400.
Back, Sigurd; and Nyqvist, Jan-Olof, 4,714,572, Cl. 264-3.400.
Svensson, Leif; Nyqvist, Jan-Olof; and Westling, Lars, 4,638,065, Cl. 544-196.000.
Nyrkio-Maklin, Tiina: *See*—
Kurki, Jouko; Sandvik, Orjan; and Nyrkio-Maklin, Tiina, 4,671,087, Cl. 73-3.000.
Nyrup, John: *See*—
Hansen, Henning M.; Jacobsen, Hans E.; Hansen, Henry; Lassithiotakis, Konstantin; Pedersen, Allan S.; and Nyrup, John, 4,641,537, Cl. 73-861.120.
Jacobsen, Hans E.; Hansen, Henning M.; Nyrup, John; Hansen, Henry; and Lassithiotakis, Konstantin, 4,635,486, Cl. 73-861.120.
Jacobsen, Hans E.; Hansen, Henning M.; Nyrup, John; Hansen, Henry; and Lassithiotakis, Konstantin, 4,641,536, Cl. 73-861.120.
Nyrup, Torsten, to Aktieselskabet Thomas Ths. Sabroe & Co. Slice-ice producing machine. 4,700,551, 10-20-87, Cl. 62-346.000.
Nys, Pierre H.; and Vermeulen, Leon L., to Agfa-Gevaert N.V. Photographic method for the production of documents. 4,635,733, 1-6-87, Cl. 358-298.000.
Nysen, Paul A.: *See*—
Kelly, Joseph L., Jr.; Howard, Mig A.; Nysen, Paul A.; and Hacking, Colin A., 4,698,631, Cl. 340-853.000.
Rossetti, Anthony J.; and Nysen, Paul A., 4,703,327, Cl. 342-44.000.
Nyssen, Peter R.: *See*—
Wagner, Wolfram; Nyssen, Peter R.; Espanion, Gunter; Berkenhaus, Dirk; Haladuda, Gunter; van Pey, Hans-Theo; and Schott, Karl-Heinz, 4,676,815, Cl. 65-16.000.
Nysted, Leonard N.; and Pappo, Raphael, to G. D. Searle & Co. 5-fluoro-PGI_2 compounds. 4,670,569, 6-2-87, Cl. 549-465.000.
Nystrom, Borje: *See*—
Andreasson, Eva M.; Egeli, Finn; Holmberg, Krister A.; Nystrom, Borje; Stridh, Kjell G.; and Osterberg, Eva M., 4,650,000, Cl. 166-307.000.
Hansen, Helge; Nystrom, Borje; and Torneng, Eyvin, 4,657,759, Cl. 424-83.000.
Hansen, Helge; Nystrom, Borje; and Torneng, Eyvin, 4,668,455, Cl. 264-143.000.
Nystrom, Norman A. Propeller driven tunnel boat. 4,685,889, 8-11-87, Cl. 440-69.000.
Nystuen, Arne M.; and Kuss, John M., to Whirlpool Corporation. Method of adjusting motor performance. 4,675,566, 6-23-87, Cl. 310-254.000.
Nystuen, David L., to Ecolab Inc. Volumetric gravity feed liquid dispenser. 4,691,721, 9-8-87, Cl. 134-96.000.
Nytol Enterprises Limited: *See*—
Knight, Robert G.; Klat, Samir R.; and Unwin, Kenneth, 4,711,309, Cl. 175-93.000.
Nytomt, Jan: *See*—
Gillbrand, Per; Johansson, Hans; and Nytomt, Jan, 4,648,367, Cl. 123-425.000.
Nytomt, Jan G.: *See*—
Johansson, Sven H.; and Nytomt, Jan G., 4,706,638, Cl. 123-647.000.
Nyul, Paul; and Hedel, Rudolph H., to RCA Corporation. Electronic assembly having an adjustable window. 4,642,513, 2-10-87, Cl. 313-110.000.
O. Ames Co.: *See*—
Eads, Harold O.; and Planthaber, Rudolph F., 4,655,494, Cl. 294-49.000.
O.B.I. Co.: *See*—
O'Brien, Paul, 4,671,417, Cl. 211-59.100.

O-Board, Inc.: *See—*
Helms, Robert L., Jr., 4,667,965, Cl. 273-243.000.
O C.C. Company Limited: *See—*
Ohno, Atsumi, 4,665,970, Cl. 164-471.000.
O E.M. Technical Sales, Inc.: *See—*
Scoboria, Raymond, 4,641,861, Cl. 285-39.000.
O I. Corporation: *See—*
Hall, Randall C., 4,649,124, Cl. 436-150.000.
O K. Orenstein & Koppel Aktiengesellschaft: *See—*
Ceylan, Sukru , 4,694,948, Cl. 198-311.000.
Clemens, Karl-Heinz, 4,683,959, Cl. 172-795.000.
Hoffmann, Dieter; and Trumper, Reinhard, 4,681,205, Cl. 198-307.100.
Hofling, Peter, 4,635,783, Cl. 198-321.000.
Hofling, Peter; and Schoneweiss, Klaus, 4,645,059, Cl. 198-321.000.
Kuchhoff, Bernd; and Mecklenfeld, Hermann, 4,712,744, Cl. 241-80.000.
Steinkuhler, Siegfried; and Wantig, Ulrich, 4,646,449, Cl. 37-66.000.
Trumper, Reinhard; and Baschant, Robert, 4,693,661, Cl. 414-595.000.
von Bernuth, Hans-Dietrich; and Heinc, Franz, 4,645,030, Cl. 180-333.000.
O Key Printed Wiring Co., Ltd.: *See—*
Ninomiya, Takeshi; and Ozaki, Risuke, 4,663,208, Cl. 428-138.000.
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O M. Edwards Company, Inc.: *See—*
Ranz, John C.; and Ahlgren, David T., 4,635,396, Cl. 49-141.000.
O M. Scott & Sons Company, The: *See—*
McVey, George R.; Tornberg, Kenneth W.; Widell, Larry R.; and Wood, George E., 4,704,160, Cl. 71-92.000.
Timmons, Richard J., 4,636,242, Cl. 71-28.000.
O M.V. Officine Meccaniche Vilminore S.p.A.: *See—*
Pezzoli, Luigi, 4,633,915, Cl. 139-1.00C.
O Oka Forge Co. Ltd.: *See—*
Higuchi, Tetsuya; and Morita, Shigeru, 4,672,729, Cl. 29-159.200.
O R.C Manufacturing Co., Ltd.: *See—*
Tabata, Hidetoshi, 4,645,349, Cl. 356-382.000.
O S.E. Kabushiki Kaisha: *See—*
Kon, Toshiharu, 4,681,998, Cl. 219-99.000.
O S. Kelly Company, The: *See—*
Schissler, Brian D., 4,655,652, Cl. 409-132.000.
O S. Kyro A/B Tamglass: *See—*
Reunamaki, Pauli T.; Yli-Vakkuri, Erkki P. J.; and Anttonen, Kauko K., 4,695,821, Cl. 338-316.000.
Reunamaki, Pauli T.; Yli-Vakkuri, Erkki P. J.; and Anttonen, Kauko K., 4,712,086, Cl. 338-315.000.
Oaderi, Satyed B. A.: *See—*
Dickie, Ray A.; and Oaderi, Satyed B. A., 4,687,812, Cl. 525-111.000.
Oa Industries Inc.: *See—*
Davidov, Mircho A., 4,652,924, Cl. 358-197.000.
Davidov, Mircho A., 4,688,247, Cl. 380-19.000.
Hanas, Orest J.; Pennypacker, Frank C.; Radloff, Charles B.; and Schulman, Richard D., 4,709,266, Cl. 380-20.000.
Oa Ridge Systems, Inc.: *See—*
Blackburn, Donald, 4,646,695, Cl. 123-256.000.
Blackburn, Donald, 4,696,269, Cl. 123-256.000.
Oain, Alan E., to Digital Equipment Corporation. Data encoder system. 4,715,036, 12-22-87, Cl. 371-37.000.
Oain, Grant A. Method of rebuilding a strip mill guide. 4,686,345, 8-11-87, Cl. 219-76.140.
Oais, John, to Lever Brothers Company. Detergent bleach compositions. 4,655,953, 4-7-87, Cl. 252-99.000.
Oais, Martin C., to Y. S. Securities Limited. Fuse for an alternating current power circuit. 4,692,733, 9-8-87, Cl. 337-158.000.
Oais, Thomas R.: *See—*
Maloney, James F.; Freis, Richard E.; and Oakes, Thomas R., 4,643,800, Cl. 162-5.000.
Oaks, John D.: *See—*
Marshall, John; and Oakey, John D., 4,638,638, Cl. 62-9.000.
Marshall, John; and Oakey, John D., 4,638,639, Cl. 62-9.000.
Oakland Corporation, The: *See—*
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Oakland Engineering Inc.: *See—*
Finch, Alfred C., 4,669,297, Cl. 72-448.000.
Oakley, Barbara: *See—*
LeFault, Robert H.; Jezzi, Arrigo D.; Milner, James D.; Oakley Barbara; and Franke, Paul G., 4,639,254, Cl. 604-385.00R.
Oakley, David J.; and Bogart, Rex L., to United States of America, Energy. Belt conveyor apparatus. 4,662,510, 5-5-87, Cl. 198-819.000.
Oakley, John R., to Metal Box p.l.c. Methods and apparatus for erecting fly-type cartons. 4,636,187, 1-13-87, Cl. 493-134.000.
Oakwood Lymber & Millwork Co. Limited: *See—*
Corvese, Vincent, 4,706,431, Cl. 52-313.000.
Oan, Yasuhiro, to Kabushiki Kaisha Toshiba. Method of manufacturing a color-matrix-type liquid crystal display device. 4,709,990, 12-1-87, Cl. 350-339.00F.
Oar, Darrell: *See—*
Eckhoff, Steven R.; Oard, Darrell; Davis, Arthur B.; and Behnke, Kieth C., 4,703,647, Cl. 73-81.000.
Oar, Charles P., Jr., to Tree Lok, Inc. Boat stabilizer. 4,676,181, 6-30-87, Cl. 114-230.000.
Oar, Danny R., to Conoco Inc. Adapter bracket for making a valve safe. 4,714,233, 12-22-87, Cl. 251-14.000.
Oar, Robert M.; Petronio, Carlo F.; and Kraus, Mark G., to Westinghouse Electric Corp. Apparatus for monitoring housed turbine blading to obtain blading-to-housing distance. 4,644,270, 2-17-87, Cl. 324-207.000.
Oatman, Donald S. Heat insulating insert for footwear. 4,658,515, 4-21-87, Cl. 36-44.000.
Oba, Hanji; Hyodo, Koji; Honda, Michiyasu; and Kameyama, Kazuhide, to Nippon Steel Corporation. Machine for direct rolling of steel casting and producing steel product therefrom. 4,658,882, 4-21-87, Cl. 164-417.000.
Oba, Harutaro, to Tokyo Electric Co., Ltd. Sheet delivering device for business machine. 4,647,032, 3-3-87, Cl. 271-186.000.
Oba, Harutaro; Ozawa, Yasuhiko; Yamaguchi, Yasuyoshi; and Mimoto, Osamu, to Tokyo Electric Co., Ltd. Paper supply device for an electrostatic photographic printer. 4,681,422, 7-21-87, Cl. 355-3.00R.
Oba, Hideaki: *See—*
Abe, Michiharu; and Oba, Hideaki, 4,652,514, Cl. 430-343.000.
Abe, Michiharu; Umehara, Masaakira; Sato, Tsutomu; Oba, Hideaki; Ueda, Yutaka; and Kunikane, Makoto, 4,696,892, Cl. 430-495.000.
Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, 4,656,121, Cl. 430-495.000.
Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, 4,714,667, Cl. 430-270.000.
Oba, Hidehiro, to Toyota Jidosha Kabushiki Kaisha. Fuel injection control device for internal combustion engine. 4,685,436, 8-11-87, Cl. 123-492.000.
Oba, Hidehiro: *See—*
Isobe, Toshiaki; and Oba, Hidehiro, 4,690,117, Cl. 123-492.000.
Oba, Hiroki, to Alps Electric Co., Ltd. Latching mechanism for switch. 4,677,267, 6-30-87, Cl. 200-153.00J.
Oba, Hiroki, to Alps Electric Co., Ltd. Miniature push button switch with coil spring movable contact. 4,684,775, 8-4-87, Cl. 200-276.000.
Oba, Hiroki; Aoki, Seiichi; Niinuma, Akira; and Sato, Seiichiro, to Alps Electric Co., Ltd. Wafer and method for manufacturing switch wafer. 4,690,484, 9-1-87, Cl. 439-736.000.
Oba, Hiroki, to Alps Electric Co., Ltd. Switch. 4,698,465, 10-6-87, Cl. 200-16.00F.
Oba, Koichiro, to Hamamatsu Photonics Kabushiki Kaisha. X-ray shadow graph device. 4,692,938, 9-8-87, Cl. 378-62.000.
Oba, Koichiro, to Hamamatsu Photonics Kabushiki Kaisha. High speed light detection tube. 4,709,140, 11-24-87, Cl. 250-207.000.
Oba, Koichiro, to Hamamatsu Photonics Kabushiki Kaisha. System for calibrating the time axis of an X-ray streak tube. 4,714,825, 12-22-87, Cl. 250-213.0VT.
Oba, Kunio: *See—*
Oda, Minoru; and Oba, Kunio, 4,696,789, Cl. 376-254.000.
Oba, Seisuke; Mikami, Tsutomu; Suzuki, Hideyuki; Shimada, Mitsuhiro; and Suzuki, Tadashi, to Sony Corporation. Video tape recorder with first and second loading positions. 4,706,141, 11-10-87, Cl. 360-96.500.
Oba, Toshio: *See—*
Itoh, Kunio; Kozakai, Shohei; Hida, Yoshinori; Okinoshima, Hiroshige; Okada, Fumio; Oba, Toshio; Shimizu, Hisashi; Hinoto, Yuji; and Yoshioka, Hiroshi, 4,678,688, Cl. 427-387.000.
Okada, Fumio; Oba, Toshio; and Nakazato, Morizo, 4,670,309, Cl. 427-387.000.
Sasaki, Isao; Yanagase, Akira; Kawachi, Yasunori; Mayuzumi, Tetsuya; Oba, Toshio; and Okada, Fumio, 4,690,986, Cl. 525-479.000.
Oba, Yoichi: *See—*
Iwasa, Yamahiro; Kabe, Atsushi; and Oba, Yoichi, 4,684,054, Cl. 228-180.100.
Obana, Hiroshi: *See—*
Omura, Eiichi; Kawamura, Youji; Obana, Hiroshi; Aizawa, Takemi; Tamai, Motomi; Inagaki, Tsuguya; and Tokita, Minoru, 4,691,869, Cl. 241-34.000.
Obana, Yasuo: *See—*
Endoh, Koichi; Kaneko, Toshiyuki; Yaoi, Hideo; Aso, Seiji; Obana, Yasuo; and Takahama, Hideyuki, 4,661,151, Cl. 75-53.000.
Obara Corporation: *See—*
Obara, Hiroshi, 4,673,793, Cl. 219-86.100.
Obara, Haruki; and Aso, Toshiyuki, to Fanuc Ltd. Apparatus for guiding a wire electrode of a wire electrode discharge machine. 4,638,140, 1-20-87, Cl. 219-69.00W.
Obara, Haruki, to Fanuc Ltd. Wire-cut electric discharge machining method. 4,649,252, 3-10-87, Cl. 219-69.00W.
Obara, Haruki, to Fanuc Ltd. Contact sensing apparatus in electric discharge machine. 4,654,497, 3-31-87, Cl. 219-69.00C.
Obara, Haruki; Ito, Masaya; and Tonamura, Masashi, to Fanuc Ltd. Wire discharge machining power source. 4,678,884, 7-7-87, Cl. 219-69.00P.
Obara, Haruki, to Fanuc Ltd. Electric discharge machining power source. 4,710,603, 12-1-87, Cl. 219-69.00C.
Obara, Haruki: *See—*
Inoue, Michiya; Obara, Haruki; and Izumiya, Shunzo, 4,681,997, Cl. 219-69.00C.
Kinoshita, Mitsuo; and Obara, Haruki, 4,685,064, Cl. 364-474.000.
Obara, Hiroshi, to Obara Corporation. Connecting metal fittings for resistance welder. 4,673,793, 6-16-87, Cl. 219-86.100.
Obara, Kazuaki: *See—*
Takemura, Yoshinari; Obara, Kazuaki; and Nagashima, Michiyoshi, 4,712,204, Cl. 369-32.000.
Obara, Keishi: *See—*
Saida, Toyoyasu; Sunagawa, Takahisa; Yamakawa, Tsuneo; Ohta, Norima; and Obara, Keishi, 4,686,068, Cl. 252-632.000.
Obara, Kouichiro: *See—*
Horie, Motonobu; Shimizu, Teruo; and Obara, Kouichiro, 4,644,961, Cl. 131-94.000.

Obara, Masami: *See—*
Ikeda, Akitoshi; Nishimura, Chitoshi; Katsuoka, Norio; and Obara, Masami, 4,715,582, Cl. 254-134.3CL.

Obara, Naoshi: *See—*
Oushiden, Hideshi; and Obara, Naoshi, 4,641,933, Cl. 355-14.00R.

Obara, Sanshiro: *See—*
Omae, Tsutomu; Obara, Sanshiro; Kubo, Kenji; and Watanabe, Masahiko, 4,712,052, Cl. 318-625.000.

Obara, Takashi, to NEC Corporation. Inverter for use in binary counter. 4,680,482, 7-14-87, Cl. 307-279.000.

Obara, Takashi: *See—*
Satoh, Susumu; Matsuoka, Saiji; Obara, Takashi; Tsuneyama, Kozo; and Irie, Toshio, 4,675,844, Cl. 148-12.00C.
Satoh, Susumu; Suzuki, Hideo; Obara, Takashi; Nishida, Minoru; and Hashimoto, Osamu, 4,708,748, Cl. 148-2.000.

Obarowski, Richard: *See—*
Vietrogoski, Charles J.; Obarowski, Richard; and McDonough, Paul J., 4,709,608, Cl. 83-355.000.

Obata, Keigo; Dohi, Nobuyasu; Okuhama, Yoshiaki; Masaki, Seishi; Okada, Yukiyoshi; and Yoshimoto, Masakazu, to Obata, Keigo; Dohi, Nobuyasu; Daiwa Fine Chemicals Co., Ltd.; and Ishihara Chemical Co., Ltd. Tin, lead, or tin-lead alloy plating bath. 4,673,470, 6-16-87, Cl. 204-44.400.

Obata, Kosei: *See—*
Matsunaga, Hiroshi; Shimojima, Yoji; Tokunaga, Ichiro; and Obata, Kosei, 4,684,210, Cl. 350-96.200.
Matsunaga, Hiroshi; Tokunaga, Ichiro; Shimojima, Yoji; and Obata, Kosei, 4,705,348, Cl. 350-96.150.

Obata, Masaaki: *See—*
Terui, Mituru; Obata, Masaaki; and Morooka, Noriji, 4,660,884, Cl. 297-317.000.

Obata, Minoru: *See—*
Ao, Hideki; Obata, Minoru; and Inui, Jun, 4,678,745, Cl. 514-222.000.
Ao, Hideki; Obata, Minoru; Yamanaka, Tsutomu; and Mikashima, Hiroshi, 4,713,381, Cl. 514-222.000.

Obata, Yoshiharu; Noji, Takashi; Sugiyama, Masahiro; and Kawamura, Shigeharu, to Tokyo Shibaura Denki Kabushiki Kaisha. Fiber optic phosphor screen and a method of manufacturing the same. 4,654,558, 3-31-87, Cl. 313-372.000.

Obata, Yoshiharu; Noji, Takashi; Sugiyama, Masahiro; and Kawamura, Shigeharu, to Kabushiki Kaisha Toshiba. Method of manufacturing a phosphor screen. 4,670,094, 6-2-87, Cl. 156-655.000.

Obata, Yutaka: *See—*
Shimada, Yukio; Obata, Yutaka; Takeoka, Takahisa; and Katoh, Toyotoshi, 4,658,595, Cl. 62-179.000.

Obayashi, Akira; Hiraoka, Nobutsugu; Kita, Keiko; and Nakajima, Hiroshi, to Takara Shuzo Co., Ltd. Process for producing a restriction enzyme. 4,668,631, 5-26-87, Cl. 435-199.000.

Obayashi, Akira: *See—*
Beppu, Teruhiko; Takesako, Kazutoh; Nakamura, Teruya; and Obayashi, Akira, 4,703,128, Cl. 549-270.000.

Obayashi, Hideki; Kawai, Hisasi; Ina, Toshikazu; Shigematsu, Takashi; Tokoro, Setsuo; and Kohama, Tokio, to Nippon Soken, Inc.; Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Method and apparatus for detecting combustion variations in internal combustion engine. 4,691,286, 9-1-87, Cl. 364-431.040.

Obayashi, Hiroaki; Kobayashi, Hiroshi; and Takeuchi, Kiyoshi, to Nissan Motor Co., Ltd. Ultrasonic vehicle rangefinder. 4,677,595, 6-30-87, Cl. 367-13.000.

Obayashi, Hiroaki; and Kobayashi, Hiroshi, to Nissan Motor Company, Limited. Ultra-sonic distance measuring apparatus and method. 4,677,599, 6-30-87, Cl. 367-99.000.

Obayashi, Masaru. Glove. 4,663,783, 5-12-87, Cl. 2-161.00A.

Obayashi, Shigeji: *See—*
Nakamura, Morio; Obayashi, Shigeji; Yamamoto, Takushi; Nakanishi, Toshikazu; Tanaka, Hitoshi; and Sakamoto, Yuji, 4,683,274, Cl. 526-216.000.

Obayashi, Tsutomo; Watanabe, Shinobu; and Ino, Kazuhide, to Hiraoka & Co., Ltd. Process for preparation of water-proof sheets. 4,696,830, 9-29-87, Cl. 427-41.000.

Obayashi, Tsutomu; Watanabe, Shinobu; and Ino, Kazuhide, to Hiraoka & Co. Ltd. Process for preparation of water-proof sheets. 4,678,681, 7-7-87, Cl. 427-38.000.

Obayashi, Tsutomu; Ino, Kazuhide; Hiraoka, Yoshiji; and Baba, Saburo, to Hiraoka & Co., Ltd. Composite sheet material. 4,686,135, 8-11-87, Cl. 428-265.000.

Obayashi, Tsutomu; Ino, Kazuhide; Hiraoka, Yoshiji; and Baba, Saburo, to Hiraoka & Co., Ltd. Stainproof, flame-resistant composite sheet material. 4,714,650, 12-22-87, Cl. 428-265.000.

Obayashi, Yoshiaki: *See—*
Iida, Kozo; Nagano, Tsuneo; Yokoyama, Naruo; Obayashi, Yoshiaki; and Mitsuoka, Shigeaki, 4,656,147, Cl. 502-26.000.

Obayashyi, Hidehito: *See—*
Soda, Yasunari; Mochiji, Kozo; Kimura, Takeshi; and Obayashyi, Hidehito, 4,701,940, Cl. 378-34.000.

Obbermito, Antonio, to Ovas S.a.s. di A. Obbermito & C. Device adapted to be fixed to crash barrier guard rail. 4,686,785, 8-18-87, Cl. 40-606.000.

Obbola Linerboard Aktiebolag: *See—*
Svard, Rune L., 4,667,606, Cl. 110-110.000.

Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, to Kubuto, Ltd. Tractor cabin. 4,650,242, 3-17-87, Cl. 296-190.000.

Obe-Werk Ohnmacht & Baumgartner GmbH & Co. K.G.: *See—*
Drlik, Gunther, 4,674,147, Cl. 16-228.000.

Obeda, Edward G. Apparatus and method for ultrasonically join sheets of termoplastic materials. 4,713,131, 12-15-87, Cl. 156-73.10

Obel, Werner; and Zahn, Klaus, to Deere & Company. Telesco adjusting crank for tractor 3-point hitch. 4,709,941, 12-1-87, 280-461.00A.

Obenauf, Hans-Dietrich: *See—*
Bretthauer, Karlheinz; and Obenauf, Hans-Dietrich, 4,663,764, 373-104.000.
Bretthauer, Karlheinz; and Obenauf, Hans-Dietrich, 4,683,577, 373-105.000.
Bretthauer, Karlheinz; and Obenauf, Hans-Dietrich, 4,701,932, 373-104.000.

Obenaus, Roman: *See—*
Abratis, Horst; Obenaus, Roman; and Schafer, Klaus, 4,647,306, 75-49.000.

Obenreder, Robert J., to PPG Industries, Inc. System for detecti variations in surface composition of an article. 4,645,337, 2-24-87, 356-128.000.

Obenshain, D. Noel. Door closer mechanism. 4,639,969, 2-3-87, 16-70.000.

Ober, Christopher K.; and Lok, Kar P., to Xerox Corporation. Tin compositions with stabilizer irreversibly anchored thereto. 4,652,50 3-24-87, Cl. 430-109.000.

Ober, Christopher K.; and Branston, Randolph E., to Xerox Corpo tion. Preparation of ink jet compositions. 4,692,188, 9-8-87, 106-23.000.

Ober, Christopher K.: *See—*
Hair, Michael L.; Lok, Kar P.; Ober, Christopher K.; Crouch Melvin D.; and Wong, Raymond W., 4,680,332, Cl. 524-377.00

Ober, Jurgen: *See—*
Knothe, Erich; Melcher, Franz-Josef; Ober, Jurgen; Berg, Chr toph; Dardat, Klaus; Bierich, Eduard; and Maaz, Gunth 4,656,599, Cl. 364-567.000.

Ober, Stephen H., to Empi, Inc. Apparatus and method for preventi bruxism. 4,669,477, 6-2-87, Cl. 128-421.000.

Oberbeck, George: *See—*
Downer, James R.; Eisenhaure, David B.; Oberbeck, Georg Bliamptis, Tim E.; and Hendrie, Susan D., 4,700,094, 310-90.500.

Oberberger, Franz: *See—*
Dirmeyer, Josef; Kathmann, Heinz; Merkle, Franz; Oberberg Franz; Wilhelm, Walter; and Wimmer, Josef, 4,700,157, 333-185.000.

Oberdorf, Manfred, to Maschinenfabrik Alfred Schmermund GmbH Co. Apparatus for feeding cigarettes to a packaging stati 4,648,235, 3-10-87, Cl. 53-54.000.

Oberdorf, Manfred, to Maschinenfabrik Alfred Schmermund GmbH Co. Ejection method and apparatus. 4,685,554, 8-11-87, 198-468.600.

Oberdorf, Manfred, to Maschinenfabrik Alfred Schmermund GmbH Co. Apparatus for feeding blanks to a packaging station. 4,698,9 10-13-87, Cl. 53-456.000.

Oberdorfer, Guido, to Guido Oberdorfer WAP-Maschinen. Vacu cleaner apparatus. 4,665,581, 5-19-87, Cl. 15-326.000.

Oberdorfer, Hans E., to Hansa Metallwerke AG. Single-lever mi 4,651,774, 3-24-87, Cl. 137-625.170.

Oberg Enterprises, Inc.: *See—*
Butler, David L., 4,684,162, Cl. 294-82.120.

Oberg, Hans-Joachim: *See—*
Oetting, Hermann; Oberg, Hans-Joachim; Pundt, Dieter; Binnewies, Willi, 4,669,443, Cl. 123-647.000.

Oberg, Neil G., to Cardel, Inc. Electronic level measuring systems truck trailers. 4,658,508, 4-21-87, Cl. 33-333.000.

Oberhauser, Peter: *See—*
Lanzisera, Vincent A.; Scalisi, Robert A.; and Oberhauser, Pe 4,650,276, Cl. 350-96.200.

Oberhofer, Alfred W.: *See—*
Kelly, John A.; Grattan, David A.; and Oberhofer, Alfred 4,657,785, Cl. 427-255.600.

Oberhofer, David P., to Sullivan Corporation. Manufactured refin element. 4,681,270, 7-21-87, Cl. 241-298.000.

Oberhoffner, Gerhard: *See—*
Brunner, Rudolf; and Oberhoffner, Gerhard, 4,667,865, 226-1.000.

Oberholser, Larry E.: *See—*
Checkley, James D.; and Oberholser, Larry E., 4,645,166, 248-503.100.

Oberholtzer, Steven L. Hot water supply system. 4,648,426, 3-10-87, 137-603.000.

Oberholzer, Herbert: *See—*
Senn, Georg; and Oberholzer, Herbert, 4,644,979, Cl. 139-82.0

Oberjatzas, Gunter: *See—*
Keesen, Heinz-Werner; Oberjatzas, Gunter; and Peters, Hart 4,694,336, Cl. 358-133.000.

Oberkirch, Wolfgang: *See—*
Sackmann, Gunter; Mazanek, Jan; Oberkirch, Wolfgang; and B Herbert, 4,670,516, Cl. 525-327.600.

Oberlander, Andreas, to WABCO Westinghouse Steuerungstech GmbH & Co. Mechanical release arrangement for a fluid-press operated braking cylinder. 4,649,804, 3-17-87, Cl. 92-63.000.

Oberlander, Claude: *See—*
Nedelec, Lucien; Fauveau, Patrick; Hamon, Gilles; and O lander, Claude, 4,661,482, Cl. 514-227.000.

Nedelec, Lucien; Hamon, Gilles; Fauveau, Patrick; and Oberlander, Claude, 4,694,011, Cl. 514-323.000.

Oberlander, George H.; and Stormo, Keith E. Heating/cooling/ventilation unit. 4,678,025, 7-7-87, Cl. 165-12.000.

Oberlander, Karol H.; and Umlauf, Norbert, to Umlauf, Norbert. Shears, especially circular knife shears. 4,638,701, 1-27-87, Cl. 83.490.000.

Oberlander, Lewis B., Spicer, David A.; and Straubs, Ralph V., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Communication system control arrangement. 4,713,806, 12-15-87, Cl. 370-58.000.

Oerlikon-Boehringer GmbH: *See*—
Zeller, Bruno, 4,669,927, Cl. 408-13.000.

Oberlin, Claude: *See*—
Dolhen, Gerard; Oberlin, Claude; Lemarquis, Jean-Claude; and Bandura, Daniel, 4,705,259, Cl. 251-61.100.

Oberlinner, Andreas: *See*—
Mayer, Udo; and Oberlinner, Andreas, 4,647,675, Cl. 549-394.000.

Oberly, Charles E.; Gegel, Harold L.; and Ho, James C., to United States of America, Air Force. Composite aluminum conductor for pulsed power applications at cryogenic temperatures. 4,711,825, 12-8-87, Cl. 428-614.000.

Oberman, Carl D.: *See*—
Hoffman, Norman E.; and Oberman, Carl D., 4,686,333, Cl. 200-6.00B.

Obermann, George, to Eaton Corporation. Pressure responsive assembly. 4,648,277, 3-10-87, Cl. 73-725.000.

Obermann, Klaus. Apparatus for tinning printed-circuit boards. 4,635,584, 1-13-87, Cl. 118-64.000.

Obermayer, Heinz: *See*—
Biermeier, Johann; and Obermayer, Heinz, 4,692,827, Cl. 360-97.000.

Obermeier, Dale T. Crop lifting attachment for combine snout. 4,704,850, 11-10-87, Cl. 56-119.000.

Obermeier, Rainer; Geiger, Rolf; and Grau, Ulrich, to Hoechst Aktiengesellschaft. Process for converting preproinsulin analogs into insulin. 4,639,333, 1-27-87, Cl. 530-303.000.

Obermeier, Rainer; Teetz, Volker; and Ludwig, Jurgen, to Hoechst Aktiengesellschaft. Process for the separation of mixtures of insulin, insulin derivatives and, where appropriate, impurities. 4,677,192, 6-30-87, Cl. 530-305.000.

Obermeier, Rainer; Salomon, Ingeborg, and Ludwig, Jurgen, to Hoechst Aktiengesellschaft. Process for the isolation and purification of alpha-interferons. 4,681,931, 7-21-87, Cl. 530-351.000.

Obermeier, Rainer: *See*—
Kessler, Horst; Kutscher, Bernhard; Obermeier, Rainer; and Mullner, Hubert, 4,650,788, Cl. 514-11.000.
Konig, Wolfgang; Geiger, Rolf; Obermeier, Rainer; and Mullner, Hubert, 4,658,016, Cl. 530-330.000.

Obermeyer, Franklin D.: *See*—
Veronesi, Luciano; Obermeyer, Franklin D.; and Chrise, James R., 4,681,728, Cl. 376-209.000.

Oberoi, Bhusan K.: *See*—
Baker, Robin M.; Sargeant, Paul R.; Papper, Ernest G.; Oberoi, Bhusan K.; Smith, Frank A.; and Rae, Malcolm C., 4,695,418, Cl. 264-151.000.

Oberoi, Bhushan K.; and Dancy, Michael J., to Redland Roof Tiles Limited. Tile manufacturing apparatus. 4,661,054, 4-28-87, Cl. 425/254.000.

Oberoi, Bhushan K.; and Conroy, Terence J., to Redland Roof Tiles Limited. Tile manufacturing apparatus. 4,668,151, 5-26-87, Cl. 414/331.000.

Oberoi, Bhushan K., to Redland Roof Tiles Limited. Collation assembly. 4,712,361, 12-15-87, Cl. 53-540.000.

Oberschmidt, Alec: *See*—
Hillington, Richard A.; and Oberschmidt, Alec, 4,702,385, Cl. 220-18.000.

Obermeier, Hans. Adjustable vehicle seat. 4,659,145, 4-21-87, Cl. 297/330.000.

Obermass, Detlev, to Barmag AG. Friction yarn false twisting apparatus. 4,667,576, 5-26-87, Cl. 92-110.000.

Oberteuffer, John A.: *See*—
Buchimsen, Dieter; and Oberteuffer, John A., 4,668,959, Cl. 346-1.100.

Obi Industries, Inc.: *See*—
Berger, Jacob E., 4,651,735, Cl. 128-304.000.

Obi, James H.: *See*—
Moore, James G.; Obey, James H.; and Pinkel, Edward B., 4,640,740, Cl. 159-13.100.

Obi, Hideo: *See*—
Kojima, Shigeru; and Obi, Hideo, 4,686,434, Cl. 318-52.000.

Obika, Fumito: *See*—
Watabayashi, Hiroshi; Obikawa, Fumito; and Ikeda, Masayuki, 4,688,763, Cl. 354-173.110.

Obika, Tsuyoshi: *See*—
Shimozaki, Yoshio; Mukai, Hiroshi; Obikawa, Tsuyoshi; and Yamada, Shuhei, 4,684,220, Cl. 350-350.00R.

Obina, Hiroaki; Iniai, Kunihiko; and Sunohara, Masayuki, to Shinko Electric Industries Co., Ltd. Ceramic package for semiconductor devices. 4,675,243, 6-23-87, Cl. 428-210.000.

Obino, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Manaka, Shinichi, to Shin Nisso Kako Co., Ltd. Chromogenic materials employing fluoran compounds. 4,680,598, 7-14-87, Cl. 503-217.000.

Obino, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Manaka, Shinichi, to Shin Nisso Kako Co., Ltd. Fluoran compounds. 4,687,862, 8-18-87, Cl. 549-224.000.

Obitsu, Takeo: *See*—
Yahagi, Masakichi; Obitsu, Takeo; Igaki, Tetsuo; Horisawa, Kazuyuki; Nanbu, Morio; Kinoshita, Kimiaki; and Manaka, Sumio, 4,668,967, Cl. 346-221.000.

Obitz, Daniel: *See*—
Manoury, Philippe; Obitz, Daniel; and Peynot, Michel, 4,711,892, Cl. 514-336.000.

Obitz, Kenneth W.: *See*—
Knott, Jack E., II; and Obitz, Kenneth W., 4,671,987, Cl. 428-216.000.

Object Recognition Systems, Inc.: *See*—
Wilder, Joseph, 4,642,813, Cl. 382-8.000.

Obkircher, Bernt, to Dornier System GmbH. Gassification of carbon containing waste, refuse or the like. 4,681,599, 7-21-87, Cl. 48-92.000.

Oblad, Roger P.: *See*—
Barr, John T., IV; Neering, Michael J.; Fullmer, Douglas E.; Oblad, Roger P.; Cannon, Wayne C.; and Elmore, Glenn E., 4,641,086, Cl. 324-77.00R.

Obley, Alan L., to Westinghouse Electric Corp. Dynamoelectric machine roll back collector housing. 4,707,628, 11-17-87, Cl. 310-89.000.

Obligado, Alvaro: *See*—
Evans, Cliff; Obligado, Alvaro; and Zezza, Louis J., 4,656,714, Cl. 29-157.00C.
Evans, Cliff; Obligado, Alvaro; and Zezza, Louis J., 4,667,701, Cl. 138-93.000.

Obman, Howard J.; and Brodbeck, Howard D., to MG Industries. Apparatus for cooling a vacuum furnace. 4,643,401, 2-17-87, Cl. 266-80.000.

OBO Bettermann oHG: *See*—
Broszukat, Peter, 4,669,742, Cl. 279-41.00A.

Oboler, Leonard; and Schram, John M., to High Tech Homes, Inc. Fastener stud for accommodation of drywall to inner wall and ceiling surfaces. 4,674,242, 6-23-87, Cl. 52-91.000.

Oboler, Leonard: *See*—
Dodds, Diego E. F., 4,693,302, Cl. 165-46.000.

Oboshi, Fumio: *See*—
Omori, Shigeru; Watanabe, Masatsugu; and Oboshi, Fumio, 4,655,832, Cl. 106-1.180.
Omori, Shigeru; Watanabe, Masatsugu; and Oboshi, Fumio, 4,714,622, Cl. 427-11.000.

Oboshi, Takamitsu, to Mitsui High-Tec, Inc. Apparatus in the form of a die assembly for building a laminated core. 4,704,184, 11-3-87, Cl. 156-512.000.

Obosu, Charles B., to Heil-Quaker Corporation. Lanced fin condenser for central air conditioner. 4,691,768, 9-8-87, Cl. 165-151.000.

O'Boyle, Dolores; and Hittel, William C., to International Playtex, Inc. Brassiere support element. 4,646,746, 3-3-87, Cl. 128-476.000.

O'Boyle, Dolores: *See*—
Prunesti, James; Bell, William D.; Gannaway, Jane P.; O'Boyle, Dolores; and Tedeschi, Anthony, 4,701,964, Cl. 2-406.000.

O'Boyle, Matthew, to Windsor Medical, Inc. Multiple re-entry implantable septum and method of using same. 4,634,424, 1-6-87, Cl. 604-51.000.

Oboza, Andrew J., to Zenith Electronics Corporation. Cam biased pivoting door. 4,658,547, 4-21-87, Cl. 49-386.000.

Obrecht, Georges; and Dreuilhe, Claude, to Alsthom. Azimuth measuring method for non-vertical drilling. 4,637,480, 1-20-87, Cl. 175-45.000.

Obrecht, Georges, to Alsthom. Drilling string for drilling a bent bore, a method of using said string, and a bending device used in said string. 4,694,914, 9-22-87, Cl. 175-61.000.

Obremski, Robert J.: *See*—
Chipman, Russell A.; Obremski, Robert J.; and Brown, Christopher W., 4,660,151, Cl. 364-498.000.

Obrestad, Torstein: *See*—
Kjohl, Olav; Obrestad, Torstein; and Groland, Hans, 4,713,108, Cl. 71-32.000.

O'Brien, Ann N. One piece brief with hook and pile closures. 4,675,918, 6-30-87, Cl. 2-402.000.

O'Brien, David P., to Celanese Corporation. Low wear polyacetal with antistatic properties. 4,647,609, 3-3-87, Cl. 524-267.000.

O'Brien, Dennis: *See*—
Myers, Donald W.; and O'Brien, Dennis, 4,657,715, Cl. 264-45.500.

O'Brien, Edward J.; Emory, Lyle; and Vidusek, Daniel A., to Spraying Systems Co. Whirl spray nozzle. 4,664,314, 5-12-87, Cl. 239-469.000.

O'Brien, Edwin L., to Hughes Aircraft Company. Multiple range interval clutter cancellation circuit. 4,688,044, 8-18-87, Cl. 342-160.000.

O'Brien, Edwin L.: *See*—
Lang, Arthur D.; Moorehouse, James R.; and O'Brien, Edwin L., 4,647,884, Cl. 333-248.000.

O'Brien, Errol C.; Placko, Martin; and Breneman, Wayne, to J-B Industrial Corporation. Precipitator cleaning tool for fossil burning installation. 4,646,769, 3-3-87, Cl. 134-199.000.

O'Brien, Gerald A., to General Motors Corporation. Method of manufacturing tri-pot universal joint housings. 4,694,676, 9-22-87, Cl. 72-348.000.

O'Brien, Gerard T. Reduction of bacteria count on poultry being processed into food at a poultry processing plant. 4,683,618, 8-4-87, Cl. 17-51.000.

O'Brien, James A. Variable support cushion for supporting anatomical body weight. 4,644,593, 2-24-87, Cl. 5-60.000.

O'Brien, Jay P.: *See*—
Mohacsi, Erno; and O'Brien, Jay P., 4,640,930, Cl. 514-431.000.
Mohacsi, Erno; and O'Brien, Jay P., 4,652,561, Cl. 514-211.000.

O'Brien, John A., Jr.; and Hutson, James H., to Outboard Marine Corporation. Feed roll tensioning device. 4,643,236, 2-17-87, Cl. 144-208.00E.
O'Brien, John A., Jr.; and Hutson, James H. Tool tensioning device for debarking machine. 4,673,012, 6-16-87, Cl. 144-208.00E.
O'Brien, John D.; Baker, Stephen M.; and Davidson, Douglas G., to O'Brien, John D. Line reel mower. 4,653,255, 3-31-87, Cl. 56-249.000.
O'Brien, John F., to Xerox Corporation. Color printing machine. 4,660,059, 4-21-87, Cl. 346-157.000.
O'Brien, John K., to Colorgen, Inc. Methods for determining the proper coloring for a tooth replica. 4,654,794, 3-31-87, Cl. 364-413.000.
O'Brien, John V.; Holmes, Arthur S.; and Hopewell, Richard B., to Koch Process Systems, Inc. Process for the separation of landfill gas. 4,681,612, 7-21-87, Cl. 62-23.000.
O'Brien, Joseph R.: *See*—
Moore, Rogers A.; O'Brien, Joseph R.; and Brown, David O., 4,656,313, Cl. 174-35.00R.
O'Brien, Judy K.: *See*—
Friend, Beverly A.; Gierhart, Dennis L.; and O'Brien, Judy K., 4,642,236, Cl. 426-44.000.
O'Brien, Kathleen F.: *See*—
Norman, Seth I.; and O'Brien, Kathleen F., 4,666,721, Cl. 426-271.000.
O'Brien, Lawrence B., to Triune Automated Painting Systems. Paint roller and hose caddy assembly. 4,700,830, 10-20-87, Cl. 206-229.000.
O'Brien, Lawrence E.: *See*—
Copland, Donald S.; Halstead, Larry D.; and O'Brien, Lawrence E., 4,684,025, Cl. 206-484.000.
O'Brien, Mary C.: *See*—
Newell, Darrel E.; and O'Brien, Mary C., 4,716,344, Cl. 315-312.000.
O'Brien, Michael J.: *See*—
Ramsey, Douglas P.; and O'Brien, Michael J., 4,712,794, Cl. 220-254.000.
Tracy, David H.; O'Brien, Michael J.; and Bohler, Walter, 4,640,627, Cl. 374-121.000.
O'Brien, Patrick J.: *See*—
Desmond, John D.; and O'Brien, Patrick J., 4,650,078, Cl. 206-626.000.
O'Brien, Paul, to O.B.I. Co. Pre-pack product display system with support fixture. 4,671,417, 6-9-87, Cl. 211-59.100.
O'Brien, Robert E.: *See*—
Lee, Duk H.; Feierberg, Susan; and O'Brien, Robert E., 4,645,618, Cl. 252-301.170.
O'Brien, Rory M.: *See*—
Ireland, Eric; O'Brien, Rory M.; Wall, Barrie; Hicks, Peter A. R.; and Zaremba, Zbigniew, 4,665,625, Cl. 33-530.000.
O'Brien, Stephen: *See*—
Bicknell, John; and O'Brien, Stephen, 4,678,990, Cl. 324-158.0MG.
O'Brien, T. B.: *See*—
Reichman, James M.; McDonald, Michael C.; and O'Brien, T. B., 4,691,790, Cl. 175-67.000.
O'Brien, Terrence X.; and McKennie, Dale E. Concrete grade crossing system. 4,641,779, 2-10-87, Cl. 238-7.000.
O'Brien, Thomas E., Jr., to General Instrument Corporation. Method and apparatus for polling subscriber terminals. 4,689,619, 8-25-87, Cl. 340-825.080.
O'Brien, Thomas G.; Pegg, Anthony E.; and Herlyn, Meehard, to Wistar Institute of Anatomy and Biology, The; and Research Corporation, a part interest. Monoclonal anti-ornithine decarboxylase antibody and method of producing same. 4,637,984, 1-20-87, Cl. 435-240.000.
O'Brien, Thomas P., to Kabushiki Kaisha Toshiba. Gimballed three-dimensional display system. 4,639,081, 1-27-87, Cl. 350-144.000.
O'Brien, Thomas P.; and Bernardi, Richard T., to Kabushiki Kaisha Toshiba. CT X-ray collimator including a reinforced collimator blade assembly. 4,679,221, 7-7-87, Cl. 378-148.000.
O'Brien, William D., Jr. Boat launching apparatus. 4,681,334, 7-21-87, Cl. 280-414.100.
O'Brien, William L.: *See*—
Mertz, William J.; and O'Brien, William L., 4,689,429, Cl. 560-199.000.
Mertz, William J.; and O'Brien, William L., 4,698,383, Cl. 524-314.000.
Obrig, Tom G. Immunoaffinity purification of phytolaccin proteins and their use in treating Herpes Simplex virus type II. 4,672,053, 6-9-87, Cl. 514-2.000.
Obrist, Albert; Bartl, Franz T.; and Geisinger, Klaus, to Crown Obrist AG. Closure cap of plastic material. 4,664,279, 5-12-87, Cl. 215-252.000.
Obrist, Gerhard, to Aerosol-Service AG. Dispensing container for highly viscous package component and explusion device for the container. 4,671,431, 6-9-87, Cl. 222-327.000.
Obrist, Gerhard, to Sterling Drug, Inc. Two-compartment dosing package. 4,673,107, 6-16-87, Cl. 222-94.000.
Obst, Brian W.: *See*—
Watt, Robert J.; Obst, Brian W.; and Skinner, Raymond N., 4,666,391, Cl. 425-122.000.
Obst, Donald L., to Siecor Corporation. Motion dampening compensating elevator cable. 4,664,229, 5-12-87, Cl. 187-1.00R.
Obst, Donald L.: *See*—
Frey, Rodney R.; and Obst, Donald L., 4,667,896, Cl. 242-118.410.
Obu, Makoto: *See*—
Yano, Hidetoshi; Seimiya, Ryubun; Tarumi, Noriyoshi; Demizu, Hiromi; and Obu, Makoto, 4,696,255, Cl. 118-653.000.
Obuchi, Fukashi, Ruriko Obuchi, legal representatives: *See*—
Ugawa, Satoru; and Obuchi, Satoshi, deceased, 4,669,221, Cl. 49-352.000.
Ugawa, Satoru; and Obuchi, Satoshi, deceased, 4,680,892, Cl. 49-374.000.
Ujihara, Hiroshi; Nishijima, Hirotaka; Ugawa, Satoru; Kinoshita, Tomotaka; and Obushi, Satoshi, deceased, 4,669,222, Cl. 49-374.000.
Obuchi, Satoshi, deceased: *See*—
Ugawa, Satoru; and Obuchi, Satoshi, deceased, 4,669,221, Cl. 49-352.000.
Ugawa, Satoru; and Obuchi, Satoshi, deceased, 4,680,892, Cl. 49-374.000.
Obuchi, Tomoki: *See*—
Yamawaki, Seiichi; Obuchi, Tomoki; Toyama, Noboru; and Shogen, Kazuyoshi, 4,673,905, Cl. 333-239.000.
Obushi, Satoshi, deceased: *See*—
Ujihara, Hiroshi; Nishijima, Hirotaka; Ugawa, Satoru; Kinoshita, Tomotaka; and Obushi, Satoshi, deceased, 4,669,222, Cl. 49-374.000.
O'Callaghan, Patrick; and Murton, Henry R., to Imperial Chemical Industries PLC. Liquid dye preparations anionic dyes and polyalkylene-oxy naphthalene derivatives. 4,702,743, 10-27-87, Cl. 8-527.000.
Occelli, Mario L.; and Kennedy, James V., to Gulf Research & Development Company. Process for cracking high metals content feedstocks. 4,650,564, 3-17-87, Cl. 208-113.000.
Occelli, Mario L., to Union Oil Company of California. Process for the catalytic cracking of nitrogen-containing feedstocks. 4,708,786, 11-24-87, Cl. 208-120.000.
Occhini, Elio; and Bianchi, Giuseppe, to Societa Cavi Pirelli, S.p.A. Underwater optical fiber cable with segmented protective tube. 4,690,497, 9-1-87, Cl. 350-96.230.
Occidental Chemical Agricultural Products, Inc.: *See*—
Chemtob, Elie; and Beer, Gary L., 4,636,372, Cl. 423-312.000.
Dugger, Michael N.; and Hampton, Jack S., 4,651,817, Cl. 165-86.000.
Occidental Chemical Corporation: *See*—
Cotter, Byron R.; Lin, Henry C.; and Pawlak, Joseph A., 4,709,056, Cl. 549-246.000.
Dannels, Bobby F., 4,691,065, Cl. 570-139.000.
Geering, Emil J., 4,649,209, Cl. 558-46.000.
Geering, Emil J.; and Grano, Frank J., 4,712,711, Cl. 220-457.000.
Markezich, Ronald L., 4,707,506, Cl. 524-89.000.
Ng, Johny S., 4,691,067, Cl. 570-153.000.
Schwartz, Willis T.; and Pawlak, Joseph A., 4,697,023, Cl. 549-241.000.
Tang, David Y.; Cotter, Byron R.; and Goetz, Fredrick J., 4,704,483, Cl. 568-937.000.
Walker, Leigh E., 4,661,549, Cl. 524-397.000.
Warzawski, Bernard; and Fauvel, Pierre, 4,640,876, Cl. 429-37.000.
Zimberg, Walter M., 4,689,154, Cl. 210-667.000.
Occidental Electrochemical Corporation: *See*—
Rowe, Edward A., Jr., 4,697,043, Cl. 174-17.0LF.
Occidental Petroleum Corporation? *See*—
Prasad, Rama R. S.; and Frankiewicz, Theodore C., 4,646,771, Cl. 137-13.000.
Occidental Research Corporation: *See*—
Hard, Robert A.; and Megy, Joseph A., 4,655,825, Cl. 75-0.50B.
Megy, Joseph A., 4,668,286, Cl. 75-84.000.
Oce-Nederland B.V.: *See*—
Bouwens, Jan M. M.; and Schiffelers, Hendrik E. P., 4,637,598, Cl. 271-3.100.
Bouwens, Jan M. M.; Hooghiemstra, Ferdinand M. H. F.; and Van Rutten, Leonardus, 4,664,368, Cl. 271-209.000.
Brugman, Wilhelmus T. J., 4,648,703, Cl. 355-3.00R.
Couwenberg, Franciscus A. C. M.; Groenenberg, Cornelis J.; and Wetjens, Antonius C. S., 4,716,440, Cl. 355-14.0SH.
Geurts, Petrus A. M., 4,711,444, Cl. 271-290.000.
Giezeman, Paulus G.; and Romualdus Ter Horst, Gerhardus E., 4,713,674, Cl. 355-14.0SH.
Hermkens, Gerardus A. J.; and Lambregts, Augustinus W. M., 4,660,824, Cl. 271-208.000.
Hermkens, Gerardus A. J., 4,688,931, Cl. 355-3.0SH.
Holtman, Lodewijk T., 4,640,409, Cl. 198-624.000.
Huntjens, Joseph M. J. E.; Kockelmans, Henricus G. J. M.; and Pleyers, Jozef J. A., 4,705,388, Cl. 355-15.000.
Orbons, Wilhelmus H. M., 4,693,585, Cl. 355-3.0FU.
Peeters, Hendrikus W. J.; van Kuringen, Hendricus M. J. C.; and Hoeymakers, Gerardus M., 4,705,391, Cl. 355-77.000.
Pothast, Lambertus A.; Grootentraast, Johannes P.; and Verdonschot, Joannes F. J., 4,711,562, Cl. 355-16.000.
Reinten, Hans, 4,712,116, Cl. 346-107.00R.
Rongen, Josephus W.; and van Cooten, Robertus, 4,641,950, Cl. 355-3.00R.
Roodbeen, Leonardus F. H., 4,711,549, Cl. 355-3.0FU.
Simons, Petrus A. M. R.; and Bouts, Wilhelmus J., 4,640,879, Cl. 430-96.000.
Stakenborg, Addy G. F.; Heynen, Andreas T.; and Henderick, Gerardus J. M., 4,674,864, Cl. 355-14.00R.
van Cooten, Robertus; Simons, Dick; Witteveen, Bontko; Draai, Willem T.; van Stiphout, Johannes G. V.; and Huijben, Martinus J., 4,704,621, Cl. 346-153.100.
Wijnen, Peter J. A., 4,714,176, Cl. 222-51.000.
Winthaegen, Leon M. W.; and Schipper, Georgius H., 4,657,37[illegible], Cl. 355-3.00R.

Ocean Cable Co., Ltd.: *See*—
Ishihara, Koushi; Murakami, Yasuji; Yoshizawa, Nobuyuki; and Funaki, Kiyoshi, 4,684,213, Cl. 350-96.230.
Ocean Ecology Ltd.: *See*—
Koblanski, John N., 4,669,972, Cl. 431-2.000.
Ocean Engineering Systems, Pty., Ltd. *See*—
Lincoln, John B., 4,714,378, Cl. 405-163.000.
Ocean Technology, Inc.: *See*—
Carpenter, John C., 4,642,533, Cl. 315-408.000.
Ocean Ventures-1: *See*—
Cook, Harry L., 4,658,757, Cl. 119-3.000.
Oceanlease, Limited: *See*—
Moench, Hans, 4,662,024, Cl. 15-230.190.
Ocenasek, Josef: *See*—
Lisco, Richard J.; and Ocenasek, Josef, 4,677,632, Cl. 372-38.000.
Ochab, Douglas C. Weight lifting safety device. 4,711,449, 12-8-87, Cl. 272/123.000.
Ochi, Atsushi: *See*—
Utsumi, Kazuaki; Ochi, Atsushi; Suzuki, Masanori; and Midorikawa, Mitsuhiro, 4,681,667, Cl. 204-15.000.
Ochi, Hiroshi; Tetsutani, Nobuji; Yamamoto, Tetsuji; Kitani, Shigehisa; and Watanabe, Asao, to Nippon Telegraph and Telephone Corporation and Canon Kabushiki Kaisha. Image processing system. 4,698,688, 10-6-87, Cl. 358-257.000.
Ochi, Katsura: *See*—
Yoshida, Tatsuro; Shimasaki, Hidematsu; Minamizono, Takahisa; and Ochi, Katsura, 4,670,490, Cl. 524-115.000.
Ochi, Kiyoshige: Hinohara, Yoshikazu; and Matsunaga, Isao, to Chugai Seiyaku Kabushiki Kaisha. Pentaerythritol derivative. 4,650,888, 3-17-87, Cl. 556-177.000.
Ochi, Kiyoshige: *See*—
Miyamoto, Katsuhito; Kubodera, Noboru; Ochi, Kiyoshige; Matsunaga, Isao; and Murayama, Eigoro, 4,666,634, Cl. 260-397.200.
Ochi, Shigeharu, to Fuji Photo Film Co., Ltd. Photoelectric sensor array support package. 4,644,390, 2-17-87, Cl. 358-50.000.
Ochi, Shigeki: *See*—
Doi, Yoshihiko; Kuroishi, Nobuhito; Ochi, Shigeki; and Uenishi, Noboru, 4,710,345, Cl. 419-28.000.
Ochi, Shuhei: *See*—
Akura, Yoshinori; Tsuji, Eiji; Okuyama, Kenji; and Ochi, Shuhei, 4,641,010, Cl. 219-222.000.
Fushima, Nobuichi; Nakano, Hideharu; and Ochi, Shuhei, 4,687,906, Cl. 219-364.000.
Ochi, Yoshiharu: *See*—
Hiraishi, Yasuhisa; Fujita, Takashi; Ochi, Yoshiharu; Hirose, Masahiko; Ichihara, Katsutarou; and Ishigami, Takashi, 4,634,635, Cl. 428-446.000.
Ochi, Yoshinori: *See*—
Ikehiji, Masaharu; Ochi, Yoshinori; Miyake, Atsushi; Noguchi, Junichi; and Matsuo, Ichiro, 4,696,713, Cl. 156-358.000.
Ochi, Yoshiyuki: *See*—
Kato, Mitsuru; Kido, Tomoyuki; and Ochi, Yoshiyuki, 4,680,239, Cl. 428-688.000.
Ochi, Chiaki: *See*—
Nakamura, Kaoru; Sakata, Shinji; Ochiai, Chiaki; Furuta, Yoichi; and Tsubouchi, Kaoru, 4,707,989, Cl. 60-589.000.
Ochiai, Hajime; Morihara, Kenji; and Honma, Hidetoshi, to Mitsubishi Denki Kabushiki Kaisha. Automatic vehicle testing apparatus. 4,656,586, 4-7-87, Cl. 364-424.000.
Ochiai, Hajime; and Morihara, Kenji, to Mitsubishi Denki Kabushiki Kaisha. Light transmission system for trains. 4,682,144, 7-21-87, Cl. 340-448.000.
Ochiai, Hajime; and Morihara, Kenji, to Mitsubishi Denki Kabushiki Kaisha. Car data transmission device for optical fibers. 4,688,266, 8-18-87, Cl. 455-612.000.
Ochiai, Hideo; Shigihara, Akira; and Ohyama, Takashi, to Honda Giken Kogyo Kabushiki Kaisha. Cooler for a belt type stageless transmission. 4,671,782, 6-9-87, Cl. 474-93.000.
Ochiai, Hideo: *See*—
Tanaka, Kunihiko; Ochiai, Hideo; and Ikenoya, Yasuo, 4,671,781, 6-9-87, Cl. 474-93.000.
Ochiai, Hitoshi, to Seiko Instruments & Electronics Ltd. Power source circuit. 4,709,200, 11-24-87, Cl. 320-1.000.
Ochiai, Izumi; and Kurosawa, Hiroshi, to Hitachi, Ltd. Parabola antenna having increased mechanical strength. 4,689,637, 8-25-87, Cl. 343/914.000.
Ochiai, Izumi: *See*—
Kurosawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiko; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, 4,698,904, Cl. 29-726.000.
Ochiai, Kazuo: *See*—
Deguchi, Takashi; and Ochiai, Kazuo, 4,670,903, Cl. 379-411.000.
Ochiai, Kensuke: *See*—
Ochiai, Hisao; Ochiai, Kensuke; and Niisato, Takeshi, 4,679,718, Cl. 223-48.000.
Ochiai, Kiyoshi: *See*—
Tsuboe, Haruo; Ochiai, Kiyoshi; Fukumoto, Tetsuhiro; and Takeuchi, Akihiro, 4,703,788, Cl. 152-209.00R.
Ochiai, Kumi; Horie, Hiromichi; Arima, Itsuo; Morita, Mikio; and Nishihara, Hisato, to Kabushiki Kaisha Toshiba. Magnetic core and insertion thereof. 4,696,725, 9-29-87, Cl. 252-62.540.
Ochiai, Masanobu: *See*—
Ochiai, Norio; Yanagishima, Fumiya; Kaihara, Toshikazu; Kishida, Akira; Sato, Kuniaki; and Ochiai, Masanobu, 4,713,154, Cl. 156-345.00R.
Ochiai, Michihiko; Okada, Taiti; Aki, Osami; Morimoto, Akira; Kawakita, Kenji; and Matsushita, Yoshihiro, to Takeda Chemical Industries, Ltd. Thiazolylacetamido cephalosporin compounds. 4,668,783, 5-26-87, Cl. 540-222.000.
Ochiai, Michihiko; Morimoto, Akira; and Matsushita, Yoshihiro, to Takeda Chemical Industries, Ltd. Esters of 7-[2-(2-aminothiazol-4-yl)-2-(syn)-methoxyiminoacetamido]-3-methyl-ceph-3-em-4-carboxylic acid. 4,680,390, 7-14-87, Cl. 540-228.000.
Ochiai, Michihiko; Kishimoto, Shoji; and Matsuo, Taisuke; deceased (by Matsuo, Michiko, legal representative), to Takeda Chemical Industries, Ltd. 4-Cyano-2-azetidinones and production thereof. 4,684,724, 8-4-87, Cl. 540-355.000.
Ochiai, Michihiko: *See*—
Kishimoto, Shoji; Matsuo, Taisuke; and Ochiai, Michihiko, 4,665,067, Cl. 514-210.000.
Matsuo, Taisuke, deceased; Ochiai, Michihiko; and Kishimoto, Shoji, 4,673,739, Cl. 540-355.000.
Matsuo, Taisuke, deceased; Ochiai, Michihiko; and Kishimoto, Shoji, 4,675,397, Cl. 540-355.000.
Ochiai, Michio; and Sagitani, Hiromichi, to Pola Chemical Industries, Inc. Polyglycerol compounds and cosmetic products containing the same. 4,636,525, 1-13-87, Cl. 514-786.000.
Ochiai, Satoru: *See*—
Kuroki, Akira; and Ochiai, Satoru, 4,675,815, Cl. 379-37.000.
Ochiai, Takashi: *See*—
Inoue, Ichizo; Oine, Toyonari; Yamada, Yoshihisa; Ishida, Ryuichi; and Ochiai, Takashi, 4,714,702, Cl. 514-259.000.
Ochiai, Takeji, to Fuji Photo Film Co., Ltd. Radiation image storage panel. 4,654,534, 3-31-87, Cl. 250-484.100.
Ochiai, Takeji; Ohara, Shinichiro; and Yabe, Masao, to Fuji Photo Film Co., Ltd. Glass based laser recording material with intermediate layer. 4,663,276, 5-5-87, Cl. 430-272.000.
Ochiai, Takeshi: *See*—
Mizuno, Yoshikazu; Gonda, Katsumi; Ikuma, Akira; and Ochiai, Takeshi, 4,650,020, Cl. 180-176.000.
Ochiai, Tameichi: *See*—
Miura, Konoe; Nagasaka, Hideki; Takahashi, Noriaki; Ochiai, Tameichi; and Takasaki, Ryuichiro, 4,650,741, Cl. 430-192.000.
Ochiai, Tooru: *See*—
Ito, Yoshihiro; and Ochiai, Tooru, 4,649,640, Cl. 29-605.000.
Ochiai, Toshio; Tsujimura, Akio; and Tsukiyasu, Hiroshi, to Toyo Seikan Kaisha, Ltd.; and Komatsu Forklift Kabushiki Kaisha. Loading and unloading apparatus. 4,710,091, 12-1-87, Cl. 414-623.000.
Ochiai, Yoshitaka: *See*—
Hayakawa, Masatoshi; Aso, Koichi; Ochiai, Yoshitaka; Matsuda, Hideki; Hayashi, Kazuhiko; Ishikawa, Wataru; and Iwasaki, You, 4,707,417, Cl. 428-630.000.
Hayashi, Kazuhiko; Ochiai, Yoshitaka; Hayakawa, Masatoshi; Matsuda, Hideki; Ishikawa, Wataru; Iwasaki, You; and Aso, Koichi, 4,640,871, Cl. 428-611.000.
Makino, Yoshimi; Ochiai, Yoshitaka; Uedaira, Satoru; Hotai, Kazuhide; Aso, Koichi; and Hayakawa, Masatoshi, 4,639,278, Cl. 148-108.000.
Ochii, Kiyofumi, to Kabushiki Kaisha Toshiba. Method of manufacturing semiconductor device. 4,661,202, 4-28-87, Cl. 156-643.000.
Ochii, Kiyofumi: *See*—
Iwahashi, Hiroshi; and Ochii, Kiyofumi, 4,639,895, Cl. 365-200.000.
Masuoka, Fujio; and Ochii, Kiyofumi, 4,710,897, Cl. 365-182.000.
Yasuda, Hiroshi; Ochii, Kiyofumi; and Masuoka, Fujio, 4,687,954, Cl. 307-279.000.
Ochoa, Carlos G.; Aguilar, German C.; and Westlund, Arnold E., Jr. Electric lamp and method of making. 4,703,221, 10-27-87, Cl. 313-332.000.
Ochoa, Ellen: *See*—
Goodman, Joseph W.; Hesselink, Lambertus; and Ochoa, Ellen, 4,674,824, Cl. 350-3.640.
Ochrymowycz, Leo A.: *See*—
Dokkestul, Jeffrey L.; and Ochrymowycz, Leo A., 4,664,956, Cl. 428-22.000.
Ochs, Garroid W., to Westinghouse Electric Corp. Power line communications terminal and interface circuit associated therewith. 4,636,771, 1-13-87, Cl. 340-310.0CP.
Ochs, Heinrich: *See*—
Emrich, Helmut; Mathes, Josef; Ochs, Heinrich; and Despot, Janko, 4,711,173, Cl. 101-349.000.
Ochs, Jean. Sandwich-filling apparatus. 4,703,688, 11-3-87, Cl. 99-450.800.
Ochs, Leonard R., to Duval Corporation. Hydrometallurgical process for copper recovery. 4,634,467, 1-6-87, Cl. 75-117.000.
Ochsner, Hans W., to General Motors Corporation. Valve guide seal device. 4,706,967, 11-17-87, Cl. 277-33.000.
Ochsner, Paul A., to Givaudan Corporation. Phenyl-aliphatic oximes as odorants. 4,654,169, 3-31-87, Cl. 252-522.00R.
Ochsner, Paul A., to Givaudan Corporation. Fragrance compositions containing benzyl ethers. 4,657,700, 4-14-87, Cl. 252-522.00R.
Ochsner, Paul A., to Givaudan Corporation. Novel derivatives of 6-hydroxyhexanoates as fragrance ingredients. 4,668,433, 5-26-87, Cl. 252-522.00R.
Ochsner, Rolf H., to Robertshaw Controls Company. Differential pressure operated electrical switch construction and method of making the same. 4,637,131, 1-20-87, Cl. 29-622.000.
Ochsner, Rolf H.; and Everett, Charles J., to Robertshaw Controls Company. Differential pressure operated electrical switch construction and method of making the same. 4,697,054, 9-29-87, Cl. 200-82.00R.

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Everett, Charles J.; and Ochsner, Rolf H., 4,695,829, Cl. 340-586.000.

Ockelmann, Dieter: *See*—
Franke, Gunter; Ockelmann, Dieter; Raue, Roderich; and Wild, Peter, 4,710,569, Cl. 544-31.000.
Groll, Manfred; and Ockelmann, Dieter, 4,647,409, Cl. 540-134.000.

Ockels, Wubbo: *See*—
Heinz, Stoewer; and Ockels, Wubbo, 4,641,386, Cl. 5-413.000.

Ocken, Alfred G.; and Nordbrock, Raymond E., to Motorola, Inc. Semi enclosed alternator. 4,710,657, 12-1-87, Cl. 310-62.000.

Ockert, Carl E.: *See*—
Claytor, Thomas N.; Ockert, Carl E.; and Randall, Richard, 4,696,191, Cl. 73-600.000.

Ockleford, Colin D.: *See*—
Stephen, Richard O.; and Ockleford, Colin D., 4,652,093, Cl. 350-500.000.

Ockman, Stuart. Project construction with depiction means and methods. 4,700,318, 10-13-87, Cl. 364-518.000.

Ockuly, John D.: *See*—
Caflisch, Jerry A.; and Ockuly, John D., 4,693,014, Cl. 34-23.000.

O'Connell, Bonnie. Glove-like dynamic splint and method of using same. 4,709,694, 12-1-87, Cl. 128-87.00A.

O'Connell, Harold, Sr. Smoke filtering material. 4,641,666, 2-10-87, Cl. 131-341.000.

O'Connell, J. Garland: *See*—
Gershman, Russell J.; Hoffman, Robert A.; and O'Connell, J. Garland, 4,665,553, Cl. 382-6.000.

O'Connell, James P.; Hoke, Randal A.; and Mize, Patrick D., to Becton, Dickinson and Company. Immunoassay using complement. 4,693,970, 9-15-87, Cl. 435-7.000.

O'Connell, James P.; Piran, Uri; and Wagner, Daniel B., to Becton Dickinson and Company. Sac or liposome containing dye (sulforhodamine) for immunoassay. 4,695,554, 9-22-87, Cl. 436-528.000.

O'Connell, James P.: *See*—
Campbell, Robert L.; Wagner, Daniel B.; and O'Connell, James P., 4,703,017, Cl. 436-501.000.

O'Connell, Robert T.; and Arywitz, Martin, to Graver Company, The. Hot process liquid treatment method and apparatus. 4,663,054, 5-5-87, Cl. 210-713.000.

O'Connell, Timothy B., to Tuthill Corporation. Ball joint assembly. 4,666,330, 5-19-87, Cl. 403-143.000.

O'Connor, Chadwell. Fuel mixer and burner. 4,635,566, 1-13-87, Cl. 110-106.000.

O'Connor, Chadwell, to Westinghouse Electric Corp. Secondary grate for rotary combustor. 4,699,070, 10-13-87, Cl. 110-246.000.

O'Connor, Dermot J., to Data Recording Instrument Company Limited. Bush securing mechanism. 4,685,172, 8-11-87, Cl. 16-2.000.

O'Connor, James E., to Phillips Petroleum Company. Reinforced plastic. 4,680,224, 7-14-87, Cl. 428-294.000.

O'Connor, James E.: *See*—
Johnson, Timothy W.; Beever, William H.; O'Connor, James E.; and Blackwell, Jennings P., 4,690,972, Cl. 524-609.000.

O'Connor, James J.; Lang, Theodore B.; and Miller, Peggy H., to Kimberly-Clark Corporation. Crinkled, quilted absorbent pad. 4,650,481, 3-17-87, Cl. 604-380.000.

O'Connor, James J.: *See*—
Damico, Joyce A.; Weber, Rebecca J.; and O'Connor, James J., 4,668,230, Cl. 604-385.00A.

O'Connor, John J.: *See*—
Garritano, Ronald F.; O'Connor, John J.; and Papayanopulos, Manuel E., 4,640,120, Cl. 73-12.000.

O'Connor, Joseph G.: *See*—
Rourke, John K.; and O'Connor, Joseph G., 4,701,397, Cl. 430-138.000.

O'Connor, Kevin J., to American Telephone and Telegraph Company; and AT&T Bell Laboratories. Dual port complementary memory. 4,660,177, 4-21-87, Cl. 365-189.000.

O'Connor, Michael; Jackson, Randall L.; and Marple, David P., to GTE Government Systems Corporation. Noise threshold estimator for multichannel signal processing. 4,635,217, 1-6-87, Cl. 364-574.000.

O'Connor, Michael; Jackson, Randall L.; and Marple, David P., to GTE Government Systems Corporation. Noise threshold estimating method for multichannel signal processing. 4,646,254, 2-21-87, Cl. 364-574.000.

O'Connor, Robert F.: *See*—
Kirk, Kenneth L.; and O'Connor, Robert F., 4,688,694, Cl. 220-89.00A.

O'Connor, Robert G., to General Electric Co. Euro connector with space arrangement to permit mounting of male and female connectors. 4,698,029, 10-6-87, Cl. 439-532.000.

O'Connor, Robert J., to American Telephone and Telegraph Company; and AT&T Information Systems, Inc. Spring contact structure. 4,688,875, 8-25-87, Cl. 439-676.000.

O'Connor, Rodney J.: *See*—
Snedeker, Munson R.; and O'Connor, Rodney J., 4,688,959, Cl. 401-283.000.

O'Connor, Roger J.; and Lane, Keith A., to Hughes Aircraft Company. Rapid frequency-hopping time synchronization. 4,677,617, 6-30-87, Cl. 370-100.000.

O'Connor, Stuart; Bell, Donald; Fox, Trevor R.; and Townsend, Paul, to International Computers Limited. Data transmission system of the star type with enablement passing. 4,716,408, 12-29-87, Cl. 340-825.500.

O'Connor, William H.: *See*—
House, Lawrence E., II; and O'Connor, William H., 4,677,362, Cl. 320-2.000.

Ocor Products Corporation: *See*—
Roessiger, Claude, 4,691,368, Cl. 383-10.000.

Octrooibureau Zuid: *See*—
Cadee, Theodorus P. M.; Van der Veen, Siebren C.; and Fluks, Marten, 4,685,353, Cl. 74-689.000.

Oculus Contact Lens Company: *See*—
Falcetta, Joseph J.; and Kunzler, Wilhelm F., 4,645,811, Cl. 526-279.000.

Oculus Optikgeraete GmbH: *See*—
Kirchhuebel, Rainer, 4,685,784, Cl. 351-226.000.
Spitznas, Manfred; Reiner, Josef; Veit, Wolfgang; and Kirchhuebel, Rainer, 4,710,000, Cl. 350-516.000.

Ocvirk, Norbert: *See*—
Belart, Juan; Seibert, Wolfram; and Ocvirk, Norbert, 4,703,978, Cl. 303-52.000.
Belart, Juan; Seibert, Wolfram; and Ocvirk, Norbert, 4,708,405, Cl. 303-114.000.
Seibert, Wolfram; Ocvirk, Norbert; and Schonlau, Juergen, 4,708,404, Cl. 303-114.000.

O'D. Offenhartz, Colin: *See*—
Blanco, Carlos; and Siragusa, Anthony, 4,667,665, Cl. 128-156.000.

Oda, Chikao: *See*—
Murai, Katsumi; Hiratsuka, Kosai; Yoshinaga, Shoji; Nakatsu, Toji; Oda, Chikao; and Fujiwara, Kiyoshi, 4,698,142, Cl. 204-182.300.

Oda, Denichi: *See*—
Yamamoto, Shinji; Kaijiri, Kouhei; Nagakura, Kouichi; Oda, Denichi; Matsumori, Yasuo; and Nakayama, Kimio, 4,703,086, Cl. 525-133.000.

Oda, Eiji, to NEC Corporation. Buried channel charge coupled device. 4,694,476, 9-15-87, Cl. 377-58.000.

Oda, Goro; and Ishida, Haruhiko, to Tokyo Shibaura Denki Kabushiki Kaisha. Image forming apparatus. 4,664,504, 5-12-87, Cl. 355-15.000.

Oda, Hajime: *See*—
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,648,701, Cl. 354-439.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,693,583, Cl. 354-439.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,696,560, Cl. 354-439.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,697,908, Cl. 354-439.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,702,579, Cl. 354-21.000.

Oda, Hideaki: *See*—
Kubota, Hitoshi; and Oda, Hideaki, 4,659,150, Cl. 303-6.00C.
Kubota, Hitoshi; and Oda, Hideaki, 4,664,452, Cl. 303-22.00R.

Oda, Hiroyuki; and Kageyama, Akira, to Mazda Motor Corporation. Spark-ignited internal combustion engine. 4,714,058, 12-22-87, Cl. 123-90.220.

Oda, Hiroyuki; Nagao, Akihito; Misumi, Masanori; Yamashita, Akinori; and Okazaki, Katsumi, to Mazda Motor Corporation. Intake system for internal combustion engine. 4,714,063, 12-22-87, Cl. 123-308.000.

Oda, Hiroyuki: *See*—
Masuda, Shuji; and Oda, Hiroyuki, 4,714,059, Cl. 123-90.230.
Masuda, Shunji; Oda, Hiroyuki; and Morita, Yasuyuki, 4,651,684, Cl. 123-90.160.

Oda, Isao; and Tsuno, Nobuo, to NGK Insulators, Ltd. Metal-ceramic composite article and a method of producing the same. 4,690,617, 9-1-87, Cl. 416-241.00B.

Oda, Isao; and Soma, Takao, to NGK Insulators, Ltd. Silicon nitride sintered body and manufacturing method thereof. 4,692,420, 9-8-87, Cl. 501-97.000.

Oda, Kazuya: *See*—
Kaneko, Kiyotaka; Nakadai, Katsuo; Miyake, Izumi; and Oda, Kazuya, 4,677,506, Cl. 360-77.000.
Miyake, Izumi; Kaneko, Kiyotaka; Nakadai, Katsuo; and Oda, Kazuya, 4,689,700, Cl. 360-77.000.
Miyake, Izumi; Kaneko, Kiyotaka; and Oda, Kazuya, 4,701,813, Cl. 360-71.000.

Oda, Kazuyuki; Yui, Yoshikiyo; Kataoka, Yoshiharu; and Hata, Hideo, to Canon Kabushiki Kaisha. Method and apparatus for automatic focusing. 4,714,331, 12-22-87, Cl. 353-122.000.

Oda, Kazuyuki: *See*—
Uda, Koji; Oda, Kazuyuki; and Ayata, Naoki, 4,669,867, Cl. 355-53.000.

Oda, Kengo: *See*—
Nakatani, Kiyoshi; Numata, Satoshi; Kodaka, Kenji; Oda, Kengo; Shiraishi, Shiro; and Udagawa, Takatoshi, 4,661,501, Cl. 514-345.000.

Oda, Kiyoshi: *See*—
Ishii, Susumu; and Oda, Kiyoshi, 4,667,376, Cl. 24-421.000.
Ishii, Susumu; and Oda, Kiyoshi, 4,679,281, Cl. 24-422.000.

Oda, Koichi; Hatta, Koichi; and Sumitani, Toshihiko, to Sharp Kabushiki Kaisha. Calculator or pocket computer with selectable operational sequence. 4,695,983, 9-22-87, Cl. 364-709.000.

Oda, Koichi: *See*—
Washizuka, Isamu; and Oda, Koichi, 4,651,294, Cl. 364-709.000.

Oda, Koichiro: *See*—
Kimura, Kuniko; Ofuchi, Kunihiko; and Oda, Koichiro, 4,647,394, Cl. 252-117.000.

, Masaki: *See*—
Matsui, Kazumi; Ototoe, Minoru; Takasue, Takashi; Iwasaki, Masami; and Oda, Masaki, 4,665,831, Cl. 104-165.000.
, Masamitsu, to Mazda Motor Corporation. In-mold coating apparatus, 4,647,274, 3-3-87, Cl. 425-135.000.
, Masataka; Yoshiyama, Tsugihito; Myochin, Hisashi; and Matsuda, Kouji, to Minolta Camera Kabushiki Kaisha. Electrophotographic copying machine. 4,688,927, 8-25-87, Cl. 355-3.0TR.
, Minoru; and Oba, Kunio, to Mitsubishi Denki Kabushiki Kaisha. Nuclear reactor power meter. 4,696,789, 9-29-87, Cl. 376-254.000.
, Naonobu: *See*—
Akiyama, Takashi; Hotta, Yasunari; and Oda, Naonobu, 4,701,372, Cl. 428-323.000.
, Nobuo, to Takara Co., Ltd. Rechargeable toy electric vehicle set. 4,636,178, 1-13-87, Cl. 446-462.000.
, Nobutaka: *See*—
Ichihara, Takeo; Watanabe, Shuichi; Futami, Takashi; and Oda, Nobutaka, 4,703,401, Cl. 362-80.000.
, Noriyuki: *See*—
Ando, Takehiro; Kimura, Hideo; Oda, Noriyuki; Asai, Takeji; Mochizuki, Ken; Fujihara, Toshihisa; and Maeda, Katsuji, 4,642,127, Cl. 55-20.000.
, Shunri: *See*—
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isamu, 4,689,093, Cl. 437-5.000.
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isamu, 4,702,934, Cl. 427-39.000.
Ishihara, Shunichi; Ohno, Shigeru; Kanai, Masahiro; Oda, Shunri; and Shimizu, Isamu, 4,716,048, Cl. 427-39.000.
, Takao: *See*—
Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, 4,649,088, Cl. 428-697.000.
Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, 4,673,476, Cl. 204-192.280.
, Takeshi: *See*—
Iruchijima, Shinobu; Kobayashi, Hirohiko; Aoki, Kyoji; Oda, Takeshi; Shinoyama, Masayuki; and Nosaka, Yoshifumi, 4,686,296, Cl. 548-544.000.
, Tatsuharu: *See*—
Kanda, Noboru; Yokoyama, Kenzou; Aoki, Ken-ichi; Akita, Shinji; Hatanak.., Masayuki; and Oda, Tatsuharu, 4,711,733, Cl. 252-29.000.
, Toshiaki; and Yotsutani, Akio, to NEC Corporation. Cordless telephone apparatus having means for synchronizing channel scanning of fixed and portable units. 4,656,653, 4-7-87, Cl. 379-61.000.
, Toshinori: *See*—
Goto, Hideo; Hosoe, Takeo; and Oda, Toshinori, 4,656,078, Cl. 428-204.000.
, Yasuhiro: *See*—
Okuzono, Shuichi; Tanaka, Tetsuo; Oda, Yasuhiro; Shintani, Takashi; and Emura, Noriaki, 4,713,083, Cl. 8-557.000.
, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, to Asahi Glass Company Ltd. Ion exchange membrane and electrolytic cell using thereof. 4,652,356, 3-24-87, Cl. 204-253.000.
, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, to Asahi Glass Company, Ltd. Ion exchange membrane cell and electrolysis with use thereof. 4,655,886, 4-7-87, Cl. 204-98.000.
, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, to Asahi Glass Company, Ltd. Process for electrolyzing aqueous solution of alkali metal chloride. 4,655,887, 4-7-87, Cl. 204-98.000.
, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, to Asahi Glass Company, Ltd. Ion exchange membrane cell and electrolysis with use thereof. 4,661,218, 4-28-87, Cl. 204-98.000.
, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, to Asahi Glass Company, Ltd. Ion exchange membrane cell and electrolytic process using thereof. 4,666,574, 5-19-87, Cl. 204-98.000.
, Yoshio; Asawa, Tatsuro; Sato, Kimihiko; and Sajima, Yasuo, to Asahi Glass Company Ltd. Method of installation of membrane to electrolytic cell. 4,686,026, 8-11-87, Cl. 204-252.000.
, Yukihisa: *See*—
Yasuda, Keiji; Oda, Yukihisa; Hamajima, Shigemitsu; Ishii, Masami; Nakanishi, Katsumi; Tsuzuki, Takayoshi; and Tsuda, Jyou, 4,714,804, Cl. 200-11.0DA.
, Yukio: *See*—
Tsujiuchi, Toshio; Shinmura, Yoshinori; and Oda, Yukio, 4,711,054, Cl. 51-165.770.
Odabashian, Robert A.; and Wofford, Benjamin G., to W. R. Grace & Co., Cryovac Div. Taped bag with extended side seals. 4,635,295, 1-6-87, Cl. 383-127.000.
Odachi, Kazuyuki: *See*—
Fuse, Takahiro; Kawamura, Masao; Yamagishi, Koji; Odachi, Kazuyuki; Ono, Haruo; and Kizaki, Masaharu, 4,642,693, Cl. 358-236.000.
Odagaki, Atsushi: *See*—
Yamaoka, Kojiro; Azuma, Toshiro; Sakikawa, Shigenori; Shibata, Jiro; and Odagaki, Atsushi, 4,664,210, Cl. 180-132.000.
Odagawa, Atsuo: *See*—
Otake, Noboru; Tatsuta, Kuniaki; Mizobuchi, Shigeyuki; Komeshima, Nobuyasu; Nakajima, Shohachi; Kawai, Hiroyuki; and Odagawa, Atsuo, 4,710,564, Cl. 536-6.400.
Odagawa, Kazuyoshi, to Canon Kabushiki Kaisha. Easily positionable keyboard. 4,709,128, 11-24-87, Cl. 200-340.000.
Odagiri, Hiroshi; and Nishida, Isamu, to Seiko Instruments & Electronics Ltd. Battery lifetime indicator for a stopwatch. 4,690,568, 9-1-87, Cl. 368-204.000.
Odagiri, Masaru: *See*—
Suzuki, Takashi; Odagiri, Masaru; Kai, Yoshiaki; Kitamaki, Hisayo; and Tomago, Akio, 4,647,507, Cl. 428-421.000.
Odagiri, Nobuyuki; and Tobukuro, Kuniaki, to Director-General of Agency of Industrial Science and Technology. Addition-curable quinoxaline resin oligomer and intermediate material for fiber-reinforced composite. 4,670,536, 6-2-87, Cl. 528-229.000.
Odagiri, Yuichi: *See*—
Terakado, Tomoji; and Odagiri, Yuichi, 4,698,821, Cl. 372-50.000.
Odai Tekko Kabushiki Kaisha: *See*—
Morita, Shuji; Sato, Katsujiro; Asaoka, Yoshio; Harada, Isao; and Hirano, Tomiyasu, 4,644,914, Cl. 123-90.550.
Umemoto, Yonetsugu; Shirasawa, Hiroshi; Ogo, Muneya; Kinoshita, Kazumasa; and Kondo, Tetsuo, 4,690,581, Cl. 403-133.000.
Odaira, Keikichi, to Yojigen Agricultural Corporation. Livestock feed and manufacturing method thereof. 4,711,787, 12-8-87, Cl. 426-31.000.
Odaka, Kentaro; Fukami, Tadashi; and Ozaki, Shinya, to Sony Corporation. Apparatus for recording and/or reproducing digital information signal. 4,646,171, 2-24-87, Cl. 360-32.000.
Odaka, Kentaro, to Sony Corporation. Method and apparatus for recording a digital information signal and tracking pilot signals at different locations in the track. 4,665,447, 5-12-87, Cl. 360-77.000.
Odaka, Kentaro; Fukami, Tadashi; and Ozaki, Shinya, to Sony Corporation. Synchronizing circuit. 4,669,000, 5-26-87, Cl. 360-32.000.
Odaka, Kentaro: *See*—
Fukami, Tadashi; and Odaka, Kentaro, 4,688,225, Cl. 371-37.000.
Sugiki, Hiraku; Odaka, Kentaro; Satake, Tomoji; Ohmori, Takashi; and Yamada, Makoto, 4,656,539, Cl. 360-77.000.
Odaka, Makoto: *See*—
Kunugi, Yoshiro; Odaka, Makoto; Sato, Takeshi; Sasaki, Yoshio; and Tokumo, Akio, 4,644,292, Cl. 330-279.000.
Kunugi, Yoshiro; Tokumo, Akio; Yoshimi, Toshikazu; Kato, Shinjiro; Sasaki, Yoshio; Odaka, Makoto; and Sato, Takeshi, 4,648,117, Cl. 381-86.000.
Odaka, Masanori: *See*—
Ogiue, Katsumi; Suzuki, Yukio; Masuda, Ikuro; Odaka, Masanori; and Uchida, Hideaki, 4,713,796, Cl. 365-189.000.
Uchida, Hideaki; Mitsumoto, Kinya; Yazawa, Yoshiaki; Nakazato, Shinji; and Odaka, Masanori, 4,682,200, Cl. 357-41.000.
Odaka, Yoshiyuki: *See*—
Nishizawa, Masahiro; Miura, Kiyoshi; Sasaya, Osamu; and Odaka, Yoshiyuki, 4,652,462, Cl. 427-53.100.
Odaka, Yukio: *See*—
Kamon, Akio; and Odaka, Yukio, 4,634,933, Cl. 315-151.000.
O'Daly, Jose A., to Ministerio de Sanidad y Asistencia Social Instituto Venezolano de Investigationes Cientificas. Vaccine for Leishmaniasis. 4,687,666, 8-18-87, Cl. 424-88.000.
Odamoto, Katunobu: *See*—
Takeda, Mituo; Odamoto, Katunobu; and Uraki, Keiji, 4,658,298, Cl. 358-254.000.
Takeda, Mituo; Odamoto, Katunobu; and Uraki, Keiji, 4,658,956, Cl. 206-320.000.
Odani, Yusuke; Akechi, Kiyoaki; and Kuroishi, Nobuhito, to Sumitomo Electric Industries, LTD. Aluminum alloy and method for producing the same. 4,702,885, 10-27-87, Cl. 419-23.000.
Odashima, Rou, to Sanshin Kogyo Kabushiki Kaisha; and Yamaha Hatsudoki Kabushiki Kaisha. Separate lubricating system for outboard motors. 4,637,355, 1-20-87, Cl. 123-73.0AD.
Odashima, Takashi, to Tekken Construction Co., Ltd. Automatic fire extinguisher with infrared ray responsive type fire detector. 4,648,462, 3-10-87, Cl. 169-61.000.
Odashima, Takashi, to Tekken Construction Co., Ltd. Automatic fire extinguisher with infrared ray responsive type fire detector. 4,671,362, 6-9-87, Cl. 169-61.000.
Odasima, Suzuo; Hida, Takao; and Mitamura, Mitsuru, to Toshiba Electronic Systems Co., Ltd.; and Toshiba Machine Co., Ltd. Measuring apparatus for optically measuring the thickness of a water film. 4,687,333, 8-18-87, Cl. 356-382.000.
Odawara, Kazuharu, to Kabushiki Kaisha Toshiba. Radiation-sensitive record utilizing an annular ring and projections on the disc as spacers between two adjacent discs. 4,647,948, 3-3-87, Cl. 346-137.000.
Odawara, Kazuharu; and Tago, Yoshiaki, to Kabushiki Kaisha Toshiba. Information storage disk cartridge. 4,665,457, 5-12-87, Cl. 360-133.000.
O'Day, David L.: *See*—
Fleming, Paul D.; and O'Day, David L., 4,671,089, Cl. 70-452.000.
Oddenino, Manrico, to ITW Fastex Italia S.p.A. Device for connecting an upholstery strengthening rod to a seat load-bearing structure. 4,648,735, 3-10-87, Cl. 403-187.000.
Oddenino, Manrico, to ITW Fastex Italia S.p.A. Perfected air inlet. 4,664,022, 5-12-87, Cl. 98-2.000.
Oddenino, Manrico, to Illinois Tool Works Inc. Perfected cap, particularly for motor vehicles. 4,712,703, 12-15-87, Cl. 220-210.000.
Oddou, Jacques: *See*—
Pichot, Jacky; and Oddou, Jacques, 4,696,427, Cl. 236-1.00E.
O'Dea, Kevin J.; and McCooey, David J., to Harris Graphics Corporation. Ink fountain assembly and segmented film metering blade. 4,655,133, 4-7-87, Cl. 101-363.000.
O'Dean, Raymond D.: *See*—
Gilder, Thomas G., Jr.; and O'Dean, Raymond D., 4,653,174, Cl. 29-574.000.
Gilder, Thomas G., Jr.; and O'Dean, Raymond D., 4,663,650, Cl. 357-70.000.
Gilder, Thomas G., Jr.; and O'Dean, Raymond D., 4,663,651, Cl. 357-70.000.

Odebrecht, Wolfgang: *See*—
Grantz, Helmut; and Odebrecht, Wolfgang, 4,691,949, Cl. 292-216.000.

Odeco, Inc.: *See*—
Petty, Terry D.; Costello, Carmon R.; Song, Kun K.; Chabot, Luc G.; Fujita, Tadahiro; Hirose, Haruki; and Yoshimura, Nobutoshi, 4,639,167, Cl. 405-217.000.

Odegaard, Oliver C.: *See*—
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Odeh, Aziz S., to Mobil Oil Corporation. Method for determining consistent oil relative permeability values from dynamic displacement data. 4,638,447, 1-20-87, Cl. 364-556.000.

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Odell, Daniel R. Condensate-free grooming mirror. 4,655,559, 4-7-87, Cl. 350-588.000.

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Belknap, William M.; Chanasyk, Albert J.; O'Dell, Robert R.; and Girard, Donald J., 4,710,871, Cl. 364-200.000.

O'Dell, Robin D.: *See*—
Ungar, Israel S.; O'Neill, Nelson L.; Scher, Herbert I.; and O'Dell, Robin D., 4,713,138, Cl. 156-307.400.

Oden, Kenneth W., to Dixie-Narco. Article vendor with adjustable column transfer provision for accomodating locally-prevalent space-to-sales ratio. 4,705,176, 11-10-87, Cl. 211-59.200.

Odenthal, Conrad J.; Askew, Dennis D.; and Jaqua, Evan W., to Tektronix, Inc. Cathode-ray-tube electrode structure having a particle trap. 4,665,340, 5-12-87, Cl. 313-449.000.

Odenthal, Conrad J.; and McKibben, Barry A., to Tektronix, Inc. CRT astigmatism correction apparatus with stored correction values. 4,672,276, 6-9-87, Cl. 315-382.000.

Odenthal, Heinz F., to OSTMA Maschinenbau GmbH. Method and apparatus for transporting flexible packages, particularly flat bags, filled with pourable or flowable material to container filling stations. 4,676,050, 6-30-87, Cl. 53-447.000.

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Green, Kendell L., 4,657,598, Cl. 134-9.000.

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Vernikov, Arkady Y.; Gamarnik, Iosif I.; Rashkovich, Mikhail P.; Trostanovsky, Boris A.; and Khinkus, Alexandr S., 4,691,183, Cl. 335-289.000.

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Glushko, Mikhail F.; Skalatsky, Viktor K.; and Zakhryamin, Anatoly D., 4,641,492, Cl. 57-9.000.

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Bonnenfant, Yvon; Odet, Philippe; Perne, Raymond; and Thevenot, Claude, 4,679,696, Cl. 215-252.000.

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Blum, Victor; Crabtree, Timothy L.; and Fairchild, Robert G., 4,654,727, Cl. 360-71.000.
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Steele, Bruce L., 4,683,509, Cl. 360-119.000.
Tripp, Robert R.; and Watts, Charles H., 4,658,319, Cl. 360-11.100.

Odgaard, A. Jacob; and Kennedy, John F., to University of Iowa Research Foundation. Vanes for bank protection and sediment control in rivers. 4,711,597, 12-8-87, Cl. 405-25.000.

Odgers, Irving L.: *See*—
Dickinson, Robert W.; Mackey, Charles S.; and Odgers, Irving L., 4,693,327, Cl. 175-61.000.

Odio, Carlos E.: *See*—
le Grand, Ferdinand; and Odio, Carlos E., 4,657,638, Cl. 202-158.000.

Odmark, Anders: *See*—
Forchheimer, Robert; and Odmark, Anders, 4,684,991, Cl. 358-213.110.

Odo, Satoshi; Iida, Tetsuo; Abe, Atsushi; and Tsuchida, Makoto, to Honda Giken Kogyo Kabushiki Kaisha. Soundproof type engine working machine. 4,702,201, 10-27-87, Cl. 123-2.000.

Odobasic, Steven L. Laminated mechanical elements. 4,659,069, 4-21-87, Cl. 267-57.10A.

Odobasic, Steven L.: *See*—
Avila, Jose A.; and Odobasic, Steven L., 4,666,372, Cl. 416-134.00A.

Odohira, Tetsu: *See*—
Tamura, Hisashi; Hirata, Terutaka; Odohira, Tetsu; and Ogawa, Tadahiro, 4,644,798, Cl. 73-708.000.

Odojewski, Stephen S.: *See*—
Rakoczynski, Randolph W.; Odojewski, Stephen S.; and Rolfe, John L., 4,696,599, Cl. 405-129.000.

Odom, Terrance J. Golf glove. 4,665,565, 5-19-87, Cl. 2-161.00A.

O'Donnell & Associates, Inc.: *See*—
Porowski, Jan S., 4,662,434, Cl. 165-69.000.
Porowski, Jan S.; O'Donnell, William J.; Badlani, Manu L.; and Hampton, Edward J., 4,683,014, Cl. 148-131.000.
Porowski, Jan S.; Badlani, Manu L.; O'Donnell, William J.; and Hampton, Edward J., 4,702,880, Cl. 376-305.000.

O'Donnell, Dennis: *See*—
Barrett, Michael; Tattersall, William A.; and O'Donnell, Dennis, 4,660,366, Cl. 57-263.000.

O'Donnell, James J.: *See*—
Sliger, A. Glenn; O'Donnell, James J.; Cares, W. Ronald; and Northup, Aldrich H., Jr., 4,634,582, Cl. 423-243.000.

O'Donnell, James W. Smoke eliminator. 4,703,808, 11-3-87, Cl. 169-91.000.

O'Donnell, John B., to Rorer Pharmaceutical Corporation. Mandrel for opening a tube of flexible material. 4,693,059, 9-15-87, Cl. 53-567.000.

O'Donnell, John C.: *See*—
Sharkany, Edward J.; and O'Donnell, John C., 4,662,372, Cl. 128-321.000.

O'Donnell, Kevin P. Diverter magnet arrangement for plasma processing system. 4,657,619, 4-14-87, Cl. 156-345.000.

O'Donnell, Matthew; Karr, Steven G.; Barber, William D.; Wang, Jui M.; and Edelstein, William A., to General Electric Company. Method for homogenizing a static magnetic field over an arbitrary volume. 4,680,551, 7-14-87, Cl. 324-320.000.

O'Donnell, Michael S.; and Graham, Robert R. Gas supply safety valve for earthquake protection. 4,715,394, 12-29-87, Cl. 137-38.000.

O'Donnell, Philip P.: *See*—
Gale, Stephen B.; and O'Donnell, Philip P., 4,693,798, Cl. 204-149.000.

O'Donnell, Roseann, to Dove Handbag Co., Inc. Character pack. 4,662,550, 5-5-87, Cl. 224-209.000.

O'Donnell, William J.: *See*—
Porowski, Jan S.; O'Donnell, William J.; Badlani, Manu L.; and Hampton, Edward J., 4,683,014, Cl. 148-131.000.
Porowski, Jan S.; Badlani, Manu L.; O'Donnell, William J.; and Hampton, Edward J., 4,702,880, Cl. 376-305.000.

O'Donnell, William P.: *See*—
Skinner, Harry W.; Skinner, James W.; O'Donnell, William P.; and Skinner, William O., 4,702,645, Cl. 405-154.000.

Odor, Elbert P., to Westinghouse Electric Corp. Stabilizing attachment for boring head. 4,690,592, 9-1-87, Cl. 408-1.00R.

Odor, Elbert P.: *See*—
Harman, Douglas G.; and Odor, Elbert P., 4,635,456, Cl. 72-53.000.

Odor, Louis, to Rockwell International Corporation. Induction heating platen for hot metal working. 4,649,249, 3-10-87, Cl. 219-10.730.

Odorici, Franco, to Azionaria Costruzioni Macchine Automatiche A.C.M.A. S.p.A. Apparatus for supplying flattened boxes to a packaging machine. 4,708,568, 11-24-87, Cl. 414-330.000.

Odorisio, Paul: *See*—
Spivack, John D.; Pastor, Stephen D.; and Odorisio, Paul, 4,642,382, Cl. 568-12.000.

Odorisio, Paul A.: *See*—
Spivack, John D.; Steinberg, David H.; and Odorisio, Paul A., 4,713,475, Cl. 560-75.000.

O'Driscoll, Bryan E., to Nu-Steel Engineering Pty. Ltd. Structural member. 4,686,802, 8-18-87, Cl. 52-94.000.

O'Dwyer, Jeremiah: *See*—
Byrne, John V.; McMullin, Francis; Devitt, Francis; and O'Dwyer, Jeremiah, 4,670,696, Cl. 318-701.000.

O'Dwyer, Jeremiah B.: *See*—
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Odyssey Systems Limited: *See*—
Colin, George M.; and Hunter, Edwin J., 4,675,922, Cl. 4-502.00.

Oe, Kouji: *See*—
Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; Sasaki, Toshiki; and Nishio, Yoshihiro, 4,640,887, Cl. 430-275.000.
Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; and Sasaki, Toshiki, 4,684,601, Cl. 430-284.000.

Oe, Shigeyuki: *See*—
Yoshihara, Kunio; Sudo, Toshio; Iida, Atsuko; Miyagi, Takeshi; Saito, Tamio; and Oe, Shigeyuki, 4,644,093, Cl. 174-36.000.

Oe, Takanori: *See*—
Tsuruda, Mineo; Oe, Takanori; Kawasaki, Kazuyuki; Mikashima, Hiroshi; and Yasuda, Hiroshi, 4,661,603, Cl. 548-346.000.

Oe, Tsutomu; Kimura, Shigeaki; Yuzaki, Yoshinori; and Ozaki, Tadao, to Mitsubishi Jukogyo Kabushiki Kaisha. Apparatus for fabricating multi-layer spiral tubes. 4,640,453, 2-3-87, Cl. 228-17.700.

OEC Europe Limited: *See*—
Helal, Basil H., 4,634,445, Cl. 623-21.000.

Oechslin, Ludwig; Giger, Urs; and Sporing, Jorg, to Ulysse Nardin S.A. Astronomical wrist-watch. 4,711,583, 12-8-87, Cl. 368-16.000.

Oeckl, Siegfried; Schade, Gerold; Schmitt, Hans-Georg; Paulus, Wilfried; and Genth, Hermann, to Bayer Aktiengesellschaft. Halogenated sulphides, process for their preparation and their use in microbicidal agents. 4,647,687, 3-3-87, Cl. 558-439.000.

Oeckl, Siegfried; Reinecke, Paul; Brandes, Wilhelm; Kuck, Karl-Heinz; Paulus, Wilfried; and Genth, Hermann, to Bayer Aktiengesellschaft. Halogenopropargylformamide pesticides. 4,661,632, 4-28-87, Cl. 564-217.000.

Oeckl, Siegfried; Mitschker, Alfred; Lange, Peter M.; and Martinola, Friedrich, to Bayer Aktiengesellschaft. Catalyst resins and process for their preparation. 4,695,556, 9-22-87, Cl. 502-11.000.

Oehler, Henry; Peth, Norbert; Holpp, Hans W.; and Sass, Wolfgang, to Gebr. Steimel. Centrifuging installation. 4,693,017, 9-15-87, Cl. 34-58.000.

Oehler, Michael P.: *See*—
Appelbaum, Matthew A.; Lehman, David B.; Nieglos, Donald J.; Nolte, Stanley C.; and Oehler, Michael P., 4,683,968, Cl. 380-4.000.

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Oehler, Reinhard: *See*—
Lattion, Andre ; Carl, Alfred; and Oehler, Reinhard, 4,684,307, Cl. 414-31.000.
Oehler, Siegfried: *See*—
Kressirer, Rudolf; and Oehler, Siegfried, 4,683,410, Cl. 318-696.000.
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Joly, Jean; Oehlert, Yves; Neyroud, Jean; Penot, Oliver; Pergent, Jacky; Barillier, Gilbert; and LeBlanc, Bernard, 4,692,847, Cl. 361-413.000.
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Oehlke, Donald N., to Eaton Corporation. Releasable fastener. 4,683,622, 8-4-87, Cl. 24-458.000.
Oehlschlaeger, Richard M.; and Greco, John R., to Parker-Hannifin Corporation. Dual wall safety tube. 4,653,541, 3-31-87, Cl. 138-104.000.
Oehr, Klaus H., to B.C. Research Council. Process for preparing ceric sulphate. 4,683,038, 7-28-87, Cl. 204-93.000.
Oehrle, Rolf; and Herlemann, Werner, to Daimler-Benz Aktiengesellschaft. Seal arrangement for the gap between a rigid sliding cover and a fixed roof area of a motor vehicle surrounding the same. 4,667,966, 5-26-87, Cl. 277-12.000.
Oelsen, Ubbo v.; Stecher, Karlheinz; Koehler, Waldemar; Mueller, Berthold; Brunnmueller, Fritz; and Schneider, Rolf, to BASF Aktiengesellschaft. Cleavage of formamide to give hydrocyanic acid and water. 4,693,877, 9-15-87, Cl. 423-373.000.
Oelsermann, Max; and Rademacher, Karl A., to Rittershaus & Blecher GmbH. Membrane plate for chamber filter presses. 4,666,596, 5-19-87, Cl. 210-228.000.
Oelterer, Friedrich: *See*—
Theurer, Josef; and Oelterer, Friedrich, 4,635,664, Cl. 134-131.000.
Theurer, Josef; and Oelterer, Friedrich, 4,703,568, Cl. 37-104.000.
Oelters, Dieter, to W. Schlafhorst & Co. Compressed air thread splicing device. 4,693,066, 9-15-87, Cl. 57-22.000.
Oesch, Jurgen, to Preh Elektrofeinmechanische Werke Jakob Preh Nachf. GmbH & Co. Device and method for connecting a printed circuit film. 4,643,497, 2-17-87, Cl. 339-17.00F.
Oesch, Jurgen, to Preh Elektrofeinmechanische Werke, Jakob Preh, Nachf. GmbH & Co. Keyboard printed circuit film and method of fabrication. 4,658,235, 4-14-87, Cl. 338-307.000.
Oesch Kommanditgesellschaft: *See*—
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Oelsch, Kurt; and Schulz, Klaus, 4,654,576, Cl. 322-3.000.
Oelsch, Kurt; and Schulz, Klaus, to Oelsch Kommanditgesellschaft. Slider for resistor and slip conductors. 4,635,028, 1-6-87, Cl. 338-171.000.
Oelsch, Kurt; and Schulz, Klaus, to Oelsch Kommanditgesellschaft. Control signal generator. 4,654,576, 3-31-87, Cl. 322-3.000.
Oelschlager, Hans H., to Heinrich Oelschlager Metallwarenfabrik. Strap seat. 4,645,033, 2-24-87, Cl. 182-6.000.
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Kramer, David N.; and Oeltmann, Thomas N., 4,676,880, Cl. 204-157.910.
Oenig, Joseph A., to Brettrager Manufacturing Co. Crankshaft machining device. 4,653,158, 3-31-87, Cl. 29-6.000.
Oen, Joshua T., to Paccar, Inc. Latching arrangement and method. 4,643,468, 2-17-87, Cl. 292-2.000.
Oen, Joshua T., to Paccar, Inc. Adjustable hood hinge assembly. 4,653,470, 4-21-87, Cl. 16-241.000.
Oen, Sverre; Poppe, Dag; and Tronsli, Sverre N., to Alcatel N.V. Power supply. 4,695,935, 9-22-87, Cl. 363-21.000.
Oenema, Rinke: *See*—
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Oen, Heinrich A.: *See*—
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Oenig, Horst, to Felasto Pur GmbH & Co. KG. Endless track having synthetic plates with chain link connections. 4,705,325, 11-10-87, Cl. 305-35.00R.
Oepen-Boehringer GmbH: *See*—
Oepen, Klaus; Honroth, Walter; Kuhn, Siegfried; Schulten, Hermann; and Zeller, Bruno, 4,696,209, Cl. 82-40.00R.
Oepser, Wolfgang; Kuhn, Siegfried; Rader, Robert; Setzer, Friedhelm; Kienhofer, Hermann; and Muhlich, Werner, 4,662,253, Cl. 92-32.000.
Oepen, Heinrich: *See*—
Oepter, Wolfgang; Flaig, Oskar; Oertel, Heinrich; Kaiser, Hans; Kussmaul, Ewald; and Brede, Hermann, 4,666,313, Cl. 368-205.000.
Oepen, Michael: *See*—
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Oepen, Konrad; and Wetter, Hansjurg, to Ciba-Geigy Corporation. Dyes, process for their preparation, and their use. 4,695,643, 9-22-87, Cl. 556-428.000.
Oepen, Konrad: *See*—
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Oepen, Willy; and Oertle, Konrad, 4,671,819, Cl. 71-93.000.
Oepen, Max: *See*—
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Oepter, Frank: *See*—
Oepter, Frank; and Oeschger, Frank, 4,635,922, Cl. 271-119.000.
Oeschger, Max P.; Hooke, Anne M.; and Bellanti, Joseph A., to Research Corporation. Genetically attenuated bacterial vaccines with multiple mutations of the same phenotype. 4,681,762, 7-21-87, Cl. 424-92.000.
Oeschsle, Manfred; Szieslo, Uwe; Streb, Karl-Peter; and Simm, Wolfgang, to Castolin S.A. Device for the thermal spray application of fusible materials. 4,711,627, 12-8-87, Cl. 431-30.000.
Oess, Hans-Dieter: *See*—
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Dietzsch, Kurt; and Oess, Hans-Dieter, 4,671,810, Cl. 55-309.000.
Oestberg, Lars, to Sandoz Ltd. Process for the production of human mono-clonal antibodies. 4,634,664, 1-6-87, Cl. 435-68.000.
Oesterhelt, Gottfried; and Petrzilka, Martin, to Hoffmann-La Roche Inc. Liquid crystalline compounds and mixtures. 4,652,089, 3-24-87, Cl. 350-350.00R.
Oesterle, Gerhard: *See*—
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Oesterle, Hermann: *See*—
Klein, Hans-Christof; Armonier, Ulrich; Oesterle, Hermann; and Jendroska, Juergen, 4,641,519, Cl. 73-129.000.
Oestreich, Ulrich; and Mayr, Ernst, to Siemens Aktiengesellschaft. Optical transmission element. 4,641,916, 2-10-87, Cl. 350-96.230.
Oestreich, Ulrich, to Siemens Aktiengesellschaft. Optical cable for overhead high-tension lines. 4,673,247, 6-16-87, Cl. 350-96.230.
Oestreich, Ulrich; and Mayr, Ernst, to Siemens Aktiengesellschaft. Ribbon-shaped transmission element and method of manufacture. 4,709,984, 12-1-87, Cl. 350-96.230.
Oestreich, Ulrich: *See*—
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Goldmann, Horst; Mayr, Ernst; and Oestreich, Ulrich, 4,684,214, Cl. 350-96.230.
Mayr, Ernst; and Oestreich, Ulrich, 4,660,926, Cl. 350-96.230.
Oestreicher, Feodor: *See*—
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Oeth, James F.; and Link, Joseph E., to Deere & Company. Vehicle seat armrest adjustment mechanism. 4,674,798, 6-23-87, Cl. 297-411.000.
Oetiker, Hans. Method for preforming a substantially flat blank of an open clamp. 4,633,698, 1-6-87, Cl. 72-168.000.
Oetiker, Hans. Hospital bed. 4,685,159, 8-11-87, Cl. 5-61.000.
Oetiker, Hans. Pipe connection. 4,693,502, 9-15-87, Cl. 285-334.500.
Oetiker, Hans. Pipe connection. 4,695,080, 9-22-87, Cl. 285-334.500.
Oetiker, Hans. Pincer-like tool. 4,708,034, 11-24-87, Cl. 81-9.300.
Oetiker, Hans. Fastening arrangement for open hose clamp. 4,711,001, 12-8-87, Cl. 24-20.01TT.
Oetiker, Hans. Earless clamp structure. 4,712,278, 12-15-87, Cl. 24-20.01TT.
Oettel, Carmen G. Protective mask for animals. 4,662,156, 5-5-87, Cl. 54-80.000.
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Houghton, Alan N.; Brooks, Hannah; Cote, Richard J.; Oettgen, Herbert F.; and Old, Lloyd J., 4,693,966, Cl. 435-7.000.
Lloyd, Kenneth O.; Old, Lloyd J.; Karlsson, Karl-Anders; Larson, Goran; Stromberg, Nicklas; Thurin, Jan; Anger, Bernd R.; and Oettgen, Herbert F., 4,678,747, Cl. 435-7.000.
Old, Lloyd J.; Lloyd, Kenneth O.; Oettgen, Herbert F.; Whitmore, Willet F.; Szkudlarek, Jerzy; Finstad, Connie L.; Morrissey, Donna; Ogata, Shun-ichiro; and Ueda, Ryuzo, 4,650,756, Cl. 435-68.000.
Oetting, Hermann; Oberg, Hans-Joachim; Pundt, Dieter; and Binnewies, Willi, to Volkswagen Aktiengesellschaft. Ignition device for spark-ignited internal combustion engine. 4,669,443, 6-2-87, Cl. 123-647.000.
Oetting, Steven L., to El Paso Products Company. Process for the recovery of amorphous devaporized polyalphaolefin. 4,710,563, 12-1-87, Cl. 528-501.000.
Oettli, Martin W. Method for monitoring the drift of an anchored vessel and device for implementing the method. 4,651,139, 3-17-87, Cl. 340-531.000.
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Oevermann, Siegfried: *See*—
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Oexler, Rudolf; and Veit, Kurt, to Schubert & Salzer. Open-end spinning apparatus. 4,653,266, 3-31-87, Cl. 57-407.000.
Oexler, Rudolf; and Hackenberg, Willi, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Drive apparatus for a paraffining device. 4,662,166, 5-5-87, Cl. 57-296.000.
Oexmann, Henry E. R., to Rockwell International Corporation. Autoequalizer. 4,716,577, 12-29-87, Cl. 375-15.000.
Oezelli, Riza N.; Hoffmann, Hans-Josef; and Kohlstadt, Hans-Peter, to Henkel Kommanditgesellschaft auf Aktien. Glass primer. 4,670,057, 6-2-87, Cl. 106-236.000.
Off, Joseph W. A.; and Ferguson, Vivian, to Automated Machinery Systems, Inc. Method and apparatus for forming and stitching a shirt placket. 4,690,078, 9-1-87, Cl. 112-121.120.
Off-The-Wall Products: *See*—
Copley, Michael C.; and Clark, Alonzo W., IV, 4,702,614, Cl. 368-72.000.

Offe, Darrell L.; and Martin, R. Gregory, to United States of America, Navy. Trident II first and second stage internal insulation. 4,711,086, 12-8-87, Cl. 60-253.000.

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Offermann, Paul F., to Chevron Research Company. Method for supplying electrical power to proximity-effect heat-tracing circuits. 4,704,515, 11-3-87, Cl. 219-300.000.

Office Automation Systems, Inc.: *See—*
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Office de Distribution d'Appareils Medicaux: *See—*
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Bretaudeau, Francis; and Sarazin, Marc, 4,642,469, Cl. 250-561.000.
Desarmot, Georges; and Sanchez, Manuel, 4,690,738, Cl. 204-130.000.
Destuynder, Roger; Bouttes, Jacques; and Poisson-Quinton, Philippe, 4,706,902, Cl. 244-76.00C.
Fima, Henri; and Janiaud, Denis, 4,710,668, Cl. 310-323.000.
Fontanella, Jean-Claude, 4,645,346, Cl. 356-353.000.
Fredholm, Allan; Davidson, James H.; Khan, Tasadduq; and Theret, Jean-Marc C. F., 4,639,280, Cl. 148-404.000.
Philbert, Michel, 4,688,941, Cl. 356-351.000.
Ropars, Marcel; and Bloch, Bertrand, 4,642,264, Cl. 428-367.000.
Slodzian, Georges; Costa De Beauregard, Francois; Daigne, Bernard; and Girard, Francois, 4,638,160, Cl. 250-296.000.
Slodzian, Georges; Daigne, Bernard; and Girard, Francois, 4,694,170, Cl. 250-309.000.
Thibert, Jean-Jacques; and Bousquet, Jean-Marc, 4,652,213, Cl. 416-223.00R.

Officina Meccanica della Stanga-O.M.S. S.p.A.: *See—*
Vianello, Giorgio; and Soloni, Ugo, 4,644,872, Cl. 105-801.000.
Vigliani, Umberto, 4,697,526, Cl. 105-3.000.

Officina Meccanica Fratelli Falzoni S.d.f.: *See—*
Falzoni, Pierino, 4,685,604, Cl. 227-18.000.

Officine Augusto Cattani & C.S.p.A.: *See—*
Cattani, Augusto, 4,684,345, Cl. 433-92.000.
Cattani, Augusto, 4,710,209, Cl. 55-418.000.

Officine Galileo S.p.A.: *See—*
Lombardini, Lapo; and Bardi, Gianluca, 4,691,534, Cl. 62-55.500.

Officine Meccaniche Pavesi & C. S.p.A.: *See—*
Barrera, Giorgio, 4,694,560, Cl. 29-564.100.

Officine Minnetti di Federico Minnetti & C.S.a.s.: *See—*
Minnetti, Federico, 4,697,690, Cl. 198-395.000.

Officine Savio S.p.A.: *See—*
Badiali, Roberto; Bertoli, Luciano; and Speranzin, Claudio, 4,637,205, Cl. 57-22.000.
Beconcini, Paolo; Caccivio, Giuseppe; and Nannini, Dante, 4,665,720, Cl. 66-149.00S.
Luchi, Luciano, 4,674,301, Cl. 66-13.000.
Nerli, Giovanni; Nesti, Soltario; Grego, Francesco; Bottos, Roberto; and Ferro, Francesco, 4,698,960, Cl. 57-401.000.
Nerli, Giovanni; Grego, Francesco; Bottos, Roberto; and Ferro, Francesco, 4,704,859, Cl. 57-401.000.

Offner, Stephen B.; Berg, Peter G.; and Kawate, Keith W. Supplemental automotive vehicular heater system and method of providing same. 4,678,982, 7-7-87, Cl. 322-8.000.

Offner, Abe, to Perkin-Elmer Corporation, The. Method and apparatus for optical system adjustments. 4,693,569, 9-15-87, Cl. 350-505.000.

Offner, Waldemar: *See—*
Schlesinger, Hans-Joachim; and Offner, Waldemar, 4,646,423, Cl. 29-568.000.

Offringa, Oege R.; and Van Der Ploeg, Frederik, to Wavin B.V. Method for manufacturing a pipe part from fibre-reinforced thermosetting synthetic material. 4,675,965, 6-30-87, Cl. 29-157.00T.

Offringa, Oege R.: *See—*
Flierveet, Johannes H. M.; and Offringa, Oege R., 4,662,655, Cl. 285-24.000.

Offshore Navigation, Inc.: *See—*
Christy, Edmund H.; Rouquette, Robert E.; and Van Doren, Lawrence, 4,665,404, Cl. 342-463.000.

Offt, Alan M.: *See—*
Hoogenboom, Leo; Jackson, Robert L., Jr.; Kraft, Russell P.; and Offt, Alan M., 4,710,808, Cl. 358-107.000.

Offutt, Elmer B.: *See—*
Hambleton, Larry G.; Sears, Claude L.; and Offutt, Elmer B., 4,708,153, Cl. 134-170.000.

Offutt, James C., to Rimball, Inc. Basketball goal support. 4,657,249, 4-14-87, Cl. 273-1.50R.

Offutt, James C., to Rimball, Inc. Door mounted, height adjustable basketball backboard and rim. 4,715,600, 12-29-87, Cl. 273-1.50R.

OFI Testing Equipment Inc.: *See—*
Schroeder, Royce E., 4,677,843, Cl. 73-54.000.

Officina Tecnica HGB: *See—*
Vadasz, Amnon F., 4,662,392, Cl. 137-533.110.

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Yeomans, James T., 4,700,902, Cl. 241-100.000.

Ofstead, Ronald F., to Minnesota Mining and Manufacturing Co. Article coated with copolymer of poly(vinyl alcohol). 4,6 9-15-87, Cl. 428-421.000.

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Ofstead, Ronald F.: *See—*
Hammar, W. James; and Ofstead, Ronald F., 4,673,2 264-1.100.

Oftedal, Tor A.; and Ramdahl, Thomas, to Forsvarets Forsk stitutt. Method of making a priming device for a heatin 4,664,674, 5-12-87, Cl. 44-39.000.

Oftring, Alfred; Hahn, Erwin; and Fikentscher, Rolf, to BASF gesellschaft. Preparation of N-α-alkoxyethylformamides. 4, 6-2-87, Cl. 564-224.000.

Oftring, Alfred: *See—*
Fikentscher, Rolf; Hahn, Erwin; Kud, Alexander; and Alfred, 4,652,669, Cl. 558-441.000.
Fikentscher, Rolf; Hahn, Erwin; Kud, Alexander; and Alfred, 4,654,432, Cl. 558-357.000.

Ofuchi, Kunihiko: *See—*
Kimura, Kuniko; Ofuchi, Kunihiko; and Oda, Koichiro, 4, Cl. 252-117.000.

Ofuji, Hiromichi: *See—*
Hara, Seinosuke; Ofuji, Hiromichi; Miisyo, Kazuyuki; Mat Yasuo; and Kato, Manabu, 4,708,101, Cl. 123-90.160.

Ofusa, Masaatsu; and Ishihama, Toshio, to Yoshida Kogyo Woven slide fastener. 4,678,013, 7-7-87, Cl. 139-384.00B.

Ofusa, Masaatsu; and Ishihama, Toshio, to Yoshida Kogyo Method and apparatus for manufacturing woven slide stringer. 4,682,635, 7-28-87, Cl. 139-116.000.

Oga, Tomonari: *See—*
Higuchi, Seizun; Oga, Tomonari; Ikeda, Masao; and Hirohumi, 4,713,301, Cl. 428-628.000.

Ogaga, Tetsuo: *See—*
Abe, Takao; and Ogaga, Tetsuo, 4,706,111, Cl. 358-21.00

Ogaki, Hirokazu; Kato, Yoshibumi; and Furukawa, Satoshi, to Kogyo Kabushiki Kaisha. Software vending system. 4 3-31-87, Cl. 364-479.000.

Ogaki, Hirokazu, to Brother Kogyo Kabushiki Kaisha. Softwa ing instrument. 4,672,554, 6-9-87, Cl. 364-479.000.

Ogaki, Hirokazu; Funahashi, Yasuhiro; Koie, Hiroshi; and Tomoko, to Brother Kogyo Kabushiki Kaisha. Software system. 4,674,055, 6-16-87, Cl. 364-479.000.

Ogaki, Hirokazu; Yasutomo, Yuichi; Kato, Yoshibumi; Kato and Suzuki, Takamitsu, to Brother Kogyo Kabushiki Kais matic vending system. 4,677,565, 6-30-87, Cl. 364-479.000.

Ogami, Kenneth Y.: *See—*
Gahagan, Dean A.; and Ogami, Kenneth Y., 4,669 375-1.000.

Ogami, Nobutoshi; and Kitagawa, Masaru, to Dainippon Sc Co., Ltd. Surface treatment apparatus. 4,693,211, 9-1 118-725.000.

Ogami, Takayuki: *See—*
Kasahara, Toshiharu; Ogami, Takayuki; and Kitayoshi 4,713,788, Cl. 364-718.000.

Ogane, Hiroshi: *See—*
Iwano, Hiroshi; Yamamoto, Tadahiro; Ota, Tadaki; Oga shi; Ohnishi, Eiichi; and Yonezawa, Atsushi, 4,69 123-472.000.

Ogano, Takeo; Konatsuzaki, Takeshi; Shigenari, Ryoichi; a Naomoto, to Honda Giken Kogyo Kabushiki Kaisha. In control device for brake and clutch in tractor-mounted machines. 4,694,942, 9-22-87, Cl. 192-13.00A.

Ogano, Takeo: *See—*
Shinokawa, Masahide; Katoh, Yukio; Furuichi, Miyazawa, Takeshi; and Ogano, Takeo, 4,676,350, Cl.

Ogarkov, Vsevolod I.: *See—*
Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdo I.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolga ory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlo Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ov Jury A., 4,680,260, Cl. 435-68.000.

Ogasa, Michio: *See—*
Sakane, Toshihiko; and Ogasa, Michio, 4,709,220, Cl. 3

Ogasa, Takehiro: *See—*
Hirata, Tadashi; Hashimoto, Yukio; Ogasa, Takehiro; Shigeru; Sato, Akira; Sato, Kiyoshi; and Takasa 4,667,450, Cl. 540-205.000.
Mochida, Kenichi; Ogasa, Takehiro; Shimada, Junic Tadashi; Sato, Kiyoshi; and Okachi, Ryo, 4,64 514-241.000.

Ogasahara, Takio; and Fujimoto, Hiroaki, to Sanshin Kogyo Kaisha. Two-stroke engine. 4,690,109, 9-1-87, Cl. 123-73.0

Ogasahara, Yoshio: *See—*
Yamagata, Taizo; Uchikawa, Takaaki; Yamamoto, Tomikawa, Shinichiro; Ogasahara, Yoshio; and Masaru, 4,694,736, Cl. 98-31.600.

Ogasawara, Akira; Watanabe, Sakuji; Terui, Nobuhiko; Utagawa, Ken; and Hoshino, Kunihisa, to Nippon Kogaku K. K. Control device for automatic focusing. 4,634,851, 1-6-87, Cl. 250-204.000.
Ogasawara, Akira, to Nippon Kogaku K. K. Diaphragm-control apparatus for camera. 4,695,150, 9-22-87, Cl. 354-448.000.
Ogasawara, Fumihiro; and Sonehara, Noboru, to Ricoh Co., Ltd.; and Nippon Telegraph & Telephone Corporation. Telematic system and method of controlling the same. 4,677,257, 6-30-87, Cl. 178-4.000.
Ogasawara, Ichiro: *See*—
Suzuki, Shuzo; Ogasawara, Ichiro; Yokota, Hiroshi; and Sumida, Shin, 4,653,852, Cl. 350-96.330.
Uchioke, Fumikiyo; Ogasawara, Ichiro; and Suzuki, Shuzo, 4,703,998, Cl. 350-96.230.
Ogasawara, Isamu; Maekawa, Kiyotsugu; Tomioka, Hiroyuki; and Furukawa, Shinji, to Unitika Ltd. Fine amorphous metal wires. 4,657,604, 4-14-87, Cl. 148-304.000.
Ogasawara, Isamu; Maekawa, Kiyotsugu; Tomioka, Hiroyuki; and Furukawa, Shinji, to Unitika Ltd. Fine amorphous metal wires. 4,657,605, 4-14-87, Cl. 148-304.000.
Ogasawara, Joji: *See*—
Inada, Shoshichiro; Furukawa, Kurune; Masui, Takachika; Honda, Keijiro; Ogasawara, Joji; and Tsubakimoto, Genchi, 4,714,791, Cl. 568.913.000.
Ogasawara, Kazuo; Katoh, Yoshiichi; and Takahashi, Hideo, to NEC Corporation. Precision analog switching circuit employing MOS transistors. 4,651,037, 3-17-87, Cl. 307-572.000.
Ogasawara, Kenzi: *See*—
Matsumura, Masahiro; Ogasawara, Kenzi; Nakamoto, Atsuhiro; and Sugawa, Yoshihisa, 4,680,377, Cl. 528-322.000.
Ogasawara, Kuniko, legal successor: *See*—
Kato, Hideki; Yamamoto, Noriyuki; Ogasawara, Takahisa, deceased; and Asai, Masami, deceased, 4,668,719, Cl. 523-458.000.
Ogasawara, Masafumi; Yamaguchi, Nobu; and Moriki, Yoshikazu, to Toray Industries, Inc. Melt-spinning apparatus. 4,648,826, 3-10-87, Cl. 425-192.00S.
Ogasawara, Masafumi: *See*—
Sano, Takao; Sekido, Toshihide; and Ogasawara, Masafumi, 4,666,590, Cl. 209-2.000.
Ogasawara, Sadanori; Hanafusa, Takashi; Kariya, Katsuhide; Ito, Masayoshi; and Shitori, Yoshiyasu, to Meet Corporation. Expectorant. 4,698,332, 10-6-87, Cl. 514-42.000.
Ogasawara, Satoshi: *See*—
Kurakake, Sigeo; and Ogasawara, Satoshi, 4,661,904, Cl. 364-200.000.
Ogasawara, Shinji: *See*—
Kawashima, Chikashi; Ogasawara, Shinji; Tanaka, Isao; and Koga, Yasufumi, 4,652,592, Cl. 522-117.000.
Koga, Yasufumi; Ogasawara, Shinji; and Maeda, Kazuhiko, 4,655,963, Cl. 252-511.000.
Ogasawara, Tadahiko, to Olympus Optical Co., Ltd. Medical laser device. 4,674,497, 6-23-87, Cl. 128-303.100.
Ogasawara, Tadashi: *See*—
Okada, Hiroshi; Tsujiuchi, Toshio; and Ogasawara, Tadashi, 4,706,415, Cl. 51-165.00R.
Yoneda, Takao; Ogasawara, Tadashi; Ohta, Norio; and Sakakibara, Yasuji, 4,709,505, Cl. 51-165.710.
Ogasawara, Takahisa: *See*—
Okita, Tsutomu; Naruo, Kyoichi; Tsuji, Nobuo; Nakagawa, Teruo; Murase, Kiyoshi; and Ogasawara, Takahisa, 4,657,817, Cl. 428-425.900.
Ogasawara, Takahisa, deceased: *See*—
Kato, Hideki; Yamamoto, Noriyuki; Ogasawara, Takahisa, deceased; and Asai, Masami, deceased, 4,668,719, Cl. 523-458.000.
Ogasawara, Takayuki: *See*—
Morita, Tetuya; Wakasa, Akinori; Ogawa, Yutaka; and Ogasawara, Takayuki, 4,651,692, Cl. 123-270.000.
Ogawa, Yutaka; Ogasawara, Takayuki; and Hori, Yoshiaki, 4,638,683, Cl. 74-567.000.
Ogawa, Yutaka; Ogasawara, Takayuki; and Hanzawa, Shigeru, 4,662,331, Cl. 123-270.000.
Ogawa, Yutaka; Ogasawara, Takayuki; and Hanzawa, Shigeru, 4,681,074, Cl. 123-271.000.
Ogasawara, Takio: *See*—
Takeuchi, Toshio; Tomita, Hiroshi; and Ogasawara, Takio, 4,633,834, Cl. 123-424.000.
Ogasawara, Terumi: *See*—
Arai, Masayuki; and Ogasawara, Terumi, 4,651,216, Cl. 358-228.000.
Ogasawara, Toshichika: *See*—
Ishihara, Kouji; Igusa, Kazuo; and Ogasawara, Toshichika, 4,668,665, Cl. 514-53.000.
Ogasawara, Toshitaka; Nohmi, Kazumasa; Honmoh, Masao; and Iseki, Yukito, to Matsushita Electronics Corporation. Reflector type fluorescent lamp for optical apparatus. 4,695,763, 9-22-87, Cl. 313-487.000.
Ogasawara, Tsunehiko; Arakawa, Yoshichika; Sumiya, Koji; and Sakaguchi, Yoshikazu, to Aisin Seiki Kabushiki Kaisha; and Aisin-Warner Kabushiki Kaisha. System for controlling automatic transmission having communication control valve means. 4,633,739, 1-6-87, Cl. 74-869.000.
Ogata, Hajime; Nakakouji, Hisatada; Akeda, Yasuhiro; Ichida, Toshio; Ine, Toshio; and Otsuka, Sachiko, to Kawasaki Steel Corporation. Tin-free steel strips useful in the manufacture of welded cans and process for making. 4,687,713, 8-18-87, Cl. 428-628.000.
Ogata, Kazutosi: *See*—
Hagita, Hyoji; Fukuda, Takashi; Maeda, Shigeru; Imamura, Hideo; Ogata, Kazutosi; and Fukuoka, Masahiro, 4,688,411, Cl. 72-42.000.
Ogata, Kojiro: *See*—
Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.
Ogata, Masamitsu: *See*—
Nishimura, Yoichi; Ogata, Masamitsu; and Ida, Takanori, 4,636,484, Cl. 502-65.000.
Sato, Goro; Ogata, Masamitsu; Masuda, Tatsuo; and Ida, Takanori, 4,692,236, Cl. 208-114.000.
Ogata, Masao; and Kakinuma, Nobuo, to Hitachi Metals, Ltd. Convergence device for electron beams in color picture tube. 4,670,726, 6-2-87, Cl. 335-212.000.
Ogata, Mikito; Mori, Masahito; Doi, Takashi; Miyazaki, Michio; and Oka, Takafumi, to Hitachi, Ltd. Information recording system and method for using alternative record area in writing and reading of data on optical disk. 4,638,472, 1-20-87, Cl. 369-54.000.
Ogata, Mikito; Mori, Masahito; Doi, Takashi; and Miyazaki, Michio, to Hitachi, Ltd. Data recording and reproducing method. 4,677,606, 6-30-87, Cl. 369-59.000.
Ogata, Muneyuki: *See*—
Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, 4,671,828, Cl. 148-309.000.
Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, 4,683,012, Cl. 148-301.000.
Ogata, Naoya, to Goodyear Tire & Rubber Company, The. Polycondensation catalyst. 4,668,762, 5-26-87, Cl. 528-286.000.
Ogata, Naoya; Sanui, Kohei; Yui, Nobuhiko; Nojima, Kazuhiko; Kataoka, Kazunori; Okano, Teruo; and Sakurai, Yasuhisa, to Research Development Corp. of Japan. Antithrombogenic synthetic elastomer and process of preparation thereof. 4,687,831, 8-18-87, Cl. 528-64.000.
Ogata, Nobuyuki: *See*—
Nagata, Kunio; Aoi, Tatsuo; Iwakiri, Norio; Osumi, Hiroshi; Ogata, Nobuyuki; and Yamane, Noribito, 4,681,994, Cl. 200-16.00B.
Ogata, Shun-ichiro: *See*—
Dupont, Bo; Morishima, Yasuo; Collins, Nancy; Ogata, Shun-ichiro; and Lloyd, Kenneth O., 4,710,457, Cl. 435-7.000.
Old, Lloyd J.; Lloyd, Kenneth O.; Oettgen, Herbert F.; Whitmore, Willet F.; Szkudlarek, Jerzy; Finstad, Connie L.; Morrissey, Donna; Ogata, Shun-ichiro; and Ueda, Ryuzo, 4,650,756, Cl. 435-68.000.
Ogata, Shunji: *See*—
Hagio, Masahiro; Nanbu, Shutaro; Kanazawa, Kunihiko; Ogata, Shunji; and Tohmori, Shiro, 4,665,416, Cl. 357-22.000.
Ogata, Tadashi: *See*—
Yanagida, Hiroaki; and Ogata, Tadashi, 4,715,944, Cl. 204-426.000.
Ogata, Yasuji: *See*—
Goto, Hisashi; and Ogata, Yasuji, 4,708,443, Cl. 350-427.000.
Ogata, Yasunobu: *See*—
Kudo, Mitsuhiro; Takayama, Shinji; Sawada, Yoshizo; and Ogata, Yasunobu, 4,668,310, Cl. 148-304.000.
Ogata, Yasuyuki; and Shinohara, Yoshinori, to Mitsubishi Mining & Cement Co., Ltd. Method for production of dielectric powder. 4,636,248, 1-13-87, Cl. 75-0.5AA.
Ogata, Yukihiko, to Canon Kabushiki Kaisha. Image information processing apparatus. 4,675,742, 6-23-87, Cl. 358-257.000.
Ogatsu, Motohiro, to Marutamaya Ogatsu Fireworks Co., Ltd. Circuit apparatus for operating fireworks ignition. 4,641,580, 2-10-87, Cl. 102-217.000.
Ogawa, Akira: *See*—
Suzuki, Masaru; Tsujiuchi, Yoshio; Ogawa, Akira; and Usami, Tadashi, 4,660,944, Cl. 350-635.000.
Ogawa, Eiichi: *See*—
Toda, Junji; and Ogawa, Eiichi, 4,667,021, Cl. 534-625.000.
Ogawa, Genshiro, Electronically-controlled heating device for infusion liquids. 4,680,445, 7-14-87, Cl. 219-299.000.
Ogawa, Hidehiro; Ezawa, Akira; and Ikeda, Kei, to Nippon Kogaku K. K. Exposure correction device for camera. 4,652,102, 3-24-87, Cl. 354-21.000.
Ogawa, Hirofumi: *See*—
Kusano, Chushirou; Ishioka, Sachio; Imamura, Yoshimori; Takasaki, Yukio; Ogawa, Hirofumi; Makishima, Tatsuo; and Hirai, Tadaaki, 4,636,682, Cl. 313-386.000.
Ogawa, Hirofusa: *See*—
Sauda, Kenzo; Yokota, Akitoshi; Yagi, Takuro; Kuribayashi, Hiroshi; Kita, Saburo; Shibata, Setsuo; and Ogawa, Hirofusa, 4,661,290, Cl. 252-626.000.
Ogawa, Hiromi: *See*—
Imanaka, Yoshihiko; Ogawa, Hiromi; Tsukada, Mineharu; Udagawa, Etsuro; Kurihara, Kazuaki; Yokoyama, Hiromitsu; and Kamehara, Nobuo, 4,679,320, Cl. 29-848.000.
Kurihara, Kazuaki; Kamehara, Nobuo; Yokoyama, Hiromitsu; Ogawa, Hiromi; Yokouchi, Kishio; Imanaka, Yoshihiko; and Niwa, Koichi, 4,642,148, Cl. 156-89.000.
Ogawa, Hironobu: *See*—
Hino, Youzi; and Ogawa, Hironobu, 4,703,302, Cl. 338-293.000.
Ogawa, Hiroshi; Saito, Shinji; and Tamai, Yasuo, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,634,632, 1-6-87, Cl. 428-425.900.
Ogawa, Hiroshi; Sonoda, Yoshiteru; and Dohi, Ryosuke, to Fujikin International, Inc. Control valve. 4,645,176, 2-24-87, Cl. 251-129.080.

Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,649,081, 3-10-87. Cl. 428-447.000.
Ogawa, Hiroshi; and Tamai, Yasuo, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,664,981, 5-12-87, Cl. 428-425.900.
Ogawa, Hiroshi; Miyazaki, Yasuyuki; and Yoshida, Susumu, to Kabushiki Kaisha Meidensha. Unmanned vehicle control system and method. 4,665,487, 5-12-87, Cl. 364-424.000.
Ogawa, Hiroshi; and Kanno, Tomoei, to Showa Sangyo Co., Ltd.; and Shikishima Starch Manufacturing Co., Ltd. Method for obtaining phytin. 4,665,813, 5-26-87, Cl. 558-147.000.
Ogawa, Hiroshi; Mizuno, Chiaki; Tamai, Yasuo; and Kamiyama, Koozi, to Fuji Photo Film Co., Ltd. Magnetic tape having a leader tape. 4,680,225, 7-14-87, Cl. 428-323.000.
Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,687,710, 8-18-87, Cl. 428-447.000.
Ogawa, Hiroshi; Miyazaki, Yasuyuki; Yoshida, Susumu; and Sasaki, Shinichi, to Kabushiki Kaisha Meidensha. System for automatically controlling movement of unmanned vehicle and method therefor. 4,716,530, 12-29-87, Cl. 364-424.000.
Ogawa, Hiroshi: *See*—
Iida, Koujirou; Yoshioka, Yasuo; Ogawa, Hiroshi; Haruno, Kiyoshi; and Ohigashi, Tsugio, 4,682,768, Cl. 271-3.100.
Omura, Katsuhiko; Misumi, Haruo; Ogawa, Hiroshi; and Nagao, Naotake, 4,675,518, Cl. 250-205.000.
Ono, Toshio; Tamai, Yasuo; Mizuno, Chiaki, Ogawa, Hiroshi; and Saito, Shinji, 4,710,421, Cl. 428-213.000.
Suzuki, Tetsuji; Yoshida, Susumu; Ogawa, Hiroshi; and Miyazaki, Yasuyuki, 4,665,489, Cl. 364-424.000.
Ogawa, Hirotoshi; and Tsuno, Kazuhiko, to Asahi Yukizai Kogyo Co., Ltd. Flanged valve. 4,676,479, 6-30-87, Cl. 251-151.000.
Ogawa, Hiroyasu; Shigei, Tetsuro; Sugeno, Hiroshi; and Ichimaru, Kazuhiro, to Toho Beslon Co., Ltd. High-strength carbonaceous fiber. 4,671,950, 6-9-87, Cl. 423-447.100.
Ogawa, Hiroyasu: *See*—
Teranishi, Katsuya; Ozima, Kazuhira; Saito, Cyuichi; and Ogawa, Hiroyasu, 4,682,681, Cl. 198-333.000.
Ogawa, Hiroyo: *See*—
Ise, Taichiro; Yamamoto, Kazuyuki; and Ogawa, Hiroyo, 4,700,348, Cl. 371-8.000.
Ogawa, Hitoshi, to Mitsubishi Denki Kabushiki Kaisha. Diaphragm type pump device having a cushion member. 4,666,378, 5-19-87, Cl. 417-571.000.
Ogawa, Ichitaro: *See*—
Miyazaki, Kenji; Hagio, Tsuyoshi; Ogawa, Ichitaro; Yoshida, Hisayoshi; Kobayashi, Kazuo; Kashima, Kazutsugu; Tada, Takashi; Hayashi, Yoichiro; and Abe, Wataru, 4,637,884, Cl. 252-12.000.
Ogawa, Izumi: *See*—
Fujiwara, Tsutomu; Matsuda, Susumu; Murakami, Keisuke; Ogawa, Izumi; Tago, Mamoru; Aoki, Chihiro; Doi, Masahiro; and Anno, Hiroshi, 4,711,443, Cl. 271-126.000.
Ogawa, Junji, to Fujitsu Limited. Semiconductor memory device having a redundancy circuit. 4,701,887, 10-20-87, Cl. 365-200.000.
Ogawa, Junji: *See*—
Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fuji, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased, 4,707,806, Cl. 365-96.000.
Ogawa, Kazufumi, to Matsushita Electric Industrial Co., Ltd. Molecular controlled structure and method of producing the same. 4,673,474, 6-16-87, Cl. 204-157.640.
Ogawa, Kazufumi, to Matsushita Electric Industrial Co., Ltd. Method of curing photocurable and heat-curable compositions and a method of adhering members to each other by using them. 4,698,113, 10-6-87, Cl. 156-275.700.
Ogawa, Kazufumi, to Matsushita Electric Industrial Co., Ltd. Water-soluble photosensitive material with dichromate and low molecular weight gelatin. 4,707,433, 11-17-87, Cl. 430-289.000.
Ogawa, Kazufumi, to Matsushita Electric Industrial Co., Ltd. Pattern forming method. 4,715,929, 12-29-87, Cl. 156-643.000.
Ogawa, Kazufumi, to Matsushita Electric Industrial Co., Ltd. Light exposure apparatus. 4,716,441, 12-29-87, Cl. 355-30.000.
Ogawa, Kazuhiko: *See*—
Orihashi, Tadaaki; Tsuji, Hiroshi; Ogawa, Kazuhiko; Hayashitani, Masao; Terada, Seiji; Miyagawa, Tsugio; and Isozaki, Hideo, 4,673,486, Cl. 208-86.000.
Ogawa, Kazuo; and Honna, Takaji, to Taiho Pharmaceutical Company, Limited. Rhodanine derivatives and process for preparing the same. 4,714,765, 12-22-87, Cl. 548-183.000.
Ogawa, Kazuo: *See*—
Fujii, Setsuro; Ogawa, Kazuo; Hamakawa, Toshihiro; and Muranaka, Yoshiyuki, 4,675,428, Cl. 558-52.000.
Yamawaki, Ichiro, Ogawa, Kazuo; Ono, Naohiko; Honna, Takaji; Nagayama, Sekio; and Yasumoto, Mitsugi, 4,696,929, Cl. 514-253.000.
Ogawa, Keizaburo: *See*—
Ukigaya, Tadashi; and Ogawa, Keizaburo, 4,692,337, Cl. 424-469.000.
Ogawa, Kenichi: *See*—
Kishi, Matsuo; Ogawa, Kenichi; and Ikeno, Hiroshige, 4,699,850, Cl. 428-469.000.
Nojiri, Shoji; Ogawa, Kenichi; and Murakami, Koso, 4,656,625, Cl. 370-62.000.
Ogawa, Kenji, to Idemitsu Petrochemical Co., Ltd. Apparatus for foiding web-shaped member. 4,637,812, 1-20-87, Cl. 493-357.000.
Ogawa, Kiichiro: *See*—
Kashiwazaki, Masamichi; Ogawa, Kiichiro; and Uchida, Satoshi, 4,689,949, Cl. 60-39.120.
Ogawa, Kikuo: *See*—
Minoura, Takayoshi; and Ogawa, Kikuo, 4,703,397, Cl. 361-428.000.
Ogawa, Kimihiro: *See*—
Kuno, Masashi; and Ogawa, Kimihiro, 4,668,732, Cl. 524-497.00.
Ogawa, Kimio, to Victor Company of Japan, Limited. Tape guide arrangement for helical scan magnetic recording and playback apparatus. 4,688,126, 8-18-87, Cl. 360-130.240.
Ogawa, Kiyoshi, to Kabushiki Kaisha Toshiba. Self-commutated converter is selectively decoupled from an AC grid. 4,677,309, 6-30-87, Cl. 307-46.000.
Ogawa, Koichi; Uwano, Tomoki; Kosugi, Hiroaki; and Yamamoto, Junko, to Matsushita Electric Industrial Co., Ltd. Small antenna. 4,700,194, 10-13-87, Cl. 343-700.0MS.
Ogawa, Koichi: *See*—
Goto, Yasuyuki; Koshino, Nagaaki; Ogawa, Seiya; Goto, Hironori; and Ogawa, Koichi, 4,650,742, Cl. 430-271.000.
Ogawa, Kyosuke; Shirai, Shigeru; Kanbe, Junichiro; Saitoh, Keishi; Osato, Yoichi; and Misumi, Teruo, to Canon Kabushiki Kaisha. Photoconductive member having amorphous silicon matrix with oxygen and impurity containing regions. 4,636,450, 1-13-87, Cl. 430-84.000.
Ogawa, Kyosuke; Shirai, Shigeru; Saitoh, Keishi; Misumi, Teruo; and Kanbe, Junichiro, to Canon Kabushiki Kaisha. Light receiving member having an amorphous silicon photoconductor. 4,637,972, 1-20-87, Cl. 430-84.000.
Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Image holder member with overlayer of amorphous Si with H and C. 4,687,722, 8-18-87, Cl. 430-59.000.
Ogawa, Kyosuke: *See*—
Kamiya, Osamu; Fujiyama, Yasutomo; Ogawa, Kyosuke; and Kurokawa, Takashi, 4,637,342, Cl. 118-719.000.
Kamiya, Osamu; Nishida, Keijiro; Fujiyama, Yasutomo; and Ogawa, Kyosuke, 4,666,734, Cl. 427-39.000.
Matsumoto, Yasuyuki; Murai, Keiichi; Fukuda, Tadaji; and Ogawa, Kyosuke, 4,702,981, Cl. 430-69.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,650,736, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,675,263, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,678,733, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,881, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,882, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,883, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,696,884, Cl. 430-58.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,392, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,393, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,730, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,731, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,732, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,733, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,734, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,735, Cl. 430-57.000.
Ogawa, Makoto: *See*—
Satoh, Tsuyoshi; Mitsuishi, Tsutomu; Toyoda, Kenji; Naito, Kazu; Ogawa, Makoto; and Sato, Hiroshi, 4,698,646, Cl. 346-76.0PH.
Ogawa, Masahiko: *See*—
Chito, Yasuo; and Ogawa, Masahiko, 4,695,778, Cl. 318-314.000.
Sakane, Toshio; Taguchi, Tetsuya; Ogawa, Masahiko; Tamura, Shuichi; and Tsunekawa, Tokuichi, 4,636,053, Cl. 354-403.000.
Shinohara, Toshio; Ogawa, Masahiko; and Yokoo, Akio, 4,659,85, Cl. 556-476.000.
Ogawa, Masaki; and Kudo, Takabumi, to Bridgestone Corporation. High-performance pneumatic tire having bead fillers of anisotropic elasticity. 4,711,285, 12-8-87, Cl. 152-458.000.

Ogawa, Masaki: *See*—
Baba, Toshio; Mizutani, Takashi; and Ogawa, Masaki, 4,695,857, Cl. 357-16.000.

Ogawa, Masanobu, to Diesel Kiki Co., Ltd. Fuel injector for internal combustion engines, 4,669,668, 6-2-87, Cl. 239-533.500.

Ogawa, Masao: *See*—
Fujita, Haruyasu; Ogawa, Masao; and Honma, Kenji, 4,650,213, Cl. 280-772.000.
Fujita, Haruyasu; Honma, Kenji; and Ogawa, Masao, 4,659,106, Cl. 280-772.000.
Fujita, Haruyasu; Ogawa, Masao; and Suzuki, Takahisa, 4,685,690, Cl. 280-112.00A.
Utsunomiya, Tadashi; Matsumuro, Yasuhiko; Sato, Keishi; Fukahori, Yoshihide; and Ogawa, Masao, 4,674,622, Cl. 198.500.000.

Ogawa, Masashi, to Fuji Photo Film Co., Ltd. Polyacrylamide medium for electrophoresis having improved elasticity, 4,657,656, 4-14-87, Cl. 204-299.00R.

Ogawa, Masashi; and Tamaki, Hiroyuki, to Director of The Finance Division Minister's Secretariat Science and Technology Agency. Element for electrophoresis using aqueous polyacrylamide gel, 4,699,705, 10-13-87, Cl. 204-299.00R.

Ogawa, Masashi: *See*—
Hashiue, Masakazu; and Ogawa, Masashi, 4,640,759, Cl. 204-299.00R.
Hashiue, Masakazu; Ogawa, Masashi; and Nishio, Daijiro, 4,650,556, Cl. 204-182.700.

Ogawa, Masataka: *See*—
Hirano, Norimitsu; and Ogawa, Masataka, 4,704,566, Cl. 315.254.000.

Ogawa, Masayuki: *See*—
Hatakeyama, Hiroshi; Ogawa, Masayuki; Matsumura, Kozo; and Nakagawa, Eiji, 4,663,192, Cl. 427-108.000.

Ogawa, Motokazu; Nishiguchi, Yasuo; and Minami, Keijiro, to Kyocera Corporation. Thermal head for thermal recording, 4,708,915, 11-24-87, Cl. 428.698.000.

Ogawa, Naoki, to Nissan Motor Co., Ltd. Internal combustion engine having aluminum alloy cylinder block, 4,651,691, 3-24-87, Cl. 123-195.00H.

Ogawa, Naoki, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like, 4,662,317, 5-5-87, Cl. 123-41.210.

Ogawa, Naoki: *See*—
Murakami, Toshiyuki; Sugimoto, Norihiko; and Ogawa, Naoki, 4,680,757, Cl. 370-89.000.
Shimonosono, Hitoshi; Ogawa, Naoki; Fujigaya, Kazuyuki; and Minezaki, Yutaka, 4,669,427, Cl. 123-41.270.

Ogawa, Nobuo: *See*—
Ito, Yasuo; Kato, Hideo; Ogawa, Nobuo; Yamagishi, Kagari; Koshinaka, Eiichi; and Nishino, Hiroyuki, 4,638,009, Cl. 514-428.000.

Ogawa, Noriaki: *See*—
Asagi, Yasuyoshi; Ogawa, Noriaki; Kasai, Hitoshi; Hattori, Toshihiro; and Uriuhara, Makoto, 4,642,771, Cl. 364-424.100.
Asagi, Yasuyoshi; Ogawa, Noriaki; Moride, Shigeki; Hattori, Toshihiro; and Shishido, Katsuya, 4,671,397, Cl. 192-0.052.
Hattori, Toshihiro; Uriuhara, Makoto; Kasai, Hitoshi; Asagi, Yasuyoshi; and Ogawa, Noriaki, 4,643,048, Cl. 74-866.000.
Hattori, Toshihiro; Uchiyama, Nobuichi; Asagi, Yasuyoshi; Ogawa, Noriaki; and Kasai, Hitoshi, 4,683,996, Cl. 192-0.033.
Hattori, Toshihiro; Shishido, Katsuya; Kasai, Hitoshi; Moride, Shigeki; and Ogawa, Noriaki, 4,685,051, Cl. 364-424.100.

Ogawa, Riichi: *See*—
Saito, Tadao; and Ogawa, Riichi, 4,697,722, Cl. 222-571.000.

Ogawa, Ryota; and Sato, Shigetada, to Asahi Kogaku Kogyo Kabushiki Kaisha-Nai. Small-sized wide-angle lens, 4,660,940, 4-28-87, Cl. 350-458.000.

Ogawa, Satoshi: *See*—
Izuka, Yoshio; Matsunaga, Shigeo; and Ogawa, Satoshi, 4,646,160, Cl. 358-257.000.
Oe, Masayuki; Ogawa, Satoshi; Sugimoto, Sadao; Yamazaki, Masahiro; and Fujino, Katsuhito, 4,654,292, Cl. 430-197.000.

Ogawa, Seiya: *See*—
Goto, Yasuyuki; Koshino, Nagaaki; Ogawa, Seiya; Goto, Hironori; and Ogawa, Koichi, 4,650,742, Cl. 430-271.000.

Ogawa, Shigeo: *See*—
Kosugi, Yuhei; and Ogawa, Shigeo, 4,669,805, Cl. 439-581.000.

Ogawa, Shinji: *See*—
Inui, Masaki; and Ogawa, Shinji, 4,646,583, Cl. 74-473.00R.
Inui, Masaki; Horiuchi, Yusuke; and Ogawa, Shinji, 4,660,434, Cl. 74-477.000.
Ohta, Hiromi; Ogawa, Shinji; Kajikawa, Yosiharu; Fukumura, Kenichi; Tsuchiya, Kiyomitsu; Kittaka, Kiyoshi; and Narita, Katsushi, 4,707,999, Cl. 62-474.000.

Ogawa, Soichiro; and Watanabe, Yoshio, to Hitachi, Ltd. Discharge lamp operating device, 4,682,080, 7-21-87, Cl. 315-209.00R.

Ogawa, Sumitaka: *See*—
Ishii, Norihisa; and Ogawa, Sumitaka, 4,669,438, Cl. 123-418.000.
Miura, Nabuo; Ishii, Norihisa; and Ogawa, Sumitaka, 4,671,237, Cl. 123-418.000.
Miura, Nobuo; Ishii, Norihisa; and Ogawa, Sumitaka, 4,643,150, Cl. 123-418.000.

Ogawa, Tadahiro: *See*—
Tamura, Hisashi; Hirata, Terutaka; Odohira, Tetsu; and Ogawa, Tadahiro, 4,644,798, Cl. 73-708.000.

Ogawa, Tadashi; Arakawa, Jun; Nagaoka, Satoshi; Ohashi, Yuichi; and Yamoto, Koji, to Fuji Photo Film Co., Ltd. Silver halide color photographic materials having improved development characteristics, 4,652,515, 3-24-87, Cl. 430-505.000.

Ogawa, Tadashi; and Okazaki, Masaki, to Fuji Photo Film Co., Ltd. Silver halide multi-layered color photographic light sensitive material, 4,686,175, 8-11-87, Cl. 430-505.000.

Ogawa, Tadatoshi: *See*—
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,670,529, Cl. 526-348.100.
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,675,247, Cl. 428-349.000.

Ogawa, Takahira: *See*—
Fukuda, Hideo; Ogawa, Takahira; and Fuji, Takao, 4,698,304, Cl. 435-166.000.

Ogawa, Takao: *See*—
Mizuno, Tooru; Oosugi, Keizi; Esaki, Motoharu; and Ogawa, Takao, 4,682,287, Cl. 364-561.000.

Ogawa, Takashi, Auxiliary instrument for stretching and softening exercises, 4,693,470, 9-15-87, Cl. 272-96.000.

Ogawa, Takashi; Shirogami, Tametsu; and Murata, Kenji, to Kabushiki Kaisha Toshiba. Molten carbonate fuel cell, 4,708,916, 11-24-87, Cl. 429-38.000.

Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, to Electric Power Development Co., Ltd.; Kawasaki Jukogyo Kabushiki Kaisha; and Sumitomo Heavy Industries, Ltd. Preparation of deashed high solid concentration coal-water slurry, 4,712,742, 12-15-87, Cl. 241-20.000.

Ogawa, Takayuki: *See*—
Kamei, Takao; Ono, Fuminobu; Komai, Keiichi; Wakabayashi, Takeshi; Ogawa, Takayuki; Ito, Hideaki; and Shirakawa, Kiyoshi, 4,702,745, Cl. 44-10.00D.

Ogawa, Tetsu; and Kato, Masahiro, to Canon Denshi Kabushiki Kaisha. System for controlling loading and ejection of recording medium on a disc unit, 4,670,802, 6-2-87, Cl. 360-97.000.

Ogawa, Tetsu, to Canon Denshi Kabushiki Kaisha. Interface system which selectively provides impedance matching between a host computer and a control circuit, 4,694,421, 9-15-87, Cl. 364-900.000.

Ogawa, Tetsuo: *See*—
Maruno, Naohiko; Abe, Masakazu; and Ogawa, Tetsuo, 4,684,842, Cl. 310-316.000.
Suma, Tetsuro; Abe, Takao; and Ogawa, Tetsuo, 4,680,763, Cl. 371-37.000.

Ogawa, Tetsuro: *See*—
Numaho, Yoshio; Kato, Yoshio; Ogawa, Tetsuro; Okada, Hiroshi; and Arima, Kiyoshi, 4,663,630, Cl. 342-176.000.

Ogawa, Tetsuya; Kitano, Kisei; Goto, Yasuyuki; Fukui, Masahiro; and Sugimori, Shigeru, to Chisso Corporation. 5-alkyl-2-(3,4-difluorophenyl)pyrimidine and nematic liquid crystal composition containing same, 4,640,795, 2-3-87, Cl. 252-299.500.

Ogawa, Tetsuya: *See*—
Goto, Yasuyuki; Ogawa, Tetsuya; and Sugimori, Shigeru, 4,695,398, Cl. 252-299.500.
Isoyama, Toyoshiro; Ogawa, Tetsuya; and Sugimori, Shigeru, 4,680,137, Cl. 252-299.620.
Isoyama, Toyoshiro; Goto, Yasuyuki; Ogawa, Tetsuya; and Sugimori, Shigeru, 4,696,759, Cl. 252-299.620.
Kitano, Kisei; Ogawa, Tetsuya; Furukawa, Yoshito; Yoshida, Naoyuki; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,684,476, Cl. 252-299.610.
Nigorikawa, Kazunori; Kitano, Kisei; Sugimori, Shigeru; and Ogawa, Tetsuya, 4,668,425, Cl. 252-299.610.
Sugimori, Shigeru; Ogawa, Tetsuya; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,673,529, Cl. 252-299.630.
Sugimori, Shigeru; Goto, Yasuyuki; and Ogawa, Tetsuya, 4,683,078, Cl. 252-299.610.
Sugimori, Shigeru; Nigorikawa, Kazunori; and Ogawa, Tetsuya, 4,684,477, Cl. 252-299.610.
Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Ogawa, Tetsuya; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,684,478, Cl. 252-299.630.
Yoshida, Naoyuki; Kitano, Kisei; Furukawa, Yoshito; Ogawa, Tetsuya; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,640,796, Cl. 252-299.610.

Ogawa, Tomoya; Sugimoto, Mamoru; Shitori, Yoshiyasu; and Ito, Masayoshi, to Kanto Ishi Pharmaceutical Co., Ltd.; and Rikagaku Kenkyusho. Sialic acid derivatives, 4,678,076, 9-15-87, Cl. 536-17.200.

Ogawa, Tomoya: *See*—
Shibayama, Shohei; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, 4,663,443, Cl. 536-4.100.
Shibayama, Shohei; Matsuzaki, Yuzi; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, 4,675,391, Cl. 536-17.400.

Ogawa, Toshiake: *See*—
Katayama, Kazuo; Ooishi, Katumi; Ogawa, Toshiake; Batai, Masaru; and Kataoka, Mitsuru, 4,660,852, Cl. 280-750.000.

Ogawa, Toshio; Fujishima, Satoru; and Ando, Akira, to Murata Manufacturing Co., Ltd. Piezoelectric displacement element, 4,649,313, 3-10-87, Cl. 310-358.000.

Ogawa, Toshio; and Katakura, Kageyoshi, to Hitachi, Ltd.; and Hitachi Medical Corporation. Electronic scanning apparatus for ultrasonic imaging, 4,671,115, 6-9-87, Cl. 73-626.000.

Ogawa, Toshio; Kondo, Shinichi; Umemura, Shinichiro; and Katakura, Kageyoshi, to Hitachi, Ltd.; and Hitachi Medical Corporation. Ultrasonic receiving apparatus, 4,679,176, 7-7-87, Cl. 367-119.000.

Ogawa, Toshio, to Murata Manufacturing Co., Ltd. Piezoelectric ceramic composition. 4,710,311, 12-1-87, Cl. 252-62.900.

Ogawa, Toshio: *See*—
Ishihara, Joo; Ogawa, Toshio; Era, Masashi; and Sato, Ken-ichi, 4,697,320, Cl. 29-132.000.

Ogawa, Toshiya; Ueno, Hiroaki; Yamada, Toshiaki; and Haganuma, Tomoyuki, to Ricoh Company, Ltd. Terminal device for editing document and communicating data. 4,716,543, 12-29-87, Cl. 364-900.000.

Ogawa, Toshiyuki: *See*—
Higaya, Toshiaki; Ogura, Masaaki; Yano, Takato; Hashizume, Kiyozo; Ogawa, Toshiyuki; and Seko, Nachio, 4,640,608, Cl. 355-15.000.

Ogawa, Tsugio: *See*—
Onda, Kenichi; Abe, Kojin; and Ogawa, Tsugio, 4,700,280, Cl. 363-19.000.

Ogawa, Yasuaki: *See*—
Okada, Hiroaki; Ogawa, Yasuaki; and Yashiki, Takatsuka, 4,652,441, Cl. 424-19.000.
Okada, Hiroaki; Ogawa, Yasuaki; and Yashiki, Takatsuka, 4,711,782, Cl. 424-455.000.
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,677,191, Cl. 528-361.000.
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,683,288, Cl. 528-361.000.

Ogawa, Yasuhiro; and Muramoto, Yasuo, to Kanebo, Ltd.; and Kanebo Synthetic Fibers, Ltd. Glove. 4,660,228, 4-28-87, Cl. 2-167.000.

Ogawa, Yoshiaki, to Nippon Gear Co., Ltd. Rotary encoder with intermittent feed means. 4,716,290, 12-29-87, Cl. 250-231.03E.

Ogawa, Yoshifumi: *See*—
Kudo, Katsuyoshi; Nagatomo, Katsuaki; Yamamoto, Hideji; Nishita, Katsuyasu; and Ogawa, Yoshifumi, 4,664,767, Cl. 204-164.000.

Ogawa, Yoshihiko: *See*—
Hongu, Tatsuya; Suzuki, Toshio; Ogawa, Yoshihiko; and Itoh, Takeshi, 4,689,357, Cl. 521-176.000.
Sato, Yoshihiko; Ohishi, Fujio; Hongu, Tatsuya; Suzuki, Toshio; and Ogawa, Yoshihiko, 4,652,495, Cl. 428-425.500.

Ogawa, Youichi: *See*—
Aoyagi, Yoshiro; Kimura, Toshiyuki; Niinuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Kenichi; Haeno, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77.100.

Ogawa, Yuji: *See*—
Shibasaki, Masakatsu; Sodeoka, Mikiko; and Ogawa, Yuji, 4,644,068, Cl. 549-214.000.
Shibasaki, Masakatsu; Mase, Toshiaki; Sodeoka, Mikiko; and Ogawa, Yuji, 4,681,951, Cl. 549-214.000.
Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.

Ogawa, Yukio, to Canon Kabushiki Kaisha. Camera with focal length varying device. 4,643,554, 2-17-87, Cl. 354-400.000.

Ogawa, Yukio; and Taka, Hideo, to Canon Kabushiki Kaisha. Automatic focusing camera. 4,688,919, 8-25-87, Cl. 354-403.000.

Ogawa, Yuriko: *See*—
Kamejima, Kohji; and Ogawa, Yuriko, 4,652,803, Cl. 318-587.000.

Ogawa, Yutaka; Ogasawara, Takayuki; and Hori, Yoshiaki, to NGK Insulators, Ltd. Camshaft for engine. 4,638,683, 1-27-87, Cl. 74-567.000.

Ogawa, Yutaka; Yamada, Shunichi; and Hamanaka, Toshiyuki, to NGK Insulators, Ltd. Rotary cordierite heat regenerator highly gas-tight and method of producing the same. 4,642,210, 2-10-87, Cl. 264-62.000.

Ogawa, Yutaka; Ogasawara, Takayuki; and Hanzawa, Shigeru, to NGK Insulators, Ltd. Precombustion chamber construction of internal combustion engine. 4,662,331, 5-5-87, Cl. 123-270.000.

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Ogawa, Yutaka: *See*—
Morita, Tetuya; Wakasa, Akinori; Ogawa, Yutaka; and Ogasawara, Takayuki, 4,651,692, Cl. 123-270.000.

Ogawa, Zenji: *See*—
Inoue, Yoshimi; Seki, Mamoru; Katagiri, Mamoru; Nishiyama, Hiroaki; and Ogawa, Zenji, 4,675,339, Cl. 514-419.000.

Ogawara, Fumio: *See*—
Oyamoto, Toshiya; Makino, Katsuaki; and Ogawara, Fumio, 4,702,818, Cl. 208-81.000.

Ogawara, Kazuhiro: *See*—
Tsuji, Seiichi; Ogawara, Kazuhiro; Koide, Shikuo; and Mizobuchi, Shotaro, 4,664,595, Cl. 415-170.00R.

Ogawara, Makoto: *See*—
Ishizuka, Masashi; and Ogawara, Makoto, 4,678,226, Cl. 296-203.000.

Ogborne, Laurence N.: *See*—
Hume, Kenneth J., deceased; and Ogborne, Laurence N., 4,686,876, Cl. 83-455.000.

Ogburn, Alan P.: *See*—
Draper, Francis R.; Francis, John H.; and Ogburn, Alan P., 4,706,635, Cl. 123-506.000.

Ogden, Geoffrey A.: *See*—
Turner, Nicholas J.; Ogden, Geoffrey A.; and Bridge, Richard S., 4,642,852, Cl. 19-236.000.

Ogden Inc.: *See*—
Ogden, John M., 4,635,385, Cl. 36-43.000.

Ogden Industries Pty. Ltd.: *See*—
Dunphy, Gerald F.; and Newman, Donald J., 4,689,975, Cl. 70-56.000.
Esser, Hans J., 4,676,537, Cl. 292-341.150.
Newman, Donald J., 4,699,409, Cl. 292-357.000.

Ogden Industries Pty Ltd: *See*—
Dunphy, Gerald F.; and Best, Lance F., 4,639,022, Cl. 292-150.000.

Ogden, Jeffrey D.: *See*—
Kayyod, Fariborz; Stuart, Richard J.; and Ogden, Jeffrey D., 4,711,156, Cl. 92-31.000.
Kayyod, Fariborz; Stuart, Richard J.; and Ogden, Jeffrey D., 4,711,157, Cl. 92-31.000.

Ogden, Joan M., to RCA Corporation. Fractal generation, as for video graphic displays. 4,694,407, 9-15-87, Cl. 364-518.000.

Ogden, John M., to Ogden Inc. Shoe insert. 4,635,385, 1-13-87, Cl. 36-43.000.

Ogden, Ralph; and Johnson, Carl J., to Ajay Enterprises Corporation. Adjustable speed control arrangement for motorized exercise treadmills. 4,635,928, 1-13-87, Cl. 272-69.000.

Ogden, Ralph. Charcoal grid arrangement for charcoal grills. 4,699,120, 10-13-87, Cl. 126-25.00A.

Ogden, Richard, to John Zink Company. Even flow radial burner tip. 4,702,691, 10-27-87, Cl. 431-187.000.

Ogden, Stanley D., to Rug Doctor, Inc. Portable vacuum cleaning machine. 4,651,380, 3-24-87, Cl. 15-321.000.

Ogg, Robert: *See*—
Foster, John D., 4,704,949, Cl. 92-160.000.

Ogg, Robert D., to Alpha Ocean Systems, Inc. Flexible shank anchors. 4,676,184, 6-30-87, Cl. 114-304.000.

Oggionni, Claudio: *See*—
Cominetta, Gilberto; and Oggionni, Claudio, 4,634,534, Cl. 210-150.000.

Ogi, Darrell H., to Oximetrix, Inc. Optical catheter calibrating assembly. 4,650,327, 3-17-87, Cl. 356-243.000.

Ogibayashi, Shigeaki; Yamada, Mamoru; Mukai, Tatsuo; Tezuka, Makoto; and Hirai, Masazumi, to Nippon Steel Corporation. Continuous casting method. 4,687,047, 8-18-87, Cl. 164-476.000.

Ogihara, Ketzo: *See*—
Serizawa, Hajime; Ogihara, Keizo; Shimizu, Kiyoshi; and Harada, Susumu, 4,701,497, Cl. 525-292.000.

Ogihara, Masuo; Ishida, Hiroaki; Nagaoka, Shinji; and Sato, Koji, to Seiko Koki Kabushiki Kaisha. Electromagnetically actuated shutter for a camera. 4,634,254, 1-6-87, Cl. 354-403.000.

Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, to Seiko Koki Kabushiki Kaisha. Control circuit for program shutter. 4,648,701, 3-10-87, Cl. 354-439.000.

Ogihara, Masuo; and Ishikawa, Tadashi, to Seikosha Co., Ltd. Alarm signaling time indicating mechanism for an alarm clock. 4,657,404, 4-14-87, Cl. 368-74.000.

Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, to Seikosha Co., Ltd. Programmable shutter. 4,693,583, 9-15-87, Cl. 354-439.000.

Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, to Seikosha Co., Ltd. Camera shutter. 4,696,560, 9-29-87, Cl. 354-439.000.

Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, to Seikosha Co., Ltd. Program shutter. 4,697,908, 10-6-87, Cl. 354-439.000.

Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, to Seikosha Co., Ltd. Automatic film sensitivity change-over device. 4,702,579, 10-27-87, Cl. 354-21.000.

Ogihara, Satoru: *See*—
Shinohara, Hiroichi; Ushifusa, Nobuyuki; Nagayama, Kousei; and Ogihara, Satoru, 4,672,152, Cl. 174-68.500.
Shoji, Moritaka; Yamazaki, Takeo; and Ogihara, Satoru, 4,692,735, Cl. 338-21.000.

Ogilvie, Francis J.; and Harshman, Nathan J., to Ratemaker Tools, Inc. Access notches for indexing inserts in a groove mill. 4,674,923, 6-23-87, Cl. 407-31.000.

Ogilvie, Frank R.: *See*—
Ogilvie, James W.; and Ogilvie, Frank R., 4,636,217, Cl. 623-17.000.

Ogilvie, James W.; and Ogilvie, Frank R., to University of Minnesota, Regents of the. Anterior spinal implant. 4,636,217, 1-13-87, Cl. 623-17.000.

Ogino, Akiharu: *See*—
Miyazono, Tadafumi; Eguchi, Yoshio; Ogino, Akiharu; Sawada, Haruhiko; and Okude, Yoshitaka, 4,714,634, Cl. 427-409.000.

Ogino, Akihiko; and Ohno, Teruyoshi, to Bridgestone Corporation. Outer heat insulating structure on a building roof. 4,663,909, 5-12-87, Cl. 52-302.000.

Ogino, Hidekazu; and Hirota, Hajime, to Kao Corporation. Liquid shampoo composition. 4,678,598, 7-7-87, Cl. 252-174.170.

Ogino, Hiroyuki: *See*—
Imura, Midori; Morijiri, Makoto; Hanazono, Masanobu; Kazu, Shinichi; Miura, Youzi; and Ogino, Hiroyuki, 4,659,587, Cl. 427-35.000.

Ogino, Izumi: *See*—
Okawa, Susumu; Ogino, Izumi; and Okuwaki, Shigeru, 4,645,477, Cl. 474-201.000.

Ogino, Kinji, to Akebono Brake Industry Co., Ltd.; and Akebono Research and Development Centre Ltd. Method of casting the fiber-reinforced caliper. 4,705,093, 11-10-87, Cl. 164-97.000.

...no, Kiyoshi. *See*—
Tanino, Katsumi; Kiuchi, Norihiro; Tominaga, Chikara; Itoh, Eiji; Ogino, Kiyoshi; Yahagi, Masataka; and Sakamoto, Masaru. 4,656,455, Cl. 338-35.000.

...no, Makoto. *See*—
Fujii, Takamitsu; Mochida, Masaaki; and Ogino, Makoto. 4,708,652, Cl. 433-201.100.

...no, Nobukuni. *See*—
Nakamura, Junji; Iida, Norikazu; and Ogino, Nobukuni. 4,644,446, Cl. 361-433.000.

...no, Takao, to Bridgestone Corporation. Reinforcement for rubber and method of making same. 4,653,259, 3-31-87, Cl. 57-243.000.

...no, Takao. *See*—
Yoshida, Atsunori; Kaneko, Hideaki; and Ogino, Takao. 4,650,525, Cl. 148-6.200.

...no, Takeshi. *See*—
Akiyama, Toshiyuki; Kotke, Norio; Ito, Kenji; Ogino, Takeshi; and Nagahara, Shunsaku. 4,675,887, Cl. 377-58.000.

...no, Toru. *See*—
Murata, Nobuyoshi; and Ogino, Toru. 4,656,981, Cl. 123-192.00B.

...no, Yasukazu. *See*—
Takeda, Yoshiyuki; Kawashima, Osamu; Furukawa, Shiro; and Ogino, Yasukazu. 4,704,458, Cl. 546-90.000.

...no, Yasuo. *See*—
Suda, Shigeyuki; Niwa, Yukichi; Ogino, Yasuo; Kawakami, Eigo; and Ohwada, Mitsutoshi. 4,667,316, Cl. 369-44.000.

...no, Yoshio; Shimomoto, Takeshi; and Hiraoka, Osamu, to Matsushita Electric Industrial Co. Ltd.; Shimomoto Technical Engineering Co., Ltd.; and Sumitomo Metal Co., Ltd. Touch control apparatus for electric appliances. 4,665,324, 5-12-87, Cl. 307-126.000.

...no, Yoshitaka, to Canon Kabushiki Kaisha. Method and apparatus for processing an image. 4,701,807, 10-20-87, Cl. 358-284.000.

...no, Yoshitaka. *See*—
Tanioka, Hiroshi; Ogino, Yoshitaka; Inoue, Yutaka; Naito, Masataka; and Hayakawa, Kimiaki. 4,706,128, Cl. 358-286.000.

...nz, Stanley. Modular tongue and groove removable panel partition system. 4,713,920, 12-22-87, Cl. 52-582.000.

...ro, Kenji. *See*—
Goto, Shinichi; and Ogiro, Kenji. 4,712,149, Cl. 360-132.000.
Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao; Fujita, Kazuhiro; and Ogiro, Kenji. 4,660,784, Cl. 242-198.000.

...isu, Yasuhiko. *See*—
Manabe, Katsuinde; and Ogisu, Yasuhiko. 4,668,479, Cl. 422-186.050.

...ita, Akira; and Tanaka, Masaaki, to Shinko Electric Co., Ltd.; and Fuji Xerox Co., Ltd. Color copying machine. 4,705,386, 11-10-87, Cl. 355.4.000.

...ita, Kunio. *See*—
Endo, Shinichi; Kimata, Kunio; Shimoda, Hideho; and Ogita, Kunio. 4,656,334, Cl. 219-212.000.

...ita, Sachio, to Sumitomo Bakelite Company Limited; and Ogita, Sachio. Cervical canal catheter. 4,693,704, 9-15-87, Cl. 604-55.000.

...iya, Hisao; and Yamaya, Koji, to Olympus Optical Co., Ltd. Endoscope apparatus. 4,667,655, 5-26-87, Cl. 128-6.000.

...iya, Hisao; and Kaiya, Haruhiko, to Olympus Optical Co., Ltd. Endoscope having internal pressure communication means. 4,706,654, 11-17-87, Cl. 128-4.000.

Ogiue, Katsumi; Suzuki, Yukio; Masuda, Ikuro; Odaka, Masanori; and Uchida, Hideaki, to Hitachi, Ltd. Semiconductor integrated circuit. 4,713,796, 12-15-87, Cl. 365-189.000.

Ogiue, Katsumi. *See*—
Ohno, Nobuhiko; Ogiue, Katsumi; Mizue, Katsuya; and Okuda, Noriyoshi. 4,656,606, Cl. 365-104.000.
Okada, Daisuke; Uchida, Akihisa; Takakura, Toshihiko; Nakashima, Shinji; Ohno, Nobuhiko; and Ogiue, Katsumi. 4,700,464, Cl. 437-67.000.

Ogle, Douglas R.; Richey, Daniel D.; and Whitehurst, James L., to General Motors Corporation. Electric engine starter. 4,707,616, 11-17-87, Cl. 290-48.000.

Ogle, George B., II. Orthopedic splint arrangement. 4,644,941, 2-24-87, Cl. 128-87.00A.

Ogle, Larry G. *See*—
Jakacki, Edwin J.; Ogle, Larry G.; Landwer, Jonathan C.; and Andersen, James C., 4,661,161, Cl. 106-112.000.

Ogle, Peter C. *See*—
Byrnes, Francis E.; Ferris, Donald L.; Hibyan, Edward S.; Nochren, William L.; and Ogle, Peter C., 4,714,450, Cl. 464-90.000.
Reavely, Richard T.; Ogle, Peter C.; and Kromrey, Robert V., 4,704,240, Cl. 264-102.000.

Oglesby, Donald L.; and Sinnamon, Robert H., to Dayco Products, Inc. Hose construction. 4,706,712, 11-17-87, Cl. 138-126.000.

Oglesby, Gary. *See*—
Pasierb, John J., Jr.; Nieto, Augustine; Andrus, Bryan; Kolomayets, George; Oglesby, Gary; and Ryan, Allen, 4,674,741, Cl. 272-72.000.

Ogman, Abraham O., to Avco Corporation. Surface treatment for carbon and product. 4,702,960, 10-27-87, Cl. 428-367.000.

Ognyanova, Vaska A. *See*—
Zabunova, Orhideya B.; Zvetanov, Hristo B.; Petrova, Lyudmila V.; Ognyanova, Vaska A.; Nikolova, Milka P.; Tanev, Georgi L.; and Ivanova, Nedyalka S., 4,704,468, Cl. 560-43.000.

Ogo, Kazutaka; Hayashi, Masahiro; Suzuki, Takatoshi; Hokao, Katsuku; Asai, Akio; and Tsuruhashi, Takayuki, to Kabushiki Kaisha Toyota Chuo Kenkyusho; and Toyota Jidosha Kabushiki Kaisha. High-speed machining controller. 4,709,198, 11-24-87, Cl. 318-571.000.

Ogo, Kazutaka. *See*—
Azuma, Hidekazu; Yoshinaka, Ryozi; Tsuruhashi, Takayuki; Hokao, Katsuku; Watanabe, Kazuki; Ogo, Kazutaka; Suzuki, Takatoshi; and Hayashi, Masahiro, 4,656,868, Cl. 73-587.000.

Ogo, Muneya. *See*—
Umemoto, Yonetsugu; Shirasawa, Hiroshi; Ogo, Muneya; Kinoshita, Kazumasa; and Kondo, Tetsuo, 4,690,581, Cl. 403-133.000.

Ogo, Yoshimasa, to Kabushiki Kaisha Toshiba. X-ray film holder. 4,658,415, 4-14-87, Cl. 378-187.000.

O'Grady, William R., to Du Pont de Nemours, E. I., and Company. Agricultural sulfonamide. 4,687,506, 8-18-87, Cl. 71-92.000.

Ogren, John A.; Heintzenberg, Jost; and Charlson, Robert J., to Washington Research Foundation. Virtual impactor. 4,689,052, 8-25-87, Cl. 55-17.000.

Oguchi, Kikuo; and Uchikawa, Yoshiro, to Kabushiki Kaisha Seiko Epson. System for driving a liquid crystal matrix display so as to avoid crosstalk. 4,640,582, 2-3-87, Cl. 350-333.000.

Oguchi, Kiyoshi, to Dai Nippon Insatsu Kabushiki Kaisha. Negative-type resist sensitive to ionizing radiation. 4,649,099, 3-10-87, Cl. 430-323.000.

Oguchi, Koichi; Hosokawa, Minoru; Yazawa, Satoru; and Nagata, Mitsuo, to Seiko Epson Kabushiki Kaisha. Liquid crystal display device having diffusely reflective picture electrode and pleochroic dye. 4,648,691, 3-10-87, Cl. 350-338.000.

Oguchi, Toshiaki. *See*—
Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kozaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.
Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358-236.000.

Oguchi, Toshitaro. *See*—
Iiri, Yasuo; Iri, Eiji; Oguchi, Toshitaro; and Aritomi, Koichiro, 4,703,997, Cl. 350-96.230.
Yasui, Hiroyoshi; Yoshida, Teruo; Komiya, Hiroshi; Oguchi, Toshitaro; and Okamura, Seiji, 4,668,411, Cl. 252-51.50A.

Oguchi, Yoshihiro; and Katagiri, Kazuharu, to Canon Kabushiki Kaisha. Image-holding member having top layer of hydrophobic silica. 4,647,521, 3-3-87, Cl. 430-58.000.

Oguchi, Yoshihiro. *See*—
Katagiri, Kazuhara; Oguchi, Yoshihiro; Ohtake, Takeshi; Arao, Kozo; Kitahara, Makoto; and Takasu, Yoshio, 4,673,630, Cl. 430-72.000.
Takasu, Yoshio; Oguchi, Yoshihiro; and Katagiri, Kazuharu, 4,693,951, Cl. 430-31.000.

Oguchi, Yuzo. *See*—
Komatsu, Fumito; Toyama, Akiyoshi; Oguchi, Yuzo; and Iwanami, Kiyoharu, 4,648,001, Cl. 360-133.000.

Oguey, Claude; Jamet, Daniel; and Berreby, Alain, to Compagnie Lyonnaise de Transmissions Optiques, S.A. Variable optical attenuator for optical fiber coupling. 4,645,294, 2-24-87, Cl. 350-96.150.

Oguma, Tomio; Takeda, Hisanobu; and Asou, Yasuhiro, to Aisin Seiki Kabushiki Kaisha. Circuit breaker. 4,700,082, 10-13-87, Cl. 307-116.000.

Ogunbiyi, Lai; and Smith, Francis X., to Bausch & Lomb Incorporated. Microbial enzymatic contact lens cleaner and methods of use. 4,690,773, 9-1-87, Cl. 252-174.120.

Ogunbiyi, Lai. *See*—
Chromecek, Richard C.; Ogunbiyi, Lai; Riedhammer, Thomas M.; and Smith, Francis X., 4,655,957, Cl. 252-174.230.

Oguni, Kensaku; Ishibane, Kyuhei; Kuroda, Shigeaki; Yasuda, Hiromu; Sano, Takashi; and Etou, Hironori, to Hitachi, Ltd. Refrigerant flow control system for use with refrigerator. 4,706,469, 11-17-87, Cl. 62-222.000.

Ogura, Atsushi; and Egami, Koji, to Agency of Industrial Science & Technology. Semiconductor device. 4,643,950, 2-17-87, Cl. 428-446.000.

Ogura Clutch. *See*—
Arai, Shigeharu; and Otsuka, Minoru, 4,640,458, Cl. 361-152.000.

Ogura Clutch Co., Ltd. *See*—
Sekiguchi, Yuzo; and Maejima, Enjiro, 4,635,774, Cl. 192-52.000.

Ogura, Haruo; Furuhata, Kimio; Osawa, Toshiaki; Toyoshima, Satoshi; Shitori, Yoshiyasu; Ito, Masayoshi; and Yoshimura, Shoji, to MECT Corporation. Sialic acid derivative and process for preparing the same. 4,691,012, 9-1-87, Cl. 536-23.000.

Ogura, Hiroo. *See*—
Harigaya, Yasuji; Ogura, Hiroo; Mihara, Mitsuo; Yamanaka, Motosuke; and Yamatsu, Kiyomi, 4,661,630, Cl. 562-455.000.

Ogura, Ichiro. *See*—
Asahina, Hiroshi; and Ogura, Ichiro, 4,674,108, Cl. 378-99.000.
Kaneko, Makoto; Ogura, Ichiro; Asahina, Hiroshi; and Yasuhara, Hiroshi, 4,688,175, Cl. 364-414.000.

Ogura, Kazumasa. *See*—
Uetomi, Isamu; Kimura, Masakazu; and Ogura, Kazumasa, 4,651,057, Cl. 315-5.410.

Ogura, Ken, to Oki Electric Industry Co., Ltd. Positive type resist material with trimethylsilylnitrile. 4,686,280, 8-11-87, Cl. 430-190.000.

Ogura, Kenji; and Yamazaki, Takeshi, to Toto Ltd. Toilet apparatus. 4,636,474, 1-13-87, Cl. 435-291.000.

Ogura, Koji; and Sobue, Hideo, to NGK Spark Plug Co., Ltd. Underwater acoustic wave transmitting and receiving unit. 4,694,440, 9-15-87, Cl. 367-152.000.

Ogura, Masaki: *See*—
Higaya, Toshiaki; Ogura, Masaki; Yano, Takato; Hashizume, Kiyozo; Ogawa, Toshiyuki; and Seko, Nachio, 4,640,608, Cl. 355-15.000.

Ogura, Masahiko, to Kabushiki Kaisha Toshiba. Motor driving apparatus. 4,638,235, 1-20-87, Cl. 318-696.000.

Ogura, Masahiko: *See*—
Watanabe, Junji; and Ogura, Masahiko, 4,657,375, Cl. 355-14.00R.

Ogura, Masami, to Honda Giken Kogyo Kabushiki Kaisha. Auxiliary equipment transmission. 4,674,612, 6-23-87, Cl. 192-48.920.

Ogura, Masami: *See*—
Shimizu, Yasuo; and Ogura, Masami, 4,687,085, Cl. 192-89.00W.

Ogura, Mineo: *See*—
Kaiya, Mitsuhiro; Denda, Masaki; Shimada, Masashi; Ohnuki, Hideki; and Ogura, Mineo, 4,660,052, Cl. 346-76.0PH.

Ogura, Mitsugi, to Tokyo Shibaura Denki Kabushiki Kaisha. Semiconductor memory device having a voltage push-up circuit. 4,636,981, 1-13-87, Cl. 365-203.000.

Ogura, Mitsugi; and Masuoka, Fujio, to Kabushiki Kaisha Toshiba. Dynamic memory cell and method for manufacturing the same. 4,688,064, 8-18-87, Cl. 357-23.600.

Ogura, Mitsugi: *See*—
Miyawaki, Naokazu; and Ogura, Mitsugi, 4,644,184, Cl. 307-269.000.
Nakagawa, Kaoru; Ogura, Mitsugi; Natori, Kenji; and Masuoka, Fujio, 4,706,249, Cl. 371-38.000.

Ogura, Satoshi: *See*—
Hata, Yasuhisa; Hatimaki, Takeshi; and Ogura, Satoshi, 4,696,626, Cl. 417-312.000.

Ogura, Seiki; Riseman, Jacob; Rovedo, Nivo; and Shepard, Joseph F., to International Business Machines Corporation. Self-aligned lateral bipolar transistors. 4,641,170, 2-3-87, Cl. 357-35.000.

Ogura, Seiki; Riseman, Jacob; Rovedo, Nivo; and Schulz, Ronald N., to International Business Machines Corporation. Method of preventing asymmetric etching of lines in sub-micrometer range sidewall images transfer. 4,648,937, 3-10-87, Cl. 156-643.000.

Ogura, Seiki: *See*—
Balasubramanyam, Karanam; Dally, Anthony J.; Riseman, Jacob; and Ogura, Seiki, 4,689,113, Cl. 156-643.000.
Beyer, Klaus D.; Makris, James S.; Mendel, Eric; Nummy, Karen A.; Ogura, Seiki; Riseman, Jacob; and Rovedo, Nivo, 4,671,851, Cl. 156-645.000.
Codella, Christopher F.; and Ogura, Seiki, 4,636,822, Cl. 357-22.000.

Ogura, Setsuo; Kondo, Shizuo; Minamimura, Eiji; and Furihata, Makoto, to Hitachi, Ltd. PLA with forward-conduction bipolar "and" array and I^2L "OR" array. 4,659,947, 4-21-87, Cl. 307-466.000.

Ogura, Setsuo: *See*—
Furihata, Makoto; Ogura, Setsuo; Kondo, Shizuo; and Minamimura, Eiji, 4,670,855, Cl. 365-104.000.
Okabe, Takahiro; Hayashi, Makoto; Moritsuye, Katuhiro; Watanabe, Tomoyuki; Washio, Katsuyoshi; Ogura, Setsuo; Furihata, Makoto; and Kondo, Shizuo, 4,697,102, Cl. 307-454.000.

Ogura, Shigetaro, and Handa, Yuichi, to Canon Kabushiki Kaisha. Integrated optical circuit element and method of making the same. 4,707,059, 11-17-87, Cl. 350-96.130.

Ogura, Shigetaro: *See*—
Tomita, Yasuo; Ogura, Shigetaro; and Matsumoto, Kazuya, 4,637,684, Cl. 350-96.190.

Ogura, Takashi; Tanaka, Koichi; Taniguchi, Koji; Yoshida, Masaru; and Mikami, Akiyoshi, to Sharp Kabushiki Kaisha. Thin film EL devices and process for producing the same. 4,707,419, 11-17-87, Cl. 428-690.000.

Ogura, Takashi: *See*—
Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.
Taniguchi, Koji; Tanaka, Koichi; and Ogura, Takashi, 4,672,266, Cl. 313-509.000.

Ogura, Tokihiko; and Hashimoto, Shigeru, to Canon Kabushiki Kaisha. Erasing apparatus. 4,670,799, 6-2-87, Cl. 360-66.000.

Ogura, Tsuneo, to Tokyo Shibaura Denki Kabushiki Kaisha. Thyristor with a self-protection function for breakover turn-on failure. 4,646,121, 2-24-87, Cl. 357-38.000.

Ogura, Tsuneo: *See*—
Nakagawa, Akio; Ohashi, Hiromichi; Ogura, Tsuneo; and Shimbo, Masaru, 4,700,466, Cl. 437-247.000.

Ogura, Yasutsugu: *See*—
Kamio, Masaru; Iijima, Shigeharu; Yoshihara, Satoshi; and Ogura, Yasutsugu, 4,661,191, Cl. 156-275.500.

Ogura, Yoshio: *See*—
Tominaga, Haruo; Takayama, Teruyuki; Ogura, Yoshio; and Yamaguchi, Tetsuo, 4,686,153, Cl. 428-610.000.

Ogura, Yukio, to Ricoh Company, Ltd. Laser beam scanning apparatus. 4,643,516, 2-17-87, Cl. 350-6.500.

Ogura, Yukio; and Nasu, Seiji, to Hitachi Construction Machinery Co.; and Hitachi Engineering Co., Ltd. Man-machine interface type portable ultrasonic composite measuring apparatus. 4,695,833, 9-22-87, Cl. 340-722.000.

Oguri, Hitoshi; and Hirota, Motoya, to Sumitomo Cement Co., Ltd. Chrysoberyl single crystal and method of producing the same. 4,634,492, 1-6-87, Cl. 156-605.000.

Oguri, Kazuo, to Mazda Motor Corporation. Hydraulic control for automatic transmission wherein sequential clutch engagement is controlled by an accumulator. 4,665,774, 5-19-87, Cl. 74-868.000.

Oguri, Shigenori; and Iizuka, Akira, to Nippon Gakki Seizo Kabushiki Kaisha. Automatic musical accompaniment playing system. 4,699,039, 10-13-87, Cl. 84-1.030.

Oguri, Shigenori, to Nippon Gakki Seizo Kabushiki Kaisha. Tone signal generation device. 4,706,537, 11-17-87, Cl. 84-1.030.

Oguri, Shigenori, to Nippon Gakki Seizo Kabushiki Kaisha. Automatic rhythm apparatus with tone level dependent timbres. 4,713,986, 12-22-87, Cl. 84-1.030.

Oguri, Shigenori: *See*—
Sugiyama, Jun; Suzuki, Akira; Terada, Kosei; Oguri, Shigenori; and Ishii, Shigeki, 4,672,876, Cl. 84-1.030.

Oguri, Shinichi: *See*—
Ohno, Akio; Tanaka, Kiyoharu; Takeda, Kenji; Yoshinaga, Kenji; Oguri, Shinichi; and Takada, Yusaku, 4,646,679, Cl. 118-691.000.

Oguri, Yasuo; Saito, Junji; and Kijima, Naoto, to Mitsubishi Chemical Industries Ltd. Boehmite. 4,716,029, 12-29-87, Cl. 423-625.000.

Oguri, Yukio: *See*—
Sasaki, Mitsuru; and Oguri, Yukio, 4,701,209, Cl. 71-97.000.
Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,552, Cl. 514-482.000.
Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,584, Cl. 514-485.000.
Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,666,938, Cl. 514-479.000.
Takahashi, Junya; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; Kato, Toshiro; and Kamoshita, Katsuzo, 4,672,070, Cl. 514-346.000.

Ogushi, Akira: *See*—
Morishita, Koichi; Omori, Shinji; Yamagata, Shimbu; Yokoyama, Tetsuo; Sano, Koichi; and Ogushi, Akira, 4,644,582, Cl. 382-6.000.

Ogushi, Kimio: *See*—
Ide, Yasuo; Ogushi, Kimio; and Yamauchi, Kazuhiro, 4,646,564, Cl. 73-147.000.

Ogushi, Yoshimi: *See*—
Suzuki, Nuchiro; Ogushi, Yoshimi; Imai, Kiyoshi; Ohta, Nobuhiro; and Ueno, Susumu, 4,639,285, Cl. 156-272.600.

Ogussa Osterreichische Gold-und-Silber-Scheidean stalt Scheid und Roessler Gesellschaft m.b.H. & Co. KG: *See*—
Prior, Adalbert; Marr, Rolf; and Bart, Hans J., 4,670,115, Cl. 204-109.000.

Ogusu, Chihaya: *See*—
Maruyama, Masanori; Moriya, Masamichi; Kato, Shinichi; Fuashima, Masakazu; Nonaka, Yasuhiko; and Ogusu, Chihaya, 4,682,077, Cl. 315-14.000.

Ogusu, Mikio; Urata, Kazuo; Tamaru, Takuya; and Kamoshita, Yasuhiko, to Nippon Gakki Seizo Kabushiki Kaisha. Shutter plate control device in a disc playback device. 4,646,285, 2-24-87, Cl. 369-291.000.

Ogusu, Mikio, to Nippon Gakki Seizo Kabushiki Kaisha. Disc case. 4,669,078, 5-26-87, Cl. 369-291.000.

Ogusu, Mikio: *See*—
Kamoshita, Yasuhiko; Tamaru, Takuya; Ogusu, Mikio; and Urata, Kazuo, 4,679,182, Cl. 369-77.200.
Tamaru, Takuya; and Ogusu, Mikio, 4,694,448, Cl. 369-291.000.

Oguti, Toshiko: *See*—
Yamamoto, Susumu; Sato, Toshiaki; Ikai, Takasi; Oguti, Toshiko; and Nawamaki, Tsutomu, 4,668,277, Cl. 71-92.000.
Yamamoto, Susumu; Sato, Toshiaki; Ikai, Takasi; Nawamaki, Tsutomu; and Oguti, Toshiko, 4,689,417, Cl. 548-376.000.

O'Gwynn, David C., to Ampex Corporation. Apparatus and method for adjusting the respective positions of a magnetic head and video information along a magnetic track. 4,689,706, 8-25-87, Cl. 360-14.200.

Oh-ishi, Tokuro: *See*—
Takeda, Mikio; Oh-ishi, Tokuro; Nakajima, Hiromichi; and Nagao, Taku, 4,665,068, Cl. 514-211.000.

Oh, Jang K.: *See*—
Oh, Sang S.; and Oh, Jang K., 4,692,647, Cl. 310-212.000.

Oh, Jang Kyun: *See*—
Oh, Sang S., 4,716,329, Cl. 310-183.000.

Oh, Sang S.; and Oh, Jang K. Rotor construction in an induction motor for eliminating rotor reaction. 4,692,647, 9-8-87, Cl. 310-212.000.

Oh, Sang S., to Oh, Jang Kyun, a part interest. Armature construction for eliminating armature reaction in electric rotating machines. 4,716,329, 12-29-87, Cl. 310-183.000.

Oh, Se J.: *See*—
Halling, Horace P.; and Oh, Se J., 4,643,463, Cl. 285-226.000.

Oh, Seibang, to Littelfuse, Inc. Fuse assembly having a non-sagging suspended fuse link. 4,635,023, 1-6-87, Cl. 337-163.000.

Oh, Seibang, to Littelfuse, Inc. Electrical fuse. 4,670,729, 6-2-87, Cl. 337-264.000.

Oh, Young S.; and Gosselink, Eugene P., to Procter & Gamble Company, The. Detergent compositions containing cationic compounds having clay soil removal/anti-redeposition properties. 4,664,848, 5-12-87, Cl. 252-547.000.

Oh, Young S.; Dahlgren, Richard M.; and Russell, Glen D., to Procter & Gamble Company, The. Shampoo compositions. 4,704,272, 11-3-87, Cl. 424-70.000.

Ohachi, Yoshimori, to Terumo Kabushiki Kaisha. Medical instrument used for storage of blood. 4,657,542, 4-14-87, Cl. 604-410.000.

nori, to Terumo Kabushiki Katsha. Polyvinyl chloride
l instrument and method of making. 4,664,115, 5-12-87,
00.
nori: See—
Toshiji; and Ohachi, Yoshinori, 4,657,541, Cl.
000.
G., and Nolan, Michael E., to British Gas Corporation.
lowmeter. 4,646,575, 3-3-87, Cl. 73-861.310.
Joseph; Laauwe, Robert H.; Roggenburg, Stanley L.,
lly, Michael E. Fixture for bag-type liquid dispenser.
6-87, Cl. 222-95.000.
osemary: See—
tjava K.; Winans, Esther D.; O'Halloran, Rosemary; and
r, Phillip W., 4,693,838, Cl. 252-51.50R.
i: See—
shikatsu; Yokoyama, Shoichiro; Ohama, Chiaki; and
Ryosuke, 4,670,288, Cl. 427-4.000.
o: See—
Takashi; and Ohama, Fumio, 4,659,757, Cl. 523-436.000.
Stephen. Garment hanger. 4,711,488, 12-8-87, Cl.
nomos A., to Flow Industries, Inc. Leakproof high pres-
assembly. 4,660,773, 4-28-87, Cl. 239-596.000.
m: See—
Edward; Kirby, Mike; Mercer, John; O'Hanlon, Tom;
nan, Jim; Theimer, Ken; and Svendsen, Robert, 4,674,579,
-45.000.
nd: See—
a, Seizo, 4,709,74-, Cl. 164-35.000.
so; and Nakamura, Seizo, 4,700,769, Cl. 164-514.000.
k; and Miller, John W., to Black & Decker Inc. Depth-
ystem for a power tool. 4,647,260, 3-3-87, Cl. 408-241.00S.
J.; and Phillips, David B., to Intelligent Medical Systems,
osable speculum. 4,662,360, 5-5-87, Cl. 128-9.000.
ald J.: See—
Mary B.; Cano, Francis R.; O'Hara, Gerald J.; English,
D.; and Lin, Wenli, 4,686,102, Cl. 424-92.000.
and Nakamura, Seizo, to Ohara Co., Ltd. Casting appara-
nium or titanium alloy. 4,700,769, 10-20-87, Cl. 164-514.000.
n G.; Powers, Frederick A.; and Peter, Steven E., to Graco
ge preventing liquid supply pump. 4,681,516, 7-21-87, Cl.
0.
umobu; Tanaka, Keiji; Ando, Yujiro; and Moriyama, Inao,
Kabushiki Kaisha. Electrophotographic process with a
ductive screen. 4,675,261, 6-23-87, Cl. 430-53.000.
ichi: See—
akashi; Shibata, Nobuho; and Ohara, Kenichi, 4,692,676, Cl.
99.000.
higeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Taka-
,676,180, Cl. 112-277.000.
higeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Taka-
,691,653, Cl. 112-275.000.
higeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Taka-
,719,688, Cl. 318-603.000.
, Nobuho; Yasunobu, Isanu; Neki, Shigeo; Ohara, Kenichi;
Dohi, Takashi, 4,682,095, Cl. 318-778.000.
aki: See—
Yasushi; Kondo, Hitoshi; Yokoyama, Goro; and Ohara,
aki, 4,690,965, Cl. 524-236.000.
oru: See—
umi, Chikao; Fujii, Takayoshi; Furusho, Takao; Matsunaga,
ichi; Ohara, Minoru; and Kobayashi, Akira, 4,663,438, Cl.
595.000.
gnium Chemical Co., Ltd.: See—
, Etsuo, 4,686,247, Cl. 523-213.000.
nnichiro; Takahashi, Yohnosuke; Naruo, Kyoichi; and
ii, Fumiaki, to Fuji Photo Film Co., Ltd. Information record-
um using laser beam. 4,656,118, 4-7-87, Cl. 430-272.000.
nichiro: See—
i, Takeji; Ohara, Shinichiro; and Yabe, Masao, 4,663,276, Cl.
272.000.
uichi: See—
Hiroyuki; Akasaka, Shinichi; Ohara, Shuichi; Hattori, Shin-
n; Mori, Yasuki; Narahara, Toshikazu; and Matsumoto,
shi, 4,690,858, Cl. 428-216.000.
sara, Tooru; Tsuchitani, Shigeki; Kinjo, Noriyuki; and Ohara,
ichi, 4,642,601, Cl. 338-35.000.
unji; Yoshida, Tomio; Satoh, Isao; and Koishi, Kenji, to
ita Electric Industrial Company, Ltd. Optical recording and
cing head. 4,689,780, 8-25-87, Cl. 369-44.000.
unji: See—
da, Tomio; and Ohara, Shunji, 4,679,184, Cl. 369-112.000.
da, Tomio; Nakata, Yoshinobu; Ohara, Shunji; and Satoh,
ao, 4,700,336, Cl. 369-44.000.
uro; and Kitamura, Ryoichi, to Goyo Paper Working Co.,
nufacturing method of release paper. 4,702,874, 10-27-87, Cl.
.000.
uhio: See—
uchi, Yoshiyuki; Ohara, Toshio; and Takahashi, Toshio,
56,342, Cl. 165-152.000.
sunemasa; Suzuki, Masayuki; Tosaka, Yoichi; Kobayashi,
; Harada, Yoshihito; and Kawamura, Masaharu, to Canon
ki Kaisha. Motorized camera. 4,671,635, 6-9-87, Cl.
100.
Ohara, Tsunemasa: See—
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,679,925, Cl. 354-173.100.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,690,532, Cl. 354-173.110.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,697,899, Cl. 354-173.110.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,699,487, Cl. 354-173.100.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,716,428, Cl. 354-173.110.
Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,659,201, Cl. 354-152.000.
Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,673,272, Cl. 354-173.110.
Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kawamura, Masaharu; Harada, Yoshihito; and Kobayashi, Ryuichi, 4,699,488, Cl. 354-173.110.

Ohara, Waturu: See—
Isobe, Minoru; Imai, Shuichi; Hiroki, Toru; Kodama, Tadasi; and Ohara, Waturu, 4,688,955, Cl. 400-248.000.

Ohara, Yoshio: See—
Takahashi, Yasuhiro; Arai, Kazutaka; Ohara, Yoshio; Matsumoto, Hiroo; and Tsuchiya, Syuuzi, 4,709,082, Cl. 560-105.000.

Ohara, Yuji, to Fuji Photo Film Co., Ltd. Laser apparatus. 4,697,269, 9-29-87, Cl. 372-34.000.

Ohara, Yuji: See—
Fukai, Nobutaka; Ohara, Yuji; and Agano, Toshitaka, 4,648,685, Cl. 350-6.600.
Horikawa, Kazuo; and Onara, Yuji, 4,638,156, Cl. 250-235.000.
Itakura, Toru; Ohara, Yuji; and Horikawa, Kazuo, 4,659,180, Cl. 350-320.000.
Kato, Hisatoyo; Kawai, Yasuhiro; Ohara, Yuji; Okamoto, Yoshihiko; Taniguchi, Yutaka; and Horikawa, Kazuo, 4,676,582, Cl. 350-6.500.

O'Hare, Louis. Wire engine for water pumps. 4,646,523, 3-3-87, Cl. 60-641.130.

O'Hare, Louis R. Convection powered solar heater for water tanks. 4,681,089, 7-21-87, Cl. 126-434.000.

O'Hare, Louis R. Multiple oxidation nitrogen fixation. 4,705,670, 11-10-87, Cl. 422-186.040.

O'Harra, Dale G., II, to Edward Weck & Company, Inc. Power switching circuit for a pulsed laser. 4,635,265, 1-6-87, Cl. 372-25.000.

Ohashi, Azusa; Shirai, Akira; Sakaki, Hirokazu; Tanabe, Zenichi; Tsuchida, Shin; and Hayashi, Yoshikatsu, to Fuji Photo Film Co., Ltd.; and Sumitomo Light Metal Industries, Ltd. Aluminum alloy, a support of lithographic printing plate and a lithographic printing plate using the same. 4,634,656, 1-6-87, Cl. 430-278.000.

Ohashi, Hiromichi, to Tokyo Shibaura Denki Kabushiki Kaisha. Radiation controllable thyristor with multiple non-concentric amplified stages. 4,649,410, 3-10-87, Cl. 357-30.000.

Ohashi, Hiromichi: See—
Nakagawa, Akio; Ohashi, Hiromichi; Yamaguchi, Yoshihiro; Watanabe, Kiminori; and Thukakoshi, Thuneo, 4,672,407, Cl. 357-23.400.
Nakagawa, Akio; and Ohashi, Hiromichi, 4,689,647, Cl. 357-23.400.
Nakagawa, Akio; Ohashi, Hiromichi; Ogura, Tsuneo; and Shimbo, Masaru, 4,700,466, Cl. 437-247.000.

Ohashi, Hiroshi: See—
Okada, Fumio; Tanaka, Masaki; and Ohashi, Hiroshi, 4,677,178, Cl. 528-34.000.

Ohashi, Hisao: See—
Hata, Katsuhiko; Ohashi, Hisao; Honda, Keiji; and Yamakami, Takahiko, 4,682,962, Cl. 445-5.000.

Ohashi, Isao: See—
Tanagawa, Koji; and Ohashi, Isao, 4,636,945, Cl. 364-200.000.

Ohashi, Kaoru; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nakamura, Kazumasa; and Nomura, Yoshihisa, to Toyota Jidosha Kabushiki Kaisha. Wheel slip controlling system. 4,685,547, 8-11-87, Cl. 192-3.00R.

Ohashi, Kaoru: See—
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,634,143, Cl. 280-707.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,647,068, Cl. 280-707.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,667,978, Cl. 280-707.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,671,533, Cl. 280-707.000.
Asami, Ken; Onuma, Toshio; Ohashi, Kaoru; and Buma, Shuuichi, 4,690,429, Cl. 280-707.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,715,616, Cl. 280-707.000.
Buma, Shuuichi; Yokoya, Yuji; Araki, Hitoshi; Hirose, Masanori; Miyata, Hiroshi; and Ohashi, Kaoru, 4,666,135, Cl. 267-64.210.
Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,693,494, Cl. 280-707.000.
Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,714,271, Cl. 280-707.000.

Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,714,272, Cl. 280-707.000.
Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nomura, Yoshihisa; and Ohashi, Kaoru, 4,637,487, Cl. 180-197.000.
Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Ohashi, Kaoru; and Nomura, Yoshihisa, 4,681,374, Cl. 303-106.000.
Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, 4,648,663, Cl. 303-106.000.
Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, 4,681,373, Cl. 303-106.000.
Yokoya, Yuji; Buma, Shuuichi; Araki, Hitoshi; Miyata, Hiroshi; Hirose, Masanori; and Ohashi, Kaoru, 4,648,621, Cl. 280-707.000.
Ohashi, Keiichi, to Skylight Industry Co. Ltd. Mount structures for suspender members of portable flashlights. 4,682,275, 7-21-87, Cl. 362-191.000.
Ohashi, Keiichi, to Skylite Industry Co., Ltd. Portable lighting arrangement. 4,704,663, 11-3-87, Cl. 362-206.000.
Ohashi, Keiichi, to Skylite Industry Co., Ltd. Switch structures in portable flashlights. 4,709,310, 11-24-87, Cl. 362-205.000.
Ohashi, Ken: *See*—
Tawara, Yoshio; and Ohashi, Ken, 4,678,634, Cl. 419-30.000.
Ohashi, Kunio; Tonegawa, Tadashi; Nagata, Shoichi; and Nakamura, Masatsugu, to Sharp Kabushiki Kaisha. Doped amorphous silicon photoconductive device having a protective coating. 4,683,186, 7-28-87, Cl. 430-84.000.
Ohashi, Makoto: *See*—
Yoshida, Hiroshi; Toyoshima, Takefumi; Iwabori, Tomio; Ohkura, Hideaki; Miyamoto, Yasuo; Nishimura, Izumi; Oikawa, Toshiyuki; Sekijima, Kenji; and Ohashi, Makoto, 4,709,898, Cl. 248-562.000.
Ohashi, Masahisa; and Masuda, Hiroyuki, to Hitachi, Ltd. Operation control method for nuclear reactor. 4,647,421, 3-3-87, Cl. 376-216.000.
Ohashi, Masakazu: *See*—
Matsui, Yoshimitsu; Horiguchi, Michiyuki; and Ohashi, Masakazu, 4,672,543, Cl. 364-200.000.
Ohashi, Mashato: *See*—
Tanaka, Tsuneo; Yoshitomi, Tetsuro; Hanada, Koji; Ohashi, Mashato; and Hikosaka, Michichika, 4,708,903, Cl. 428-195.000.
Ohashi, Mikio: *See*—
Watanabe, Hiroyuki; and Ohashi, Mikio, 4,653,802, Cl. 296-203.000.
Ohashi, Minoru; Arakawa, Nobuhiko; Asahara, Tomoko; and Sakamoto, Shuichi, to Oriental Yeast Co. Ltd.; Oriental Electric Co., Ltd.; and Zaiden Hojin Shokuhin Sangyo Senta. Method for determining the freshness of fish and mollusks. 4,650,752, 3-17-87, Cl. 435-15.000.
Ohashi, Minoru; and Kaneko, Satoshi, to Mitsubishi Paper Mills, Ltd. Silver halide photographic light-sensitive materials. 4,702,999, 10-27-87, Cl. 430-445.000.
Ohashi, Minoru: *See*—
Yokoyama, Tadashi; Kaizuka, Toshio; Naito, Junichi; Numazawa, Kenichi; Ohashi, Minoru; and Kikuchi, Tomoo, 4,665,736, Cl. 73-19.000.
Ohashi, Naohito; Nagata, Shoji; Nakatsuka, Masashi; Ishizumi, Kikuo; Katsube, Junki; Aono, Shunji; and Sakurama, Teruo, to Sumitomo Pharmaceuticals Company, Ltd. Phenylserine derivatives and processes for preparing the same. 4,695,580, 9-22-87, Cl. 514-412.000.
Ohashi, Naohito: *See*—
Ishizumi, Kikuo; Ohashi, Naohito; Tanno, Norihiko; Sato, Hiromi; Fukui, Masaru; and Morisada, Shinya, 4,673,668, Cl. 514-34.000.
Ohashi, Osamu: *See*—
Nagata, Tetsuya; and Ohashi, Osamu, 4,688,354, Cl. 51-165.800.
Ohashi, Ryoichi; and Inaba, Hitoshi, to Yanmar Diesel Engine Co., Ltd. Structure of a main combustion chamber of a diesel engine of a direct injection type. 4,635,597, 1-13-87, Cl. 123-276.000.
Ohashi, Ryota; Kawamura, Masahisa; and Shibata, Jiro, to Kanzaki Kokyukoki Mfg. Co., Ltd. Hydraulic system in working vehicles. 4,637,482, 1-20-87, Cl. 180-132.000.
Ohashi, Ryota; Kawamura, Masahisa; and Fujisaki, Koichiro, to Kanzaki Kokyukoki Mfg. Co., Ltd. Fluid supply system for working vehicles. 4,643,442, 2-17-87, Cl. 280-461.00A.
Ohashi, Ryutaro: *See*—
Nogi, Munehiro; Ohashi, Ryutaro; Miyazaki, Koichiro; Tanaka, Takashi; Tamakoshi, Koichiro; Tamano, Yoshiziro; Wakita, Syotaro; and Suzuki, Toshimitsu, 4,641,671, Cl. 134-57.00D.
Ohashi, Saichiro: *See*—
Okano, Takeshi; Nakaoka, Sadaaki; and Ohashi, Saichiro, 4,640,597, Cl. 353-79.000.
Ohashi, Sakuhei, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for in situ chamfering motor commutator segments. 4,668,139, 5-26-87, Cl. 409-302.000.
Ohashi, Shigeo, to Nihon Kaiheiki Kogyo Kabushiki Kaisha. Printed wiring board mounted control instrument. 4,707,765, 11-17-87, Cl. 361-401.000.
Ohashi, Takehisa: *See*—
Takahashi, Satomi; Inoue, Kenji; Yanagida, Yoshifumi; Ohashi, Takehisa; and Watanabe, Kiyoshi, 4,716,235, Cl. 548-533.000.
Uchino, Hayashi; Azuma, Masaaki; Ohashi, Takehisa; and Watanabe, Kiyoshi, 4,649,197, Cl. 544-258.000.
Ohashi, Tamaki, to Nihon Technical Kabushiki Kaisha. Push-button tuner. 4,635,490, 1-13-87, Cl. 74-10.330.
Ohashi, Toshio; Ichimaru, Yoshiro; Ishimaru, Junpei; and Hagiken, Hirofumi, to Nissan Motor Company, Limited. Air conditioner. 4,660,461, 4-28-87, Cl. 98-2.010.
Ohashi, Toshio; and Yamamoto, Shukou, to Nissan Motor Co., Ltd. and Nihon Radiator Co., Ltd. Transistor protection device. 4,682,208, 7-21-87, Cl. 357-81.000.
Ohashi, Toshio: *See*—
Ichimaru, Yoshiro; Kobayashi, Shigeru; and Ohashi, Toshio, 4,709,751, Cl. 165-17.000.
Ito, Masashi; Ohashi, Toshio; and Ui, Katsumi, 4,639,272, Cl. 106-243.000.
Muto, Yoshihiko; Ohashi, Toshio; and Adachi, Tsuneaki, 4,691,862, Cl. 237-12.30A.
Ohashi, Wataru: *See*—
Tsutsumi, Kazuhiko; Ohashi, Wataru; Ninomiya, Takeyoshi; and Temma, Masami, 4,660,617, Cl. 164-451.000.
Ohashi, Yasuo: *See*—
Tanaka, Haruma; and Ohashi, Yasuo, 4,697,445, Cl. 72-68.000.
Ohashi, Yoichi: *See*—
Hirata, Tadashi; Matsukuma, Ikuo; Yoshiie, Shigeo; Sato, Kiyoshi; and Ohashi, Yoichi, 4,708,956, Cl. 514-210.000.
Ohashi, Yoshiharu: *See*—
Tsunoyama, Kouzou; Tunimoto, Wataru; Ohashi, Yoshiharu; Kimura, Shigeyuki; and Asakawa, Fumio, 4,652,128, Cl. 356-318.000.
Tsunoyama, Kouzou; Ohashi, Yoshiharu; Furumushi, Yasuko; and Konishi, Motoyuki, 4,690,558, Cl. 356-318.000.
Ohashi, Yoshihiro, to Alps Electric Co., Ltd. Construction for electrical control panel. 4,679,025, 7-7-87, Cl. 338-197.000.
Ohashi, Yoshimitsu: *See*—
Sanpei, Keiichi; Satoh, Yoshitaka; and Ohashi, Yoshimitsu, 4,669,549, Cl. 172-112.000.
Ohashi, Yoshio, to Kansaka Co., Ltd. Ladder attaching device. 4,706,780, 11-17-87, Cl. 182-93.000.
Ohashi, Yuichi: *See*—
Ogawa, Tadashi; Arakawa, Jun; Nagaoka, Satoshi; Ohashi, Yuichi; and Tamoto, Koji, 4,652,515, Cl. 430-505.000.
Ohata, Hideo: *See*—
Wakamori, Fumio; Ohata, Hideo; Miyaoka, Shinichiro; and Funabashi, Motohisa, 4,712,182, Cl. 364-507.000.
Ohata, Isao: *See*—
Kojima, Tadao; Kageyama, Shunji; Okada, Minoru; Ohata, Isao; and Sato, Noboru, 4,690,932, Cl. 514-337.000.
Ohata, Tomohisa; Terui, Sadao; and Shiraishi, Eiichi, to Nippon Shokubai KagAKU Kogyo Co., Ltd. Catalyst for purifying exhaust gas. 4,708,946, 11-24-87, Cl. 502-304.000.
Ohata, Yosuke: *See*—
Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,636,057, Cl. 355-3.00R.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,281, Cl. 355-3.0DD.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,295, Cl. 355-8.000.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Keiichiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,714,339, Cl. 355-3.0FU.
Ohaus Scale Corporation. *See*—
Brock, Marilyn A.; and Scheffer, Daniel G., 4,679,642, Cl. 177-164.000.
Scheffer, Daniel G.; and Brock, Marilyn A., 4,697,658, Cl. 177-229.000.
Ohaya, Katsumi: *See*—
Nozawa, Shigenori; Ohaya, Katsumi; and Kawazoe, Toshio, 4,678,666, Cl. 424-81.000.
Ohayon, Gabriel, to Rhone-Poulenc Fibres. Process and apparatus for the simultaneous throwing of several textile threads delivered continuously. 4,646,981, 3-3-87, Cl. 242-18.0PW.
Ohayon, Jacques J.; and Williams, Glen P., to Ohayon, Jacques J. Outpatient monitoring systems. 4,712,562, 12-15-87, Cl. 128-672.000.
Ohba, Hiroyuki: *See*—
Arakawa, Hideo; Sugiyama, Gunji; Tange, Koichi; Hongo, Takeru; Yamamoto, Yuzo; and Ohba, Hiroyuki, 4,700,302, Cl. 364-424.000.
Ohba, Hisao: *See*—
Nakanishi, Haruo; Ohba, Hisao; and Sakaki, Hirokazu, 4,686,021, Cl. 204-129.750.
Ohba, Hitoshi: *See*—
Itoh, Kenichi; Noguki, Genji; Tanaka, Motoaki; and Ohba, Hitoshi, 4,694,053, Cl. 526-74.000.
Ohba, Masahiro; Sugimoto, Hiroshi; Kamiya, Toru; Yamazaki, Toru; Tanabe, Hidemichi; Hirano, Satoshi; Namba, Hideaki; Matsui, Katsumasa; and Miura, Hisahiro, to Nippondenso Co., Ltd. Vehicle-mounted electronic apparatus. 4,668,873, 5-26-87, Cl. 307-9.000.
Ohba, Masahiro: *See*—
Kamei, Eiichi; Namba, Hideaki; Takao, Mitsunori; Ohba, Masahiro; Yonekawa, Masao; and Kiyono, Masashi, 4,653,449, Cl. 123-478.000.
Kamei, Eiichi; Namba, Hideaki; and Ohba, Masahiro, 4,693,485, Cl. 280-6.00R.
Matsui, Katsumasa; Ohba, Masahiro; Kakehi, Tohru; and Kawai, Takayoshi, 4,696,167, Cl. 62-180.000.
Sakai, Tuguyasu; Namba, Hideaki; and Ohba, Masahiro, 4,639,871, Cl. 364-431.100.

See—
oshiaki; Izawa, Hideo; and Ohba, Masaru, 4,690,051, Cl. 00.
oshiaki; Izawa, Hideo; and Ohba, Masaru, 4,706,566, Cl. 00.
hi; Sato, Ryuichi; and Taniguchi, Tsutomu, to Omron ronics Co. Multi pole piezoelectrically operating relay. 31-87, Cl. 310-332.000.
hi; Sato, Ryuichi; and Taniguchi, Tsutomu, to Omron ronics Co. Drive circuit for a piczoelectric actuator. 14-87, Cl. 307-154.000.
See—
ichi; Taniguchi, Tsutomu; and Ohba, Masatoshi, , Cl. 310-316.000.
See—
lorikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, and Yamashita, Sadahiko, 4,638,180, Cl. 307-219.100.
lorikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, and Yamashita, Sadahiko, 4,679,003, Cl. 331-1.00A.
Sadahiko; Hasegawa, Makoto; Ohba, Motoi; Kikuchi, Shishido, Tsutomu, 4,661,998, Cl. 455-315.000.
See—
Tetsu; and Ohba, Osam, 4,654,548, Cl. 307-450.000.
Tetsu; and Ohba, Osam, 4,716,310, Cl. 307-446.000.
See—
ra; Nakai, Masaaki; Ando, Haruhisa; Ozaki, Toshifumi; Shinya; Ono, Hideyuki; and Akiyama, Toshiyuki, , Cl. 358-213.240.
See—
Takashi; and Ohba, Takeo, 4,642,544, Cl. 318-696.000.
See—
oshihide; Harada, Shigeyuki; Ohba, Toshihiro; Kanatani, u; and Uede, Hisashi, 4,686,426, Cl. 315-169.300.
See—
Norihide; Kondo, Tetsuya; Ohba, Yasumasa; and Ma- ichihiro, 4,647,191, Cl. 355-56.000.
Norihide; Kondo, Tetsuya; Ohba, Yasumasa; and Ma- ichihiro, 4,693,595, Cl. 355-77.000.
aruo; and Ohba, Yuji, 4,662,122, Cl. 51-165.710.
See—
mi; and Ohbayashi, Akira, 4,703,370, Cl. 360-10.200.
See—
u; Abiru, Norifumi; and Ohbayashi, Eiji, 4,680,950, Cl. 0.
i, Ltd.; *See*—
oshio; Aoyagi, Toru; Kawaguchi, Akihisa; and e, Shigeki, 4,706,419, Cl. 52-65.000.
azuhiko; Tsunekane, Kinichiro; Shidara, Hajime; and Tadashi, 4,653,674, Cl. 222-342.000.
eiji, 4,715,726, Cl. 374-102.000.
See—
Shinichi; and Ohbayashi, Keiji, 4,713,317, Cl. 0.
See—
Soichi; Hayasaka, Toshiaki; and Ohbayashi, Yasuo, , Cl. 518-713.000.
See—
shio; Fukuda, Masahiro; and Ohbu, Kazuo, 4,654,132, 82.800.
See—
Tomobumi; Mori, Toshihiko; Hirose, Masayuki; Ohbu- i; Miyata, Masanori; Nakamura, Shinichi; and Honjo, 4,712,908, Cl. 355-14.0SH.
Abiru, Norifumi; and Ohbayashi, Eiji, to Asahi-Seiki g Co., Ltd. Method of and an apparatus for forming gs with German type hooks. 4,680,950, 7-21-87, Cl.
Suga, Michiharu; Kato, Akifumi; Kobayashi, Toshio; a, Akira, to Mitsui Petrochemical Industries Ltd. Ther- n composition. 4,670,508, 6-2-87, Cl. 525-64.000.
Oikawa, Tomohiro; Shimizu, Kenichi; Seto, Takashi; sahiro; Suzuki, Shigeru; and Tagoku, Izumi, to Ricoh d. Copying method for bookbinding. 4,640,611, 2-3-87, .
See—
Kiyoshi; Suzuki, Shigeru; Mashiko, Harumitsu; and Eisyu, 4,707,126, Cl. 355-14.0SH.
See—
Masaharu; and Ohe, Hiroaki, 4,678,566, Cl. 210-143.000.
Masaki; Ohe, Junya; Mishima, Akifumi; and Saitoh, 559,632, Cl. 428-679.000.
Kondo, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. ntenna device. 4,679,052, 7-7-87, Cl. 343-712.000.
Kondo, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. ntenna system. 4,707,701, 11-17-87, Cl. 343-712.000.
o Mitsubishi Rayon Co., Ltd. Light diffusing device. 0-87, Cl. 350-321.000.
and Ito, Yuji, to Canon Kabushiki Kaisha. Particle aratus. 4,643,566, 2-17-87, Cl. 356-72.000.
uji, Tadaaki; and Koike, Ichiro, to Jidosha Kiki Co., apparatus for vehicle. 4,645,025, 2-24-87, Cl.
Ohe, Takeshi; Koike, Ichiro; and Konishi, Hideo, to Jishoda Kiki Co., Ltd. Electrical power steering apparatus. 4,666,011, 5-19-87, Cl. 180-79.100.
Ohe, Takeshi; Taniguchi, Yoshiaki; and Arai, Minoru, to Jidosha Kiki Co., Ltd. Electric power steering apparatus. 4,686,438, 8-11-87, Cl. 318-280.000.
Ohe, Takeshi: *See*—
Suzuki, Yoshio; Ohe, Takeshi; and Koike, Ichiro, 4,681,182, Cl. 180-79.100.
Ohga, Akihiro: *See*—
Hishinuma, Kazuhiro; and Ohga, Akihiro, 4,683,377, Cl. 250-327.200.
Ohga, Juro: *See*—
Miyoshi, Masato; Kaneda, Yutaka; and Ohga, Juro, 4,683,590, Cl. 381-71.000.
Ohga, Kazuhiro: *See*—
Erickson, Bruce W.; Fok, Kam-Fook; Incefy, Genevieve S.; and Ohga, Kazuhiro, 4,634,682, Cl. 436-518.000.
Ohga, Shinji: *See*—
Hatakeyama, Takuya; and Ohga, Shinji, 4,713,024, Cl. 439-555.000.
Ohgaki, Kenji; and Sato, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Digital protective relay monitoring system. 4,689,570, 8-25-87, Cl. 324-418.000.
Ohgami, Katsuya, to Sharp Kabushiki Kaisha. Method for storing graphic information in memory. 4,700,182, 10-13-87, Cl. 340-750.000.
Ohgami, Masaaki, to Fuji Jukogyo Kabushiki Kaisha; and Van Doorne's Transmissie B.V. System for controlling the transmission ratio of an infinitely variable transmission. 4,680,990, 7-21-87, Cl. 74-868.000.
Ohgami, Masaaki; Yasuda, Hiroki; and Kubota, Masaharu, to Fuji Jukogyo Kabushiki Kaisha. Air-fuel ratio control system. 4,697,564, 10-6-87, Cl. 123-440.000.
Ohgami, Masaaki: *See*—
Kodama, Masayuki; and Ohgami, Masaaki, 4,664,216, Cl. 180-233.000.
Nakamura, Hiroyuki; and Ohgami, Masaaki, 4,663,991, Cl. 74-868.000.
Ohgita, Kazuyuki: *See*—
Anzai, Shunju; Sasaki, Hiromu; Kunikawa, Norihide; and Ohgita, Kazuyuki, 4,713,550, Cl. 250-560.000.
Ohgoda, Makoto; and Tamura, Kaoru, to Fuji Photo Film Co., Ltd. Device for feeding and positioning recording medium. 4,640,507, 2-3-87, Cl. 271-245.000.
Ohgoda, Makoto; Tamura, Kaoru; and Kawai, Yasuhiro, to Fuji Photo Film Co., Ltd. Apparatus for scanning sheet-shaped recording medium with a bending roller. 4,694,163, 9-15-87, Cl. 250-234.000.
Ohgoda, Makoto; and Tamura, Kaoru, to Fuji Photo Film Co., Ltd. Radiation image recording apparatus with a movable recording table unit. 4,704,529, 11-3-87, Cl. 250-327.200.
Ohgoda, Makoto; and Tamura, Kaoru, to Fuji Photo Film Co., Ltd. Apparatus for scanning sheet-shaped recording medium. 4,712,009, 12-8-87, Cl. 250-327.200.
Ohgoshi, Seiichi: *See*—
Yamada, Hisashi; and Ohgoshi, Seiichi, 4,705,941, Cl. 250-201.000.
Ohguma, Hirotsugu; Harada, Mitsuo; Saura, Hideaki; and Yasuda, Satoshi, to Kabushiki Kaisha Toshiba. Cryogenic apparatus. 4,689,970, 9-1-87, Cl. 62-514.00R.
Ohgushi, Kikuo; Yoshikawa, You; Ohnishi, Isao; and Matsuura, Haruo, to Toki Haibai Co., Ltd. Soft ice cream maker. 4,669,275, 6-2-87, Cl. e2-342.000.
Ohgushi, Yoshiyuki. Surface coating agent and method for using the same in civil and construction engineering. 4,714,507, 12-22-87, Cl. 156-91.000.
Ohhara, Minoru: *See*—
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,637,998, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,649,133, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,657,895, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,663,312, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,673,669, Cl. 514-42.000.
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, 4,708,950, Cl. 514-42.000.
Ohhashi, Kunimi, to Canon Kabushiki Kaisha. Ultrasonic wave cleaning apparatus and method. 4,672,984, 6-16-87, Cl. 134-56.00R.
Ohhashi, Kuniyoshi: *See*—
Tanaka, Hideo; Ohhashi, Kuniyoshi; Gomi, Tatsuya; and Dobashi, Tomoyuki, 4,649,054, Cl. 426-397.000.
Ohhashi, Toshiro: *See*—
Honda, Toshio; Ohhashi, Toshiro; and Ohtsubo, Yasuo, 4,715,247, Cl. 74-640.000.
Ohhata, Takahiko: *See*—
Hirosaki, Yukihiro; Koike, Seiji; Hamada, Motonobu; Ohhata, Takahiko; Inoue, Yasuo; Karibe, Haruyuki; and Hama, Hideki, 4,671,844, Cl. 156-542.000.
Ohhata, Yoshinori: *See*—
Tsuruta, Shoji; Minami, Hideaki; Ohhata, Yoshinori; and Sakai, Shinsuke, 4,699,118, Cl. 125-11.00R.

Ohhatsu Kabushiki Kaisha: *See*—
Itani, Jun, 4,635,753, Cl. 181-279.000.

Ohhira, Youichi: *See*—
Okada, Yoshio; Nakamura, Tadashi; and Ohhira, Youichi, 4,699,658, Cl. 106-21.000.
Okada, Yoshio; Nakamura, Tadashi; and Ohhira, Youichi, 4,699,659, Cl. 106-21.000.

Ohi, Katsuyuki: *See*—
Okada, Takashi; Mogi, Takao; Kobayashi, Hiroyuki; and Obi, Katsuyuki, 4,679,235, Cl. 380-70.000.

Ohi, Michio, to Dainippon Screen Mfg. Co., Ltd. Method of scanning and recording images. 4,642,699, 2-10-87, Cl. 358-280.000.

Ohi, Nobuhiro: *See*—
Mori, Takashi; Ohi, Nobuhiro; Ohsugi, Yoshiyuki; and Yamashita, Yasuhiro, 4,691,018, Cl. 546-309.000.

Ohi, Nobukazu; Ohno, Koji; and Tosaki, Satoshi, to G-C Dental Industrial Corp. Gypsum composition for denture investment. 4,647,311, 3-3-87, Cl. 106-35.000.

Ohi Sensakusho Co., Ltd.: *See*—
Hori, Yasuaki; and Kishima, Masayoshi, 4,701,977, Cl. 16-266.000.
Kobayashi, Fumio; and Yamagishi, Jun, 4,633,613, Cl. 49-227.000.
Maekawa, Junichi, 4,691,475, Cl. 49-352.000.
Moriya, Masaichi; Maekawa, Junichi; and Nakamura, Takeshi, 4,648,206, Cl. 49-352.000.
Nakamura, Hitoshi, 4,647,092, Cl. 292-216.000.
Nakamura, Takeshi; and Ujihara, Hiroshi, 4,663,886, Cl. 49-360.000.
Ohmura, Yutaka; and Shimura, Ryouji, 4,674,788, Cl. 296-1.00S.
Shimura, Ryoji; and Seko, Osamu, 4,634,156, Cl. 292-216.000.
Shimura, Ryoji; and Kato, Yuichi, 4,650,231, Cl. 292-340.000.
Takeshi, Tatsuyuki; Kobayashi, Fumio; Usui, Keizaburo; and Kagiyama, Tsutomu, 4,691,584, Cl. 74-471.00R.
Ujihara, Hiroshi, 4,637,166, Cl. 49-352.000.
Ujihara, Hiroshi, 4,644,694, Cl. 49-352.000.
Ujihara, Hiroshi; Nishijima, Hirotaka; Ugawa, Satoru; Kiroshita, Tomotaka; and Obushi, Satoshi, deceased, 4,669,222, Cl. 49-374.000.
Yamagishi, Jun; and Nishikawa, Hiromitu, 4,640050, Cl. 49-280.000.

Ohi, Shinichi, to Diesel Kiki Co., Ltd. Intake air control device for automotive air-conditioning apparatus. 4,671,073, 6-9-87, Cl. 62-161.000.

Ohi, Toshio, to Furukawa Co., Ltd.; and Okumura Corporation. Rock drills for drilling continuously arrayed bores. 4,681,170, 7-21-87, Cl. 173-50.000.

Ohigashi, Chiaki: *See*—
Iemura, Shigeru; and Ohigashi, Chiaki, 4,671,309, Cl. 137-93.000.

Ohigashi, Tsugio: *See*—
Iida, Koujirou; Yoshioka, Yasuo; Ogawa, Hiroshi; Haruno, Kiyoshi; and Ohigashi, Tsugio, 4,682,768, Cl. 271-3.100.

Ohigashi, Tugio: *See*—
Masho, Yukio; Kakmi, Shigeru; Ueki, Toru; Miyauchi, Satoshi; Ohigashi, Tugio; and Kurobata, Hitoshi, 4,705,154, Cl. 194-319.000.

Ohio Agricultural Research and Development Center, The: *See*—
Palmquist, Donald L.; and Jenkins, Thomas C., 4,642,317, Cl. 514-558.000.

Ohio Grain Company, The: *See*—
D'Aiello, Frank J., Jr., 4,673,576, Cl. 426-2.000.

Ohio State Research Foundation, The: *See*—
Swenton, John S.; Horton, Derek; Priebe, Waldemar; and Morrow, Gary W., 4,663,445, Cl. 536-6.400.

Ohio State University: *See*—
Anderson, Robert J.; Keener, Harold M.; and Henry, James E., 4,671,251, Cl. 126-99.00R.
Anderson, Robert J.; Keener, Harold M.; and Henry, James E., 4,676,733, Cl. 431-7.000.
Hotiuk, Harry A. J., 4,642,131, Cl. 71-6.000.
Rapp, Robert A.; and Mobley, Carroll E., 4,657,087, Cl. 165-1.000.
Stevens, Vernon C., 4,691,006, Cl. 530-324.000.
Trewyn, Ronald W.; and D'Ambrosio, Steven M., 4,617,733, Cl. 435-7.090.
Woelfel, Julian B., 4,654,005, Cl. 433-72.000.

Ohio State University Research Foundation, The: *See*—
Richardson, Richard W., 4,644,131, Cl. 219-124.340.
Stevens, Vernon C., 4,713,366, Cl. 514-13.000.
Swenton, John S.; Morrow, Gary W.; and Priebe, Waldemar, 4,697,005, Cl. 536-6.400.
Witiak, Donald T.; and Glover, Ronald M., 4,683,087, Cl. 260-396.00R.

Ohio University: *See*—
Collier, John R., 4,680,156, Cl. 264-171.000.

Ohira, Eiji: *See*—
Kitazume, Yoshiaki; Yasue, Toshikazu; Ohira, Eiji; Endo, Takeyuki; and Asou, Satoshi, 4,672,668, Cl. 381-43.000.

Ohira, Hiroyuki: *See*—
Ota, Minemasa; Matsumoto, Osamu; and Ohira, Hiroyuki, 4,680,745, Cl. 369-45.000.

Ohira, Masaki: *See*—
Moriyama, Masatoshi; and Ohira, Masaki, 4,695,328, Cl. 437-31.000.

Ohira, Masatoshi: *See*—
Nakano, Yoshihisa; Ohira, Masatoshi; Ushida, Manabu; Miyagawa, Tomoyuki; and Shimodaira, Toshiya, 4,635,959, Cl. 280-707.000.

Ohira, Shigeo; and Iwaki, Masaya, to Nippon Light Metal Company Limited; and Rikagaku Kenkyusho. Production of aluminum material having an aluminum nitride layer. 4,698,233, 10-6-87, Cl. 427-38.000.

Ohira, Tadashi: *See*—
Nishimori, Kadotaro; Yoshida, Keiji; and Ohira, Tadashi, 4,711,569, Cl. 355-69.000.
Ueda, Masahide; and Ohira, Tadashi, 4,705,458, Cl. 355-3.0DD.

Ohira, Tatsuo: *See*—
Kobayashi, Toshiaki; Arakawa, Hiromichi; and Ohira, Tatsuo, 4,642,324, Cl. 524-559.000.
Niina, Akihiko; Ohira, Tatsuo; and Miyamoto, Shigemi, 4,671,941, Cl. 422-131.000.

Ohira, Tsunehisa; Hirano, Shinji; and Sadakane, Koji, to Victor Company of Japan, Ltd. Helical scan type recording and/or reproducing apparatus. 4,642,713, 2-10-87, Cl. 360-85.000.

Ohira, Yohichi: *See*—
Okada, Yoshio; Akatsu, Masahiro; and Ohira, Yohichi, 4,714,495, Cl. 106-21.000.

Ohishi, Chikashi: *See*—
Kunichika, Kenji; Kagawa, Yoshikatsu; Ohishi, Chikashi; Nakao, Sho; and Asao, Yasuzi, 4,673,627, Cl. 430-49.000.

Ohishi, Fujio: *See*—
Sato, Yoshihiko; Ohishi, Fujio; Hongu, Tatsuya; Suzuki, Toshio; and Ogawa, Yoshihiko, 4,652,495, Cl. 428-425.500.

Ohishi, Hiroshi: *See*—
Kurimoto, Tatsuo; Hoboh, Yoshihiko; Ohishi, Hiroshi; Nouni, Ryoichi; and Wakano, Shigeru, 4,659,631, Cl. 428-624.000.

Ohishi, Hirotoshi: *See*—
Fujihara, Hiroaki; Fujii, Hiroshi; Ohishi, Hirotoshi; and Kobayashi, Yoshiaki, 4,641,001, Cl. 200-153.00G.

Ohishi, Shiro; and Shinozaki, Masatsugu, to Hitachi, Ltd. Data transmission method and system. 4,644,563, 2-17-87, Cl. 375-17.000.

Ohishi, Tetsu: *See*—
Ishigaki, Masaji; Ohishi, Tetsu; Tokusyuku, Nobuhiro; Kodera, Yoshie; and Fukui, Yukio, 4,645,712, Cl. 428-433.000.

Ohishi, Toshio; and Kurotobi, Yohji, to Honda Giken Kogyo Kabushiki Kaisha. Air cleaner device. 4,640,698, 2-3-87, Cl. 55-502.000.

Ohishi, Yasuro: *See*—
Nagai, Makoto; Horiuchi, Isamu; Hanada, Masamichi; Kuroda, Sigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasukabe, Kimito; Tsujita, Yuji; Etou, Hironori; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.00R.

Ohishi, Yoshitaka; Nagahara, Michiko; Kajikawa, Norio; Yajima, Motoyuki; Nogimori, Katsumi; and Kurokawa, Shigeki, to Kaken Pharmaceutical Co., Ltd. Benzofuran derivatives useful in treating diabetic complications. 4,666,931, 5-19-87, Cl. 514-389.000.

Ohiwa, Masaki: *See*—
Okajima, Yoshinori; and Ohiwa, Masaki, 4,675,555, Cl. 307-455.000.

Ohizumi, Masayuki: *See*—
Gotou, Masana; Isshiki, Minoru; Uozumi, Shoji; Ohizumi, Masayuki; and Fushiki, Yasuo, 4,662,973, Cl. 156-307.400.

Ohji, Kenzo: *See*—
Kawaguchi, Takao; Adachi, Hideaki; Setsune, Kentaro; Ohji, Kenzo; and Wasa, Kiyotaka, 4,715,680, Cl. 350-96.340.

Ohji, Nobuaki: *See*—
Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Ohji, Nobuaki; and Sashida, Kiyoshi, 4,707,057, Cl. 350-96.120.

Ohkado, Shinzo; and Kenjo, Hideki, to Toray Industries, Inc. Soft contact composition and method. 4,699,934, 10-13-87, Cl. 523-106.000.

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Higashino, Hiroyuki; and Ohkawa, Hideki, 4,696,721, Cl. 204-1.000.

Ohkawa, Kazuo: *See*—
Tsuchiya, Hiroshi; Morio, Kazuhiko; Murase, Hisashi; and Obkawa, Kazuo, 4,684,671, Cl. 522-31.000.

Ohkawa, Masahiro: *See*—
Sasaki, Torahiko; Sato, Kazuo; Ohkawa, Masahiro; Suzuki, Yoshihiro; Kubota, Masato; Nakao, Hatsuo; and Tange, Kyoichi, 4,696,870, Cl. 429-14.000.

Ohkawa, Masayoshi: *See*—
Okumura, Koichiro; and Ohkawa, Masayoshi, 4,680,488, Cl. 307-482.000.

Ohkawa, Masayuki: *See*—
Tsujimura, Osamu; Hasegawa, Ryoei; and Ohkawa, Masayuki, 4,679,968, Cl. 407-114.000.

Ohkawa, Shuji: *See*—
Nakamura, Hiro; Ohkawa, Shuji; Ohtsuka, Yasuo; Tachikawa, Hajime; and Shinozaki, Toshiya, 4,712,970, Cl. 414-730.000.

Ohkawa, Takashi: *See*—
Miyamura, Tamio; and Ohkawa, Takashi, 4,694,431, Cl. 365-189.000.

Ohkawa, Teppei: *See*—
Matsuura, Toshitaka; Ohkawa, Teppei; Furusaki, Keizo; and Takami, Akio, 4,652,849, Cl. 338-34.000.

Ohkawa, Tihiro; and Woolf, Lawrence D., to GA Technologies Inc. Coupled heterostructure superlattice devices. 4,665,412, 5-12-87, Cl. 357-6.000.

Ohkawa, Tihiro, to United States of America, Energy. Ion cyclotron range of frequencies heating of plasma with small impurity production. 4,710,339, 12-1-87, Cl. 376-123.000.

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Chan, Vincent S.; Chiu, Shiu-Chu; and Ohkawa, Tihiro, 4,688,227, Cl. 372-2.000.

an] Ito, Shigeru, to Honda Giken Kogyo Kabushiki
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Masaaki; Miyahara, Masayuki; and Ono, Yoshitaka,
Cl. 428-402.240.
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NEC Corporation. Inter-frame coding apparatus for
,651,206, 3-17-87, Cl. 358-136.000.
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Hirosawa, Toshio; Kurihara, Junichi; and Miyazaki,
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Toshio; Ohki, Masaru; Motobayashi, Shigeru; and
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Masakazu; Ohki, Nobutaka; Takahashi, Osamu; and
Hideaki, 4,704,350, Cl. 430-546.000.
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Ltd., JPX. Method and device for conveying chemicals
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Tsuruta, Koji; Nakagawa, Hideaki; and Shimada, Sato-
Corporation. Luminescent display device. 4,710,765,
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oshi, to Diesel Kiki Co., Ltd. Centrifugal governor for
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Yoshitaka; Hatano, Tsuyoshi; and Ohkubo, Hideo,
6, Cl. 15-367.000.
hiro: *See*—
oshi; Tokizaki, Hisashi; Funagoshi, Tomohide; Ohtsuka,
Ohkubo, Katsuhiro; and Katsuki, Hikaru, 4,698,744, Cl.
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See—
Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni;
ara, Shinji; and Ohkubo, Kazuo, 4,670,420, Cl.
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Yoshitaka; Yamauchi, Hirofumi; Sakurai, Shigeru; Oh-
enji; Kurita, Hideaki; and Yagi, Kunihiro, 4,665,690, Cl.
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Yasumasa; and Ohkubo, Masaharu, 4,682,876, Cl. 355-
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hiro, to Kabushiki Kaisha Daikin Seisakusho. Torque
aving valve means for detecting speed ratio of torque
,671,062, 6-9-87, Cl. 60-362.000.
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mechanism. 4,685,352, 8-11-87, Cl. 74-665.0GA.
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Setsuo; Fukuura, Yukio; Yoshikawa, Masato; Matsuda,
ki; Monobe, Hisanobu; Ohkubo, Shigeki; and Yoshida,
,657,285, Cl. 285-256.000.
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a, Takeyoshi; and Ohkubo, Shigeo, 4,643,238, Cl. 160-
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tsuro; and Ohkubo, Yasuo, 4,716,323, Cl. 307-594.000.
imichi: *See*—
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uchi; and Matsuo, Junichi, 4,649,004, Cl. 264-85.000.
i, to Nippon Kogaku K. K. Camera display device.
-27-87, Cl. 354-472.000.
Ohkubo, Yukitoshi; Kaneko, Shuzo; and Kanbe, Junichiro, to Canon Kabushiki Kaisha. Image forming apparatus. 4,671,642, 6-9-87, Cl. 355-3.00R.
Ohkubo, Yukitoshi: *See*—
Yokono, Koujiro; Kamio, Masaru; and Ohkubo, Yukitoshi, 4,714,636, Cl. 428-1.000.
Ohkubo, Yutaka: *See*—
Suzuki, Tadao; Nakamura, Shoichi; Nishioka, Hisao; and Ohkubo, Yutaka, 4,707,818, Cl. 369-59.000.
Ohkuma, Genji: *See*—
Saito, Shintaro; and Ohkuma, Genji, 4,669,146, Cl. 16-18.00A.
Ohkuma, Hiroaki: *See*—
Konishi, Masataka; Saitoh, Kyoichiro; Ohkuma, Hiroaki; and Kawaguchi, Hiroshi, 4,675,187, Cl. 424-117.000.
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Ohkuma, Kuniaki; Sakuma, Kazuyoshi; Miyao, Hisao; Yoshimura, Shinichi; Koizumi, Hideharu; and Miwa, Yoshitake, to Honda Giken Kogyo Kabushiki Kaisha. Component distribution device. 4,688,978, 8-25-87, Cl. 414-224.000.
Ohkuma, Kuniaki; Nakagawa, Reiji; Miyao, Hisao; Yoshimura, Shinichi; Suzuki, Toshio; Hayashi, Tsuyoaki; Arakawa, Masayasu; and Koizumi, Hideharu, to Honda Giken Kogyo Kabushiki Kaisha. Automatic parts feeder. 4,714,397, 12-22-87, Cl. 414-222.000.
Ohkuma, Osamu: *See*—
Matsumoto, Norio; Okuda, Shinya; Ohkuma, Osamu; and Seino, Mituyoshi, 4,641,980, Cl. 400-120.000.
Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.
Ohkuma, Taka'aki: *See*—
Umezawa, Hamao; Suzuki, Shintaro; Ohkuma, Taka'aki; Sato, Fumihiro; and Nakamura, Teruya, 4,710,517, Cl. 514-616.000.
Ohkuma, Yuji: *See*—
Motoki, Yasunari; and Ohkuma, Yuji, 4,637,146, Cl. 34-58.000.
Ohkumo, Hiroya, to Fuji Jukogyo Kabushiki Kaisha. Fuel cutoff system for a motor vehicle. 4,633,831, 1-6-87, Cl. 123-325.000.
Ohkuni, Shinichiro; and Tamada, Shinichi, to Bridgestone Tire Company Limited. Pneumatic tires for motorcycles. 4,706,724, 11-17-87, Cl. 152-454.000.
Ohkura Electric Co., Ltd.: *See*—
Motomiya, Takehiko, 4,639,952, Cl. 364-138.000.
Motomiya, Takehiko, 4,688,180, Cl. 364-477.000.
Sagara, Tatsuo; and Sakaue, Tadashi, 4,653,329, Cl. 73-726.000.
Shimizu, Osamu, 4,688,194, Cl. 364-571.000.
Ohkura, Hideaki: *See*—
Yoshida, Hiroshi; Toyoshima, Takefumi; Iwabori, Tomio; Ohkura, Hideaki; Miyamoto, Yasuo; Nishimura, Izumi; Ohkawa, Toshiyuki; Sekijima, Kenji; and Ohashi, Makoto, 4,709,898, Cl. 248-562.000.
Ohkura, Kosuke: *See*—
Mouri, Hidemasa; Tobita, Michiaki; Eto, Naonobu; Kouno, Shunzo; Ohkura, Kosuke; Togaaoh, Shigeo; Arai, Ryuichi; Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hiromi, 4,642,247, Cl. 427-214.000.
Ohkura, Makoto: *See*—
Sunami, Hideo; Ohkura, Makoto; and Kimura, Shinichiro, 4,670,768, Cl. 357-42.000.
Warabisako, Terunori; Ohkura, Makoto; and Miyao, Masanobu, 4,695,856, Cl. 357-4.000.
Ohkura, Yosuke, to Toyo Soda Manufacturing Co., Ltd. Method for fluorometric analysis of catechol amines. 4,705,757, 11-10-87, Cl. 436-172.000.
Ohl, John P.: *See*—
Spence, Lewis C., 4,675,684, Cl. 342-394.000.
Ohlbach, Ralph C., to Conductive Containers, Inc. Conductive container. 4,684,020, 8-4-87, Cl. 206-328.000.
Ohlbach, Ralph C., to Conductive Containers, Inc. Conductive container. 4,706,438, 11-17-87, Cl. 53-410.000.
Ohlendorf, Dieter; Hoffmann, Heinz; Interthal, Werner; and Pintschovius, Ulrich, to Hoechst Aktiengesellschaft. Quaternary ammonium salts and their use as drag reducing agents. 4,705,860, 11-10-87, Cl. 546-347.000.
Ohlendorf, Heinrich-Wilhelm; Ruhland, Michael; and Wolf, Klaus-Ullrich, to Kali-Chemie Pharma GmbH. 3-amino-2,3-dihydro-1-benzoxepine compounds and pharmaceutical compositions containing them. 4,672,062, 6-9-87, Cl. 514-227.000.
Ohler, Steven W., to Brunswick Corporation. Magnetically actuated line feathering system for spin cast reels. 4,640,470, 2-3-87, Cl. 242-84.20A.
Ohlhaber, Ronald L.; and Ulijasz, Thaddeus E., to Cooper Industries, Inc. Hybrid coaxial-optical cable and method of use. 4,695,127, 9-22-87, Cl. 350-96.230.
Ohlig, Albert H. Vacuum apparatus blanket and method of making the same. 4,705,392, 11-10-87, Cl. 355-91.000.
Ohlig, Ernest; and Skoop, Conrad B., to Ohlig, Ernest. Photographic registration apparatus and method. 4,707,125, 11-17-87, Cl. 355-94.000.
Ohlig, Hilmar: *See*—
McKee, Graham E.; Ohlig, Hilmar; Reimann, Horst; and Sterzel, Hans-Josef, 4,694,042, Cl. 525-66.000.
Ohlinger, Manfred; Mueller, Norbert; Rudolf, Peter; and Wettstein, Eugen, to BASF Aktiengesellschaft. Preparation of ferromagnetic chromium dioxide. 4,670,177, 6-2-87, Cl. 252-62.550.

Ohloff, Gunther: *See*—
Schulte-Elte, Karl-Heinrich; Ohloff, Gunther; Muller, Bernard L.; and Giersch, Wolfgang K., 4,711,875, Cl. 512-1.000.

Ohlschlager, Hans: *See*—
Schranz, Karl-Wilhelm; Schenk, Gunther; and Ohlschlager, Hans, 4,689,286, Cl. 430-138.000.

Ohlson, Carl-Eric. Method of centering an X-ray film cassette or like object inserted in a holder, in respect to an X-axis in which the cassette can be so centered. 4,675,894, 6-23-87, Cl. 378-181.000.

Ohlson, Carl-Eric; and Behnke, Gunther, to AO Medical Products AB. Method for damping the natural oscillations of a pillar-stand carrying X-ray equipment, occuring when making positional adjustments thereto; and a pillar stand. 4,679,223, 7-7-87, Cl. 378-195.000.

Ohlson, Carl-Eric, to AO Medical Products AB. Chair for use when taking X-ray pictures. 4,699,425, 10-13-87, Cl. 297-349.000.

Ohlsson, Ingemar; and Larsson, Goran, to Tetra Pak Developpement S.A. Machine for making packs for flowing material. 4,646,507, 3-3-87, Cl. 53-170.000.

Ohlsson, Ingemar, to Tetra Pak Developpement S.A. Apparatus for forming, welding and conveying packs. 4,663,916, 5-12-87, Cl. 53-551.000.

Ohlsson, Lars I.: *See*—
Dahlberg, Bengt A. G.; Jeppsson, Jan-Bertil; Ohlsson, Lars I.; and Simonsson, Tord B., 4,650,458, Cl. 604-5.000.

Ohlsson, Weimar. Quick-coupling assembly. 4,647,079, 3-3-87, Cl. 285-276.000.

Ohmae, Kenichi; Tateisi, Kazuma; Shinohara, Yoshitsugu; and Ueno, Nobuyuki, to Omron Tateisi Electronics Co. System for making payments for transactions. 4,673,802, 6-16-87, Cl. 235-375.000.

Ohmae, Masanori: *See*—
Kurosu, Noriaki; Ohmae, Masanori; and Kashiwa, Michiaki, 4,683,540, Cl. 364-468.000.

Ohman, Gerth, to Ergonomen HB. Clamp for holding rope fast. 4,697,314, 10-6-87, Cl. 24-132.00R.

Ohman, Lena: *See*—
Johansson, Elof, and Ohman, Lena, 4,642,305, Cl. 514-182.000.

Ohmart, James G.: *See*—
George, Ronald W.; Ohmart, James G.; Irlesberger, Kurt H.; Michaud, Lawrence L.; and Engelhaupt, Darell E., 4,648,944, Cl. 204-1.00T.

Ohmatsu, Hideki: *See*—
Kubota, Satosi; Yoshida, Tetsuo; and Ohmatsu, Hideki, 4,643,965, Cl. 430-567.000.

Ohme, Roland: *See*—
Ballschuh, Detlef; Seibt, Horst; Rusche, Jochen; and Ohme, Roland, 4,687,602, Cl. 260-501.120.

Ohmer, Herve; and Delpuech, Alain G. M., to Schlumberger Technology Corporation. Device for locking a set of gimbal-mounted detectors. 4,701,890, 10-20-87, Cl. 367-25.000.

Ohmi, Kyozo: *See*—
Baba, Takeshi; Iwasa, Hiroki; Nagasaka, Chikao; and Ohmi, Kyozo, 4,645,299, Cl. 350-99.000.

Ohmi, Masatoshi, to Yamaha Hatsudoki Kabushiki Kaisha. Tappet arrangement for engine valve train. 4,637,357, 1-20-87, Cl. 123-90.480.

Ohmi, Masatoshi; Yoneda, Toshihiko; and Uchiyama, Kazuo, to Yamaha Hatsudoki Kabushiki Kaisha. Intake means of internal combustion engine. 4,649,876, 3-17-87, Cl. 123-302.000.

Ohmi, Masatoshi; Yoneda, Toshihiko; and Uchiyama, Kazuo, to Yamaha Hatsudoki Kabushiki Kaisha. Intake means of internal combustion engine. 4,702,203, 10-27-87, Cl. 123-52.0MV.

Ohmi, Shigeaki; Shingaki, Seiichi; Sakai, Hiroyuki; and Asahara, Yoshiyuki, to Hoya Corporation. Process for producing glass product having gradient of refractive index. 4,640,699, 2-3-87, Cl. 65-3.150.

Ohmi, Shinya: *See*—
Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,669,827, Cl. 350-338.000.
Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,671,615, Cl. 350-331.00R.
Itoh, Hiroshi; Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,669,825, Cl. 350-332.000.
Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi and Hara, Kunihiko, 4,669,826, Cl. 350-331.00R.
Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,676,601, Cl. 350-331.00R.
Itoh, Hiroshi; Suzuki, Yasutoshi; Fukada, Tsuyoshi; Ohmi, Shinya; and Hara, Kunihiko, 4,687,956, Cl. 307-310.000.
Muramatsu, Hiromochi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,671,617, Cl. 350-335.000.
Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; Itoh, Hiroshi, and Hara, Kunihiko, 4,655,549, Cl. 350-331.0LR.
Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,697,883, Cl. 350-331.00R.

Ohmi, Tadahiro; and Tanaka, Nobuyoshi, to Canon Kabushiki Kaisha. Photoelectric converter. 4,686,554, 8-11-87, Cl. 357-30.000.

Ohmi, Tadahiro: *See*—
Nakamura, Yoshio; Sugiyama, Susumo; Nishizawa, Jun-ichi; and Ohmi, Tadahiro, 4,692,789, Cl. 357-74.000.
Nishizawa, Junichi; and Ohmi, Tadahiro, 4,644,386, Cl. 357-23.300.
Nishizawa, Junichi; and Ohmi, Tadahiro, 4,660,062, Cl. 357-23.300.

Ohmi, Tetsuto: *See*—
Seo, Akira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Nishimura, Akira; Konaka, Shigeo; Ohmi, Tetsuto; Munechika, Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, 4,636,519, Cl. 514-397.000.

Ohmichi, Namio. Tray type container. 4,666,080, 5-19-87, Cl. 229-143.000.

Ohminato, Kiyoshi, to King Jim Co., Ltd. Binder assemblies. 4,693,627, 9-15-87, Cl. 402-27.000.

Ohmiya, Shigeru: *See*—
Nakato, Hakaru; Nozaki, Tsutomu; Kinoshita, Katsuo; Ban, Yasuhiro; Ohnuma, Hiroaki; Ohmiya, Shigeru; and Kimura, Tomoaki, 4,673,024, Cl. 164-431.000.

Ohmizu, Akimasa: *See*—
Uemura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sato, Akinori; Ohtani, Wataru; Sakanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu, 4,694,074, Cl. 530-417.000.

Ohmizu, Tsuyoshi: *See*—
Yamamoto, Shinichiro; Sudo, Shigeki; and Ohmizu, Tsuyoshi, 4,654,135, Cl. 204-269.000.

Ohmomo, Yoshiro: *See*—
Takaheshi, Keietsu; Ueda, Nobuo; Hazue, Masaaki; Yokoyama, Akira; and Ohmomo, Yoshiro, 4,645,660, Cl. 424-1.100.

Ohmori, Akimitsu: *See*—
Suzuki, Hiroshi; and Ohmori, Akimitsu, 4,669,697, Cl. 248-638.00.

Ohmori, Akira; Tomihashi, Nobuyuki; and Shimizu, Yoshiki, to Daikin Kogyo Co., Ltd. Fluorine-containing copolymer and composition containing the same for curing. 4,634,754, 1-6-87, Cl. 526-242.000.

Ohmori, Akira; Tomihashi, Nobuyuki; Inukai, Hiroshi; and Naka, Kazuhiro, to Daikin Industries Ltd. Fluoroosyalkyl vinyl ether. 4,638,041, 1-20-87, Cl. 526-247.000.

Ohmori, Akira; Yasuhara, Takashi; Izutani, Naoaki; and Ueda, Yasufumi, to Daikin Industries Ltd. Fluorine-containing polymer for gas separating membrane. 4,644,043, 2-17-87, Cl. 526-246.000.

Ohmori, Akira; Tomihashi, Nobuyuki; Inukai, Hiroshi; and Izutani, Naoaki, to Daikin Kogyo Co., Ltd. Material for gas separating membrane. 4,655,807, 4-7-87, Cl. 55-522.000.

Ohmori, Akira, to Daikin Kogyo Co., Ltd. Optical fiber. 4,660,925, 4-28-87, Cl. 350-96.340.

Ohmori, Akira; and Tomihashi, Nobuyuki, to Daikin Industries, Ltd. Material for contact lenses. 4,665,144, 5-12-87, Cl. 526-245.000.

Ohmori, Akira; and Inukai, Hiroshi, to Daikin Kogyo Co., Ltd. Fluorine-containing copolymer and composition containing the same. 4,667,000, 5-19-87, Cl. 526-247.000.

Ohmori, Akira; and Ishiwari, Kazuo, to Daikin Kogyo Co., Ltd. Transparent coating material. 4,690,869, 9-1-87, Cl. 428-421.000.

Ohmori, Akira: *See*—
Yamamoto, Fumio; Suzuki, Takayoshi; Ikari, Masahiro; Sato, Susumu; Ohmori, Akira; and Yasuhara, Takashi, 4,684,705, Cl. 526-246.000.

Ohmori, Atsushi: *See*—
Uriuhara, Makoto; and Ohmori, Atsushi, 4,695,062, Cl. 364-424.100.

Ohmori, Hatsutaro, to Kabushiki Kaisha Ohmori Seisakusho. Spinning type fishing reel with line untwisting capability. 4,634,074, 1-6-87, Cl. 242-84.21R.

Ohmori, Hirofumi, to Mitsubishi Pencil Co., Ltd. Injector. 4,642,102, 2-10-87, Cl. 604-210.000.

Ohmori, Keiji, to International Business Machines Corporation. Image translation system. 4,716,533, 12-29-87, Cl. 364-518.000.

Ohmori, Kouichi, to Canon Kabushiki Kaisha. Multiple light emission flash unit. 4,643,551, 2-17-87, Cl. 354-132.000.

Ohmori, Kouichi, to Canon Kabushiki Kaisha. Charge completion confirming device for flash light devices. 4,705,373, 11-10-87, Cl. 354-127.110.

Ohmori, Masakazu: *See*—
Natto, Tadashi; Okuda, Kenzo; Ohmori, Masakazu; Saityo, Toru; and Imaizumi, Ken, 4,700,309, Cl. 364-468.000.

Ohmori, Masami, to Duplo Seizo Kabushiki Kaisha. Paper sheet folding device. 4,647,029, 3-3-87, Cl. 270-45.000.

Ohmori, Motoji: *See*—
Shiohata, Kouki; Satoh, Kazuo; Ohmori, Motoji; Kikuchi, Kazuaki; and Kaneko, Ryoichi, 4,635,210, Cl. 364-508.000.

Ohmori, Sachio: *See*—
Okano, Hiroshi; Kanno, Hideo; and Ohmori, Sachio, 4,707,100, Cl. 354-273.000.

Ohmori, Shoji: *See*—
Entani, Etsuzo; Fujiyama, Seiichi; Ohmori, Shoji; and Masai, Hiroshi, 4,654,306, Cl. 435-253.000.
Okada, Takashi; Mogi, Takao; Ohmori, Shoji; Tanaka, Yutaka; and Kobayashi, Hiroyuki, 4,635,113, Cl. 358-124.000.

Ohmori, Susumu; Yagi, Akira; and Takase, Satoshi, to Toyo Boseki Kabushiki Kaisha. Electretized material for a dust filter. 4,652,282, 3-24-87, Cl. 55-155.000.

Ohmori, Taiji, to Honda Giken Kogyo Kabushiki Kaisha. System for controlling the damping rate of a vehicle suspension. 4,657,281, 4-14-87, Cl. 280-707.000.

Ohmori, Takashi: *See*—
Inui, Toshiharu; Moriguchi, Haruhiko; Hisatake, Masayuki; and Ohmori, Takashi, 4,685,069, Cl. 364-506.000.
Ishikawa, Noriyoshi; Takahashi, Haruhiko; Funato, Hitoshi; Leng, Svay; Saitoh, Hiroyuki; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,661,703, Cl. 250-317.100.
Moriguchi, Haruhiko; Inui, Toshiharu; Ohmori, Takashi; and Kikuchi, Yoshiki, 4,651,167, Cl. 346-76.0PH.
Sato, Isao; Ishibashi, Yoji; Tamura, Zensuke; Ohmori, Takashi; Minakawa, Yoshimitsu; Fujimura, Hidekazu; and Uchiyama, Yoshihiro, 4,671,069, Cl. 60-737.000.
Sugiki, Hiraku; Odaka, Kentaro; Satake, Tomoji; Ohmori, Takashi; and Yamada, Makoto, 4,656,539, Cl. 360-77.000.

Takahashi, Haruhiko; Inui, Toshiharu; Saitoh, Hiroyuki; Ishikawa, Noriyoshi; Funato, Hitoshi; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo. 4,709,149, Cl. 250-317.100.

mori, Toshiaki: *See*—
Fukumoto, Takaaki; and Ohmori, Toshiaki. 4,696,184, Cl. 73-32.00R.

mori, Toshihiko; Nakatsuka, Hirotaka; and Kanou, Hiroyuki, to Nippondenso Co., Ltd. Fuel injection device. 4,653,448, 3-31-87, Cl. 123-446.000.

mori, Toshihiko: *See*—
Hishinuma, Osamu; Masuda, Akira; Ohmori, Toshihiko; Miyaki, Masahiko; and Takemoto, Eiji. 4,671,239, Cl. 123-458.000.

Kato, Masaaki; Kano, Hiroyuki; and Ohmori, Toshihiko. 4,676,214, Cl. 123-446.000.

mori, Yasuo: *See*—
Ando, Hirokazu; Fukushima, Kazumasa; Ohmori, Yasuo; and Koyama, Tatsuya. 4,692,043, Cl. 400-124.000.

n, Franz, to ANT Nachrichtentechnik GmbH. Apparatus for ...ering electronic one-way switches from high power dissipation ...ents. 4,669,023, 5-26-87, Cl. 361-56.000.

n, Franz, to ANT Nachrichtentechnik GmbH. Circuit arrangement ...r detecting a current in power supply devices. 4,684,827, 8-4-87, Cl. ...413.000.

nsiedt, Harry O., to General Electric Company. Gas-cooled inside-out ...rushholder for dynamoelectric machine. 4,667,132, 5-5-87, Cl. ...246.000.

mura, Fusaji: *See*—
Kawabata, Yasuhiro; Ito, Shoji; Kawai, Yukio; Sasano, Mitsunori; and Ohmura, Fusaji. 4,665,948, Cl. 137-625.480.

mura, Haruo; and Ouba, Yuji, to Toyoda Koki Kabushiki Kaisha. ...nerically controlled grinding machine. 4,662,122, 5-5-87, Cl. ...186.710.

mura, Hiroshi; Tanaka, Tsutomu; and Nakada, Kimiaki, to Fuji Photo Film Co., Ltd. Telephoto lens camera. 4,655,571, 4-7-87, Cl. ...150.000.

mura, Hiroshi; and Nakayama, Masaharu, to Nippon Oil and Fats Co., Ltd. Process for preparing a non-aqueous liquid dispersion of ...ymer made with a polymeric peroxide. 4,659,769, 4-21-87, Cl. ...529.000.

mura, Hiroshi; Tsunekawa, Tokuichi; Kiyohara, Shyuichi; and Kawabata, Takashi, to Canon Kabushiki Kaisha. Photometric device ...r camera. 4,682,873, 7-28-87, Cl. 354-478.000.

mura, Hiroshi; Oshibe, Yoshihiro; Nakayama, Masaharu; and Yamaguchi, Takashi, to Nippon Oil and Fats Co., Ltd. Method for modifying the surface of polymer materials. 4,698,388, 10-6-87, Cl. ...58.000.

mura, Hiroshi: *See*—
Akashi, Akira; Ohmura, Hiroshi; Ishizaki, Akira; Ohtaka, Keiji; and Suda, Yasuo. 4,716,282, Cl. 250-201.000.

Fushiyashi, Kazuo; Tsunekawa, Tokuichi; and Ohmura, Hiroshi. 4,697,905, Cl. 354-406.000.

Ikeda, Toshiki; Beppu, Yoshitugu; Yamamoto, Takashi; Ishigaki, Hideyo; and Ohmura, Hiroshi. 4,698,367, Cl. 521-57.000.

Suda, Yasuo; Ohmura, Hiroshi; Ishizaki, Akira; Akashi, Akira; and Ohtaka, Keiji. 4,688,920, Cl. 354-406.000.

Yoshida, Shozo; and Ohmura, Hiroshi. 4,673,276, Cl. 354-430.000.

mura, Kazumi; Suyama, Yasuyuki; and Nagasawa, Hiroaki, to Tsubakimoto Chain Co. Workpiece transferring apparatus for a ...ot. 4,664,575, 5-12-87, Cl. 414-32.000.

mura, Kazutaka: *See*—
Yamane, Kunio; Ohmura, Kazutaka; Nakayama, Akira; and Takeuchi, Yasutoshi. 4,663,294, Cl. 435-317.000.

Yamane, Kunio; Ohmura, Kazutaka; Yamazaki, Hisato; and Shiroza, Teruaki. 4,690,898, Cl. 435-320.000.

mura, Keiji; Kawai, Sueo; Murakami, Yoshimasa; Takeichi, Mi...fumi; and Okazaki, Masato, to Hitachi, Ltd. Underframe construc...e for railway vehicle. 4,645,258, 2-24-87, Cl. 296-204.000.

mura, Ryuichi, to Fuji Kogyo Co., Ltd. Casting handles. 4,646,462, ...47, Cl. 43-23.000.

mura, Ryuichi, to Fuji Kogyo Co., Ltd. Reel seats for fishing rods. ...653,217, 3-31-87, Cl. 43-20.000.

mura, Ryuichi, to Fuji Kogyo Co., Ltd. Cylindrical reel seat for a ...shing rod. 4,702,032, 10-27-87, Cl. 43-22.000.

mura, Tadayoshi: *See*—
Kawata, Hirotsu; Aruga, Masayoshi; Ohmura, Tadayoshi; Sonobe, Takashi; Yoneya, Satoru; and Sone, Chiharu. 4,673,564, Cl. 424-494.000.

mura, Takao: *See*—
Tomura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sumi, Akinori; Ohtani, Wataru; Sakanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu. 4,694,074, Cl. 530-417.000.

mura, Tetsuya: *See*—
Okumura, Munehiro; Kuwahara, Kazuo; Arita, Masujiro; Mori, Shingo; Ohmura, Tetsuya; Yamamoto, Osamu; and Ishii, Shinichi. 4,668,401, Cl. 210-650.000.

mura, Toshiro: *See*—
Tanaka, Yutaka; Nishizawa, Taiji; Ninomiya, Yuichi; Ohmura, Toshiro; Kurita, Taiichiro; and Ohtsuka, Yoshimichi. 4,663,665, Cl. 358-140.000.

mura, Yoshio: *See*—
Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fuji, Takayoshi; Ohhara, Minoru; and Ando, Takao. 4,637,998, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fuji, Takayoshi; Ohhara, Minoru; and Ando, Takao. 4,649,133, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fuji, Takayoshi; Ohhara, Minoru; and Ando, Takao. 4,657,895, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fuji, Takayoshi; Ohhara, Minoru; and Ando, Takao. 4,663,312, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fuji, Takayoshi; Ohhara, Minoru; and Ando, Takao. 4,673,669, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fuji, Takayoshi; Ohhara, Minoru; and Ando, Takao. 4,708,950, Cl. 514-42.000.

Ohmura, Yutaka; and Shimura, Ryouji, to Nissan Motor Company, Limited; and Ohi Seisakusho Company, Limited. Vehicular air flow control device with variable angle air flow control fin. 4,674,788, 6-23-87, Cl. 296-1.00S.

Ohna, Bernt E. Internal combustion engine. 4,700,667, 10-20-87, Cl. 123-61.00R.

Ohnaka, Michiro: *See*—
Horino, Hiroshi; Ohnaka, Michiro; Hayashi, Atsushi; and Ikeno, Yoshiko. 4,684,737, Cl. 549-240.000.

Ohnari, Eiji, to Eikoh Giken Co., Ltd. No-break power supply system. 4,686,379, 8-11-87, Cl. 307-66.000.

Ohaari, Mikihiko; Funabashi, Motohisa; Shoya, Makoto; Sekozawa, Teruji; and Shida, Masami, to Hitachi, Ltd. Method of controlling electronic fuel injection to internal combustion engine. 4,697,566, 10-6-87, Cl. 123-479.000.

Ohnhaus, Buford U. Double-acting pitot tube. 4,677,858, 7-7-87, Cl. 73-861.650.

Ohnishi, Eiichi: *See*—
Iwano, Hiroshi; Yamamoto, Tadahiro; Ota, Tadaki; Ogane, Hiroshi; Ohnishi, Eiichi; and Yonezawa, Atsushi. 4,698,110, Cl. 123-472.000.

Ohnishi, Hiroshi: *See*—
Ihama, Mikio; Tani, Tadaaki; and Ohnishi, Hiroshi. 4,683,193, Cl. 430-570.000.

Ohnishi, Isao: *See*—
Ohgushi, Kikuo; Yoshikawa, You; Ohnishi, Isao; and Matsuura, Haruo. 4,669,275, Cl. 62-342.000.

Ohnishi, Kanji: *See*—
Yasuda, Hiroshi; Ohnishi, Kanji; Yokoya, Satoshi; and Strom, Jon. 4,700,377, Cl. 379-88.000.

Ohnishi, Kazuyuki: *See*—
Okuda, Masakiyo; Ohnishi, Kazuyuki; and Mitsuyama, Akira. 4,639,125, Cl. 355-23.000.
Okuda, Masakiyo; and Ohnishi, Kazuyuki. 4,655,582, Cl. 355-14.00R.
Okuda, Masakiyo; and Ohnishi, Kazuyuki. 4,708,461, Cl. 355-14.00R.

Ohnishi, Keiichi: *See*—
Matsuo, Masashi; Yamagishi, Nobuyuki; Noshiro, Makoto; Itsugiri, Yukio; and Ohnishi, Keiichi. 4,687,707, Cl. 428-336.000.

Ohnishi, Kenichi: *See*—
Takemura, Shinji; Hida, Tsuneo; Matsuzaki, Yutaka; and Ohnishi, Kenichi. 4,634,945, Cl. 318-469.000.

Ohnishi, Makoto: *See*—
Nakamura, Shigeki; Ohnishi, Makoto; and Takahashi, Yasufumi. 4,680,556, Cl. 332-16.00R.

Ohnishi, Masahiro: *See*—
Shiozawa, Eiuo; Harada, Shigeo; Ohtsuka, Shuichi; and Ohnishi, Masahiro. 4,678,312, Cl. 355-3.00R.

Ohnishi, Masanori: *See*—
Ueno, Shigeto; Ohnishi, Masanori; Nakamura, Yuji; and Tanaka, Shinichi. 4,639,814, Cl. 360-130.100.

Ohnishi, Masaru; and Saito, Masayuki, to Mitsubishi Denki Kabushiki Kaisha. Thermal transfer printing method and thermal head used in method thereof. 4,663,636, 5-5-87, Cl. 346-76.0PH.

Ohnishi, Masayuki: *See*—
Fukayama, Miyoji; and Ohnishi, Masayuki. 4,704,419, Cl. 524-188.000.

Ohnishi, Michikazu; and Tani, Nobutaka, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Method and apparatus for treating blood constituents. 4,696,670, 9-29-87, Cl. 604-49.000.

Ohnishi, Michitoshi: *See*—
Minami, Koji; Goto, Kazuyuki; Haku, Hisao; Fukuyo, Takeo; Ohnishi, Michitoshi; and Kuwano, Yukinori. 4,670,367, Cl. 430-57.000.

Ohnishi, S. Tsuyoshi. Method of preventing the growth of malaria parasites in erythrocytes. 4,681,899, 7-21-87, Cl. 514-607.000.

Ohnishi, Shohzo: *See*—
Nakatani, Keiichi; Ohnishi, Shohzo; and Kurosaki, Tadamasa. 4,683,249, Cl. 521-129.000.

Ohnishi, Tadahiro: *See*—
Maruyama, Hiromi; and Ohnishi, Tadahiro. 4,655,999, Cl. 376-333.000.

Ohnishi, Tadakazu: *See*—
Higashi, Kenji; Ohnishi, Tadakazu; and Tsukuda, Ichizo. 4,713,216, Cl. 420-532.000.

Ohnishi, Takashi; Suzuki, Shigeaki; Fujita, Yoshio; and Nishida, Takashi, to Kuraray Company, Ltd. Trimethylcyclohexenyl compounds and aroma compositions containing the same. 4,659,510, 4-21-87, Cl. 252-522.00R.

Ohnishi, Toshikazu: *See*—
Fukumoto, Hiroshi; Ohnishi, Toshikazu; and Arahara, Kohzoh, 4,702,988, Cl. 430-137.000.

Ohnishi, Tsutomu: *See*—
Kakimoto, Norihiro; Katayama, Takashi; Hazato, Tadahiko; and Ohnishi, Tsutomu, 4,681,960, Cl. 556-83.000.

Ohnishi, Youichi: *See*—
Miyamoto, Toshinobu; Sakurai, Hideya; Hayashi, Hiroo; and Ohnishi, Youichi, 4,672,346, Cl. 335-296.000.
Miyamoto, Toshinobu; Hayashi, Hiroo; Sakurai, Hideya; Takabayashi, Hirofumi; and Ohnishi, Youichi, 4,679,022, Cl. 335-296.000.
Nakayama, Yoshiharu; and Ohnishi, Youichi, 4,714,061, Cl. 123-195.00R.

Ohno, Akihiko: *See*—
Ishino, Iwao; Ohno, Akihiko; and Isaka, Tsutomu, 4,689,369, Cl. 525-288.000.

Ohno, Akihiro: *See*—
Eto, Kunihiko; Ohno, Akihiro; and Mori, Yutaka, 4,662,466, Cl. 180-142.000.

Ohno, Akio; and Torigai, Akiyoshi, to Canon Kabushiki Kaisha. Image forming apparatus. 4,636,062, 1-13-87, Cl. 355-43.000.

Ohno, Akio; Tanaka, Kiyoharu; Takeda, Kenji; Yoshinaga, Kenji; Oguri, Shinichi; and Takada, Yusaku, to Canon Kabushiki Kaisha. Developing apparatus. 4,646,679, 3-3-87, Cl. 118-691.000.

Ohno, Akio, to Canon Kabushiki Kaisha. Image forming apparatus. 4,676,627, 6-30-87, Cl. 355-14.0CH.

Ohno, Akio, to Canon Kabushiki Kaisha. Original reading apparatus. 4,688,930, 8-25-87, Cl. 355-25.000.

Ohno, Akio: *See*—
Hayashi, Kimiyoshi; Ohno, Akio; Hirooka, Kazuhiko; and Murayama, Yasushi, 4,697,915, Cl. 355-14.00D.

Ohno, Atsumi, to O.C.C. Company Limited. Method of producing a metallic member having a unidirectionally solidified structure. 4,665,970, 5-19-87, Cl. 164-471.000.

Ohno, Eiji: *See*—
Yamada, Noboru; Ohno, Eiji; and Kimura, Kunio, 4,656,079, Cl. 428-209.000.

Ohno, Harunobu: *See*—
Sugiyama, Susumu; Nakamura, Yoshio; Ohno, Harunobu; and Kamiya, Tokimasa, 4,672,417, Cl. 357-67.000.

Ohno, Hideo: *See*—
Konishi, Satoshi; Ohno, Hideo; Naruse, Yuji; and Yoshida, Hiroshi, 4,637,866, Cl. 204-129.000.

Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, to Citizen Watch Co., Ltd. Liquid crystal television receiver. 4,646,158, 2-24-87, Cl. 358-236.000.

Ohno, Hideshi: *See*—
Ito, Katsu; Shinabe, Munehiro; Miyajima, Akira; Hashimoto, Nobuyuki; Ohno, Hideshi; Tsuzuki, Akira; Morokawa, Shigeru; and Natori, Minoru, 4,663,670, Cl. 358-245.000.
Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.

Ohno, Hirofumi: *See*—
Nagasaka, Chikao; Kato, Hiroyuki; Ohno, Hirofumi; and Irifune, Shinichi, 4,655,546, Cl. 350-99.000.

Ohno, Hiromitsu; Noritake, Yutaka; Owari, Kimimasa; and Fukuda, Masuo, to Honda Giken Kogyo Kabushiki Kaisha. Exhaust manifold for internal combustion engines. 4,656,830, 4-14-87, Cl. 60-276.000.

Ohno, Hirotoshi, to Victor Company of Japan. Control circuit for DC brushless motor producing constant output torque. 4,713,590, 12-15-87, Cl. 318-254.000.

Ohno, Jiro; and Yashiro, Hirokatsu, to Nippon Steel Corporation. Method of and apparatus for imaging surface of object at high temperature. 4,641,036, 2-3-87, Cl. 250-574.000.

Ohno, Jiro; and Yashiro, Hirokatsu, to Nippon Steel Corporation. Method and apparatus for supervising charges in blast furnace using electromagnetic waves. 4,641,083, 2-3-87, Cl. 324-58.50B.

Ohno, John M., to General Electric Company. Cutting insert for interrupted heavy machining. 4,698,070, 10-6-87, Cl. 51-307.000.

Ohno, Junichi, to Kabushiki Kaisha Meidensha. Heating and melting apparatus for melting a substance to be melted. 4,676,224, 6-30-87, Cl. 126-343.50R.

Ohno, Junya: *See*—
Sasaki, Michiaki; and Ohno, Junya, 4,714,171, Cl. 220-85.0VR.

Ohno, Kenzo: *See*—
Ishida, Takao; Yoshida, Yukio; and Ohno, Kenzo, 4,694,607, Cl. 49-25.000.

Ohno, Kiyoshi: *See*—
Ozaki, Haruhiko; Yamada, Tadaioshi; Machida, Kunio; Ohno, Kiyoshi; Shimazaki, Hirato; Inoue, Hidekimi; and Uji, Ryohei, 4,713,686, Cl. 358-107.000.

Ohno, Koichi, to Nippon Kogaku K. K. Apparatus for regulating the optical characteristics of a projection optical system. 4,676,614, 6-30-87, Cl. 353-101.000.

Ohno, Koji: *See*—
Ohi, Nobukazu; Ohno, Koji; and Tosaki, Satoshi, 4,647,311, Cl. 106-35.000.

Ohno, Kouzin, to Takara Co., Ltd. Reconfigurable toy assembly. 4,674,990, 6-23-87, Cl. 446-376.000.

Ohno, Kouzin, to Takara Co., Ltd. Reconfigurable toy assembly. 4,680,018, 7-14-87, Cl. 446-376.000.

Ohno, Makoto: *See*—
Miyagi, Morio; Ohno, Makoto; and Kanaizumi, Masaru, 4,644,71[illegible] Cl. 264-41.000.

Ohno, Masashi: *See*—
Toyama, Takashi; Ohno, Masashi; Ishii, Kiminori; Yamamoto, Shosaku; and Kakinuma, Kazuo, 4,707,381, Cl. 427-407.100.

Ohno, Michio: *See*—
Hasegawa, Katsumi; Ohno, Michio; Nagayasu, Tadahito; and Umeda, Kazuo, 4,702,871, Cl. 264-101.000.

Ohno, Mitsuru: *See*—
Nagaoka, Kazuo; Isobe, Tomoichi; Kanasugi, Toshihiko; Suzuki, Nobuyuki; Wakabayashi, Sadao; Uchida, Kenji; Tsukamoto, Hideharu; Ohno, Mitsuru; and Shimano, Tadahiko, 4,649,648, Cl. 33-125.00R.

Ohno, Nobuhiko; Ogiue, Katsumi; Mizue, Katsuya; and Okuda, Noriyoshi, to Hitachi, Ltd.; and Hitachi Microcomputer Engineering, Ltd. Semiconductor memory device providing a selection circuit changeover arrangement. 4,656,606, 4-7-87, Cl. 365-104.000.

Ohno, Nobuhiko: *See*—
Okada, Daisuke; Uchida, Akihisa; Takakura, Toshihiko; Nakashima, Shinji; Ohno, Nobuhiko; and Ogiue, Katsumi, 4,700,466, Cl. 437-67.000.

Ohno, Sachio; Ebihara, Yuko; Mizukoshi, Kiyoshi; Ichihara, Ken; Ban, Takao; and Nagasaka, Mitsuaki, to Maruko Seiyaku Co., Ltd. Ergoline derivatives and acid addition salts thereof. 4,713,45[illegible] 12-15-87, Cl. 546-67.000.

Ohno, Satoru; and Shimada, Yasuhisa, to NEC Corporation. Precipitation loss compensation and disablement for avoidance of satellite transponder overloading. 4,697,187, 9-29-87, Cl. 342-358.000.

Ohno, Satoru: *See*—
Uda, Masahiro; Ohno, Satoru; and Okuyama, Hideo, 4,642,207, Cl. 264-10.000.
Uda, Masahiro; and Ohno, Satoru, 4,689,075, Cl. 75-0.5OB.

Ohno, Satoshi; Ichida, Koji; Tomita, Hideo; and Matsuzaki, Atsushi, to Sony Corporation. Multi-beam projector with dual-beam cathode ray tubes. 4,668,977, 5-26-87, Cl. 358-60.000.

Ohno, Satoshi: *See*—
Hirano, Atsuo; Hiramitsu, Tetsushi; and Ohno, Satoshi, 4,702,79[illegible] Cl. 439-15.000.

Ohno, Seishichi, to Nissho Seiko Kabushiki Kaisha. Gear cutting process. 4,714,387, 12-22-87, Cl. 409-51.000.

Ohno, Shigeru: *See*—
Deguchi, Naoyasu; Kojima, Tetsuro; Ohno, Shigeru; Nakamura, Koki; and Miyazaki, Hideo, 4,696,894, Cl. 430-551.000.
Ikeda, Hideo; Ohno, Shigeru; Nakamura, Koki; and Miyasaka, Nobuaki, 4,657,847, Cl. 430-523.000.
Ishihara, Shunichi; Ohno, Shigeru; Kanai, Masahiro; Oda, Shunji; and Shimizu, Isamu, 4,716,048, Cl. 427-39.000.
Saitoh, Keishi; Ohnuki, Yukihiko; and Ohno, Shigeru, 4,642,27[illegible] Cl. 430-57.000.
Saitoh, Keishi; Ohnuki, Yukihiko; and Ohno, Shigeru, 4,666,80[illegible] Cl. 430-58.000.

Ohno, Shoji; and Sugada, Sigeru, to Toyama Industry Co., Ltd. Adhesive tape and process for preparation thereof. 4,636,427, 1-13-87, Cl. 428-246.000.

Ohno, Shotaro: *See*—
Koyama, Kenji; and Ohno, Shotaro, 4,690,754, Cl. 210-94.000.

Ohno, Tadayoshi, to Kabushiki Kaisha Toshiba. Thermal-transfer ink ribbon. 4,707,707, 11-17-87, Cl. 346-76.0PH.

Ohno, Teruyoshi: *See*—
Ogino, Akihiko; and Ohno, Teruyoshi, 4,663,909, Cl. 52-302.000.

Ohno, Tetsuji: *See*—
Takai, Haruki; Nomoto, Yuji; Hirata, Tadashi; Ohno, Tetsuji; and Kubo, Kazuhiro, 4,668,683, Cl. 514-259.000.

Ohno, Tomoyuki: *See*—
Ishihara, Heigo; and Ohno, Tomoyuki, 4,692,378, Cl. 428-340.00[illegible]

Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; Kurosawa, Yuko; and Hakamata, Yoshimi, to Hitachi, Ltd. Ion source. 4,713,585, 12-15-87, Cl. 315-111.810.

Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; and Ohshita, Youichi, to Hitachi, Ltd. High frequency plasma generation apparatus. 4,716,491, 12-29-87, Cl. 361-230.000.

Ohno, Yoshihiro, to Seiko Epson Kabushiki Kaisha. Electroless plated terminals of display panel. 4,666,078, 5-19-87, Cl. 228-124.000.

Ohnsorge, Horst, to Standard Elektrik Lorenz Aktiengesellschaft. Broadband integrated subscriber loop system. 4,686,667, 8-11-87, Cl. 370-4.000.

Ohnuki, Hidebumi; Asano, Toshiaki; Atarashi, Takashi; and Yasui, Sunao, to NEC Corporation. Method of making multi-layer printed wiring boards. 4,668,332, 5-26-87, Cl. 156-630.000.

Ohnuki, Hideki: *See*—
Kaiya, Mitsuhiro; Denda, Masaki; Shimada, Masashi; Ohnuki, Hideki; and Ogura, Mineo, 4,660,052, Cl. 346-76.0PH.

Ohnuki, Ichiro, to Canon Kabushiki Kaisha. Electromagnetic device. 4,658,232, 4-14-87, Cl. 335-270.000.

Ohnuki, Ichiro, to Canon Kabushiki Kaisha. Movable mirror shifting mechanism for camera. 4,668,066, 5-26-87, Cl. 354-157.000.

Ohnuki, Ichiro; Aihara, Yoshihiko; Tosaka, Yoichi; and Eguchi, Masaharu, to Canon Kabushiki Kaisha. Film information reading device. 4,693,574, 9-15-87, Cl. 354-21.000.

Ohnuki, Ichiro: *See*—
Eguchi, Masaharu; Tosaka, Yoichi; Ohnuki, Ichiro; Aihara, Yoshihiko; and Ishizaki, Akira, 4,714,332, Cl. 354-21.000.

...ki, Kazushi: *See*—
...Yoshizawa, Kenji; Komura, Hirotsugu; Kodama, Hitoshi; Ohnuki, Kazushi; Shoda, Isao; Magome, Kazuo; and Ito, Hiroshi, 4,673,846, Cl. 315-248.000.

...ki, Nobutaka; Ojima, Masahiro; Arimoto, Akira; and Chinone, ...oki, to Hitachi, Ltd. Method of and apparatus for driving semiconductor laser. 4,712,218, 12-8-87, Cl. 372-38.000.

...ki, Yukihiko: *See*—
...Satoh, Keishi; Ohnuki, Yukihiko; and Ohno, Shigeru, 4,642,277, Cl. 430-57.000.
...Satoh, Keishi; Ohnuki, Yukihiko; and Ohno, Shigeru, 4,666,807, Cl. 430-58.000.

...ma, Hiraku: *See*—
...Hara, Akira; Ohnuma, Hiraku; and Takagi, Toshisaburo, 4,671,869, Cl. 210-119.000.

...ma, Hiroaki: *See*—
...Nakato, Hakaru; Nozaki, Tsutomu; Kinoshita, Katsuo; Habu, Yasuhiro; Ohnuma, Hiroaki; Ohmiya, Shigeru; and Kimura, Tomoaki, 4,673,024, Cl. 164-431.000.

...ma, Masao: *See*—
...Nishimura, Takahiro; and Ohnuma, Masao, 4,693,401, Cl. 222-607.000.

...ma, Shigehiro: *See*—
...Nakanouchi, Yukio; Ohnuma, Shigehiro; and Masumoto, Tsuyoshi, 4,688,130, Cl. 360-135.000.

...ma, Teruyuki: *See*—
...Ide, Yukio; Ohnuma, Teruyuki; and Kageyama, Yoshiyuki, 4,707,570, Cl. 178-18.000.

...o, Shigeru: *See*—
...Sasayama, Takao; Oho, Shigeru; Kanke, Atsushi; Shibata, Takanori; and Endo, Akira, 4,708,480, Cl. 356-350.000.

...ohara, Osamu: *See*—
...Nakasaka, Yoshiharu; Uo, Junko; Matsumoto, Kouichi; Ohodaira, Osamu; and Tanaka, Kentaro, 4,713,241, Cl. 424-93.000.

...ka, Masahiko: *See*—
...Miyadera, Kazuhiko; and Ohoka, Masahiko, 4,664,023, Cl. 98-41.100.

...ka, Tatuo: *See*—
...Asanuma, Tadashi; Ohoka, Tatuo; and Funakoshi, Yoshiyuki, 4,659,755, Cl. 523-303.000.

...ori, Koichi: *See*—
...Watanabe, Hideo; Ohori, Koichi; and Takeuchi, Yo, 4,645,543, Cl. 148-2.000.

...oshi, Sachio: *See*—
...Oho, Yusuke; Ohotoshi, Sachio; and Yamauchi, Masaru, 4,698,240, Cl. 427-58.000.

...uchi, Mituo, to Sharp Kabushiki Kaisha. Simultaneous display of ...t and gross weight of food in a heating appliance. 4,650,970, ...87, Cl. 219-506.000.

...m, Tom H., to Procter & Gamble Company, The. Liquid measuring ...d pouring device. 4,666,065, 5-19-87, Cl. 222-109.000.

...endorf, Dieter: *See*—
...Petri, Otto; Baeumer, Werner; and Ohrendorf, Dieter, 4,698,990, Cl. 72-21.000.

...n, Gary L.; and Byers, Timothy W., to Creative Sales & Mfg. Co., ...c. Adjustable support device for vehicle side view mirror. ...711,538, 12-8-87, Cl. 350-604.000.

...saka, Masayuki: *See*—
...Miyao, Osami; Shiraki, Manabu; and Ohsaka, Masayuki, 4,707,645, Cl. 318-254.000.

...saka, Yohnosuke: Anamoto, Yoshio; and Negishi, Yoshio, to Daikin Industries Ltd. Novel fluorine-containing polyaminoamide and preparation thereof from fluorooxetane and polyamine. 4,683,289, 7-28-87, Cl. 528-402.000.

...sawa, Yohnosuke; and Takaki, Shoji, to Daikin Industries, Ltd. Substituted trifluorooxetanes. 4,709,060, 11-24-87, Cl. 549-511.000.

...saki, Ryouhei, to Oki Electric Industry Co., Ltd. Ink ribbon cartridge. 4,645,364, 2-24-87, Cl. 400-248.000.

...saki, Ryouhei: *See*—
...Katsuzumi, Yuzo; and Ohsaki, Ryouhei, 4,652,153, Cl. 400-56.000.
...Yoshimura, Masato; and Ohsaki, Ryouhei, 4,682,904, Cl. 400-616.000.

...sasa, Hiroshi: *See*—
...Fujimura, Kiyoharu; and Ohsasa, Hiroshi, 4,666,126, Cl. 251-282.000.

...shima, Akira, to Matsushita Electronics Corporation. Dynamic memory apparatus having a sense amplifier and a reference voltage control circuit therefor. 4,669,065, 5-26-87, Cl. 365-210.000.

...sawa, Katsuyuki; Kawazoe, Hiromitsu; and Nagano, Susumu, to ...tsushiki Kaisha Toyota Chuo Kenkyusho. Injection nozzle. ...676,216, 6-30-87, Cl. 123-533.000.

...sawa, Kenji: *See*—
...Takahashi, Satoshi; Tsutsumi Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.

...sawa, Masaru: *See*—
...Yamagishi, Takashi; and Ohsawa, Masaru, 4,635,757, Cl. 187-9.00E.

...sawa, Michitaka: *See*—
...Kitou, Kouji; Ohki, Masashi; and Ohsawa, Michitaka, 4,649,465, Cl. 363-21.000.

...shima, Mitsuo, to Sony Corporation. Regulated DC power supply. ...656,709, 1-13-87, Cl. 323-267.000.

...sawa, Naoki: *See*—
...Otobe, Yutaka; Suzuki, Yoshio; Kimura, Shigehiro; and Ohsawa, Naoki, 4,696,273, Cl. 123-417.000.

Ohsawa, Seiichi: *See*—
Kaneko, Masahiko; Kunita, Masao; and Ohsawa, Seiichi, 4,650,348, Cl. 400-22.000.

Ohsawa, Takashi: *See*—
Furuyama, Tohru; and Ohsawa, Takashi, 4,686,456, Cl. 324-73.00R.

Ohsawa, Tomoki, to NEC Corporation. Synchronization circuit capable of establishing synchronism even when a sampling rate is invariable. 4,692,931, 9-8-87, Cl. 375-106.000.

Ohsawa, Toshifumi, to Canon Kabushiki Kaisha. Information read-in device for camera. 4,687,307, 8-18-87, Cl. 354-21.000.

Ohsawa, Yoshitaka; Shibata, Yutaka; Niwa, Shin-ichiro; Nishimura, Akira; and Uemiya, Takafumi, to Sumitomo Electric Industries, Ltd. Method for producing elastomeric optical fiber. 4,708,833, 11-24-87, Cl. 264-1.500.

Ohshima, Hiroshi; and Kakimoto, Osamu, to Kanegafuchi Chemical Industry Co., Ltd. Hydrogenation of acetylene contained in hydrogen chlorine gas, and application thereof. 4,668,833, 5-26-87, Cl. 570-241.000.

Ohshima, Iwao: *See*—
Ori, Koichi; Nishida, Masashi; Yagi, Junsuke; and Ohshima, Iwao, 4,683,128, Cl. 423-338.000.

Ohshima, Keiichi, to Seiko Epson Corporation. Color printer including a multiple color ink ribbon cartridge and tensioning device. 4,712,931, 12-15-87, Cl. 400-196.100.

Ohshima, Ken; Okada, Hiroo; and Sakamoto, Masaharu, to Olympus Optical Co., Ltd. Head drive control apparatus. 4,644,514, 2-17-87, Cl. 369-32.000.

Ohshima, Ken; and Shimizu, Tadashi, to Olympus Optical Company Limited. Servo apparatus for compensating for warp and deflection deviations on optical discs. 4,710,908, 12-1-87, Cl. 369-32.000.

Ohshima, Ken: *See*—
Okumura, Masuo; and Ohshima, Ken, 4,674,071, Cl. 369-48.000.
Takeuchi, Toyoaki; Ohshima, Ken; Kenjyo, Hideyuki; Ikeda, Yoshiaki; and Sakamoto, Masaharu, 4,683,560, Cl. 369-45.000.

Ohshima, Kiyoshi; Suzuki, Shigeru; Mashiko, Harumitsu; and Ohdake, Eisyu, to Ricoh Company, Ltd. Method of positioning original image to be copied and apparatus for performing the same. 4,707,126, 11-17-87, Cl. 355-14.0SH.

Ohshima, Kohichi; Kageyama, Yoshiyuki; Ide, Yukio; Fujimura, Itaru; and Kumita, Masako, to Ricoh Company, Ltd. Electrophotographic photoconductor having a photosensitive layer of amorphous silicon carbonitride. 4,687,723, 8-18-87, Cl. 430-65.000.

Ohshima, Masaaki; and Matsuki, Michio, to Matsushita Electric Industrial Co., Ltd. Semiconductor laser. 4,644,552, 2-17-87, Cl. 372-45.000.

Ohshima, Masaaki: *See*—
Hirayama, Noriyuki; Ohshima, Masaaki; Takenaka, Naoki; and Kino, Yoshihiro, 4,661,960, Cl. 372-45.000.

Ohshima, Michio: *See*—
Okamoto, Toshiro; and Ohshima, Michio, 4,655,904, Cl. 208-129.000.

Ohshima, Naoto: *See*—
Takada, Shunji; Ohshima, Naoto; and Ishimaru, Shingo, 4,668,614, Cl. 430-567.000.

Ohshima, Nobuaki: *See*—
Ebata, Sakae; and Ohshima, Nobuaki, 4,682,754, Cl. 248-639.000.

Ohshima, Shigeo: *See*—
Magome, Koichi; Toda, Haruki; Koinuma, Hiroyuki; Sahara, Hiroshi; Suzuki, Kiminobu; Ohshima, Shigeo; and Komatsu, Kenji, 4,678,934, Cl. 307-279.000.

Ohshima, Shoich: *See*—
Horiuchi, Ichiro; Ohshima, Shoich; and Takeshita, Keiji, 4,660,433, Cl. 74-476.000.

Ohshima, Shoichi: *See*—
Takeshita, Keiji; Hamano, Hideo; Ohshima, Shoichi; Suzuki, Takaaki; and Ida, Shuichiro, 4,674,600, Cl. 184-6.120.

Ohshima, Takefumi: *See*—
Noguchi, Takashi; Hayashi, Hisao; and Ohshima, Takefumi, 4,693,759, Cl. 437-24.000.

Ohshima, Tetsuya; Senshu, Hisashi; Matsuyama, Takeshi; Kawagishi, Yoji; Andoh, Takuo; and Kiryu, Takashi, to Nippon Gosei Kagako Kogyo KK; and Orient Chemical Industries, Ltd. Dye composition and use thereof. 4,656,113, 4-7-87, Cl. 430-137.000.

Ohshima, Yoshikuni: *See*—
Horibe, Youshun; Ohshima, Yoshikuni; and Masuda, Toyohiko, 4,637,350, Cl. 122-441.000.

Ohshiro, Yasuo: *See*—
Bodor, Nicholas S.; and Ohshiro, Yasuo, 4,661,502, Cl. 514-346.000.

Ohshita, Toshiyuki: *See*—
Ohkochi, Katsutoshi; Shinozaki, Mamoru; Ohshita, Toshiyuki; Kitano, Masayasu; and Kamata, Seizo, 4,706,753, Cl. 166-286.000.

Ohshita, Youichi: *See*—
Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; and Ohshita, Youichi, 4,716,491, Cl. 361-230.000.
Setoyama, Eiji; Arimatsu, Keiji; and Ohshita, Youichi, 4,673,482, Cl. 204-298.000.

Ohsuga, Kamemaru, to Yamaho Kogyo Co., Ltd. Vegetable activator and method for manufacturing same. 4,634,463, 1-6-87, Cl. 71-34.000.

Ohsugi, Hiroshi: *See*—
Shikamori, Tamotsu; Toshimitsu, Hiroyuki; Ohsugi, Hiroshi; Hiyama, Isao; and Fukuzawa, Soichi, 4,691,538, Cl. 68-12.00R.

Ohsugi, Katsuhisa; Ichida, Junji; and Takahashi, Eisaku, to Kureha Kagaku Kogyo Kabushiki Kaisha. Novel antibiotic compound. 4,668,627, 5-26-87, Cl. 435-119.000.

Ohsugi, Yoshiyuki: *See*—
Mori, Takashi; Ohi, Nobuhiro; Ohsugi, Yoshiyuki; and Yamashita, Yasuhiro, 4,691,018, Cl. 546-309.000.

Ohsumi, Hisayoshi, to Nippon Gakki Seizo Kabushiki Kaisha. Resin-treated woody material. 4,637,954, 1-20-87, Cl. 428-342.000.

Ohta, Akio: *See*—
Sakamoto, Katsuji; Ohta, Akio; Toda, Yuichi; Suzuki, Shuzo; and Ide, Takashi, 4,676,635, Cl. 356-73.100.

Ohta, Eiichi, to Brother Industries, Ltd. Image sensing head for document scanning. 4,647,768, 3-3-87, Cl. 250-227.000.

Ohta, Eiichi: *See*—
Harano, Tetsuo; and Ohta, Eiichi, 4,652,743, Cl. 250-227.000.
Igi, Hisashi; Ohta, Eiichi; Bandai, Yasuhito; and Takagi, Kazuhiko, 4,687,352, Cl. 400-73.000.
Igi, Hisashi; Yamada, Tomohiro; Higuchi, Tomohisa; Ohta, Eiichi; and Yazawa, Hiroaki, 4,702,630, Cl. 400-82.000.
Imaizumi, Mamoru; Ishikawa, Yujiro; Ohta, Eiichi; Sato, Shizuo; and Matsushita, Kazuyuki, 4,647,765, Cl. 250-227.000.
Sakakibara, Kenji; Harano, Tetsuo; Bandai, Yasuhito; and Ohta, Eiichi, 4,684,999, Cl. 358-294.000.

Ohta, Hajime: *See*—
Enokido, Shunji; Kodani, Hideyuki; and Ohta, Hajime, 4,670,751, Cl. 340-706.000.

Ohta, Haruo: *See*—
Tomita, Masao; Hashima, Akio; Ohta, Haruo; and Matsuo, Tadaaki, 4,686,583, Cl. 358-336.000.

Ohta, Harutaka; Miyamoto, Kazuchiyo; Terayama, Aratero; Maruhashi, Seiji; and Gohdo, Shigeru, to Nippon Kokan Kabushiki Kaisha. Mooring apparatus. 4,708,082, 11-24-87, Cl. 114-230.000.

Ohta, Hiromi; Ogawa, Shinji; Kajikawa, Yosiharu; Fukumura, Keiichi; Tsuchiya, Kiyomitsu; Kittaka, Kiyoshi; and Narita, Katsushi, to Nippondenso Co., Ltd. Receiver for refrigerant apparatus. 4,707,999, 11-24-87, Cl. 62-474.000.

Ohta, Hironobu: *See*—
Kobayashi, Tamotsu; Goto, Shigeru; Ohta, Hironobu; and Torimaru, Takashi, 4,680,973, Cl. 73-861.160.
Suzuki, Kazuie; Torimaru, Takashi; and Ohta, Hironobu, 4,663,976, Cl. 73-861.120.

Ohta, Hiroshi; and Sasaki, Kinji, to TDK Corporation. Magnetic recording medium and process for its production. 4,650,713, 3-17-87, Cl. 428-328.000.

Ohta, Hisashi: *See*—
Yanagiya, Toshio; Isokawa, Kenji; Ohta, Hisashi; and Inaba, Hideaki, 4,634,573, Cl. 420-127.000.

Ohta, Hisatoshi, to Toyota Jidosha Kabushiki Kaisha. Control apparatus for automotive power-operated convertible roof. 4,644,235, 2-17-87, Cl. 318-282.000.

Ohta, Ikumi: *See*—
Iesaka, Takashi; Wada, Takaaki; Ohta, Ikumi; and Izumi, Masayuki, 4,638,618, Cl. 52-509.000.

Ohta, Jiro, to Hitachi, Ltd. Tubular water wheel. 4,639,190, 1-27-87, Cl. 415-129.000.

Ohta, Kazuhisa: *See*—
Kanoh, Kunihiko; Matsuki, Kanji; Ohta, Kazuhisa; and Sunohara, Tadaomi, 4,711,289, Cl. 164-34.000.

Ohta, Kazutoshi; and Nakata, Minoru, to Mitsubishi Denki Kabushiki Kaisha. Elevator control apparatus. 4,653,611, 3-31-87, Cl. 187-107.000.

Ohta, Kazutoshi; Takemoto, Kenichi; and Makino, Katsumi, to Mitsubishi Denki Kabushiki Kaisha. Method for manufacturing a decorative sheet. 4,666,743, 5-19-87, Cl. 427-265.000.

Ohta, Kazuya: *See*—
Matsuura, Toshio; Murakami, Seiro; Imai, Yuji; Ohta, Kazuya; and Tanimoto, Akikazu, 4,702,606, Cl. 356-401.000.
Murakami, Seiro; Matsuura, Toshio; Imai, Yuji; and Ohta, Kazuya, 4,655,598, Cl. 356-400.000.

Ohta, Kazuyo: *See*—
Fujiwara, Tatsuro; Ohta, Kazuyo; and Hirano, Takao, 4,652,638, Cl. 536-7.100.
Fujiwara, Tatsuro; Ohta, Kazuyo; Honda, Eiichi; Hirano, Takao; and Sakakibara, Hideo, 4,661,588, Cl. 536-7.100.

Ohta, Kazuyuki: *See*—
Ishikawa, Yoshirou; Ohta, Kazuyuki; and Mitsuhashi, Shinobu, 4,647,815, Cl. 315-3.000.

Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, to Sharp Kabushiki Kaisha. Optical memory disc. 4,634,617, 1-6-87, Cl. 428-65.000.

Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, to Sharp Kabushiki Kaisha. Optical memory disc. 4,658,393, 4-14-87, Cl. 369-290.000.

Ohta, Kenji; Deguchi, Toshihisa; and Takahashi, Akira, to Sharp kabushiki Kaisha. Method of forming permanent memory locations in a magnetooptic memory medium. 4,677,601, 6-30-87, Cl. 369-13.000.

Ohta, Kenji: *See*—
Takahashi, Akira; Murakami, Yoshiteru; Hirokane, Junji; Katayama, Hiroyuki; and Ohta, Kenji, 4,695,514, Cl. 428-432.000.

Ohta, Kiyoshi, to NEC Corporation. FSK or FM burst signal generating apparatus. 4,706,262, 11-10-87, Cl. 375-60.000.

Ohta, Koji; Yoshimura, Masaaki; and Takahashi, Mizunori, to Dic-Hercules Chemicals, Inc. Rosin emulsion sizing agent. 4,681,909, 7-21-87, Cl. 524-272.000.

Ohta, Koji: *See*—
Kusunoki, Gen; Meguro, Akira; Tokushima, Yasuo; Ohta, Koji; Kawai, Tadashi; and Sugata, Akihiko, 4,667,621, Cl. 118-687.000.

Ohta, Kosei: *See*—
Takazoe, Ichiro; Ohta, Kosei; Shimizu, Junichi; Suzuki, Kazumasa; Iwakura, Tatsuya; and Nakajima, Yoshikazu, 4,695,326, Cl. 127-30.000.

Ohta, Kunihi, to NEC Corporation. Hetero-junction bipolar transistor having a high switching speed. 4,670,767, 6-2-87, Cl. 357-34.000.

Ohta, Kuniteru: *See*—
Harase, Jiro; Ohta, Kuniteru; Takeshita, Tetsuru; and Endo, Michio, 4,709,742, Cl. 164-76.100.

Ohta, Masafumi, to Ricoh Co., Ltd. Disazo triphenylamine compounds. 4,663,442, 5-5-87, Cl. 534-759.000.

Ohta, Masahiro: *See*—
Moriyama, Masao; Ohta, Masahiro; Yagi, Toshiaki; and Kawano, Kazuhiro, 4,702,257, Cl. 128-653.000.

Ohta, Masakatsu, to Canon Kabushiki Kaisha. Illumination apparatus. 4,683,524, 7-28-87, Cl. 362-268.000.

Ohta, Masaki; Suzuki, Shinichi; and Takenaka, Kenji, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Control mechanism for variable displacement swash plate type compressor. 4,674,957, 6-23-87, Cl. 417-222.000.

Ohta, Masaki: *See*—
Inagaki, Mitukane; Ohta, Masaki; Hyodo, Akihiko; Takenaka, Kenji; Mitibata, Takashi; Suzuki, Shinichi; and Kayukawa, Hiroaki, 4,712,982, Cl. 417-222.000.
Suzuki, Shigeru; Ohta, Masaki; and Takenaka, Kenji, 4,687,419, Cl. 417-222.000.
Suzuki, Shinichi; Takenaka, Kenji; and Ohta, Masaki, 4,688,997, Cl. 417-222.000.
Takenaka, Kenji; Ohta, Masaki; and Kayukawa, Hiroaki, 4,685,866, Cl. 417-222.000.
Takenaka, Kenji; Suzuki, Shinichi; Kayukawa, Hiroaki; and Ohta, Masaki, 4,702,677, Cl. 417-222.000.

Ohta, Masao: *See*—
Kato, Yasuyoshi; Teshima, Nobue; Ohta, Masao; and Konishi, Kunihiko, 4,711,872, Cl. 502-328.000.

Ohta, Masataka, to Kabushiki Kaisha Sato. Bar code reading method and apparatus. 4,687,912, 8-18-87, Cl. 235-463.000.

Ohta, Masataka: *See*—
Ishikuro, Tadashi; Honda, Kunihiko; Ohta, Masataka; and Shirahata, Ryuji, 4,661,421, Cl. 428-694.000.

Ohta, Masatoshi: *See*—
Abe, Shuro; Yabuki, Yoshiro; Takamatsu, Yasuhiko; Yamaguchi, Takayuki; Ohta, Masatoshi; and Nakamura, Eiji, 4,651,164, Cl. 346-76.0PH.

Ohta, Masayuki: *See*—
Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.

Ohta, Minoru; Miura, Kazuhiko; Onoda, Michitoshi; Iwasaki, Yukio; and Hattori, Tadashi, to Nippon Soken, Inc. Film resistor for flow measuring apparatus. 4,705,713, 11-10-87, Cl. 428-209.000.

Ohta, Minoru: *See*—
Ikeda, Hirotane; Hattori, Tadashi; Ohta, Minoru; and Mukainakano, Shinichi, 4,714,047, Cl. 118-724.000.
Kanehara, Kenji; Huzino, Seizi; Miura, Kazuhiko; and Ohta, Minoru, 4,688,425, Cl. 73-204.000.
Kawai, Chiaki; Ohta, Minoru; and Inaba, Takahisa, 4,686,919, Cl. 114-45.000.
Okonogi, Shigeo; Yuguchi, Hiroya; Miyazaki, Yusuke; Tana, Sumio; and Ohta, Minoru, 4,668,520, Cl. 426-564.000.

Ohta, Morio; Tsuchiya, Shizuo; Nakano, Yoshito; Aikawa, Masaru; and Asaumi, Seiji, to Casio Computer Co., Ltd.; and Casio Electronic Manufacturing Co., Ltd. Recording apparatus with double frequency driven liquid crystal shutter. 4,641,156, 2-3-87, Cl. 346-160.000.

Ohta, Morio; and Tsuchiya, Shizuo, to Casio Computer Co., Ltd.; and Casio Electronics Manufacturing Co., Ltd. Recording apparatus. 4,649,404, 3-10-87, Cl. 346-160.000.

Ohta, Noboru: *See*—
Mitsui, Akio; and Ohta, Noboru, 4,681,837, Cl. 430-504.000.

Ohta, Nobuhiro: *See*—
Suzuki, Niichiro; Ogushi, Yoshimi; Imai, Kiyoshi; Ohta, Nobuhiro; and Ueno, Susumu, 4,639,285, Cl. 156-272.600.

Ohta, Noburo: *See*—
Jost, Manfred; Knoke, Jurgen; Yoshida, Zenji; Ohta, Noburo; and Nakanishi, Terumo, 4,696,850, Cl. 428-197.000.

Ohta, Norima: *See*—
Saida, Toyoyasu; Sunagawa, Takahisa; Yamakawa, Tsuneo; Ohta, Norima; and Obara, Keishi, 4,686,068, Cl. 252-632.000.

Ohta, Norio; Okamine, Shigenori; Sugita, Yutaka; Seo, Yosuke; and Tamura, Takashi, to Hitachi, Ltd. Optical read-out magnetic head. 4,707,755, 11-17-87, Cl. 360-114.000.

Ohta, Norio; Yanagishima, Fumiya; Kaihara, Toshikazu; Kishida, Akira; Sato, Kuniaki; and Ochiai, Masanobu, to Kawasaki Steel Corporation. Continuous annealing and pickling method and apparatus for steel strips. 4,713,154, 12-15-87, Cl. 204-145.00R.

Ohta, Norio: *See*—
Shibuki, Osamu; Matsuyama, Noboru; Umemura, Yoichi; Kamiya, Atsushi; Fujii, Takaya; Seki, Masayuki; and Ohta, Norio, 4,664,352, Cl. 248-562.000.
Yoneda, Takao; Ogasawara, Tadashi; Ohta, Norio; and Sakakibara, Yasuji, 4,709,509, Cl. 51-165.710.

Ohta, Shinichi, to Canon Kabushiki Kaisha. Image recording apparatus. 4,710,821, 12-1-87, Cl. 358-256.000.

...ta, Shunzo: *See*—
Enomoto, Yoshinori; Monma, Hideo; Ohta, Shunzo; and Sasaki, Takeshi, 4,703,483, Cl. 371-24.000.

...ta, Takahiro; Inuiya, Masafumi; and Fujimura, Ikuo, to Fuji Photo Film Co., Ltd. Method of and apparatus for recording video signal associated with photographic image. 4,641,198, 2-3-87, Cl. 358-285.000.

...ta, Takahiro; Inuiya, Masafumi; Kobayashi, Kazuyoshi; and Murakami, Takashi, to Fuji Photo Film Co., Ltd. Method of and apparatus for producing video signal associated with photographic image. 4,642,700, 2-10-87, Cl. 358-285.000.

...ta, Takao: *See*—
Kuwabara, Hideo; and Ohta, Takao, 4,638,128, Cl. 200-33.00R.

...ta, Takeshi; Nakamura, Hiroshi; and Murata, Kazushi, to Toyoda Koki Kabushiki Kaisha. Tool and workpiece change system. 4,685,850, 8-11-87, Cl. 414-225.000.

...ta, Teruo, to Sony Corporation. Disk cartridge. 4,682,322, 7-21-87, Cl. 369-291.000.

...ta, Tokuya: *See*—
Haruta, Masahiro; Kobayashi, Masatsune; and Ohta, Tokuya, 4,655,834, Cl. 106-20.000.
Haruta, Masahiro; Kobayashi, Masatsune; and Ohta, Tokuya, 4,655,835, Cl. 106-20.000.
Mirua, Konoe; Takimoto, Hiroshi; Kaneko, Toshio; Ohta, Tokuya; Kobayashi, Masatsune; and Eida, Tsuyoshi, 4,683,002, Cl. 106-20.000.

...ta, Tomohisa; Dobashi, Akihiko; Kanbara, Hisashige; and Seki, Tsuyuki, to Hitachi Chemical Co., Ltd. Radiation curable adhesive composition for surface protective film. 4,659,788, 4-21-87, Cl. 525.518.000.

...ta, Tomohisa; Dobashi, Akihiko; Kanbara, Hisashige; and Seki, Tsuyuki, to Hitachi Chemical Company, Ltd. Radiation curable pressure-sensitive adhesive composition. 4,665,106, 5-12-87, Cl. 522.49.000.

...ta, Tomozo; and Nakano, Hiroshi, to Sharp Kabushiki Kaisha. Image depression mixer of the waveguide type. 4,654,888, 3-31-87, Cl. 455.328.000.

...ta, Tomozo; Higashi, Kazutada; and Yamamoto, Hirohiko, to Sharp Kabushiki Kaisha. Antenna system. 4,712,111, 12-8-87, Cl. 343.779.000.

...ta, Toshihiko; and Okada, Fujio, to Toyo Boseki Kabushiki Kaisha. Polyethylene filaments and their production. 4,668,577, 5-26-87, Cl. 428-364.000.

...ta, Toshihiko: *See*—
Endoh, Seiji; Kimura, Kunio; Ohta, Toshihiko; and Kato, Yasuo, 4,673,724, Cl. 528-206.000.
Okada, Fujio; and Ohta, Toshihiko, 4,643,865, Cl. 264-288.400.

...ta, Wasaburo; Enomoto, Takamichi; and Uehara, Kiyohiro, to Ricoh Company, Ltd. Liquid crystal color display device. 4,678,285, 7-7-87, Cl. 350-345.000.

...ta, Yasuhiro: *See*—
Sugimori, Tsunetake; Tsukada, Yoji; Uchida, Yoshihiro; and Ohta, Yasuhiro, 4,699,883, Cl. 435-232.000.
Terao, Motoyasu; Nishida, Tetsuya; Ohta, Yasuhiro; Horigome, Shinkichi; and Miyauchi, Yasushi, 4,668,573, Cl. 428-336.000.

...ta, Yoshinori; and Nishizawa, Jun-ichi, to Olympus Optical Co., Ltd., and Nishizawa, Jun-ichi. JFET imager having light sensing conversion layer induced by insulator charge. 4,684,968, 8-4-87, Cl. 357-30.000.

...ta, Yoshinori; Sakuma, Isamu; Hibiya, Taketoshi; and Sakaguchi, Mitsuhito, to NEC Corporation. Semiconductor laser apparatus with resistor. 4,686,678, 8-11-87, Cl. 372-33.000.

...ta, Yoshio; Chikamura, Takao; Miyata, Yutaka; Yano, Kohsaku; and Fujiwara, Shinji, to Matsushita Electric Industrial Co., Ltd. Solid state imager. 4,661,830, 4-28-87, Cl. 357-30.000.

...ta, Yoshio: *See*—
Ozawa, Isao; Ito, Noboru; Takizawa, Masaaki; Ohta, Yoshio; and Ijichi, Kiyoteru, 4,635,910, Cl. 267-140.100.

...ta, Youichi: *See*—
Hirama, Shinichi; Nishiyama, Toshio; Ohta, Youichi; Uzuka, Makoto; Tomita, Kenichi; Nakajima, Keisuke; and Furuse, Kazumaro, 4,713,397, Cl. 514-690.000.

...ta, Yukio: *See*—
Kikuchi, Hiroshi; Ohta, Yukio; and Watanabe, Shyoichi, 4,657,415, Cl. 400-59.000.
Kikuchi, Hiroshi; Watanabe, Shyoichi; and Ohta, Yukio, 4,690,577, Cl. 400-708.000.

...ntaguro, Masami: *See*—
Ando, Shinji; Ohtaguro, Masami; Masuda, Takayoshi; and Watanabe, Yoshimoto, 4,713,245, Cl. 424-438.000.

...mai, Hideo: *See*—
Tsuneki, Takao; Ano, Shinji; Uchida, Takahiko; Imai, Tomoyasu; Okamoto, Masaru; Ohtaka, Hideo; and Murakami, Hiromi, 4,666,609, Cl. 210-701.000.

...taka, Hiroshi; Kanazawa, Toshiro; Ito, Keizo; and Tsukamoto, Ryozo, to Kanebo Ltd. 1-(2,3,4-tri-methoxybenzyl)-4[bis(4-fluorophenyl)methyl] piperazines are useful for treating cerebrovascular disease. 4,663,325, 5-5-87, Cl. 514-255.000.

...taka, Hiroshi; Kanazawa, Toshiro; Ito, Keizo; and Tsukamoto, Ryozo, to Kanebo Ltd. Novel 1-benzhydryl-4-cinnamylpiperazine derivatives, and pharmaceutical compositions comprising said compounds as active ingredient for treating a cerebrovascular disease. 4,703,048, 10-27-87, Cl. 514-255.000.

...taka, Keiji; Akashi, Akira; Ishizaki, Akira; Suda, Yasuo; and Hiramatsu, Akira, to Canon Kabushiki Kaisha. Focus detecting device with shading reduction optical filter. 4,670,645, 6-2-87, Cl. 250-201.000.

Ohtaka, Keiji; Hiramatsu, Akira; Suda, Yasuo; Akashi, Akira; and Ishizaki, Akira, to Canon Kabushiki Kaisha. Focus detector system with a distortion compensation mask. 4,698,492, 10-6-87, Cl. 250-201.000.

Ohtaka, Keiji, to Canon Kabushiki Kaisha. Sharp focus detecting device. 4,712,901, 12-15-87, Cl. 354-407.000.

Ohtaka, Keiji: *See*—
Akashi, Akira; Ohmura, Hiroshi; Ishizaki, Akira; Ohtaka, Keiji; and Suda, Yasuo, 4,716,282, Cl. 250-201.000.
Ishizaki, Akira; Akashi, Akira; Ohtaka, Keiji; Suda, Yasuo; and Hiramatsu, Akira, 4,643,557, Cl. 354-406.000.
Koyama, Takeshi; and Ohtaka, Keiji, 4,699,493, Cl. 354-406.000.
Suda, Yasuo; Ishizaki, Akira; Ohtaka, Keiji; Akashi, Akira; and Hiramatsu, Akira, 4,634,255, Cl. 354-406.000.
Suda, Yasuo; Ohmura, Hiroshi; Ishizaki, Akira; Akashi, Akira; and Ohtaka, Keiji, 4,688,920, Cl. 354-406.000.

Ohtaka, Shoichi; Miyano, Hideyo; Nuiya, Yoshio; and Kondo, Yukio, to Honda Giken Kogyo Kabushiki Kaisha. Crankcase ventilating system and method of removing oil mist from gas in the system. 4,667,647, 5-26-87, Cl. 123-573.000.

Ohtaka, Tadashi; Nakaizumi, Yasushi; and Kuroda, Katsuhiro, to Hitachi, Ltd. Secondary electron detecting apparatus. 4,658,136, 4-14-87, Cl. 250-310.000.

Ohtaka, Tadashi, to Hitachi, Ltd. Specimen-exchanging apparatus. 4,705,950, 11-10-87, Cl. 250-441.100.

Ohtake, Masatoshi: *See*—
Yonezawa, Seiji; Ohtake, Masatoshi; Ito, Masaru; Tsuyoshi, Toshiaki; Ichino, Kazuo; and Nakagaki, Harushige, 4,707,816, Cl. 369-44.000.

Ohtake, Masayuki: *See*—
Alaki, Yasuhide; Ohtake, Masayuki; and Ihara, Keisuke, 4,681,323, Cl. 273-232.000.

Ohtake, Matsuo: *See*—
Suzuki, Hidemasa; Watanabe, Mitsuru; and Ohtake, Matsuo, 4,669,230, Cl. 51-415.000.

Ohtake, Nobumasa: *See*—
Nakano, Takaharu; and Ohtake, Nobumasa, 4,658,049, Cl. 556-437.000.

Ohtake, Takeshi: *See*—
Katagiri, Kazuhara; Oguchi, Yoshihiro; Ohtake, Takeshi; Arao, Kozo; Kitahara, Makoto; and Takasu, Yoshio, 4,673,630, Cl. 430-72.000.

Ohtake, Yasuhisa; Kudou, Makoto; and Sengoku, Yasushi, to Kabushiki Kaisha Toshiba. Method of manufacturing shadow mask. 4,662,984, 5-5-87, Cl. 156-637.000.

Ohtake, Yasuhisa; and Harigae, Makoto, to Kabushiki Kaisha Toshiba. Method for manufacturing a shadow mask. 4,689,114, 8-25-87, Cl. 156-644.000.

Ohtake, Yasuhisa: *See*—
Inaba, Michihiko; Kanto, Masaharu; Shikanai, Satoshi; and Ohtake, Yasuhisa, 4,665,338, Cl. 313-402.000.
Inaba, Michihiko; Fujiwara, Tetsuo; Kanto, Masaharu; Ohtake, Yasuhisa; and Mori, Fumio, 4,698,545, Cl. 313-402.000.
Kanto, Masaharu; Akiyoshi, Eiichi; and Ohtake, Yasuhisa, 4,708,680, Cl. 445-47.000.

Ohtaki, Eizaburo; and Niikawa, Ryo, to Honda Giken Kogyo Kabushiki Kaisha. Workpiece conveying apparatus. 4,646,915, 3-3-87, Cl. 198-345.000.

Ohtaki, Kiyoshi; and Hara, Kazuo, to Fuji Jukogyo Kabushiki Kaisha. Air-fuel ratio control system. 4,651,695, 3-24-87, Cl. 123-438.000.

Ohtaki, Kiyoshi; and Hara, Kazuo, to Fuji Jukogyo Kabushiki Kaisha. Air-fuel ratio control system. 4,651,699, 3-24-87, Cl. 123-438.000.

Ohtaki, Kiyoshi; and Hara, Kazuo, to Fuji Jukogyo Kabushiki Kaisha. Air-fuel ratio control system. 4,655,181, 4-7-87, Cl. 123-440.000.

Ohtaki, Kiyoshi; and Hara, Kazuo, to Fuji Jukogyo Kabushiki Kaisha. Air-fuel ratio control system. 4,671,238, 6-9-87, Cl. 123-438.000.

Ohtaki, Shinji: *See*—
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,664,963, Cl. 428-142.000.
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,675,075, Cl. 156-650.000.

Ohtani, Hideaki: *See*—
Kigasawa, Kazuo; Ohtani, Hideaki; Tanaka, Makoto; and Hayashida, Shigeru, 4,695,465, Cl. 424-449.000.

Ohtani, Hirofumi: *See*—
Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, 4,701,405, Cl. 430-567.000.
Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, 4,704,351, Cl. 430-567.000.

Ohtani, Hiroyasu: *See*—
Busujima, Hiroshi; and Ohtani, Hiroyasu, 4,657,382, Cl. 356-4.000.

Ohtani, Hisao: *See*—
Maruyamano, Satoru; and Ohtani, Hisao, 4,646,902, Cl. 192-113.00A.
Maruyamano, Satoru; and Ohtani, Hisao, 4,655,335, Cl. 192-99.00S.
Umeyama, Mitsuhiro; Wakahara, Kazuru; Ohtani, Hisao; Kametaka, Kenichi; Kinoshita, Masaru; and Kobayashi, Nobuyuki, 4,693,354, Cl. 192-106.100.

Ohtani, Noboru: *See*—
Funaki, Masaaki; Ohtani, Noboru; Yoshida, Motoaki; Fujioka, Akira; and Sakiyama, Kazuo, 4,642,266, Cl. 428-412.000.

Ohtani, Takayuki; Isobe, Mitsuo; Aono, Akira; and Urakawa, Nobuaki, to Kabushiki Kaisha Toshiba. Current-mirror type sense amplifier. 4,697,112, 9-29-87, Cl. 307-530.000.

Ohtani, Tamio; Kanaya, Yasuhiko; Aoyama, Hiroshi; and Nonaka, Nobuyasu, to Hitachi Seiko Ltd. Apparatus for drilling printed circuit boards. 4,658,494, 4-21-87, Cl. 29-568.000.

Ohtani, Teruo; Tamura, Toshihisa; Ikeda, Yuji; Araikawa, Mutsuya; and Kywata, Kazuyoshi, to Kawasaki Steel Corporation. Apparatus for forming unevenness on an outer surface of a synthetic resin-coated steel pipe. 4,696,635, 9-29-87, Cl. 425-330.000.

Ohtani, Wataru: *See*—
Uemura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sumi, Akinori; Ohtani, Wataru; Sakanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu, 4,694,074, Cl. 530-417.000.

Ohtani, Yoshiaki: *See*—
Tamura, Mitsuhiko; Katsumata, Haruo; Urakawa, Kiyoharu; and Ohtani, Yoshiaki, 4,668,827, Cl. 568-345.000.

Ohtani, Yoshio, to Diesel Kiki Co., Ltd. Circuit for controlling solenoid clutch. 4,636,912, 1-13-87, Cl. 361-154.000.

Ohtawa, Shuzi, to Seiko Instruments & Electronics Ltd. Electronic timepiece driven by a plurality of stepping motors and powered by a solar cell. 4,702,613, 10-27-87, Cl. 368-66.000.

Ohto, Masao: *See*—
Tanaka, Masataka; Ohto, Masao; Sekine, Tetsuo; Isobe, Koji; and Maruyama, Masaru, 4,643,196, Cl. 128-753.000.

Ohtomo, Fumio; Hori, Nobuo; Horikawa, Yoshio; Kimura, Kazuaki; and Sugai, Hiroo, to Tokyo Kogaku Kikai Kabushiki Kaisha. Optical adapter for a light-wave rangefinder. 4,692,023, 9-8-87, Cl. 356-5.000.

Ohtomo, Fumio: *See*—
Hori, Nobuo; Yokokura, Takashi; and Ohtomo, Fumio, 4,660,290, Cl. 33-366.000.

Ohtomo, Hideo: *See*—
Kuwata, Tamotsu; Suginaka, Yutaka; and Ohtomo, Hideo, 4,673,583, Cl. 426-573.000.

Ohtomo, Nobuya; Mizuno, Kyosuke; Hamada, Fukusaburo; and Mizokami, Hiroshi, to Juridical Foundation, The Chemo-Sero-Therapeutic Research Institute. Lyophilized hepatitis B vaccine. 4,710,378, 12-1-87, Cl. 424-89.000.

Ohtomo, Nobuya: *See*—
Kino, Yoichiro; and Ohtomo, Nobuya, 4,661,349, Cl. 424-89.000.

Ohtomo, Seiya; Aoki, Minoru; and Kasai, Yoshio. Method and device for shaping or molding stick cosmetics. 4,664,615, 5-12-87, Cl. 425-215.000.

Ohtorii, Masakazu, to Dainippon Screen Mfg. Co., Ltd. Device for reproduction and tracing. 4,690,527, 9-1-87, Cl. 353-65.000.

Ohtsu, Keiichiro: *See*—
Futamura, Kenichiro; Ohtsu, Keiichiro; Fukuoka, Tatsuhiko; Takenaka, Kenji; Itakura, Yoshio; and Koga, Hiroshi, 4,641,570, Cl. 92-71.000.
Futamura, Kenichiro; and Ohtsu, Keiichiro, 4,683,804, Cl. 92-71.000.

Ohtsu, Kiyonao, to Motorola, Inc. Video field decoder. 4,661,798, 4-28-87, Cl. 340-744.000.

Ohtsu, Takawo: *See*—
Inagami, Kaoru; and Ohtsu, Takawo, 4,661,126, Cl. 55-97.000.

Ohtsubo, Akio, to Bayer Aktiengesellschaft. Perpendicular magnetic recording medium. 4,643,942, 2-17-87, Cl. 428-328.000.

Ohtsubo, Mitsuru: *See*—
Okoshi, Noboru; Motomura, Masatoshi; Ohtsubo, Mitsuru; and Ikeda, Takenori, 4,710,230, Cl. 106-308.00N.

Ohtsubo, Nobuhiro: *See*—
Hirotsuka, Motohiko; Harada, Tetsuro; Ohtsubo, Nobuhiro; Kawade, Hiroyuki; Hayakawa, Yoshiyuki; and Taniguchi, Hitoshi, 4,702,927, Cl. 426-4o7.000.

Ohtsubo, Yasuo, to Tokyo Shibaura Denki Kabushiki Kaisha. Floating head slider. 4,646,180, 2-24-87, Cl. 360-103.000.

Ohtsubo, Yasuo: *See*—
Honda, Toshio; Ohhashi, Toshiro; and Ohtsubo, Yasuo, 4,715,247, Cl. 74-640.000.

Ohtsuga, Hisao; Morinaga, Akio; Sakaguchi, Yoichi; Hyodo, Masakatsu; and Yagi, Isaburo, to Tokyo Gas Co., Ltd. Tubular lining material for pipe line. 4,684,556, 8-4-87, Cl. 428-36.000.

Ohtsuji, Masahiko: *See*—
Takenaka, Kiyoshi; Ohtsuji, Masahiko; and Kabuto, Hiroaki, 4,707,117, Cl. 355-3.0SH.

Ohtsuji, Masaru; Itoh, Tomonori; Honda, Takashi; Ando, Shinobu; and Matsui, Kazumi, to Sumitomo Rubber Industries, Ltd. Method for positioning seamed balls. 4,657,475, 4-14-87, Cl. 414-786.000.

Ohtsuka, Akira: *See*—
Matsumoto, Kunio; Kagimoto, Yoshitaka; Hirata, Tsutomu; Watanabe, Susumu; Ohtsuka, Akira; and Takahashi, Kiyoharu, 4,675,290, Cl. 435-24.000.

Ohtsuka, Hideaki: *See*—
Sakurai, Yoji; Hirai, Toshiro, Okada, Shigeto; Okada, Takeshi; Yamaki, Jun-ichi; and Ohtsuka, Hideaki, 4,675,260, Cl. 429-191.000.

Ohtsuka, Hiroshi: *See*—
Itoh, Yoshio; Ohtsuka, Hiroshi; Nishimuro, Tadashi; and Moriyama, Norio, 4,640,888, Cl. 430-323.000.

Ohtsuka, Ichiro: *See*—
Tsunewaki, Koichiro; and Ohtsuka, Ichiro, 4,680,888, Cl. 47-58.000.

Ohtsuka, Kanji: *See*—
Tanaka, Masato; and Ohtsuka, Kanji, 4,689,431, Cl. 562-406.000.

Ohtsuka, Katsuyuki: *See*—
Kanai, Makoto; Aikawa, Hideaki; Inada, Eiichi; and Ohtsuka, Katsuyuki, 4,643,846, Cl. 252-626.000.

Ohtsuka, Kazutoshi: *See*—
Masuda, Tatsuo; Enokimoto, Akito; and Ohtsuka, Kazutoshi, 4,641,854, Cl. 280-701.000.

Ohtsuka, Keizou: *See*—
Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; and Hishinuma, Yukio, 4,653,998, Cl. 431-79.000.

Ohtsuka, Masaharu: *See*—
Fukasawa, Tetsuo; Ohtsuka, Masaharu; Uetake, Naohito; and Ozawa, Yoshihiro, 4,659,511, Cl. 252-628.000.

Ohtsuka, Masanori; and Taka, Hideo, to Canon Kabushiki Kaisha. Camera. 4,669,849, 6-2-87, Cl. 354-400.000.

Ohtsuka, Masasuke; Harada, Yoshinori; Tokita, Shigeo; and Maniwa, Hideyo, to Nippon Shiken Dental Co., Ltd. Polymerization composition containing vinyl benzoic acid or a derivative thereof and a vinyl compound. 4,705,836, 11-10-87, Cl. 526-318.100.

Ohtsuka, Nobuaki: *See*—
Tanaka, Sumio; Saito, Shinji; Atsumi, Shigeru; and Ohtsuka, Nobuaki, 4,694,429, Cl. 365-189.000.

Ohtsuka, Nobuo: *See*—
Itani, Kiyoshi; Tokizaki, Hisashi; Funagoshi, Tomohide; Ohtsuka, Nobuo; Ohkubo, Katsuhiro; and Katsuki, Hikaru, 4,698,744, Cl. 364-140.000.

Ohtsuka, Shuichi: *See*—
Sato, Yoshimitsu; Ohtsuka, Shuichi; Kimura, Akinori; Yoda, Akira; Kato, Keishi; and Takahashi, Isoji, 4,697,912, Cl. 355-3.00R.
Shiozawa, Etuo; Harada, Shigeo; Ohtsuka, Shuichi, and Ohnishi, Masahiro, 4,678,312, Cl. 355-3.00R.
Yoda, Akira; Sato, Masamichi; and Ohtsuka, Shuichi, 4,656,356, Cl. 250-326.000.

Ohtsuka, Toshikazu: *See*—
Hayase, Yoshio; Ohtsuka, Toshikazu; Ishiguro, Takeo; and Takahashi, Toshio, 4,663,314, Cl. 514-63.000.
Hayase, Yoshio; Ohtsuka, Toshikazu; Ide, Kinya; and Takahashi, Toshio, 4,695,312, Cl. 71-92.000.

Ohtsuka, Yasumasa; and Ohkubo, Masaharu, to Canon Kabushiki Kaisha. Information recording apparatus. 4,682,876, 7-28-87, Cl. 355-3.00R.

Ohtsuka, Yasumasa; and Ohkubo, Masaharu, to Canon Kabushiki Kaisha. Image recording apparatus. 4,707,748, 11-17-87, Cl. 358-298.000.

Ohtsuka, Yasuo: *See*—
Nakamura, Hiro; Ohkawa, Shuji; Ohtsuka, Yasuo; Tachikawa, Hajime; and Shinozaki, Toshiya, 4,712,970, Cl. 414-730.000.

Ohtsuka, Yoshimichi: *See*—
Ninomiya, Yuichi; Ohtsuka, Yoshimichi; Izumi, Yoshinori; and Goushi, Sei'ichi, 4,692,801, Cl. 358-133.000.
Tanaka, Yutaka; Nishizawa, Taiji; Ninomiya, Yuichi; Ohmura, Toshiro; Kurita, Taiichiro; and Ohtsuka, Yoshimichi, 4,663,665, Cl. 358-140.000.

Ohtsuka, Yukio: *See*—
Kawai, Hiroshi; Ohtsuka, Yukio; and Mizuno, Kuniaki, 4,644,996, Cl. 164-336.000.
Kawai, Hiroshi; Ohtsuka, Yukio; and Mizuno, Kuniaki, 4,674,551, Cl. 164-4.100.

Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobumori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Isobe, Yukihiro; Tanaka, Kazushi; and Shinoura, Osamu, to Toyo Ink Mfg. Co., Ltd. Radiation-curable, magnetic coating material and magnetic recording medium using the same. 4,708,909, 11-24-87, Cl. 428-425.900.

Ohtsuki, Etsuo: *See*—
Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiragi; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Jungro; Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.

Ohtsuki, Fumikazu: *See*—
Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; Ueno, Tsuneya; Matsumoto, Satoshi; Dosai, Takayoshi; Ohtsuki, Fumikazu; Fujimoto, Kazuhiro; and Takahashi, Toshimitsu, 4,669,291, Cl. 72-83.000.

Ohtsuki, Kazuhiko: *See*—
Yamaoka, Kojiro; Yano, Kazuhiko; and Ohtsuki, Kazuhiko, 4,679,673, Cl. 192-21.000.
Yano, Kazuhiko; Ohtsuki, Kazuhiko; Awaya, Takao; and Yoshi Gen, 4,643,687, Cl. 440-75.000.

Ohtsuki, Mitsuo; and Denney, Lloyd W., to Nanometrics Incorporated. Method for electron gun alignment in electron microscope. 4,663,525, 5-5-87, Cl. 250-307.000.

Ohtsuki, Osamu, to Fujitsu Limited. Charge coupled device with meander channel and elongated, straight, parallel gate electrode. 4,639,940, 1-27-87, Cl. 377-60.000.

Ohtsuki, Takashi: *See*—
Wada, Yasutaro; and Ohtsuki, Takashi, 4,636,849, Cl. 358-106.000.

Ohtsuki, Tomonari; and Uchida, Kanzaburo, to Daiichi Denshi Kogyo Kabushiki Kaisha. Connector having lock means. 4,671,594, 6-9-87, Cl. 439-347.000.

Ohtsuki, Tomonari; and Tsurumaki, Kazuyoshi, to Daiichi Denshi Kogyo Kabushiki Kaisha. Electronic card connecting circuit. 4,695,914, 9-22-87, Cl. 361-42.000.

Ohtsuki, Tomonari; Ishii, Masaru; and Takeda, Mitsuru, to Allied Corporation. Fiber optic connector. 4,699,458, 10-13-87, Cl. 350-96.210.

Ohtsuki, Tomonari: *See*—
Kato, Matsuo; Ohtsuki, Tomonari; Hashimoto, Kazuya; and Iwaide, Masami, 4,706,381, Cl. 29-857.000.

Ohtsuki, Toru; Oshima, Yoshio; Ishikawa, Sako; Yabe, Hideaki; and Fukuta, Masaharu, to Hitachi, Ltd. Apparatus for decimal multiplication. 4,677,583, 6-30-87, Cl. 364-756.000.

Ohtsuki, Toru: *See*—
Yabe, Hideaki; Oshima, Yoshio; Ishikawa, Sako; Ohtsuki, Toru; and Fukuta, Masaharu, 4,635,220, Cl. 364-763.000.

Ohuchi, Masayuki; Oodaira, Hirosi; and Yoshida, Kenichi, to Kabushiki Kaisha Toshiba. Method of manufacturing a circuit module. 4,635,356, 1-13-87, Cl. 29-841.000.

Ohuchi, Masayuki: *See*—
Oodaira, Hirosi; Suzuki, Haruko; Saito, Masayuki; and Ohuchi, Masayuki, 4,694,138, Cl. 219-121.01.M.

Ohuchi, Muneki, to Jeol Ltd. Two-dimensional nuclear magnetic resonance spectrometry. 4,677,383, 6-30-87, Cl. 324-309.000.

Ohuchi, Muneki: *See*—
Kamo, Osamu; Ohuchi, Muneki; and Matsushita, Kazuhiro, 4,641,096, Cl. 324-311.000.
Seto, Haruo; Furihata, Kazuo; and Ohuchi, Muneki, 4,689,561, Cl. 324-307.000.

Ohuchi, Norikazu, to Sony Corporation. Method of manufacturing semiconductor devices. 4,678,537, 7-7-87, Cl. 156-643.000.

Ohuchi, Seiji: *See*—
Muguruma, Taku; and Ohuchi, Seiji, 4,703,304, Cl. 340-52.00R.

Ohuchi, Shokichi: *See*—
Umezawa, Hamao; Takeuchi, Tomio; Aoyagi, Takaaki; and Ohuchi, Saokichi, 4,661,495, Cl. 514-275.000.

Ohue, Kazuto; Kondou, Toshiyuki; Takeuchi, Hisaharu; and Ikeda, Yuzo, to Asahi Kasei Kogyo Kabushiki Kaisha. Non-woven fabric, and oil water separating filter and oil-water separating method. 4,663,222, 5-5-87, Cl. 428-224.000.

Ohue, Kazuto; Kondou, Toshiyuki; Takeuchi, Hisaharu; and Ikeda, Yuzo, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for separating an oil from an oil-containing liquid. 4,707,269, 11-17-87, Cl. 210-651.000.

Ohura, Akio: *See*—
Morimoto, Hiroshi; and Ohura, Akio, 4,694,086, Cl. 564-236.000.

Ohura, Masaki; and Saito, Makoto, to Hitachi, Ltd. Thin film magnetic head having magnetic layers of different thickness and manufacturing method therefor. 4,636,901, 1-13-87, Cl. 360-126.000.

Ohura, Masaki: *See*—
Takeda, Yukio; Iijima, Shiro; Higuchi, Shinsuke; Ohura, Masaki; and Nagaike, Sadanori, 4,639,803, Cl. 360-103.000.

Ohwada, Katsuaki, to NEC Corporation. Vector mask control system. 4,656,581, 4-7-87, Cl. 364-200.000.

Ohwada, Kuniki: *See*—
Enoki, Takatomo; Yamasaki, Kimiyoshi; and Ohwada, Kuniki, 4,694,564, Cl. 437-40.000.

Ohwada, Mitsutoshi: *See*—
Suda, Shigeyuki; Niwa, Yukichi; Ogino, Yasuo; Kawakami, Eigo; and Ohwada, Mitsutoshi, 4,667,316, Cl. 369-44.000.

Ohwada, Yoshiaki: *See*—
Shimbo, Masaru; Fukuda, Kiyoshi; and Ohwada, Yoshiaki, 4,638,552, Cl. 29-576.000.

Ohya, Hidenobu: *See*—
Komamura, Tawara; and Ohya, Hidenobu, 4,650,748, Cl. 430-548.000.

Ohya, Hiroshi; and Terui, Nobuo, to Olympus Optical Co., Ltd. Automatic telephone answering apparatus with remote control signal muting. 4,700,376, 10-13-87, Cl. 379-77.000.

Ohya, Kanji; Wakita, Naomasa; and Nakagawa, Yasuhiko, to NGK Spark Plug Co., Ltd. Piezoelectric scanning device. 4,651,046, 3-17-87, Cl. 310-328.000.

Ohya, Kanji; and Achiha, Hikaru, to NGK Spark Plug Co., Ltd. Piezoresonator and manufacturing method therefor. 4,684,843, 8-4-87, Cl. 310-355.000.

Ohya, Kazuaki: *See*—
Tabata, Kuniaki; Machida, Tetsuo; and Ohya, Kazuaki, 4,658,349, Cl. 364-200.000.

Ohya, Koichi: *See*—
Kumamoto, Kenichiro; Sato, Akira; Ohya, Koichi; and Matsuda, Koichi, 4,691,378, Cl. 455-301.000.

Ohya, Masaki; Nishimoto, Yoshiharu; and Shibuya, Kunio, to Kureha Kagaku Kogyo Kabushiki Kaisha. Heat-resistant and oil-resistant laminate film and process for preparing the same. 4,699,846, 10-13-87, Cl. 428-516.000.

Ohya, Nobumasa: *See*—
Imai, Ryusaku; Sekiguchi, Fujio; Chou, Tomoyuki; Ohya, Nobumasa; and Sato, Hitoshi, 4,654,483, Cl. 379-54.000.

Ohya, Satoshi; and Hoshi, Katsuhiko, to Sanyo Electric Co., Ltd. System for controlling flow rate of refrigerant. 4,674,292, 6-23-87, Cl. 62-223.000.

Ohya, Takegi; and Shono, Noboru, to Mazda Motor Corporation. Vehicle door. 4,662,115, 5-5-87, Cl. 49-502.000.

Ohya, Takegi, to Mazda Motor Corporation. Front door structure for vehicle. 4,709,957, 12-1-87, Cl. 296-146.000.

Ohya, Takeji: *See*—
Maeda, Tatsuo; and Ohya, Takeji, 4,711,052, Cl. 49-502.000.

Ohya, Takeshi: *See*—
Nemoto, Kayoko; and Ohya, Takeshi, 4,642,621, Cl. 340-721.000.

Ohya, Toshikazu: *See*—
Kamiji, Koichi; and Ohya, Toshikazu, 4,695,075, Cl. 280-735.000.
Kumasaka, Toru; Kamiji, Koichi; and Ohya, Toshikazu, 4,673,912, Cl. 340-52.00R.
Kumasaka, Toru; Ohya, Toshikazu; and Kamiji, Koichi, 4,701,628, Cl. 307-9.000.

Ohya, Yukio: *See*—
Hirabayashi, Shigeto; Matsuzaka, Syoji; Ohya, Yukio; and Nonaka, Yoshiyuki, 4,710,453, Cl. 430-505.000.

Ohyabu, Shuzo; Kawai, Syuji; Okamoto, Takehiko; and Migaki, Takao, to Kuraray Co. Ltd. Composite hollow fiber-type separation membranes, processes for the preparation thereof and their use. 4,664,669, 5-12-87, Cl. 623-66.000.

Ohyagi, Takashi; and Ichikawa, Yoshio, to NEC Corporation. Digital paging system having bit rate switching means and digital paging receiver therefor. 4,642,632, 2-10-87, Cl. 340-825.440.

Ohyama, Masachika: *See*—
Hiramoto, Tatsumi; Iwai, Ikuo; Ohyama, Masachika; and Narita, Mitsuo, 4,704,346, Cl. 430-311.000.

Ohyama, Masao, to Sony Corporation. Magnetic recording and reproducing apparatus. 4,641,210, 2-3-87, Cl. 360-96.500.

Ohyama, Masao, to Sony Corporation. Magnetic recording and/or reproducing apparatus with tape loading and reel braking mechanisms which are controlled in common. 4,685,008, 8-4-87, Cl. 360-85.000.

Ohyama, Masao; Yamamoto, Yoshinori; Horikawa, Kenichi; and Kawakami, Kenji, to Sony Corporation. Tape cassette with concave engagement portion and player with hook engageable therewith. 4,694,360, 9-15-87, Cl. 360-96.500.

Ohyama, Takashi: *See*—
Ochiai, Hideo; Shigihara, Akira; and Ohyama, Takashi, 4,671,782, Cl. 474-93.000.

Ohyama, Tetsuo: *See*—
Aonuma, Mitsuyoshi; Watanabe, Hiroyuki; Kawada, Haruki; Noguchi, Kohkichi; Ueda, Akio; Akita, Shuichi; Ohyama, Tetsuo; and Kase, Toshio, 4,647,625, Cl. 528-232.000.

Ohyama, Yasuo, to Toyota Jidosha Kabushiki Kaisha. Rear view mirror assembly. 4,645,316, 2-24-87, Cl. 350-632.000.

Ohyama, Yasuo, to Toyota Jidosha Kabushiki Kaisha. Rear view mirror assembly. 4,668,059, 5-26-87, Cl. 350-632.000.

Ohyatsu, Shin; and Minami, Keisuke, to Japan Tobacco & Salt Public Corporation, The. Method and apparatus for releasing cut tobacco from cigarette. 4,651,757, 3-24-87, Cl. 131-96.000.

Ohyauchi, Hideo; Amano, Yoshiaki; and Yokoyama, Eiji, to Hitachi, Ltd. Power generator containing fuel cell. 4,693,945, 9-15-87, Cl. 429-21.000.

Ohyma, Kanji: *See*—
Komano, Tohru; and Ohyma, Kanji, 4,710,461, Cl. 435-68.000.

Ohyo Koken Kogyo Co., Ltd.: *See*—
Noda, Kimio; Ozeki, Kiyoshi; Furukawa, Hiroaki; and Watai, Katsunori, 4,695,730, Cl. 250-370.000.

Ohyoshi, Sadao: *See*—
Ushijima, Yasuhiro; Kitagawa, Tohru; Ohyoshi, Sadao; and Nishiyama, Yoshihisa, 4,674,342, Cl. 73-862.650.

Ohyu, Kiyonori: *See*—
Wada, Yasuo; Tamura, Masao; Natsuaki, Nobuyoshi; and Ohyu, Kiyonori, 4,655,875, Cl. 156-643.000.

Ohzawa, Toshio: *See*—
Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.

Ohzeki, Minoru: *See*—
Watanabe, Toshiro; Ohzeki, Minoru; and Toyama, Takashi, 4,646,143, Cl. 358-60.000.

Ohzeki, Yoshiyuki: *See*—
Nakamura Shigekazu; Kitazawa, Osamu; Nakamori, Masao; and Ohzeki, Yoshiyuki, 4,646,194, Cl. 360-137.000.

Ohzono, Kohei; Saito, Mitsuru; Hayashi, Kiyotaka; and Fujita, Tatji, to Honda Giken Kogyo Kabushiki Kaisha. Infinitely variable transmission. 4,673,379, 6-16-87, Cl. 474-28.000.

Ohzono, Kohei; Hayashi, Kiyotaka; Saito, Mitsuru; Kato, Masaie; and Yoshida, Yoshihiro, to Honda Giken Kogyo Kabushiki Kaisha. Hydraulic type starting clutch. 4,679,677, 7-14-87, Cl. 192-85.0AA.

Ohzono, Kouhei: *See*—
Hayashi, Tsutomu; and Ohzono, Kouhei, 4,669,588, Cl. 192-3.570.

OI Forest Products STS Inc.: *See*—
Snyder, Teddy R., 4,691,859, Cl. 229-23.00R.
Snyder, Teddy R., 4,693,411, Cl. 229-23.00R.
Snyder, Teddy R., 4,697,731, Cl. 229-23.00R.

Oi, Ryu: *See*—
Takenaka, Shinji; Oi, Ryu; and Shimakawa, Chitoshi, 4,684,449, Cl. 204-75.000.
Takenaka, Shinji; and Oi, Ryu, 4,694,110, Cl. 568-638.000.

Oi, Takato, to Nukada, Fumiaki. Image reading/recording apparatus. 4,635,130, 1-6-87, Cl. 358-296.000.

Oi, Takato, to Nukada, Fumiaki. Copying machine. 4,636,871, 1-13-87, Cl. 358-296.000.

Oida, Osamu; and Iwakawa, Tsunekiyo, to NEC Corporation. Display device. 4,716,341, 12-29-87, Cl. 315-169.400.

Oida, Susumu; Munemoto, Yoshikazu; Ueda, Masami; and Ito, Michiaki, to Kabushiki Kaisha Toshiba. Washing machine having rotary basket in washing tub. 4,711,105, 12-8-87, Cl. 68-23.200.

Oide, Kenichi: *See*—
Suzuki, Eiji; Nozue, Yoshihiro; and Oide, Kenichi, 4,672,631, Cl. 375-14.000.

Oide, Masahiko: *See*—
Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,681, Cl. 418-55.000.
Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,682, Cl. 418-55.000.

Inaba, Tsutomu; Sugihara, Masahiro; Nakamura, Toshiyuki; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,702,683, Cl. 418-55.000.

Nakamura, Toshiyuki; Sugihara, Masahiro; Inaba, Tsutomi; Oide, Masahiko; Kimura, Tadashi; and Kobayashi, Norihide, 4,655,697, Cl. 418-55.000.

Oie, Masayuki; Ogawa, Satoshi; Sugimoto, Sadao; Yamazaki, Masahiro; and Fujino, Katsuhiro, to Nippon Zeon Co., Ltd.; and Fujitsu Limited. Photoresist composition containing a pyrazole compound antihalation agent. 4,654,292, 3-31-87, Cl. 430-197.000.

Oikari, Timo: *See*—
Nurmi, Jarmo; Rundt, Kenneth; and Oikari, Timo, 4,687,935, Cl. 250-361.00R.

Oikari, Timo E. T.; and Rundt, Kenneth C. A., to Wallac Oy. Method for determining counting efficiency in a liquid scintillation counting system. 4,700,072, 10-13-87, Cl. 250-328.000.

Oikari, Timo E. T.: *See*—
Rundt, Kenneth C. A.; Oikari, Timo E. T.; and Kouru, Heikki K. J., 4,652,751, Cl. 250-252.100.

Oikawa, Eigo: *See*—
Arai, Yoshinao; Takahashi, Shino; Oikawa, Eigo; Sato, Shigeru; and Kobayashi, Hideaki, 4,706,187, Cl. 364-191.000.

Oikawa, Hidetoshi: *See*—
Kawakami, Michio; Araki, Yoshima; Murakami, Kenkichi; Oikawa, Hidetoshi; Nakanishi, Michio; and Hosotani, Makoto, 4,659,786, Cl. 525-415.000.

Oikawa, Saburo: *See*—
Kimura, Shin; Fukui, Hiroshi; Amano, Hisao; Yatsuo, Tsutomu; Oikawa, Saburo; and Nagano, Takahiro, 4,646,122, Cl. 357-38.000.

Terasawa, Yoshio; and Oikawa, Saburo, 4,713,679, Cl. 357-38.000.

Yatsuo, Tsutomu; Nagano, Takahiro; Oikawa, Saburo; Sato, Yukimasa; Kimura, Shin; and Fukui, Hiroshi, 4,651,18[illegible], Cl. 357-38.000.

Oikawa, Shoji; Yamagishi, Hiroshi; Saito, Shigeru; Fujita, Tsuyoshi; and Watanabe, Takayoshi, to Hitachi, Ltd. Multilayer ceramic circuit board. 4,713,494, 12-15-87, Cl. 174-68.500.

Oikawa, Tatuo; Izasa, Takao; and Okabe, Kazuo, to Toray Industries, Inc. Easily-adhesive polyester film. 4,699,845, 10-13-87, Cl. 428-480.000.

Oikawa, Tomohiro: *See*—
Ohdake, Eishu; Oikawa, Tomohiro; Shimizu, Kenichi; Seto, Takashi; Ishikawa, Masahiro; Suzuki, Shigeru; and Tagoku, Izumi, 4,640,611, Cl. 355-77.000.

Oikawa, Toshihiro: *See*—
Yano, Yoshiki; and Oikawa, Toshihiro, 4,637,358, Cl. 123-169.0PA.

Oikawa, Toshiyuki: *See*—
Yoshida, Hiroshi; Toyoshima, Takefumi; Iwabori, Tomio; Ohkura, Hideaki; Miyamoto, Yasuo; Nishimura, Izumi; Oikawa, Toshiyuki; Sekijima, Kenji; and Ohashi, Makoto, 4,709,898, Cl. 248-562.000.

Oike, Ikuo; and Hiasa, Toshikazu, to Honda Giken Kogyo Kabushiki Kaisha. Power transmission in vehicles. 4,671,375, 6-9-87, Cl. 180-227.000.

Oike Industrial Co., Ltd.: *See*—
Narui, Hiroshi; and Shinohara, Terumi, 4,687,680, Cl. 427-38.000.

Oil Patch Group, Inc.: *See*—
Perkin, Gregg S.; and Papke, Duane D., 4,709,462, Cl. 29-434.000.

Oiles Industry Co., Ltd.: *See*—
Kitta, Toshiyuki; Tada, Hiroshi; and Ishikawa, Keizo, 4,648,224, Cl. 52-223.00R.

Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Kouichi, 4,638,538, Cl. 29-149.50C.

Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Koichi, 4,660,401, Cl. 72-331.000.

Miyazaki, Kenji; Hagio, Tsuyoshi; Ogawa, Ichitaro; Yoshida, Hisayoshi; Kobayashi, Kazuo; Kashima, Kazutsugu; Tada, Takashi; Hayashi, Yoichiro; and Abe, Wataru, 4,637,884, Cl. 252-12.000.

Satoh, Eiji; Iwakura, Mararu; Kamimura, Hiroto; Nishi, Yasunori; and Kojima, Masamitsu, 4,699,530, Cl. 384-609.000.

Oilgear Company, The: *See*—
Goss, Reginald J., Jr.; and Jendrzejek, Gary S., 4,644,748, Cl. 60-395.000.

Kanies, Kerry R., 4,710,107, Cl. 417-269.000.

Oils Industry Co., Ltd.: *See*—
Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Kouichi, 4,693,107, Cl. 72-354.000.

Oimura, Katsuhiko; Misumi, Haruo; Ogawa, Hiroshi; and Nagao, Naotake, to Omron Tateisi Electronics Co. Optical bistable device. 4,675,518, 6-23-87, Cl. 250-205.000.

Oinaga, Yuji, to Fujitsu Limited. Vector data processing system for indirect address instructions. 4,665,479, 5-12-87, Cl. 364-200.000.

Oinaga, Yuji: *See*—
Kitamura, Toshiaki; and Oinaga, Yuji, 4,701,915, Cl. 371-13.000.

Oine, Toyonari: *See*—
Inoue, Ichizo; Oine, Toyonari; Yamada, Yoshihisa; Ishida, Ryuichi; and Ochiai, Takashi, 4,714,702, Cl. 514-259.000.

Oinonen, Hannu, to Oy Wartsila Ab. Arrangement for web spreading. 4,669,646, 6-2-87, Cl. 226-194.000.

Oinonen, Hannu U., to Oy Wartsila AB. Method and apparatus for reeling a web. 4,709,867, 12-1-87, Cl. 242-56.00R.

Oinoue, Hiroshi: *See*—
Nakamura, Akira; Oinoue, Hiroshi; Ishida, Tomoyuki; and Shintani, Kenji, 4,709,139, Cl. 250-201.000.

Oishi, Kanji; and Shinoda, Takashi, to Hitachi, Ltd. Semiconductor integrated circuit device. 4,680,737, 7-14-87, Cl. 365-222.000.

Oishi, Kanji: *See*—
Yoshida, Masahiro; and Oishi, Kanji, 4,656,610, Cl. 365-200.000.

Oishi, Kazuhiro: *See*—
Yamada, Masaki; Yokoi, Mitsuru; and Oishi, Kazuhiro, 4,635,792, Cl. 206-310.000.

Oishi, Kengo; and Moriwaki, Masayoshi, to Fuji Photo Film Co., Ltd. Magnetic tape cassette. 4,635,877, 1-13-87, Cl. 242-197.000.

Oishi, Kengo; and Suzuki, Osamu, to Fuji Photo Film Co., Ltd. Magnetic tape cassette having an improved braking mechanism. 4,638,393, 1-20-87, Cl. 360-132.000.

Oishi, Kengo; and Ono, Tuyoshi, to Fuji Photo Film Co., Ltd. Shutter member for a magnetic disk cartridge. 4,644,434, 2-17-87, Cl. 360-133.000.

Oishi, Kengo; and Suzuki, Osamu, to Fuji Photo Film Co., Ltd. Magnetic tape cassette. 4,669,018, 5-26-87, Cl. 360-130.210.

Oishi, Kengo; Ono, Tuyoshi; and Ueno, Wataru, to Fuji Photo Film Co., Ltd. Magnetic disk cartridge including a disk cleaner. 4,672,499, 6-9-87, Cl. 360-133.000.

Oishi, Kengo, to Fuji Photo Film Co., Ltd. Magnetic disk cartridge. 4,680,661, 7-14-87, Cl. 360-133.000.

Oishi, Kengo; and Suzuki, Osamu, to Fuji Photo Film Co., Ltd. Magnetic disk cartridge. 4,682,260, 7-21-87, Cl. 360-133.000.

Oishi, Kengo; and Ono, Tuyoshi, to Fuji Photo Film Co., Ltd. Magnetic recording disk cartridge with locking member. 4,688,127, 8-18-87, Cl. 360-132.000.

Oishi, Kengo; and Suzuki, Osamu, to Fuji Photo Film Co., Ltd. Magnetic tape cassette. 4,689,702, 8-25-87, Cl. 360-132.000.

Oishi, Kengo; and Ono, Tuyoshi, to Fuji Photo Film Co., Ltd. Counter device for a magnetic recording disk cartridge. 4,689,705, 8-25-87, Cl. 360-133.000.

Oishi, Kengo, to Fuji Photo Film Co., Ltd. Magnetic recording disk having center core secured by a base-less double-sided adhesive tape. 4,698,715, 10-6-87, Cl. 360-133.000.

Oishi, Kengo, to Fuji Photo Film Co., Ltd. Magnetic recording disk cartridge. 4,699,268, 10-13-87, Cl. 206-313.000.

Oishi, Kengo; and Moriwaki, Masayoshi, to Fuji Photo Film Co., Ltd. Magnetic tape cassette. 4,700,254, 10-13-87, Cl. 360-132.000.

Oishi, Kengo; and Suzuki, Osamu, to Fuji Photo Film Co., Ltd. Magnetic tape cassette with guard panel. 4,701,822, 10-20-87, Cl. 360-132.000.

Oishi, Kengo, to Fuji Photo Film Co., Ltd. Magnetic disk cartridge. 4,704,649, 11-3-87, Cl. 360-133.000.

Oishi, Kengo: *See*—
Komiyama, Choji; and Oishi, Kengo, 4,648,507, Cl. 206-232.000.

Komiyama, Choji; and Oishi, Kengo, 4,676,453, Cl. 242-199.000.

Komiyama, Choji; and Oishi, Kengo, 4,706,148, Cl. 360-132.000.

Ommori, Shozo; and Oishi, Kengo, 4,694,370, Cl. 360-133.000.

Oishi, Kiyohiko; Nakanishi, Kiyoshi; Kayanuma, Nobuaki; Kawai, Taiyo; Nakagawa, Norihisa; and Nomura, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. Fuel injection type internal combustion engine. 4,667,636, 5-26-87, Cl. 123-432.000.

Oishi, Konosuke: *See*—
Koga, Masataka; Kitagawa, Masatoshi; and Oishi, Konosuke, 4,645,341, Cl. 356-307.000.

Oishi, Makoto: *See*—
Katoh, Akira; Ida, Masatoshi; Shijima, Kouichi; Oishi, Makoto; Hashimoto, Akihiko; and Takahashi, Shinya, 4,641,215, Cl. 360-35.100.

Oishi, Mitsugu; and Kanai, Hidefumi, to Casio Computer Co., Ltd.; and Casio Electronics Manufacturing Co., Ltd. Apparatus for maintaining distinct edges between two colors in a two-color image forming device. 4,634,259, 1-6-87, Cl. 355-4.000.

O'Ishi, Takeo Z.: *See*—
Farina, John J.; and O'Ishi, Takeo Z., 4,704,699, Cl. 364-525.000.

Oishi, Yaichi: *See*—
Maruyama, Katsuaki; Oishi, Yaichi; Terada, Takami; and Hyodo, Motoi, 4,652,049, Cl. 297-284.000.

Oishi, Yuji, to Amada Company, Limited. Gas laser device. 4,644,549, 2-17-87, Cl. 372-38.000.

Oisi, Katumi: *See*—
Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.

Oiso, Hisayoshi: *See*—
Ishida, Kunio; Saito, Satoshi; Habuto, Akinaka; Murata, Tadahiko; Oiso, Hisayoshi; Joyama, Norio; and Fujimoto, Kazuhiro, 4,655,125, Cl. 99-355.000.

Oita, Masahiro, to Matsushita Electric Industrial Co., Ltd. Dissolved gas and ion measuring electrode system. 4,701,252, 10-20-87, Cl. 204-402.000.

Oiyama, Kiyokazu: *See*—
Ninomiya, Yoshinobu; Somezawa, Masashi; and Oiyama, Kiyokazu, 4,634,633, Cl. 428-425.900.

Ninomiya, Yoshinobu; Somezawa, Masashi; and Oiyama, Kiyokazu, 4,637,959, Cl. 428-425.900.

Oizumi, Kiyoshi: *See*—
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, 4,653,163, Cl. 29-157.30R.

Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; and Oizumi, Kiyoshi 4,690,211, Cl. 165-177.000.

Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizumi, Kiyoshi; Kakizaki, Kimio; Nakayama, Wataru; Daikoku, Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshihiko, 4,678,029, Cl. 165-133.000.

Shinohara, Yoshihiro; Oizumi, Kiyoshi; Itoh, Yasuhiko; and Hori, Makoto, 4,658,892, Cl. 165-133.000.

Takahashi, Kenji; Kuwahara, Heikichi; Yanagida, Takehiko; Nakayama, Wataru; Oizumi, Kiyoshi; and Sugimoto, Shigeo, 4,715,436, Cl. 165-133.000.

Oizumi, Kouji; Sato, Yasuhisa; Yamada, Yasuyuki; and Nakayama, Hiroki, to Canon Kabushiki Kaisha. Compact zoom lens with short back focal distance. 4,652,091, 3-24-87, Cl. 350-427.000.

Oizumi, Kouji: *See*—
Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Oizumi, Kouji, 4,697,882, Cl. 350-287.000.
Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Oizumi, Kouji, 4,643,536, Cl. 350-422.000.
Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Oizumi, Kouji, 4,702,581, Cl. 354-126.000.

Oizumu, Kouji: *See*—
Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Oizumu, Kouji, 4,679,913, Cl. 350-423.000.

Oj. Ray V. Pump attachment for outboard motors. 4,699,597, 10-13-87, Cl. 440-66.000.

Ojala, William: *See*—
Robinson, Donald L., and Ojala, William, 4,712,870, Cl. 350-243.000.

Ojha, Suresh M.: *See*—
Heinecke, Rudolf A. H.; Ojha, Suresh M.; and Llewellyn, Ian P., 4,684,535, Cl. 427-38.000.

Oji Corn Starch Co., Ltd.: *See*—
Yamane, Kunio; Ohmura, Kazutaka; Yamazaki, Hisato; and Shiroza, Teruaki, 4,690,898, Cl. 435-320.000.

Oji, Nobuaki: *See*—
Takahashi, Fumitaka; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, 4,672,214, Cl. 250-551.000.
Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, 4,674,828, Cl. 350-96.130.

Oji Seishi Kabushiki Kaisha: *See*—
Ota, Toyokazu; Nakamura, Yutaka; Ikeda, Yutaka; Kataoka, Shunzi; and Ito, Yoshinobu, 4,639,291, Cl. 162-207.000.
Ota, Toyokazu; and Nakamura, Yutaka, 4,639,292, Cl. 162-375.000.

Oji Yuka Goseishi Co., Ltd.: *See*—
Nitta, Katsukuni, 4,667,984, Cl. 282-8.00R.
Toyoda, Takashi; Akimoto, Akira; Yamanaka, Masaaki; and Kobayasi, Yonetarou, 4,663,216, Cl. 428-212.000.
Yamanaka, Masaaki; Inoue, Masayuki; and Asazuma, Harumitsu, 4,705,719, Cl. 428-323.000.

Ojima, Juji; and Kitamura, Yosiharu, to NHK Spring Co. Limited. Television stand having a tilt mechanism. 4,643,382, 2-17-87, Cl. 248-371.000.

Ojima, Juji; and Hino, Isao, to NHK Spring Co., Ltd. Tension providing device. 4,702,726, 10-27-87, Cl. 474-101.000.

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Ojima, Kumiko; Naruse, Tsunehide; and Matsumoto, Yukio, to Victor Company of Japan, Ltd. Magnetic recording medium comprising a specific type of lubricant. 4,645,724, 2-24-87, Cl. 428-695.000.

Ojima, Masahiro; Saito, Atsushi; and Kato, Tsuyoshi, to Hitachi, Ltd. Optical head with improved extinction ratio for magneto-optical memory. 4,672,593, 6-9-87, Cl. 369-13.000.

Ojima, Masahiro: *See*—
Kato, Tsuyoshi; Ojima, Masahiro; and Niihara, Toshio, 4,672,594, Cl. 369-13.000.
Ohnuki, Nobutaka; Ojima, Masahiro; Arimoto, Akira; and Chinone, Naoki, 4,712,218, Cl. 372-38.000.
Saito, Atsushi; Ojima, Masahiro; Maeda, Takeshi; and Kato, Tsuyoshi, 4,712,203, Cl. 369-13.000.

Ojio, Kuniji: *See*—
Taniguchi, Akira; Ojio, Kuniji; Yamamoto, Tatsuya; and Sana, Toshikazu, 4,708,761, Cl. 156-516.000.

Oka, Akihiro: *See*—
Hoque, Zahirul; and Oka, Akihiro, 4,685,141, Cl. 382-7.000.

Oka, Hideo: *See*—
Tada, Yukio; Umeno, Hiroshi; Sugimoto, Yasuhiro; and Oka, Hideo, 4,692,123, Cl. 440-77.000.

Oka, Hiroyuki: Akasaka, Shinichi; Ohara, Shuichi; Hattori, Shintaroo; Mori, Yasuki; Narahara, Toshikazu; and Matsumoto, Hiroshi, to Hitachi, Ltd.; and Nitto Electric Industrial Co., Ltd. Thermal transfer sheet. 4,690,858, 9-1-87, Cl. 428-216.000.

Oka, Hiroyuki: *See*—
Nomura, Yoshihisa; Oka, Hiroyuki; and Otsuki, Hiromi, 4,640,558, Cl. 303-119.000.
Otsuki, Hiromi; Matsuura, Ryoichi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,685,749, Cl. 303-116.000.
Otsuki, Hiromi; Numata, Kenichi; Matsuura, Ryoichi; Nomura, Yoshihisa; Nakanishi, Nobuyasu; and Oka, Hiroyuki, 4,715,667, Cl. 303-119.000.
Tsuru, Naohiko; Matsuura, Ryoichi; Otsuki, Hiromi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,636,009, Cl. 303-93.000.

Oka, Joji: *See*—
Shindou, Yoshio; Oka, Joji; Taira, Taketoshi; Miyauchi, Yujiro; and Yamazaki, Fumio, 4,705,726, Cl. 428-562.000.

Oka, Kazuyoshi; Katayama, Mitsuhiro; Kohno, Toshihiko; Engstrom, Ulf; and Larssen, Svenn-Erik, to Kanto Denka Kogyo Co., Ltd.; and Hoganas AB. Carrier for use in electrophotographic developers. 4,663,262, 5-5-87, Cl. 430-108.000.

Oka, Koichi: *See*—
Ishii, Junichi; and Oka, Koichi, 4,664,723, Cl. 148-301.000.
Nate, Tatsuo; Oka, Koichi; and Sato, Takehiko, 4,689,073, Cl. 75-0.5BA.

Oka, Kozo: *See*—
Yoshino, Masaki; Oka, Kozo; and Koide, Fuminori, 4,634,257, Cl. 355-3.0CH.

Oka, Masahiko; and Morita, Shigeru, to Daikin Industries Ltd. Fluorine-containing diacylperoxides and use thereof. 4,654,444, 3-31-87, Cl. 568-560.000.

Oka, Masahiko; and Morita, Shigeru, to Daikin Industries Ltd. Fluorine-containing diacylperoxides and use thereof. 4,663,407, 5-5-87, Cl. 526-209.000.

Oka, Masahiko; Ueta, Yutaka; Kano, Hideo; Tomoda, Masayasu; and Kawachi, Shoji, to Daikin Industries, Ltd. Fluorine-containing elastomeric copolymer. 4,696,989, 9-29-87, Cl. 526-254.000.

Oka, Masahiko: *See*—
Kawachi, Shoji; Tomoda, Masayasu; Ueta, Yutaka; and Oka, Masahiko, 4,670,328, Cl. 428-260.000.

Oka, Masahisa: *See*—
Konishi, Masataka; Tomita, Koji; Oka, Masahisa; and Numata, Ken-ichi, 4,692,510, Cl. 530-317.000.

Oka, Masataka; Furukawa, Masami; Kojima, Shinji; and Amatsu, Takeo, to Nippon Petrochemicals Company, Limited. Polyolefine compositions comprising (a) mica and (b) a ethylene-acrylic acid polymeric coupling agent. 4,650,818, 3-17-87, Cl. 523-205.000.

Oka, Nobuharu: *See*—
Murasawa, Sadao; Murakami, Hajime; and Oka, Nobuharu, 4,663,257, Cl. 430-45.000.

Oka, Seiji; and Morita, Yoshiharu, to Ricoh Company, Ltd. Toner cartridge. 4,650,070, 3-17-87, Cl. 206-216.000.

Oka, Shunzo; and Matsui, Futoshi, to Matsushita Electric Industrial Co., Ltd. Rotary encoder. 4,652,947, 3-24-87, Cl. 360-85.000.

Oka, Syotaro; Tahara, Shu; and Kobayashi, Junya, to Shimadzu Corporation. Moisture sensor. 4,696,796, 9-29-87, Cl. 422-88.000.

Oka, Takafumi: *See*—
Fukuda, Yasushi; Oka, Takafumi; and Tanaka, Kazuo, 4,698,810, Cl. 371-38.000.
Ogata, Mikito; Mori, Masahito; Doi, Takashi; Miyazaki, Michio; and Oka, Takafumi, 4,638,472, Cl. 369-54.000.

Oka, Takao: *See*—
Kasai, Minoru; Oka, Takao; Takamagari, Munenori; Shibata, Chiyoji; and Nakamura, Minoru, 4,682,385, Cl. 17-45.000.

Oka, Takashi: *See*—
Inoue, Hideaki; Katayose, Shinji; Takei, Akira; and Oka, Takashi, 4,660,520, Cl. 123-399.000.

Oka, Tateki, to Minolta Camera Kabushiki Kaisha. Method of forming composite or dichromatic images. 4,640,883, 2-3-87, Cl. 430-122.000.

Oka, Tateki, to Minolta Camera Kabushiki Kaisha. Copying apparatus. 4,659,211, 4-21-87, Cl. 355-14.00D.

Oka, Tetsuo: *See*—
Itoh, Seiga; Nishi, Tatsunari; Mizukami, Tamio; Matsumoto, Tadashi; Oka, Tetsuo; Taniguchi, Tadatsugu; and Sugano, Haruo, 4,686,191, Cl. 435-320.000.
Katsumata, Ryoichi; Oka, Tetsuo; and Furuya, Akira, 4,681,847, Cl. 435-172.300.
Katsumata, Ryoichi; Ozaki, Akio; Oka, Tetsuo; and Furuya, Akira, 4,683,205, Cl. 435-172.300.
Katsumata, Ryoichi; Ozaki, Akio; Oka, Tetsuo; and Furuya, Akira, 4,710,471, Cl. 435-253.000.
Masumoto, Tsuyoshi; Inoue, Akihisa; Oka, Tetsuo; Ishii, Masami; Motoyama, Hiroshi; and Yabuno, Ryohei, 4,655,079, Cl. 73-295.000.

Oka, Totaro: *See*—
Kodama, Masashi; Tani, Toru; Hanazawa, Kazuyoshi; Oka, Totaro; Teramoto, Kazuo; and Nishiumi, Shiro, 4,661,260, Cl. 210-679.000.

Oka, Tsumoru, to Alps Electric Co., Ltd. Potentiometer. 4,652,850, 3-24-87, Cl. 338-160.000.

Oka, Tsumoru; and Tamagawa, Hiroshi, to Alps Electric Co., Ltd. Automatic signal cancelling apparatus for a direction indicator on motorcycle or the like vehicle. 4,658,236, 4-14-87, Cl. 340-56.000.

Oka, Tsutomu: *See*—
Mae, Yoshiharu; and Oka, Tsutomu, 4,681,627, Cl. 75-10.190.

Oka, Yasuo. Fastening structure of tube and car assembly. 4,678,098, 7-7-87, Cl. 220-289.000.

Oka, Yoshihiko: *See*—
Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.

Oka, Yoshiro: *See*—
Yamazaki, Masahiro; Iizuka, Shigeru; Kamiya, Shigemitsu; Oka, Yoshiro; and Fujino, Katsuhiro, 4,676,404, Cl. 222-56.000.

Oka, Yosio, to Honda Giken Kogyo Kabushiki Kaisha. Power transmission apparatus for vehicles. 4,693,333, 9-15-87, Cl. 180-233.000.

Oka, Yukihiko; and Morimoto, Toyohiko, to Sharp Kabushiki Kaisha. Paper feed control in a printer. 4,696,592, 9-29-87, Cl. 400-636.000.

Okabayashi, Masanori: *See*—
Kojima, Koichi; Jujo, Akihiro; Okabayashi, Masanori; Shimatani, Ryoichi; Toyama, Kenji; and Kanzaki, Nobuyoshi, 4,681,672, Cl. 204-129.400.

Okabayashi, Michio: *See—*
Chance, Morrell S.; Jardin, Stephen C.; Stix, Thomas H.; Grimm, Ray C., deceased; Manickam, Janardhan; and Okabayashi, Michio, 4,654,184, Cl. 376-133.000.

Okabayashi, Tadashi: *See—*
Kono, Masao; Komeno, Taichitro; Ishihara, Shoichi; Yamauchi, Akira; and Okabayashi, Tadashi, 4,686,179, Cl. 435-7.000.

Okabe Co., Ltd.: *See—*
Era, Yoshiyuki; and Kumagai, Yasuo, 4,695,178, Cl. 403-14.000.

Okabe, Hirobumi: *See—*
Tsuji, Eiji; Okabe, Hirobumi; Ike, Hideo; Uratani, Fumihiro; Ota, Takashi; Kaneda, Hiroshi; Hanatate, Yuko; Hamada, Tadashi; and Oonishi, Hironobu, 4,668,585, Cl. 428-469.000.

Okabe, Junji: *See—*
Kido, Hitoshi; Igarashi, Yoshinobu; and Okabe, Junji, 4,660,389, Cl. 62-298.000.

Okabe, Kazuhiko: *See—*
Kubo, Makoto; Sotoya, Koshiro; and Okabe, Kazuhiko, 4,709,045, Cl. 548-352.000.
Sotoya, Koshiro; Kubo, Makoto; and Okabe, Kazuhiko, 4,705,893, Cl. 562-564.000.

Okabe, Kazuo: *See—*
Hagiwara, Satoru; Satoh, Kimio; and Okabe, Kazuo, 4,683,093, Cl. 264-22.000.
Nishino, Hiroshi; and Okabe, Kazuo, 4,714,569, Cl. 252-511.000.
Oikawa, Tatuo; Izasa, Takao; and Okabe, Kazuo, 4,699,845, Cl. 428-480.000.
Yoshii, Toshiya; and Okabe, Kazuo, 4,708,905, Cl. 428-216.000.

Okabe, Masao: *See—*
Sugio, Akitoshi; Okabe, Masao; and Kobayashi, Toshihiko, 4,663,376, Cl. 524-195.000.
Sugio, Akitoshi; Okabe, Masao; and Amagai, Akikazu, 4,683,255, Cl. 524-151.000.
Sugio, Akitoshi; Okabe, Masao; Mizukami, Masamichi; and Sekine, Yoshihiko, 4,686,131, Cl. 428-158.000.

Okabe, Minoru: *See—*
Nishioka, Kimihiko; Takahashi, Susumu; Yokota, Akira; and Okabe, Minoru, 4,674,844, Cl. 350-469.000.

Okabe, Mitsuo: *See—*
Koike, Kiichi; Suzuki, Yoshie; Yoshinaka, Minoru; Okabe, Mitsuo; and Tanaka, Makoto, 4,664,994, Cl. 429-163.000.

Okabe, Naoto: *See—*
Fukazawa, Takeshi; Kuno, Hironari; Okabe, Naoto; and Hara, Kunihiko, 4,653,443, Cl. 123-145.00A.

Okabe, Nobuya; Hirata, Toichi; Yoshida, Kuniaki; Sugiyama, Genroku; Haga, Masakazu; Tanaka, Hideaki; and Taisumi, Akira, to Hitachi Construction Machinery Co., Ltd. Control system for hydraulically-operated construction machinery. 4,697,418, 10-6-87, Cl. 60-434.000.

Okabe, Ryuichiro; and Yanagi, Yoshitaka, to Ajinomoto General Foods, Inc. Drip drink maker. 4,697,503, 10-6-87, Cl. 99-306.000.

Okabe, Shigeru: *See—*
Akiyama, Hiroyuki; Izawa, Susumu; Okabe, Shigeru; and Yamaguchi, Toru, 4,716,021, Cl. 422-135.000.

Okabe, Sigeru: *See—*
Okada, Hideo; Takeuchi, Masato; Okabe, Sigeru; Tobita, Hiroshi; Matsuda, Shimpei; Tamura, Kohki; and Nakajima, Fumito, 4,656,735, Cl. 29-623.100.
Okada, Hideo; Okabe, Sigeru; Iwase, Yoshio; Takeuchi, Masato; and Tamura, Kohki, 4,699,853, Cl. 429-37.000.

Okabe, Takahiro; Hayashi, Makoto; Morisuye, Katuhiro; Watanabe, Tomoyuki; Washio, Katsuyoshi; Ogura, Setsuo; Furihata, Makoto; and Kondo, Shizuo, to Hitachi Microcomputer Engineering, Ltd.; and Hitachi, Ltd. Bipolar logic circuit having two multi-emitter transistors with an emitter of one connected to the collector of the other to prevent saturation. 4,697,102, 9-29-87, Cl. 307-454.000.

Okabe, Takahiro, to Nippondenso Co., Ltd. Apparatus for measuring angular velocity. 4,699,005, 10-13-87, Cl. 73-505.000.

Okabe, Takahiro: *See—*
Washio, Katsuyoshi; Hayashi, Makoto; Watanabe, Tomoyuki; Okabe, Takahiro; and Norisuye, Katuhiro, 4,694,321, Cl. 357-48.000.

Okabe, Takao: *See—*
Goto, Makoto; Okabe, Takao; and Komori, Akihiro, 4,703,144, Cl. 219-69.00P.

Okabe, Takeaki: *See—*
Yoshida, Isao; Okabe, Takeaki; Ito, Mitsuo; Ashikawa, Kazutoshi; and Iijima, Tetsuo, 4,688,323, Cl. 437-29.000.

Okabe, Toshihiro: *See—*
Ikeda, Koichi; Nakamura, Kozi; and Okabe, Toshihiro, 4,695,947, Cl. 364-200.000.

Okabe, Yoichi: *See—*
Sugano, Takuo; Okabe, Yoichi; Miyake, Hideharu; and Fukaya, Naoki, 4,678,945, Cl. 307-476.000.

Okabe, Yoshiaki: *See—*
Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.

Okabe, Yoshio; and Furudate, Masato, to Dengensha Manufacturing Company Limited. Control method of resistance welding. 4,634,828, 1-6-87, Cl. 219-117.100.

Okabe, Yoshio; and Furudate, Masato, to Dengensha Manufacturing Company Limited. Control method of spot welding. 4,634,829, 1-6-87, Cl. 219-117.100.

Okabe, Yoshio, to Aisin Seiki Kabushiki Kaisha. Self-contained tensioning device for a belt or similar structure. 4,657,524, 4-14-87, Cl. 474-110.000.

Okabe, Yoshio; and Shirai, Eiji, to Aisin Seiki Kabushiki Kaisha. Self-contained hydraulic valve lifter. 4,662,325, 5-5-87, Cl. 123-90.580.

Okabe, Yoshio: *See—*
Kodama, Hisashi; and Okabe, Yoshio, 4,695,268, Cl. 474-110.000.
Kodama, Hisashi; and Okabe, Yoshio, 4,713,045, Cl. 474-135.000.

Okachi, Ryo: *See—*
Mochida, Kenichi; Ogasa, Takehiro; Shimada, Junichi; Hirata, Tadashi; Sato, Kiyoshi; and Okachi, Ryo, 4,640,919, Cl. 514-241.000.
Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji; Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.

Okada, Akira: *See—*
Takagi, Tsuneo; Tanabe, Kenjiro; Fukushima, Masao; Kyushima, Hiroki; Takenaka, Kiyoshi; Okada, Akira; and Isogaki, Yoshinor, 4,641,951, Cl. 355-7.000.

Okada, Chiharu: *See—*
Aono, Koji; Saito, Toshinori; and Okada, Chiharu, 4,639,361, Cl. 423-347.000.
Kawakami, Toshio; Mori, Masaaki; and Okada, Chiharu, 4,688,051, Cl. 346-76.0PH.
Mori, Masaaki; and Okada, Chiharu, 4,684,959, Cl. 346-76.0PH.

Okada, Daisuke; Uchida, Akihisa; Takakura, Toshihiko; Nakashima, Shinji; Ohno, Nobuhiko; and Ogiue, Katsumi, to Hitachi, Ltd.; and Hitachi Microcomputer Engineering, Ltd. Method of forming trench isolation in an integrated circuit. 4,700,464, 10-20-87, Cl. 437-67.000.

Okada, Fujio; and Ohta, Toshihiko, to Toyo Boseki Kabushiki Kaisha. Process for the production of a drawn product of crystalline polymer having high tenacity and high modulus. 4,643,865, 2-17-87, Cl. 264-288.400.

Okada, Fujio: *See—*
Kaneko, Kouji; Horio, Motohiko; Kobayashi, Naoki; and Okada, Fujio, 4,669,841, Cl. 352-216.000.
Ohta, Toshihiko; and Okada, Fujio, 4,668,577, Cl. 428-364.000.

Okada, Fumio; Oba, Toshio; and Nakazato, Morizo, to Shin-Etsu Chemical Co., Ltd.; and Bridgestone Tire Co., Ltd. Method for providing anti-weathering resistance to the surface of orgamc materials. 4,670,309, 6-2-87, Cl. 427-387.000.

Okada, Fumio; Tanaka, Masaki; and Ohashi, Hiroshi, to Shin-Etsu Chemical Co., Ltd. Silicone-based textile finishing agent. 4,677,178, 6-30-87, Cl. 528-34.000.

Okada, Fumio: *See—*
Itoh, Kunio; Kozakai, Shohei; Hida, Yoshinori; Okinoshima, Hiroshige; Okada, Fumio; Oba, Toshio; Shimizu, Hisashi; Hinoto, Yuji; and Yoshioka, Hiroshi, 4,678,688, Cl. 427-387.000.
Itoh, Kunio; Okada, Fumio; Yamamoto, Yasushi; and Aoki, Hisashi, 4,707,503, Cl. 522-99.000.
Sasaki, Isao; Yanagase, Akira; Kawachi, Yasunori; Mayuzumi, Tetsuya; Oba, Toshio; and Okada, Fumio, 4,690,986, Cl. 525-479.000.
Terae, Nobuyuki; Yamaya, Masaaki; and Okada, Fumio, 4,690,713, Cl. 106-287.160.

Okada, Hideaki; and Irikura, Koji, to Kanzaki Kokyukoki Mfg. Co., Ltd. Key-shift transmission. 4,702,120, 10-27-87, Cl. 74-371.000.

Okada, Hideaki: *See—*
Yamaoka, Kojiro; and Okada, Hideaki, 4,673,055, Cl. 180-336.000.

Okada, Hidekazu, to Clover Mgf. Co., Ltd. Knitting needle with a flexible cord. 4,646,543, 3-3-87, Cl. 66-117.000.

Okada, Hideki: *See—*
Kuboniwa, Shigeo; Okada, Hideki; and Tamura, Michio, 4,689,520, Cl. 313-468.000.

Okada, Hideo; Takeuchi, Masato; Okabe, Sigeru; Tobita, Hiroshi; Matsuda, Shimpei; Tamura, Kohki; and Nakajima, Fumito, to Hitachi, Ltd. Process for producing an electrolyte retaining matrix of electrical insulating long fibers. 4,656,735, 4-14-87, Cl. 29-623.100.

Okada, Hideo; Okabe, Sigeru; Iwase, Yoshio; Takeuchi, Masato; and Tamura, Kohki, to Hitachi, Ltd. Fuel cell. 4,699,853, 10-13-87, Cl. 429-37.000.

Okada, Hideo: *See—*
Bahn, Itsuki; and Okada, Hideo, 4,710,683, Cl. 318-254.000.

Okada, Hideya: *See—*
Maeda, Shigeyoshi; Yamamoto, Masahiro; Omata, Hiroyasu; and Okada, Hideya, 4,692,191, Cl. 148-6.14R.

Okada, Hiroaki; Ogawa, Yasuaki; and Yashiki, Takatsuka, to Takeda Chemical Industries, Ltd. Prolonged release microcapsule and its production. 4,652,441, 3-24-87, Cl. 424-19.000.

Okada, Hiroaki; Ogawa, Yasuaki; and Yashiki, Takatsuka, to Takeda Chemical Industries, Ltd. Prolonged release microcapsules and their production. 4,711,782, 12-8-87, Cl. 424-455.000.

Okada, Hiroaki: *See—*
Hirai, Shin-ichiro; Okada, Hiroaki; and Yashiki, Takatsuka, 4,659,696, Cl. 514-15.000.

Okada, Hiroichi: *See—*
Matsui, Shigetomo; Nakayama, Shigeru; Okada, Hiroichi; and Sakurai, Takashi, 4,672,163, Cl. 219-74.000.

Okada, Hiromi; Nakanishi, Yoshiro; and Nomura, Yoshifumi, to Ricoh Company, Ltd. Multiaccess communications system. 4,646,293, 2-24-87, Cl. 370-85.000.

Okada, Hiroo, to Olympus Optical C[illegible]td. Head feed control apparatus. 4,706,234, 11-10-87, Cl. 369-41.000.

Okada, Hiroo: *See—*
Ohshima, Ken; Okada, Hiroo; and Sakamoto, Masaharu, 4,644,514, Cl. 369-32.000.

Okada, Hiroshi; Tsujiuchi, Toshio; and Ogasawara, Tadashi, to Toyoda Koki Kabushiki Kaisha. Numerical control machine tool with manual feed handle. 4,706,415, 11-17-87, Cl. 51-165.00R.

Okada, Hiroshi; Takahashi, Takao; and Inoue, Hajime, to Sony Corporation. Tape recording apparatus. 4,716,476, 12-29-87, Cl. 360-66.000.

Okada, Hiroshi: *See—*
Haga, Takahiro; Toki, Tadaaki; Koyanagi, Toru; Okada, Hiroshi; Yoshida, Kiyomitsu; and Imai, Osamu, 4,645,761, Cl. 514-94.000.
Haga, Takahiro; Yamada, Nobutoshi; Sugi, Hideo; Koyanagi, Toru; and Okada, Hiroshi, 4,677,110, Cl. 514-274.000.
Haga, Takahiro; Yamada, Nobutoshi; Sugi, Hideo; Koyanagi, Toru; and Okada, Hiroshi, 4,677,111, Cl. 514-274.000.
Numaho, Yoshio; Kato, Yoshio; Ogawa, Tetsuro; Okada, Hiroshi; and Arima, Kiyoshi, 4,663,630, Cl. 342-176.000.
Taki, Masaru; Okada, Hiroshi; Kawamura, Seijiro; Kusumoto, Akio; Morita, Koji; Ikenaga, Takao; Shigematsu, Toshifumi; and Iida, Masami, 4,692,951, Cl. 4-664.000.
Yasuhara, Seishi; Hagiwara, Mitsuo; Inoue, Kazuo; Fujimori, Kyoichi; Sekiguchi, Akira; and Okada, Hiroshi, 4,638,782, Cl. 123-502.000.

Okada, Hisao: *See—*
Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakami, Kanji; Okada, Hisao; Sasaki, Soji; Inose, Shigeru; Suto, Mareo; and Uzuhashi, Hideo, 4,665,282, Cl. 178-18.000.

Okada, Hisashi: *See—*
Kubodera, Seiiti; Ukai, Toshinao; and Okada, Hisashi, 4,713,316, Cl. 430-351.000.

Okada, Ikuo; Saitoh, Yasunao; Yoshihara, Hideo; and Nakayama, Satoshi, to Nippon Telegraph & Telephone Public Corporation. X-ray source and X-ray lithography method. 4,635,282, 1-6-87, Cl. 378-34.000.

Okada, Isamu: *See—*
Nakayama, Toshiaki; Kohama, Tokio; Okada, Isamu; and Yokoyama, Tamio, 4,702,940, Cl. 427-244.000.

Okada, Jun; Kunimasa, Koichi; and Nakase, Hiroshi, to Hitachi, Ltd. Packet exchange data transmission system. 4,638,477, 1-20-87, Cl. 370-94.000.

Okada, Katsuro: *See—*
Koyama, Masahiro; Kinoshita, Kengi; Matsuo, Hiroshi; and Okada, Katsuro, 4,667,584, Cl. 99-280.000.

Okada, Kazuichi: *See—*
Miyagawa, Junichi; Kamo, Tetuo; and Okada, Kazuichi, 4,665,893, Cl. 126-299.00D.

Okada, Kazuo, to Kabushiki Kaisha Universal. Video game apparatus with automatically adjusting timing window. 4,657,247, 4-14-87, Cl. 273-1.00E.

Okada, Kazuo, to Kabushiki Kaisha Universal. Slot machine with win/loss biasing means. 4,657,256, 4-14-87, Cl. 273-143.00R.

Okada, Kazuo, to Kabushiki Kaisha Universal. Video game apparatus with automatic skill level adjustment. 4,679,789, 7-14-87, Cl. 273-1.00E.

Okada, Kazuo, to Kabushiki Kaisha Universal. Stepping motor. 4,687,981, 8-18-87, Cl. 318-696.000.

Okada, Kazuo, and Nakayama, Yoshiaki, to Fuji Photo Film Co., Ltd. Rotary magnetic recording-reproducing apparatus. 4,691,252, 9-1-87, Cl. 360-75.000.

Okada, Kazuo, to Kabushiki Kaisha Universal. Slot machine with playing card symbols. 4,700,948, 10-20-87, Cl. 273-143.00R.

Okada, Kazuo, to Kabushiki Kaisha Universal. Slot machine. 4,715,604, 12-29-87, Cl. 273-143.00R.

Okada, Kazuo: *See—*
Hirakawa, Norishige; Okada, Kazuo; and Sato, Kazuhiko, 4,684,333, Cl. 417-420.000.
Uekado, Kazutaka; and Okada, Kazuo, 4,668,555, Cl. 428-69.000.

Okada, Kazuyoshi: *See—*
Suzuki, Tadashi; Okada, Kazuyoshi; and Abe, Noriyuki, 4,712,211, Cl. 370-100.000.

Okada, Keisuke; and Nakaya, Masao, to Mitsubishi Denki Kabushiki Kaisha. Capacitive elements with reduced stray capacitance. 4,658,690, 3-31-87, Cl. 357-51.000.

Okada, Kenichi; Asao, Hiroshi; and Yonemura, Hideo, to Hitachi, Ltd. T-joint manufacturing apparatus. 4,676,088, 6-30-87, Cl. 72-342.000.

Okada, Kenji, to Babcock-Hitachi Kabushiki Kaisha. Apparatus for handling large fasteners of a pressure vessel. 4,675,967, 6-30-87, Cl. 29-240.000.

Okada, Kikujiro: *See—*
Takabayashi, Kuniaki; Takaoka, Yoshitsugu; Hori, Kouichi; Shimotakahara, Masaki; Okada, Kikujiro; and Shiino, Satoru, 4,710,161, Cl. 494-84.000.

Okada, Koichi, to NEC Corporation. Method of X-ray lithography. 4,702,995, 10-27-87, Cl. 430-311.000.

Okada, Koichi: *See—*
Nakazeki, Tsugito; Nanami, Shoji; and Okada, Koichi, 4,686,404, Cl. 310-90.500.

Okada, Kotaro: *See—*
Nishihama, Takamichi; Okada, Kotaro; and Kadota, Shigekazu, 4,695,044, Cl. 269-21.000.

Okada, Kozo; Masuda, Michiyuki; and Ueha, Sadayuki, to NGK Spark Plug Co., Ltd. Piezoelectric rotary driver. 4,634,916, 1-6-87, Cl. 310-323.000.

Okada, Kunio, to Canon Kabushiki Kaisha. Printer having control means for stopping the printing operation thereof and inhibiting data output from memory. 4,673,990, 6-16-87, Cl. 358-296.000.

Okada, Masafumi: *See—*
Ibata, Koichi; Takigawa, Tetsuo; Okada, Masafumi; Mizuno, Masao; and Nisnida, Takashi, 4,668,820, Cl. 560-248.000.

Okada, Masahiko: *See—*
Hall, Henry K., Jr.; Sumitomo, Hiroshi; and Okada, Masahiko, 4,677,190, Cl. 528-354.000.

Okada, Masahisa: *See—*
Blomback, Birger; and Okada, Masahisa, 4,640,778, Cl. 210-484.000.

Okada, Masakazu: *See—*
Tomizawa, Hiroshi; Okada, Masakazu; Yasumoto, Seiichi; Mizokawa, Sadao; Fushimi, Hitoshi; Onuki, Ken; Takahashi, Masahiro; and Hamada, Takuji, 4,704,714, Cl. 370-15.000.

Okada, Masami: *See—*
Suzuki, Mitsutoshi; Morita, Yoshitaka; Okada, Masami; and Shimohara, Jun, 4,710,297, Cl. 210-493.200.

Okada, Masanori: *See—*
Kato, Shogo; Takase, Jun; Okada, Masanori; and Kuramochi, Kouziro, 4,653,346, Cl. 74-701.000.

Okada, Masao, to Tesco, Inc. Three-way ball valve. 4,651,775, 3-24-87, Cl. 137-625.410.

Okada, Mikiro: *See—*
Hirano, Takaaki; Kamuro, Setsufumi; Yamaguchi, Akira; Tanimoto, Junichi; and Okada, Mikiro, 4,694,393, Cl. 364-200.000.
Kamuro, Setsufumi; and Okada, Mikiro, 4,709,168, Cl. 307-448.000.

Okada, Minoru, to Olympus Optical Co., Ltd. Adaptor for measuring length optically for endoscope. 4,660,982, 4-28-87, Cl. 356-383.000.

Okada, Minoru, to Osaka Taiyu Co., Ltd. Fluid motor with rotary output. 4,704,946, 11-10-87, Cl. 91-7.000.

Okada, Minoru: *See—*
Kojima, Tadao; Kageyama, Shunji; Okada, Minoru; Ohata, Isao; and Sato, Noboru, 4,690,932, Cl. 514-337.000.

Okada, Mitsuhiko; Itoh, Hiroshi; Kato, Nobuyuki; and Takada, Mitsuru, to Toyota Jidosha Kabushiki Kaisha. Apparatus for controlling line pressure used in V-belt type continuously variable transmission for automobile. 4,669,336, 6-2-87, Cl. 74-867.000.

Okada, Mitsuhiko; and Ito, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. Hydraulic fluid pressure control device for a continuously variable automobile transmission providing a quick speed change ratio increase. 4,682,519, 7-28-87, Cl. 74-868.000.

Okada, Mitsuo: *See—*
Buma, Mitsuo; Yuda, Sadayuki; Sato, Masatsune; and Okada, Mitsuo, 4,689,079, Cl. 106-35.000.

Okada, Munehisa: *See—*
Matsuura, Junichi; and Okada, Munehisa, 4,714,481, Cl. 55-158.000.

Okada, Noboru; and Tanaka, Toshio, to Yokohama Rubber Co., Ltd., The. Apparatus for arraying and conveying web-like material. 4,666,030, 5-19-87, Cl. 198-431.000.

Okada, Nobuhide: *See—*
Yamamoto, Tsuyoshi; Okada, Nobuhide; and Kawamura, Yasuo, 4,703,393, Cl. 361-405.000.

Okada, Osami: *See—*
Tokiguchi, Katsumi; Koike, Hidemi; Sakudo, Noriyuki; Okada, Osami; Ninomiya, Ken; and Ozasa, Susumu, 4,658,143, Cl. 250-423.00R.

Okada, Reisuke; and Fujino, Hisami, to Toray Industries, Inc. Method for producing laminate board containing uniformly distributed filler particles. 4,661,301, 4-28-87, Cl. 264-41.000.

Okada, Satoshi: *See—*
Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.

Okada, Shigeru, to Diesel Kiki Co., Ltd. Circuit for driving solenoid clutch. 4,650,052, 3-17-87, Cl. 192-84.00C.

Okada, Shigeru; and Rokuta, Katsutoshi, to Nippon Kodoshi Corporation. Water content sensing and informing system for a disposable diaper. 4,653,491, 3-31-87, Cl. 128-138.00A.

Okada, Shigeru; and Rokuta, Katsutoshi, to Nippon Kodoshi Corporation. Water content sensing and informing system for a disposable diaper. 4,704,108, 11-3-87, Cl. 604-361.000.

Okada, Shigeto: *See—*
Sakurai, Yoji; Hirai, Toshiro; Okada, Shigeto; Okada, Takeshi; Yamaki, Jun-ichi; and Ohtsuka, Hideaki, 4,675,260, Cl. 429-191.000.

Okada, Shinjiro; Katagiri, Kazuharu; and Kanbe, Junichiro, to Canon Kabushiki Kaisha. Liquid crystal device. 4,639,089, 1-27-87, Cl. 350-341.000.

Okada, Shinjiro; and Kanbe, Junichiro, to Canon Kabushiki Kaisha. Liquid crystal device and driving method therefor. 4,681,404, 7-21-87, Cl. 350-350.00S.

Okada, Shinjiro; and Tamura, Yasuyuki, to Canon Kabushiki Kaisha. Liquid crystal device and method for driving the same using ferroelectric liquid crystal and FET's. 4,697,887, 10-6-87, Cl. 350-350.00S.

Okada, Shinjiro; Kanbe, Junichiro; Tsuboyama, Akira; and Inaba, Yutaka, to Canon Kabushiki Kaisha. Ferroelectric display panel of varying thickness and driving method therefor. 4,712,877, 12-15-87, Cl. 350-350.00S.

Okada, Shinjiro: *See—*
Kanbe, Junichiro; Okada, Shinjiro; Takahashi, Tohru; and Ando, Yujiro, 4,682,858, Cl. 350-334.000.
Kanbe, Junichiro; and Okada, Shinjiro, 4,709,994, Cl. 350-350.00S.
Kanbe, Junichiro; and Okada, Shinjiro, 4,712,873, Cl. 350-337.000.
Katagiri, Kazuharu; Yoshinaga, Kazuo; Okada, Shinjiro; and Kanbe, Junichiro, 4,714,323, Cl. 350-350.00S.

Taniguchi, Osamu; Okada, Shinjiro; and Ando, Yujiro, 4,712,878, Cl. 350-350.00S.

Okada, Shiro: *See*—
Nakai, Masayuki; Ishikawa, Kikuo; and Okada, Shiro, 4,691,447, Cl. 34-4.000.

Okada, Sumie: *See*—
Hatano, Takashi; Nara, Takashi; Kawato, Yutaka; and Okada, Sumie, 4,698,801, Cl. 370-58.000.

Okada, Syuji: *See*—
Okajima, Yasuhiro; Tsugita, Yasuhiro; Takechi, Tamaki; and Okada, Syuji, 4,681,623, Cl. 75-0.50B.

Okada, Tadao: *See*—
Kondo, Hiroshi; and Okada, Tadao, 4,662,471, Cl. 180-226.000.

Okada, Tahei; and Takesue, Masahiko, to Idemitsu Kosan Company Limited. Shock absorber fluid composition and shock absorber containing said composition. 4,634,543, 1-6-87, Cl. 252-78.500.

Okada, Taiiti: *See*—
Ochiai, Michihiko; Okada, Taiiti; Aki, Osami; Morimoto, Akira; Kawakita, Kenji; and Matsushita, Yoshihiro, 4,668,783, Cl. 540-222.000.

Okada, Takashi; Mogi, Takao; Ohmori, Shoji; Tanaka, Yutaka; and Kobayashi, Hiroyuki, to Sony Corporation. Apparatus for descrambling transmitted scrambled television signals. 4,635,113, 1-6-87, Cl. 358-124.000.

Okada, Takashi; Mogi, Takao; and Mino, Shinjiro, to Sony Corporation. Scrambled television signal receiver system. 4,636,855, 1-13-87, Cl. 358-124.000.

Okada, Takashi; and Ikeda, Yasunari, to Sony Corporation. Television display system with increased field frequency. 4,651,209, 3-17-87, Cl. 358-140.000.

Okada, Takashi; Mogi, Takao; Kobayashi, Hiroyuki; and Ohi, Katsuyuki, to Sony Corporation. Television signal transmission system. 4,679,235, 7-7-87, Cl. 380-20.000.

Okada, Takashi; and Mogi, Takao, to Sony Corporation. Apparatus for scrambling a television signal. 4,700,388, 10-13-87, Cl. 380-20.000.

Okada, Takashi: *See*—
Tomioka, Masao; Okada, Takashi; and Mogi, Takao, 4,635,112, Cl. 358-122.000.

Okada, Takeshi; Hashimoto, Haruto; and Uemura, Michihiko, to Asahi Glass Company Ltd. Ultrasonic delay line. 4,691,178, 9-1-87, Cl. 333-143.000.

Okada, Takeshi: *See*—
Sakurai, Yoji; Hirai, Toshiro; Okada, Shigeto; Okada, Takeshi; Yamaki, Jun-ichi; and Ohtsuka, Hideaki, 4,675,260, Cl. 429-191.000.

Okada, Taketoshi: *See*—
Hayashi, Shoichi; Ishihara, Hidetoshi; Okada, Taketoshi; and Kojima, Kunio, 4,680,874, Cl. 34-143.000.

Okada, Takushi; and Mohri, Shunji, to Hitachi, Ltd. Position error correcting method and apparatus for industrial robot. 4,670,849, 6-2-87, Cl. 364-513.000.

Okada, Tatsunori: *See*—
Matsumura, Mitsuie; Okada, Tatsunori; and Gonjo, Yoshihide, 4,647,516, Cl. 429-19.000.
Matsumura, Mitsuie; Okada, Tatsunori; and Gonjo, Yoshihide, 4,650,728, Cl. 429-19.000.

Okada, Tomoyuki: *See*—
Matsumoto, Tooru; Ishikawa, Satoshi; Nakamura, Eiji; Izuoka, Tomio; and Okada, Tomoyuki, 4,657,963, Cl. 524-406.000.

Okada, Tooru: *See*—
Kiyota, Yuuhiko; Okada, Tooru; and Isomoto, Jun, 4,645,691, Cl. 123-179.00G.

Okada, Toshihiko: *See*—
Goto, Masao; Kimura, Haruo; Okada, Toshihiko; Yuasa, Katsunori; and Ito, Tetuzo, 4,697,708, Cl. 209-534.000.

Okada, Toshiyuki: *See*—
Yamazaki, Yoji; Okada, Toshiyuki; and Miyahara, Tsuneo, 4,661,342, Cl. 424-54.000.

Okada, Tsuneyoshi: *See*—
Yanase, Yukimasa; and Okada, Tsuneyoshi, 4,649,172, Cl. 524-413.000.

Okada, Tsutomu, to Olympus Optical Co., Ltd. High frequency instrument for incision and excision. 4,638,802, 1-27-87, Cl. 128-303.140.

Okada, Tsutomu, to Olympus Optical Co., Ltd. High-frequency incising and excising instrument. 4,643,187, 2-17-87, Cl. 128-303.150.

Okada, Tsutomu, to Olympus Optical Co., Ltd. Calculus crushing apparatus. 4,691,705, 9-8-87, Cl. 128-328.000.

Okada, Wataru: *See*—
Nakashima, Toshimitsu; Okada, Wataru; and Mitani, Toragoro, 4,713,443, Cl. 528-499.000.

Okada, Yaautaka: *See*—
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yaautaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.

Okada, Yasushi, to Honda Giken Kogyo Kabushiki Kaisha. Correction method for vehicle-mounted geomagnetic field sensors. 4,660,161, 4-21-87, Cl. 364-571.000.

Okada, Yasushi: *See*—
Hashimoto, Kenshiro; and Okada, Yasushi, 4,698,209, Cl. 422-88.000.
Hashimoto, Kenshiro; and Okada, Yasushi, 4,702,816, Cl. 204-406.000.

Okada, Yasutaka: *See*—
Igarashi, Masaaki; Okada, Yasutaka; Yoshikawa, Kunihiko; and Kudo, Takeo, 4,652,315, Cl. 148-12.70R.

Minami, Takao; Nagano, Hiroo; Yamanaka, Kazuo; Okada, Yasutaka; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; and Sasaguri, Nobuya, 4,715,909, Cl. 148-410.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.

Okada, Yasuyuki: *See*—
Kambayashi, Hiroaki; and Okada, Yasuyuki, 4,683,552, Cl. 364-900.000.
Tsuhara, Susumu; Tabata, Kuniaki; and Okada, Yasuyuki, 4,692,757, Cl. 340-721.000.

Okada, Yoshikatsu, to NEC Corporation. Liquid cooling module with springy contact elements and an aperture plate slidable thereover, 4,693,303, 9-15-87, Cl. 165-80.400.

Okada, Yoshinori; Fukushima, Isao; Miura, Kuniaki; and Kano, Kenji, to Hitachi, Ltd. Integrated filter circuit with variable frequency characteristics. 4,667,120, 5-19-87, Cl. 307-521.000.

Okada, Yoshinori; Watanabe, Hisaji; Fukushima, Isao; and Yoshida, Hideo, to Hitachi Microcomputer Engineering, Ltd., and Hitachi, Ltd. Magnetic recording apparatus with recording of first and second sound signals. 4,672,468, 6-9-87, Cl. 358-310.000.

Okada, Yoshinori: *See*—
Miura, Kuniaki; Okada, Yoshinori; Fukushima, Isao; and Otsuka, Susumu, 4,691,246, Cl. 358-310.000.
Nakagawa, Isao; Yamamoto, Akihiro; Hirose, Koichi; Okada, Yoshinori; and Kudo, Mitsuru, 4,634,995, Cl. 330-261.000.

Okada, Yoshio; and Igarashi, Yuriko, to Kureha Kagaku Kogyo Kabushiki Kaisha. Partially pressure-sensitive recording paper, 4,640,847, 2-3-87, Cl. 427-150.000.

Okada, Yoshio; Ahiko, Nobuo; and Igarashi, Yuriko, to Kureha Kagaku Kogyo Kabushiki Kaisha. Printing material set for preparing bar-code labels by pressure-sensitive printing method. 4,654,251, 3-31-87, Cl. 428-202.000.

Okada, Yoshio; and Shimizu, Mitsuru, to Kabushiki Kaisha Toshiba. Intermediate potential generation circuit. 4,663,584, 5-5-87, Cl. 323-313.000.

Okada, Yoshio; and Igarashi, Yuriko, to Kureha Kagaku Kogyo Kabushiki Kaisha. Microcapsule for pressure-sensitive recording paper and process of preparing same. 4,670,344, 6-2-87, Cl. 428-402.210.

Okada, Yoshio; and Igarashi, Yuriko, to Kureha Kagaku Kogyo Kabushiki Kaisha. Partially pressure-sensitized recording paper and process for preparing the same. 4,677,449, 6-30-87, Cl. 503-206.000.

Okada, Yoshio; Ahiko, Nobuo; and Igarashi, Yuriko, to Kureha Kagaku Kogyo Kabushiki Kaisha. Pressure-sensitive recording material, 4,696,856, 9-29-87, Cl. 428-321.500.

Okada, Yoshio; Nakamura, Tadashi; and Ohhira, Youichi, to Kureha Kagaku Kogyo Kabushiki Kaisha. Solvent for chromogenic dye precursor material for pressure-sensitive recording paper sheet and pressure-sensitive recording paper sheet prepared by using the solvent. 4,699,658, 10-13-87, Cl. 106-21.000.

Okada, Yoshio; Nakamura, Tadashi; and Ohhira, Youichi, to Kureha Kagaku Kogyo Kabushiki Kaisha. Solvent for chromogenic dye precursor material for pressure-sensitive recording paper sheet and pressure-sensitive recording paper sheet prepared by using the solvent. 4,699,659, 10-13-87, Cl. 106-21.000.

Okada, Yoshio; Akatsu, Masahiro; and Ohira, Yohichi, to Kureha Kagaku Kogyo Kabushiki Kaisha. Soivent, ink and coated paper for carbonless copying system. 4,714,495, 12-22-87, Cl. 106-21.000.

Okada, Yosuke, to Sherwood Medical Company. Catheter for nasogastric intubation. 4,687,470, 8-18-87, Cl. 604-171.000.

Okada, Yuji: *See*—
Kato, Kenji; Okada, Yuji; and Aoshima, Kazuyoshi, 4,658,001, Cl. 526-218.100.
Moriya, Yasuo; Suzuki, Nobuyoshi; and Okada, Yuji, 4,665,132, Cl. 525-277.000.

Okada, Yukiyoshi: *See*—
Obata, Keigo; Dohi, Nobuyasu; Okuhama, Yoshiaki; Masaki, Shi; Okada, Yukiyoshi; and Yoshimoto, Masakazu, 4,673,470, Cl. 204-44.400.

Okado, Chihiro; Ichimura, Kazushi; and Ambo, Tatsuaki, to Tokushu Shibaura Denki Kabushiki Kaisha. Inverter provided with an overvoltage clamping circuit. 4,646,222, 2-24-87, Cl. 363-56.000.

Okado, Hideo; Shoji, Hiroshi; Takaya, Haruo; Kawamura, Kichimi; and Yamazaki, Yasuyoshi, to Director-General of Agency of Industrial Science & Technology. Novel zeolite catalyst and method of preparing. 4,636,482, 1-13-87, Cl. 502-60.000.

Okado, Hiroyuki; Nishizako, Shizutaka; Sako, Yuji; and Kakizaki, Masahiro, to Mitsubishi Denki Kabushiki Kaisha. Electromagnetic contactor. 4,654,744, 3-31-87, Cl. 361-159.000.

Okado, Hiroyuki: *See*—
Mori, Teijiro; Wada, Yuichi; Sako, Yuji; Tazawa, Hiroaki; Okado, Hiroyuki, 4,642,429, Cl. 200-144.00R.

Okado, Kenji: *See*—
Mitsuhashi, Yasuo; Uchiyama, Masaki; Murakawa, Kazunori; Okado, Kenji, 4,640,882, Cl. 430-110.000.

Okafuji, Masaharu; Ochi, Yoshinori; Miyake, Atsushi; Noguchi, Jichi; and Matsuo, Ichiro, to Nippon Sheet Glass Co., Ltd. Method and apparatus for pressing laminated glass. 4,696,713, 9-29-87, Cl. 156-358.000.

Okafuji, Takayuki: *See*—
Sakamoto, Hitoshi; and Okafuji, Takayuki, 4,660,108, Cl. 360-77.000.
Sakamoto, Hitoshi; and Okafuji, Takayuki, 4,698,699, Cl. 360-10.200.

Okahashi, Keiji: *See*—
Nobutoki, Kazuhiro; Ono, Kenji; Okahashi, Keiji; and Matsumura, Sueyoshi, 4,688,010, Cl. 335-128.000.

Oka, Tsukasa; and Araki, Shuichi, to Dainippon Screen Seizo Kabushiki Kaisha. Input method for graphic pattern data. 4,700,402, 10-13-87, Cl. 382-56.000.

Okajima, Atsushi: *See*—
Nitta, Yoshihiko; Okajima, Atsushi; and Yamano, Fumiyuki, 4,641,264, Cl. 364-900.000.
Okamoto, Eri; and Okajima, Atsushi, 4,661,924, Cl. 364-900.000.
Yamano, Fumiyuki; and Okajima, Atsushi, 4,685,060, Cl. 364-419.000.

Okajima, Atushi; Yoshida, Hitoshi; Takeuchi, Yukihisa; and Fukutani, Masanori, to Nippondenso Co., Ltd. Porous ceramic monoliths. 4,695,301, 9-22-87, Cl. 55-523.000.

Okajima, Ikuo: *See*—
Mutoh, Nobuyoshi; Sakai, Keijiro; Suzuki, Toshio; Ueda, Akiteru; Nandoh, Kenji; and Okajima, Ikuo, 4,688,162, Cl. 363-80.000.

Okajima, Kunihiko: *See*—
Kamide, Kenji; and Okajima, Kunihiko, 4,634,470, Cl. 106-163.100.

Okajima, Masaki; Motegi, Nawoto; and Muto, Yuhei, to Tokyo Shibaura Denki Kabushiki Kaisha. Semiconductor laser device and method for manufacturing the same. 4,647,953, 3-3-87, Cl. 357-17.000.

Okajima, Masaki: *See*—
Motegi, Nawoto; Okajima, Masaki; and Muro, Yuhei, 4,635,268, Cl. 372-45.000.
Motegi, Nawoto; Watanabe, Yukio; Shimada, Naohiro; and Okajima, Masaki, 4,691,321, Cl. 372-46.000.
Nakamura, Masaru; Okajima, Masaki; Komatsubara, Tadashi; Sadamasa, Tetsuo; and Nitta, Koichi, 4,706,101, Cl. 357-17.000.

Okajima, Satoru: *See*—
Yamanishi, Kazuhiko; Shintani, Akinori; Okajima, Satoru; and Hanada, Toshiro, 4,673,635, Cl. 435-10.000.

Okajima, Takahiro: *See*—
Ikedo, Yuji; and Okajima, Takahiro, 4,641,298, Cl. 369-77.100.

Okajima, Yasuhiro; Tsugita, Yasuhiro; Takechi, Tamaki; and Okada, Syuji, to Sumitomo Metal Mining Company Limited. Process for producing alloy powder containing rare earth metals. 4,681,623, 7-21-87, Cl. 75-0.50B.

Okajima, Yoshinori; and Ohiwa, Masaki, to Fujitsu Limited, and Fujitsu VLSI Limited. IC input buffer emitter follower with current source value dependent upon connection length for equalizing signal delay. 4,675,555, 6-23-87, Cl. 307-455.000.

Okajima, Yoshinori, to Fujitsu Limited. Semiconductor memory device. 4,677,455, 6-30-87, Cl. 357-38.000.

Okajima, Yoshinori, to Fujitsu Limited. Two stage decoder circuit using threshold logic to decode high-order bits and diode-matrix logic to decode low-order bits. 4,697,104, 9-29-87, Cl. 307-463.000.

Okajima, Yoshinori: *See*—
Ono, Chikai; and Okajima, Yoshinori, 4,636,831, Cl. 357-45.000.

Okamatsu, Shigetoshi: *See*—
Horie, Akira; and Okamatsu, Shigetoshi, 4,672,525, Cl. 363-58.000.
Suzuki, Masato; Narita, Hiroshi; Okamatsu, Shigetoshi; and Abe, Kingo, 4,675,799, Cl. 363-58.000.

Okami, Taketoshi: *See*—
Iwasaki, Keiji; Iwashita, Yuji; and Okami, Taketoshi, 4,670,417, Cl. 514-6.000.

Okami, Yuji: *See*—
Kuwamoto, Hiroshi; Iwadoo, Shuichi; Okami, Yuji; Nagamori, Hiroyuki; and Nakagawa, Yasuhiro, 4,693,839, Cl. 252-51.50A.

Okamine, Shigenori: *See*—
Ohta, Norio; Okamine, Shigenori; Sugita, Yutaka; Seo, Yosuke; and Tamura, Takashi, 4,707,755, Cl. 360-114.000.

Okamori, Shuhei, to Brother Kogyo Kabushiki Kaisha. Bidirectional color printing apparatus. 4,661,003, 4-28-87, Cl. 400-216.100.

Okamoto, Akihiko: *See*—
Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Shimoda, Kouji; Kimoto, Toshiyuki; and Kouno, Tomomitsu, 4,695,996, Cl. 369-77.100.
Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Besshо, Akira; Shimoda, Kouji; Okuda, Kenji; Kama, Haruo; and Kobayashi, Kazuo, 4,700,338, Cl. 369-77.100.

Okamoto, Akinori; Yamaguchi, Tetsuo; Okamura, Haruki; and Orino, Eizo, to Sumitomo Chemical Company, Limited. Vulcanization accelerator, a means for accelerating vulcanization and an improved rubber product containing said accelerator therein. 4,687,756, 8-18-87, Cl. 502-165.000.

Okamoto, Akio: *See*—
Ito, Toshimitsu; and Okamoto, Akio, 4,677,954, Cl. 123-478.000.

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Yamaoka, Hiromasa; Okamoto, Tadashi; Iwasa, Yuzaburo; and Kimura, Kouichi, 4,688,193, Cl. 364-900.000.

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Yuki, Heimei; and Okamoto, Yoshio, 4,681,919, Cl. 525-292.000.

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Okamoto, Yuji, to Toyota Jidosha Kabushiki Kaisha. Construction of door glass guide in motor vehicle. 4,663,888, 5-12-87, Cl. 49-441.000.

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Okamura, Hideaki: *See*—
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Yokouchi, Hiroshi, 4,701,888, Cl. 365-203.000.
Yoshimura, Masato; and Ohsaki, Ryouhei, 4,682,904, Cl. 400-616.000.
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Kitagawa, Jiro; and Oki, Shuichiro, 4,650,697, Cl. 427-125.000.
Oki, Yasuo, to Orihiro Co., Ltd. Packed bag transverse sealing mechanism. 4,662,978, 5-5-87, Cl. 156-498.000.
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Oota, Takashi; Uchikawa, Tadao; Okihara, Naoto; Aihara, Yoshiki; and Wakamatsu, Kazutoshi, 4,672,257, Cl. 310-328.000.
Okimoto, Haruo, to Mazda Motor Corporation. Ignition timing control for a supercharged engine. 4,633,844, 1-6-87, Cl. 123-559.000.
Okimoto, Haruo; Mithui, Syuzi; and Ebino, Hiroshi, to Mazda Motor Corporation. Fuel injection control in supercharged engine. 4,641,619, 2-10-87, Cl. 123-479.000.
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Okimoto, Haruo: *See*—
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Tadokoro, Tomoo; Okimoto, Haruo; and Akagi, Toshimichi, 4,702,219, Cl. 123-559.000.
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Inoue, Atsuo; Miyamoto, Kazuhiro; Hisada, Nobuo; and Okinaga, Nobuyuki, 4,698,105, Cl. 149-2.000.

Okinaka, Hideyuki: *See*—
Kuribayashi, Kiyoshi; Sakai, Masayuki; Monji, Hideto; Aoki, Masaki; Okinaka, Hideyuki; and Torii, Hideo, 4,685,948, Cl. 65-26.000.
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Onizuka, Masakazu; Ukawa, Naohiko; Kono, Susumu; and Okino, Susumu, 4,663,724, Cl. 364-496.000.
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Saito, Syuichiro; and Okino, Tadashi, 4,695,894, Cl. 358-228.000.
Saito, Syuichiro; and Okino, Tadashi, 4,714,966, Cl. 358-335.000.

Okino, Teizou: *See*—
Harada, Yoshiaki; Okino, Teizou; Mathura, Hiroyuki; Doi, Yasuhumi; and Yamasaki, Kenichi, 4,654,149, Cl. 210-763.000.
Harada, Yoshiaki; Nakashiba, Akio; Matuura, Hiroyuki; Okino, Teizou; Fujitani, Hajime; Yamasaki, Kenichi; Doi, Yasuhumi; and Yurugi, Shigenobu, 4,699,720, Cl. 210-762.000.

Okinoshima, Hiroshige, to Shin-Etsu Chemical Co., Ltd. Curable silicone composition. 4,654,408, 3-31-87, Cl. 528-15.000.

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Itoh, Kunio; Kozakai, Shohei; Hida, Yoshinori; Okinoshima, Hiroshige; Okada, Fumio; Oba, Toshio; Shimizu, Hisashi; Hinoto, Yuji; and Yoshioka, Hiroshi, 4,678,688, Cl. 427-387.000.
Nishimura, Yoshiaki; Okinoshima, Hiroshige; Yamada, Seiya; and Kashiwagi, Tsutomu, 4,650,849, Cl. 528-26.000.

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Nakanishi, Haruo; Sakaki, Hirokazu; Yamazaki, Toru; and Okishi, Yoshio, 4,678,551, Cl. 204-129.750.
Takeuchi, Makoto; Kitazumi, Etsuo; Sakaki, Hirokazu; and Okishi, Yoshio, 4,714,528, Cl. 204-33.000.

Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, to Sumitomo Electric Industries, Ltd. Apparatus for manufacturing porous polytetrafluoroethylene material. 4,671,754, 6-9-87, Cl. 425-66.000.

Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, to Sumitomo Electric Industries, Ltd. Liquid membrane. 4,705,544, 11-10-87, Cl. 55-158.000.

Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, to Alps Electric Co., Ltd. Loading and ejecting mechanism in a recording and reproducing apparatus. 4,635,149, 1-6-87, Cl. 360-97.000.

Okita, Masao, to Alps Electric Co., Ltd. Disc clamp device. 4,637,010, 1-13-87, Cl. 369-270.000.

Okita, Masao; and Miyata, Hiroyasu, to Alps Electric Co., Ltd. Optical rotary encoder. 4,639,595, 1-27-87, Cl. 250-231.0SE.

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Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, to Alps Electric Co., Ltd. Spring loaded ejector for disc cartridge. 4,679,106, 7-7-87, Cl. 360-99.000.

Okita, Masao, to Alps Electric Co., Ltd. Member for intermittent feed motion. 4,688,440, 8-25-87, Cl. 74-89.150.

Okita, Masao, to Alps Electric Co., Ltd. Twist preventing mechanis for leaf hinge spring in a magnetic head assembly. 4,704,646, 11-3-8 Cl. 360-105.000.

Okita, Masao: *See*—
Shigenai, Osamu; Saito, Yukio; Gunji, Kunihiko; Shimaok Motohiro; Hirose, Yasuyuki; and Okita, Masao, 4,672,490, 6 360-105.000.
Sugawara, Tadami; and Okita, Masao, 4,677,358, Cl. 318-696.00

Okita, Masaya; and Uehara, Ryo, to Nippon Kogaku K. K. Demodul tion circuit having means for detecting phase difference. 4,651,1 3-17-87, Cl. 329-110.000.

Okita, Masaya; Sawada, Masahiro; and Ota, Tadashi, to Nipp Kogaku K. K. Motor rotation control apparatus. 4,658,191, 4-14-8 Cl. 318-314.000.

Okita, Masaya; Sawada, Masahiro; and Ota, Tadashi, to Nipp Kogaku K. K. Drive circuit for brushless DC motors. 4,710,6 12-1-87, Cl. 318-254.000.

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Okita, Masaya, to Nippon Kogaku K. K. Servo apparatus. 4,710,8 12-1-87, Cl. 360-10.100.

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Kawahara, Atsushi; and Okita, Masaya, 4,692,815, Cl. 358-335.0

Okita, Ryosuke: *See*—
Nishino, Hiroshi; Okamoto, Kiyohide; and Okita, Ryosu 4,664,238, Cl. 192-84.00C.

Okita, Tsutomu; Naruo, Kyoichi; Tsuji, Nobuo; Nakagawa, Ter Murase, Kiyoshi; and Ogasawara, Takahisa, to Fuji Photo Film C Ltd.; and Toagosei Chemical Industry Co., Ltd. Magnetic record material. 4,657,817, 4-14-87, Cl. 428-425.900.

Okita, Tsutomu; and Tada, Sugihiko, to Fuji Photo Film Co., L Process for producing a magnetic recording medium. 4,664,7 5-12-87, Cl. 156-231.000.

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Okita, Tsutomu; Tsuji, Nobuo; Hashimoto, Hiroshi; and Muka Yoshito, to Fuji Photo Film Co., Ltd. Magnetic recording medi 4,690,870, 9-1-87, Cl. 428-425.900.

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Okita, Tsutomu; Hashimoto, Hiroshi; and Aonuma, Masashi, to F Photo Film Co., Ltd. Magnetic recording medium. 4,716,0 12-29-87, Cl. 428-328.000.

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Aonuma, Masashi; Watanabe, Hideomi; Miyoshi, Takahito; Okita, Tsutomu, 4,686,149, Cl. 428-522.000.
Hashimoto, Hiroshi; Okita, Tsutomu; and Hibino, Nob 4,673,590, Cl. 427-44.000.
Hashimoto, Hiroshi; Okita, Tsutomu; and Mukaida, Yosh 4,707,380, Cl. 427-40.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Yanagih Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,693,927, 428-216.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niin Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,711,809, 428-336.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niin Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,713,287, 428-336.000.

Okitaka, Isao: *See*—
Kaieda, Osamu; Awashima, Masaru; Okitaka, Isao; and Nakam Toshiaki, 4,684,734, Cl. 546-345.000.

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Okitu, Kiyoshi; and Watanabe, Shiogi, to Daicel Chemical Indust Ltd. Polyesteramide. 4,663,428, 5-5-87, Cl. 528-324.000.

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Ishida, Tetsuyoshi; Okiura, Kunio; Hanayama, Fumihiko; Yam Mutsuo; and Arikawa, Yoshijiro, 4,711,828, Cl. 429-12.000.

Okiyama, Yoichi: *See*—
Kinoshita, Tomoaki; Takano, Kunio; Okiyama, Yoichi; and chikawa, Osamu, 4,683,827, Cl. 112-121.120.
Takano, Kunio; Nukushina, Masanori; Okiyama, Yoichi; Miyamoto, Toshiyuki, 4,691,649, Cl. 112-121.120.

Okkerse, Cornelis E. G. Trousers-press. 4,682,429, 7-28-87, 38-36.000.

Oklobdzija, Vojin G.; and Ling, Daniel T., to International Bus Machines Corp. Instruction prefetch buffer control. 4,714 12-22-87, Cl. 364-200.000.

Oklobdzija, Vojin G.: *See*—
Ling, Daniel T.; Oklobdzija, Vojin G.; and Raver, Nor 4,700,086, Cl. 307-443.000.

Okochi, Sadao, to Kabushiki Kaisha Toshiba. Line filter. 4,667 5-19-87, Cl. 333-177.000.

Okochi, Sadao, to Kabushiki Kaisha Toshiba. Stabilizing power source apparatus. 4,677,534, 6-30-87, Cl. 363-21.000.

Okojima, Sumio: *See*—
Yuhara, Yukitomo; Okojima, Sumio; and Ishikawa, Tatsuo, 4,679,576, Cl. 132-82.00R.

Okonogi, Shigeo; Yuguchi, Hiroya; Miyazaki, Yusuke; Tanai, Sumio; and Ohta, Minoru, to Morinaga Mild Industry Co., Ltd. Method of manufacturing a whipped dessert. 4,668,520, 5-26-87, Cl. 426-564.000.

Okonogy, Tsuneo: *See*—
Shibahara, Seiji; Okonogy, Tsuneo; Murai, Yasushi; Fukatsu, Shunzo; Niida, Taro; Christensen, Burton G.; and Wakazawa, Tadashi, 4,645,769, Cl. 514-210.000.

Okopny, Morris J. Knock-down display table. 4,699,067, 10-13-87, Cl. 108-111.000.

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Dale, M. Clark; Wankat, Philip C.; and Okos, Martin R., 4,665,027, Cl. 435-162.000.

Okoshi, Noboru; Motomura, Masatoshi; Ohtsubo, Mitsuru; and Ikeda, Takenori, to Dainippon Ink and Chemicals, Inc. Pigment paste. 4,710,230, 12-1-87, Cl. 106-308.00N.

Okoshi, Noboru: *See*—
Kase, Mitsuo; Okoshi, Noboru; and Tsuyuzaki, Kazue, 4,647,623, Cl. 525-123.000.

Okoshi, Yukio: *See*—
Okamura, Hisanori; Miyazaki, Kunio; Akiyama, Hirosi; Itoh, Shinichi; Yasuda, Tomio; Nakamura, Kousuke; Okoshi, Yukio; Kamoshita, Mutuo; and Chiba, Akio, 4,690,793, Cl. 376-136.000.

Okouchi, Isamu: *See*—
Otake, Katsumoto; Miyai, Masahiko; Mukai, Yasuteru; and Okouchi, Isamu, 4,692,253, Cl. 210-791.000.

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Savolainen, Esko; Laukkarinen, Tuomo; Lehto, Arto; Oksman, Erkki; and Eilamo, Unto, 4,636,181, Cl. 474-207.000.

Oksman, Norman H.: *See*—
Talmage, Joseph M.; and Oksman, Norman H., 4,675,160, Cl. 422-56.000.

Oksuzler, Yalcin, to Mobil Oil Corporation. Method and apparatus for positioning an offshore platform jacket. 4,690,586, 9-1-87, Cl. 405-209.000.

Oktay, Sevgin: *See*—
Mansuria, Mohanlal S.; Meinert, Rolf G.; Oktay, Sevgin; and Ostergren, Carl D., 4,696,578, Cl. 374-45.000.

Oku, Kentaro; and Fukushima, Masakazu, to Hitachi, Ltd.; and Hitachi Denshi Kabushiki Kaisha. Magnetic focus and electrostatic deflection type image pick-up tube. 4,663,560, 5-5-87, Cl. 313-390.000.

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Oku, Kenzo: *See*—
Matsushita, Masao; Oku, Kenzo; Nakano, Hiroki; and Okumura, Shin-ichi, 4,709,558, Cl. 62-480.000.

Oku, Masao: *See*—
Miura, Yoshio; Takayama, Chiharu; Fujishima, Tooru; Oku, Masao; Kawashima, Tooru; and Kudo, Yoshimichi, 4,669,072, Cl. 369-44.000.

Oku, Seiji: *See*—
Izuki, Fumiaki; and Oku, Seiji, 4,638,154, Cl. 250-227.000.

Oku, Teruo: *See*—
Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, 4,650,804, Cl. 514-306.000.
Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, 4,698,349, Cl. 514-306.000.

Okubi, Hiroshi, to Oki Electric Industry Co., Ltd. Printed-circuit construction with EPROM IC chip mounted thereon. 4,635,165, 1-6-87, Cl. 361-400.000.

Okuhara, Patricia A.; Pierce, Dorothy A.; and Nutter, Robert C., to Stauffer Chemical Co. Hybrid plasmid with marker. 4,670,399, 6-2-87, Cl. 435-317.000.

Okuhira, Hideo: *See*—
Okuhira, Tsutomu; Okamura, Kyuya; Okubo, Hideo; Mizuguchi, Hidemichi; and Yamanaka, Shigeru, 4,650,871, Cl. 544-382.000.

Okuhira, Hitoshi: *See*—
Yamamoto, Yoshun; Okubo, Hitoshi; Watanabe, Yutaka; Uchiyama, Eizo; and Yasunaga, Yutaka, 4,697,446, Cl. 72-178.000.

Okuhira, Kimio; and Nemoto, Hiroshi, to Fujitsu Limited. Chucking device of workpiece in grinding machine. 4,709,512, 12-1-87, Cl. 51-237.00R.

Okuhira, Kiyokazu; and Sakuma, Shunji, to Honda Giken Kogyo Kabushiki Kaisha. Vehicular transmission select and shift mechanism. 4,646,584, 3-3-87, Cl. 74-475.000.

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Okuhira, Masakuni: *See*—
Suzuki, Masami; Yamaguchi, Kouki; Katayama, Hisato; Muta, Tadayoshi; Okubo, Masakuni; Mochizuki, Akira; and Adachi, Hiroshi, 4,699,640, Cl. 55-385.00A.

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Okubo, Masao: *See*—
Kobayashi, Mineo; Yoshida, Takeshi; Aoki, Masahiro; Okubo, Masao; and Nagayama, Masaaki, 4,659,397, Cl. 148-12.00E.

Okubo, Naofumi: *See*—
Kaneko, Yoshiaki; Saito, Toshiyuki; and Okubo, Naofumi, 4,686,494, Cl. 333-137.000.

Okubo, Sakae: *See*—
Nishiwaki, Mitsuo; Amano, Tooru; Yasuda, Tooru; Okubo, Sakae; and Mukawa, Naoki, 4,688,233, Cl. 375-58.000.

Okubo, Tadanobu. Method of processing a metal surface. 4,707,238, 11-17-87, Cl. 204-192.310.

Okubo, Takashi: *See*—
Aoyagi, Yoshiaki; Okubo, Takashi; Tomita, Toshio; Nishida, Hiroshi; and Enomoto, Hiroshi, 4,642,307, Cl. 514-252.000.

Okubo, Takesi: *See*—
Tomita, Tomoya; Hiramoto, Sotozi; Okubo, Takesi; Matsuo, Kuniyuki; Ashihara, Hiromoto; Nakamura, Mitsuo; Takahashi, Tsutomu; Fujino, Motoaki; and Hosaka, Kenji, 4,637,134, Cl. 29-741.000.

Okubo, Wataru: *See*—
Kamata, Hiroshi; and Okubo, Wataru, 4,658,438, Cl. 455-264.000.

Okubo, Yasumi; and Morino, Asami, to Amada Company, Limited. Wire EDM method for preventing wire lagging during machining of an angular corner and workpiece position control. 4,703,143, 10-27-87, Cl. 219-69.00W.

Okubo, Yosiyuki: *See*—
Kobayashi, Masaaki; Okubo, Yosiyuki; and Tatsuda, Kazunori, 4,692,663, Cl. 313-495.000.

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Yamasaki, Tetsuya; and Okuda, Eiji, 4,693,544, Cl. 350-96.160.

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Okuda, Ichiro: *See*—
Hono, Susumu; Okuda, Ichiro; Ishihara, Hiroshi; and Hori, Masahiko, 4,685,113, Cl. 375-7.000.

Okuda, Katsuji: *See*—
Kiyoshige, Tatsuo; Kikuchi, Yasuo; Takazoe, Ichiro; and Okuda, Katsuji, 4,689,221, Cl. 424-87.000.

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Okuda, Kenji: *See*—
Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Bessho, Akira; Shimoda, Kouji; Okuda, Kenji; Kama, Haruo; and Kobayashi, Kazuo, 4,700,338, Cl. 369-77.100.
Wada, Shigekazu; and Okuda, Kenji, 4,672,489, Cl. 360-104.000.

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Naito, Tadashi; Okuda, Kenzo; Ohmori, Masakazu; Saijyo, Toru; and Imaizumi, Ken, 4,700,309, Cl. 364-468.000.

Okuda, Kiyoshi; and Aoi, Renji, to Fujisawa Pharmaceutical Co., Ltd. Fast release solid preparation of dihydropyridine a compound. 4,654,206, 3-31-87, Cl. 424-480.000.

Okuda, Makoto: *See*—
Hattori, Shuzo; Wakita, Naomasa; and Okuda, Makoto, 4,660,941, Cl. 350-487.000.
Wakita, Naomasa; and Okuda, Makoto, 4,705,365, Cl. 350-487.000.

Okuda, Masakiyo; Ohnishi, Kazuyuki; and Mitsuyama, Akira, to Sharp Kabushiki Kaisha. Automatic duplex copying type copying apparatus. 4,639,125, 1-27-87, Cl. 355-23.000.

Okuda, Masakiyo; and Ohnishi, Kazuyuki, to Sharp Kabushiki Kaisha. Automatic duplex electrophotographic copying machine. 4,655,582, 4-7-87, Cl. 355-14.00R.

Okuda, Masakiyo; and Ohnishi, Kazuyuki, to Sharp Kabushiki Kaisha. Copying machine with a reservation function. 4,708,461, 11-24-87, Cl. 355-14.00R.

Okuda, Masakiyo: *See*—
Anzai, Shunju; Miwa, Yoshihisa; and Okuda, Masakiyo, 4,688,924, Cl. 355-3.0SH.

Okuda, Nobuhiro: *See*—
Yamano, Masaru; Kuwano, Yukinori; Nakano, Shoichi; Matsuoka, Tsugufumi; Sakai, Souichi; Yagi, Hirosato; and Okuda, Nobuhiro, 4,670,293, Cl. 427-39.000.

Okuda, Noriyoshi: *See*—
Ohno, Nobuhiko; Ogiue, Katsumi; Mizue, Katsuya; and Okuda, Noriyoshi, 4,656,606, Cl. 365-104.000.

Okuda, Ryoichi: *See*—
Kawai, Motoshi; Yamamoto, Noboru; Mase, Katuhisa; Matsui, Takeshi; Mikino, Tomoatsu; Miyase, Yoshiyuki; Okuda, Ryoichi; and Suzumura, Koichi, 4,649,888, Cl. 123-609.000.

Okuda, Shinji, to Diesel Kiki Co., Ltd. Fuel injection nozzle with timing sensor. 4,662,564, 5-5-87, Cl. 239-73.000.

Okuda, Shinya: *See*—
Matsumoto, Norio; Okuda, Shinya; Ohkuma, Osamu; and Seino, Mituyoshi, 4,641,980, Cl. 400-120.000.

Okuda, Shozo: *See*—
Nagano, Shuji; Ida, Shuichiro; Yoshinaka, Toshio; and Okuda, Shozo, 4,690,015, Cl. 74-665.0GE.

Okuda, Shuji; Shimomura, Hideo; Honda, Kusuo; Kawaguchi, Masato; Kuno, Yasuo; Kumagai, Takenori; and Kato, Nobuo, to Shimizu Construction Co. Ltd.; and Kawasaki Steel Corporation. Trussed girder, roof framing using the trussed girder and method of constructing the roof framing of a building using the trussed girder. 4,697,397, 10-6-87, Cl. 52-223.00R.

Okuda, Tadashi: *See*—
Iguma, Akira; and Okuda, Tadashi, 4,669,823, Cl. 380-255.000.
Iguma, Akira; Okuda, Tadashi; Ieki, Kouichi; and Sasamoto, Toshio, 4,702,555, Cl. 350-247.000.

Okuda, Takao: *See*—
Yamada, Hirotada; Masai, Naruhito; Ueda, Sinji; Okuda, Takao; Fukasawa, Masatomo; Kato, Masuhiro; and Fukumura, Masataka, 4,705,784, Cl. 514-202.000.

Okuda, Takio: *See*—
Morita, Takeshi; Okuda, Takio; Machida, Kazumichi; Sato, Yoshio; and Nakamura, Yoshitaka, 4,700,041, Cl. 219-96.000.

Okuda, Tohru: *See*—
Fujii, Yoshikazu; Inui, Tetsuya; Deguchi, Toshihisa; and Okuda, Tohru, 4,667,315, Cl. 369-44.000.

Okuda, Toshio, to 'totes', Incorporated. Umbrella rib tipping system. 4,633,894, 1-6-87, Cl. 135-34.000.

Okuda, Toshio, to 'totes', incorporated. Umbrella cloth mounting assembly and method. 4,658,845, 4-21-87, Cl. 135-36.0RT.

Okuda, Yaeko: *See*—
Ooka, Masataka; Okuda, Yaeko; and Kunugize, Motoyasu, 4,696,975, Cl. 525-113.000.

Okuda, Yasushi: *See*—
Shioi, Keiko; and Okuda, Yasushi, 4,657,591, Cl. 106-23.000

Okuda, Yukito: *See*—
Ishii, Koji; and Okuda, Yukito, 4,676,158, Cl. 101-218.000.
Ishii, Koji; and Okuda, Yukito, 4,691,631, Cl. 101-218.000.

Okudaira, Ken: *See*—
Koyama, Toshihiro; Watanabe, Takahiro; Shiozaki, Hiroyuki; Kawanami, Takao; Takahashi, Hideo; Shiraishi, Toshiyuki; and Okudaira, Ken, 4,665,729, Cl. 72-8.000.

Okudaira, Sadao; Hama, Yoshihiro; and Urata, Shinji, to Asahi Kogaku Kogyo Kabushiki Kaisha. Optical system for TTL automatic focusing video camera. 4,652,931, 3-24-87, Cl. 358-227.000.

Okudaira, Sadao, to Asahi Kogaku Kogyo Kabushiki Kaisha. Photographic lens with large aperture ratio. 4,702,568, 10-27-87, Cl. 350-464.000.

Okudaira, Sadayuki; Nishimatsu, Shigeru; Suzuki, Keizo; Ninomiya, Ken; and Hamazaki, Ryoji, to Hitachi, Ltd. Method for microwave plasma processing. 4,705,595, 11-10-87, Cl. 156-643.000.

Okudaira, Souichirou: *See*—
Hirosawa, Yasunori; and Okudaira, Souichirou, 4,658,925, Cl. 180-68.100.

Okudaira, Tadashi: *See*—
Kuze, Katsuaki; Nishino, Yasuhiro; Matsuyama, Yujiro; Maeda, Kozo; Kobayashi, Masahiro; Okudaira, Tadashi; Hongo, Tsuyoshi; and Makimura, Osamu, 4,693,932, Cl. 428-323.000.

Okudaira, Toshiyuki: *See*—
Abe, Hiroshi; Shichiri, Motoaki; Kawamori, Ryuzo; Ichoh, Tasuku; Iwatani, Kenji; Higuchi, Mamoru; Takagi, Kiyotaka; Okamoto, Norihiko; and Okudaira, Toshiyuki, 4,636,144, Cl. 417-63.000.

Okude, Yoshitaka; and Itoh, Eiji, to Nippon Paint Co., Ltd. Reactive acrylic oligomer, grafted acrylic resinous composition based on said oligomer and coating composition containing the same. 4,659,781, 4-21-87, Cl. 525-279.000.

Okude, Yoshitaka: *See*—
Miyazono, Tadafumi; Eguchi, Yoshio; Ogino, Akiharu; Sawada, Haruhiko; and Okude, Yoshitaka, 4,714,634, Cl. 427-409.000.

Okudera, Tatsuya: *See*—
Yamazaki, Iwao; Nakamichi, Yuji; Abe, Keizo; and Okudera, Tatsuya, 4,682,221, Cl. 358-107.000.

Okugawa, Tetsuo: *See*—
Aoki, Hisashi; Kodera, Kaoru; and Okugawa, Tetsuo, 4,668,050, Cl. 350-349.000.

Okuhama, Yoshiaki: *See*—
Obata, Keigo; Dohi, Nobuyasu; Okuhama, Yoshiaki; Masaki, Seishi; Okada, Yukiyoshi; and Yoshimoto, Masakazu, 4,673,470, Cl. 204-44.400.

Okuhara, Akira, to Kikkoman Corporation. Production of vineger with bacteria on a support. 4,661,356, 4-28-87, Cl. 426-17.000.

Okuhara, Hiroo, to Kabushiki Kaisha Toshiba. Input data reader apparatus for switch array. 4,661,957, 4-28-87, Cl. 371-59.000.

Okuhara, Hisakazu: *See*—
Higuchi, Kazuo; Okuhara, Hisakazu; and Sasaki, Kiichi, 4,635,963, Cl. 280-801.000.
Higuchi, Kazuo; Sugama, Takayuki; Okuhara, Hisakazu; and Sasaki, Kiichi, 4,682,789, Cl. 280-801.000.
Sasaki, Kiichi; Tabata, Hiroshi; Okuhara, Hisakazu; and Higuchi, Kazuo, 4,643,449, Cl. 280-808.000.
Sasaki, Kiichi; Saruwatari, Hidetoshi; Higuchi, Kazuo; Okuhara, Hisakazu; and Tabata, Hiroshi, 4,650,215, Cl. 280-808.000.
Sasaki, Kiichi; Tabata, Hiroshi; Okuhara, Hisakazu; and Higuchi, Kazuo, 4,697,827, Cl. 280-808.000.

Okuhara, Masakuni: *See*—
Kiyoto, Sumio; Okuhara, Masakuni; Kino, Eiko; Tanaka, Hirokazu; Aoki, Hatsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,680,178, Cl. 424-122.000.

Okuhira, Hidekazu; and Wada, Yasuo, to Hitachi, Ltd. Manufacturing apparatus for semiconductor devices. 4,693,779, 9-15-87, Cl. 156-638.000.

Okui, Isamu; and Onda, Tetsurou, to Kabushiki Kaisha Toshiba. D restoration circuit. 4,691,235, 9-1-87, Cl. 358-172.000.

Okui, Kazuyuki: *See*—
Moriki, Shinichi; and Okui, Kazuyuki, 4,634,167, Cl. 296-31.00F

Okui, Susumu: *See*—
Maekawa, Yoshikazu; and Okui, Susumu, 4,705,389, Cl. 355-26.0

Okui, Tamio: *See*—
Takahara, Atsushi; Ishikawa, Tomoyoshi; Tanaka, Hiroyuki; a
Okui, Tamio, 4,679,004, Cl. 331-14.000.

Okui, Tokujiro, to Tomii, Uzo. Method of receiving small-sized el tronic parts. 4,702,788, 10-27-87, Cl. 156-252.000.

Okuma, Akihiro: *See*—
Yuasa, Yasuhito; Hayashi, Kazumasa; Nakata, Koreaki; a
Okuma, Akihiro, 4,689,285, Cl. 430-122.000.

Okumoto, Ryoji: *See*—
Ukai, Mikio; and Okumoto, Ryoji, 4,702,483, Cl. 277-212.0FB

Okumoto, Ryouji: *See*—
Ukai, Mikio; and Okumoto, Ryouji, 4,693,484, Cl. 277-212.0FB

Okumoto, Tadaoki; Nakata, Rikizo; Ichikawa, Masayoshi; Tsuchiha Masaaki; and Sakai, Koichi, to Kao Corporation; and Toyoda Go Co., Ltd. Chloroprene rubber composition. 4,645,788, 2-24-87, 524-308.000.

Okumoto, Tadaoki: *See*—
Yagishita, Shigeru; Hosoya, Kiyoshi; Okumoto, Tadaoki;
Sugimoto, Masatoshi, 4,650,834, Cl. 525-386.000.

Okumoto, Yutaka, to Japan Tobacco Inc. Shredded tobacco feed apparatus for cigarette making machine. 4,635,648, 1-13-87, 131-109.100.

Okumoto, Yutaka, to Japan Tobacco Inc. Device for controlling d tents of tobacco on cigarette machine. 4,638,817, 1-27-87, 131-280.000.

Okumoto, Yutaka, to Japan Tobacco Inc. Apparatus for cutting c rettes. 4,640,168, 2-3-87, Cl. 83-677.000.

Okumoto, Yutaka; Furukawa, Takao; and Komori, Mikio, to Ja Tobacco Inc. Tobacco manufacturing machine. 4,671,299, 6-9-87, 131-60.000.

Okumoto, Yutaka, to Japan Tobacco & Salt Public Corporation, Continuous cigarette rod cutting apparatus for a cigarette ma machine. 4,693,260, 9-15-87, Cl. 131-84.100.

Okumoto, Yutaka, to Japan Tobacco & Salt Public Corporation, Continuous cigarette rod cutting apparatus for a cigarette ma machine. 4,693,261, 9-15-87, Cl. 131-84.100.

Okumoto, Yutaka: *See*—
Kobayashi, Hideki; Okumoto, Yutaka; and Komori, M 4,660,574, Cl. 131-105.000.
Kobayashi, Hideki; Okumoto, Yutaka; and Komori, M 4,681,505, Cl. 414-744.00R.

Okumuki, Mishizu, legal representative: *See*—
Fujiwara, Ichinori; Kawashima, Kunikazu; and Tobe, Tak deceased, 4,663,709, Cl. 364-200.000.

Okumura Corporation: *See*—
Murakami, Susumu; and Fujita, Satoshi, 4,666,336, Cl. 405-138
Murakami, Susumu; and Honda, Hiroo, 4,673,218, Cl. 299-15.
Ohi, Toshio, 4,681,170, Cl. 173-50.000.

Okumura, Eisuke; and Tsuno, Katsuhiko, to Kabushiki Kaisha Tos Star scanner with semiconductor photosensitive elements ha reticles. 4,703,167, 10-27-87, Cl. 250-203.00R.

Okumura, Fumio: *See*—
Kosaka, Takao; Okumura, Fumio; and Tsukahara, Hiro 4,711,749, Cl. 264-4.700.

Okumura, Hideaki: *See*—
Iwashita, Yukihiro; and Okumura, Hideaki, 4,715,686, Cl. 339.00R.

Okumura, Hitoshi; and Mizobuchi, Susumu, to NHK Spring Co., Securing device for a baggage cover sheet winder. 4,668,001, 5-2 Cl. 296-37.160.

Okumura, Ichiro; Tsukimoto, Takayuki; Okuno, Takuo; Izu Kazuhiro; Seki, Hiroyuki; Mukohjima, Hitoshi; Kaneda, Naoya Hiramatsu, Akira, to Canon Kabushiki Kaisha. Vibration wav tor. 4,692,650, 9-8-87, Cl. 310-323.000.

Okumura, Ichiro: *See*—
Hiramatsu, Akira; Mukohjima, Hitoshi; Kaneda, Naoya; O Takuo; Seki, Hiroyuki; Tsukimoto, Takayuki; Izu Kazuhiro; and Okumura, Ichiro, 4,692,651, Cl. 310-323.00
Izukawa, Kazuhiro; and Okumura, Ichiro, 4,657,360 350-620.000.
Izukawa, Kazuhiro; Tsukimoto, Takayuki; and Okumura, I 4,678,956, Cl. 310-323.000.

Okumura, Jun: *See*—
Aburaki, Shimpei; Narita, Yukio; Okumura, Jun; Naito, Tak and Walker, Donald G., 4,659,812, Cl. 540-222.000.
Hoshi, Hideaki; Okumura, Jun; Naito, Takayuki; Abe, Yoshi Aburaki, Shimpei, 4,661,590, Cl. 540-215.000.
Hoshi, Hideaki; Okumura, Jun; Naito, Takayuki; Abe, Yoshi Aburaki, Shimpei, 4,699,979, Cl. 540-215.000.
Iimura, Seiji; Abe, Yoshio; Okumura, Jun; Naito, Takayuk Kamachi, Hajime, 4,708,955, Cl. 514-202.000.

Okumura, Katsuhiro, to Toyota Jidosha Kabushiki Kaisha. Co tion of door frame in motor vehicle. 4,694,611, 9-22-8 49-441.000.

Okumura, Katsuji, to Automax Kabushiki-Kaisha. Multiple robo trol system using grid coordinate system for tracking and com travel over a mapped region containing obstructions. 4,6 6-16-87, Cl. 364-424.000.

Okumura, Katsuya: *See*—
Egawa, Hideharu; and Okumura, Katsuya, 4,678,114, Cl. 228-176.000.

Okumura, Kazuyoshi, to Kyoto Measuring Instruments Corp. Digital tape measure. 4,658,134, 4-14-87, Cl. 250-231.00R.

Okumura, Koichiro; and Watanabe, Takeshi, to NEC Corporation. Semiconductor memory device including non-volatile transistor for storing data in a bistable circuit. 4,635,229, 1-6-87, Cl. 365-154.000.

Okumura, Koichiro; and Ohkawa, Masayoshi, to NEC Corporation. MOSFET-type driving circuit with capacitive bootstrapping for driving a large capacitive load at high speed. 4,680,488, 7-14-87, Cl. 307-482.000.

Okumura, Kunio; Fukuyama, Yasuo; and Tanaka, Atsuo, to Yamauchi Rubber Industry Co., Ltd. Method for making magnetic rolls. 4,640,808, 2-3-87, Cl. 264-46.500.

Okumura Machinery Corporation: *See*—
Maeda, Akiya; Sakai, Mituya; Masaka, Yukinobu; Nomura, Masahiro; Yamada, Yasuo; and Tatsuhama, Tetsuro, 4,711,501, Cl. 299-21.000.

Okumura, Makoto: *See*—
Uchida, Katsuhiro; Masumoto, Shozo; Tohno, Masao; Mimura, Mitsuo; Okumura, Makoto; Ichikawa, Kiyonoshin; and Matsumura, Misako, 4,699,925, Cl. 514-559.000.

Okumura, Masahide; Matsuzaka, Takashi; Matsuoka, Genya; and Saitou, Norio, to Hitachi, Ltd. Electron beam exposure apparatus. 4,701,620, 10-20-87, Cl. 250-398.000.

Okumura, Masahide: *See*—
Ichihashi, Mikio; Okumura, Masahide; and Fukuhara, Satoru, 4,670,652, Cl. 250-310.000.
Saitou, Norio; Ozasa, Susumu; Okumura, Masahide; Ooyama, Mitsuo; Komoda, Tsutomu; Harada, Katsuhiro; Fujinami, Minpei; and Iwadate, Kazumi, 4,692,579, Cl. 250-492.200.

Okumura, Masaru: *See*—
Date, Takao; Okumura, Masaru; and Watanabe, Koya, 4,715,490, Cl. 198-346.100.

Okumura, Masuo; and Ohshima, Ken, to Olympus Optical Company Limited. Data recording area signal generating method and apparatus. 4,674,071, 6-16-87, Cl. 369-48.000.

Okumura, Minoru: *See*—
Tanaka, Jouji; Watanabe, Tetunobu; Tanimoto, Yoshiji; and Okumura, Minoru, 4,641,337, Cl. 379-162.000.
Tanaka, Kinzi; Tagawa, Toru; Tanimoto, Yoshiji, and Okumura, Minoru, 4,660,219, Cl. 379-164.000.

Okumura, Mitsuhiro; Naya, Eizo; Harima, Mitsuhiro; Murakami, Shoji; and Miyamoto, Seiichi, to Mitsubishi Denki Kabushiki Kaisha. Contact material for vacuum circuit breaker. 4,677,264, 6-30-87, Cl. 200-144.00B.

Okumura, Munehiro; Kuwahara, Kazuo; Arita, Masujiro; Mori, Shingo; Ohmura, Tetsuya; Yamamoto, Osamu, and Ishii, Shinichi, to Mitsubishi Rayon Co., Ltd.; and Mitsubishi Rayon Engineering Co. Ltd. Hollow-fiber filter module and filtration method using the same. 4,668,401, 5-26-87, Cl. 210-650.000.

Okumura, Munehiro; Nomura, Takao; Matsuda, Tadashi; Kido, Shojiro; Ishii, Shinichi; and Hattori, Hideki, to Mitsubishi Rayon Engineering Co., Ltd. Aerator and aerobic biological treatment process using same. 4,690,764, 9-1-87, Cl. 210-629.000.

Okumura, Nobuo, to Aisin Seiki Kabushiki Kaisha. Cryogenic refrigerator. 4,708,725, 11-24-87, Cl. 62-6.000.

Okumura, Norio: *See*—
Utsumi, Shigeo; Kanesaki, Tateo; Kagiyama, Takashi; Otonari, Satoshi; Ikushima, Koichiro; and Okumura, Norio, 4,708,902, Cl. 428-141.000.

Okumura, Shin-ichi: *See*—
Matsushita, Masao; Oku, Kenzo; Nakano, Hiroki; and Okumura, Shin-ichi, 4,709,558, Cl. 62-480.000.

Okumura, Shinichi; and Okumura, Yasushi, to Okumura, Shinichi. Boiler apparatus utilizing exhaust gas heat. 4,694,891, 9-22-87, Cl. 165-41.000.

Okumura, Takatoshi: *See*—
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,635,048, Cl. 340-703.000.
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,660,070, Cl. 358-11.000.
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,684,942, Cl. 340-703.000.

Okumura, Takeshi; and Iwashita, Yoshihiro, to Toyota Jidosha Kabushiki Kaisha. Internal combustion engine cylinder head variable swirl siamese type intake port structure, with auxiliary straight passage, pointing at spark plug, leading from mixture intake to downstream end of straight intake port. 4,669,434, 6-2-87, Cl. 123-308.000.

Okumura, Takeshi, to Toyota Jidosha Kabushiki Kaisha. Internal combustion engine cylinder head variable swirl siamese type intake port structure with bypass passage from straight intake passage communicated by gap to helical intake passage. 4,699,104, 10-13-87, Cl. 123-308.000.

Okumura, Takeshi: *See*—
Iwashita, Yoshihiro; and Okumura, Takeshi, 4,671,233, Cl. 123-308.000.
Kanda, Mutsumi; Okumura, Takeshi; and Iwashita, Yoshihiro, 4,700,665, Cl. 123-41.82R.

Okumura, Tokiko: *See*—
Yamaguchi, Youko; Shimizu, Hiroshi; Tsuda, Ichiro; Yano, Masafumi; and Okumura, Tokiko, 4,710,964, Cl. 382-17.000.

Okumura, Toshio: *See*—
Nishio, Hisaharu; Taguchi, Kazuo; Okumura, Toshio; and Ebizawa, Akio, 4,668,477, Cl. 422-98.000.
Taniguchi, Masato; Nishio, Hisaharu; Kawamura, Mitsuyoshi; and Okumura, Toshio, 4,672,933, Cl. 123-270.000.

Okumura, Tsugunori: *See*—
Iwasaki, Tamotsu; Ikoma, Toshiaki; and Okumura, Tsugunori, 4,648,095, Cl. 372-44.000.

Okumura, Tsuguo; Yamagishi, Naomichi; Abe, Kazuharu; Sugiyama, Masayoshi; and Mori, Kenji, to Mitsubishi Monsanto Chemical Co. Process for preparing biaxially drawn polyamide films. 4,698,195, 10-6-87, Cl. 264-235.800.

Okumura, Tsuguo: *See*—
Matsuda, Hitoshi; Okumura, Tsuguo; and Abe, Kazuharu, 4,690,792, Cl. 264-235.800.
Yamagishi, Naomichi; Mori, Kenji; Okumura, Tsuguo; Hiratsuka, Tatsufumi; and Sugiyama, Masayoshi, 4,634,840, Cl. 219-388.000.

Okumura, Yasuo: *See*—
Fujii, Haruki; Ikada, Shoji; Fukuda, Akimitsu; and Okumura, Yasuo, 4,637,840, Cl. 148-6.200.

Okumura, Yasushi: *See*—
Okumura, Shinichi; and Okumura, Yasushi, 4,694,891, Cl. 165-41.000.

Okumura, Yasuyuki; and Hayashi, Kazuhiro, to Nippon Telegraph and Telephone Corp. Polyphase phase lock oscillator. 4,682,327, 7-21-87, Cl. 370-100.000.

Okumura, Yoshiharu: *See*—
Pieters, Wim J. M.; and Okumura, Yoshiharu, 4,638,106, Cl. 585-640.000.

Okumura, Yoshihiro: *See*—
Mori, Masaaki; Sano, Akira; Horiuchi, Yushi; and Okumura, Yoshihiro, 4,640,023, Cl. 34-57.00A.

Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hitoshi; Isogai, Tokio; Saitoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, to Hitachi, Ltd. Process for producing solar cells. 4,643,913, 2-17-87, Cl. 427-75.000.

Okuni, Shinichiro; and Kitazawa, Yoichi, to Bridgestone Tire Company Limited. Pneumatic semi-radial tires for motorcycles. 4,706,725, 11-17-87, Cl. 152-541.000.

Okunishi, Yasuji: *See*—
Yoshioka, Nobuyuki; Okunishi, Yasuji; Miura, Yasuhisa; Mori, Yoshikazu; Kataoka, Yasuki; and Adachi, Eiichi, 4,659,739, Cl. 514-555.000.

Okuno, Akiyasu; and Watanabe, Masakazu, to NGK Spark Plug Co., Ltd. Silicon carbide-graphite composite material and process for producing same. 4,690,909, 9-1-87, Cl. 501-90.000.

Okuno, Akiyasu; Watanabe, Masakazu; and Ikoma, Kazuhiko, to NGK Spark Plug Co., Ltd. Composite layer aluminum nitride base sintered body. 4,695,517, 9-22-87, Cl. 428-698.000.

Okuno, Akiyasu; and Watanabe, Masakazu, to NGK Spark Plug Co., Ltd. Silicon carbide-graphite composite material. 4,701,426, 10-20-87, Cl. 501-90.000.

Okuno, Akiyasu: *See*—
Watanabe, Masakazu; and Okuno, Akiyasu, 4,638,268, Cl. 333-22.00F.
Watanabe, Masakazu; Okuno, Akiyasu; Nozaki, Shunkichi; Matsuo, Yasushi; and Fukuura, Isamu, 4,668,452, Cl. 264-63.000.

Okuno Chemical Industries Co. Ltd.: *See*—
Wada, Masatoshi; and Sakai, Tetsuo, 4,692,662, Cl. 313-493.000.

Okuno, Itaru: *See*—
Hotate, Makoto; Nishikawa, Toshio; Takeuchi, Kobuo; Okuno, Itaru; and Nakazumi, Tadataka, 4,691,677, Cl. 123-399.000.

Okuno, Kohichi: *See*—
Saito, Yasuhisa; Takagishi, Hisao; Watanabe, Katsuya; Okuno, Kohichi; Kenmei, Junichi; and Kamio, Kunimasa, 4,705,833, Cl. 525-504.000.

Okuno, Koichi: *See*—
Nishida, Yuji; Kamiyama, Yoshiyasu; and Okuno, Koichi, 4,640,773, Cl. 210-321.100.

Okuno, Michiharu; and Sugiyama, Tsutomu, to Mitsubishi Denki Kabushiki Kaisha. Tank-type switchgear. 4,652,708, 3-24-87, Cl. 200-146.00R.

Okuno, Osamu: *See*—
Sato, Atsushige; Miura, Ishi; Kumei, Yasuhiro; Okuno, Osamu; Nakano, Tsuyoshi; and Yoshida, Bunsaku, 4,702,765, Cl. 75-0.50B.

Okuno, Shigeru; Torisawa, Yoshihiro; Endo, Mitsuharu; Nakayama, Tetsuroh; Shimosato, Masashi; and Fukushima, Takafumi, to Tokyo Electric Co., Ltd. Ink-dot printer. 4,696,589, 9-29-87, Cl. 400-119.000.

Okuno, Takuo; and Seki, Hiroyuki, to Canon Kabushiki Kaisha. Linear vibration wave motor. 4,672,256, 6-9-87, Cl. 310-323.000.

Okuno, Takuo, to Canon Kabushiki Kaisha. Vibration wave motor. 4,692,672, 9-8-87, Cl. 318-116.000.

Okuno, Takuo: *See*—
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Okuno, Toshimi: *See*—
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Okunuki, Masami: *See*—
Fujimura, Naoto; Sakai, Kiyoshi; and Okunuki, Masami, 4,663,259, Cl. 430-58.000.

Okunuki, Yutaka: *See*—
Yagita, Yoshiaki; Okunuki, Yutaka; Ikeda, Toshihide; and Hyodo, Shoji, 4,650,672, Cl. 424-69.000.

Okura, Eiji, to Diesel Kiki Co., Ltd. Refrigerant level sensor in receiver tank. 4,668,870, 5-26-87, Cl. 250-577.000.

Okura, Eiji: *See*—
Tomita, Itizo; and Okura, Eiji, 4,657,074, Cl. 165-179.000.

Okura Electric Industry Co., Ltd.: *See*—
Okura, Masahiko; and Inayashi, Minoru, 4,637,098, Cl. 24-136.00R.

Okura Industrial Co., Ltd.: *See*—
Kondo, Kazuo; and Maruyama, Satoshi, 4,687,615, Cl. 264-557.000.
Kondo, Kazuo; Ishiguro, Nobuya; and Tada, Teruo, 4,695,491, Cl. 428-35.000.

Okura, Masahiko; and Inayashi, Minoru, to Okura Electric Industry Co., Ltd. Shim used for cable clamp. 4,637,098, 1-20-87, Cl. 24-136.00R.

Okura, Masahiko. Hook device for telephone wire clamps. 4,676,470, 6-30-87, Cl. 248-341.000.

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Okusa, Akira: *See*—
Kurita, Akitsugu; Maruyama, Kazou; Okusa, Akira; and Hayashi, Haruo, 4,656,221, Cl. 524-731.000.

Okushima, Hiromi; Narimatsu, Akihiro; Kobayashi, Makio; Furuya, Rikizo; and Kitada, Yoshimi, to Mitsubishi Chemical Industries Limited. Pyridazinone derivatives and salts thereof as cardiac stimulants. 4,661,484, 4-28-87, Cl. 514-242.000.

Okutani, Tetsuya: *See*—
Inoue, Keizo; Nomura, Hiroaki; and Okutani, Tetsuya, 4,675,430, Cl. 558-172.000.
Nojima, Shoshichi; Nomura, Hiroaki; and Okutani, Tetsuya, 4,710,579, Cl. 558-169.000.

Okutome, Toshiyuki: *See*—
Fujii, Setsuro; Nakayama, Toyoo; Nunomura, Shigeki; Matsui, Ryoji; Watanabe, Shin-ichi; Sudo, Kimio; Okutome, Toshiyuki; Kurumi, Masateru; Sakurai, Yojiro; and Aoyama, Takuo, 4,634,783, Cl. 549-475.000.

Okutsu, Eiichi; and Hirano, Mitsunori, to Fuji Photo Film Co., Ltd. Method for formation of high contrast negative images. 4,668,605, 5-26-87, Cl. 430-267.000.

Okutsu, Hideo; Mikami, Koushirou; Yonezawa, Kazuyoshi; and Ichikawa, Kuniharu, to Matsushita Electric Works, Ltd. Portable hand-held electric hair dryer with a retractable hand grip. 4,701,595, 10-20-87, Cl. 219-364.000.

Okutsu, Masaru: *See*—
Yasunami, Masabumi; Takase, Kahei; Shinji, Akira; Mimura, Toru; Torii, Kunio; Kobayashi, Takaaki; Okutsu, Masaru; and Meguro, Takashi, 4,656,194, Cl. 514-693.000.

Okutsu, Toshimitu: *See*—
Miyoshi, Takahito; Okutsu, Toshimitu; and Fujiyama, Masaaki, 4,687,706, Cl. 428-330.000.

Okutu, Toshimitu: *See*—
Miyoshi, Takahito; Okutu, Toshimitu; Utumi, Masahiro; Fujiyama, Masaaki; and Aoki, Nobuo, 4,670,333, Cl. 428-323.000.
Miyoshi, Takahito; Fujiyama, Masaaki; Okutu, Toshimitu; Masuyama, Kenichi; and Nasu, Norio, 4,678,697, Cl. 428-141.000.
Miyoshi, Takahito; Aoki, Nobuo; Yoneyama, Takashi; Kasuga, Akira; Okutu, Toshimitu; Fujiyama, Masaaki; and Okuzawa, Yasutoshi, 4,696,859, Cl. 428-323.000.
Yamaguchi, Nobutaka; Iida, Shinobu; Nasu, Norio; Ryoke, Katsumi; Okutu, Toshimitu; and Masuyama, Kenichi, 4,647,501, Cl. 428-323.000.
Yamaguchi, Nobutaka; Miyoshi, Takahito; Okutu, Toshimitu; Hibino, Noburo; Tadokoro, Eiichi; and Fujiyama, Masaaki, 4,650,720, Cl. 428-480.000.

Okuwaki, Shigeru: *See*—
Okawa, Susumu; Ogino, Izumi; and Okuwaki, Shigeru, 4,645,477, Cl. 474-201.000.
Okawa, Susumu; Jufuku, Yasunobu; Okuwaki, Shigeru; Kondou, Takayoshi; Endo, Toshiya; and Nakata, Shigenori, 4,655,734, Cl. 474-242.000.

Okuwaki, Toyoji: *See*—
Hirano, Yoshiyuki; Seo, Yosuke; Okuwaki, Toyoji; Kato, Katsuhiko; and Tamura, Takashi, 4,651,242, Cl. 360-103.000.

Okuya, Hiroaki: *See*—
Fukuda, Tamotsu; Shigeta, Shiro; Okuya, Hiroaki; Kuroiwa, Yasuyuki; and Sudo, Tadashi, 4,702,910, Cl. 424-92.000.

Okuya, Shigetami: *See*—
Fujino, Kiyohiko; Namazue, Hirotoshi; Okuya, Shigetami; Tsutsumi, Shunsaku; Kobayashi, Satoru; and Shimizu, Keiichi, 4,700,186, Cl. 340-825.720.

Okuya, Tsutae, to Alps Electric Co., Ltd. Click mechanism of slide volume control. 4,698,613, 10-6-87, Cl. 338-176.000.

Okuyama, Gen: *See*—
Degawa, Toru; Fujiwara, Kozo; Hashimoto, Akio; Uchida, Seiju; Okuyama, Gen; and Matsui, Susumu, 4,695,427, Cl. 420-129.000.
Degawa, Toru; Okuyama, Gen; Hashimoto, Akio; Uchida, Seiju; Fujiwara, Kouzou; Ebata, Makoto; Satou, Takashi; and Ototani, Tohei, 4,710,481, Cl. 501-123.000.

Okuyama, Hideo: *See*—
Uda, Masahiro; Ohno, Satoru; and Okuyama, Hideo, 4,642,207, Cl. 264-10.000.

Okuyama, Hiroo: *See*—
Tsunoda, Katsuya; and Okuyama, Hiroo, 4,668,004, Cl. 296-70.00.

Okuyama, Katsumi; and Mizutani, Hiroyasu, to Mitsubishi Petrochemical Co., Ltd. Process for the production of air-permeable film. 4,704,238, 11-3-87, Cl. 264-41.000.

Okuyama, Kenji: *See*—
Abura, Yoshinori; Tsuji, Eiji; Okuyama, Kenji; and Ochi, Shuhei, 4,641,010, Cl. 219-222.000.

Okuyama, Kousuke; Suzuki, Norio; Meguro, Satoshi; and Nagasawa, Kouichi, to Hitachi, Ltd. Process for fabricating semiconductor integrated circuit device. 4,637,124, 1-20-87, Cl. 29-571.000.

Okuyama, Kousuke; Komori, Kazuhiro; and Katto, Hisao, to Hitachi, Ltd. Semiconductor memory device. 4,652,897, 3-24-87, Cl. 357-23.500.

Okuyama, Kousuke: *See*—
Komori, Kazuhiro; Kuroda, Kenichi; and Okuyama, Kousuke, 4,697,198, Cl. 357-23.300.

Okuyama, Masahiko: *See*—
Kondo, Kazuo; and Okuyama, Masahiko, 4,634,634, Cl. 428-432.000.

Okuyama, Masayoshi; Kido, Yukio; Mimura, Isao; and Nakajima, Etsuro, to Casio Computer Co., Ltd. Electronic timepiece including slidable digital display sections. 4,697,931, 10-6-87, Cl. 368-223.000.

Okuyama, Noboru: *See*—
Ishiyama, Kazuo; Yoshida, Masashi; Suzuki, Isao; Kudo, Ichiro; Otaki, Akira; and Okuyama, Noboru, 4,671,499, Cl. 266-275.000.

Okuyama, Shigeaki: *See*—
Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kurowa, Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara, Osami; Yoshida, Jituo; and Kobayashi, Mitsugu, 4,671,376, Cl. 180-249.000.

Okuyama, Shingo: *See*—
Sakamoto, Yukio; Madokoro, Shinichi; and Okuyama, Shingo, 4,700,440, Cl. 29-25.420.

Okuyama, Shinya: *See*—
Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.

Okuyama, Takahiro; Toki, Susumu; and Tanabe, Keiji, to Honda Giken Kogyo Kabushiki Kaisha; and Tokai TRW and Co., Ltd. Supporting structure for rocker arms for engine valves. 4,658,770, 4-21-87, Cl. 123-90.410.

Okuyama, Takashi: *See*—
Sakurai, Katukiyo; Ueno, Yoshio; and Okuyama, Takashi, 4,716,224, Cl. 536-55.100.

Okuyama, Tohru: *See*—
Shimizu, Goro; Hayashi, Yoshimi; Hasegawa, Hajime; Koga, Taiji; Takei, Atsuo; Okuyama, Tohru; and Torigoe, Hideo, 4,666,946, Cl. 521-114.000.

Okuyama, Toru: *See*—
Shimomura, Kenji; Kouketsu, Shigeaki; Okuyama, Toru; and Sato, Take, 4,696,952, Cl. 521-107.000.

Okuyama, Toshiaki; Matsui, Takayuki; Fujimoto, Noboru; and Kubota, Yuzuru, to Hitachi, Ltd. Method of controlling inverter-driven induction motor. 4,680,526, 7-14-87, Cl. 318-802.000.

Okuyama, Yasuo: *See*—
Noshi, Shinji; and Okuyama, Yasuo, 4,703,900, Cl. 242-35.50R.

Okuyama, Yoshiyuki: *See*—
Fukushima, Tadashi; Kobayashi, Yoshiki; Okuyama, Yoshiyuki; Katoh, Takeshi; and Kashioka, Seiji, 4,665,556, Cl. 382-41.000.

Okuyama, Yuji; Kishi, Kenichi; Tuzita, Kenzi; and Ban, Tsuyako, to Konishiroku Photo Industry Co., Ltd. Insulated magnet toner. 4,654,287, 3-31-87, Cl. 430-106.600.

Okuyama, Yuji: *See*—
Izumiya, Shunzo; Okuyama, Yuji; and Ito, Masaya, 4,689,457, Cl. 219-69.00W.

Okuyama, Yuki: *See*—
Kishi, Ken-ichi; Tuzita, Kenzi; Daidoji, Tuneo; Okuyama, Yuki; and Kimura, Kiyoshi, 4,675,268, Cl. 430-126.000.

Okuzawa, Yasutoshi, to Fuji Photo Film Co., Ltd. Flexible magnetic disk having an embossed circular hole. 4,675,768, 6-23-87, Cl. 360-133.000.

Okuzawa, Yasutoshi: *See*—
Kato, Mikihiko; Komine, Shigeo; Morita, Kazuhiko; and Okuzawa, Yasutoshi, 4,647,473, Cl. 427-44.000.
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Miyoshi, Takahito; Aoki, Nobuo; Yoneyama, Takashi; Kasuga, Akira; Okutu, Toshimitu; Fujiyama, Masaaki; and Okuzawa, Yasutoshi, 4,696,859, Cl. 428-323.000.

Okuzawa, Yoshiyuki: *See*—
Sugimoto, Takayuki; Okuzawa, Yoshiyuki; and Suzuki, Nobuo, 4,644,756, Cl. 62-160.000.

Okuzono, Shuichi; Tanaka, Tetsuo; Oda, Yasuhiro; Shintani, Takashi; and Emura, Noriaki, to Toyo Soda Manufacturing Co., Ltd. Alcoholic solution of sulphonic acid-containing copolymer dyed with basic dye. 4,713,083, 12-15-87, Cl. 8-557.000.

Okuzono, Shuichi: *See*—
Sakanaka, Yasuhiro; and Okuzono, Shuichi, 4,639,308, Cl. 528-486.000.

nd A/S: *See*—
d, Olaf, Jr., 4,707,255, Cl. 210-222.000.
es. Complete development of Basidiomycetes Agaricales
s, 4,646,466, 3-3-87, Cl. 47-1.100.
id A.: *See*—
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alter K.: *See*—
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furnace. 4,636,127, 1-13-87, Cl. 414-158.000.
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, 3-24-87, Cl. 384-99.000.
Raul: *See*—
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aft. Powder varnish compositions containing carboxy curing
,695,613, 9-22-87, Cl. 525-533.000.
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aft. Positioning device for a magnetic disk memory.
, 8-25-87, Cl. 360-104.000.
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Shun-ichiro; and Ueda, Ryuzo, to Sloan-Kettering Institute
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d J.: *See*—
r, Neil H.; Whitmore, Willet F.; and Old, Lloyd J., 4,713,352,
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Richard J.; Thomson, Timothy M.; Houghton, Alan N.;
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tgen, Herbert F., 4,678,747, Cl. 435-7.000.
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yd J.; and Cordon-Cardo, Carlos, 4,666,845, Cl. 435-240.000.
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J., 4,660,686, Cl. 188-280.000.
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Oldershaw, Reginald W.; and Wagner, Steven D., to Ampex Corporation. Chroma-phase word encode/decode in a video processing system. 4,716,454, 12-29-87, Cl. 358-18.000.
Oldewurtel, Otto: *See*—
Kaufmann, Karl-Ernst; Saeftel, Josef-Paul; Bitsch, Harald; and Oldewurtel, Otto, 4,634,078, Cl. 242-158.00R.
Oldfelt, Sven; and Fridolfsson, Tage, to Oy Wartsila AB. Land drainage system. 4,704,047, 11-3-87, Cl. 405-37.000.
Oldfelt, Sven; and Soderstrom, Sigvard, to Oy Wartsila Ab. Vacuum toilet system. 4,713,847, 12-22-87, Cl. 4-316.000.
Oldham, Keith: *See*—
Yellin, Tobias O.; Gilman, David J.; Edwards, Philip N.; Large, Michael S.; Jones, Derrick F.; and Oldham, Keith, 4,657,908, Cl. 514-245.000.
Oldham, Robert W. Building construction and method. 4,649,677, 3-17-87, Cl. 52-90.000.
Oldham, Ronald C.; and Jones, Stephen R., to Standard Telephones and Cables, Public Limited Company. Optical fiber cable and method of jointing two cable elements. 4,657,343, 4-14-87, Cl. 350-96.230.
Oldham, Susan L., to Hughes Aircraft Company. Method of fabricating composite or encapsulated articles. 4,681,718, 7-21-87, Cl. 264-102.000.
Olds, Keith A., to Motorola, Inc. Frequency locked loop for the temperature compensation of phase coded surface acoustic wave devices. 4,644,297, 2-17-87, Cl. 331-17.000.
Olds, Keith A.; and Ward, Richard L., to Motorola, Inc. Transponder output amplitude modulation control. 4,667,197, 5-19-87, Cl. 342-51.000.
Olds, Richard N.: *See*—
Leary, David F.; and Olds, Richard N., 4,650,576, Cl. 210-184.000.
O'Leary, Arthur J.: *See*—
McDonald, Hamish; O'Leary, Arthur J.; and Orbell, William G., 4,666,436, Cl. 604-198.000.
O'Leary, Kevin: *See*—
Fenn, Robert W., III; Pless, Emory J.; Harris, Richard L.; and O'Leary, Kevin, 4,701,250, Cl. 204-283.000.
O'Leary, Kevin J., to Eastman Kodak Company. Method and apparatus for applying liquid toner to a recording member. 4,648,704, 3-10-87, Cl. 355-10.000.
O'Leary, Raymond P., to S&C Electric Company. Pre-insertion inductor arrangement. 4,695,918, 9-22-87, Cl. 361-58.000.
O'Leary, Raymond P.: *See*—
Chabala, Leonard V.; Haarsma, John; O'Leary, Raymond P.; Roman, Christopher D.; and Tobin, Thomas J., 4,690,780, Cl. 252-572.000.
O'Leary, Richard P., to Betz Laboratories, Inc. Computerized system for feeding chemicals into water treatment system. 4,648,043, 3-3-87, Cl. 364-510.000.
O'Leary, Richard P.; and Lawhon, Davie B., to Betz Laboratories, Inc. Automated systems for introducing chemicals into water or other liquid treatment systems. 4,659,459, 4-21-87, Cl. 210-87.000.
O'Leary, Walter E.: *See*—
Billingsley, Robert H., Jr.; Jantzen, Steven L.; O'Leary, Walter E.; and Krug, John A., 4,696,238, Cl. 105-248.000.
Olechovsky, David F.: *See*—
Castner, Raymond P.; Olechovsky, David F.; Brown, Philip S.; Sinha, Susanta; Keller, Harold T.; and Cheng, Wenche W., 4,649,493, Cl. 364-472.000.
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Chen, Nai Y.; Degnan, Thomas F., Jr.; Leiby, Susan M.; Oleck, Stephen M.; and Pelrine, Bruce P., 4,711,710, Cl. 208-111.000.
Oleff, Werner; and Pape, Fritz G., to Oleff, Werner; and ASV Stubbe GmbH & Co KG, a part interest. Injection molded synthetic wheel. 4,639,046, 1-27-87, Cl. 301-63.0PW.
Olego, Diego J., to Stauffer Chemical Company. Use of pnictide films for wave-guiding in opto-electronic devices. 4,678,266, 7-7-87, Cl. 350-96.120.
Olego, Diego J.: *See*—
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Olekna, David J.: *See*—
Hall, Shelby J.; Olekna, David J.; and Davies, Donald M., Jr., 4,698,311, Cl. 436-10.000.
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Williams, Derrick G.; and Bushnell, John J., 4,660,687, Cl. 188-287.000.

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Prieels, Jean-Paul; and Peiffer, Robert, 4,667,018, Cl. 530-417.000.
Olesen, Karl R. Joist drill. 4,669,929, 6-2-87, Cl. 408-100.000.
Olesen, Ole L., to United Technologies Corporation. Radiating sleeve for catalytic reaction apparatus. 4,661,323, 4-28-87, Cl. 422-197.000.
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Olesen, William A.: *See*—
Johnson, Peter A.; and Olesen, William A., 4,635,871, Cl. 242-68.300.
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DeLuca, Michael A.; McCormack, John F.; and Oleske, Peter J., 4,666,744, Cl. 427-304.000.
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Takahashi, Naoyuki, 4,714,328, Cl. 350-521.000.
Takahashi, Susumu, 4,655,557, Cl. 350-445.000.
Takahashi, Susumu, 4,671,630, Cl. 350-574.000.
Takahashi, Susumu, 4,676,606, Cl. 350-463.000.
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Takamura, Koji; and Kaiya, Haruhiko, 4,677,471, Cl. 358-98.000.
Takamura, Koji; Hosoya, Takamasa; and Kobayashi, Kazunari, 4,697,894, Cl. 350-574.000.
Takase, Hiroshi; Imaizumi, Masaki; and Fujii, Toru, 4,668,054, Cl. 350-422.000.
Takase, Hiroshi; Imaizumi, Masaki; and Fujii, Toru, 4,715,693, Cl. 350-422.000.
Takayama, Syuichi, 4,691,706, Cl. 128-328.000.
Takeuchi, Toyoaki; Ohshima, Ken; Kenjyo, Hideyuki; Ikeda, Yoshiaki; and Sakamoto, Masaharu, 4,683,560, Cl. 369-45.000.
Toda, Masato; and Yabe, Hisao, 4,708,126, Cl. 128-6.000.
Togino, Takayosi; Kobayashi, Yuko; and Yonekubo, Ken, 4,682,859, Cl. 350-414.000.
Tsukagoshi, Tsuyoshi, 4,708,137, Cl. 128-303.150.
Ushikubo, Masao, 4,710,355, Cl. 422-100.000.
Wakatake, Koichi, 4,647,432, Cl. 422-64.000.
Yabe, Hisao, 4,641,635, Cl. 128-6.000.
Yabe, Hisao, 4,654,701, Cl. 358-98.000.
Yabe, Hisao, 4,667,656, Cl. 128-6.000.
Yamada, Hidetoshi, 4,644,402, Cl. 358-213.000.
Yamada, Noboru; and Minegishi, Hitoshi, 4,662,717, Cl. 350-245.000.
Yamamoto, Hidehiko; and Kaneko, Nobutaka, 4,666,577, Cl. 204-183.300.
Yamamoto, Hidehiko, 4,666,578, Cl. 204-183.300.
Yamamoto, Tsutomu, 4,706,653, Cl. 128-4.000.
Yamanashi, Takanori, 4,709,998, Cl. 350-454.000.
Yamashita, Nobuo; and Takahashi, Susumu, 4,684,224, Cl. 350-445.000.
Yoda, Yoshiro, 4,706,236, Cl. 369-59.000.
Yokota, Akira, 4,639,837, Cl. 362-32.000.
Yokota, Akira, 4,656,508, Cl. 358-98.000.
Yoshikawa, Shoji; and Funada, Saburo, 4,651,314, Cl. 369-45.000.
Yoshikawa, Shozi, 4,713,819, Cl. 372-9.000.
Yunoki, Yutaka; Kimura, Kenji; Kato, Akira; and Imamura, Tatsuo, 4,642,711, Cl. 360-84.000.
Yunoki, Yutaka; and Kimura, Kenji, 4,651,227, Cl. 358-310.000.
Yunoki, Yutaka; and Nagasaki, Tatsuo, 4,686,964, Cl. 128-4.000.
Yusa, Atsushi, 4,683,125, Cl. 423-219.000.
Yusa, Atsushi; Nishizawa, Jun-ichi; Suzuki, Sohbe; and Tamamushi, Takashige, 4,686,555, Cl. 357-30.000.

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Korth, Knut; and Hluchy, Heinz, 4,633,860, Cl. 128-305.000.
Valli, Bruno, 4,644,950, Cl. 128-303.150.

Om Electronics Systems Corp.: *See*—
Ahuja, Om, 4,710,949, Cl. 379-26.000.

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Koizumi, Haruyuki; and Omae, Koichi, 4,658,104, Cl. 200-159.00B.
Koizumi, Haruyuki; and Omae, Koichi, 4,678,880, Cl. 200-340.000.

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Omaha Cold Storage Terminals: *See*—
Mattson, Glenn D., 4,700,546, Cl. 62-64.000.

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Taniguchi, Nobuyuki; Omaki, Takanobu; Ishikawa, Norio; Nakamasaaki; Ishida, Tokuji; and Hamada, Masataka, 4,702,584, Cl. 354-400.000.

O'Malley, Austin S.: *See*—
Yevak, Harold M., Jr.; Johnson, Larry K.; and O'Malley, Austin S., 4,645,278, Cl. 339-17.00T.

vin P.; and Thomas, Richard K., to John Zink Company. ble battery operated appliance system. 4,647,831, 3-3-87, 00.

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er, Kenneth L., 4,637,291, Cl. 86-23.000.
er, Kenneth L., 4,653,157, Cl. 29-1.320.
in, Donald J., 4,643,065, Cl. 83-830.000.
shi: *See*—
Haruo; and Omata, Hiroshi, 4,716,063, Cl. 428-65.000.
yasu: *See*—
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Yoshiyuki; Tsuda, Hisanori; Sano, Masafumi; Omata, Sato- akasu, Katsuji; and Hirai, Yutaka, 4,645,684, Cl. 427-38.000.
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Kenji; Kaminaka, Nobuyuki; Nomura, Noboru; and Omata, , 4,672,496, Cl. 360-126.000.
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Tsutomu; Omatsu, Hideo; Shiraishi, Takao; and Kawakami, aki, 4,699,239, Cl. 180-315.000.
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Tory. Rear seat automobile sun visor-mirror assembly. , 11-3-87, Cl. 296-97.00R.
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Thomas R., to Hughes Aircraft Company. Nonlinear delay oding/decoding arrangements. 4,642,582, 2-10-87, Cl .
Thomas R.; and Lind, Richard C., to Hughes Aircraft Com- pparatus and method for spatial intensity threshold detection. , 12-29-87, Cl. 350-354.000.
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Alberto; Desarzens, Pierre; and Deglon, Philippe. 1,322, Cl. 315-306.000.
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Omi, Fumiya: *See*—
Nakamura, Hitoshi; Machida, Hazime; Tanaka, Motoharu; Watada, Atsuyuki; Omi, Fumiya; and Koinuma, Nobuyuki, 4,670,322, Cl. 428-172.000.
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Nakamura, Hitoshi; Kaneko, Yujiro; Sawada, Yasuo; Machida, Hajime; Omi, Fumiya; and Watada, Atsuyuki, 4,690,861, Cl. 428-623.000.
OMI International Corporation: *See*—
Combs, Daniel J.; Martin, Sylvia; Tremmel, Robert A.; Snell, Kenneth D.; Kamitani, Masaaki; Kimizuka, Ryoichi; and Koga, Takaaki, 4,699,696, Cl. 204-44.200.
Lovie, John R.; Somers, Gerardus A.; and Hendriks, Jan J. M., 4,715,935, Cl. 204-44.600.
Shyu, Jieh-Hwa, 4,687,554, Cl. 204-23.000.
Omi, Shinzo: *See*—
Suka, Motoshi; and Omi, Shinzo, 4,711,938, Cl. 526-88.000.
Omichi, Kaoru: *See*—
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Omicioli, Florio F. Ventilated neck brace and related structures. 4,702,233, 10-27-87, Cl. 128-75.000.
Omico Plastics, Inc.: *See*—
Williams, W. Jerry, 4,668,567, Cl. 428-319.900.
Omid, Ahmad; and Bassi, Pawan K., to Chevron Research Company. Chemical tobacco sucker control. 4,701,205, 10-20-87, Cl. 71-78.000.
Omika, Hiroyoshi: *See*—
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Omilusik, Dale. Spring boot. 4,660,299, 4-28-87, Cl. 36.7.800.
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de Koning, Adrianus J.; Loontjens, Jacobus A.; Mostert, Hubertus A. M.; and Omloo, Hubertus A. A., 4,684,706, Cl. 526-262.000.
Omlor, Richard J.: *See*—
Markley, Theodore J.; Omlor, Richard J.; Vatter, William K.; and Sobottke, Mark D., 4,676,598, Cl. 350-171.000.
Ommori, Shozo; and Oishi, Kengo, to Fuji Photo Film Co., Ltd. Magnetic disk cartridge. 4,694,370, 9-15-87, Cl. 360-133.000.
Omni Concepts, Inc.: *See*—
Townsley, Peter A., 4,655,451, Cl. 273-32.00H.
Omni Engineering: *See*—
Glogowski, Stefan W., 4,689,749, Cl. 364-468.000.
Omni-Flow, Inc.: *See*—
Epstein, Paul; Petschek, Harry; LaWhite, Eric; Strohl, Clair; Coyne, Henry; Kaleskas, Edward; and Adaniya, George, 4,696,671, Cl. 604-67.000.
Omni Signal, Inc.: *See*—
Husmann, Robert J.; and Healy, Lawrence R., Jr., 4,703,313, Cl. 340-550.000.
Omni Spray, Inc.: *See*—
Patrick, Keith H.; and Murchison, Charles W., 4,709,860, Cl. 239-654.000.
Omnichem S.A.: *See*—
Trouet, Andre B. L.; Hannart, Jean A. A. J.; and Rao, Kandukuri S. B., 4,639,456, Cl. 514-283.000.
Omniglass Ltd.: *See*—
Davies, Lawrence W., 4,652,472, Cl. 428-34.000.
Omnimax Energy Corporation: *See*—
Shakun, Wallace, 4,640,977, Cl. 136-211.000.
Omniprise, Inc.: *See*—
Gear, Gary; and Wiseman, Steven S., 4,672,271, Cl. 315-117.000.
Omniquest, Inc.: *See*—
Kornylak, Andrew T., 4,681,203, Cl. 193-35.00R.
Omnis Surgical Inc.: *See*—
Leonard, Ronald J., 4,670,152, Cl. 210-651.000.
Omnitronics Research Corporation: *See*—
Williamson, John D., 4,658,237, Cl. 340-63.000.
Omnium de Traitements et de Valorisation (O.T.V.): *See*—
Levasseur, Jean-Pierre, 4,692,167, Cl. 44-2.000.
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Hayes, Peter F., 4,703,156, Cl. 219-136.000.
Omoda, Koichiro; Nagashima, Shigeo; and Torii, Shunichi, to Hitachi, Ltd. Vector data processor. 4,651,274, 3-17-87, Cl. 364-200.000.
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Omoda, Koichiro; and Nagashima, Shigeo, to Hitachi, Ltd. Vector processor. 4,677,547, 6-30-87, Cl. 364-200.000.
Omoda, Koichiro; and Nagashima, Shigeo, to Hitachi, Ltd. Storage control apparatus. 4,680,730, 7-14-87, Cl. 364-900.000.
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Omodeo Zorini, Luigi, to Comez S.p.A. Thread guide rail for crochet galloon machines. 4,683,727, 8-4-87, Cl. 66-207.000.
Omori, Hideki; Asada, Kazuhiko; and Kominami, Hideyuki, to Matsushita Electric Industrial Co., Ltd. Induction heating apparatus using

inductive coupling for current regulation. 4,652,713, 3-24-87, Cl. 219-10.770.
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Omori, Kenji: *See*—
Teranishi, Masayuki; Suzuki, Koji; Kase, Hiroshi; Kitamura, Shigeto; Shuto, Katsuichi; and Omori, Kenji, 4,657,916, Cl. 514-312.000.
Omori, Kiyoshi, to Nissan Motor Co., Ltd. Automotive window and molding assembly having a device for mounting a corner joint. 4,712,826, 12-15-87, Cl. 296-93.000.
Omori, Kiyoshi: *See*—
Kawada, Hideaki; Ike, Kazuo; Nemoto, Tsuneo; and Omori, Kiyoshi, 4,703,384, Cl. 360-132.000.
Omori, Mitsugu: *See*—
Nakagawa, Shinichi; Nakagawa, Tsuneo; Amano, Toshihiko; Omori, Mitsugu; Yamaguchi, Sadaatsu; and Asano, Kozo, 4,703,095, Cl. 526-247.000.
Omori, Norio: *See*—
Abe, Tomoaki; Fujisawa, Hideya; Omori, Norio; Kinugawa, Masumi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Taiki; and Yamada, Toshitaka, 4,713,765, Cl. 364-431.050.
Akiyama, Susumu; Ito, Katsunori; Hirabayashi, Yuzi; Kinugawa, Masumi; and Omori, Norio, 4,671,242, Cl. 123-486.000.
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Omori, Shigeru; Watanabe, Masatsugu; and Oboshi, Fumio, to Dowa Iron Powder Co., Ltd. Blast material for mechanical plating and continuous mechanical plating using the same. 4,655,832, 4-7-87, Cl. 106-1.180.
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Omori, Shinji: *See*—
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Kojima, Yutaka; Omori, Takashi; and Nagai, Koichi, 4,650,714, Cl. 428-341.000.
Leng, Svay; Saitoh, Hiroyuki; Inui, Toshiharu; Koizumi, Norihiko; Moriguchi, Haruhiko; Omori, Takashi; Kurata, Masami; and Katoh, Yasuo, 4,638,372, Cl. 358-296.000.
Saitoh, Hiroyuki; Kurata, Masami; and Omori, Takashi, 4,636,081, Cl. 356-402.000.
Omori, Takuro: *See*—
Yanagiuchi, Shigenobu; and Omori, Takuro, 4,642,761, Cl. 364-200.000.
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Kato, Toshiji; and Omori, Tatsuya, 4,709,392, Cl. 381-193.000.
Omori, Tomohiro: *See*—
Abe, Yoshio; Okano, Tetsuo; Omori, Tomohiro; and Kawamoto, Minoru, 4,693,225, Cl. 123-568.000.
Omori, Toshiaki, to Tokyo Gas Company Limited. Heat transport method. 4,645,125, 2-24-87, Cl. 237-12.000.
Omori, Toshiyuki: *See*—
Tabata, Yusuke; Hayasaka, Eiji; Hashimoto, Toshitomo; Horima, Hiroaki; Omori, Toshiyuki; and Kurosawa, Akira, 4,662,712, Cl. 350-96.230.
Omote, Shigeo: *See*—
Hira, Misao; Yamazaki, Hajime; and Omote, Shigeo, 4,654,382, Cl. 523-457.000.
Omote, Tatsuyuki; Yoshida, Tomiharu; Shimizu, Isamu; and Metoki, Kichinori, to Hitachi, Ltd. Method of cutting high-activity solid waste. 4,643,845, 2-17-87, Cl. 252-626.000.
Omoto, Noriaki, to Matsushita Electric Industrial Co., Ltd. A.F.C. system for broad-band FM receiver. 4,709,406, 11-24-87, Cl. 455-208.000.
Omoto, Setsuo: *See*—
Onizuka, Masakazu; Tatani, Atsushi; Hamada, Takayoshi; and Omoto, Setsuo, 4,683,210, Cl. 436-50.000.
Shinoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Omoto, Setsuo; and Okino, Susumu, 4,675,167, Cl. 423-242.000.
Omron Tateisi Electronics Co.: *See*—
Fukamizu, Hiroshi; Nakano, Masaji; Iba, Kunio; Yamasaki, Taro; and Sano, Kenji, 4,690,553, Cl. 356-51.000.
Fukui, Ryoichi; and Minamikawa, Susumu, 4,692,034, Cl.
Hatakenaka, Tsukasa, 4,688,949, Cl. 374-183.000.
Hayashi, Mitsuji; Niwa, Takashi; Hayakawa, Akihiko; Ito, Hideyuki; Kazusaka, Shoji; and Konishi, Keisuke, 4,701,582, Cl. 200-61.420.
Hiraishi, Tomiyasu, 4,645,914, Cl. 235-380.000.
Hiraishi, Tomiyasu, 4,650,976, Cl. 235-379.000.
Hirano, Masao; Takaoka, Motoaki; and Shimura, Mikihiko, 4,679,157, Cl. 364-557.000.
Hirano, Masao; Kato, Mitsutaka; Yasuda, Hirohiko; and Hinoda, Seisuke, 4,710,033, Cl. 374-161.000.
Hisano, Atushi; Saka, Kazuhiko; and Tsukiyama, Noriyuki, 4,654,872, Cl. 382-1.000.
Hisano, Atushi; Yamaguchi, Yoshinori; Masaki, Toshimichi; Saka, Kazuhiko; Nakatsuka, Nobuo; and Kato, Mitsutaka, 4,703,363, Cl. 358-60.000.
Ikeda, Toshio; Sakamoto, Tamaki; and Masuo, Yoshiko, 4,634,292, Cl. 374-109.000.
Imai, Yoshikiyo; and Yasuoka, Yuji, 4,673,508, Cl. 335-79.000.
Inoue, Tadashi; and Matsuura, Tosimi, 4,703,414, Cl. 364-147.00.
Ishigure, Kazuaki, 4,638,746, Cl. 109-52.000.
Itsuki, Fumiaki; and Oku, Seiji, 4,638,154, Cl. 250-227.000.
Kai, Isao, 4,677,280, Cl. 219-385.000.
Kai, Isao, 4,697,070, Cl. 219-521.000.
Kamiya, Fumio; Sodera, Hisatoshi; Ueda, Kenji; Imazu, Kensuke; and Tomioka, Hidehiro, 4,644,298, Cl. 331-65.000.
Kitao, Zenichi; and Koizumi, Haruyuki, 4,647,742, Cl. 219-159.00A.
Kiyono, Yasuhiro; and Takeyama, Yutaka, 4,691,116, Cl. 310.00R.
Kiyono, Yasuhiro; and Takeyama, Yutaka, 4,705,959, Cl. 307-91
Koizumi, Haruyuki; and Omae, Koichi, 4,658,104, Cl. 200-159.0
Koizumi, Haruyuki; and Omae, Koichi, 4,678,880, Cl. 200-340.0
Maenishi, Kozo; and Nakanishi, Youichi, 4,647,885, Cl. 335-78
Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; Sato, Shigenobu, 4,656,733, Cl. 29-602.00R.
Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; Sato, Shigenobu, 4,658,226, Cl. 335-127.000.
Maenishi, Kozo; and Nakanishi, Youichi, 4,692,728, 335-192.000.
Masaki, Akio; Moriyasu, Yoshio; Ueda, Kenji; and Miyamoto, Kiyoshi, 4,654,471, Cl. 174-50.000.
Masaki, Akio; Moriyasu, Yoshio; Ueda, Kenji; Miyamoto, Kiyoshi; and Matsuoka, Yasushi, 4,704,524, Cl. 250-239.000.
Matsumoto, Hiromichi; and Hashimoto, Ritsuo, 4,639,889, 364-900.000.
Matsumoto, Hiromichi, 4,683,372, Cl. 235-492.000.
Mikami, Kazuo; Nishimura, Masahiro; Tsukiyama, Noriyuki; Hinoda, Seisuke, 4,653,014, Cl. 364-526.000.
Mikami, Kazuo; and Watanabe, Taro, 4,666,236, Cl. 350-96.15
Mikami, Kazuo; Yamashita, Tsukasa; and Katoh, Mitsuo, 4,712,854, Cl. 350-96.120.
Miyamoto, Kiyoshi, 4,638,262, Cl. 331-65.000.
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Nagata, Masanori; Yoshida, Shinya; and Yamashita, Su 4,677,657, Cl. 379-63.000.
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Nakanishi, Tomoyuki, 4,699,373, Cl. 271-258.000.
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Ohba, Masatoshi; Sato, Ryuichi; and Taniguchi, Tsutomu, 4,654,555, Cl. 310-332.000.
Ohba, Masatoshi; Sato, Ryuichi; and Taniguchi, Tsu 4,658,155, Cl. 307-154.000.
Ohmae, Kenichi; Tateisi, Kazuma; Shinohara, Yoshitsugu; Ueno, Nobuyuki, 4,673,802, Cl. 235-379.000.
Oimura, Katsuhiko; Misumi, Haruo; Ogawa, Hiroshi; and N Naotake, 4,675,518, Cl. 250-205.000.
Rake, Heinrich; Hoffmann, Ulrich; Muller, Ulrich; Bredder Rudolf; and Blumbach, Rainer, 4,639,853, Cl. 364-149.000
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156-384.000.

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Ueda, Kenji, 4,713,602, Cl. 323-354.000.
Ueno, Fumio; Yamakawa, Takeshi; and Slurai, Yuji, 4,694,418, Cl. 364-807.000.
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Yamakawa, Takeshi, 4,716,540, Cl. 364-807.000.
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Chen, Augustin T.; and Onder, Kemal, 4,649,180, Cl. 525-462.000.
Nelb, Robert G., II; Onder, Kemal; Rausch, Karl W.; and Vanderlip, John A., 4,672,094, Cl. 525-440.000.
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Ondrik, Michael A., to S.I.E., Inc. Pulsed neutron logging method using cumulative count curves. 4,712,007, 12-8-87, Cl. 250-270.000.
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Kazumasa, 4,638,387, Cl. 360-122.000.

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Yasushi, 4,706,201, Cl. 364-474.000.
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Yasushi, 4,703,415, Cl. 364-170.000.

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Onishi, Yoko; Motokawa, Isamu; Furusho, Takao; a
shikumi, Chikao, 4,681,877, Cl. 514-206.000.

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Telecommunications Cit-Alcatel. Space-division switching
for high data rate signals. 4,667,320, 5-19-87, Cl. 370-58.000

Ono, Akira, to Kabushiki Kaisha Toshiba. Surface inspection a
4,696,572, 9-29-87, Cl. 356-348.000.

Ono, Akira, to Kabushiki Kaisha Toshiba. Method and appa
measuring a forming error of an object. 4,697,927, 10-
356-360.000.

Ono, Akira: *See*—
Inoue, Senya; Ono, Akira; Kobayashi, Mikio; and Yokoo
4,698,317, Cl. 501-9.000.
Inoue, Senya; and Ono, Akira, 4,711,769, Cl. 423-308.000

Ono, Chikai; and Okajima, Yoshinori, to Fujitsu Limited. Sen
tor device. 4,636,831, 1-13-87, Cl. 357-45.000.

Ono, Fuminobu: *See*—
Kamei, Takao; Ono, Fuminobu; Komai, Keiichi; Wak
Takeshi; Ogawa, Takayuki; Ito, Hideaki; and Shirakaw
shi, 4,702,745, Cl. 44-10.00D.

Ono, Haruo: *See*—
Fuse, Takahiro; Kawamura, Masao; Yamagishi, Koji;
Kazuyuki; Ono, Haruo; and Kizaki, Masaharu, 4,64
358-236.000.

Ono, Hideo; Nozaki, Yukimasa; and Harada, Setsuo, to Takeda Chemical Industries, Ltd. Antibiotics, their production and use. 4,656,288, 4-7-87, Cl. 548-244.000.

Ono, Hideo: *See*—
Harada, Setsuo; Nozaki, Yukimasa; and Ono, Hideo. 4,667,027, Cl. 549-221.000.

Ono, Hideyuki: *See*—
Koike, Norio; Nakai, Masaaki; Ando, Haruhisa; Ozaki, Toshifumi; Ohba, Shinya; Ono, Hideyuki; and Akiyama, Toshiyuki. 4,689,687, Cl. 358-213.240.

Ono, Hiroshi; Miyama, Kanemitsu; and Kasuga, Takaharu, to Mitsui Toatsu Chemicals, Inc. Preparation process of 2-chloropropionaldehyde. 4,654,445, 3-31-87, Cl. 568-454.000.

Ono, Hirotaka, to Toyama Gakki Seizo K.K. Woodwind instrument. 4,669,351, 6-2-87, Cl. 84-380.00R.

Ono, Hitoshi: *See*—
Arisawa, Takashi; Maruyama, Yoichiro; Shiba, Koreyuki; Niwa, Toshio; Kaneko, Masaharu; and Ono, Hitoshi. 4,646,309, Cl. 372-53.000.
Suzuki, Tetsumi; Murayama, Tetsuo; Ono, Hitoshi; Otsuka, Shigenori; and Nozomi, Mamoru. 4,664,997, Cl. 430-58.000.
Yoshikawa, Yoshitaka; Tsukamoto, Masahide; Nishimura, Yutaka; Ono, Hitoshi; and Sano, Tetsuhiro. 4,679,054, Cl. 346-76.0PH.

Ono, Ichiro: *See*—
Yoshioka, Hiroshi; Ono, Ichiro; and Uehara, Hitoshi. 4,709,065, Cl. 556-428.000.

Ono, Isao: *See*—
Adachi, Masahiko; Ono, Isao; and Ikeda, Hiroaki. 4,672,328, Cl. 330-286.000.
Maruyama, Hitoshi; Ono, Isao; Kohno, Hiroji; Yamauchi, Junnosuke; and Okaya, Takuji. 4,708,947, Cl. 503-209.000.

Ono, Izumi, to Fujitsu Limited. Cooling device attached to each surface of electronic parts on a printed-wiring board. 4,688,147, 8-18-87, Cl. 361-385.000.

Ono, Jun: *See*—
Enokida, Susumu; and Ono, Jun. 4,707,020, Cl. 296-191.000.

Ono, Kaichi: *See*—
Sumida, Seizi; Ono, Kaichi; Yoshida, Kazuo; and Yamada, Tomozo. 4,709,057, Cl. 549-262.000.

Ono, Katsuhiro, to Kabushiki Kaisha Toshiba. Rotating anode x-ray tube device. 4,674,109, 6-16-87, Cl. 378-130.000.

Ono, Katsuhiro, to Kabushiki Kaisha Toshiba. X-ray tube device with a rotatable anode. 4,679,220, 7-7-87, Cl. 378-132.000.

Ono, Katsuhiro, to NGK Insulators, Ltd. Ceramic center for machine tools. 4,682,445, 7-28-87, Cl. 51-236.000.

Ono, Katsuhiro; Sakuma, Tatsuya; and Takahashi, Hiroshi, to Kabushiki Kaisha Toshiba. X-ray tube apparatus. 4,698,835, 10-6-87, Cl. 378-136.000.

Ono, Katsuyasu, to NSK-Warner K. K. Belt buckle assembly. 4,642,857, 2-17-87, Cl. 24-637.000.

Ono, Katsuyasu, to NSK-Warner K. K. Seat belt support position adjusting apparatus. 4,664,415, 5-12-87, Cl. 280-808.000.

Ono, Keiichi: *See*—
Muraoka, Masami; Nakamura, Toshio; Sugie, Akihiko; Ono, Keiichi; and Yamamoto, Michihiro. 4,680,307, Cl. 514-460.000.

Ono, Ken'ichi, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,672,465, 6-9-87, Cl. 358-296.000.

Ono, Kenichi: *See*—
Haraguchi, Eiji; Nakagawa, Hiroto; Bando, Akira; Kuwahara, Takao; Nohara, Haruo; and Ono, Kenichi. 4,694,189, Cl. 290-40.00C.

Ono, Kenji; and Nobutoki, Kazuhiro, to Matsushita Electric Works, Ltd. Polarized electromagnetic actuator device. 4,703,293, 10-27-87, Cl. 335-80.000.

Ono, Kenji: *See*—
Nobutoki, Kazuhiro; Ono, Kenji; Okahashi, Keiji; and Matsumura, Sueyoshi. 4,688,010, Cl. 335-128.000.
Nobutoki, Kazuhiro; and Ono, Kenji. 4,695,813, Cl. 335-78.000.
Watanabe, Hiroyuki; Hamada, Eiichi; Hayashi, Motomu; and Ono, Kenji. 4,697,386, Cl. 49-374.000.

Ono, Kenzi, to Toyota Jidosha Kabushiki Kaisha. Construction of door glass guide in motor vehicle. 4,648,205, 3-10-87, Cl. 49-374.000.

Ono, Kimizo; and Nishimura, Akira, to Sumitomo Electric Industries, Ltd. Endoscope. 4,681,093, 7-21-87, Cl. 128-6.000.

Ono, Kohtaro, to Nippon Mayer Co., Ltd. Three-dimensional structural member. 4,686,134, 8-11-87, Cl. 428-222.000.

Ono, Kouichi: *See*—
Oomori, Tatsuo; Ono, Kouichi; and Fujita, Shigeto. 4,710,9.; 7, Cl. 372-53.000.
Ueda, Yoshihiro; Ono, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto. 4,692,627, Cl. 250-423.00P.
Ueda, Yoshihiro; Ono, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto. 4,716,295, Cl. 250-423.00P.

Ono, Kozo: *See*—
Hatamura, Yotaro; Ono, Kozo; Takada, Ryuji; and Kusaki, Takami. 4,674,339, Cl. 73-862.040.
Hatamura, Yotaro; and Ono, Kozo. 4,686,440, Cl. 318-646.000.
Nagao, Takaaki; Hatamura, Yotaro; and Ono, Kozo. 4,666,352, Cl. 409-153.000.
Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki. 4,653,594, Cl. 173-49.000.

Ono, Kyushichi, to Asahi Breweries Ltd. Method and apparatus for preventing clogging of powdery granules in light powdery granule treating system. 4,682,737, 7-28-87, Cl. 241-34.000.

Ono, Masaru: *See*—
Morishita, Masataka; Ono, Masaru; and Sumita, Yukio. 4,716,153, Cl. 514-30.000.

Ono, Masashi: *See*—
Yasui, Shigeo; Ono, Masashi; Kobayashi, Seiko; Senzai, Shigeru; and Uchida, Tatsuo. 4,676,923, Cl. 252-299.100.

Ono, Masayoshi: *See*—
Ikeda, Hidekazu; and Ono, Masayoshi. 4,662,649, Cl. 280-752.000.
Yoshimura, Toshiteru; Kobayashi, Takayuki; and Ono, Masayoshi. 4,709,943, Cl. 280-751.000.

Ono, Michihiro: *See*—
Kinoshita, Hiroyuki; and Ono, Michihiro. 4,688,065, Cl. 357-23.130.

Ono, Michio: *See*—
Aoki, Kozo; Ono, Michio; Saito, Naoki; and Umemoto, Makoto. 4,686,177, Cl. 430-553.000.
Kubota, Akihiro; Aoki, Tsuyoshi; Ono, Michio; and Sugiura, Riku. 4,698,660, Cl. 357-70.000.

Ono, Minoru; and Makino, Teruyoshi, to Fuji Photo Film Co., Ltd. Film pack. 4,637,703, 1-20-87, Cl. 354-276.000.

Ono, Mitsunori: *See*—
Ichijima, Seiji; Sato, Shingo; Ono, Mitsunori; and Sasaki, Noboru. 4,652,516, Cl. 430-544.000.
Ichijima, Seiji; Ono, Mitsunori; Itoh, Isamu; Mihayashi, Keiji; Tamoto, Koji; and Nakamura, Yoshisada. 4,711,837, Cl. 430-548.000.

Ono, Mitsuo: *See*—
Kanazawa, Kyoetsu; and Ono, Mitsuo. 4,708,047, Cl. 84-385.00P.

Ono, Motoyuki: *See*—
Takaoka, Michio; Motai, Tsuneaki; Ono, Motoyuki; Kaji, Isao; Hasegawa, Masakazu; Tan, Masayuki; and Kurata, Masaru. 4,701,117, Cl. 425-116.000.

Ono, Naohiko: *See*—
Yamawaki, Ichiro; Ogawa, Kazuo; Ono, Naohiko; Honma, Takaji; Nagayama, Sekio; and Yasumoto, Mitsugi. 4,696,929, Cl. 514-253.000.

Ono, Naoya: *See*—
Mitsumaki, Hiroshi; Takano, Nobuyoshi; and Ono, Naoya. 4,680,270, Cl. 436-52.000.
Mitsumaki, Hiroshi; Ono, Naoya; Shindo, Isao; and Takano, Nobuyoshi. 4,696,183, Cl. 73-19.000.
Yoshida, Kasumi; Takano, Nobuyoshi; and Ono, Naoya. 4,708,940, Cl. 436-45.000.

Ono, Noriki: *See*—
Shibasaki, Sohei; Iwasaki, Yasumasa; Ono, Noriki; Arai, Koichi; Maruyama, Koji; and Shimanari, Tatsumi. 4,648,706, Cl. 355-43.000.
Shibasaki, Sohei; Iwasaki, Yasumasa; and Ono, Noriki. 4,687,318, Cl. 355-5.000.

Ono Pharmaceutical Co., Ltd.: *See*—
Imaki, Katsuhiro; Okegawa, Tadao; and Arai, Yoshinobu. 4,640,931, Cl. 514-510.000.

Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo, to Toyoda Gosei Co., Ltd. Steering wheel. 4,667,529, 5-26-87, Cl. 74-492.000.

Ono, Satoshi: *See*—
Ishikawa, Masanobu; Nishikawa, Masumi; Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo. 4,698,838, Cl. 379-58.000.
Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi. 4,658,299, Cl. 358-256.000.
Watanabe, Isao; Momonoi, Kaishu; Hiraiwa, Toru; Ono, Satoshi; Nakano, Joji; Nagumo, Katsuyuki; and Takagi, Hiroyasu. 4,713,387, Cl. 514-332.000.

Ono, Seigo: *See*—
Kayanoki, Katsuhiko; Teramachi, Kazuo; Ono, Seigo; and Hashimoto, Yasuyuki. 4,650,053, Cl. 192-106.200.

Ono, Seiichi: *See*—
Takao, Osamu; Yoshida, Minoru; and Ono, Seiichi. 4,672,479, Cl. 360-95.000.

Ono, Shigeo: *See*—
Sejimo, Akinobu; and Ono, Shigeo. 4,702,867, Cl. 264-.25.000.

Ono, Shigeru, to NEC Corporation. Low bit-rate speech coding with decision of a location of each exciting pulse of a train concurrently with optimum amplitudes of pulses. 4,669,120, 5-26-87, Cl. 381-40.000.

Ono, Shigeyoshi: *See*—
Kubota, Katsuzo; Nakai, Masayuki; and Ono, Shigeyoshi. 4,645,513, Cl. 44-10.00H.

Ono, Shuichi; Aida, Satoru; and Hoshino, Kinshiro, to Japan Tobacco & Salt Public Corporation, The; and Sanjo Machine Works Ltd. Control method of stop waiting operation in collective packing machine. 4,672,796, 6-16-87, Cl. 53-419.000.

Ono, Shusuke: *See*—
Nakajima, Yasuo; Yamamoto, Yoshiharu; Miyatake, Yoshito; Nagaoka, Yoshitomi; and Ono, Shusuke. 4,690,515, Cl. 350-432.000.

Ono, Syusuke: *See*—
Yamamoto, Yoshiharu; Miyatake, Yoshito; Nakajima, Yasuo; Nagaoka, Yoshitomi; and Ono, Syusuke. 4,704,009, Cl. 350-432.000.

Ono, Taizo: *See*—
Scherer, Kirby V., Jr.; Ono, Taizo; Yamanouchi, Kouichi; and Yokoyama, Kazumasa. 4,686,024, Cl. 204-157.950.
Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; Inoue, Yoshihisa; Naito, Youichiro; and Suyama, Tadakazu. 4,654,337, Cl. 514-214.000.
Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; and Suyama, Tadakazu. 4,713,459, Cl. 546-150.000.

Ono, Takahiro; Akutsu, Takao; and Fujiwara, Hideyuki, to Japan Tobacco Inc. Drying and conditioning apparatus for tobacco. 4,640,299, 2-3-87, Cl. 131-303.000.
Ono, Takashi: *See*—
Akiyama, Kazutoshi; and Ono, Takashi. 4,649,174, Cl. 524-841.000.
Akiyama, Kazutoshi; Ono, Takashi; and Yagyu, Tatsuya. 4,666,519, Cl. 106-22.000.
Kimura, Shigehiro; Ono, Takashi; and Narisawa, Nobuyuki. 4,690,123, Cl. 123-612.000.
Ono, Takatoshi, to Disco Abrasive Systems, Ltd. Article holding apparatus and its use. 4,652,135, 3-24-87, Cl. 356-401.000.
Ono, Takatoshi, to Disco Abrasive Systems, Ltd. Semiconductor wafer dicing machine. 4,688,540, 8-25-87, Cl. 125-13.00R.
Ono, Takeshi, to Canon Kabushiki Kaisha. Communication apparatus which alerts operator to preset automatic operation. 4,641,133, 2-3-87, Cl. 340-540.000.
Ono, Takesi; Nakamura, Kazuo; and Okamoto, Toshio, to NEC Corporation. Spacecraft velocity measurement system. 4,647,932, 3-3-87, Cl. 342-461.000.
Ono, Takuro, to Tokyo Shibaura Denki Kabushiki Kaisha. Tape recorder with a head position control. 4,646,302, 2-24-87, Cl. 360-137.000.
Ono, Tatsuo; and Kuramoto, Kikuzo, to Nisso Sangyo Co., Ltd. Folding container. 4,646,928, 3-3-87, Cl. 220-6.000.
Ono, Tatsuo; Masuda, Akira; and Kuramoto, Kikuzo, to Nisso Sangyo Co., Ltd. Folding container. 4,684,034, 8-4-87, Cl. 220-6.000.
Ono, Teruaki, to Daikin Trade & Industry Co., Ltd.; and Chubu Cone Co., Ltd. Magnetic speaker. 4,699,242, 10-13-87, Cl. 181-170.000.
Ono, Tetsuo: *See*—
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi. 4,666,380, Cl. 418-55.000.
Hirano, Takahisa; Fukami, Shoji; Maruiwa, Yasuharu; Itoh, Takuyuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masatoshi. 4,696,084, Cl. 29-156.40R.
Kato, Yasuo; Ono, Tetsuo; Watanabe, Yoshio; Murayama, Seiichi; Mikoshiba, Shigeo; and Matsuno, Hiromitsu. 4,697,121, Cl. 313-595.000.
Matsuno, Hiromitsu; Murayama, Seiichi; and Ono, Tetsuo. 4,642,512, Cl. 313-25.000.
Ono, Toshiaki: *See*—
Hosoda, Naoyuki; Morikawa, Masaki; Uchiyama, Naoki; Yoshida, Hideaki; and Ono, Toshiaki. 4,676,827, Cl. 75-65.0ZM.
Ono, Toshio; Tamai, Yasuo; Mizuno, Chiaki; Ogawa, Hiroshi; and Saito, Shinji, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,710,421, 12-1-87, Cl. 428-213.000.
Ono, Toshiyuki: *See*—
Ishikuma, Mineyasu; Hasui, Hiroshi; and Ono, Toshiyuki. 4,708,881, Cl. 426-524.000.
Ono, Tsutomu; and Kashiwaba, Tadao, to Kabushiki Kaisha Sato. Portable thermal label printer. 4,706,095, 11-10-87, Cl. 346-76.0PH.
Ono, Tuyoshi: *See*—
Oishi, Kengo; and Ono, Tuyoshi. 4,644,434, Cl. 360-133.000.
Oishi, Kengo; Ono, Tuyoshi; and Ueno, Wataru. 4,672,499, Cl. 360-133.000.
Oishi, Kengo; and Ono, Tuyoshi. 4,688,127, Cl. 360-132.000.
Oishi, Kengo; and Ono, Tuyoshi. 4,689,705, Cl. 360-133.000.
Ono, Yasunori: *See*—
Yokomichi, Shigeharu; and Ono, Yasunori. 4,675,492, Cl. 219-69.00W.
Ono, Yoichi, to Seiko Epson Kabushiki Kaisha. Method of manufacturing MIM elements in liquid crystal displays. 4,683,183, 7-28-87, Cl. 430-20.000.
Ono, Yoshihiro: *See*—
Higashi, Akio; Shinada, Haruji; Kawajiri, Kazuhiro; Ono, Yoshihiro; Saitou, Mitsuo; Tamura, Hiroshi; and Ikeda, Mitsuru. 4,694,317, Cl. 357-30.000.
Ono, Yoshinobu; and Watanabe, Yoshio, to Fujitsu Limited. Delivery apparatus. 4,685,551, 8-11-87, Cl. 198-346.200.
Ono, Yoshio: *See*—
Shida, Junji; Ono, Yoshio; Mitsuka, Ikuo; Hoki, Testuo; Kuwabara, Akira; Haibara, Hitoshi; and Sakamoto, Takashi. 4,656,517, Cl. 358-213.000.
Ono, Yoshitaka: *See*—
Ohkawara, Masaaki; Miyahara, Masayuki; and Ono, Yoshitaka. 4,675,236, Cl. 428-402.240.
Ono, Yoshiyuki: *See*—
Anazawa, Takanori; and Ono, Yoshiyuki. 4,664,681, Cl. 55-158.000.
Ono, Yotsuo: *See*—
Yagita, Koji; and Ono, Yotsuo. 4,705,632, Cl. 210-500.230.
Ono, Yuichi: *See*—
Umemoto, Yasunari; Takahashi, Susumu; and Ono, Yuichi. 4,698,652, Cl. 357-16.000.
Usagawa, Toshiyuki; Ono, Yuichi; and Takahashi, Susumu. 4,710,787, Cl. 357-16.000.
Ono, Yukiyoshi: *See*—
Suzuki, Jiro; Nishino, Atsushi; Hosaka, Masato; Ono, Yukiyoshi; and Takeuchi, Yasuhiro. 4,676,737, Cl. 431-328.000.
Ono, Yukou: *See*—
Ando, Hiromi; Endo, Mitsuhiro; and Ono, Yukou. 4,690,034, Cl. 91-369.00A.
Endo, Mitsuhiro; Ando, Hiromi; and Ono, Yukou. 4,671,167, Cl. 91-369.00A.
Ono, Yusuke; Ohotoshi, Sachio; and Yamauchi, Masaru, to Asahi Glass Company, Ltd. Method for moistureproof coating of an electrical product. 4,698,240, 10-6-87, Cl. 427-58.000.
Ono, Yutaka: *See*—
Imanishi, Syozo; Yamakawa, Hiroyoshi; and Ono, Yutaka. 4,651,866, Cl. 198-500.000.
Kuwahara, Hajime; Ono, Yutaka; and Nikaido, Mitsuhiro. 4,680,466, Cl. 250-231.0SE.
Ono, Yuzo, to NEC Corporation. Focus error detector and optical head using the same. 4,689,481, 8-25-87, Cl. 250-201.000.
Onoda Cement Company, Ltd.: *See*—
Itoh, Tsutomu; Tateno, Haruo; Nagasaka, Hideo; Yamamoto, Masahiro; Mitsuyoshi, Yusuke; Matsuno, Susumu; Saitoh, Hiroshi; and Kitoh, Masayuki. 4,670,290, Cl. 427-34.000.
Kikuchi, Masatsune; Matsui, Satoru; Omori, Hiroshi; and Shimoda, Masao. 4,650,523, Cl. 106-315.000.
Miyoshi, Teturo; and Yokoshita, Toshiaki. 4,654,004, Cl. 432-80.000.
Onuma, Eiichi; Kawamura, Youji; Obana, Hiroshi; Aizawa, Takemi; Tamai, Motomi; Inagaki, Tsuguya; and Tokita, Minoru. 4,691,869, Cl. 241-34.000.
Take, Takao; Kaneko, Katsuaki; Kusunoki, Kokyo; and Ichibe, Toshinobu. 4,645,548, Cl. 156-39.000.
Onoda, Hiroshi; and Mizuno, Kenji, to Brother Kogyo Kabushiki Kaisha. Recording pen apparatus. 4,644,367, 2-17-87, Cl. 346-33.00R.
Onoda, Hiroshi; and Mizuno, Kenji, to Brother Kogyo Kabushiki Kaisha. Writing plotting apparatus with keyboard. 4,682,902, 7-28-87, Cl. 400-18.000.
Onoda, Junjiro, to Fuji Jukogyo Kabushiki Kaisha; and Onoda, Junjiro. Collapsible truss unit, and frameworks constructed by combination of such units. 4,667,451, 5-26-87, Cl. 52-646.000.
Onoda, Kazuo: *See*—
Hayakawa, Futomi; and Onoda, Kazuo. 4,650,950, Cl. 219-85.0BA.
Onoda, Mamoru: *See*—
Saeki, Osamu; Mori, Kenji; Onoda, Mamoru; Watanabe, Ryo; Shinohara, Katsufumi; Ashie, Takehiko; and Imanishi, Nobuyuki. 4,678,508, Cl. 75-26.000.
Onoda, Michitoshi: *See*—
Ohta, Minoru; Miura, Kazuhiko; Onoda, Michitoshi; Iwasaki, Yukio; and Hattori, Tadashi. 4,705,713, Cl. 428-209.000.
Onoda, Ruri; Kuroki, Yoichi; and Nakamura, Gen, to Canon Kabushiki Kaisha. System for photoelectric detection. 4,694,186, 9-15-87, Cl. 250-578.000.
Onoda, Seiichi: *See*—
Noro, Takanobu; Koakutsu, Yasumasa; Takeuchi, Tamio; Yasuda, Masao; Onoda, Seiichi; Arima, Hideo; Yokono, Hitoshi; and Tanei, Hirayoshi. 4,715,673, Cl. 350-96.200.
Onoda, Shigeyoshi: *See*—
Ebata, Tokihide; and Onoda, Shigeyoshi. 4,653,743, Cl. 271-124.000.
Mizutani, Morikazu; Onoda, Shigeyoshi; and Kanemitsu, Shin. 4,705,384, Cl. 355-3.00R.
Nishino, Fumio; Onoda, Shigeyoshi; Nomura, Akihiro; Mizutani, Morikazu; Kanemitsu, Shinji; and Toriumi, Mototada. 4,714,33[illegible] Cl. 355-3.0DR.
Onoda, Yoshimitsu; Yamakoshi, Takato; and Arakawa, Shigeru, Hitachi Elevator Engineering & Service Co., Ltd.; and Hitachi L[illegible] Supervisory operation control system for protecting elevators or t[illegible] like from a dangerous situation. 4,649,751, 3-17-87, Cl. 73-658.000.
Onoda, Yoshimitsu; and Goko, Hiroshi, to Hitachi, Ltd.; and Hitac[illegible] Engineering and Service Co., Ltd. Emergency control system f[illegible] elevators. 4,690,251, 9-1-87, Cl. 187-107.000.
Onoda, Yoshitomi: *See*—
Ishii, Masami; Sugimoto, Hitoshi; Ozawa, Mitsuhiro; and Ono[illegible] Yoshitomi. 4,663,957, Cl. 72-179.000.
Onodera, Akira: *See*—
Watanabe, Yoshiaki; Yokoo, Chihiro; Goi, Masami; Onode[illegible] Akira; Murata, Mitsuo; Fukushima, Hiroshi; and Sota, Kaor[illegible] 4,699,981, Cl. 540-227.000.
Onodera, Kaoru; Hohnishi, Satoru; Kobayashi, Kazuyuki; and S[illegible] ozawa, Kazuo, to Konishiroku Photo Industry Co., Ltd. Pho[illegible] graphic screen. 4,715,690, 12-29-87, Cl. 350-357.000.
Onodera, Kaoru: *See*—
Kajiwara, Mukoto; and Onodera, Kaoru. 4,661,441, Cl. 430-555.000.
Komorita, Kazuo; Miyoshi, Masanobu; and Onodera, Kaor[illegible] 4,640,889, Cl. 430-505.000.
Miyoshi, Masanobu; Takada, Shun; and Onodera, Kaoru. 4,670,3[illegible] Cl. 430-621.000.
Nishijima, Toyoki; and Onodera, Kaoru. 4,675,275, Cl. 430-372.0[illegible]
Nishijima, Toyoki; and Onodera, Kaoru. 4,684,603, Cl. 430-372.0[illegible]
Sasaki, Masao; Kadowaki, Takashi; and Onodera, Kaoru. 4,692,3[illegible] Cl. 430-507.000.
Takada, Shun; Kadowaki, Takashi; and Onodera, Kaoru. 4,666,5[illegible] Cl. 430-549.000.
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Sumitani, Koji; Sakai, Tokuji; Yamasaki, Yasuo; and Onodera, Tamio, 4,695,667, Cl. 585-481.000.
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Tanaka, Yoshio; and Onodera, Toshihiro, 4,680,534, Cl. 323-290.000.
Onodera, Toshio: *See*—
Kikuchi, Masafumi; Onodera, Toshio; Toyama, Sumio; and Sakamoto, Hiroshi, 4,679,091, Cl. 358-242.000.
Onodera, Yasuaki: *See*—
Asai, Toshio; Nakaya, Yasuhiro; and Onodera, Yasuaki, 4,681,118, Cl. 128-643.000.
Osada, Soichi; Inoue, Hirokatsu; Shimizu, Chuji; Onodera, Yasuaki; Kobayashi, Ken-ichi; Kozima, Kazuo; and Shioda, Shigeyoshi, 4,653,500, Cl. 128-639.000.
Onoe, Hiroyasu: *See*—
Ueyama, Seiji; and Onoe, Hiroyasu, 4,707,395, Cl. 428-212.000.
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Matsuoka, Hiroshi; and Onoe, Susumu, 4,710,155, Cl. 474-260.000.
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Onogi, Nobuyoshi; and Shimamoto, Mamoru, to Nippondenso Co., Ltd. Ignition system for internal combustion engine. 4,681,082, 7-21-87, Cl. 123-643.000.
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Guarino, Nicholas; Onorio, Gabriel; and Ward, Billy W., 4,673,101, Cl. 220-335.000.
Onosato, Masashi: *See*—
Nakajima, Takeshi; Kouyama, Toshitake; and Onosato, Masashi, 4,689,676, Cl. 358-149.000.
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Harada, Norimichi; and Onoue, Akihiro, 4,689,027, Cl. 440-75.000.
Taguchi, Michihiro; and Onoue, Akihiro, 4,637,802, Cl. 440-75.000.
Onoue, Hiroshi; and Takahashi, Hiromi, to Shionogi & Co., Ltd. Process for producing glutaconic acid derivatives. 4,713,461, 12-15-87, Cl. 548-194.000.
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Onozawa, Kazunori: *See*—
Nakazato, Shinji; Uchida, Hideaki; Tanba, Nobuo; Gotoo, Nobuyuki; Onozawa, Kazunori; and Hiraishi, Atsushi, 4,672,416, Cl. 357-46.000.
Onozawa, Kazuo, to Oki Electric Industry Co., Ltd. Digital scan converter. 4,675,679, 6-23-87, Cl. 342-185.000.
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Onozawa, Motohisa: *See*—
Ishii, Yugoro; Onozawa, Motohisa; and Katamine, Akihiko, 4,712,428, Cl. 73-644.000.
Onspot AB: *See*—
Andersson, Olle G., 4,657,118, Cl. 188-4.00R.
Onstenk, Ralph M.: *See*—
Hamilton, Edward H.; Onstenk, Ralph M.; and Lesscher, Bernardus A., 4,674,650, Cl. 220-319.000.
Ontario Cancer Institute, The: *See*—
Mak, Tak W., 4,713,322, Cl. 435-70.000.
Yaffe, Martin J., 4,638,502, Cl. 378-207.000.
Ontario Development Corp.: *See*—
Puddephatt, Richard J.; and Treurnicht, Ilse, 4,714,627, Cl. 427-53.100.
Ontario Die Company Limited: *See*—
Levene, Martin M.; and Lessard, William W., 4,672,870, Cl. 83-19.000.
Levene, Martin M.; and Lessard, William W., 4,694,719, Cl. 83-451.000.
Ontario Drive and Gear Limited: *See*—
Smith, Morley L., 4,683,970, Cl. 180-15.000.
Szymkowiak, Zbigniew, 4,674,589, Cl. 180-215.000.
Ontario, Inc.: *See*—
Roche, Richard G.; and Blades, Russell, 4,700,548, Cl. 62-139.000.
Ontario Research Foundation: *See*—
Ha, Kong, 4,685,291, Cl. 60-286.000.
Lawson, Alexander, 4,671,059, Cl. 60-309.000.
Mulholland, D. Lindsay; and Sheppard, John D., 4,703,007, Cl. 435-161.000.
Ontario Store Fixtures Inc.: *See*—
Bailey, Stephen P., 4,667,914, Cl. 248-286.000.
Ontario Technologies Corporation: *See*—
Schulz, David W., 4,642,863, Cl. 29-156.80B.
Weisert, Edward D., 4,678,115, Cl. 228-183.000.
Onufryk, Michael. Optical image deflector assembly and method for locating visually sensitive peripheral areas of an eye, and determining corrective prismatic eye glasses therefore. 4,673,263, 6-16-87, Cl. 351-158.000.
Onuki, Ken: *See*—
Tomizawa, Hiroshi; Okada, Masakazu; Yasumoto, Seiichi; Mizokawa, Sadao; Fushimi, Hitoshi; Onuki, Ken; Takahashi, Masahiro; and Hamada, Takuji, 4,704,714, Cl. 370-15.000.
Onuki, Takashi; Naora, Hirokazu; and Nakamura, Asao, to Ajinomoto Co., Inc. Method for manufacture of 7-(2,5-dioxocyclopentyl)heptanoic acid derivative. 4,658,055, 4-14-87, Cl. 562-503.000.
Onuma, Akiyoshi: *See*—
Yabe, Kiyoshi; and Onuma, Akiyoshi, 4,705,144, Cl. 185-40.00R.
Onuma, Eiichi; Kawamura, Youji; Obana, Hiroshi; Aizawa, Takemi; Tamai, Motomi; Inagaki, Tsuguya; and Tokita, Minoru, to Onoda Cement Co., Ltd.; and Sankyo Dengyo Co., Ltd. Apparatus for controlling the operation of a grinding system. 4,691,869, 9-8-87, Cl. 241-34.000.
Onuma, Kunihiko: *See*—
Suzuki, Kunio; Onuma, Kunihiko; and Masui, Koji, 4,658,376, Cl. 365-1.000.
Onuma, Tatsuro: *See*—
Nanba, Keiichiro; Tokui, Satoru; and Onuma, Tatsuro, 4,680,634, Cl. 358-181.000.
Onuma, Tomiyasu: *See*—
Kanamaru, Hisanobu; Sasaya, Kazushi; Onuma, Tomiyasu; and Tohkairin, Akira, 4,644,850, Cl. 91-507.000.
Onuma, Toshio: *See*—
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,634,143, Cl. 280-707.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,647,068, Cl. 280-707.000.
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Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,671,533, Cl. 280-707.000.
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Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,715,616, Cl. 280-707.000.
Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,693,494, Cl. 280-707.000.
Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,714,271, Cl. 280-707.000.
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Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Onystok, Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dworsky, Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., 4,639,631, Cl. 310-344.000.
Chason, Marc K.; Tomase, Joseph P.; and Onystok, Michael J., 4,642,511, Cl. 310-348.000.
Ooami, Kazuo; and Sugo, Yasuhisa, to Fujitsu Limited. Semiconductor memory device comprising address holding flip-flop. 4,665,509, 5-12-87, Cl. 365-233.000.
Ooami, Kazuo; Sugo, Yasuhisa; and Takeshima, Tohru, to Fujitsu Limited. Semiconductor memory device having block pairs. 4,692,900, 9-8-87, Cl. 365-63.000.
Ooba, Kouichiro: *See*—
Kinoshita, Katsuyuki; Shinoda, Kazunori; Sugiyama, Masaru; Ooba, Kouichiro; and Suzuki, Yoshiji, 4,677,341, Cl. 315-12.100.
Oodaira, Hirosi; Suzuki, Haruko; Saito, Masayuki; and Ohuchi, Masayuki, to Kabushiki Kaisha Toshiba. Method of forming conductor path. 4,694,138, 9-15-87, Cl. 219-121.0LM.
Oodaira, Hirosi: *See*—
Ohuchi, Masayuki; Oodaira, Hirosi; and Yoshida, Kenichi, 4,635,356, Cl. 29-841.000.
Saito, Masayuki; and Oodaira, Hirosi, 4,704,318, Cl. 428-209.000.
Ooe, Akihiko; Imaida, Tetsuo; Uchida, Teruyoshi; and Kojima, Hirotaka, to Mitsubishi Rayon Co., Ltd. Method and apparatus for measuring gas partial pressure in living body. 4,690,147, 9-1-87, Cl. 128-635.000.
Ooga, Syougo; and Minbu, Shouhei, to Kabushiki Kaisha Daikin Seisakusho. Clutch cover assembly. 4,667,795, 5-26-87, Cl. 192-70.270.
Ooga, Syougo, to Kabushiki Kaisha Daikin Seisakusho. Friction facing assembly. 4,671,399, 6-9-87, Cl. 192-107.00C.

Oogami, Mitsuhiro: *See*—
Yamada, Yosuke; and Oogami, Mitsuhiro, 4,690,158, Cl. 134-107.000.

Oogita, Yoshinori: *See*—
Itoh, Yoshiro; Oogita, Yoshinori; Komaki, Shigeki; and Nakao, Kazuhiro, 4,666,254, Cl. 350-334.000.

Ooguro, Yukito, to Sanyo Mikawa Body Corp. Van body used with container car, freight car and truck. 4,682,811, 7-28-87, Cl. 296-181.000.

Oohasi, Isao: *See*—
Maruoka, Kuniaki; Takahashi, Nobuyuki; Tujimura, Senkichi; Yamashita, Yasuhiko; Otsuka, Setsuo; Oohasi, Isao; and Motoyama, Takeo, 4,698,102, Cl. 148-2.000.

Oohigashi, Masakazu: *See*—
Joyashiki, Hisashi; Iwasawa, Minoru; Oohigashi, Masakazu; and Terai, Masao, 4,710,995, Cl. 15-22.00R.

Oohori, Harumi, to Toyota Jidosha Kabushiki Kaisha. Built-in wheel speed sensor structure for a car. 4,698,536, 10-6-87, Cl. 310-168.000.

Ooi, Katsunori; Hidai, Yutaka; Kurosawa, Yoshiaki; and Nakamura, Yoshikatsu, to Kabushiki Kaisha Toshiba. Method and device for handwritten letter recognition. 4,685,142, 8-4-87, Cl. 382-13.000.

Ooi, Kazushige, to Kabushiki Kaisha Toshiba. Driver circuit for two-dimensional image sensor. 4,680,636, 7-14-87, Cl. 358-213.180.

Ooi, Kenta: *See*—
Miyai, Yoshitaka; Ooi, Kenta; and Kato, Shunsaku, 4,665,049, Cl. 502-400.000.

Ooi, Shinichi: *See*—
Noguchi, Kazuo; and Ooi, Shinichi, 4,698,980, Cl. 62-179.000.

Ooishi, Katumi: *See*—
Katayama, Kazuo; Ooishi, Katumi; Ogawa, Toshiake; Batai, Masaru; and Kataoka, Mitsuru, 4,660,852, Cl. 280-750.000.

Ooishi, Kazuya: *See*—
Umeda, Takao; Ooishi, Kazuya; Igawa, Tatsuo; and Hori, Yasuro, 4,712,876, Cl. 350-350.00S.

Ooishi, Noriko: *See*—
Miyazawa, Yoshinobu; Ooishi, Noriko; Aoki, Shigeru; and Tashiro, Yasuhisa, 4,667,054, Cl. 562-401.000.

Ooishi, Shogo, to Toyota Jidosha Kabushiki Kaisha. Rotary type electrostatic spray painting device. 4,650,123, 3-17-87, Cl. 239-703.000.

Ooishi, Shogo: *See*—
Takeuchi, Hitoshi; and Ooishi, Shogo, 4,700,896, Cl. 239-693.000.

Ooishi, Tadashi, to Sumitomo Chemical Company, Limited. Agricultural and horticultural fungicidal composition. 4,684,634, 8-4-87, Cl. 514-144.000.

Ooishi, Tadashi: *See*—
Tomioka, Hiroki; Ooishi, Tadashi; Takahashi, Junya; Sasaki, Mitsuru; and Hirata, Naonori, 4,709,052, Cl. 548-548.000.

Ooka, Akihiro; Okamoto, Kenji; and Yamada, Koji, to Agency of Industrial Science and Technology; and Ministry of International Trade and Industry. Transfer device for moving recumbent person. 4,680,818, 7-21-87, Cl. 5-81.00R.

Ooka, Masataka; Kuwamura, Shinichi; and Murakami, Yoichi, to Dainippon Ink and Chemicals, Inc. Process for producing tertiary amino group-containing vinyl polymers and curable resin compositions based on these polymers. 4,634,736, 1-6-87, Cl. 525-117.000.

Ooka, Masataka; Kawamura, Shinichi; and Murakami, Yoichi, to Dainippon Ink and Chemicals, Inc. Process for producing tertiary amino group-containing vinyl polymers and curable resin compositions based on these polymers. 4,670,521, 6-2-87, Cl. 525-382.000.

Ooka, Masataka; Okuda, Yaeko; and Kunugiza, Motoyasu, to Dainippon Ink and Chemicals, Inc. Room temperature-curable resin composition. 4,696,975, 9-29-87, Cl. 525-113.000.

Ooka, Yuzo, to Honda Giken Kogyo Kabushiki Kaisha. Clutch release apparatus for change speed transmission. 4,650,055, 3-17-87, Cl. 192-85.0CA.

Ookawa, Katsuhiro, to Mitsubishi Denki Kabushiki Kaisha. Magnetic video reproducer with reversely recorded cue track. 4,691,250, 9-1-87, Cl. 360-14.100.

Ookawa, Katsuhiro; Fujii, Toshifumi; and Nishida, Yoshihiro, to Mitsubishi Denki Kabushiki Kaisha. Magnetic recording and reproducing apparatus in which recording is restarted responsive to recorded cue signals. 4,691,251, 9-1-87, Cl. 360-14.100.

Ookawa, Norio: *See*—
Seki, Takatoshi; Akimoto, Taizo; Ookawa, Norio; and Torisawa, Nobuyuki, 4,664,506, Cl. 355-20.000.

Ookawa, Tomoyuki; and Murayama, Hiroshi, to Hitachi, Ltd.; and Hitachi Microcomputer Engineering Ltd. Sign generation system for a carry save adder. 4,644,491, 2-17-87, Cl. 364-784.000.

Ooki, Kenji: *See*—
Ooyama, Kazuo; Ooki, Kenji; and Mizushima, Toshio, 4,711,201, Cl. 123-73.00A.

Ooki, Minoru: *See*—
Sugiyama, Masahiko; Sutou, Masatune; Murata, Mitsuru; Ooki, Minoru; and Tagawa, Shigetaro, 4,636,154, Cl. 418-97.000.

Ooki, Yoshitaka: *See*—
Ura, Syouzabu; Yasuda, Makoto; and Ooki, Yoshitaka, 4,712,532, Cl. 123-572.000.

Ookubo, Hiroaki, to Matsushita Electric Industrial Co., Ltd. Electric platen driving device with manual override. 4,697,943, 10-6-87, Cl. 400-568.000.

Ookubo, Hiroaki, to Matsushita Electric Industrial Co. Ltd. Platen clutch mechanism. 4,710,046, 12-1-87, Cl. 400-556.200.

Ookubo, Mamoru; Iwasaki, Takayuki; and Mieda, Kenji, to Kabushiki Kaisha Daikin Seisakusho. Manufacturing method of a clutch cover assembly. 4,642,871, 2-17-87, Cl. 29-513.000.

Ookubo, Syouichi, to Mitsubishi Denki Kabushiki Kaisha. Group supervision apparatus for an elevator. 4,669,579, 6-2-87, Cl. 187-124.000.

Ookubo, Takao; Baba, Yuko; and Kamihama, Kiyoshi, to Nissan Motor Co., Ltd.; and Hashimoto Forming Kogyo Co., Ltd. Wheel cover for a vehicle. 4,641,890, 2-10-87, Cl. 301-37.0SS.

Ookubo, Takeshi; Shiraishi, Motoatsu; Namiki, Akira; and Tazou, Ken, to Honda Giken Kogyo Kabushiki Kaisha. Transfer system for plastic processing machines. 4,688,668, 8-25-87, Cl. 198-621.000.

Ookuma, Tadashi; and Murata, Shigeshi, to Hitachi Seiki Co., Ltd. Die machining apparatus in automatic programming. 4,672,551, 6-9-87, Cl. 364-474.000.

Oomea, Gysbert L.: *See*—
Beckman, Leo H. J. F.; and Oomea, Gysbert L., 4,701,049, Cl. 356-1.000.

Oomen, Gijsbert L., to N.V. Optische Industrie de Oude Delft. Measuring system for contactless measuring the distance between a predetermined point of an object surface and a reference level. 4,673,817, 6-16-87, Cl. 250-561.000.

Oomori, Tatsuo; Ono, Kouichi; and Fujita, Shigeto, to Mitsubishi Denki Kabushiki Kaisha. Laser system. 4,710,937, 12-1-87, Cl. 372-53.000.

Oomori, Tatsuo: *See*—
Ueda, Yoshihiro; Ono, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto, 4,692,627, Cl. 250-423.00P.
Ueda, Yoshihiro; Ono, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto, 4,716,295, Cl. 250-423.00P.

Ooms, Leo F. M., to U.S. Philips Corporation. Filament support for a projection lamp. 4,658,180, 4-14-87, Cl. 313-273.000.

Ooms, Leo F. M.; and Notelteirs, Victor R., to U.S. Philips Corporation. Electric lamp having an outwardly extending protrusion. 4,689,519, 8-25-87, Cl. 313-112.000.

Ooms, Richard A., to AGFA-Gevaert N.V. High contrast development of silver halide emulsion material. 4,710,451, 12-1-87, Cl. 430-441.000.

Oonaka, Hidemi; Baika, Toyokazu; Shibata, Yoshiaki; Horii, Kingo; Sato, Yasushi; and Akiyama, Tomojiro, to Toyota Jidosha Kabushi Kaisha. Internal combustion engine with by-pass control system for supercharger. 4,656,992, 4-14-87, Cl. 123-559.000.

Oonaka, Hidemi: *See*—
Baika, Toyokazu; and Oonaka, Hidemi, 4,712,442, Cl. 74-467.000.

Oonishi, Akiyoshi; Tanaka, Kenji; Tadeka, Makoto; Konno, Kazuhiko; and Saito, Masaki, to Mitsubishi Yuka Fine Chemicals Co., Ltd. Calcium carboxylate phenol derivative. 4,694,102, 9-15-87, Cl. 562-426.000.

Oonishi, Hajimu: *See*—
Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,660,961, Cl. 355-4.000.
Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,697,913, Cl. 355-3.00R.

Oonishi, Hironobu: *See*—
Tsuji, Eiji; Okabe, Hirobumi; Ike, Hideo; Uratani, Fumihiro; Ota, Takashi; Kaneda, Hiroshi; Hanatate, Yuko; Hamada, Tadashi; and Oonishi, Hironobu, 4,668,525, Cl. 428-469.000.

Oono, Akihiro: *See*—
Tanooka, Shigeo; Mori, Yutaka; Oono, Akihiro; and Hasegawa, Akira, 4,691,796, Cl. 180-142.000.

Oono, Hiroshi; and Oosaka, Shigenori, to Fuji Photo Film Co., Ltd. Optical beam modulation and deflection device. 4,701,674, 10-20-87, Cl. 315-276.000.

Oono, Susumu; and Kawata, Mitsuru, to Toyo Kasei Kogyo Kabushiki Kaisha. Manufacture of parabolic antennas. 4,647,329, 3-3-87, Cl. 156-245.000.

Oono, Tetsuya: *See*—
Abe, Yoshiharu; Wazaki, Yoshio; and Oono, Tetsuya, 4,709,334, Cl. 364-431.050.

Oord, Klaas T., to U.S. Philips Corporation. Shaving apparatus. 4,688,329, 8-25-87, Cl. 30-43.600.

Oord, Klaas T.: *See*—
Bergsma, Wijtse; and Oord, Klaas T., 4,711,028, Cl. 30-43.600.

Oosaka, Shigenori; and Takatori, Naoki, to Fuji Photo Film Co., Ltd. Device for fixing a regulating plate of a magnetic disc device. 4,656,543, 4-7-87, Cl. 360-97.000.

Oosaka, Shigenori; and Matsuda, Shinichi, to Fuji Photo Film Co., Ltd. Device for loading or unloading magnetic disc pack. 4,694,362, 9-15-87, Cl. 360-97.000.

Oosaka, Shigenori, to Fuji Photo Film Co., Ltd. Device for loading or unloading magnetic disc pack. 4,703,373, 10-27-87, Cl. 360-97.000.

Oosaka, Shigenori; and Negishi, Kenji, to Fuji Photo Film Co., Ltd. Device for mounting magnetic head. 4,713,706, 12-15-87, Cl. 360-104.000.

Oosaka, Shigenori: *See*—
Matsuda, Shinichi; and Oosaka, Shigenori, 4,694,364, Cl. 360-99.000.
Oono, Hiroshi; and Oosaka, Shigenori, 4,701,674, Cl. 315-276.000.

Oosaki, Keiji: *See*—
Deguchi, Takenori; Uchida, Kazuko; Ikita, Takao; Maruhashi, Shigeaki; Hoshino, Kazuo; and Oosaki, Keiji, 4,696,724, Cl. 204-27.000.

Oosaki, Saburou: *See*—
Okamoto, Tatsuo; Eguchi, Kouji; and Oosaki, Saburou, 4,710,790, Cl. 357-23.600.

Oosawa, Kouichi; and Kinoshita, Yoshiaki, to Toyota Jidosha Kabushiki Kaisha. Knock control system for supercharged internal combustion engine. 4,715,184, 12-29-87, Cl. 60-602.000.

Oosawa, Masahiro: *See*—
Eto, Masayuki; Izumi, Kazuyoshi; Kobayashi, Fuyuki; Kawagishi, Mamoru; and Oosawa, Masahiro, 4,639,721, Cl. 340-747.000.

dakazu: *See*—
Masami; and Oosawa, Tadakazu, 4,635,509, Cl. 81-3.200.
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, Noboru; Tomaki, Kenji; Oosawa, Tetsuo; and Murata,
hiro, 4,692,619, Cl. 250-338.000.
uyuki: *See*—
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547, Cl. 204-37.100.
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Opsvik, Peter. Device for supporting a person in a seated position. 4,653,808, 3-31-87, Cl. 297-423.000.

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Wilson, Monti R.; Hutchison, Victor E.; Bendure, William J.; and Anderson, Frederick W., 4,641,244, Cl. 364-475.000.

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Frohlich, Alfons, 4,662,036, Cl. 24-421.000.
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Edgley, John K., 4,657,209, Cl. 244-54.000.

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Anthon, Erik W., 4,659,933, Cl. 250-372.000.
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Berning, Peter H.; and Phillips, Roger W., 4,705,300, Cl. 283-91.000.
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Dakin, W. Ray; and Browne, John F. N., 4,701,603, Cl. 250-201.000.
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Posin, Thomas; and Lawson, Daniel D., 4,636,212, Cl. 623-6.000.

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Stahl, Bernhard; and Bohm, Horst, 4,697,800, Cl. 269-32.000.

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Hellstrom, Lars, 4,707,949, Cl. 51-284.00R.

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Chapman, Robert E., 4,690,186, Cl. 144-176.000.

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Bracht, Roger R., 4,680,594, Cl. 346-108.000.
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Green, Donald E., 4,671,901, Cl. 260-404.500.
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Goldemberg, Robert L.; Lazare, Allan J.; and Berger, Richard, 4,657,758, Cl. 424-49.000.
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ngardner, Merle R., 4,714,514, Cl. 156-391.000.
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Orecchio, Nicholas L., to United Technologies Corporation. Cable jacket slitting apparatus. 4,665,616, 5-19-87, Cl. 30-90.400.
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Devletian, Jack H., 4,672,164, Cl. 219-96.000.
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Orenstein, Henry. Appendage, operated toy. 4,684,354, 8-4-87, Cl. 446-130.000.
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Orero, Francisco O.; and Garcia, Augusto M. Flag having a support pedestal. 4,679,523, 7-14-87, Cl. 116-173.000.
Oretsky, Philip H.; and Fogelman, Jack. Method for playing an alignment game utilizing a moveable grid. 4,647,049, 3-3-87, Cl. 273-264.000.
Orfus Limited: *See*—
Eriksson, Lars; and Knight, Brian V., 4,686,801, Cl. 52-81.000.
Orfus Limited of Grand Bahama Island: *See*—
Knight, Brian V., 4,665,664, Cl. 52-81.000.
Org, Tiit A.: *See*—
Teder, Leonid O.; Org, Tiit A.; Lauri, Vamo G.; and Aas, Ants J., 4,637,102, Cl. 24-642.000.
Organogen Medizinisch-Molekularbiologische Forschungsgesellschaft m.b.H.: *See*—
Scheefers, Hans, 4,716,122, Cl. 436-532.000.
Organon Teknika Corporation: *See*—
Barone, David, 4,680,122, Cl. 210-637.000.
Orient Chemical Industries, Ltd.: *See*—
Akiyama, Kazutoshi; and Ono, Takashi, 4,649,174, Cl. 524-841.000.
Akiyama, Kazutoshi; Ono, Takashi; and Yagyu, Tatsuya, 4,666,519, Cl. 106-22.000.
Fukumoto, Hiroshi; Tanaka, Katsuhiko; and Kawagishi, Yoji, 4,673,631, Cl. 430-110.000.
Kawagishi, Yoji; Narita, Shinichi; Kiriu, Takashi; and Uomoto, Kenji, 4,656,112, Cl. 430-110.000.
Ohshima, Tetsuya; Senshu, Hisashi; Matsuyama, Takeshi; Kawagishi, Yoji; Andoh, Takuo; and Kiryu, Takashi, 4,656,113, Cl. 430-137.000.
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Oriental Electric Co., Ltd.: *See*—
Ohashi, Minoru; Arakawa, Nobuhiko; Asahara, Tomoko; and Sakamoto, Shuichi, 4,650,752, Cl. 435-15.000.
Oriental Motor Co., Ltd.: *See*—
Satomi, Hirofumi, 4,663,577, Cl. 318-696.000.
Oriental Yeast Co., Ltd.: *See*—
Nakatomi, Yasuo; Hara, Katsuhiko; Umeda, Fumio; Kono, Toshiaki; and Niimoto, Hisashi, 4,693,898, Cl. 426-19.000.
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Yokoyama, Tadashi; Kaizuka, Toshio; Naito, Junichi; Numazawa, Kenichi; Ohashi, Minoru; and Kikuchi, Tomoo, 4,665,736, Cl. 73-19.000.

Origgi, Pietro: *See*—
Brichta, Corrado; Vezzoli, Annibale; and Origgi, Pietro, 4,666,947, Cl. 521-79.000.

Origin Company Limited: *See*—
Wada, Yoneji, 4,645,597, Cl. 210-222.000.
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Orihara, Motoi: *See*—
Tosaka, Hachiro; Yamaguchi, Kimitoshi; and Orihara, Motoi 4,670,368, Cl. 430-106.600.

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Saitoh, Masahiko; Seki, Gen; Hayashi, Seiichi; and Orihara, Yasunori, 4,675,756, Cl. 360-71.000.

Orihashi, Tadaaki; Tsuji, Hiroshi; Ogawa, Kazuhiko; Hayashitani, Masao; Terada, Seiji; Miyagawa, Tsugio; and Isozaki, Hideo, to Jushitsuyu Taisaku Gijutsu Kenkyu Kumiai. Process for thermal cracking of residual oils. 4,673,486, 6-16-87, Cl. 208-86.000.

Orihiro Co., Ltd.: *See*—
Oki, Yasuo, 4,662,978, Cl. 156-498.000.

Orihiro Kabushiki Kaisha: *See*—
Shimoyama, Mamoru; and Hoshina, Isamu, 4,656,818, Cl. 53-551.000.

Orii, Kohei: *See*—
Ueda, Koutarou; Hasegawa, Noboru; Machihara, Akio; Kusaka, Masaharu; Orii, Kohei; and Noguchi, Yoshiro, 4,692,197, Cl. 156-189.000.

Orii, Koichi; Nishida, Masashi; Yagi, Junsuke; and Ohshima, Iwao, to Nitto Chemical Industry Co., Ltd.; and Mitsubishi Rayon Co., Ltd. Process for manufacturing high purity silica. 4,683,128, 7-28-87, Cl. 423-338.000.

Orii, Makoto; and Hayashi, Katsuhiko, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Spring drive device. 4,702,350, 10-27-87, Cl. 185-39.000.

Orii, Shingo; Hara, Hajime; Satoh, Tetsuo; Toya, Tomohiro; and Iida, Shigeki, to Nippon Oil Company, Ltd. High modulus cholesteric liquid crystal polyesters. 4,652,626, 3-24-87, Cl. 528-194.000.

Orii, Shingo: *See*—
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Kojima, Shinji; Suzuki, Hirokazu; and Orikasa, Yuichi, 4,654,255, Cl. 428-261.000.
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Orikawa, Michihiro: *See*—
Dan, Takuya; Orikawa, Michihiro; and Kojima, Hiroshi, 4,660,812, Cl. 267-140.100.
Uno, Takaaki; Dan, Takuya; and Orikawa, Michihiro, 4,702,346, Cl. 181-207.000.

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Fugier, Claude; Leroux, Michel; Normant, Jean F.; and Alexakis, Alexandre, 4,652,692, Cl. 585-600.000.

Orillo, Stephen, Jr.: *See*—
Wilger, John F.; Orillo, Stephen, Jr.; and Nakano, Gregory S., 4,682,631, Cl. 138-94.000.

Orimo, Katsumi: *See*—
Kawazoe, Hideyo; Iino, Akira; and Orimo, Katsumi, 4,707,173, Cl. 65-3.120.

Orimo, Masayuki; Mori, Kinji; and Miyamoto, Shoji, to Hitachi, Ltd. Structure detecting method for circular type transmission system. 4,677,615, 6-30-87, Cl. 370-89.000.

Orimo, Ryoichi: *See*—
Galle, Kevin; Orimo, Ryoichi; Sakurada, Masahiko; Banno, Taichi; and Manabe, Sugio, 4,634,576, Cl. 422-102.000.

Orimo, Taiji; Fukui, Tsugushi; and Fukumizu, Shinichi, to Kabushiki Kaisha Kobe Seiko Sho. Continuous mixer. 4,681,457, 7-21-87, Cl. 366-84.000.

Orimoto, Hiroyuki: *See*—
Aoki, Daiichi; Nakamura, Yoshinori; Orimoto, Hiroyuki; and Machida, Kazumi, 4,680,208, Cl. 428-35.000.

Orin Chemical Company: *See*—
Wright, Thomas C.; and Johnson, Grover L., 4,692,473, Cl. 521-72.000.

Orion Corporation: *See*—
Groth, Ronald W.; and Nowakowski, Robert J., 4,714,357, Cl. 384-312.000.

Orion Corporation, Ltd.: *See*—
Makela, Pirjo H.; Leinonen, Maija K.; Nurminen-Kalliokoski, Marjatta H.; and Saikku, Pekka A. I., 4,652,518, Cl. 435-7.000.

Orion Industries, Inc.: *See*—
Jachowski, Ronald E.; and Dickson, Donald C., 4,644,303, Cl. 333-134.000.
Jachowski, Ronald E., 4,660,004, Cl. 333-134.000.

Orion Kikai Kabushiki Kaisha: *See*—
Wakui, Akio; Usuda, Masahiro; and Nishizawa, Naotake, 4,669,307, Cl. 73-223.000.

Orion Research Inc.: *See*—
Becker, David; and Gelo, Mark, 4,667,523, Cl. 73-866.500.
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Gelo, Mark A.; Hirshberg, Moshe J.; and Goldring, Lionel S., 4,661,236, Cl. 204-420.000.
Gelo, Mark A.; and Hirshberg, Moshe J., 4,687,500, Cl. 65-36.000.

Orion Research Puerto Rico, Inc.: *See*—
Ross, James W., Jr.; Goldring, Lionel S.; and Riseman, John H., 4,672,042, Cl. 436-161.000.

Orion-yhtyma Oy: *See*—
Kinanen, Ilmari; and Ranne, Sulo, 4,691,595, Cl. 74-798.000.
Mustakallio, Kimmo K.; Sothmann, Gunnar A.; and Heikinheimo, Hanna-Maija, 4,699,929, Cl. 514-680.000.
Tammisalo, Erkki; Kanerva, Heikki; Aarnio, Jaakko; Wederhorn, Markku; and Laner, Kai, 4,646,335, Cl. 378-38.000.
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Oristaglio, Michael L.: *See*—
Devaney, Anthony J.; Oristaglio, Michael L.; and Wolf, Emil, 4,648,039, Cl. 364-421.000.

Orita, Keiichi; and Yamashita, Akira, to Tohoku Chemical Industries, Ltd. Grinding wheel. 4,654,051, 3-31-87, Cl. 51-298.000.

Orita, Miyahiko; Kobayashi, Yoshiki; and Kubo, Yutaka, to Hitachi, Ltd. System and method for preparing a recognition dictionary. 4,658,429, 4-14-87, Cl. 382-36.000.

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Oritani, Atsushi, to Fujitsu Limited. Constant-current source circuit and differential amplifier using the same. 4,636,742, 1-13-87, Cl. 330-256.000.

Oritani, Atsushi, to Fujitsu Limited. Decoder circuit. 4,651,029, 3-17-87, Cl. 307-449.000.

Orje, Christer H., to Broderna Holmbergs Fabriks AB. Lock for safety belts and lock tongue thereof. 4,704,771, 11-10-87, Cl. 24-574.000.

Orkin, Stanley S.; and Carlson, Craig L., to Kamatics Corporation. Composite material force or motion transmitting member. 4,704,918, 11-10-87, Cl. 74-579.00R.

Orkosalo, Jorma J., to Measurex Corporation. System and process for measuring ultrasonic velocity. 4,688,423, 8-25-87, Cl. 73-159.000.

Orlandi, Daniel A.: *See*—
Glass, Michael; Hoholick, Joseph; and Orlandi, Daniel A., 4,683,138, Cl. 426-5.000.

Orlandin, Vanis: *See*—
Alluto, Luigi; Delotto, Romeo; and Orlandin, Vanis, 4,645,124, Cl. 236-20.00A.
Delotto, Romeo; and Orlandin, Vanis, 4,646,963, Cl. 236-20.00A.

Orlandini, Paolo: *See*—
Lucci, Roberto; and Orlandini, Paolo, 4,697,846, Cl. 297-298.000.

Orlando, Alfred J., Jr. Electrical connector for tractor-trailer rig. 4,711,510, 12-8-87, Cl. 439-246.000.

Orlando, Carl. Heart and breathing alarm monitor. 4,657,025, 4-14-87, Cl. 128-671.000.

Orlando, John J., to Inco Alloys International, Inc. Sampling system for grinding mills. 4,653,335, 3-31-87, Cl. 73-863.850.

Orlando, John J., to Inco Alloys International, Inc. Rotary mill and a method of charging the mill. 4,679,736, 7-14-87, Cl. 241-25.000.

Orlando, Thomas W., to Alcor, Inc. Controlled atmosphere oven. 4,680,167, 7-14-87, Cl. 422-199.000.

Orlans, Itzhak, to Vehashkaya, Amida Sinun. Annular filter disc. 4,690,761, 9-1-87, Cl. 210-330.000.

Orlans, Itzhak, to Amiad Sinun Vehashkaya. Fluid filtering device. 4,692,247, 9-8-87, Cl. 210-314.000.

Orlek, Barry S.: *See*—
Gaster, Laramie M.; and Orlek, Barry S., 4,638,066, Cl. 544-344.000.

Orley's Manufacturing Co., Inc.: *See*—
Jencks, David R.; and Nelson, Mark R., 4,690,126, Cl. 126-77.000.

Orlita, Franz. Piston pump with rotating piston having a universal joint. 4,708,605, 11-24-87, Cl. 417-500.000.

Orlitzky, Anton. Lubricating apparatus. 4,671,386, 6-9-87, Cl. 184-39.000.

Orloff, Daniel L.: *See*—
Mally, Timothy G.; Hartl, Carroll P.; Orloff, Daniel L.; and Total, Robert V., 4,645,400, Cl. 414-28.000.

Orloff, Jonathan H.: *See*—
Puretz, Joseph; Orloff, Jonathan H.; DeFreez, Richard K.; and Elliott, Richard A., 4,698,129, Cl. 156-643.000.

Orlosky, Henry, to Techna Vision, Inc. Gasket for molding plastic lenses. 4,693,446, 9-15-87, Cl. 249-53.00R.

Orlova, Nadezhda P.: *See*—
Maximov, Gennady K.; Brusnikin, Arkady F.; Belonosov, Vladimir I.; Popova, Roza A.; Fux, Vladimir S.; Kagan, Vladimir M.; Uralskaya, Silvia L.; and Orlova, Nadezhda P., 4,702,069, Cl. 57-417.000.

Orlowski, David C. Sealing rings with complimentary ring members. 4,706,968, 11-17-87, Cl. 277-53.000.

Orlowski, Gerald J. Metal alloy. 4,645,644, 2-24-87, Cl. 420-587.000.

Orlowski, Jan A.; and Butler, David V., to Scientific Pharmaceuticals, Inc. Method for repairing of veneered dental cast restoration. 4,648,845, 3-10-87, Cl. 433-217.100.

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Corporation: *See—*
stein, Leonard; and Brown, Bernard, 4,664,160, Cl. 141-67.000.
Herbert S., III: *See—*
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III, 4,707,483, Cl. 514-273.000.
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Gary J.: *See—*
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mergency lighting for elevator cab. 4,708,223, 11-24-87, Cl.
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manidis, Gregory G.; Lee, Sam S.; Wolff, Thomas E.; and
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Kurt; and Orner, Angelika, 4,683,248, Cl. 521-96.000.
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Ferdinando, 4,672,724, Cl. 24-616.000.
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S. Knockdown furnitures and the structural components
4,701,065, 10-20-87, Cl. 403-263.000.
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161, Cl. 514-654.000.
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as applications. 4,652,000, 3-24-87, Cl. 277-73.000.
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Y support. 4,676,011, 6-30-87, Cl. 36-89.000.
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917, Cl. 252-51.50A.
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crusher. 4,679,740, 7-14-87, Cl. 241-189.00R.
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pin, Edward J., 4,667,687, Cl. 131-94.000.
Wendy A.: *See—*
Bao-Tai; Orr-Arienzo, Wendy A.; and Glang, Reinhard,
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nology Corporation. Prolonging the shelf life of fresh root
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Orr, Bruce B.: *See—*
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Orr, Clyde, Jr.: *See—*
Killip, Graham R.; Camp, Ronnie W.; and Orr, Clyde, Jr., 4,693,124, Cl. 73-863.110.
Orr, Douglas P., to Mallinckrodt, Inc. Catheter with insufflation lumen. 4,674,495, 6-23-87, Cl. 128-207.140.
Orr, Ladd J.; and Tuss, John J., to Warner & Swasey Company, The. Coordinate measuring machine with covers. 4,680,868, 7-21-87, Cl. 33-503.000.
Orr, Peter M.: *See—*
Armond, Paul A.; and Orr, Peter M., 4,677,246, Cl. 800-1.000.
Orr, Robert B.; and Chicosky, Leon, Jr., to Seton Company. Method of frothing aqueous ionic polyurethane dispersions and products produced therefrom. 4,690,953, 9-1-87, Cl. 521-65.000.
Orr, Stephen M.: *See—*
Maccarone, Anthony J.; and Orr, Stephen M., 4,679,702, Cl. 220-90.200.
Orr, Thomas F., to British Nuclear Fuels plc. Inspection apparatus. 4,657,145, 4-14-87, Cl. 209-698.000.
Orr, William L.; Doshi, Pratap K.; Mildrum, Claude M.; and Freeman, Thomas R., to Westinghouse Electric Corp. Control rod cluster arrangement. 4,642,216, 2-10-87, Cl. 376-327.000.
Orr, Zsuzsanna: *See—*
Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.
Orrell, William B.: *See—*
Creps, Wendell D.; and Orrell, William B., 4,656,829, Cl. 60-277.000.
Orrestad, Charles W.: *See—*
Peterman, Stanley; Orrestad, Charles W.; and Iwanczuk, Paul, 4,637,672, Cl. 339-61.00R.
Orrico, Mario M. V.: *See—*
Gut, Edward B.; and Orrico, Mario M. V., 4,705,066, Cl. 137-486.000.
Orrling, Bengt, to ASEA Aktiebolag. Self-baking electrodes. 4,696,014, 9-22-87, Cl. 373-89.000.
Orrville Products, Inc.: *See—*
Craver, Richard D., 4,672,944, Cl. 126-77.000.
Ors, Jose A.; and Scarlata, Suzanne F., to AT&T Technologies, Inc. Non-destructive method for determining the extent of cure of a polymer. 4,651,011, 3-17-87, Cl. 250-459.100.
Orsburn, Michael L.; Hemsky, Robert L.; and Bacon, James L., to VTA Technologies, Inc. Phase responsive composite video signal control system. 4,642,682, 2-10-87, Cl. 358-80.000.
Orsburn, Michael L.: *See—*
Fearing, Craig; and Orsburn, Michael L., 4,710,800, Cl. 358-22.000.
Orsello, Gianmichele: *See—*
Ginatta, Marco V.; and Orsello, Gianmichele, 4,670,121, Cl. 204-225.000.
Orsi, Franco: *See—*
Simone, Giovanni; and Orsi, Franco, 4,669,908, Cl. 403-170.000.
Orsini, Jean: *See—*
Coates, Fredrica V.; Jannoni, Richard; and Orsini, Jean, 4,680,030, Cl. 604-391.000.
Orsini, Jean-Francois. Umbrella hat with elastic peripheral components. 4,675,916, 6-30-87, Cl. 2-209.100.
Orsini, Mario: *See—*
Galati, Gaspare; and Orsini, Mario, 4,712,109, Cl. 342-159.000.
Orsini, Milagros C.; and Spector, George. ECO set didactic blocks/-cubes. 4,643,683, 2-17-87, Cl. 434-403.000.
Orsolini, Piero; Mauvernay, Rolland-Yves; and Deghenghi, Romano, to Debiopharm, S.A. Microencapsulation by phase separation of water-soluble medicaments. 4,673,595, 6-16-87, Cl. 427-213.320.
Orszulak, James H.: *See—*
Wertz, Ronald D.; Orszulak, James H.; and Sweeney, Christopher L., 4,680,599, Cl. 340-744.000.
Ort, Philip. Hair treatment and conditioner. 4,652,445, 3-24-87, Cl. 424-70.000.
Ortalli, Patrice: *See—*
Frappe, Gerard; and Ortalli, Patrice, 4,703,250, Cl. 323-317.000.
Orte, Sven E. V., to SKF Industrial Trading and Development Co. B.V. Brush-type seals. 4,645,362, 2-24-87, Cl. 384-485.000.
Ortega, Domingo: *See—*
Bernard, Jean-Claude; Chabrier, Patrick; Tahon, Bernard; Tesoriere, Jean-Marc; and Ortega, Domingo, 4,639,929, Cl. 373-120.000.
Ortega, Jesse F.: *See—*
Ortega, Raymond; and Ortega, Jesse F., 4,661,159, Cl. 106-89.000.
Ortega, Raymond; and Ortega, Jesse F. Cementitious floor underlayment. 4,661,159, 4-28-87, Cl. 106-89.000.
Orth, Herbert, to Hermann Berstorff Maschinenbau GmbH. Device for enabling the changeover of a roller shell or casing. 4,649,631, 3-17-87, Cl. 29-700.000.
Orth, Peter: *See—*
Eichenauer, Herbert; Lindner, Christian; Ott, Karl-Heinz; Orth, Peter; and Hocker, Hartwig, 4,699,967, Cl. 528-29.000.

Orth, Richard A.: *See*—
Neidlinger, Hermann H.; Schissel, Paul O.; and Orth, Richard A., 4,659,590, Cl. 427-244.000.

Orth, Winfred; Schrader, Karl-Heinz; and Fickert, Werner, to Ruetgerswerke Aktiengesellschaft. Hair dyeing agents. 4,661,115, 4-28-87, Cl. 8-409.000.

Orth, Winfried: *See*—
Maurer, Manfred; Orth, Winfried; and Fickert, Werner, 4,659,846, Cl. 549-464.000.

Orth, Winifried: *See*—
Maurer, Manfred; Orth, Winifried; and Fickert, Werner, 4,659,830, Cl. 546-6.000.

Orthey, Gebhard: *See*—
Weid, Helmut; and Orthey, Gebhard, 4,667,410, Cl. 30-347.000.

Orthey, Gerhard, to Wolf-Gerate GmbH. Manual sowing apparatus for fine and coarse seed. 4,650,090, 3-17-87, Cl. 221-185.000.

Ortho Diagnostic Systems Inc.: *See*—
Brown, Michael C.; and Kirchanski, Stefan J., 4,637,986, Cl. 436-10.000.
Chan, Joseph L. W., 4,666,862, Cl. 436-501.000.
Gershman, Russell J.; Hoffman, Robert A.; and O'Connell, J. Garland, 4,665,553, Cl. 382-6.000.
Hall, Shelby J.; Olekna, David J.; and Davies, Donald M., Jr., 4,698,311, Cl. 436-10.000.
Hansen, W. Peter, 4,661,451, Cl. 435-174.000.
Kamentsky, Louis A., 4,647,531, Cl. 435-7.000.
Kramer, Peter B., 4,681,859, Cl. 436-501.000.
Kramer, Peter B.; and Hansen, W. Peter, 4,689,310, Cl. 436-712.000.
Li, Conan K. N., 4,661,444, Cl. 435-7.000.
Wu, Ying-Jye; and Chan, Joseph L. W., 4,689,398, Cl. 530-327.000.

Ortho Pharmaceutical (Canada) Ltd.: *See*—
Lau, Catherine Y., 4,705,687, Cl. 424-95.000.

Ortho Pharmaceutical Corporation: *See*—
Bandurco, Victor T.; Mallory, Robert A.; Press, Jeffrey B.; and Werblood, Harvey M., 4,634,769, Cl. 544-285.000.
Bandurco, Victor T.; Bell, Stanley C.; Combs, Donald W.; Falotico, Robert; and Tobia, Alfonso J., 4,639,518, Cl. 544-285.000.
Bandurco, Victor T.; Levine, Seymour D.; Mulvey, Dennis M.; and Tobia, Alfonso J., 4,656,267, Cl. 544-119.000.
Bandurco, Victor T.; Bell, Stanley C.; Falotico, Robert; Schwender, Charles F.; and Tobia, Alfonso J., 4,668,787, Cl. 544-286.000.
Bandurco, Victor T.; Bell, Stanley C.; Dodd, John H.; Falotico, Robert; Schwender, Charles F.; and Tobia, Alfonso J., 4,672,116, Cl. 544-286.000.
Bandurco, Victor T.; Schwender, Charles F.; Falotico, Robert; and Tobia, Alfonso J., 4,711,883, Cl. 514-253.000.
Conley, Richard A., 4,645,836, Cl. 544-286.000.
Conley, Richard A., 4,658,054, Cl. 562-453.000.
Ferro, Michael P.; and Wachter, Michael P., 4,665,092, Cl. 514-459.000.
Frazier, Thomas A.; and Lowe, Allen D., 4,646,936, Cl. 221-5.000.
Frazier, Thomas A.; and Lowe, Allen D., 4,667,845, Cl. 221-5.000.
Jiang, Jack B.; and Isaacson, David, 4,656,274, Cl. 544-250.000.
Kanojia, Ramesh M.; Falotico, Robert; Tobia, Alfonso J.; and Press, Jeffery B., 4,714,705, Cl. 514-309.000.
Kung, Patric C.; and Goldstein, Gideon, 4,637,983, Cl. 435-240.000.
Kung, Patrick C.; and Goldstein, Gideon, 4,652,447, Cl. 424-85.000.
Kung, Patrick C.; and Goldstein, Gideon, 4,654,210, Cl. 424-85.000.
Kung, Patrick C.; and Goldstein, Gideon, 4,657,760, Cl. 424-85.000.
Kung, Patrick C.; and Goldstein, Gideon, 4,658,019, Cl. 530-387.000.
Kung, Patrick C.; and Goldstein, Gideon, 4,658,020, Cl. 530-387.000.
Kung, Patrick C.; and Goldstein, Gideon, 4,680,383, Cl. 530-387.000.
Kung, Patrick C.; and Goldstein, Gideon, 4,691,010, Cl. 530-387.000.
Kung, Patrick C.; and Goldstein, Gideon, 4,709,015, Cl. 530-387.000.
Murray, William V.; and Wachter, Michael P., 4,681,894, Cl. 514-507.000.
Pascone, John M., 4,713,480, Cl. 560-157.000.
Porubcan, Linda S., 4,681,759, Cl. 424-80.000.
Press, Jeffery B.; and Russell, Ronald K., 4,670,560, Cl. 544-278.000.
Press, Jeffery B., 4,703,120, Cl. 544-278.000.
Press, Jeffery B.; and Russell, Ronald K., 4,707,550, Cl. 544-379.000.
Rosenthale, Marvin E.; Shriver, David A.; and Katz, Laurence B., 4,707,495, Cl. 514-530.000.
Schwender, Charles F.; and Dodd, John H., 4,705,785, Cl. 514-211.000.

Orthomatic Limited: *See*—
Morrison, Ronald F., 4,633,539, Cl. 5-508.000.

Orthomatrix Inc.: *See*—
Lin, Steve T.; Conjeevaram, Seshadri; and Henderson, Don J., 4,645,503, Cl. 623-16.000.
Vit, Jaroslav; Salsbury, Ronald L.; and Henderson, Don J., 4,693,986, Cl. 501-1.000.

Orthomedics, Inc.: *See*—
Clover, William M., Jr., 4,693,239, Cl. 128-80.00F.

Orthopedic Specialties, Inc.: *See*—
Lundeen, Richard O., 4,676,801, Cl. 623-53.000.

Orthoplant Endoprothetik GmbH. *See*—
Schelhas, Klaus-Dieter; and Bielil, Gerd, 4,715,859, Cl. 623-22.000.

Orthotronics, Inc.: *See*—
Linial, Andrew V.; Hoyt, John M.; Luban, Dennis D.; and Cullen, James M., 4,665,928, Cl. 128-782.000.

Orthotronics Limited Partnership: *See*—
Fraser, Gregory A.; and Raab, Simon, 4,667,520, Cl. 73-862.040.

Orthuber, Wolfgang; and Fischer-Brandies, Helge. Dental apparatus for bending and twisting wire pieces. 4,656,860, 4-14-87, Cl. 72-299.000.

Ortiz, Angel L., Jr., to General Electric Company. Integrated robotic laser material processing and imaging system. 4,673,795, 6-16-87, Cl. 219-121.00L.

Ortlepp, Hilmar: *See*—
Becker, Manfred; and Ortlepp, Hilmar, 4,664,356, Cl. 251-175.000.

Ortloff, Donald J., to Hydril Company. Seal for threaded pipe connection. 4,671,544, 6-9-87, Cl. 285-334.000.

Ortloff, Donald J.; and Landriault, L. Steven, to Hydril Company. Well pipe joint. 4,688,832, 8-25-87, Cl. 285-175.000.

Ortloff, Donald J.; and Reeves, Doyle E., to Hydril Company. Threaded pipe connection having wedge threads. 4,703,954, 11-3-87, Cl. 285-115.000.

Ortloff, Donald J.: *See*—
Blose, Thomas L.; Chelette, K. Darrel; Ortloff, Donald J.; and Reeves, Doyle E., 4,662,659, Cl. 285-334.000.

Ortloff, John E., to Exxon Production Research Co. Apparatus for quick-release of a storage vessel from a riser. 4,677,930, 7-7-87, Cl. 114-230.000.

Ortmanns, Gunter: *See*—
Mattes, Gunther; and Ortmanns, Gunter, 4,707,382, Cl. 427-168.000.

Ortolano, Ralph J. Sleeve connectors for turbines. 4,662,824, 5-5-87, Cl. 416-196.00R.

Ortolano, Ralph J. Connected turbine shrouding. 4,710,102, 12-1-87, Cl. 416-190.000.

Ortopedia GmbH: *See*—
Gotzen, Leo; and Brudermann, Uwe, 4,662,365, Cl. 128-92.0ZW.

Ortwein, Heinz: *See*—
Castagna, Wolfgang; Krankenhagen, Jochen; Ortwein, Heinz; and Weertz, Klaus, 4,690,081, Cl. 112-276.000.

Ortwein, Hermann; Krettek, Ottmar; and Nicolin, Johannes, to Clouth Gummiwerke Aktiengesellschaft. Wheel set for rail vehicles. 4,637,646, 1-20-87, Cl. 295-37.000.

Ortwein, Hermann, to Clouth Gummiwerke Aktiengesellschaft. Elastic mat for a ballast bed underlayment. 4,696,429, 9-29-87, Cl. 238-2.000.

Oruh, Samuel N.: *See*—
Bowe, Michael J.; Oruh, Samuel N.; and Singh, Jaswant, 4,693,827, Cl. 210-255.000.

Orui, Ryuzo: *See*—
Kageyama, Takao; and Orui, Ryuzo, 4,682,076, Cl. 315-4.000.

Orvik, Jon A.; and Dietsche, Thomas J., to Dow Chemical Company, The. Polychloropyridine production from polychloro-2,3-lutidines. 4,705,859, 11-10-87, Cl. 546-345.000.

Orvik, Jon A.: *See*—
DesJardin, Michael A.; Dietsche, Thomas J.; and Orvik, Jon A., 4,713,460, Cl. 546-345.000.

Orwin, John P. Strap device for reinforcing luggage and the like. 4,700,818, 10-20-87, Cl. 190-27.000.

O'Ryan, David E.: *See*—
Hollstein, Thomas E.; O'Ryan, David E.; and Waryu, Joseph C., 4,634,058, Cl. 239-697.000.

OS Plastic A/S: *See*—
Hougard, Erling, 4,658,540, Cl. 47-67.000.

Osa AB: *See*—
Forslund, Torsten, 4,665,961, Cl. 144-2.00Z.

Osabe, Akira: *See*—
Yokota, Yuji; and Osabe, Akira, 4,641,212, Cl. 360-99.000.

Osada, Akira: *See*—
Suzuki, Fujiyuki; and Osada, Akira, 4,697,559, Cl. 123-325.000.

Osada, Hideharu. Flexible mold for forming simulated tile or brick surfaces. 4,647,000, 3-3-87, Cl. 249-83.000.

Osada, Hidenori; and Koseki, Ryoji, to Amada Engineering & Service Co., Inc. High speed axial flow type gas laser oscillator. 4,660,209, 4-21-87, Cl. 372-58.000.

Osada, Hiroshi, to Nifco Inc. Device for setting screw. 4,704,929, 11-10-87, Cl. 81-451.000.

Osada, Hiroshi, to Nifco Inc. Device for binding wires or the like. 4,705,245, 11-10-87, Cl. 248-74.300.

Osada, Masahiko: *See*—
Yoshino, Yasuhisa; and Osada, Masahiko, 4,691,361, Cl. 381-81.000.

Osada, Naomi: *See*—
Kato, Shigeru; Osada, Naomi; Ichitoh, Toshikatsu; Murata, Masao; and Mochizuki, Masfumi, 4,641,151, Cl. 346-76.0PH.

Osada, Shinichi: *See*—
Makino, Takao; and Osada, Shinichi, 4,641,331, Cl. 378-108.000.

Osada, Soichi; Inoue, Hirokatsu; Shimizu, Chuji; Onodera, Yasuaki; Kobayashi, Ken-ichi; Kozima, Kazuo; and Shioda, Shigeyoshi, to Fukuda Denshi Co., Ltd.; and Japan Metals and Chemicals Co., Ltd. Electrocardiographic amorphous alloy electrode. 4,653,500, 3-31-87, Cl. 128-639.000.

Osada, Toshiyuki: *See*—
Saitoh, Michihiro; Gogami, Takatoshi; and Osada, Toshiyuki, 4,692,799, Cl. 358-106.000.

Osada, Yoshiyuki; Tsuda, Hisanori; Sano, Masafumi; Omata, Satoshi; Takasu, Katsuji; and Hirai, Yutaka, to Canon Kabushiki Kaisha. Method for forming deposited film. 4,645,684, 2-24-87, Cl. 427-38.000.

hiyuki: *See*—
ura, Takashi; Hatanaka, Katsunori; Omata, Satoshi; and
la, Yoshiyuki, 4,675,667, Cl. 340-784.000.
laruo; Kanbe, Sadao; Mori, Teiichiro; and Ikejiri, Masahisa,
Epson Kabushiki Kaisha. Method of preparing tubular silica
80,045, 7-14-87, Cl. 65-17.000.
laruo: *See*—
o, Nobutaka; Motoki, Masanobu; Itoh, Yoshitaka; Kanbe,
ao; and Osafune, Haruo, 4,680,046, Cl. 65-17.000.
i, Masanobu; Matsuo, Nobutaka; Kanbe, Sadao; Osafune,
uo; and Itoh, Yoshitaka, 4,680,048, Cl. 65-17.000.
Koji: *See*—
Masaki; and Osafune, Koji, 4,709,279, Cl. 360-78.000.
mond Industrial Co.: *See*—
kita, Takao; and Miyao, Ichiro, 4,689,919, Cl. 51-206.00P.
ter Co., Ltd.: *See*—
Kenkichi; Matsui, Takao; and Murakami, Toshio, 4,658,950,
198-577.000.
i Kogyo Co., Ltd.: *See*—
, Yukitomo, 4,654,477, Cl. 174-128.00R.
s Company Limited: *See*—
, Akihiko; and Tsuka, Masahiro, 4,689,552, Cl. 324-546.000.
da, Yoshiaki; Okino, Teizou; Mathura, Hiroyuki; Doi,
suhumi; and Yamasaki, Kenichi, 4,654,149, Cl. 210-763.000.
da, Yoshiaki; Nakashiba, Akio; Matuura, Hiroyuki; Okino,
izou; Fujitani, Hajime; Yamasaki, Kenichi; Doi, Yasuhumi;
d Yurugi, Shigenobu, 4,699,720, Cl. 210-762.000.
i, Akira; and Tsunokawa, Shinya, 4,638,975, Cl. 251-149.600.
i, Makihiko; Kibe, Satoshi; and Maeda, Toyohiro, 4,640,761,
208-44.000.
ita, Yutaka; Katayama, Masayoshi; and Kato, Takashi,
648,281, Cl. 73-861.910.
ma, Takashi; Matsumoto, Kiyokazu; and Shibabuchi, Toshio,
674,775, Cl. 285-330.000.
Kanagu Co., Ltd.: *See*—
ami, Saburo, 4,709,564, Cl. 70-25.000.
Keiji; Usui, Yuichi; and Yanagi, Tooru, to Sumitomo Electric
tries, Ltd. Method of and apparatus for coupling multicore
d optical fibers. 4,715,876, 12-29-87, Cl. 65-4.210.
Municipal Government: *See*—
ue, Hiroshige; Fukushima, Kenichi; and Nishiguchi, Ikuzo,
634,768, Cl. 544-151.000.
Norihisa: *See*—
ao, Shoji; Nakamoto, Hideo; Osaka, Norihisa; Takesue, Masato-
hi; Kodama, Hitoshi; Suzuki, Kinuko; and Inomoto, Masataka,
deceased, 4,704,328, Cl. 428-324.000.
Prefecture, Horonobu Oonishi and Kyocera Corporation: *See*—
ani, Eiji; Okabe, Hirobumi; Ike, Hideo; Uratani, Fumihiro; Ota,
Takashi; Kaneda, Hiroshi; Hanatate, Yuko; Hamada, Tadashi;
and Oonishi, Hironobu, 4,668,585, Cl. 428-469.000.
Seimitsu Kikai Kabushiki Kaisha: *See*—
onda, Toshio; and Tsujiuchi, Junpei, 4,657,396, Cl. 356-394.000.
, Shigemi: *See*—
aruki, Takehiko; Osaka, Shigemi; and Aikawa, Norikazu,
4,664,894, Cl. 423-265.000.
Soda Co., Ltd.: *See*—
amiya, Takeshi; Matsuura, Kazuo; Miyoshi, Mituji; Misumi,
Kozo; Kadomatsu, Seiji; and Nose, Shinji, 4,652,616, Cl.
525-331.700.
hara, Katsuhito; and Nakata, Tetsuya, 4,711,950, Cl. 528-409.000.
amaoka, Noboru; Yokoyama, Shigeki; Matsuura, Kazuo; Misumi,
Kozo; Watanabe, Junichi; and Kadomatsu, Seiji, 4,704,439, Cl.
525-334.100.
amazaki, Taro, 4,696,764, Cl. 252-503.000.
a, Susumu; and Sagawa, Midori, to RCA Corporation. Venetian
nd construction. 4,664,169, 5-12-87, Cl. 160-107.000.
a Taiyu Co., Ltd.: *See*—
Okada, Minoru, 4,704,946, Cl. 91-7.000.
Tabayashi, Yoshikazu, 4,659,050, Cl. 248-349.000.
a, Takeshi. System for guiding the blind. 4,660,022, 4-21-87, Cl.
0-407.000.
a Trunk Material Co., Ltd.: *See*—
Murase, Mikio, 4,691,540, Cl. 70-68.000.
a University: *See*—
Fujita, Hiroshi; and Sumida, Naoto, 4,668,527, Cl. 427-35.000.
Fujita, Hiroshi; and Sumida, Naoto, 4,670,292, Cl. 427-35.030.
Komatsu, Masao; and Fujita, Hiroshi, 4,637,927, Cl. 423-644.000.
Komatsu, Masao; and Fujita, Hiroshi, 4,639,363, Cl. 423-644.000.
Mori, Hirotaro; and Fujita, Hiroshi, 4,670,291, Cl. 427-35.000.
Yoshida, Kunio; Yamanaka, Chiyoe; Sasaki, Takatomo; and
Shimomura, Osamu, 4,670,117, Cl. 204-182.400.
a Vacuum, Ltd.: *See*—
Sawada, Tadashi; Ikegami, Tatsuji; and Iguchi, Masashi, 4,708,586,
Cl. 415-72.000.
a Yuki Kagaku Kogyo Kabushiki Kaisha: *See*—
Kato, Chuzo, 4,652,436, Cl. 423-406.000.
ta, Yukio: *See*—
Hirose, Masataka; Yamanishi, Masamichi; Osaka, Yukio; Ae, Tada-
shi; Ichikawa, Tadao; Yoshida, Noriyoshi; and Suemune, Ikuo,
4,672,577, Cl. 365-114.000.
zabe, Mitsuo, to Starting Industry Company Limited. Recoil starter.
637,360, 1-20-87, Cl. 123-185.00A.
zabe, Nobuyuki: *See*—
Endo, Junji; Tonomura, Akira; Ozasa, Susumu; Matsuda, Tsuyoshi;
Kimura, Chikara; and Osakabe, Nobuyuki, 4,642,461, Cl.
250-311.000.
Osakama, Chikashi: *See*—
Yanata, Saki; Maruyama, Takahito; and Osakama, Chikashi,
4,654,673, Cl. 346-76.0PH.
Osaki, Shigemi: *See*—
Konishi, Toshiharu; Shimizu, Yukio; Sakuramoto, Takahumi;
Morishita, Tsuyoshi; and Osaki, Shigemi, 4,681,733, Cl.
419-8.000.
Osaki, Shigeyoshi; and Nagata, Shin-ichi, to Kanzaki Paper Mfg. Co.,
Ltd. Method of detecting and sorting pieces of insulating materials
admixed in small pieces of conductive materials. 4,685,569, 8-11-87,
Cl. 209-571.000.
Osaki, Shigeyoshi; and Fujii, Yoshihiko, to Kanzaki Paper Manufactur-
ing Co., Ltd. Method of measuring orientation or dielectric charac-
teristic of dielectric sheets or webs. 4,710,700, 12-1-87, Cl. 324-
58.50A.
Osaki, Sigemi; Yousina, Norio; Morishita, Tsuyoshi; and Kawado,
Yasuhumi, to Mazda Motor Corporation. Process for forming a
sintered layer on a substrate of iron-based material. 4,678,633, 7-7-87,
Cl. 419-8.000.
Osaki, Sigemi: *See*—
Morishita, Tsuyoshi; Osaki, Sigemi; Sakai, Noriyuki; Shimizu,
Yukio; Konishi, Toshiharu; and Sakuramoto, Takahumi,
4,670,215, Cl. 419-9.000.
Morishita, Tsuyoshi; Osaki, Sigemi; and Sakai, Noriyuki, 4,690,320,
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Morishita, Tuyoshi; Kawado, Yasuhumi; Osaki, Sigemi; and Sakai,
Noriyuki, 4,646,811, Cl. 164-103.000.
Osako, Kyoichi: *See*—
Kokubo, Eiichi; Osako, Kyoichi; Hirata, Akira; Oshita, Mizuo; Ito,
Toshiaki; Seki, Kazuyuki; Yoshikawa, Eiichi; and Miyazaki,
Osamu, 4,699,272, Cl. 209-534.000.
Osamu, Nakano: *See*—
Hashimoto, Kenki; Doi, Haruo; Tokuzou, Tsujimoto; Osamu,
Nakano; and Minoru, Nobuki, 4,661,316, Cl. 420-418.000.
Osanai, Akinori; and Niwa, Takao, to Toyota Jidosha Kabushiki Kai-
sha. Apparatus for controlling continuously variable transmission.
4,642,068, 2-10-87, Cl. 474-11.000.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, to Toyota Jidosha
Kabushiki Kaisha. Apparatus for controlling continuously variable
transmission. 4,649,485, 3-10-87, Cl. 364-424.100.
Osanai, Akinori; Gono, Takeshi; and Niwa, Takao, to Toyota Jidosha
Kabushiki Kaisha. Method and apparatus for controlling continu-
ously variable transmission for vehicle. 4,649,487, 3-10-87, Cl.
364-424.100.
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performing control during acceleration in continuously variable
transmission system for vehicle. 4,704,683, 11-3-87, Cl. 364-424.100.
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Arikawa, Junichi; Chiba, Hiroshi; Miyazaki, Osamu; and Osanai,
Masatoshi, 4,639,582, Cl. 235-379.000.
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Yamada, Takeshi; Osato, Yasukuni; and Watanabe, Okosu,
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Osato, Yoichi; and Misumi, Teruo, 4,636,450, Cl. 430-84.000.

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Noma, Akira; and Osawa, Izumi, 4,699,864, Cl. 430-100.000.

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Tsuchiya, Hiroaki; Tanaka, Kazuki; and Osawa, Keishi, 4,680,669, Cl. 361-230.000.

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Hiramatsu, Tooru; Tami, Kazuya; and Osawa, Kozo, 4,648,335, Cl. 112-114.000.

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Kohyama, Mitsuaki; Ishida, Haruhiko; Kasai, Toshihiro; and Osawa, Shigenobu, 4,647,181, Cl. 355-4.000.

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Osawa, Toshihiko: *See*—
Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko, 4,649,206, Cl. 549-435.000.
Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko, 4,708,820, Cl. 252-398.000.

Osawa, Yoshitaka: *See*—
Kohjiya, Shinzo; Yamashita, Shinzo; Irie, Masahiro; Osawa, Yoshitaka; and Uemiya, Takafumi, 4,656,245, Cl. 528-405.000.

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Osborg, Hans. Motor fuel compositions and methods. 4,695,292, 9-22-87, Cl. 44-64.000.

Osborn, Coy D.: *See*—
Wilson, Buddy A.; and Osborn, Coy D., 4,693,278, Cl. 138-89.000.

Osborn, Jack S. Golf club grip cleaner. 4,676,839, 6-30-87, Cl. 134-25.400.

Osborn, James G.: *See*—
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Anderson, J. Edward C.; and Osborn, Merritt A., 4,640,117, Cl. 72-410.000.

Osborn, Paul R.: *See*—
Swinkels, Dominicus A.; Fredericks, Peter M.; and Osborn, Paul R., 4,701,838, Cl. 364-164.000.

Osborn, Paul V., to Mobil Oil Corporation. Lightweight tarpaulin. 4,682,447, 7-28-87, Cl. 52-3.000.

Osborn, Robert: *See*—
Lincoln, Andrew J.; Osborn, Robert; and Dreher, Geoffrey A., 4,646,259, Cl. 364-900.000.

Osborn, Ronnie M.: *See*—
Oswald, Norman D.; Mankey, Harry S.; Franklin, Carl M.; Wilhelm, James M.; and Osborn, Ronnie M., 4,702,843, Cl. 280-707.000.

Osborn, Scott E.; Farrugia, Vincent J.; Plischke, LeMoyne W.; and Wu, Chester C., to Monsanto Company. Antimicrobial aylim prepared in water with zinc compound and phosphorus compound. 4,701,519, 10-20-87, Cl. 528-336.000.

Osborn, Wayne L.; and Neff, Monty L., to Didde Graphics Systems Corp. Punch retaining device. 4,688,459, 8-25-87, Cl. 83-698.000.

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Loeb, James B.; Osborne, Andrew J., Jr.; and Miglierini, Raul A., 4,662,460, Cl. 175-305.000.

Osborne, Anthony, to Kearney-National, Inc. Electric by-pass switch. 4,681,990, 7-21-87, Cl. 200-48.0KB.

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Osborne, Don. Three-point hitch loader. 4,687,407, 8-18-87, Cl. 414-703.000.

Osborne, Edward L., to Westvaco Corporation. Tray with reinforced corners. 4,702,409, 10-27-87, Cl. 229-125.000.

Osborne, Gary T.: *See*—
Sutherland, Hugh F., II; and Osborne, Gary T., 4,689,668, Cl. 358-74.000.

Osborne, John R.: *See*—
Bischoff, Peter G.; Rauch, David J.; Retort, Vincent D.; and Osborne, John R., 4,694,368, Cl. 360-126.000.

Osborne, Jon L., to Exxon Nuclear Company, Inc. Spacer capture tool to space grid attachment device. 4,692,303, 9-8-87, Cl. 376-446.000.

Osborne, Joseph A.; and Seiffert, Cindy. Narrow bandwidth signal transmission. 4,665,436, 5-12-87, Cl. 358-136.000.

Osborne, Lyle E. Hydraulic brake system. 4,691,520, 9-8-87, Cl. 60-593.000.

Osborne, Mark W., to FMC Corporation. Ammunition canister retaining straining latches. 4,667,816, 5-26-87, Cl. 206-3.000.

Osborne, Ronald P. Interlocking building block system. 4,651,485, 3-24-87, Cl. 52-284.000.

Osborne, Thomas A., to Cook, Incorporated. Flexible sheath assembly for an indwelling catheter. 4,634,433, 1-6-87, Cl. 604-171.000.

Osborne, Thomas L.: *See*—
Debus, Walter, Jr.; Osborne, Thomas L.; and Siller, Curtis A., Jr., 4,710,891, Cl. 364-718.000.

Osborne, William E., to Shelburne Family Trust. Laser sealing system. 4,699,684, 10-13-87, Cl. 156-379.600.

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Chaffin, Roger J.; and Osbourn, Gordon C., 4,688,068, Cl. 357-30.000.

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Reisman, Arnold; and Osburn, Carlton M., 4,667,404, Cl. 29-847.000.

Osburn, Robert R.: *See*—
Helfer, Jeffrey L.; and Osburn, Robert R., 4,647,419, Cl. 264-328.900.

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Anderson, James E.; and Holmes, Terry L., 4,640,219, Cl. 118-24.000.
Borsuk, Alvin, 4,709,449, Cl. 17-32.000.
Cornish, Dartell G.; and Hartl, Carroll P., 4,688,369, Cl. 53-436.000.
Hartl, Carroll P.; and Heitman, James M., 4,714,014, Cl. 99-450.2[illegible]
Jonovic, John A.; Stengel, Bruce W.; and Mally, Timothy G., 4,684,040, Cl. 222-148.000.
Mally, Timothy G.; Hartl, Carroll P.; Orloff, Daniel L.; and Total, Robert V., 4,645,400, Cl. 414-28.000.
Mally, Timothy G., 4,712,458, Cl. 83-86.000.
Total, Robert V., 4,648,237, Cl. 53-473.000.

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Tulpule, Bhalchandra R.; Oscarson, Edward M.; and Vogel, David J., 4,696,019, Cl. 375-107.000.

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Oscarsson, Rolf A. Hypodermic injector device. 4,657,533, 4-14-87, Cl. 604-60.000.

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Oscarsson, Rolf A., to Rao Medical Devices, Inc. Liquid flow meter device. 4,667,927, 5-26-87, Cl. 251-209.000.

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Reed, Charles C.; Cooley, Denton A.; Crane, Terry N.; Swanson, Edward A.; Oscarsson, Rolf A.; Liebmann, Vern L.; and Cox, Don L., 4,637,917, Cl. 422-46.000.

Oschmann, Klaus. Method and plant for the desiccation of drying [illegible] 4,656,757, 4-14-87, Cl. 34-27.000.

Oschner, Peter B. Ultraviolet nose protector. 4,674,133, 6-23-87, Cl. 2-206.000.
Oscobal AG: *See*—
Mittelmeier, Heinz; Mittelmeier, Bernhard; and Leu, Beat. 4,654,464, Cl. 623-16.000.
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Bass, Walter E.; Matyas, Stephen M.; and Oseas, Jonathan. 4,649,233, Cl. 380-21.000.
Oseka, John A. Apparatus for forming rolled food products. 4,674,967, 6-23-87, Cl. 425-110.000.
Oseman, Gavin S., to Dowty Seals Limited. Sealing assembly with elastomeric energizing means. 4,702,482, 10-27-87, Cl. 277-165.000.
Osenbaugh, Carl D., to Dana Corporation. Cooling system for planetary wheel end with wet brake. 4,655,326, 4-7-87, Cl. 188-18.00A.
Osepchuk, John M., to Raytheon Company. Microwave heating apparatus. 4,709,129, 11-24-87, Cl. 219-10.55B.
Oser, Richard B., to New Ocean Wind Products, Inc. Multiple support bar for manipulation of a hand-held sail assembly. 4,712,498, 12-15-87, Cl. 114-39.200.
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Oses, Jose , to Reboul-SMT. Stabilized upright tubular container. 4,666,324, 5-19-87, Cl. 401-131.000.
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Malka, Jacob H.; and Osetec, Marc. 4,680,726, Cl. 364-721.000.
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Saito, Mituo; Hara, Hidetoshi; and Hanada, Hideto. 4,646,549, Cl. 72-88.000.
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Haga, Minoru; Kaneko, Shinobu; Ikawa, Shoji; Murayama, Kimimasa; Nakamura, Yasuhide; and Saito, Mitsuo. 4,691,551, Cl. 72-88.000.
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O'Shea, Geraldine M.: *See*—
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Goosen, Mattheus F. A.; O'Shea, Geraldine M.; and Sun, Anthony M. F., 4,689,293, Cl. 435-1.000.
O'Shea, James P.: *See*—
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O'Shea, Norman E.: *See*—
Kwitkowski, Peter A.; Nanni, Peter; Missele, Carl; O'Shea, Norman E.; and Pirih, Anthony M., 4,703,289, Cl. 333-1.100.
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Rattray, Thomas; and Osher, John D., 4,645,183, Cl. 256-25.000.
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Oshiage, Katsunori, to Nissan Motor Co., Ltd. Ratio control system for continuously variable transmission. 4,702,128, 10-27-87, Cl. 74-866.000.
Oshiage, Katsunori: *See*—
Matsumura, Toshio; and Oshiage, Katsunori, 4,660,440, Cl. 74-866.000.
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Oshibe, Yoshihiro: *See*—
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Ohmura, Hiroshi; Oshibe, Yoshihiro; Nakayama, Masaharu; and Yamamoto, Takashi, 4,698,388, Cl. 525-88.000.
Oshida, Tsutomu, to Nifco, Inc. Device for holding rod. 4,655,434, 4-7-87, Cl. 248-73.000.
Oshida, Yoshitada; Shiba, Masataka; Nakata, Toshihiko; Koizumi, Mitsuyoshi; and Nakashima, Naoto, to Hitachi, Ltd. Exposure apparatus and method of aligning exposure mask with workpiece. 4,668,089, 5-26-87, Cl. 356-152.000.
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Otsuki, Yutaka; Omika, Hiroyoshi; Oshima, Akio; Araki, Yoshihiko; and Tsuchiya, Yasuyuki, 4,642,325, Cl. 525-65.000.
Oshima, Goro; and Kato, Kotaro, to NEC Corporation. Digital communication system including an error correcting encoder/decoder and a scrambler/descrambler. 4,639,548, 1-27-87, Cl. 380-43.000.
Oshima, Hiroo, to Kabushiki Kaisha Kobe Seiko Sho. Crown control compensation controlling method in multiple roll mill. 4,715,209, 12-29-87, Cl. 72-366.000.
Oshima, Hiroshi: *See*—
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Oshima, Jinichiro, to Seiko Seiki Kabushiki Kaisha. Internal grinding method. 4,713,914, 12-22-87, Cl. 51-281.00P.
Oshima, Junji; Yamada, Minoru; and Kajita, Yasuyuki, to Takeda Chemical Industries, Ltd. Flame-retardant, unsaturated polyester resin and composition therefor. 4,684,695, 8-4-87, Cl. 525-36.000.
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Oshima, Kazuo: *See*—
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Oshima, Michitaka: *See*—
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Oshima, Mitsuaki; and Yamaguchi, Kazufumi, to Matsushita Electric Industrial Co., Ltd. Solid-state image pickup device. 4,638,362, 1-20-87, Cl. 358-213.000.
Oshima, Mitsuo: *See*—
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Oshima, Yasushi: *See*—
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Hoashi, Jyuzaemon; Fumoto, Syozo; and Oshita, Kiyoshi, 4,714,748, Cl. 526-255.000.

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Kokubo, Eiichi; Osako, Kyoichi; Hirata, Akira; Oshita, Mizuo; Ito, Toshiaki; Seki, Kazuyuki; Yoshikawa, Eiichi; and Miyazaki, Osamu, 4,699,272, Cl. 209-534.000.

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Moriya, Koichi; and Oshizawa, Hidekazu, 4,698,762, Cl. 364-424.100.

Osial, Thaddeus A.: *See*—
Hira, Govind L.; Osial, Thaddeus A.; and Ernst, Wentworth A., 4,665,294, Cl. 219-121.0LD.

Osika, Thomas F., to McGill Manufacturing Company, Inc. Electrical switch with self contained indicating means. 4,667,073, 5-19-87, Cl. 200-317.000.

Osinga, Halbe, to U.S. Philips Corporation. Composite wire, coil and deflection unit for HF applications. 4,692,731, 9-8-87, Cl. 335-299.000.

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Osseyran, Anwar; Van De Meerakker, Jacobus J. M.; Van Der Meulen, Harmen; and Osinga, Halbe, 4,713,641, Cl. 335-213.000.

Oskam, Aane A.: *See*—
Koot, Hermanus M. I.; and Oskam, Aane A., 4,670,679, Cl. 310-99.000.

Oskam, Herman, to Hunter Douglas International N.V. Vertical louvre blind and parts therefor. 4,648,436, 3-10-87, Cl. 160-168.00R.

Oskar Dilo Maschinenfabrik KG: *See*—
Dilo, Richard; and Dilo, Johann P., 4,651,393, Cl. 28-111.000.

Oskar Woertz, Inhaber Hans Woertz: *See*—
Woertz, Hans, 4,708,417, Cl. 439-828.000.

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Osman, Robert M.; and Shulik, Larry J., to Exxon Research & Engineering Co. Catalytic gas synthesis apparatus. 4,637,918, 1-20-87, Cl. 422-148.000.

Osmera, Miroslav S.; Bella, Anton; Kallin, Fredrik L. N.; and Evans, Edward R., to NCR Corporation. Apparatus for pocketing documents in vertically aligned pockets. 4,648,591, 3-10-87, Cl. 271-305.000.

Osmond, Dennis R. C., to Hozelock-ASL Limited. Lawn sprinklers for lawns. 4,708,290, 11-24-87, Cl. 239-227.000.

Osmond, Max R. V. Power supply circuit including a trip-switch, and an electrical outlet. 4,701,733, 10-20-87, Cl. 335-18.000.

Osmundson, Michael D.: *See*—
Judkins, Kenneth R.; and Osmundson, Michael D., 4,701,213, Cl. 75-27.090.

Osofsky, Irving B., to Science Applications International Corp. Missile warheads. 4,664,035, 5-12-87, Cl. 102-493.000.

Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Take
Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamagu
Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi;
Miyoshi, Toshiaki, to Yamanouchi Pharmaceutical Co., Ltd.
methoxy cephalosporin derivative. 4,656,262, 4-7-87, Cl. 540-221.0

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magnetic deflection unit. 4,713,641, 12-15-87, Cl. 335-213.000.

Ossi, Ronald R., to Avco Corporation. Convertible turbo-fan, tur
shaft aircraft propulsion system. 4,651,521, 3-24-87, Cl. 60-226.30

Ossian, William F., to American Can Company. Multiple layer fi
containing oriented layers of nylon and ethylene vinyl alcohol
polymer. 4,640,852, 2-3-87, Cl. 428-35.000.

Ossid Corporation: *See*—
Tolson, Sydney S., 4,676,006, Cl. 34-22.000.

Ossont, Guy H.: *See*—
Plovanich, Charles J.; Ossont, Guy H.; King, Keith C.; Ir
Robert H.; and Knoop, Walter V., 4,683,814, Cl. 100-37.000

Ossowski, Manfred: *See*—
Michel, Wolfgang; Paul, Heinz; Kostler, Dieter; Wilhelm, Fr
Rummel, Andreas; Seher, Gero; Henze, Wilfried; Hander, F
Heinemann, Jurgen; and Ossowski, Manfred, 4,652,430,
422-142.000.

Ossowski, Richard: *See*—
Antonelli, Douglas C.; Branscomb, Patricia M.; Broockman,
C.; Dickson, LeRoy D.; Koppel, Caralee P.; Ossowski, Rich
and Stokes, Olen L., Jr., 4,713,785, Cl. 364-569.000.

Osswald, Hans: *See*—
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514-691.000.

Osswald, Hartmut: *See*—
Kleinschroth, Jorgen; Satzinger, Gerhard; Mannhardt, Karl;
tenstein, Johannes; Osswald, Hartmut; Weinheimer, Gonter
Fritschi, Edgar, 4,681,882, Cl. 514-258.000.
Kleinschroth, Jurgen; Satzinger, Gerhard; Mannhardt, Karl;
tenstein, Johannes; Osswald, Hartmut; Weinheimer, Gunter
Fritschi, Edgar, 4,677,108, Cl. 514-258.000.
Kleinschroth, Jurgen; Mannhardt, Karl; Hartenstein, Joha
Osswald, Hartmut; and Wagner, Bernd, 4,681,881,
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Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt,
Kleinschroth, Jurgen; Osswald, Hartmut; Weinheimer, G
and Fritschi, Edgar, 4,711,901, Cl. 514-300.000.

Ost, Gustav: *See*—
Elster, Werner; Koch, Horst; Ost, Gustav; Simon, Werner; D
mann, Karl; and Taitl, Ino, 4,659,986, Cl. 324-158.00F.

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Reinforced poly(ethylene terephthalate) compositions. 4,69
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Ostbo, Nils, Gas turbulator. 4,698,010, 10-6-87, Cl. 431-171.000.

Osteen, Thomas P. Combined tape measure and clipboard. 4,66
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Ostenak, Carl A.; and Mackay, Harold A., to United States of Am
Energy. Hydrofluoric acid-resistant composite window and m
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Ostendorff, Eric C.; and Tucker, James L., Jr., to Mattel, Inc
vehicle playset. 4,715,843, 12-29-87, Cl. 446-429.000.

Ostendorff, Eric C.: *See*—
Rich, Hubert A.; Filoseta, Miva A.; and Ostendorff, Er
4,659,320, Cl. 446-435.000.

Osteonics Corp.: *See*—
Averill, Robert G.; and Khowaylo, Alex, 4,704,127, Cl. 623-2
Averill, Robert G.; Khowaylo, Alex; and Sidebotham, Chris
G., 4,714,472, Cl. 623-20.000.
Forte, Mark R.; Khowaylo, Alex; and Schloesser,
4,695,282, Cl. 623-22.000.

Oster, Ake R.: *See*—
Wikholm, Bert S.; Carlsson, Torsten L. T.; and Oster, A
4,698,310, Cl. 435-316.000.

Oster, Lothar: *See*—
Pontius, Klaus; Settinger, Manfred; and Oster, Lothar, 4,6
Cl. 366-349.000.

Oster, Peter: *See*—
Vomhof, Paul; Schmidt, Karlheinz; and Oster, Peter, 4,696,4
241-282.200.

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Andreasson, Eva M.; Egeli, Finn; Holmberg, Krister A.; N
Borje; Stridh, Kjell G.; and Osterberg, Eva M., 4,650,0
166-307.000.

Osterberg, Hans: *See*—
Hallberg, Hakan; Osterberg, Hans; and Olander, Einar, 4,6
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Osterberg, Lars B., to Nordiskafilt AB. Guide line in an endless
ling web. 4,652,736, 3-24-87, Cl. 250-571.000.

Osterberg, Richard R.: *See*—
Fritz, Leonard; Osterberg, Richard R.; Wolanski, Richard
Arvay, Joseph E., 4,655,437, Cl. 266-197.000.

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sche Texaco Aktiengesellschaft. Process for deodorizing is
alcohol. 4,709,106, 11-24-87, Cl. 568-917.000.

Ostergaard, Tage V., to Knud Erik Westergaard. Device in
high-pressure cleaning units for heating the water by circ
4,687,138, 8-18-87, Cl. 239-126.000.

Ostergren, Carl D.; and Paivanas, John A., deceased (by Paivanas, Sophia, executor), to International Business Machines Corporation. Thermal conduction disc-chip cooling enhancement means. 4,639,829, 1-27-87, Cl. 361-386.000.

Ostergren, Carl D.: *See*—
Mansuria, Mohanlal S.; Meinert, Rolf G.; Oktay, Sevgin; and Ostergren, Carl D., 4,696,578, Cl. 374-45.000.

Ostergren, Raymond R. Game set of dyadic articles. 4,702,476, 10-27-87, Cl. 273-1.00E.

Osterholm, Jewell L., to Thomas Jefferson University. Intra-peritoneal perfusion of oxygenated fluorocarbon. 4,657,532, 4-14-87, Cl. 604-24.000.

Osterholm, Jewell L., to Thomas Jefferson University. Stroke treatment utilizing extravascular circulation of oxygenated synthetic nutrients to treat tissue hypoxic and ischemic disorders. 4,686,085, 8-11-87, Cl. 422-45.000.

Osterholtz, Frederick D.: *See*—
Pohl, Eric R.; and Osterholtz, Frederick D., 4,645,816, Cl. 528-28.000.

Osterland, Robert W., to USM Corporation. Panel retainer. 4,644,612, 2-24-87, Cl. 24-295.000.

Osterling, Jost: *See*—
Besche, Anton; Osterling, Jost; and Schwarze, Klaus, 4,707,203, Cl. 156-65.000.

Osterloff, Kurt, and Fuhrer, Gerd, to Zahnradfabrik Friedrichshafen AG. Locking synchronization for gear shift. 4,687,081, 8-18-87, Cl. 192-53.00F.

Osterloh, Rolf; Schupp, Eberhard; Loch, Werner; and Ahlers, Klaas, to BASF Aktiengesellschaft. Urea/polyamine/secondary monoamine/-polyalcohol condensate. 4,713,440, 12-15-87, Cl. 528-367.000.

Osterloh, Rolf: *See*—
Loch, Werner; Schupp, Eberhard; Osterloh, Rolf; and Ahlers, Klaas, 4,699,937, Cl. 523-415.000.
Schupp, Eberhard; Osterloh, Rolf; Loch, Werner; and Ahlers, Klaas, 4,713,406, Cl. 523-415.000.

Osterlund, Erik: *See*—
Hjortsberg, Arne; rfolmstrom, Goran; and Osterlund, Erik, 4,688,142, Cl. 361-332.000.

Osterlund, Rolf G. L.: *See*—
Bergwitz-Larsen, Carl-Aage; and Osterlund, Rolf G. L., 4,693,997, Cl. 514-54.000.

Osterman, Bror E. Device for effecting a seal against an underlying surface. 4,662,802, 5-5-87, Cl. 408-67.000.

Osterman, Harry F.: *See*—
Figiel, Francis J.; and Osterman, Harry F., 4,636,320, Cl. 210-801.000.

Ostermann, Erwin, to Sulzer Brothers Limited. Disk valve for a reciprocating compressor. 4,703,772, 11-3-87, Cl. 137-516.210.

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Ostermayer, Franz; and Zimmermann, Markus, to Ciba-Geigy AG. Derivatives of 3-aminopropane-1,2-diol. 4,636,511, 1-13-87, Cl. 514-311.000.

Ostermayer, Frederick W., Jr.: *See*—
Burrus, Charles A., Jr.; Kohl, Paul A.; Lee, Tien P.; and Ostermayer, Frederick W., Jr., 4,689,125, Cl. 204-129.300.

Ostermeier, Heinrich, to Happycard International Limited. Photographic camera for producing a composite picture. 4,634,248, 1-6-87, Cl. 354-75.000.

Ostermeyer, Heinz-Jurgen; and Zschauer, Wolfgang, to VEB Schwermaschinenbaukombinat TAKRAF. Lifting apparatus suitable for equipment such as forklifts. 4,699,560, 10-13-87, Cl. 414-696.000.

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Ostermoor, Rolf: *See*—
Lewandowski, Dieter; Ostermoor, Rolf; and Spranger, Dieter, 4,710,330, Cl. 264-25.000.

Osterreichisch-Amerikanische Magnesit Aktiengessellschaft: *See*—
Illemann, Heinrich; and Heinricher, Gustav M., 4,657,226, Cl. 266-220.000.

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Stangl, Gunther; and Rudenauer, Friedrich, 4,686,162, Cl. 430-5.000.

Osterstrom, Gordon E., to Sargent-Welch Scientific Company. Turbo molecular pump with improved bearing assembly. 4,674,952, 6-23-87, Cl. 415-170.00R.

Ostertag, Werner; Wienand, Henning; and Bauer, Roland, to BASF Aktiengesellschaft. Preparation of magnetite pigments: control of particle size. 4,702,775, 10-27-87, Cl. 106-304.000.

Osterwald, Carl R.; and Emery, Keith A., to United States of America, Energy. Method and apparatus for measuring areas of photoelectric cells and photoelectric cell performance parameters. 4,712,063, 12-8-87, Cl. 324-158.00D.

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Osterweil, Carole A.: *See*—
Newell, Robert E.; Rand, Paul K.; and Osterweil, Carole A., 4,678,106, Cl. 222-162.000.

Osthoff, Heinz. Device for keeping animals separated and tied up in stalls. 4,649,864, 3-17-87, Cl. 119-27.000.

Osthoff Senge GmbH & Co. KG: *See*—
Osthoff, Walter; Hohenester, Otmar; and Gessner, Anton, 4,641,403, Cl. 26-3.000.

Osthoff, Walter; Hohenester, Otmar; and Gessner, Anton, to Osthoff Senge GmbH & Co. KG. Machine for flame processing of textile fabric webs. 4,641,403, 2-10-87, Cl. 26-3.000.

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Vaida, Robert; and Osthus, Harold, 4,667,602, Cl. 104-253.000.

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Feller, Murray D.; and Ostick, Colin, 4,669,758, Cl. 285-94.000.

Ostiz, Jean-Claude: *See*—
Vernon, Patrick; and Ostiz, Jean-Claude, 4,715,002, Cl. 364-422.000.

Ostle, Arnold-William: *See*—
Schreiber, Reinhold; Ostle, Arnold-William; Maier, Walter; and Loebert, Heinz, 4,663,210, Cl. 428-160.000.

Ostlie, L. David. Method and system to provide thermal power for a power plant. 4,706,645, 11-17-87, Cl. 126-810.00R.

Ostling, Sture: *See*—
Karlsson, Ove; Ostling, Sture; and Adolfsson, Rune, 4,697,937, Cl. 384-486.000.

Ostlinning, Edgar; and Idel, Karsten, to Bayer Aktiengesellschaft. Process for the preparation of high molecular weight polyarylene sulphide in the absence of water. 4,663,430, 5-5-87, Cl. 528-388.000.

Ostlinning, Edgar: *See*—
Idel, Karsten; Ostlinning, Edgar; Freitag, Dieter; and Alewelt, Wolfgang, 4,661,584, Cl. 528-388.000.
Reinking, Klaus; Idel, Karsten; and Ostlinning, Edgar, 4,665,156, Cl. 528-388.000.

OSTMA Maschinenbau GmbH: *See*—
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Ostman, Thomas: *See*—
Strom, Valter E.; Johansson, Bo-Lennart I.; Karlsson, Hakan I.; and Ostman, Thomas, 4,655,093, Cl. 73-862.410.

Ostoich, Vladimir E.: *See*—
Allen, Jimmy D.; Cobb, Michael E.; Hillman, Robert S.; Mungall, Dennis R.; Ostoich, Vladimir E.; and Stroy, Gary H., 4,712,460, Cl. 83-208.000.

Ostrander, John L.: *See*—
Hinton, Harvard S.; and Ostrander, John L., 4,703,993, Cl. 350-3.720.
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Ostrander, Michael R.: *See*—
Nagabhushan, Tattanahali L.; Miller, George H.; Schwartz, Jerome; and Ostrander, Michael R., 4,636,383, Cl. 424-85.000.

Ostrea, Antonio M. Gold recovery by sulhydric-fatty acid flotation as applied to gold ores/cyanidation tailings. 4,710,361, 12-1-87, Cl. 423-26.000.

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Ostreicher, Eugene A.; Knight, Rodney A.; Fiore, Joseph V.; Emond, George T.; and Hou, Kenneth C., to Cuno Incorporated. Process for charge modifying a microphorous membrane. 4,711,793, 12-8-87, Cl. 427-244.000.

Ostreicher, Eugene A.: *See*—
Hou, Kenneth C.; and Ostreicher, Eugene A., 4,645,567, Cl. 162-181.600.

Ostrelich, Michael J., to Black & Decker Inc. Travel steam and dry iron. 4,688,340, 8-25-87, Cl. 38-90.000.

Ostriker, Jeremiah P. Method for forming single crystals of silicon by use of a standing hypersonic wave. 4,668,331, 5-26-87, Cl. 156-603.000.

Ostro, Marc J.: *See*—
Janoff, Andrew S.; Ostro, Marc J.; Weiner, Alan L.; Weissmann, Gerald; and Seibold, James R., 4,668,638, Cl. 436-506.000.

Ostrobrod, Meyer. Safety alarm tripod. 4,660,679, 4-28-87, Cl. 182-18.000.

Ostrom, Carl R.; and Chapman, John A., to Valmont Industries, Inc. Means for seeding through a center pivot irrigation system. 4,660,775, 4-28-87, Cl. 239-727.000.

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Ostrovski, Vassil N.: *See*—
Balevski, Angel T.; Nikolov, Ivan D.; Momchilov, Emil N.; Bachvarov, Rumen D.; Ostrovski, Vassil N.; Nikolchov, Alexander S.; Stoyanov, Peyo T.; Petrov, Valentin G.; and Lyubenov, Toshko K., 4,671,342, Cl. 164-458.000.

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Hayes, Michael E.; Hass, Gary R.; Sharpe, Robert; Nestaas, Eirik; and Ostrovsky, Mikhail V., 4,706,749, Cl. 166-267.000.

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Mahaffy, Reid A.; Garson, Eugene; and Ostrow, Milan R., 4,709,535, Cl. 53-473.000.

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Osugi, Minoru; Takagawa, Makoto; Nakamura, Tadasi; Kojima, Takashi; and Tsuji, Kinya, to Mitsubishi Gas Chemical Company, Inc. Catalyst composition suitable for synthesis of methanol. 4,666,945, 5-19-87, Cl. 518-713.000.

Osuka, Isao: *See*—
Matsumura, Toshimi; Osuka, Isao; and Masuda, Akira, 4,671,236, Cl. 123-357.000.

O'Sullivan, Andrew W.: *See*—
Bonora, Anthony C.; and O'Sullivan, Andrew W., 4,676,709, Cl. 414-217.000.
Maney, George A., O'Sullivan, Andrew W.; and Faraco, W. George, 4,674,939, Cl. 414-292.000.

O'Sullivan, Anthony C.: *See*—
Frei, Bruno; and O'Sullivan, Anthony C., 4,696,945, Cl. 514-450.000.

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Nowak, Frederick H.; and Hovey, Isabel, 4,691,808, Cl. 187-125.000.
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Bayh, Russell L., III, 4,655,706, Cl. 431-187.000.
Council, Malcolm N.; and Baker, Walter, 4,705,107, Cl. 166-170.000.
Cox, Don C., 4,655,291, Cl. 166-385.000.
Deaton, Thomas M., 4,664,195, Cl. 166-323.000.
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Johnson, David J.; McGinnis, Mark L.; Turner, William H.; and Slaughter, Ivan K., 4,667,986, Cl. 285-24.000.
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Rumbaugh, William D.; and Waters, Fleming A., 4,667,736, Cl. 166-65.100.
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Setterberg, John R., Jr., 4,709,761, Cl. 166-387.000.
Taylor, Frank H., 4,640,363, Cl. 166-317.000.
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Ueda, Hikoji; Otsu, Akira; Sano, Kenji; and Takano, Katuyuki, 4,652,511, Cl. 430-137.000.

Otsu, Hiroshi: *See*—
Kimura, Toshio; Nakagawa, Shuichi; Tokumo, Teruhiko; Yamamoto, Hiroyuki; Kotan, Hiroshi; Otsu, Hiroshi; and Satoh, Tetsuya, 4,649,399, Cl. 346-32.000.

Otsu, Keiichiro: *See*—
Kaku, Yoshihiro; and Otsu, Keiichiro, 4,662,267, Cl. 92-71.000.

Otsu, Takayuki; Murata, Yoshishige; and Amaya, Naoyuki, to Nippon Oil and Fats Co., Ltd. Method for modifying polyfumaric acid diester. 4,670,520, 6-2-87, Cl. 528-503.000.

Otsubo, Hitoshi: *See*—
Tsujimoto, Keizo; Katagiri, Takashi; Ichihashi, Eiji; and Otsubo, Hitoshi, 4,712,366, Cl. 57-245.000.

Otsuka, Akira; Shinoda, Tsutae; Horio, Kenji; and Tanioka, Tsuyoshi, to Fujitsu Limited. Method for driving a gas discharge display panel. 4,684,849, 8-4-87, Cl. 315-169.400.

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Morimoto, Takuo; Nishiuchi, Kihachiro; and Wada, Kenichi, 4,647,404, Cl. 252-516.000.

Otsuka, Hidenori, to Nohmi Bosai Kogyo Co., Ltd. Fire detector. 4,709,229, 11-24-87, Cl. 340-540.000.

Otsuka, Hirofumi: *See*—
Takahashi, Tsuneo; and Otsuka, Hirofumi, 4,637,264, Cl. 73-862.330.

Otsuka, Hirotaka: *See*—
Tsuchiya, Hiroyoshi; Kurosawa, Toshiharu; Otsuka, Hirotaka; Maruyama, Yuuji; and Nakazato, Katsuo, 4,692,811, Cl. 358-282.000.

Otsuka Kagaku Kabushiki Kaisha: *See*—
Morimoto, Takuo; Nishiuchi, Kihachiro; Wada, Kenichi; Suzue, Masayoshi; and Hareyama, Yukiya, 4,655,967, Cl. 252-520.000.
Nishiuchi, Kihachiro; Suzue, Masayoshi; and Sakane, Koji, 4,652,439, Cl. 423-598.000.
Nishiuchi, Kihachiro; Suzue, Masayoshi; and Sakane, Koji, 4,689,211, Cl. 423-598.000.
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,656,264, Cl. 540-353.000.
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,665,166, Cl. 540-215.000.
Torii, Sigeru; Tanaka, Hideo; Sasaoka, Michio; Uto, Seiryu; and Hayase, Syozo, 4,713,452, Cl. 540-358.000.

Otsuka Kagaku Yakuhin Kabushiki Kaisha: *See*—
Torii, Sigeru; Uneyama, Kenji; Tanaka, Hideo; Nokami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,689,411, Cl. 540-358.000.

Otsuka, Kazuhisa: *See*—
Nakashima, Seiichiro; Toyoda, Kenichi; Inagaki, Shigemi; and Otsuka, Kazuhisa, 4,712,972, Cl. 414-744.00R.

Otsuka, Kengo: *See*—
Sannohe, Kunio; Otsuka, Kengo; Ito, Toshohiko; Maruyama, Masahiko; Kitano, Takafumi; and Hirayama, Makoto, 4,639,521, Cl. 546-141.000.

Otsuka, Kiyoto: *See*—
Yoshizawa, Tamae; Otsuka, Kiyoto; Nagata, Shiro; and Takamatsu, Hideo, 4,678,841, Cl. 525-353.000.

Otsuka, Koji, to Scovill Japan Kabushiki Kaisha. Tack button. 4,697,313, 10-6-87, Cl. 24-95.000.

Otsuka, Mieko: *See*—
Yoshida, Mitsuo; Mizuno, Yoshikuni; Shimizu, Natsue; Otsuka, Mieko; Dobutsu, Masakatsu; Furukawa, Yuusuke; and Joshita, Yutaka, 4,690,949, Cl. 514-561.000.

Otsuka, Minoru: *See*—
Arai, Shigeharu; and Otsuka, Minoru, 4,649,458, Cl. 361-152.000.

Otsuka, Noboru: *See*—
Tsuchida, Takayasu; Otsuka, Noboru; and Sonoda, Hiroshi, 4,656,135, Cl. 435-116.000.

Otsuka, Nobuo; Igarashi, Hideo; and Thompson, Peter, to Mitsubishi Denki Kabushiki Kaisha. Air-conditioner. 4,635,445, 1-13-87, Cl. 62-158.000.

Otsuka, Nobuyuki; Kasuya, Atsuo; Nakayama, Yusho; Kumashiro, Masayuki; Furuya, Tamio; and Kaiho, Shigeo, to Honda Giken Kogyo Kabushiki Kaisha. Pressing method and punch and die press for the same. 4,689,979, 9-1-87, Cl. 72-57.000.

Otsuka Pharmaceutical Co., Ltd.: *See*—
Asakura, Shoshiro; and Adachi, Masakazu, 4,643,896, Cl. 424-88.000.
Bodor, Nicholas S.; and Ohshiro, Yasuo, 4,661,502, Cl. 514-346.000.
Bodor, Nicholas S., 4,710,495, Cl. 514-174.000.
Tone, Hitoshi; Miyamoto, Hisashi; Ueda, Hiraki; and Nakagawa, Kazuyuki, 4,684,648, Cl. 514-249.000.
Uchida, Minoru; Nishi, Takao; and Nakagawa, Kazuyuki, 4,663,323, Cl. 514-227.000.
Uchida, Minoru; Komatsu, Makoto; and Nakagawa, Kazuyuki, 4,694,017, Cl. 514-418.000.
Yamamura, Yuichi; Kishimoto, Tadamitsu; Nakai, Satoru; and Hirai, Yoshikatsu, 4,675,291, Cl. 435-68.000.

Otsuka Pharmaceutical Factory, Inc.: *See*—
Nakamura, Shizuo; Inoue, Makoto; and Tsuda, Yoshiaki, 4,642,355, Cl. 548-533.000.

Otsuka, Sachiko: *See*—
Ogata, Hajime; Nakakouji, Hisatada; Akeda, Yasuhiro; Ichida, Toshio; Irie, Toshio; and Otsuka, Sachiko, 4,687,713, Cl. 428-628.000.

Otsuka, Seinosuke; Tani, Kazuhide; Yamagata, Tsuneaki; Akutagawa, Susumu; Kumobayashi, Hidenori; and Yagi, Misao, to Takasago Perfumery Co., Ltd. Process for the preparation of enamines or imines. 4,695,631, 9-22-87, Cl. 544-170.000.

Otsuka, Setsuo: *See*—
Maruoka, Kuniaki; Takahashi, Nobuyuki; Tujimura, Serkichi; Yamashita, Yasuhiko; Otsuka, Setsuo; Oohasi, Isao; and Motoyama, Takeo, 4,698,102, Cl. 148-2.000.

Otsuka, Shigenori: *See*—
Suzuki, Tetsumi; Murayama, Tetsuo; Ono, Hitoshi; Otsuka, Shigenori; and Nozomi, Mamoru, 4,664,997, Cl. 430-58.000.

Otsuka, Shojiro; and Komada, Hideaki, to Diesel Kiki Co., Ltd. Multistage fuel injection system for internal combustion engines. 4,691,674, 9-8-87, Cl. 123-299.000.

Otsuka, Susumu: *See*—
Miura, Kuniaki; Okada, Yoshinori; Fukushima, Isao; and Otsuka, Susumu, 4,691,246, Cl. 358-310.000.

Otsuka, Toru; and Motoyama, Tadashi, to Sony Corporation. Optical information reproducing apparatus with improved skew error control. 4,674,078, 6-16-87, Cl. 369-44.000.

Otsuka, Toru: *See*—
Morita, Kazuyuki; and Otsuka, Toru, 4,694,456, Cl. 371-38.000.

Otsuka, Yoshihiro: *See*—
Kashiwame, Josho; Otsuka, Yoshihiro; and Kozawa, Shigeyuki, 4,654,410, Cl. 528-171.000.

Otsuka, Yoshio: *See*—
Akiyama, Tadahiko; and Otsuka, Yoshio, 4,680,785, Cl. 379-57.000.

Otsuka, Yuji: *See*—
Kurihara, Kozo; Otsuka, Yuji; and Fukazawa, Toshio, 4,661,162, Cl. 106-169.000.

Otsuka, Yukio; Kawai, Hiroshi; Iida, Kiyomi; and Nakano, Hironobu, to Toyota Jidosha Kabushiki Kaisha. Forced cooling casting apparatus. 4,671,338, 6-9-87, Cl. 164-150.000.

Yukio: *See*—
vai, Hiroshi; and Otsuka, Yukio, 4,671,337, Cl. 164-150.000.
Akihiro: *See*—
uwara, Norio; Takahashi, Nobuyuki; and Otsuki, Akihiro, 713,279, Cl. 428-142.000.
Hajime; Ishii, Kenjiro; Satoh, Yutaka; and Fukumoto, Fumio, to ta Camera Kabushiki Kaisha. Device for erasing unnecessary s for use in reader-printers. 4,708,464, 11-24-87, Cl. 355-45.000.
Hajime: *See*—
, Kenjiro; Satoh, Yutaka; Fukumoto, Fumio; Otsuki, Hajime; okura, Yasuhide; and Saito, Shuichi, 4,695,155, Cl. 355-45.000.
Hiromi; Matsuura, Ryoichi; Fujinami, Hiroshi; Hori, Shinichi; ra, Yoshihisa; and Oka, Hiroyuki, to Nippondenso Co., Ltd. aulic pressure control device for use in vehicle anti-skid braking n. 4,685,749, 8-11-87, Cl. 303-116.000.
Hiromi; Numata, Kenichi; Matsuura, Ryoichi; Nomura, Yo-; Nakanishi, Nobuyasu; and Oka, Hiroyuki, to Nippondenso Ltd.; and Toyota Jidosha Kabushiki Kaisha. Hydraulic pressure ol device for use in vehicle anti-skid braking system. 4,715,667, 87, Cl. 303-119.000.
Hiromi: *See*—
nura, Yoshihisa; Oka, Hiroyuki; and Otsuki, Hiromi, 4,640,558, . 303-119.000.
ru, Naohiko; Matsuura, Ryoichi; Otsuki, Hiromi; Fujinami, iroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 636,009, Cl. 303-93.000.
Tatsuo; Shimano, Akio; Aoki, Hiromitsu; and Aoki, Ikuko, to shita Electric Industrial Co., Ltd. Buffered FET logic gate depletion-mode MESFET's. 4,712,023, 12-8-87, Cl. 0.000.
Toshiaki, to Fanuc Ltd. Numerical control apparatus with n graphic stored stroke limit check. 4,646,247, 2-24-87, Cl. 4.000.
Toshiaki: *See*—
amura, Hideaki; and Otsuki, Toshiaki, 4,684,861, Cl. 8-567.000.
Toshinori: *See*—
oto, Yoshihiro; Kataoka, Jiro; Otsuki, Toshinori; and akamura, Takuji, 4,701,810, Cl. 358-296.000.
mura, Takuji; Otsuki, Toshinori; Nagasawa, Takeshi; and emoto, Yoshihiro, 4,667,252, Cl. 358-286.000.
Yutaka; Omika, Hiroyoshi; Oshima, Akio; Araki, Yoshihiko; suchiya, Yasuyuki, to Nippon Oil Company, Ltd. Cathode-ing electrodeposition coating composition. 4,642,325, 2-10-87, -65.000.
Yuzo: *See*—
h, Michihiro; Fujimoto, Tsuyoshi; Komatsu, Nobiru; and suki, Yuzo, 4,646,950, Cl. 222-591.000.
Zenju: *See*—
ka, Yoshiaki; Inami, Mamoru; and Otsuki, Zenju, 4,665,494, 364-485.000.
Orthopaedische Industrie Besitz- und Verwaltungs-Komanllschaft: *See*—
t, Werner, 4,685,927, Cl. 623-44.000.
t; and Kuratle, Christoph, to Rieter Machine Works Limited. g device for open-end spinning. 4,665,687, 5-19-87, Cl. 000.
t: *See*—
na, Ludek; and Ott, Ernst, 4,635,436, Cl. 57-417.000.
r S.: *See*—
z-Salinas, Hector; and Ott, Gary S., 4,704,366, Cl. -501.000.
ard: *See*—
col-Ottler, Max; Loczenski, Martin; Mieschke, Norbert; Ott, rhard; Przybylski, Gerhard; Puff, Erich; and Weber, Dietmar, 54,476, Cl. 174-116.000.
tville E., to Texas Instruments Incorporated. Spatial light tor drive system. 4,638,309, 1-20-87, Cl. 340-752.000.
ville E., to Texas Instruments Incorporated. Allophone vo-1,661,915, 4-28-87, Cl. 364-513.500.
ville E., to Texas Instruments Incorporated. Optical system ection display using spatial light modulator device. 4,680,579, Cl. 340-783.000.
ter; and Zettl, Franz, to Siemens Aktiengesellschaft. Voltage-nt resistor. 4,675,644, 6-23-87, Cl. 338-21.000.
r: *See*—
uf, Werner; and Ott, Gunter, 4,646,067, Cl. 340-550.000.
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, Wolfgang; Dobbelstein, Arnold; Geist, Michael; Schon, rg; and Ott, Gunther, 4,661,541, Cl. 523-414.000.
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to Gretag Aktiengesellschaft. Process and apparatus for the n of ink feed controls in an offset printing machine. 9, 4-21-87, Cl. 364-526.000.
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Guido; Spiess, Andreas; Ott, Hans; and Boegli, Rolf, ,502, Cl. 364-519.000.
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Ott, Hanspeter: *See*—
Bednorz, Johannes G.; Gueret, Pierre L.; Nievergelt, Hermann E.; Ott, Hanspeter; Pohl, Wolfgang D.; and Widmer, Daniel F., 4,643,627, Cl. 414-217.000.
Ott, Helmut: *See*—
Baldauf, Gunter; and Ott, Helmut, 4,706,548, Cl. 91-424.000.
Ott, Høye L. Stitchbonded composite wiper. 4,675,226, 6-23-87, Cl. 428-102.000.
Ott, Hubert: *See*—
Gugel, Bernd; Niebel, Harald; Ott, Hubert; Heisele, Horst; Kitzberger, Herbert; and Seybold, Wolfgang, 4,674,179, Cl. 29-602.00R.
Gugel, Bernd; Niebel, Harald; and Ott, Hubert, 4,695,174, Cl. 400-124.000.
Ott, Karl-Heinz; Lindner, Christian; Uerdingen, Walter; Braese, Hans-Eberhard; and Hurnik, Helmut, to Bayer Aktiengesellschaft. Moulding compositions of vinyl chloride polymers, graft polymers and polymeric plasticizers having a high resistance to ageing. 4,657,976, 4-14-87, Cl. 525-83.000.
Ott, Karl-Heinz: *See*—
Eichenauer, Herbert; and Ott, Karl-Heinz, 4,647,652, Cl. 528-486.000.
Eichenauer, Herbert; Doring, Joachim; Ott, Karl-Heinz; and Bottenbruch, Ludwig, 4,652,614, Cl. 525-71.000.
Eichenauer, Herbert; Zabrocki, Karl; Doring, Joachim; Ott, Karl-Heinz; and Bottenbruch, Ludwig, 4,668,737, Cl. 525-73.000.
Eichenauer, Herbert; Lindner, Christian; Ott, Karl-Heinz; Orth, Peter; and Hocker, Hartwig, 4,699,967, Cl. 528-29.000.
Kohler, Karl-Heinz; Lindner, Christian; Rempel, Dieter; Weber, Gunter; Ott, Karl-Heinz; and Binsack, Rudolph, 4,666,972, Cl. 524-504.000.
Kress, Hans-Jurgen; Bottenbruch, Ludwig; Witman, Mark; Kircher, Klaus; Lindner, Christian; and Ott, Karl-Heinz, a 649,168, Cl. 524-130.000.
Kress, Hans-Jurgen; Lindner, Christian; Morbitzer, Leo; Peters, Horst; Ott, Karl-Heinz; and Schoeps, Jochen, 4,683,265, Cl. 525-67.000.
Lindner, Christian; Ott, Karl-Heinz; Nouvertne, Werner; and Muller, Peter R., 4,656,227, Cl. 525-133.000.
Lindner, Christian; Ott, Karl-Heinz; Uerdingen, Walter; Braese, Hans-Eberhard; and Kress, Hans-Jurgen, 4,666,980, Cl. 525-83.000.
Wingler, Frank; Koch, Otto; Doering, Joachim; Ott, Karl-Heinz; and Liebig, Lothar, 4,639,473, Cl. 525-83.000.
Ott, Kenneth A.: *See*—
Lemley, Thomas H.; Overdorf, Dennis G.; Ott, Kenneth A.; and Kozak, Valentine J., 4,671,465, Cl. 242-7.030.
Ott, Robert J., to American Technologies, Inc. Ink jet fluid for radiology. 4,701,942, 10-20-87, Cl. 378-156.000.
Ott, Robert S., to R. Funk & Co., Inc. Buckle chute folder with clamp. 4,701,155, 10-20-87, Cl. 493-14.000.
Ott, Russell G., to RCA Corporation. Priority arbitration logic for a multi-master bus system. 4,639,859, 1-27-87, Cl. 364-200.000.
Ott, Russell G., to RCA Corporation. Clock synchronization circuit for a computer timer. 4,689,575, 8-25-87, Cl. 328-63.000.
Ott, Russell G., to RCA Corporation. Multiple byte serial data transfer protocol. 4,692,859, 9-8-87, Cl. 364-200.000.
Ott, Russell G.: *See*—
Dwyer, Robert A.; and Ott, Russell G., 4,641,261, Cl. 364-900.000.
Ott, Teunis J.: *See*—
Krishnan, Komandur R.; and Ott, Teunis J., 4,704,724, Cl. 379-221.000.
Ott, Vernon D. Adjustable vibration dampening motor mount for motorcycles. 4,641,810, 2-10-87, Cl. 248-635.000.
Ott, William E., to United States of America, Air Force. Analog circuit for simulating a digitally controlled rheostat. 4,644,193, 2-17-87, Cl. 307-490.000.
Ottaviani, Alvaro: *See*—
Martelli, Nerio; Ottaviani, Alvaro; and Sabba, Pierluigi, 4,669,969, Cl. 425-388.000.
Ottaviano, Gary W. Chemiluminescent fishing lure device. 4,709,499, 12-1-87, Cl. 43-17.600.
Otte, George E.: *See*—
Brendgord, Thomas; and Otte, George E., 4,687,215, Cl. 280-79.10R.
Otte, Joseph A. N.; and Liebman, Dennis, to Dow Chemical Company, The. Method for removing cesium from an aqueous liquid and purifying the reactor coolant in boiling water and pressurized water reactors. 4,657,731, 4-14-87, Cl. 376-313.000.
Otte, Werner; and Nehring, Rudolf, to Huls Aktiengesellschaft. Method of producing cyclohexyl compounds. 4,695,660, 9-22-87, Cl. 568-830.000.
Ottelin, Esa: *See*—
Ilmoniemi, Erkki; Koskimies, Jouni; Lyytinen, Markku; Pitkajarvi, Kari; and Ottelin, Esa, 4,687,548, Cl. 162-216.000.
Otteman, John H.; and Lufkin, John R. Engine overheat protection system. 4,691,669, 9-8-87, Cl. 123-41.150.
Ottemann, William C., to Barient, Inc. Multi-speed winch. 4,667,934, 5-26-87, Cl. 254-344.000.
Otten, Gregory K.: *See*—
Hellnick, Dieter; Victor, Karl J.; and Otten, Gregory K., 4,708,038, Cl. 82-1.00C.
Otten, Hans-Gunter: *See*—
Kruckenberg, Winfried; Leverenz, Klaus; and Otten, Hans-Gunter, 4,681,932, Cl. 534-575.000.

Otten, Henricus J. M.: *See*—
Sijbers, Peter J. M.; Otten, Henricus J. M.; and Van Der Plaats, Petrie J., 4,680,789, Cl. 379-395.000.

Otten, Joachim W., deceased: *See*—
Meininger, Fritz; Otten, Joachim W., deceased; Otten, Ursula, heir; and Rudolph nee Otten, Anna G., heir, 4,649,193, Cl. 534-622.000.

Otten, Johannes H. B.: *See*—
Nellen, Johannes H. M.; Slegers, Frans; Otten, Johannes H. B.; and Kole, Johannus W. G., 4,660,139, Cl. 363-68.000.

Otten, Josephus M., to Sentron v.o.f. Oxygen sensor. 4,672,971, 6-16-87, Cl. 128-635.000.

Otten, Josephus M.; and Boekema, Berend, to Cordis Europa N.V. Electrochemical reference electrode. 4,706,678, 11-17-87, Cl. 128-635.000.

Otten, Ronald L.: *See*—
Ledermann, Donald L.; and Otten, Ronald L., 4,681,335, Cl. 280-446.00R.

Otten, Ursula, heir: *See*—
Meininger, Fritz; Otten, Joachim W., deceased; Otten, Ursula, heir; and Rudolph nee Otten, Anna G., heir, 4,649,193, Cl. 534-622.000.

Ottengraf, Simon P. P., to Clair Tech B.V. Method for biological treatment of waste gases. 4,662,900, 5-5-87, Cl. 55-90.000.

Ottenheimer, Fritz, to Westinghouse Electric Corp. Apparatus for moving an object in an isolated environment. 4,653,323, 3-31-87, Cl. 73-866.400.

Ottenjan, Gary: *See*—
Wilson, Harold R.; Ottenjan, Gary; and Bischoff, Gary, 4,703,598, Cl. 52-238.100.

Ottens, Erroll P. K. Installation for dehydrating protein-containing sludge. 4,668,391, 5-26-87, Cl. 210-181.000.

Ottenstein, Sidney A.: *See*—
Kuhnel, Donald S.; and Ottenstein, Sidney A., 4,682,084, Cl. 315-307.000.
Kuhnel, Donald S.; and Ottenstein, Sidney A., 4,686,428, Cl. 315-307.000.

Otter, Fred A., Jr.: *See*—
Nighan, William L.; and Otter, Fred A., Jr., 4,703,229, Cl. 315-169.400.

Otter, Stanley E., to American Olaer, Inc. Pressure acummulator with seal assembly. 4,671,325, 6-9-87, Cl. 138-30.000.

Otterbacher, Eric W.: *See*—
Mendoza, Abel; and Otterbacher, Eric W., 4,691,042, Cl. 560-61.000.

Otters, John L. External combustion engines. 4,638,633, 1-27-87, Cl. 60-518.000.

Ottersbach, Thomas V.: *See*—
Hildebrandt, Eugene F.; and Ottersbach, Thomas V., 4,697,860, Cl. 439-374.000.

Otterstetter, Charles H.; Schowiak, Duane C.; and Stueckle, Paul, to Ford Motor Company. Positive displacement paint pushout apparatus. 4,714,179, 12-22-87, Cl. 222-148.000.

Ottesen, Hjalmar H.: *See*—
Stich, Michael C.; Resman, John B.; Ottesen, Hjalmar H.; and Anderson, Todd B., 4,697,127, Cl. 318-561.000.

Ottesen, Martin: *See*—
Godtfredsen, Sven E.; Ottesen, Martin; and Larsen, Bent A., 4,708,875, Cl. 426-12.000.

Otteson, Jack O., to Dana Corporation. Adjustable throttle connector for a vehicle speed control unit. 4,637,485, 1-20-87, Cl. 180-175.000.

Ottestad, Nils T., to Ottestad, Nils T.; and Den Norske Stats Oljeselskap A.S. Double-acting valve system for underwater breathing or the like. 4,711,263, 12-8-87, Cl. 137-102.000.

Ottieri Enterprises: *See*—
Ottieri, Marco T., 4,669,202, Cl. 36-120.000.
Ottieri, Marco T., 4,691,454, Cl. 36-117.000.

Ottieri, Marco T., to Ottieri Enterprises. Ski boot. 4,669,202, 6-2-87, Cl. 36-120.000.

Ottieri, Marco T., to Ottieri Enterprises. Ski boot closure system. 4,691,454, 9-8-87, Cl. 36-117.000.

Ottieri, Marco T. Spring structure for ski boot. 4,696,117, 9-29-87, Cl. 36-117.000.

Ottle, Walter: *See*—
Worner, Siegfried; and Ottle, Walter, 4,669,261, Cl. 60-297.000.

Ottley, Thomas W.; and Conway, John K., to Prutec Limited. Introduction of samples into a mass spectrometer. 4,634,867, 1-6-87, Cl. 250-288.000.

Ottlik, Klara, Elisabeth Nowak, heirs: *See*—
Ottlik, Norbert, deceased, 4,715,204, Cl. 72-76.000.

Ottlik, Norbert, deceased (by Ottlik, Klara, Elisabeth Nowak, heirs), to M.A.N. Roland Druckmaschinen Aktiengesellschaft. Method and apparatus for accurately centered alignment of a hollow rotation symmetrical workpiece. 4,715,204, 12-29-87, Cl. 72-76.000.

Ottlinger, Ralph: *See*—
Jira, Reinhard; and Ottlinger, Ralph, 4,710,558, Cl. 528-14.000.

Otto, Alfred R., to Beyer & Otto GmbH. Process and device for the spraying of hot melt glue. 4,669,661, 6-2-87, Cl. 239-132.100.

Otto, Bernard, to Mobil Oil Corporation. Coaxial, dual chamber seismic air gun. 4,715,023, 12-22-87, Cl. 367-144.000.

Otto Bock Orthopaedische Industrie Besitz- und Verwaltungs-Kommanditgesellschaft: *See*—
Haupt, Werner, 4,685,926, Cl. 623-43.000.

Otto Dunkel GmbH Fabrik fur elektrotechnische Gerate: *See*—
Neumann, Gerhard; and Ramisch, Hans, 4,693,002, Cl. 29-882.000.
Ramisch, Hans; and Neumann, Gerhard, 4,687,275, Cl. 439-404.000.

Otto, Erich: *See*—
Winn, Klaus; and Otto, Erich, 4,678,148, Cl. 248-122.000.

Otto, Friedrich, to Stephan U. Soehne GmbH & Co. Food processing device. 4,650,337, 3-17-87, Cl. 366-70.000.

Otto Hansel GmbH: *See*—
Hogenkamp, Wilhelm, 4,660,350, Cl. 53-52.000.
Lesch, Hans, 4,670,279, Cl. 426-410.000.
Mergelsberg, Reinhard, 4,666,730, Cl. 426-572.000.

Otto, Johann: *See*—
Brust, Hans-Detlef; and Otto, Johann, 4,677,351, Cl. 315-386.00.
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Mieth, Hans O. E., 4,687,015, Cl. 137-238.000.

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Bean, John C.; and Ourmazd, Abbas, 4,661,829, Cl. 357-30.000.
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Anselm, Michael C., 4,666,410, Cl. 440-61.000.
Baker, Ronald C., 4,657,515, Cl. 440-66.000.
Baltz, Gene F.; and Breckenfeld, Paul W., 4,660,516, Cl. 123-187.50R.
Blanchard, Clarence E., 4,643,686, Cl. 440-51.000.
Bland, Gerald F.; and Zdanowicz, Larry E., 4,650,428, Cl. 440-83.000.
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Brand, William E., 4,669,618, Cl. 212-146.000.
Breckenfeld, Paul W.; Broughton, George L.; Gibbs, Ronald E.; Macier, James E.; and Petersen, H. Norman, 4,669,988, Cl. 440-88.000.
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Broughton, George L.; and Macier, James E., 4,695,261, Cl. 440-900.000.
Clark, Danny L.; Woodard, Robert W.; and Zorc, Philip A., 4,703,731, Cl. 123-413.000.
Dogadko, Peter; and Enlow, David, 4,641,618, Cl. 123-335.000.
Dogadko, Peter, 4,646,696, Cl. 123-416.000.
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Dunham, William D.; and Miller, Gerald L., 4,643,149, Cl. 123-403.000.
Dunham, William D.; Flaig, John D.; Petersen, H. Norman; and Young, Robert F., 4,708,673, Cl. 440-77.000.
Ferguson, Arthur R., 4,641,615, Cl. 123-196.0AB.
Ferguson, Arthur R., 4,689,024, Cl. 440-52.000.
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Flaig, John D., 4,633,825, Cl. 123-73.00V.
Friedle, Dennis J., 4,653,552, Cl. 141-98.000.
Friedle, Dennis J.; and Kolb, Richard P., 4,671,773, Cl. 440-88.000.
Friedle, Dennis J.; Kolb, Richard P.; and Borst, Gaylord M., 4,681,056, Cl. 114-146.000.
Gust, Daniel M., 4,673,359, Cl. 440-88.000.
Hall, Charles B.; and Mondek, Martin J., 4,682,759, Cl. 251-210.000.
Hansen, Loren F.; and Lamb, Mark E., 4,638,867, Cl. 172-22.000.
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Hicks, John E., 4,655,313, Cl. 180-273.000.
Krueger, William R.; McAuliffe, Gerald N.; and Schlageter, George A., 4,675,585, Cl. 318-358.000.
Lieb, M. Jeremy; and Collis, Raymond D., 4,682,560, Cl. 114-343.000.

Martin, Herman H.; and Kidd, Earl H., deceased, 4,671,052, Cl. 56-17.400.
McLeod, Kenneth M., 4,704,598, Cl. 340-60.000.
Mondek, Matthew H.; and Neal, Louis R., 4,697,556, Cl. 123-195.0HC.
Muzik, Gregory A., 4,706,414, Cl. 51-7.000.
Nerstrom, James S., 4,660,514, Cl. 123-65.0PE.
O'Brien, John A., Jr.; and Hutson, James H., 4,643,236, Cl. 144-208.00E.
Prince, Anthony F., 4,648,497, Cl. 192-0.084.
Rawlings, David E., 4,645,464, Cl. 440-57.000.
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Ruge, Paul M.; and Woodard, Robert W., 4,676,757, Cl. 440-55.000.
Scharpf, Otto H., 4,660,378, Cl. 60-313.000.
Seyerle, Carl E., 4,689,939, Cl. 56-11.100.
Sullivan, Donald K., 4,642,058, Cl. 440-61.000.
VanRens, Russell J., 4,690,201, Cl. 164-516.000.
Whipple, Roger B., 4,643,140, Cl. 123-65.0PE.
Winston, John H., 4,673,023, Cl. 164-246.000.
Wooters, Eldon W., 4,678,058, Cl. 180-273.000.

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Krutz, Gary W.; and Kruse, James W., 4,693,125, Cl. 73-862.390.

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Jackson, Jerry L.; and Outen, Johnny B., 4,658,719, Cl. 100-218.000.

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Honkaniemi, Matti E.; Mustikka, Lauri A.; Jankkila, Martti J.; Hokkanen, Pentti O.; Heikkila, Risto M.; and Lilja, Launo L., 4,705,474, Cl. 432-14.000.
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Hultholm, Stig-Erik; Lilja, Launo L.; Makitalo, Valto J.; and Nyman, Bror G., 4,648,973, Cl. 210-629.000.
Makinen, Juho K.; Peuralinna, Mauri J.; and Aaltonen, Olavi A., 4,642,133, Cl. 75-2.000.
Mantymaki, Tarmo K., 4,699,656, Cl. 75-76.000.
Salminen, Karl O.; Heino, Heimo J.; Lehtonen, Pertti T.; Koskinen, Seppo V.; Kivisto, Tuomo V.; Rinta-Keturi, Lasse J.; and Sipila, Heikki J., 4,703,846, Cl. 198-631.000.
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Obbermito, Antonio, 4,686,785, Cl. 40-606.000.

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Ivanov, Chavdar B.; Mondeshka, Donka M.; Berova, Nikolina D.; Rakovska, Rossitza S.; Panova, Yordanka T.; Markov, Marko T.; Ovcharov, Radi G.; Usunov, Petko D.; and Zabunova, Orhideya B., 4,678,853, Cl. 546-146.000.

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Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Gregory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.

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Ovens, Kevin M.: *See—*
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Over, Gary L.: *See—*
Long, William B.; Over, Gary L.; Shaffer, Howard R.; and Shuey, John R., 4,684,192, Cl. 439-374.000.

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Olsen, Robert F., 4,709,800, Cl. 198-459.000.

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Ahl, Alan D.; Billmaier, Joseph F.; Graham, Paul W. L.; Schenk, Mark B.; and Zylka, Stephen H., 4,691,830, Cl. 209-523.000.
Barriac, Jacques J., 4,664,278, Cl. 215-252.000.

ck, James M.; and Rohr, Robert D., 4,638,916, Cl. 215-235.000.
ang, Long Fei, 4,640,428, Cl. 215-270.000.
uer, William E., 4,662,928, Cl. 65-307.000.
vey, Donald G., 4,704,152, Cl. 65-29.000.
sai, Kirit C., 4,664,163, Cl. 141-320.000
Frank, Frank J.; Locke, Ralph J.; and Syperski, Thomas D., 4,662,965, Cl. 156-215.000.
Frank, Frank J.; and Tipping, Mark R., 4,686,931, Cl. 118-50.000.
Frank, Frank J., 4,693,210, Cl. 118-259.000.
lmore, William E., 4,678,082, Cl. 206-459.000.
nks, Nelson J., and Nowicki, Casimir W., 4,636,166, Cl. 425-503.000.
chs, Timothy J., 4,655,356, Cl. 215-230.000.
mei, Giancarlo J., 4,661,188, Cl. 156-244.110.
mei, Giancarlo J., 4,671,836, Cl. 156-215.000.
tti, Joeo M., 4,668,177, Cl. 425-529.000.
nson, Eric C., 4,648,831, Cl. 425-540.000.
es, Loren A., 4,664,958, Cl. 428-36.000.
inall, John W., 4,644,151, Cl. 250-223.00B.
rabedian, James A., 4,657,177, Cl. 229-137.000.
nnedy, Leo J., 4,643,330, Cl. 220-288.000.
ntz, Robert F., 4,645,480, Cl. 493-106.000.
sz, Maximillian, 4,645,087, Cl. 215-254.000.
Ernest L., 4,700,860, Cl. 215-256.000.
mford, George V., 4,697,716, Cl. 215-352.000.
wicki, Casimir W.; Lucius, Thomas A.; Kaminski, Ronald S.; nd Snyder, Robert P., 4,680,000, Cl. 425-126.00R.
wicki, Casimir W., 4,690,395, Cl. 271-98.000.
en, Robert F., 4,671,843, Cl. 156-450.000.
avasilopoulos, Vasilios, 4,653,657, Cl. 215-252.000.
nzler, John A.; Krall, Thomas J.; and Nowicki, Casimir W., 4,679,997, Cl. 425-126.00R.
ber, Thomas L.; and Robinson, Gerald R., 4,671,421, Cl. 215-228.000.
Clair, David L., 4,640,855, Cl. 428-36.000.
rgill, Dennis T., 4,701,612, Cl. 250-223.00B.
artzbaugh, Peter T., 4,687,112, Cl. 215-216.000.
ndel, Alois F., 4,663,913, Cl. 53-314.000.
tson, Barry, 4,666,644, Cl. 264-41.000.
ttney, Ralph H., 4,668,458, Cl. 264-249.000.
llinois Plastic Products Inc.: *See*—
duff, Dennis C.; and Jabarin, Saleh A., 4,709,808, Cl. 206-158.000.
duff, Dennis C.; and Jabarin, Saleh A., 4,714,741, Cl. 525-185.000.
arin, Saleh A.; and Ajmera, Prakash R., 4,713,269, Cl. 28-35.000.
arin, Saleh A.; and Ajmera, Prakash R., 4,713,270, Cl. 28-35.000.
azzolo, Aldo, 4,712,680, Cl. 206-427.000.
llinois Television Products Inc.: *See*—
aver, Edward A., 4,696,909, Cl. 501-75.000.
James P.; and Deck, Charles F., to BASF Corporation. Syn- polyether thickeners and thickened aqueous systems containing 4,673,518, 6-16-87, Cl. 252-75.000.
Joe M. User-mounted concrete screed. 4,641,995, 2-10-87, Cl. 18.000.
John: *See*—
by, Noel; and Owens, John, 4,663,969, Cl. 73-159.000.
John C., to Storage Technology Corporation. Reel hub for a etic tape drive. 4,635,870, 1-13-87, Cl. 242-68.300.
Kenneth B.: *See*—
gren, Richard E.; and Owens, Kenneth B., 4,643,256, Cl. 56-303.000.
Lester J.; and Fedor, Otto H., to United States of America, nal Aeronautics and Space Administration. Personnel emer- carrier vehicle. 4,646,860, 3-3-87, Cl. 180-19.200.
Omer O.: *See*—
mer, Harold Z.; Owens, Omer O.; and Miller, Jacob I., 673,745, Cl. 546-147.000.
mer, Harold Z.; Krenzer, John; Owens, Omer O.; and Miller, cob I., 4,677,204, Cl. 546-261.000.
mer, Harold Z.; Wicks, George E., Jr.; and Owens, Omer O., 677,222, Cl. 560-133.000.
mer, Harold Z.; and Owens, Omer O., 4,686,293, Cl. 6-261.000.
Phillip M., to Glidden Company, The. Stabilized aqueous gs containing zinc oxide. 4,703,071, 10-27-87, Cl. 523-403.000.
Products, Inc.: *See*—
erson, James E.; and Carlin, Samuel R., 4,671,552, Cl. 3-144.000.
Rick L.; and Fowler, Michael J. Connector system. 4,704,091, ', Cl. 439-281.000.
Robert A.: *See*—
s, James M.; Owens, Robert A.; and Blakeney, Andrew J., 961,436, Cl. 430-326.000.
s, James M.; and Owens, Robert A., 4,670,372, Cl. 0-326.000.
Steven P., to AMP Incorporated. Connector receiving shroud ael. 4,664,462, 5-12-87, Cl. 339-65.000.
Thomas L.; Baity, Frederick W.; Hoffman, Daniel J.; and nn, John H., to United States of America, Energy. Radio ncy coaxial feedthrough device. 4,694,264, 9-15-87, Cl. 000.

Owens, Thomas M.; Wagner, Thomas J.; and Mrazek, William C., Jr., to Ralston Purina Company. Dried meat containing coating 4,702,924, 10-27-87, Cl. 426-92.000.
Owens, Valerie D.: *See*—
Sumerau, William R.; and Owens, Valerie D., 4,662,026, Cl. 15-329.000.
Owens, Warren J., to Wheel Trueing Tool Company. Rotary dressing tool. 4,685,440, 8-11-87, Cl. 125-11.0CD.
Owens, William M.: *See*—
Lincoln, Jay P.; Owens, William M.; and Ferguson, Douglas M., 4,699,271, Cl. 206-63.300.
Owensby, Max T. Flexible electromagnetic pulse shielding conduit. 4,693,323, 9-15-87, Cl. 174-35.00C.
Owsen, Paul J. All terrain vehicle. 4,671,774, 6-9-87, Cl. 440-95.000.
Owski, Alexander J.: *See*—
Holdren, Earl J.; Owski, Alexander J.; and Fouts, Paul G., 4,707,823, Cl. 370-1.000.
Oxce Fuel Company: *See*—
Lane, Robert H., 4,645,514, Cl. 44-51.000.
Oxenrider, Bryce C., to Allied Corporation. Process for the production of fluorinated pyromellitate containing mixtures useful as surfactants. 4,647,651, 3-3-87, Cl. 528-296.000.
Oxford Lasers Limited: *See*—
Kearsley, Andrew J., 4,696,011, Cl. 372-61.000.
Oxford Magnet Technology Limited: *See*—
McDougall, Ian L., 4,689,591, Cl. 335-299.000.
McDougall, Ian L.; and Bird, John M., 4,701,736, Cl. 335-299.000.
Oxford Research Systems Limited: *See*—
Ordidge, Roger, 4,714,883, Cl. 324-309.000.
Oxford Superconducting Technology: *See*—
Marancik, William G.; and Hong, Seung-Ok, 4,646,428, Cl. 29-599.000.
Oximetrix, Inc.: *See*—
Beard, Robert W., 4,640,279, Cl. 128-303.140.
Beard, Robert W., 4,690,492, Cl. 350-96.200.
Goldring, Stanley D., 4,684,245, Cl. 356-41.000.
Ogi, Darrell H., 4,650,327, Cl. 356-243.000.
Pastrone, Giovanni; and Chamness, Leland D., 4,639,245, Cl. 604-152.000.
OxiProcessing: *See*—
Zarrineghbal, Hossein; Kittrell, James R.; and Darian, Saeed T., 4,643,820, Cl. 208-222.000.
Oxley, Andrew N.; and Oxley, Douglas A. J., to PZ Products Limited. Control device for an inertia reel seat belt. 4,634,075, 1-6-87, Cl. 242-107.200.
Oxley, Christopher H.; and Holden, Anthony J., to Plessey Overseas Limited. Transistors. 4,675,712, 6-23-87, Cl. 357-22.000.
Oxley Development Company Limited: *See*—
Chambers, Jeffrey, 4,642,589, Cl. 333-182.000.
Oxley, Donald W.; Bartley, David H.; and McEntee, Timothy J., to Texas Instruments Incorporated. Apparatus and method removing increment/decrement pairs to decimate a block reference stream. 4,716,524, 12-29-87, Cl. 364-200.000.
Oxley, Donald W.: *See*—
Bartley, David H.; McEntee, Timothy J.; Oxley, Donald W.; and Thatte, Satish M., 4,660,130, Cl. 364-200.000.
Thatte, Satish; and Oxley, Donald W., 4,695,949, Cl. 364-200.000.
Oxley, Douglas A. J.: *See*—
Oxley, Andrew N.; and Oxley, Douglas A. J., 4,634,075, Cl. 242-107.200.
Oxley, Leslie J., to Ampex Corporation. Method and apparatus for combining multiple video images in three dimensions. 4,684,990, 8-4-87, Cl. 358-183.000.
Oxley, Lonnie R., to Deere & Company. Quick attachable and detach- able mower blade assembly. 4,712,364, 12-15-87, Cl. 56-295.000.
Oxley, Lonnie R., to Deere & Company. Height adjustment for a front mount mower. 4,715,168, 12-29-87, Cl. 56-15.800.
Oxley, Phillip H.; and Woods, Alan T. Combustion engine fuel delivery system. 4,667,642, 5-26-87, Cl. 123-557.000.
Oxley, Robert F. Tuning screw having a resilient plastics bush which supports the tuning plunger within a metal bush. 4,647,883, 3-3-87, Cl. 333-245.000.
Oxley, Robert F. Indicator lamps. 4,712,163, 12-8-87, Cl. 362-29.000.
Oxley, Robert F.: *See*—
Chambers, Jeffrey; and Oxley, Robert F., 4,674,815, Cl. 439-592.000.
Oxner, Clifford F. J., to Canada, Her Majesty the Queen in right of. Jellyfish array. 4,637,490, 1-20-87, Cl. 181-175.000.
Oxoid Limited: *See*—
Webster, Martyn F., 4,692,417, Cl. 436-518.000.
Oxy-Tuben AB: *See*—
Larsson, Arne, 4,662,614, Cl. 266-270.000.
Oxytechnik: *See*—
Bohm, August; Lentz, Gerhard; and Wilkens, Gunter, 4,693,761, Cl. 148-9.00R.
Oy E. Sarlin AB: *See*—
Sarvanne, Hannu, 4,676,718, Cl. 415-213.00A.
Oy Ekofinn Ab: *See*—
Salokangas, Arto, 4,693,816, Cl. 210-150.000.
Oy Fiskars AB: *See*—
Linden, Olavi, 4,714,159, Cl. 206-349.000.
Oy Hackman AB: *See*—
Kujala, Hannu, 4,704,140, Cl. 55-55.000.
Oy Kaukas AB: *See*—
Malkki, Raimo; Kuisma, Antti; and Verkasalo, Matti, 4,634,068, Cl. 242-65.000.

Oy Kontekla *See*—
Ebeling, Olavi, 4,652,365, Cl. 210-163.000.
Ebeling, Olavi, and Lunden, Risto, 4,683,685, Cl. 52-12.000.
Oy Lars Lundin Patent AB *See*—
Lundin, Lars, 4,673,497, Cl. 210-242.100.
Lundin, Lars, 4,690,093, Cl. 114-270.000.
Oy Lohja AB *See*—
Pienimaa, Seppo, 4,711,688, Cl. 156-244.120.
Tuomainen, Tapio, 4,686,418, Cl. 313-512.000.
Oy Neksa AB *See*—
Henrikson, Jukka, 4,700,366, Cl. 375-100.000.
Kurki, Jouko; Sandvik, Orjan; and Nyrkio-Maklin, Tiina, 4,671,097, Cl. 73-3.000.
Pennanen, Risto, and Pennala, Jyrki, 4,713,103, Cl. 65-3.110.
Pyhalammi, Seppo, and Reini, Matti, 4,689,805, Cl. 375-11.000.
Savolainen, Esko; Laukkarinen, Tuomo; Lehto, Arto; Okonen, Erkki; and Eilamo, Unto, 4,636,181, Cl. 474-207.000.
Oy Partek AB *See*—
Monsala, Tapio, and Gustafsson, Jukka, 4,715,877, Cl. 65-15.000.
Paakkinen, Ilmari, 4,640,074, Cl. 52-410.000.
Paakkinen, Ilmari, 4,668,447, Cl. 264-70.000.
Rantanen, Jaakko; Saveoja, Heikki; Koivula, Antti; Saarinaho, Jorma; Sihto, Reijo; and Valimaki, Yrjo, 4,641,466, Cl. 52-171.000.
Tiljander, Osa, 4,700,613, Cl. 91-485.000.
Oy Safematic Ltd. *See*—
Heilala, Antti-Juusi, 4,688,806, Cl. 277-88.000.
Koussela, Juhani; Loppert, Esko; Lummila, Markku; Salvala, Pertti; Salovaara, Esa; Suhonen, Tuomo; Perttina, Harri; Vikolainen, Esko; and Trygg, Hannu, 4,700,953, Cl. 277-38.000.
Oy Tampella AB *See*—
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Ahtola, Unto; and Kuusento, Jaakko, 4,648,467, Cl. 173-107.000.
Blomqvist, Seppo; Lumatainen, Heikki U.; Sundstrom, Kaj; and Vahtera, Risto T., 4,688,725, Cl. 241-28.000.
Hartuala, Eero; Kuusento, Jaakko; and Paasonen, Hannu, 4,711,090, Cl. 60-422.000.
Hautala, Jouko; and Pikkujamsa, Esa, 4,705,631, Cl. 210-403.000.
Henriksen, Jarmo; Wiuksanto, Risto; and Strom, Rolf, 4,702,621, Cl. 384-37.000.
Isaksanen, Onni, 4,643,619, Cl. 405-303.000.
Karna, Anssi; and Lumatainen, Heikki, 4,662,991, Cl. 162-49.000.
Kivistinen, Paul A. T.; and Hamalainen, Risto J., 4,698,994, Cl. 72-145.000.
Lajunen, Toivo; Ahonen, Juhani; and Haikkala, Pekka, 4,666,093, Cl. 241-280.000.
Leppanen, Jarmo, 4,708,532, Cl. 405-303.000.
Leppanen, Jarmo, 4,708,533, Cl. 405-303.000.
Leppanen, Jarmo, 4,710,065, Cl. 405-303.000.
Rajakallio, Pauli; and Hakkinen, Leo, 4,676,322, Cl. 173-36.000.
Rautakorpi, Paavo; Manttari, Risto; Lumatainen, Heikki; Perttu, Heikki; Tuomainen, Heikki; and Rusanen, Hannu, 4,708,011, Cl. 73-63.000.
Saarinen, Esko, 4,713,147, Cl. 162-358.000.
Salmi, Pekka; and Muuttonen, Timo, 4,702,326, Cl. 173-104.000.
Unto, Vesa; Julkunen, Pasi; Latva-Pukkila, Pasi; and Kokka, Timo, 4,671,366, Cl. 175-27.000.
Oy W. Rosenlew AB *See*—
Koskinen, Erkki, 4,715,635, Cl. 294-68.100.
Oy Wartsila AB *See*—
Collins, Geoff; and Juurmaa, Kimmo, 4,648,342, Cl. 114-40.000.
Ekblom, Karl-Erik, 4,679,376, Cl. 53-117.000.
Eklund, Dan, 4,658,753, Cl. 118-119.000.
Eklund, Dan, 4,679,524, Cl. 118-122.000.
Honkakoski, Hannu; Kalliola, Lauri; and Malkio, Hannu, 4,642,164, Cl. 162-207.000.
Heideman, Torsten; Levander, Kai; and Salmi, Pekka, 4,702,187, Cl. 114-40.000.
Huosma, Camuel, 4,641,592, Cl. 15-302.000.
Joutsjoki, Jukka, 4,663,809, Cl. 29-116.0AD.
Kuosa, Harri; and Kultaranta, Tapani, 4,633,774, Cl. 100-43.000.
Kytonen, Pauli, 4,635,867, Cl. 242-56.00R.
Kyytsonen, Markku, 4,637,566, Cl. 242-56.00R.
Kyytsonen, Markku, 4,668,328, Cl. 156-502.000.
Martikainen, Kaarlo; and Nevalainen, Kyosti, 4,686,843, Cl. 70-366.000.
Mielonen, Pekka A., 4,637,234, Cl. 70-34.000.
Nevalainen, Kyosti; and Martikainen, Kaarlo, 4,637,240, Cl. 70-366.000.
Niskanen, Heikki, 4,711,405, Cl. 242-66.000.
Onnonen, Hannu, 4,669,646, Cl. 226-194.000.
Onnonen, Hannu U., 4,709,867, Cl. 242-56.00R.
Oldfelt, Sven; and Fridolfsson, Tage, 4,704,047, Cl. 405-37.000.
Oldfelt, Sven; and Soderstrom, Sigvard, 4,713,847, Cl. 4-316.000.
Posnar, Kurt, 4,691,955, Cl. 294-142.000.
Rantanen, Rauno; and Westergard, Sivert, 4,712,506, Cl. 118-103.000.
Tomma, Kauko, 4,651,942, Cl. 242-65.000.
Tomma, Kauko, 4,691,488, Cl. 52-223.00R.
Wilkman, Goran; Kottilainen, Timo; Pulliainen, Juha; and Lindqvist, Gustav, 4,715,305, Cl. 114-40.000.
Oy Wilh.Schauman AB *See*—
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Oy Wilk & Hoglund AB *See*—
Back, John T., 4,704,244, Cl. 264-566.000.
Oya, Akiyoshi, to Nippon Gakki Seizo Kabushiki Kaisha, Electronic musical instrument, 4,643,066, 2-17-87, Cl. 84-1.010.
Oya, Masashi *See*—
Idese, Kazuo; Oya, Masashi; Hayashi, Kanji; Egawa, Tsuneo; Shimazutsu, Hiroaki; Ibushi, Junichi; Yamamoto, Kenji; Miyaguchi, Kanehisa; and Dohi, Tatsunari, 4,671,057, Cl. 58-49.000.
Oya, Takeo, to NEC Corporation, Diagnostic disk for checking head alignment of magnetic disk drives, 4,694,359, 9-15-87, Cl. 360-76.000.
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Kataoka, Akira; Hawai, Yasuo; Fujii, Hidehiko; Oya, Tetsuro; and Fujino, Akihiko, 4,692,010, Cl. 354-273.000.
Oya, Yuichiro, to Sharp Kabushiki Kaisha, Microwave oven with door latching assembly, 4,638,136, 1-20-87, Cl. 219-10.55E.
Oyagi, Takashi; and Tsuneda, Kazuyuki, to NEC Corporation, Paper with display, 4,713,659, 12-15-87, Cl. 340-825.440.
Oyazu, Takeshi, to Yamaha Valve timing control means for engine, 4,685,429, 8-11-87, Cl. 123-90.310.
Oyazu, Takeshi, to Yamaha Hatsudoki Kabushiki Kaisha, Valve timing control means for engine, 4,715,333, 12-29-87, Cl. 123-90.310.
Oyama, Akihiro; Funyu, Yutaka; and Sakurada, Kazuyuki, to Kawasaki Steel Corporation, and Marubeni Corporation, Marking device for pipe, 4,682,182, 7-21-87, Cl. 346-1.100.
Oyama, Fusami; and Takahashi, Akira, to Fuji Jukogyo Kabushiki Kaisha, Power transmission system for rear wheels of a motor vehicle, 4,681,180, 7-21-87, Cl. 180-76.000.
Oyama, Fusami *See*—
Kurokawa, Ryogo; Oyama, Fusami; Takahashi, Akira; and Hirose, Kenji, 4,652,002, Cl. 180-79.100.
Kurokawa, Ryogo; Oyama, Fusami; and Takahashi, Akira, 4,695,069, Cl. 280-91.000.
Oyama, Hiroo; and Kouchi, Tadashi, to Stanley Electric Co., Ltd., Headlamp for vehicle, 4,636,923, 1-13-87, Cl. 362-80.000.
Oyama, Kazuo *See*—
Kito, Shigeharu; Tamaki, Akira; and Oyama, Kazuo, 4,650,647, Cl. 422-169.000.
Oyama, Kiyotaka *See*—
Harada, Tuneo; and Oyama, Kiyotaka, 4,704,471, Cl. 362-441.000.
Oyama, Masumi, to Kabushiki Kaisha Toshiba, Information medium, 4,641,374, 2-3-87, Cl. 455-603.000.
Oyama, Minoru; and Kinugawa, Ryoji, to Alps Electric Co., Ltd., Display element attachment holder, 4,674,008, 6-16-87, Cl. 361-417.000.
Oyama, Motofumi; Kubo, Yoichiro; and Honda, Toshiharu, to Nippon Zeon Co., Ltd., Belt comprising rubber and fiber, 4,643,938, 2-17-87, Cl. 428-268.000.
Oyama, Motofumi; Honda, Toshiharu; and Kubo, Yoichiro, to Nippon Zeon Co., Ltd., Rubber member having oil resistance and resistance to deterioration, 4,656,219, 4-7-87, Cl. 524-481.000.
Oyama, Takuji; and Mizuhashi, Mamoru, to Asahi Glass Company Ltd., Optical article having improved heat resistance, 4,640,867, 2-3-87, Cl. 428-432.000.
Oyama, Yoshihige *See*—
Nishimura, Yutaka; and Oyama, Yoshihige, 4,339,581, Cl. 73-202.000.
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Oyamada, Takashi, to NEC Corporation, Housing assembly for portable radio apparatus with one-piece baseplate and battery container, 4,641,370, 2-3-87, Cl. 455-348.000.
Oyamada, Takashi, to NEC Corporation, Structure for connecting leadless chip carrier, 4,692,790, 9-8-87, Cl. 357-79.000.
Oyamada, Takashi *See*—
Kai, Osamu; Oyamada, Takashi; and Iwabuchi, Shin, 4,660,705, Cl. 194-318.000.
Oyamoto, Toshiya; Makino, Katsuaki; and Ogawara, Fumio, to Mitsubishi Jukogyo Kabushiki Kaisha, and Nippon Kokan Kabushiki Kaisha, Process for recovering heat of a tar-containing high-temperature gas, 4,702,818, 10-27-87, Cl. 208-81.000.
Oyler, John F.; Brand, Jerry D.; and Zavada, Richard, to Dravo Corporation, Circular solvent extractor, 4,683,029, 7-28-87, Cl. 196-14.52.
Oyo Corporation *See*—
Hall, Ernest M., Jr., 4,663,747, Cl. 367-178.000.
Hall, Ernest M., Jr.; and Burt, Jeffrey A., 4,710,593, Cl. 174-88.00R.
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Hoshizaki, Hiroki; Kawahara, Nobuaki; Suzuki, Hirofumi; and Oyobe, Kazuo, 4,711,990, Cl. 219-552.000.
Yoshida, Hitoshi; Suzuki, Hirofumi; Oyobe, Kazuo; Nomura, Etsuji; Matsui, Kazuma; and Miwa, Naoto, 4,671,051, Cl. 60-303.000.
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Katsumata, Ryoichi; Ozaki, Akio; Oka, Tetsuo; and Furuya, Akira, 4,710,471, Cl. 435-253.000.
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Yumikura, Tsuneo; Ikeuchi, Masaki; Nakao, Kazushige; and Ozaki, Eiichi, 4,651,819, Cl. 165-115.000.
Ozaki, Haruhiko; Yamada, Tadatoshi; Machida, Kunio; Ohno, Kiyoshi; Shimazaki, Hirato; Inoue, Hidekimi; and Uji, Ryohei, to Bridgestone

Corporation: High speed instantaneous multi-image recorder. 4,733,607, 12-15-87, Cl. 358-107.000.
Ozaki, Hideji: Ship with propeller shaft partition rings. 4,659,316, 4-21-87, Cl. 440-83.000.
Ozaki, Hidemichi, to Kabushiki Kaisha Toshiba: X-ray tube. 4,679,219, 7-7-87, Cl. 378-121.090.
Ozaki, Hidetoshi, to Victor Company of Japan, Ltd.: Noise reduction circuit for video signal. 4,652,922, 3-24-87, Cl. 358-167.000.
Ozaki, Hidetoshi, to Victor Company of Japan, Ltd.: Noise reduction circuit for video signal. 4,709,269, 11-24-87, Cl. 358-167.000.
Ozaki, Hideyuki: *See*—
Fujishima, Kazuyasu; Shimotori, Kazuhiro; Ozaki, Hideyuki; Miyatake, Hideshi; and Tomisato, Masahiro. 4,658,379, Cl. 365-200.000.
Shimotori, Kazuhiro; Fujishima, Kazuyasu; Ozaki, Hideyuki; and Miyatake, Hideshi. 4,641,286, Cl. 365-230.000.
Ozaki, Hirofumi: *See*—
Katsuragi, Koji; Ozaki, Hirofumi; Kawahara, Yoshihiro; Matsumoto, Hideki; Tomoe, Tetsuro; and Kobayashi, Kazuhiro. 4,687,357, Cl. 400-208.000.
Ozaki, Hiroji: *See*—
Nakajima, Masayuki; Sato, Shinichi; Tokui, Akira; Kawai, Akira; Nagamitsu, Masao; and Ozaki, Hiroji. 4,702,796, Cl. 156-653.000.
Ozaki, Hiromi: *See*—
Sato, Yasukazu; Matsuda, Kenichi; Ozaki, Hiromi; Suzuka, Tetsuo; and Yamane, Mamoru. 4,643,813, Cl. 204-157.780.
Ozaki, Kazuhisa: *See*—
Sakakibara, Shiro; and Ozaki, Kazuhisa. 4,709,793, Cl. 192-4.00A.
Ozaki, Kitao: *See*—
Hasegawa, Mineo; and Ozaki, Kitao. 4,705,755, Cl. 435-316.000.
Ozaki, Kiyotaka; Toru, Shinji; Joshi, Tomio; and Imaeda, Takashi, to Nissan Motor Co., Ltd.: Limited slip differential. 4,679,463, 7-14-87, Cl. 74-711.000.
Ozaki, Masaki: *See*—
Kurihara, Norimitsu; Ozaki, Masaki; Ochi, Hiroshi; and Asakura, Masahiko. 4,681,070, Cl. 123-179.00H.
Ozaki, Masaharu: *See*—
Shibahashi, Yutaka; Nakanishi, Norikazu; Kataoka, Takashi; Inagaki, Hiroshi; Kito, Tatsuma; Ozaki, Masaharu; Matsunami, Nobuaki; Ishimura, Naoya; and Fujita, Katsuyuki. 4,681,791, Cl. 428-96.000.
Ozaki, Masakazu: *See*—
Yamamoto, Tsutomu; Nishiyama, Michio; Yamamoto, Mitsuo; and Ozaki, Masakazu. 4,690,867, Cl. 428-367.000.
Ozaki, Masakuni: *See*—
Enomoto, Hiroshi; Kise, Masahiro; Ozaki, Masakuni; Kitano, Masahiko; and Morita, Iwao. 4,659,734, Cl. 514-255.000.
Ozaki, Masanao: *See*—
Shirahara, Emiko; Sugiyama, Katsumi; Ozaki, Masanao; and Matsuda, Kenzo. 4,638,790, Cl. 560-40.000.
Ozaki, Masaru: *See*—
Arikawa, Tatsumi; Ozaki, Masaru; and Ikeda, Yukihiro. 4,701,317, Cl. 423-445.000.
Ota, Isao; and Ozaki, Masaru. 4,645,691, Cl. 427-180.000.
Ota, Isao; Ozaki, Masaru; and Fujii, Tadashi. 4,684,709, Cl. 528-35.000.
Ozaki, Minoru; and Tanaka, Kunimaro, to Mitsubishi Denki Kabushiki Kaisha: PCM signal transmission system. 4,703,494, 10-27-87, Cl. 375-19.000.
Ozaki, Minoru: *See*—
Furukawa, Tetsuo; and Ozaki, Minoru. 4,672,362, Cl. 340-347.00D.
Tanaka, Kunimaro; and Ozaki, Minoru. 4,701,812, Cl. 360-32.000.
Ozaki, Nobuo, to Mazda Industries, Ltd.: Bicycle caliper brake assembly. 4,667,774, 5-26-87, Cl. 188-24.120.
Ozaki, Norihiko: *See*—
Senoda, Shinji; Ozaki, Norihiko; Watahiki, Seishi; Sakuma, Yasuzo; and Yamaguchi, Masayoshi. 4,644,791, Cl. 73-432.100.
Suzuki, Masanori; Ichikawa, Yoshiaki; Iwatsuka, Nobuyoshi; and Ozaki, Norihiko. 4,662,814, Cl. 414-730.000.
Tomizawa, Fumio; Mizuno, Katsuhiro; Ozaki, Norihiko; and Tsuchita, Kenji. 4,668,976, Cl. 358-27.000.
Ozaki, Rosuke, to O. Key Printed Wiring Co., Ltd.: Printed circuit board and method of manufacturing same. 4,689,442, 8-25-87, Cl. 174/68.500.
Ozaki, Rosuke: *See*—
Nitomiya, Takeshi; and Ozaki, Rosuke. 4,663,208, Cl. 428-138.000.
Ozaki, Set; and Futamura, Shoji, to NGK Insulators, Ltd.; and Institute of Technology Precision Electrical Discharge Works: Die for extruding honeycomb structural body. 4,653,996, 3-31-87, Cl. 425-461.000.
Ozaki, Set; Futamura, Shoji; Kojima, Masaru; and Inoue, Satoru, to NGK Insulators, Ltd.; and Institute of Technology Precision Electrical Discharge Works: Die for extruding ceramic honeycomb structural bodies. 4,687,433, 8-18-87, Cl. 425-464.000.
Ozaki, Set; and Futamura, Shoji, to NGK Insulators, Ltd.; and Institute of Technology Precision Electrical Discharge Works: Method of manufacturing a die for extruding honeycomb body. 4,707,904, 11-24-87, Cl. 29-445.000.
Ozaki, Shinya: *See*—
Ohka, Kentaro; Fukami, Tadashi; and Ozaki, Shinya. 4,646,171, Cl. 360-32.000.
Ohka, Kentaro; Fukami, Tadashi; and Ozaki, Shinya. 4,669,000, Cl. 360-32.000.
Ozaki, Tadao: *See*—
Dr. Tsutomu; Kimura, Shigeaki; Yuzaki, Yoshinori; and Ozaki, Tadao. 4,640,453, Cl. 228-17.700.
Ozaki, Takayuki, to Fujitsu Limited: Digital radio receiving apparatus. 4,656,644, 4-7-87, Cl. 375-14.000.
Ozaki, Takayuki, to Kabushiki Kaisha Toshiba: Gray scale transformation circuit. 4,670,788, 6-2-87, Cl. 358-164.000.
Ozaki, Tatsuhiko: *See*—
Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko. 4,649,206, Cl. 549-435.000.
Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko. 4,708,820, Cl. 252-399.000.
Ozaki, Toshifumi: *See*—
Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masahi; Ozaki, Toshifumi; Shimohiganshi, Katsuhiro; and Ikenaga, Shinichi. 4,636,985, Cl. 365-189.000.
Koike, Norio; Nakai, Masaaki; Ando, Haruhisa; Ozaki, Toshifumi; Ohba, Shinya; Ono, Hideyuki; and Akiyama, Toshiyuki. 4,689,687, Cl. 358-213.240.
Ozaki, Toshiharu: *See*—
Nagata, Osamu; Kajima, Takashi; and Ozaki, Toshiharu. 4,688,139, Cl. 361-154.000.
Ozaki, Toshiharu: *See*—
Nagata, Osamu; Kajima, Takashi; and Ozaki, Toshiharu. 4,688,138, Cl. 361-154.000.
Ozaki, Tsuneo: *See*—
Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo. 4,667,400, Cl. 29-825.000.
Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo. 4,686,328, Cl. 174-153.00R.
Ozaki, Yasuto: Apparatus for projecting luminous lines on an object by a laser beam. 4,693,567, 9-15-87, Cl. 350-433.000.
Ozaki, Yoshiaki; and Takanashi, Mahito, to Janome Sewing Machine Co., Ltd.: Supporting device of a shaft drive of a magnetic record and reproduction device. 4,707,751, 11-17-87, Cl. 360-97.000.
Ozaki, Yoshiaki: *See*—
Nomoto, Reishi; and Ozaki, Yoshiaki. 4,688,125, Cl. 360-99.000.
Ozaki, Yoshimi; and Sueoka, Eizo, to Mitsui Petrochemical Industries, Ltd.: Halogenated ethylene random copolymer. 4,677,166, 6-30-87, Cl. 525-334.100.
Ozaki, Yoshio; and Tsurumoto, Kazuo, to Mitsubishi Denki Kabushiki Kaisha: Power source for wire cut electrical discharge machining. 4,673,789, 6-16-87, Cl. 219-69.00W.
Ozaki, Yoshio; Tsurumoto, Kazuo; Yatomi, Takeshi; and Yamamoto, Masahiro, to Mitsubishi Denki Kabushiki Kaisha: Electric discharge machine with control of the machining pulse's current value in accordance with the delay time. 4,695,696, 9-22-87, Cl. 219-69.00P.
Ozaki, Yukinori; and Yamashiachi, Shuji, to Mitsushita Electric Industrial Co., Ltd.: Flow rate detecting device. 4,658,654, 4-21-87, Cl. 73-861.050.
Ozaki, Yukio: *See*—
Toda, Masumi; Ozaki, Yukio; and Nonaka, Shingo. 4,638,945, Cl. 239-143.000.
Ozari, Yehuda: *See*—
Bordolois, Binoy K.; Ozari, Yehuda; and Dever, Gerald R., 4,714,655, Cl. 428-345.000.
Ozawa, Hiroshi: *See*—
Tamio, Yoshio; Yamamoto, Fumio; Shiono, Manzo; Koichira, Koichi; Ozawa, Hiroshi; and Nomoto, Kaoru. 4,656,195, Cl. 514-772.000.
Ozawa, Susumu: *See*—
Endo, Junji; Tomomura, Akira; Ozawa, Susumu; Matsuda, Tsuyoshi; Kimura, Chikara; and Osakabe, Nobuyuki. 4,642,461, Cl. 250-311.000.
Saitou, Norio; Ozawa, Susumu; Okumura, Masahide; Ooyama, Mitsuo; Komoda, Tsutomu; Harada, Katsuharu; Fujinami, Mineo; and Iwadate, Kazumi. 4,692,579, Cl. 250-492.200.
Tokiguchi, Katsumi; Koike, Hidemi; Sakudo, Noriyuki; Okada, Osami; Ninomiya, Ken; and Ozawa, Susumu. 4,658,143, 4-7-87, Cl. 250-423.00R.
Ozato, Yukimori: *See*—
Yamamoto, Michihiro; Ozato, Yukimori; Tamura, Nobuhiko; Miyagishi, Akira; and Hara, Youichi. 4,705,786, Cl. 514-252.000.
Ozawa, Akira: *See*—
Mochizuki, Asahi; Ozawa, Akira; Fujita, Shinichiro; and Yamada, Kuniaki. 4,698,446, Cl. 246-169.00S.
Suzuki, Mitsuo; Hashimoto, Hitoshi; Ichikawa, Nobuyasu; Yamada, Ichiho; Ozawa, Akira; and Matsuyama, Taizo. 4,656,726, Cl. 29-568.000.
Ozawa Concrete Industry Co., Ltd.: *See*—
Suzuki, Osamu; Ishizaki, Kanjiro; and Ozawa, Seiichi, deceased. 4,687,614, Cl. 264-40.100.
Ozawa, Hiroshi; Hosono, Yoichi; Hirose, Sumio; Sasagawa, Katsuyoshi; and Imai, Masao. Optical recording medium. 4,707,430, 11-17-87, Cl. 430-270.000.
Ozawa, Hiroshi: *See*—
Sasagawa, Katsuyoshi; Nishihara, Kunio; Ozawa, Hiroshi; and Imai, Masao. 4,707,425, Cl. 430-21.000.
Ozawa, Hiroyasu: *See*—
Tanabe, Hisao; Takahashi, Masaru; Ozawa, Hiroyasu; Machida, Shoichi; and Kitamura, Makoto. 4,683,993, Cl. 188-321.110.
Ozawa, Hitoshi: *See*—
Matoba, Yoshiaki; and Ozawa, Hitoshi. 4,637,786, Cl. 418-55.000.
Yano, Hideo; Kano, Keiichi; Ozawa, Hitoshi; Kato, Shinji; and Takagi, Yoshio. 4,666,786, Cl. 428-544.000.
Ozawa, Isao; Ito, Noboru; Takizawa, Masaaki; Ohta, Yoshio; and Iichi, Kiyoteru, to Toyoda Gosei Co., Ltd.; and Toyota Jidosha Kabushiki

Kaisha. Fluid-filled damper device. 4,635,910, 1-13-87, Cl. 267-140.100.
Ozawa, Juichiro, to Susumu Industrial Co., Ltd.; and Thin Film Technology Corporation. Delay line device having symmetrical delay path. 4,641,113, 2-3-87, Cl. 333-161.000.
Ozawa, Juichiro, to Susumu Industrial Co., Ltd.; and Thin Film Technology Corporation. Chip resistor. 4,684,916, 8-4-87, Cl. 338-308.000.
Ozawa, Kazunori; and Araseki, Takashi, to NEC Corporation. Method and apparatus for encoding voice signals. 4,716,592, 12-29-87, Cl. 381-40.000.
Ozawa, Kazuo: *See*—
Machida, Tetsuo; and Ozawa, Kazuo, 4,706,149, Cl. 360-132.000.
Ozawa, Koichi: *See*—
Iwamura, Yoshinari; Okimoto, Katsunori; Teshima, Toshio; Miyahara, Shinobu; Uchida, Shigetaka; Sera, Taizo; and Ozawa, Koichi, 4,646,977, Cl. 239-590.500.
Ozawa, Kunichi; Goto, Yasuhiro; Nakase, Hiromi; and Yukino, Shinya, to Matsushita Electric Industrial Co., Ltd. Optical rotation detecting apparatus. 4,644,157, 2-17-87, Cl. 250-231.0SE.
Ozawa, Kunitaka; Haruta, Masahiro; Eida, Tsuyoshi; and Hamamoto, Takashi, to Canon Kabushiki Kaisha. Ink production system. 4,664,815, 5-12-87, Cl. 210-96.100.
Ozawa, Kunitaka; Ayata, Naoki; Suzuki, Hidetoshi; Saito, Seiji; and Koumura, Noboru, to Canon Kabushiki Kaisha. Color image reading apparatus. 4,694,502, 9-15-87, Cl. 382-17.000.
Ozawa, Kunitaka; Haruta, Masahiro; Eida, Tsuyoshi; and Hamamoto, Takashi, to Canon Kabushiki Kaisha. Dyestuff refining system. 4,698,151, 10-6-87, Cl. 210-96.100.
Ozawa, Kunitaka; Nakamura, Takashi; Katayama, Akira; Hatanaka, Katsunori; Mori, Tetsuzo; and Takaoka, Makoto, to Canon Kabushiki Kaisha. Recording apparatus. 4,716,421, 12-29-87, Cl. 346-140.00R.
Ozawa, Kunitaka: *See*—
Ayata, Naoki; Saito, Seiji; Suzuki, Hidetoshi; Ozawa, Kunitaka; and Koumura, Noboru, 4,707,713, Cl. 346-140.00R.
Matsushita, Koichi; Isohata, Junji; Yamamoto, Hiromori; Miyazaki, Makoto; Ozawa, Kunitaka; and Yoshinari, Hideki, 4,676,630, Cl. 355-53.000.
Nishimura, Yukuo; Asano, Toshiaki; Mizusawa, Nobutoshi; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,640,592, Cl. 350-96.320.
Nishimura, Yukuo; Kawakami, Eigo; Asano, Toshiaki; Haruta, Masahiro; Takagi, Hiroshi; Noma, Takashi; Mizusawa, Nobutoshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,685,766, Cl. 350-96.320.
Ozawa, Masakazu; Ozawa, Kunitaka; Hatanaka, Katsunori; Suzuki, Tetsuo; Mori, Tetsuzo; Shiina, Tadashi; and Ebinuma, Ryuichi, 4,651,173, Cl. 346-136.000.
Ozawa, Masaaki: *See*—
Nakano, Sota; and Ozawa, Masaaki, 4,655,979, Cl. 264-42.000.
Nakano, Sota; and Ozawa, Masaaki, 4,683,003, Cl. 106-86.000.
Ozawa, Masakazu; Ozawa, Kunitaka; Hatanaka, Katsunori; Suzuki, Tetsuo; Mori, Tetsuzo; Shiina, Tadashi; and Ebinuma, Ryuichi, to Canon Kabushiki Kaisha. Continuous-form recorder having decrumpling means for removing creases in the form. 4,651,173, 3-17-87, Cl. 346-136.000.
Ozawa, Masakazu: *See*—
Ichihashi, Hiroo; Ozawa, Masakazu; Ebinuma, Ryuichi; and Saito, Atsushi, 4,695,855, Cl. 346-145.000.
Ichihashi, Hiroo; Ozawa, Masakazu; Saito, Atsushi; and Ebinuma, Ryuichi, 4,704,620, Cl. 346-140.00R.
Sugitani, Hiroshi; Ozawa, Masakazu; Matsuda, Hiroto; Ikeda, Masami; and Matsumoto, Haruyuki, 4,701,766, Cl. 346-1.100.
Ozawa, Michihiro: *See*—
Mochida, Takaaki; Yamashita, Junichi; Yoshioka, Toshiro; and Ozawa, Michihiro, 4,683,113, Cl. 376-419.000.
Ozawa, Mishihiro: *See*—
Ishikawa, Toshimitsu; Ozawa, Mishihiro; Sakurai, Mikio; Konno, Mutsuo; Aizawa, Yasuhiro; Igarashi, Takao; and Hirakawa, Hiromasa, 4,686,079, Cl. 376-444.000.
Ozawa, Mitsuhiro: *See*—
Ishii, Masami; Sugimoto, Hitoshi; Ozawa, Mitsuhiro; and Onoda, Yoshitomi, 4,663,957, Cl. 72-179.000.
Ozawa, Motoo, to Honda Giken Kogyo Kabushiki Kaisha. Radiator for vehicles, having improved mountability into vehicles. 4,640,341, 2-3-87, Cl. 165-41.000.
Ozawa, Motoo: *See*—
Saito, Naoyuki; and Ozawa, Motoo, 4,709,774, Cl. 180-229.000.
Ozawa, Naoki; Akiyama, Toshiyuki; Satoh, Kazuhiro; Nagahara, Syusaku; and Mimura, Itaru, to Hitachi, Ltd. Chrominance signal interpolation device for a color camera. 4,716,455, 12-29-87, Cl. 358-44.000.
Ozawa, Norihiko: *See*—
Kitabayashi, Motoi; Hayashi, Takuo; Ozawa, Norihiko; Hirasawa, Yukihiro; and Miyazawa, Naotoshi, 4,647,813, Cl. 313-509.000.
Ozawa, Norio: *See*—
Takeoka, Yoshikatsu; Ozawa, Norio; and Yasuda, Nobuaki, 4,663,008, Cl. 204-192.260.
Takeoka, Yoshikatsu; Ozawa, Norio; and Yasuda, Nobuaki, 4,702,991, Cl. 430-270.000.
Ozawa, Seiichi, deceased: *See*—
Suzuki, Osamu; Ishizaki, Kanjiro; and Ozawa, Seiichi, deceased, 4,687,614, Cl. 264-40.100.
Ozawa, Shinichi; and Mizutani, Masayuki, to Tokai Electric Wire Company Limited. Connector terminal examination device. 4,658,212, 4-14-87, Cl. 324-158.00F.
Ozawa, Shuji: *See*—
Ishikawa, Katsutoshi; Shimotori, Hitoshi; Iida, Noboru; Ozawa, Shuji; and Inami, Shunichi, 4,652,569, Cl. 514-269.000.
Ozawa, Takashi: *See*—
Sato, Shigeru; and Ozawa, Takashi, 4,680,477, Cl. 250-578.000.
Ozawa, Takurou: *See*—
Tsutsumi, Sunsaku; and Ozawa, Takurou, 4,702,117, Cl. 74-89.170.
Ozawa, Tateki; Yotsumoto, Hatsuo; and Takeyama, Tetsu, to Mitsubishi Denki Kabushiki Kaisha. Automatic observation system for microorganisms and the like. 4,647,540, 3-3-87, Cl. 435-291.000.
Ozawa, Toshiaki; Yamada, Yasuaki; and Kondo, Hiroatsu, to Canon Kabushiki Kaisha. Printer with improved carriage and character wheel driving means. 4,640,634, 2-3-87, Cl. 400-144.200.
Ozawa, Toshiaki: *See*—
Kondo, Hiroatsu; Ozawa, Toshiaki; and Yamada, Yasuki, 4,655,624, Cl. 400-208.000.
Ozawa, Toshiro, to Ricoh Company, Ltd. Compact zoom lens. 4,699,474, 10-13-87, Cl. 350-427.000.
Ozawa, Yasuhiko: *See*—
Oba, Harutaro; Ozawa, Yasuhiko; Yamaguchi, Yasuyoshi; and Mimoto, Osamu, 4,681,422, Cl. 355-3.00R.
Ozawa, Yasutomo: *See*—
Aoki, Yoshiaki; Kayukawa, Naoyuki; Yamazaki, Hatsuo; Ozawa, Yasutomo; and Kitagawa, Hiroki, 4,707,147, Cl. 374-161.000.
Ozawa, Yoshihiro: *See*—
Fukasawa, Tetsuo; Ohtsuka, Masaharu; Uetake, Naohito; and Ozawa, Yoshihiro, 4,659,511, Cl. 252-628.000.
Ozawa, Yoshiko, heiress: *See*—
Suzuki, Osamu; Ishizaki, Kanjiro; and Ozawa, Seiichi, deceased, 4,687,614, Cl. 264-40.100.
Ozawa, Yuichi: *See*—
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,653,571, Cl. 164-490.000.
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,688,624, Cl. 164-440.000.
Ozawa, Yutaka: *See*—
Katayama, Kazuso; Mori, Yasushi; Kanki, Hiroshi; Mori, Shigeki; Takeshita, Koji; Ozawa, Yutaka; and Yoshida, Zenichi, 4,660,838, Cl. 277-97.000.
Ozdemir, Nazmi. Device for securing a dosing apparatus on a bottle. 4,651,901, 3-24-87, Cl. 222-153.000.
Ozdemir, Nazmi. System for activating a dosing apparatus for dispensing predetermined quantities of a beverage from a bottle. 4,660,742, 4-28-87, Cl. 222-36.000.
Ozdemir, Veli. Swimming pool cover. 4,683,686, 8-4-87, Cl. 52-64.000.
Ozeki, Hirofumi; and Kambe, Takahide, to Gifu Husky Co., Ltd. Hot runner mold for injection molding. 4,657,496, 4-14-87, Cl. 425-130.000.
Ozeki, Jiro, to Slidex Corporation. Jacket for strip films. 4,635,796, 1-13-87, Cl. 206-456.000.
Ozeki, Jiro, to Slidex Corporation. Information recording carrier-holding frame. 4,691,826, 9-8-87, Cl. 206-456.000.
Ozeki, Khoji; Sawada, Masahiro; Kimura, Isami; Kataoka, Mikio; Sato, Makoto; and Yamada, Toshihiro, to Morishita Pharmaceutical Co. Ltd. 2-anilino-1,6-dihydro-6-oxo-5-pyrimidine-carboxylic acid derivatives, process for the preparation thereof, and antiallergic agent containing the same. 4,666,915, 5-19-87, Cl. 514-272.000.
Ozeki, Kiyoshi: *See*—
Noda, Kimio; Ozeki, Kiyoshi; Furukawa, Hiroaki; and Watai, Katsunori, 4,695,730, Cl. 250-370.000.
Ozeki, Mamoru, to Toshiba Kikai Kabushiki Kaisha. Arrangement for controlling an injection process of a die casting machine. 4,660,620, 4-28-87, Cl. 164-457.000.
Ozeki, Shoichi: *See*—
Miyakawa, Nobuaki; Yazawa, Yoshiaki; Ozeki, Shoichi; and Mitsumoto, Kinya, 4,665,505, Cl. 365-177.000.
Ozeki, Takeshi; and Tsubura, Shinichi, to Kabushiki Kaisha Toshiba. Method and apparatus for obtaining three dimensional tomographic images by interpolation of a plurality of projection slice data and for obtaining projection data for a chosen slice. 4,674,046, 6-16-87, Cl. 364-414.000.
Ozeki, Takeshi: *See*—
Shibagaki, Taro; Ibe, Hiroyuki; Tamura, Toshifumi; Ozeki, Takeshi; and Hirayama, Yoichi, 4,704,715, Cl. 370-50.000.
Ozen Corporation: *See*—
Koike, Eishi, 4,648,086, Cl. 369-65.000.
Koike, Eishi, 4,670,867, Cl. 369-65.000.
Koike, Eishi, 4,670,868, Cl. 369-65.000.
Koike, Eishi, 4,694,444, Cl. 369-65.000.
Koike, Eishi, 4,694,445, Cl. 369-65.000.
Koike, Eishi, 4,694,446, Cl. 369-67.000.
Koike, Eishi, 4,701,681, Cl. 318-16.000.
Koike, Eishi, 4,705,994, Cl. 318-16.000.
Ozer, Theodore: *See*—
Douglas, William A.; and Ozer, Theodore, 4,684,113, Cl. 269-21.000.
Ozersky, Jury P.: *See*—
Vinogradov, Alexei V.; Makarova, Inna I.; Alexandrov, Jury N.; Gaiaktionov, Viktor A.; and Ozersky, Jury P., 4,651,748, Cl. 128-680.000.
Ozil, Maurice; and Faiguieres, Alain. Universal coupling means. 4,682,285, 7-21-87, Cl. 364-200.000.

, Kazuhira. *See—*
eranishi, Katsuya; Ozima, Kazuhira; Saito, Cyuichi; and Ogawa, Hiroyasu, 4,682,681, Cl. 198-333.000.
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liyata, Seizo; and Ozio, Takeaki, 4,699,806, Cl. 437-176.000.
, Adil N., to Biostar Medical Products, Inc. Article for determining the presence of immune complexes, 4,681,782, 7-21-87, Cl. 16.000.
ek, Inc.: *See—*
arleson, James C., 4,640,782, Cl. 210-748.000.
, Karlis V. Force responsive device, 4,648,273, 3-10-87, Cl. 73-0[illegible]M.
, Toshio. *See—*
amamoto, Toshiro; Kobayashi, Ryohei; Kurimoto, Mamoru; and Ozone, Toshio, 4,711,675, Cl. 148-144.000.
Akira. *See—*
guka, Jiro; and Ozu, Akira, 4,646,156, Cl. 358-225.000.
Masao, to Kabushiki Kaisha Toshiba. Compressor for reversible ligeration cycle, 4,702,088, 10-27-87, Cl. 62-324.100.
Tadahiro; Nakayama, Nobuyoshi; and Fujii, Tatsuo, to Kawasaki ryo Kabushiki Kaisha. Gas injection valve for gas engine, 7,136, 8-18-87, Cl. 239-8.00X.
Tadahiro. *See—*
akano, Hideaki; and Ozu, Tadahiro, 4,635,596, Cl. 123-197.0AB.
akano, Hideaki; and Ozu, Tadahiro, 4,640,236, Cl. 123-41.790.
mu, Kyohei. *See—*
akai, Hiroyasu; Ikeda, Toshio; Ando, Shiro; and Ozutsumi, Kyohei, 4,668,457, Cl. 264-227.000.
dustries, Inc.: *See—*
mburner, Robert K., 4,664,364, Cl. 269-32.000.
entrop, Hubbert & Wagner Fahrzeugausstatungen GmbH & Co. *See—*
ahlmann, Ernst, 4,668,013, Cl. 297-362.000.
ark Holding APS: *See—*
ek, Poul E., 4,688,398, Cl. 62-342.000.
Medicament: *See—*
ause, Henri; Delhon, Andre; Rieu, Jean-Pierre; and Patoiseau, Jean-Francois, 4,714,789, Cl. 568-807.000.
Industries, Inc.: *See—*
ite, Peter G., 4,712,763, Cl. 248-553.000.
Enterprises Limited (Musical Products). *See—*
obble, Terence H., 4,682,451, Cl. 52-97.000.
Sales Co.: *See—*
cks, Jimmy F., 4,633,544, Cl. 16-35.00R.
ticone's Inc.: *See—*
icone, Paul J., II, 4,674,303, Cl. 70-63.000.
weegers en Zonen, B.V.: *See—*
flart, Johannes A., 4,709,540, Cl. 56-13.600.
Research Limited: *See—*
rter, Frank B., 4,680,215, Cl. 428-107.000.
rter Company: *See—*
naka, Aki, 4,634,182, Cl. 297-379.000.
naka, Aki; and Landis, David E., 4,685,736, Cl. 297-366.000.
elinsky Electrotekhnichesky Zavod: *See—*
rahan, Viktor P.; Zabrovsky, Stanislav G.; Zvyagin, Albert F.; Lazarev, Grigory B.; and Tars, Yaak. A., 4,685,045, Cl. 363-68.000.
Inc.: *See—*
dwig, Frank, 4,640,119, Cl. 73-12.000.
Inc.: *See—*
meron, Joseph, 4,644,105, Cl. 379-56.000.
Tool, Inc.: *See—*
ndez, Pierre G., 4,668,134, Cl. 408-97.000.
dustries, Inc.: *See—*
ft, John R., 4,666,117, Cl. 248-243.000.
s, Peter G.: *See—*
s, Peter G. P.; and Sammells, Anthony F., 4,673,473, Cl. 204-9.00R.
sulting Services Limited: *See—*
rry, Alan, 4,678,139, Cl. 242-199.000.
rry, Alan, 4,705,417, Cl. 400-235.000.
rry, Alan J.; Poley, John; and MacArthur, Douglas S., 4,665,321, Cl. 101-110.000.
rry, Alan J.; Poley, John; and MacArthur, Douglas S., 4,676,155, Cl. 101-110.000.
lor, Peter J., 4,637,055, Cl. 382-31.000.
rporated: *See—*
ffield, James E.; Kahil, John E.; Jaynes, Mark S.; Moake, Gordon L.; Milewits, Marvin; Bolton, Curtis W., III; Lam, Clive ; and Stanley, Roderic K., 4,710,712, Cl. 324-227.000.
d, John E.; Milewits, Marvin; Bradfield, James E.; and Lam, live C., 4,636,727, Cl. 324-227.000.
d, John E.; Jaynes, Mark S.; and Harrell, Kirby R., 4,715,442, l. 166-250.000.
ke, Gordon L.; and Milewits, Marvin, 4,698,590, Cl. 4-160.000.
ke, Gordon L.; and Bradfield, James E., 4,704,580, Cl. 4-242.000.
n, Ilmari, to Oy Partek AB. Concrete building unit of a sand-tructure and a truss element and an insulating plate for such a g unit, 4,640,074, 2-3-87, Cl. 52-410.000.
n, Ilmari, to Oy Partek AB. Method and device for the casting crete products, 4,668,447, 5-26-87, Cl. 264-70.000.
ent F., to Exxon Production Research Company. Method for ining a surface consistent correction for the effects of the low velocity layer in seismic data processing, 4,695,984, 9-22-87, Cl. 367-54.000.
Paal, Tibor. *See—*
Baviere, Marc; Moulu, Jean-Claude; Paal, Tibor; Tiszai, Gyorgy; Gaal, Gyorgyi; Schmidt, Laszlo; and Gesztesi, Gyula, 4,648,451, Cl. 166-273.000.
Paap, Hans J.: *See—*
Savage, Kerry D.; Cox, Percy T.; and Paap, Hans J., 4,636,731, Cl. 324-338.000.
Paar, Willibald; and Honig, Helmut, to Vianova Kunstharz, A.G. Pigment grinding vehicles for use in water-dilutable paints, 4,683,285, 7-28-87, Cl. 528-113.000.
Paar, Willibald; Pampouchidis, Georg; and Honig, Helmut, to Vianova Kunstharz, A.G. Cathodically depositable synthetic resin binders and process for producing same, 4,684,702, 8-4-87, Cl. 525-528.000.
Paar, Willibald; Honel, Michael; and Gmoser, Johann, to Vianova Kunstharz, A.G. Self-crosslinking cationic paint binders containing urea groups and process of manufacture, 4,711,934, 12-8-87, Cl. 525-452.000.
Paar, Willibald, to Vianova Kunstharz, A.G. Self-crosslinking paint binders and process for their manufacture, 4,711,937, 12-8-87, Cl. 525-489.000.
Paar, Willibald. *See—*
Gmoser, Johann; Paar, Willibald; and Honel, Michael, 4,711,935, Cl. 525-452.000.
Paasonen, Hannu. *See—*
Hartiala, Eero; Kuusento, Jaakko; and Paasonen, Hannu, 4,711,090, Cl. 60-422.000.
Pabers, Richard F.: *See—*
Pollack, Jack; and Pabers, Richard F., 4,699,191, Cl. 141-279.000.
Pollack, Jack; and Pabers, Richard F., 4,708,178, Cl. 141-279.000.
Pabodie, Robert M.: *See—*
Hamisch, Paul H., Jr.; Makley, James A.; Pabodie, Robert M.; and Strausburg, Larry D., 4,690,317, Cl. 227-67.000.
Pabsch, Arno R. E. K., to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Boom of the wishbone-type for sailing boards, 4,700,647, 10-20-87, Cl. 114-39.000.
Pabst, Manfred; and Mevissen, Peter, to A. Monforts GmbH & Co. Infrared dryer, 4,693,013, 9-15-87, Cl. 34-4.000.
Pabst, Manfred. *See—*
Gierse, Franz-Josef; Hermanns, Heinrich; Lupnitz, Gerhard; Pabst, Manfred; and Schlicht, Heribert, 4,646,402, Cl. 26-86.000.
Pabst, Richard E. Flow through filter with backflush clearing capability, 4,648,971, 3-10-87, Cl. 210-354.000.
Pabst, Wolfgang. *See—*
Block, Werner; Pabst, Wolfgang; and Pibak, Manfred, 4,686,419, Cl. 313-641.000.
Pacala, Thomas J., to United States of America, National Aeronautics and Space Administration. Magnetically switched power supply system for lasers, 4,698,518, 10-6-87, Cl. 307-106.000.
Pacala, Thomas J.: *See—*
Laudenslager, James B.; and Pacala, Thomas J., 4,677,636, Cl. 372-68.000.
Paccar Inc.: *See—*
Bergson, Benjamin J., 4,634,476, Cl. 420-73.000.
Caley, Douglas A., 4,680,938, Cl. 62-93.000.
Giese, Ludi, 4,667,974, Cl. 280-81.00A.
Kerney, Jeffery E., 4,669,563, Cl. 180-69.240.
Koske, Charles E., 4,689,060, Cl. 55-385.00B.
Larsen, Hals N.; and Stephens, Donald L., 4,697,551, Cl. 123-41.310.
Oen, Joshua T., 4,643,468, Cl. 292-2.000.
Oen, Joshua T., 4,658,470, Cl. 16-241.000.
Pace, Incorporated: *See—*
Barkley, Vincent, 4,682,766, Cl. 269-71.000.
Barkley, Vincent P.; and Siegel, William J., 4,687,907, Cl. 219-373.000.
Barkley, Vincent P.; and Siegel, William J., 4,698,485, Cl. 219-228.000.
Barkley, Vincent P., 4,715,640, Cl. 294-106.000.
Fridman, Robert, 4,659,004, Cl. 228-6.200.
Olesen, Ole V., 4,639,618, Cl. 307-351.000.
Wallgren, Linus E.; Fridman, Robert; and Siegel, William F., 4,659,002, Cl. 228-8.000.
Wallgren, Linus E., 4,666,076, Cl. 228-20.000.
Wallgren, Linus E., 4,697,729, Cl. 228-20.000.
Pace, James W., to Boeing Company, The. Closing device for an airfoil, 4,640,477, 2-3-87, Cl. 244-214.000.
Pace, Jerry E.: *See—*
Holmes, Gerald E.; and Pace, Jerry E., 4,679,978, Cl. 414-563.000.
Pace, Nevlin C. Concentric light source to fiber coupling system, 4,678,269, 7-7-87, Cl. 350-96.180.
Pace, Sal A., and Salama, Simon S., to Union Camp Corporation. Laser induced acoustic generation for sonic modulus, 4,674,332, 6-23-87, Cl. 73-597.000.
Pace, Salvatore J.: *See—*
Bock, Jan; Valint, Paul L.; and Pace, Salvatore J., 4,702,319, Cl. 166-275.000.
Bock, Jan; Pace, Salvatore J.; and Schulz, Donald N., 4,709,759, Cl. 166-275.000.
Pace, W. David; and Welty, Dennis L., to Motorola, Inc. Control circuit for use with electronic attenuators and method for providing a control signal proportional to absolute temperature, 4,689,506, 8-25-87, Cl. 307-491.000.

Pace, W. David; and Wang, Wei C., to Motorola, Inc. Automatic restart circuit for a switching power supply. 4,716,510, 12-29-87, Cl. 363-49.000.

Pace, W. David. *See*—
Welty, Dennis L.; and Pace, W. David, 4,648,103, Cl. 377-52.000.

Pace, Wilson D., to Motorola, Inc. Capacitance multiplier circuit. 4,709,159, 11-24-87, Cl. 307-227.000.

Pacefault Limited. *See*—
Cecil, Don R.; and Evans, Richard P., 4,713,857, Cl. 15-97.00R.

Pacesetter Infusion, Ltd.: *See*—
Cable, Vaughn P.; Nason, Clyde K.; and Culp, Gordon W., 4,685,903, Cl. 604-154.000.
McIntyre, John; and Gorton, Lanny A., 4,646,781, Cl. 137-512.400.
Nason, Clyde K.; and Culp, Gordon W., 4,678,408, Cl. 417-410.000.
Pelmulder, John P.; Gorton, Lanny A.; Guleserian, Armen J.; and Livingston, John H., 4,712,583, Cl. 137-852.000.

Pacetti, Larry D.: *See*—
Boston, John T.; and Pacetti, Larry D., 4,656,418, Cl. 324-127.000.

Pacey, Gilbert E.; and Sasaki, Ken-ichi, to President and Trustees of the Miami University, The. Chromogenic aza-12-crown-4 ethers and method of using same for the detection of lithium. 4,659,815, 4-21-87, Cl. 540-467.000.

Pacey, Gilbert E.; and Bubnis, Bernard P., to President and Trustees of the Miami University, The. Method of detecting potassium ions using trifluoromethyl-substituted chromogenic crown ethers. 4,711,853, 12-8-87, Cl. 436-74.000.

Pacey, Grant K.: *See*—
Lukas, Helmut H.; and Pacey, Grant K., 4,687,287, Cl. 350-96.200.
Lukas, Helmut H.; and Pacey, Grant K., 4,712,861, Cl. 350-96.210.

Pachaly, Bernd: *See*—
Frey, Volker; Pachaly, Bernd; and Zeller, Norbert, 4,667,046, Cl. 556-430.000.

Pacheco-Pifano, Oscar, to Opako, S.A. Mold apparatus for vertical elements of concrete. 4,650,150, 3-17-87, Cl. 249-19.000.

Pachlatko, Johannes P.: *See*—
Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gotzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene ; Pachlatko, Johannes P.; Rempfler, Hermann; Schurter, Rolf; and Szczepanski, Henry, 4,715,883, Cl. 71-90.000.

Pacholke, Paula J. Solid lubricant additive for gear oils. 4,715,972, 12-29-87, Cl. 252-25.000.

Pacholok, David. High efficiency high voltage power supply for gas discharge devices. 4,698,741, 10-6-87, Cl. 363-131.000.

Pachonik, Horst: *See*—
Beil, Gerhard; Pichler, Alfred; Pachonik, Horst; and Plehnert, Kurt, 4,693,780, Cl. 156-643.000.

Pachow, Ulrich: *See*—
Meyer, Adolf; Steinegger, Helmut; Pachow, Ulrich; and Pfeifer, Manfred, 4,655,982, Cl. 264-166.000.

Pacht, Amos, to Butterworth Jetting Systems, Inc. High pressure fluid delivery system. 4,690,325, 9-1-87, Cl. 239-124.000.

Pachuta, Martin, to Jervis B. Webb Company. Bearing assembly with full contact seal. 4,687,349, 8-18-87, Cl. 384-477.000.

Pacific Bell: *See*—
Carse, Gregg D., 4,706,241, Cl. 370-60.000.
Carse, Gregg D.; and Daines, Bernard N., 4,716,562, Cl. 370-110.100.
Schembri, John J., 4,673,246, Cl. 350-96.220.
Schembri, John J., 4,696,063, Cl. 455-612.000.

Pacific Communications, Inc.: *See*—
Reinhard, Clyde J.; and Fowler, Keith A., 4,658,831, Cl. 128-697.000.

Pacific Electricord Company: *See*—
Carmo, Robert A., 4,664,463, Cl. 339-75.00P.

Pacific Kenyon Corp.: *See*—
Sawhill, J. Wallace, 4,643,908, Cl. 426-630.000.

Pacific Machinery & Engineering Co., Ltd.: *See*—
Fukazawa, Tetsuo; and Yokoyama, Shigeyoshi, 4,676,714, Cl. 415-72.000.
Fukazawa, Tetsuo; and Yokoyama, Shigeyoshi, 4,708,585, Cl. 415-72.000.

Pacific Marina Developments Pty. Ltd.: *See*—
McKay, Robert J., 4,693,631, Cl. 405-26.000.

Pacific Micro Minerals, Inc.: *See*—
Marihart, John R., 4,698,090, Cl. 71-24.000.

Pacific Proteins Limited. *See*—
Taylor, Andrew W., 4,668,185, Cl. 432-105.000.

Pacific Scientific Company: *See*—
Larsen, Richard R., 4,710,050, Cl. 403-51.000.
Mastromatteo, Robert, 4,713,570, Cl. 310-154.000.
Yang, Elmer C., 4,646,884, Cl. 188-322.210.
Yang, Elmer C., 4,702,353, Cl. 188-135.000.

Pacific Textiles, Inc.: *See*—
Little, Donald E., 4,675,228, Cl. 428-215.000.

Pacific Western Systems, Inc.: *See*—
Worsham, Daniel A., 4,661,033, Cl. 414-405.000.

Pacific Wietz GmbH & Co. KG.: *See*—
Heinrich, Juerger; Krauth, Axel; Victor, Karl-Heinz; and Peeken, Heinz, 4,714,257, Cl. 277-1.000.

Pacifici, Joseph A., to West Point Pepperell, Inc. Device for applying foam to textiles. 4,667,882, 5-26-87, Cl. 239-455.000.

Paciho, Victor C. Pizza dough spreading apparatus. 4,690,043, 9-1-87, Cl. 99-353.000.

Pacini, Ermanno. Truncated-cone roller with abrasive surface for smoothing tool with radial truncated-cone roller. 4,635,407, 1-13-87, Cl. 51-206.00R.

Paciorek, Kazimiera J. L.; Kratzer, Reinhold H.; Harris, David H.; and Krone-Schmidt, Wilfried, to Ultrasystems Defense and Space, Inc. Boron nitride polymeric precursors. 4,707,556, 11-17-87, Cl. 556-403.000.

Pacsorek, Walter J., to Minnesota Mining and Manufacturing Company. Cap having a liner with embossed indicia. 4,650,082, 3-17-87, Cl. 215-230.000.

Pack-All, Inc.: *See*—
Kessler, Sheldon; and Strubulis, Vasilios, 4,697,401, Cl. 53-459.00.

Pack, Jerry W.: *See*—
Bouldin, Floyd E.; Bouldin, Lloyd; Bouldin, Dwight; and Pack, Jerry W., 4,697,623, Cl. 141-80.000.

Pack, Michael L.: *See*—
Dunn, Kinson H.; Pack, Michael L.; and Holzhausen, Sonja R., 4,664,684, Cl. 55-498.000.

Pack, Roger N.: *See*—
Ahmad, Eddress; and Pack, Roger N., 4,677,769, Cl. 36-117.00.

Package Control Limited: *See*—
Dickson-Wright, Edward A.; and Lacey, Derick A., 4,684,311, Cl. 414-535.000.

Package Machinery Company: *See*—
Demes, Alvin J.; and Demes, Donald E., 4,660,352, Cl. 53-438.00.
Hills, James B., 4,674,259, Cl. 53-202.000.
Mosher, Oren A.; and Mosher, Oren G., 4,657,094, Cl. 177-50.00.
Mosher, Oren A., 4,678,046, Cl. 177-1.000.
Mosher, Oren A.; Stone, Edward P.; and Mosher, Oren G., 4,688,654, Cl. 177-25.000.

Packaging Automation Machinery Co. Ltd.: *See*—
Lipes, Arnold; and Suga, George, 4,706,298, Cl. 383-71.000.

Packaging Corporation International: *See*—
Chiodo, Daniel J.; and Maggio, Joseph, 4,658,821, Cl. 128-314.00.

Packaging Corporation of America: *See*—
Bixler, Kenneth D., 4,715,529, Cl. 229-2.50R.
Nederveld, Terrill L., 4,645,122, Cl. 229-45.00R.

Packaging Industries Group, Inc.: *See*—
Foster, John K., 4,648,641, Cl. 292-264.000.
Foster, John K., 4,662,851, Cl. 441-129.000.

Packaging Resources Inc.: *See*—
Wombold, Harry A. E., 4,702,387, Cl. 220-270.000.

Packaging Systems International, Inc.: *See*—
Danforth, Ronald V.; and Pleau, Medric H., 4,691,500, Cl. 53-478.000.

Packard, Brian M.; Parins, David J.; and Rydell, Mark A., to Angiomedics Incorporated. Angioplasty catheter assembly. 4,646,742, 3-3-87, Cl. 128-344.000.

Packard, Douglas T.; and Schmitt, Donald E., to United States of America, National Aeronautics and Space Administration. Brushless DC motor control system responsive to control signals generated by a computer or the like. 4,692,674, 9-8-87, Cl. 318-254.000.

Packard Instrument B.V.: *See*—
Boeren, Edward G.; and van Henegouwen, Richard B., 4,652,280, Cl. 55-67.000.

Packard Instrument Company, Inc.: *See*—
Valenta, Robert J., 4,651,006, Cl. 250-362.000.

Packard, Richard F.; and Cover, Kenneth R., to Joerns Healthcare, Inc. Bedside control module for healthcare stations and the like. 4,680,790, 7-14-87, Cl. 379-432.000.

Packard, Roger E.; and Thomas, Jacob E., to NCR Corporation. Cordless electronic thermometer. 4,642,785, 2-10-87, Cl. 364-557.000.

Pactole S.A.: *See*—
Gueneau, Michel, 4,653,282, Cl. 62-79.000.

Pacyna, David A.: *See*—
Minard, Paul G.; Alba, James; and Pacyna, David A., 4,714,054, Cl. 122-483.000.

Padalino, Marco; Bolema, Stephen J.; and Culpepper, Mark A., to Ricoh Company, Ltd.; and Ricoh Systems, Inc. Stimulator for inkjet printer. 4,668,964, 5-26-87, Cl. 346-75.000.

Padalino, Marco, to Ricoh Co., Ltd.; and Ricoh Systems, Inc. Inkjet printing system. 4,695,848, 9-22-87, Cl. 346-1.100.

Padar, Steve: *See*—
Schwab, Egon; and Padar, Steve, 4,710,168, Cl. 604-99.000.

Padarev, Nikolay K.; and Simpson, Dennis W., to Universal Hydraulics, Inc. Telescopic rotary refueling system for battle tank. 4,646,794, 3-3-87, Cl. 141-1.000.

Padden, Timothy J.: *See*—
Erdman, Constance E.; and Padden, Timothy J., 4,716,037, Cl. 424-70.000.

Paddock, Albert W., to United States of America, Army. Latch connector. 4,681,387, 7-21-87, Cl. 439-347.000.

Paddock, Gordon R., to General Motors Corporation. Air control valve assembly. 4,699,176, 10-13-87, Cl. 137-885.000.

Paddock, Gordon R.: *See*—
Covert, Charles H.; Gifford, William E.; Kemler, Craig G.; and Paddock, Gordon R., 4,714,485, Cl. 55-189.000.

Paddock, John C.: *See*—
Diederich, David J.; and Paddock, John C., 4,711,429, Cl. 266-44.000.

Paddock, Stephen W., to Whirlpool Corporation. Wiring for refrigeration apparatus. 4,715,831, 12-29-87, Cl. 439-709.000.

Paddock, Stephen W.: *See*—
Tate, Ralph, Jr.; and Paddock, Stephen W., 4,649,717, Cl. 62-340.000.
Tate, Ralph, Jr.; and Paddock, Stephen W., 4,665,708, Cl. 62-66.000.

, Bernard. *See*—
Bodouard, Michel; Durame, Claude; and Pade, Bernard, 4,673,085, Cl. 206-459.000.
elford, James; *See*—
Howe, Blair E., 4,645,397, Cl. 411-431.000.
Field, Barbara J.; and Spector, George. Comfort pad. 4,706,302, 1-17-87, Cl. 2-22.000.
get, John C.; and Forrester, James T., deceased (by Forrester, ary, executor), to Imperial Chemical Industries plc. Recovering lorinated polymers from solution. 4,686,278, 8-11-87, Cl. 8-495.000.
gett, Bobby R. Fishhook and lure retrieving device. 4,712,324, 15-87, Cl. 43-17.200.
gett, Lonnie W., to Kimberly-Clark Corporation. Combination rilization and infectious waste disposal container. 4,644,586, 7-87, Cl. 383-102.000.
gett, Lonnie W., Jr.; and Davis, Charles L., to Kimberly-Clark rporation. Method for packing flexible, flat packages into a carton. 00,841, 10-20-87, Cl. 206-499.000.
gett, Richard A., to GTE Communication Systems Corporation. ree-port conference circuit for use in a digital telephone system. 77,610, 6-30-87, Cl. 370-62.000.
gett, Robert S. *See*—
Glenn, Raymond R.; Powshok, Andrew T.; Padgett, Robert S.; Uriarte, Pedro; Cain, Joseph B.; and Thaker, Gautam H., 4,707,832, Cl. 370-124.000.
la, Antonio A. *See*—
shworth, Robert A.; Rodriguez, Larry A.; Padilla, Antonio A.; Spatz, Ned B.; Berry, W. Wes; and Schmeda, Rae A., 4,652,433, Cl. 423-112.000.
a, Felipe N. *See*—
Chiang, Peter K.; Richard, Michelle M.; Padilla, Felipe N.; Carroll, Frank I.; and Abraham, Philip, 4,713,391, Cl. 514-412.000.
a, Isaac F., Sr. Gas dehydrator with gas recovery system. 74,446, 6-23-87, Cl. 122-33.000.
a, Rigoberto. Ambulatory brace assembly. 4,641,639, 2-10-87, Cl. 33.950.
y & Venables Limited. *See*—
Clemmow, Raymond J.; Radford, Leonard; and Thorpe, John D., 4,650,253, Cl. 299-81.000.
adford, Leonard, 4,664,450, Cl. 299-81.000.
an, Giovanni. *See*—
eghetto, Leonardo; and Padovan, Giovanni, 4,687,062, Cl. 166-366.000.
ani, Pietro, to I.S.A.P. S.p.A. (Industrie Specializzate Articoli nici). Container, obtained from synthetic thermoplastics sheet erial, which is particularly suitable for eggs. 4,650,076, 3-17-87, 206-526.000.
ani, Pietro, to Industrie Specializzate Articoli Plastici SpA. er for egg tray to be shrink wrapped. 4,688,714, 8-25-87, Cl. 2.5EC.
n, Wolfgang; Witte, Josef; Suling, Carlhans; and Guonsens, John, gfa Gevaert Aktiengesellschaft. Electrostatographic suspension eloper having a block copolymer containing aromatic vinyl pounds and dienes reacted with mercaptan. 4,665,011, 5-12-87, 430-114.000.
, Giorgio. *See*—
ieri, Ugo; Baroffio, Romano; Ghisu, Giuseppe; Ciuellini, Enzo; Padula, Giorgio; and Fonzi, Giorgio, 4,650,409, Cl. 425-82.100.
, Michael A. Process for producing a stable, non-frozen, struc- d potato product. 4,663,180, 5-5-87, Cl. 426-637.000.
, Allen R. *See*—
engood, Richard E.; Padwa, Allen R.; and Harris, Alva F., 4,713,415, Cl. 525-66.000.
, Ralf. *See*—
rgmann, Franz-Josef; Hockenberger, Lothar; Endruschcit, Pe- r; and Paehler, Ralf, 4,689,395, Cl. 528-374.000.
o-Chul. *See*—
use, John T.; Kurkjian, Charles R.; and Paek, Un-Chul, 4,713,105, Cl. 65-4.100.
k, Jochen; Herlemann, Werner; Sweigart, Gerhard; Jardin, and Lutz, Alfons, to Webasto-Werk W. Baier GmbH & Co.; imler-Benz Aktiengesellschaft. Sliding and lifting vehicle roof a sliding canopy provided with flexible screens. 4,702,518, 87, Cl. 296-217.000.
, Jochen; Herlemann, Werner; and Schaetzler, Walter, to sto-Werk W. Baier GmbH & Co.; and Daimler-Benz Aktien- schaft. Sliding and lifting roof. 4,709,959, 12-1-87, Cl. 7.000.
alvolio L. *See*—
rnn, Graham N.; Paes, Malvolio L.; Conacher, Ian D.; Gu- dge, John R.; and Snellgrove, Timothy R., 4,648,386, Cl. 8.4.000.
, Arnold; Streissle, Gert; Plempel, Manfred; Buchel, Karl H.; Hans-Ludwig; Holmwood, Graham; Kraatz, Udo; and Regel, to Bayer Aktiengesellschaft. Antiviral agent. 4,668,660, 7, Cl. 514-383.000.
, Arnold. *See*—
choff, Oswald; Kruger, Bernd-Wieland; Stadler, Peter; Paess- , Arnold; Streissle, Gert; Taylor, Peter; Zeiler, Hans-Joachim; & Metzger, Karl-Georg, 4,686,208, Cl. 514-42.000.
hristian; and Wedemeyer, Karlfried, to Bayer Aktiengesell- Preparation of 2,4-dichloro-3-alkyl-6-nitrophenols. 4,670,608, Cl. 568-709.000.
Paetz, Klaus-Christian. *See*—
Dicke, Hans-Rudolf; Bottenbruch, Ludwig; Wedemeyer, Karl-fried; Paetz, Klaus-Christian; and El Sayed, Aziz, 4,701,515, Cl. 528-176.000.
Eckhardt, Volker; Dicke, Hans-Rudolf; Paetz, Klaus-Christian; and El Sayed, Aziz, 4,667,011, Cl. 528-128.000.
Paetzel, Herbert K.; Lindackers, Rudolf; and Grutesen, Lothar H. M., to Dresser Industries, Inc. Control organ for gaseous and liquid media. 4,671,321, 6-9-87, Cl. 137-625.300.
Paetzel, Herbert K., to Masoneilan International, Inc. Low-noise control valve. 4,693,450, 9-15-87, Cl. 251-121.000.
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Pakshtas, Mechislav-Valentinas K.: *See*—
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Paliwal, Muktesh; and Johnson, Walter A., to GTE Products Corporation. Metal matrix composite powders and process for producing same. 4,687,511, 8-18-87, Cl. 75-0.50B.
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Palkin, Leonid N.: *See—*
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Pall Corporation: *See—*
Adiletta, Joseph G., 4,671,979, Cl. 428-74.000.
Degen, Peter J.; and Gsell, Thomas C., 4,664,683, Cl. 55-387.000.
Degen, Peter J.; and Gsell, Thomas C., 4,665,050, Cl. 502-402.000.
Degen, Peter J.; Martin, Jerold; Schriefer, Judy; and Shirley, Brenda, 4,693,985, Cl. 436-531.000.
Degen, Peter J.; Joffee, Irving B.; and Gsell, Thomas C., 4,702,840, Cl. 210-638.000.
Degen, Peter J.; Joffee, Irving B.; and Gsell, Thomas C., 4,707,266, Cl. 210-638.000.
Foss, Warren M., 4,693,928, Cl. 428-236.000.
Hurley, John L.; Puzo, Joseph D.; and Tingey, Rosa F., 4,716,074, Cl. 428-220.000.
Kauke, Heinz, 4,701,861, Cl. 364-502.000.
Matkovich, Vlado I.; and Rosenberg, David J., 4,662,906, Cl. 55-159.000.
Miller, John D.; Koslow, Evan E.; and Williamson, Kenneth M., 4,676,807, Cl. 55-97.000.
Miller, John D.; and Verrando, Marcel G., 4,687,573, Cl. 210-143.000.
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Palladino, Michael, to Sloan-Kettering Institute for Cancer Research. Interleukin-2 dependent cytotoxic T-cell clones. 4,683,199, 7-28-87, Cl. 435-68.000.
Palladino, Michael A., to Genentech, Inc. Chemotactic assay for immunogenicity. 4,714,674, 12-22-87, Cl. 435-18.000.
Pallanch, Francis T., to VILTER Manufacturing, Inc. Defrost apparatus for refrigeration system and method of operating same. 4,660,384, 4-28-87, Cl. 62-81.000.
Pallat, Jerome F.: *See*—
Shuster, Nicholas; and Pallat, Jerome F., 4,675,254, Cl. 429-51.000.
Pallet Master, Inc.: *See*—
Davidson, Delma; and Waechter, Thomas R., 4,702,137, Cl. 83-718.000.
Pallet Truck Scale Corporation: *See*—
Raz, Matti, 4,666,004, Cl. 177-139.000.
Palley, Igor: *See*—
Harpell, Gary A.; Palley, Igor; Kavesh, Sheldon; and Prevorsek, Dusan C., 4,650,710, Cl. 428-263.000.
Harpell, Gary A.; Palley, Igor; and Prevorsek, Dusan C., 4,681,792, Cl. 428-102.000.
Pallez, Francois: *See*—
Maurel, Pierre; Lamerant, Jean-Michel; and Pallez, Francois, 4,634,579, Cl. 423-17.000.
Pallhorn, Sebald: *See*—
Radtke, Wolfgang; Borbely, Gyorgy; Pallhorn, Sebald; and Hollfritsch, Erich, 4,637,184, Cl. 52-220.000.
Pallini, Joseph W., Jr.; and Milberger, Lionel J., to Vetco Gray Inc. Non-clocking connector with locking anti-rotation tabs. 4,711,471, 12-8-87, Cl. 285-81.000.
Pallmer, Michael: *See*—
Paske, Richard, Jr.; Pallmer, Michael; and King, William L., Jr., 4,707,297, Cl. 252-301.160.
Pallmeyer, Henry L., to Grumman Aerospace Corporation. Continuous seam-forming device. 4,660,265, 4-28-87, Cl. 29-243.500.
Palloch, Herbert; and Erndt, Hans, to Frankl & Kirchner GmbH & Co KG. Belt guard. 4,648,855, 3-10-87, Cl. 474-144.000.
Palloch, Herbert; and Erndt, Hans, to Frankl & Kirchner GmbH & Co KG. Multiple rotary drive system for a textile-working machine. 4,687,461, 8-18-87, Cl. 474-148.000.
Palloch, Herbert: *See*—
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Pallos, Ferenc M.; Brokke, Mervin E.; and Arneklev, Duane R., to Stauffer Chemical Co. Herbicide compositions. 4,708,735, 11-24-87, Cl. 71-118.000.
Pallos, Laszlo: *See*—
Berenyi nee Poldermann, Edit; Varga, Laszlo; Pallos, Laszlo; Petocz, Lujza; Ladanyi, Laszlo; Tompe, Peter; Hartai nee Zsorzs, Eva; and Kovacs nee Palotai, Agnes, 4,652,562, Cl. 514-237.000.
Messmer, Andras; Batori, Sandor; Hajos, Gyorgy; Benko, Pal; Pallos, Laszlo; Petocz, Lujza; Grasser, Katalin; and Kosoczky, Ibolya, 4,697,013, Cl. 544-183.000.
Palm Beach Medical Engineering, Inc.: *See*—
Patipa, Michael; McMillan, Thomas A.; and Mitchell, Henry W., 4,644,952, Cl. 128-305.000.
Palm, Bernhard, to Milwaukee Electric Tool Corporation. Magnetic base for portable tools. 4,639,170, 1-27-87, Cl. 408-76.000.
Palm, Bernhard, to Milwaukee Electric Tool Corporation. Cutting tool coolant dispensing. 4,664,565, 5-12-87, Cl. 408-6.000.
Palm, Bernhard, to Milwaukee Electric Tool Corporation. Slug retainer. 4,676,701, 6-30-87, Cl. 408-67.000.
Palm, Bernhard, to Milwaukee Electric Tool Corporation. Keyless impacting chuck. 4,682,918, 7-28-87, Cl. 408-241.00R.
Palm, Bernhard, to Milwaukee Electric Tool Corporation. Portable hole cutting power tool. 4,687,385, 8-18-87, Cl. 408-76.000.
Palm, Bernhard, to Milwaukee Electric Tool Corporation. Quick change tool retainer. 4,688,975, 8-25-87, Cl. 409-232.000.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., to Coloroics Corporation. Print engine for color electrophotography. 4,652,115, 3-24-87, Cl. 355-14.0TR.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., to Coloroics Corporation. Improved print quality monitoring for color electrophotography. 4,697,920, 10-6-87, Cl. 355-14.0CH.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., to Coloroics Corporation. Toner modules for electrophotographic print engine. 4,699,079, 10-13-87, Cl. 118-658.000.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., to Coloroics Corporation. Print engine for color electrophotography. 4,705,385, 11-10-87, Cl. 355-4.000.
Palm, George R. Line storage container. 4,702,035, 10-27-87, Cl. 43-57.100.
Palm, Hans-Gunther, to Madaus & Co. Pneumatic mixing apparatus for bulk materials and filter apparatus therefor. 4,655,603, 4-7-87, Cl. 366-107.000.
Palm, John W., to Amoco Corporation. Process and apparatus for recovery of sulfur from ammonia containing acid gas streams. 4,643,888, 2-17-87, Cl. 423-574.00R.
Palm, Volker; and Pfuhl, Berthold, to Robert Bosch GmbH. Device for regulating pressure and delivery of and adjustable pump. 4,708,594, 11-24-87, Cl. 417-218.000.
Palma, Beverly. Combination puzzle, box and hangable puzzle frame. 4,687,202, 8-18-87, Cl. 273-157.00R.
Palma, Gary E.: *See*—
Sziklas, Edward A.; and Palma, Gary E., 4,682,339, Cl. 372-95.000.
Palmaer, Karl V.; and Park, David B. Conveying system of the type in which plastic carriers are mounted on plastic links of a conveyor chain. 4,640,410, 2-3-87, Cl. 198-803.010.
Palmaer, Leif. Method of and means for holding a securing member in an existing attachment slit. 4,639,950, 2-3-87, Cl. 2-422.000.
Palmans, Jean: *See*—
Polard, Victor; Palmans, Jean; DuBois, Michel; and Weymeersch, A., 4,670,354, Cl. 428-621.000.
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Palmateer, Paul H.: *See*—
Ainslie, Norman G.; Harvilchuck, Joseph M.; Interrante, Mario J.; King, William J., Jr.; Palmateer, Paul H.; and Sullivan, John F., 4,634,638, Cl. 428-671.000.
Palmberg, Paul W., to Perkin-Elmer Corporation, The. Apparatus and method for reducing topographical effects in an auger image. 4,638,446, 1-20-87, Cl. 364-555.000.
Palmer, Ansell W.: *See*—
Losapio, Peter F.; Germer, Warren R.; Ouellette, Maurice J.; and Palmer, Ansell W., 4,713,609, Cl. 324-156.000.
Palmer, Bertram J., to BRD Company Limited. Assembly of composite shaft and yoke member of a Hookes universal joint. 4,681,559, 7-21-87, Cl. 464-181.000.
Palmer, Charles D., to Texas Instruments Incorporated. GaAs monolithic medium power amplifier. 4,646,028, 2-24-87, Cl. 330-277.000.
Palmer-Chenard Industries, Inc.: *See*—
Day, Charles L., 4,659,304, Cl. 425-406.000.
Palmer, Clarence K., to PNC, Inc. Method of making sealed housing containing delicate structures. 4,701,999, 10-27-87, Cl. 437-211.000.
Palmer, Darrel, to Ballard Medical Products. Aspirating/ventilating apparatus and method. 4,638,539, 1-27-87, Cl. 29-157.00R.
Palmer, Darrel, to Ballard Medical Products. Aspirating/ventilating apparatus. 4,696,296, 9-29-87, Cl. 128-207.160.
Palmer, Darrel R.: *See*—
Ford, George W., Jr.; and Palmer, Darrel R., 4,640,440, Cl. 222-190.000.
Palmer, David A.: *See*—
DeKlotz, Joseph E.; Manuel, Thomas E.; and Palmer, David A., 4,648,028, Cl. 364-188.000.
Walker, Robert H.; Palmer, David A.; Salvatore, Donna M.; and Bernier, Edward J., 4,670,473, Cl. 518-706.000.
Palmer, David H.: *See*—
Wing, Russell T.; and Palmer, David H., 4,646,913, Cl. 206-37.200.
Palmer, Derek R.: *See*—
Ballenegger, Marc E.; Rimbault, Christian G.; Albert, Alban L.; Weith, Andre J.; Courbat, Pierre; Tyson, Robert G.; Palmer, Derek R.; and Thompson, David G., 4,644,011, Cl. 514-456.000.
Palmer, Donald J., to Hewlett-Packard Company. Process for preparing ink compositions for ink-jets printers. 4,685,968, 8-11-87, Cl. 106-23.000.
Palmer, Emery A.; Shimanski, Michael A.; Ellison, Thomas M.; and Everidge, Jack P., to Rexham Corporation. Premasked decal. 4,678,690, 7-7-87, Cl. 428-31.000.
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Palmer, Eric, to Glasdon Limited. Waste bin having fire preventing lid. 4,643,324, 2-17-87, Cl. 220-88.00R.
Palmer, Forrest M. Two-drum, two-layer continuous meld-casting method. 4,691,758, 9-8-87, Cl. 164-461.000.
Palmer, Gary E.; and Todd, Mike J., to Hako Minuteman, Inc. High speed floor burnisher. 4,701,976, 10-27-87, Cl. 15-385.000.
Palmer, Gary E., to Hako Minuteman, Inc. Brake drum encapsulator. 4,712,270, 12-15-87, Cl. 15-345.000.
Palmer, Gary E.: *See*—
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r, Jerry D.; Janus, Robert J.; and Lambert, Larry D., to ITT poration. Volume control device for ringer. 4,646,064, 2-24-87, 340-392.000.

r, John: *See*—

ughes, John L.; and Palmer, John, 4,687,918, Cl. 250-205.000.

r, John L.; and Anilionis, Algis, to Repligen Corporation. Hybrid teins produced by an ultrahigh prokaryotic expression system. 91,009, 9-1-87, Cl. 530-350.000.

r, John M., to Pilkington P.E. Limited. Catadioptric infrared ses. 4,714,307, 12-22-87, Cl. 350-1.300.

r, John M.: *See*—

oorhis, Roger; Erbs, Daryl G.; Palmer, John M.; and Marris, Derrick A., 4,709,560, Cl. 62-508.000.

r, Kenneth L., to General Mills, Inc. Fruit products containing ed grains. 4,681,770, 7-21-87, Cl. 426-615.000.

r, Lennart. Device for exchangeable attachment of tools on an ustrial robot. 4,635,328, 1-13-87, Cl. 29-26.00A.

r, Malcolm G. Signalling device. 4,633,969, 1-6-87, Cl. 1-118.000.

r, Malcolm G., to Compact Energy Limited. Demolition device d method of preparing same. 4,635,554, 1-13-87, Cl. 102-416.000.

r, Marvin K., to Caterpillar Inc. Mounting apparatus for a grapple ad assembly. 4,715,641, 12-29-87, Cl. 294-119.400.

r, Nancy P.: *See*—

Ciocarelli, Mary E.; and Palmer, Nancy P., 4,676,446, Cl. 242-55.530.

r, Neil R.: *See*—

Dvorak, Robert F.; Netolicky, Charles E.; and Palmer, Neil R., 4,681,061, Cl. 116-279.000.

r, Nigel I.: *See*—

Lundquist, Joseph T.; Lundsager, Christian B.; Palmer, Nigel I.; and Hoult, Jr., Howard J., 4,650,730, Cl. 429-62.000.

r, Raymond L., to Helical Springs Limited of Lytham Ind. Est. k. Opposed endless belt grinding apparatus. 4,676,029, 6-30-87, Cl. 140.000.

r, Richard J.; Banham, Raymond; and Woodcock, Colin, to lobal Golf Incorporated. Compact portable golf club set and carry- g bag. 4,664,382, 5-12-87, Cl. 273-77.00A.

r, Robert S.: *See*—

Grain, John; Riggs, Allan J.; and Palmer, Robert S., 4,712,973, Cl. 414-744.00A.

r, Robert W., to Brantjen & Kluge, Inc. Vacuum flow sensor. 663,741, 3-31-87, Cl. 271-90.000.

r, Ronald. Coaches folder. 4,676,527, 6-30-87, Cl. 281-31.000.

r, Roy A., Jr.; Scoggins, David H.; and Owen, Thomas N. Elec- nic access control system. 4,700,296, 10-13-87, Cl. 364-401.000.

r, Thomas M., to Innovative Research and Development Co. ain link fence system. 4,690,384, 9-1-87, Cl. 256-47.000.

r, William B.; and Fink, Henry, to TRW Inc. Releasable coupling sembly. 4,682,804, 7-28-87, Cl. 294-82.260.

ere, George D. Swimming pool liner and tile border receptor. 706,308, 11-17-87, Cl. 4-496.000.

ieri, Joseph. Paint applicator and paint wiping apparatus. 4,674,144, 23-87, Cl. 15-210.00R.

iero, Albert; and Hansen, Charles, to Tri-tech, Inc. Low profile lectric motor. 4,714,853, 12-22-87, Cl. 310-257.000.

iers, Goran. Device in hydraulically driven machines. 4,707,988, 1-24-87, Cl. 60-413.000.

ier, Rene G.; Perrier, Pierre P.; and Phounsombath, Sing K., to quipements Automobiles Marchal. Electromagnetic actuator com- rising at least two distinct magnetic circuits. 4,686,501, 8-11-87, Cl. 35-256.000.

nieri, Joseph M.: *See*—

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Hampton, Thomas G.; Mitsch, James M.; Palmieri, Joseph M.; Parker, David S.; and DeRosier, Donna C., 4,706,054, Cl. 335-203.000.

min, Simyon; and Hewson, Brian, to Design Components, Incorpo- ated. Amplifier system for D.C. motor. 4,703,238, 10-27-87, Cl. 18-563.000.

min, Simyon; and Shlain, Vladimir, to Design Components Incorpo- ated. Method and apparatus for controlling a stepper motor with a rogrammable parabolic velocity profile. 4,714,867, 12-22-87, Cl. 18-696.000.

min, Simyon: *See*—

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Pellegrino, John; and Palmin, Simyon, 4,682,092, Cl. 318-696.000.

minteri, Craig R., to Zenith Electronics Corporation. Vertical inter- al data blanker. 4,691,354, 9-1-87, Cl. 380-15.000.

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mquist, Donald L.; and Jenkins, Thomas C., to Ohio Agricultural Research and Development Center, The. Process for feeding rumi- ant animals and composition for use therein. 4,642,317, 2-10-87, Cl. 14-558.000.

mquist, Martti J. Hydroplaning wing sailing craft. 4,635,577, 1-13-87, Cl. 114-39.000.

mquist, Steven R.; Takita, Kentaro; and Hasegawa, Kazumi, to Tektronix, Inc. Skew detector. 4,646,297, 2-24-87, Cl. 371-1.000.

mqvist, Lars I.; and Svensson, Bolennart A., to Kabeldon Ak- ebolag. Pliable sleeve which is turned inside out and lubricated ehen fitted on a core and method of installing same. 4,685,189, 8-11-87, Cl. 29-450.000.

Paloma Kogyo Kabushiki Kaisha: *See*—

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McCausland, Calvin W.; and Palombo, Louis A., 4,6 0,144, Cl. 210-244.000.

Palomo-Coll, Alberto; Cabre-Castellvi, Juan; and Palomo-Coll, Antonio L., to Gema, S.A. Salts of amino-beta-lactamic acids and process for the preparation thereof. 4,659,814, 4-21-87, Cl. 540-355.000.

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Palosi, Eva: *See*—

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Bernath, Gabor; Kobor, Jene; Fulop, Ferenc; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,656,179, Cl. 514-307.000.

Bernath, Gabor; Kobor, Jeno; Fulop, Ferenc; Perjesi, Pal; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,668,688, Cl. 514-307.000.

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Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.

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Czeiler, Andras; Lukacs, Sandor; Palotai, Tamas; Lakatos, Tibor; and Bakdos, Gyorgy, 4,689,172, Cl. 252-301.360.

Palotas, Laszlo: *See*—

Czvikovszky, Tibor; Kovacs, Gabor; Lakner, Endre; Mahr, Lajos; Somogyi, Agnes; Mikes, Sandor; Kegly, Gyorgy; Muzsai, Istvan; Palotas, Laszlo; and Pfisztner, Nandor, 4,706,711, Cl. 138-103.000.

Pals, Jan A., and Klinkhamer, Arend J., to U.S. Philips Corporation. Method of manufacturing a semiconductor device. 4,686,759, 8-18-87, Cl. 437-51.000.

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Palsulich, William G., to Cobe Laboratories, Inc. Apparatus for supporting a fluid flow cassette. 4,676,467, 6-30-87, Cl. 248-221.300.

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Paltchin, Vassil A.: *See*—

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Palti, Yoram, to Fidelity Medical, Inc. Method and apparatus for the non-invasive monitoring of arterial blood pressure waves. 4,660,566, 4-28-87, Cl. 128-677.000.

Paltiel, Zvi, to Elscint Ltd. Magnetic resonance image zooming. 4,644,280, 2-17-87, Cl. 324-309.000.

Paltiel, Zvi; and Ban, Amir, to Elscint Ltd. Magnetic resonance imaging. 4,714,885, 12-22-87, Cl. 324-312.000.

Paltrier, Sylvain: *See*—

Fillot, Alain; Gallet, Jean; Paltrier, Sylvain; and Schaub, Bernard, 4,654,196, Cl. 420-525.000.

Paluch, Bernard R. Insert for heated humidifier used in respiratory therapy. 4,714,078, 12-22-87, Cl. 128-203.170.

Paludetto, Ferdinando, to Alfa Romeo Auto S.p.A. Door actuated safety belts. 4,655,476, 4-7-87, Cl. 280-804.000.

Palumbo, Angeline. Convertible garment. 4,697,288, 10-6-87, Cl. 2-269.00R.

Paly, Rene; and Svanda, Jacques. Method for the automatic grading and cutting of articles such as garment pieces. 4,677,564, 6-30-87, Cl. 364-468.000.

Pamco Label Co.: *See*—

Mack, Jory B., 4,690,720, Cl. 156-248.000.

Pamer, W. Richard; and Zils, James A., to Russell, Burdsall & Ward Corporation. Fastener attached to sheet metal. 4,708,556, 11-24-87, Cl. 411-179.000.

Pamer, Walter R.; Zils, James A.; and Nichols, William E., to Russell, Burdsall & Ward Corporation. Sealing cap tubular rivet head and assembly. 4,647,264, 3-3-87, Cl. 411-338.000.

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Panache Promotions (Proprietary) Limited: *See*—
Rubin, Richard H., 4,700,049, Cl. 219-370.000.

Panafacom Limited: *See*—
Iinuma, Hiroshi; Sakaguchi, Shuichi; and Suzuki, Takashi, 4,644,419, Cl. 360-46.000.
Ikeda, Kazuhiko; and Kawamura, Makoto, 4,701,846, Cl. 364-200.000.

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Helton, Charles J., III; and Panagiotou, George N., 4,703,404, Cl. 362-294.000.

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Panaram Alpine Corporation Inc.: *See*—
Arsenian, John J., 4,669,723, Cl. 272-97.000.

Panaro, Robert J., to Gould Inc. Electric fuse holder having an integral current sensor. 4,661,807, 4-28-87, Cl. 340-638.000.

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Navarro, Felipe, 4,687,312, Cl. 354-295.000.

Panayotatos, Nikos, to Biogen N.V. Vectors for increased expression of cloned genes. 4,716,112, 12-29-87, Cl. 435-68.000.

Panazzolo, Aldo, to Owens-Illinois Plastic Products Inc. Reinforced self-centering plastic carrier for bottles. 4,712,680, 12-15-87, Cl. 206-427.000.

PanCanadian Petroleum Limited: *See*—
Al-Saigh, Abbas, 4,642,223, Cl. 422-191.000.
Schramm, Laurier L., 4,637,417, Cl. 137-4.000.

Pancham, Nazreen, to Miles Laboratories, Inc. Process for producing a concentrate enriched in coagulation factors VII and VIIa. 4,637,932, 1-20-87, Cl. 424-101.000.

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Pancoast, Steven T.: *See*—
Grafe, Robert J.; and Pancoast, Steven T., 4,709,367, Cl. 371-38.000.

Pandak, Zoltan I.: *See*—
Wigner, Lauren R.; and Pandak, Zoltan I., 4,673,542, Cl. 264-46.700.

Pande, Gyan S.: *See*—
Gold, Jeffrey G.; Pande, Gyan S.; and Smith, Kevin, 4,636,346, Cl. 264-139.000.

Pandell, Nestor W., to Weathermate Marine Manufacturing, Inc. Method for punching holes in edge binding and the product produced thereby. 4,642,868, 2-17-87, Cl. 29-429.000.

Pandex Laboratories, Inc.: *See*—
Jolley, Michael E., 4,652,533, Cl. 436-518.000.
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Pandey, Sue D.; and Buss, Waldeen C., to Chevron Research Company. Sulfur tolerance of zeolitic reforming catalysts. 4,680,280, 7-14-87, Cl. 502-66.000.

Pandrol Limited: *See*—
Jones, Robert; Jones, Keith W.; and Baxter, William R. S., 4,694,690, Cl. 73-146.000.

Panduit Corp.: *See*—
Caveney, Jack E.; and Moody, Roy A., 4,688,302, Cl. 24-16.0PB.

Pane, Francis C., Jr.: *See*—
Matthews, John A.; Striebel, Edmund E.; Sepulveda, Domingo; and Pane, Francis C., Jr., 4,677,828, Cl. 60-751.000.

Panek, Edward J.; and Davis, Pauls, to BASF Corporation. Polyether modified with alpha olefin oxides. 4,649,224, 3-10-87, Cl. 568-624.00

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Panek, Karel J., to Mallinckrodt Diagnostica (Holland) B.V. Preparation and use of a ^{195m}Au-containing liquid. 4,643,891, 2-17-87, Cl. 424-1.100.

Panella, Richard J.; and Spector, George. All stars baseball. 4,653,75 3-31-87, Cl. 273-93.00R.

Panessidi, Joseph. Animal shelter. 4,696,260, 9-29-87, Cl. 119-19.000.

Paneth, Alter: *See*—
Nusbaum, Max; and Paneth, Alter, 4,675,506, Cl. 219-405.000.

Paneth, Eric; Critchlow, David N.; and Yehushua, Moshe, to International Mobile Machines Corp. Modem for RF subscriber telephone system. 4,644,561, 2-17-87, Cl. 375-9.000.

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Kopp, Reiner H.; and Panetz, Allen I., 4,696,187, Cl. 73-61.10C.

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Hadjiiski, Anatoli M.; Varbanov, Hristo P.; Mishonov, Michail T.; Stanoev, Vladimir P.; Savov, Rosen P.; Radenkov, Strahil K.; Panev, Vladimir B.; and Velev, Alexander S., 4,638,607, Cl. 52-79.900.

Pang, Peter K. T.; and Tenner, Thomas E., Jr., to Texas Tech University Health Sciences Center. Hypotensive active peptides. 4,687,84 8-18-87, Cl. 530-331.000.

Pang, Roy H. L., to Damon Biotech, Inc. Assay for interferon epsilon 4,675,282, 6-23-87, Cl. 435-5.000.

Pangborn Corporation: *See*—
Carpenter, James H.; Mullins, Ronald L.; and Smith, Ronald L. 4,680,899, Cl. 51-427.000.
Mangan, Jerry M., 4,646,483, Cl. 51-434.000.

Pangburn, William E., to Haefliger, William W., a part interest. Coated abrasive composite. 4,712,552, 12-15-87, Cl. 128-355.000.

Panhorst, Heinz-Juergen: *See*—
Schillinger, Hans; Pahlke, Klaus; Starke, Siegfried; Panhorst, Heinz-Juergen; and Mengel, Hans-Eckhard, 4,635,718, Cl. 175-398.000.

Panicker, Narayana N.: *See*—
Baugh, Benton F.; and Panicker, Narayana N., 4,647,254, Cl. 405-169.000.
Baugh, Benton F.; and Panicker, Narayana N., 4,661,016, Cl. 405-169.000.
Baugh, Benton F.; and Panicker, Narayana N., 4,673,313, Cl. 405-195.000.
Baugh, Benton F.; and Panicker, Narayana N., 4,693,498, Cl. 285-39.000.

Panizza, Ettore; and Prenaoli, Ercole, to Fiat Auto S.p.A. Anti-ski device for motor vehicles. 4,640,557, 2-3-87, Cl. 303-100.000.

Panizza, Ettore, to Fiat Auto S.p.A. System for communication as automatic signalling between a plurality of motor vehicles. 4,706,08 11-10-87, Cl. 340-902.000.

Pankey, Susan: *See*—
Collins, Christine G.; Pankey, Susan; and Jaklitsch, Ann, 4,652,529, Cl. 436-92.000.

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Pankopf, Bradford. Protective garment for water activities. 4,710,97 12-8-87, Cl. 2-2.10R.

Pankove, Jacques I.; and Wu, Chung P., to RCA Corporation. Silicon light emitting device and a method of making the device. 4,684,96 8-4-87, Cl. 357-17.000.

Pankow, Chester W. Supplemental air valve for internal combustion engine. 4,715,351, 12-29-87, Cl. 123-587.000.

Pankow, Wlodzimierz: *See*—
Niedbala, Marian; Rozegnal, Jerzy; and Pankow, Wlodzimierz, 4,665,784, Cl. 82-32.000.

Pankowski, Jacek: *See*—
Achmatowicz, Barbara; Daniewski, Andrzej R.; Marczak, Stanislaw; Pankowski, Jacek; and Wicha, Jerzy, 4,707,554, Cl. 549-214.000.

Pannell, Richard B.: *See*—
Kobylinski, Thaddeus P.; Kibby, Charles L.; Pannell, Richard B.; and Eddy, Elizabeth L., 4,670,414, Cl. 502-174.000.

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Gartside, Roger H., 4,693,322, Cl. 173-116.000.

Pannu, Jaswant S. Easily insertable intraocular lens. 4,666,444, 5-19-87 Cl. 623-6.000.

Pannwitz, Karl-Heinz, to Dragerwerk Aktiengesellscaft. Diffusor sample collector for gaseous media. 4,692,309, 9-8-87, Cl. 422-87.00

Panoch, Hans J.: *See*—
Mumcu, Salih; Panoch, Hans J.; and Rueter, Joern, 4,711,925, Cl. 524-417.000.

k, Richard L.: *See*—
rrest, Stephen R.; Lieberman, Robert A.; and Pancok, Richard L., 4,709,413, Cl. 455-606.000.
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rley, James R.; Panora, Robert A.; Searight, Edward F.; and Shukla, Kailash C., 4,668,390, Cl. 210-167.000.
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anov, Chavdar B.; Mondeshka, Donka M.; Berova, Nikolina D.; Rakovska, Rossitza S.; Panova, Yordanka T.; Markov, Marko T.; Ovcharov, Radi G.; Usunov, Petko D.; and Zabunova, Orhideya S., 4,678,853, Cl. 546-146.000.
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Donald E., to Elan Corporation P.L.C. Controlled absorption yldopa pharmaceutical formulation. 4,716,040, 12-29-87, Cl. 59.000.
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Hubert; and Schlegel, Wolfgang, to Siemens Aktiengesellschaft. running current supply for a monitor. 4,707,775, 11-17-87, Cl. 7.000.
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Roland: *See*—
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Claus: *See*—
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ler, Siegfried; Panzer, Siegfried; and Gaber, Klaus, 4,633,611, 47-1.300.
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h, Alfred; Beth, Dieter; Panzer, Werner; and Stempfle, Jo-m, 4,673,810, Cl. 250-231.05SE.
Carlino: *See*—
Robin M. F.; DeLuca, Robert D.; and Panzera, Carlino, 19,218, Cl. 433-8.000.
Rudolph; and Janz, Joachim, to Gebr. Happich GmbH. Sun r automotive vehicles. 4,655,498, 4-7-87, Cl. 296-97.00H.
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Paoletti, Luciano, to SPIDEM S.r.l. Emulsifier unit particularly for emulsifying steam and milk to prepare cappuccinos and the like beverages. 4,715,274, 12-29-87, Cl. 99-454.000.
Paoli, Thomas L.: *See*—
Burnham, Robert D.; Paoli, Thomas L.; Thornton, Robert L.; and Sprague, Robert A., 4,638,334, Cl. 346-108.000.
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Paolini, Francis R., to North American Philips Corporation. Detection arrangements for X-ray security systems. 4,644,578, 2-17-87, Cl. 378-146.000.
Paolo, Rumignani: *See*—
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Paolucci, Patrick. Leaf cutting attachment for rotary lawn mower. 4,665,683, 5-19-87, Cl. 56-16.900.
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Small, Leonard E.; Garrison, Paul H., Jr.; Winkler, William M.; Seaman, Sharon A.; and Papa, Alyce J., 4,673,525, Cl. 252-132.000.
Papadatos, Evangelos A. Chord selector for a stringed instrument. 4,665,789, 5-19-87, Cl. 84-317.000.
Papajewski, Gerd H.; and Rogner, Michael G., to Pfaff Industriemaschinen GmbH. Device for producing waistbands in garments. 4,699,302, 10-13-87, Cl. 223-38.000.
Papak, Viktor, to Josef Gartner & Co. Apparatus for conditioning and controlling the temperature of rooms in a building. 4,638,853, 1-27-87, Cl. 165-50.000.
Papamichalis, Panos E.: *See*—
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Papanide, Adrian I.: *See*—
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Lewis, Jack A.; Papavizas, George C.; and Connick, William J., Jr., 4,668,512, Cl. 424-93.000.
Papayanopulos, Manuel E.: *See*—
Garritano, Ronald F.; O'Connor, John J.; and Papayanopulos, Manuel E., 4,640,120, Cl. 73-12.000.
Pape, Frank-Friedrich: *See*—
Hoelderich, Wolfgang; Fischer, Rolf; Mross, Wolf D.; and Pape, Frank-Friedrich, 4,665,252, Cl. 585-431.000.
Pape, Fritz G.: *See*—
Oleff, Werner; and Pape, Fritz G., 4,639,046, Cl. 301-63.0PW.
Pape, Gebhard: *See*—
Brandenstein, Manfred; Klupfel, Norbert; Pape, Gebhard; Hans-Roland; and Schmiechen, Rolf, 4,679,458, Cl. 74-458.000.
Pape, Harald, to Deha Baubedarf GmbH & Co. KG. Apparatus for introducing transport anchors into a mold for concrete parts. 4,708,612, 11-24-87, Cl. 425-117.000.
Pape, Kenneth R. Golf bag insert. 4,691,823, 9-8-87, Cl. 206-315.600.
Pape, Werner, to Robert Bosch GmbH. Fuel injection pump. 4,677,951, 7-7-87, Cl. 123-357.000.
Papenfuhs, Theodor; and Schophoff, Friedrich, to Hoechst Aktiengesellschaft. Process for the preparation of 2,4-dinitrophenol alkoxyalkyl ethers. 4,686,301, 8-11-87, Cl. 549-427.000.
Papenfuhs, Theodor: *See*—
Arndt, Otto; and Papenfuhs, Theodor, 4,658,034, Cl. 548-217.000.
Paper Chemistry Laboratory, Inc.: *See*—
Penniman, John G.; and FitzGerald, Ryder O., 4,661,225, Cl. 204-183.300.
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Craig, Grantland A., 4,701,239, Cl. 156-519.000.
Johnson, Gary E.; Van Egeren, Andrew M.; Campbell, James F.; and Spencer, Harvey J., 4,650,173, Cl. 270-45.000.
Johnson, Peter A.; and Olesen, William A., 4,635,871, Cl. 242-68.300.
Merkatoris, John R., 4,711,683, Cl. 156-164.000.

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Larsonneur, Lionel M., 4,701,156, Cl. 493-418.000.

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Halpern, John W., 4,661,691, Cl. 235-375.000.

Paperno, Steven H.; and Monica, Lisa R. Protective overlay for watch crystal. 4,684,264, 8-4-87, Cl. 368-283.000.

Papierfabrik August Koehler AG: *See*—
Pietsch, Gunther; and Hartmann, Claus, 4,684,574, Cl. 428-402.200.

Papiernik, Wolfgang: *See*—
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Papillon, Jacques. Method and device for automatically switching on and off the headlights of a motor vehicle. 4,667,129, 5-19-87, Cl. 315-82.000.

Papillon, Jean-Charles: *See*—
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Perkin, Gregg S.; and Papke, Duane D., 4,709,462, Cl. 29-434.000.

Papp, Andrass: *See*—
Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.

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Nagy, Geza T.; Szepesi, Gabor; Gazdag, Maria; Papp nee Sziklay, Zsofia; and Burger, Kalman, 4,684,638, Cl. 514-185.000.

Pappalardo, Romano G.: *See*—
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Pappas, Andreas. Digital frequency divider or synthesizer and applications thereof. 4,658,406, 4-14-87, Cl. 377-48.000.

Pappas, Barbara: *See*—
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Pappas, Dean: *See*—
Meserol, Peter M.; Acker, Jesse L.; Murnick, Janet G.; and Pappas, Dean, 4,666,853, Cl. 435-290.000.

Pappas, Phillip M. Circuit breaker apparatus. 4,653,827, 3-31-87, Cl. 339-88.00C.

Pappenheimer, John R.: *See*—
Karnovsky, Manfred J.; Krueger, James M.; and Pappenheimer, John R., 4,668,661, Cl. 514-8.000.
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raMagnetic Logging, Inc.: *See*—
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Park, Chung P., to Dow Chemical Company, The. Expandable polyolefin compositions and preparation process utilizing isobutane blowing agent. 4,640,933, 2-3-87, Cl. 521-94.000.
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Park, Chung P., to Dow Chemical Company, The. Lightly crosslinked linear olefinic polymer foams and process for making. 4,714,716, 12-22-87, Cl. 521-80.000.
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Park, Kyong: *See*—
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Park, Noh-Aeok: *See*—
Irvine, Thomas F., Jr.; and Park, Noh-Aeok, 4,677,259, Cl. 73-57.000.
Park, Sang M.: *See*—
Son, Lee C., 4,667,349, Cl. 4-191.000.
Park, Sea C.; and Park, In P. 35 mm Automatic focus camera containing an instant film. 4,648,696, 3-10-87, Cl. 354-83.000.
Park, Soo H. Float operated valve. 4,655,244, 4-7-87, Cl. 137-412.000.
Park, Thompson. Boiler or furnace. 4,699,069, 10-13-87, Cl. 110-234.000.
Park, Yong S.: *See*—
Layre, John; Park, Yong S.; and Schollhamer, George K., 4,709,625, Cl. 99-289.00R.
Park, Young G. Golf cart. 4,648,612, 3-10-87, Cl. 280-47.280.
Parker, Andrew L.: *See*—
Jacobsen, William M.; and Parker, Andrew L., 4,706,864, Cl. 227-109.000.
Parker Arrestet Co., Ltd.: *See*—
Sato, Akira; and Maki, Fumio, 4,681,026, Cl. 98-115.200.
Parker, Barry R., to General Motors Corporation. Beverage holder for vehicle. 4,645,157, 2-24-87, Cl. 248-311.200.
Parker, Bruce H. Trash container wheel structure. 4,674,759, 6-23-87, Cl. 280-47.260.
Parker, Charles H.: *See*—
Baker, Robin C.; Brown, Steven E.; Lotiuco, John B.; Lozynak, Roman; Miller, Paul E.; Olsen, Robert H.; Parker, Charles H.; and Swoll, Eva C., 4,680,786, Cl. 379-60.000.
Parker Chemical Company: *See*—
Prescott, Thomas J., 4,647,316, Cl. 148-6.160.
Zurilla, Ronald W.; and Huff, John, 4,713,121, Cl. 428-472.300.
Parker, Dane K.: *See*—
Colvin, Howard A.; Cottman, Kirkwood S.; and Parker, Dane K., 4,714,772, Cl. 558-240.000.
Mate, Robert D.; Parker, Dane K.; and Blackwell, James C., 4,701,507, Cl. 526-208.000.
Smith, Robert A.; Parker, Dane K.; Colvin, Howard A.; Wisner, Arthur H.; and Patterson, Dennis B., 4,694,057, Cl. 526-279.000.
Parker, David A.: *See*—
Holt, Jeremy; Parker, David A.; and Ruddy, Brian L., 4,697,269, Cl. 92-160.000.
Parker, David H. Waterproof flashlight. 4,680,682, 7-14-87, Cl. 362-158.000.
Parker, David J.: *See*—
Briggs, Stuart J.; Parker, David J.; and Schluter, Peter, 4,702,073, Cl. 60-585.000.
Lilley, Eric M.; and Parker, David J., 4,702,077, Cl. 60-578.000.
Lilley, Eric M.; and Parker, David J., 4,703,624, Cl. 60-578.000.
Parker, David S.: *See*—
Hampton, Thomas G.; Mitsch, James M.; Palmieri, Joseph M.; Parker, David S.; and Smith, James L., 4,675,641, Cl. 337-82.000.
Hampton, Thomas G.; Mitsch, James M.; Palmieri, Joseph M.; Parker, David S.; and DeRosier, Donna C., 4,706,054, Cl. 335-203.000.
Parker, Delbert R.; and Clark, Daren A., to A. B. Chance Company. Terminal bracket structure for a current limiting fuse. 4,686,502, 8-11-87, Cl. 337-252.000.
Parker, Donald L., to General Motors Corporation. Vacuum check valve. 4,643,221, 2-17-87, Cl. 137-516.290.
Parker, Donald L., to General Motors Corporation. Pivotal attachment means employing a spring clip. 4,655,628, 4-7-87, Cl. 403-163.000.
Parker, Donald L., to General Motors Corporation. Booster mounting arrangement. 4,658,660, 4-21-87, Cl. 74-102.000.
Parker, Donald L., to General Motors Corporation. Push rod to pedal arm connection. 4,672,860, 6-16-87, Cl. 74-512.000.

Parker, Donald L.: *See*—
Haert, Timothy A.; and Parker, Donald L., 4,673,000, Cl. 137-860.000.

Parker, Edward: *See*—
Parker, Jeffrey L.; and Parker, Edward, 4,646,964, Cl. 236-49.000.

Parker, Edward J., to BASF Corporation. Detergent composition. 4,661,279, 4-28-87, Cl. 252-94.000.

Parker Electronics, Inc.: *See*—
Parker, Jeffrey L.; and Parker, Edward, 4,646,964, Cl. 236-49.000.

Parker, Eric G.: *See*—
Broomfield, Donald J.; Briggs, Paul C.; Parker, Eric G.; and Wagner, David P., 4,715,316, Cl. 118-716.000.

Parker, Euan, to Turner & Newall Plc. Friction materials and their manufacture. 4,656,203, 4-7-87, Cl. 523-155.000.

Parker, Fabienne: *See*—
Jolles, Pierre; Migliore-Samour, Daniele; Parker, Fabienne; and Casaretto, Monika, 4,637,997, Cl. 514-17.000.
Jolles, Pierre; Migliore-Samour, Daniele; and Parker, Fabienne, 4,647,554, Cl. 514-21.000.
Jolles, Pierre; Migliore-Samour, Daniele; and Parker, Fabienne, 4,716,151, Cl. 514-18.000.

Parker, Frank; and Parker, Leslie M. Granulator with cutting tongue and knife. 4,706,899, 11-17-87, Cl. 241-73.000.

Parker, George R., III: *See*—
McCreery, Michael J.; Wasthall, Gary D.; and Parker, George R., III, 4,650,166, Cl. 272-134.000.

Parker, George W.: *See*—
Cook, Lanny D.; and Parker, George W., 4,688,757, Cl. 251-210.000.

Parker, Graham J., to Cheetham, Jeffery J. Dental amalgam alloy. 4,686,082, 8-11-87, Cl. 420-503.000.

Parker Graphics Limited: *See*—
Fish, Brian F., 4,669,870, Cl. 355-91.000.

Parker-Hannifin Corporation: *See*—
Allen, Kenneth C., Jr.; and Findlay, Robert H., 4,702,273, Cl. 137-487.500.
Badureaux, Jean-Pierre, 4,702,278, Cl. 137-614.050.
Church, John F.; and Stone, Walter H., 4,692,245, Cl. 210-232.000.
Dlugokecki, Andrew N.; and Middlekauff, Carle A., 4,699,577, Cl. 418-61.000.
Hoffman, Robert K.; Kavanaugh, Mark A.; and Franson, David C., 4,640,309, Cl. 137-596.180.
Jelinek, Jerry G., 4,634,132, Cl. 277-11.000.
Jelinek, Jerry G., 4,702,657, Cl. 411-369.000.
Kenyon, Richard L., 4,684,368, Cl. 604-152.000.
Gehlchlaeger, Richard M.; and Greco, John R., 4,653,541, Cl. 138-104.000.
Parmentar, William F.; and Burls, Gary E., 4,664,315, Cl. 239-706.000.
Sharp, Bernard C., 4,645,170, Cl. 350-632.000.
Sharp, Bernard C., 4,683,606, Cl. 15-250.420.
Stevens, Curtis E., 4,680,465, Cl. 250-229.000.
Stone, Walter H., 4,668,393, Cl. 210-304.000.
Swift, William; and Fischell, Robert E., 4,697,622, Cl. 141-1.000.
Swift, William G., 4,655,765, Cl. 604-891.000.
Viola, Frank J.; Schaub, Erwin L.; and Burke, Lawrence H., 4,675,990, Cl. 29-623.000.
Viola, Frank J.; and Hubner, Henry H., Jr., 4,678,217, Cl. 294-16.000.
Viola, Frank J., 4,702,109, Cl. 73-440.000.
Washkewicz, Donald T.; and Belofsky, Harold, 4,699,178, Cl. 138-125.000.

Parker, Harry A.; and Greenman, Joseph, to Transfer Print Foils. Method for preparing a decorated insert and continuous insert molding operation. 4,643,789, 2-17-87, Cl. 156-219.000.

Parker, Harry A.; and Greenman, Joseph, to Transfer Print Foils, Inc. Preparation of hot transfer product for continuous in-mold decoration. 4,650,533, 3-17-87, Cl. 156-219.000.

Parker, James E. Saw buck. 4,703,830, 11-3-87, Cl. 182-151.000.

Parker, James F.: *See*—
LeBlanc, Michelle M.; Parker, James F.; Rabbit, Charles F.; and Wallace, Donald J., 4,688,426, Cl. 73-450.000.

Parker, Jay S.: *See*—
DeVries, Paul A.; Smith, Brian R.; and Parker, Jay S., 4,671,865, Cl. 370-85.000.

Parker, Jeffrey L.; and Parker, Edward, to Parker Electronics, Inc. Temperature control system. 4,646,964, 3-3-87, Cl. 236-49.000.

Parker, Joey K.; and Paul, Frank W., to Clemson University. Method and apparatus for repositioning a mislocated object with a robot hand. 4,715,773, 12-29-87, Cl. 414-730.000.

Parker, John, to Holset Engineering Company Limited. Wastegate valve for internal combustion engine turbocharger. 4,655,040, 4-7-87, Cl. 60-602.000.

Parker, John A.; Heimbuch, Alvin H.; Hsu, Ming-Ta S.; and Chen, Timothy S., to United States of America, National Aeronautics and Space Administration. Structural panels. 4,647,615, 3-3-87, Cl. 524-548.000.

Parker, John A., to United Kingdom Atomic Energy Authority. Ultrasonic imaging. 4,682,296, 7-21-87, Cl. 364-518.000.

Parker, John A.; Feldman, Rubin; and Bryant, Robert L., to Thermal Science, Inc. Method for producing ammonium polyphosphate. 4,687,651, 8-18-87, Cl. 423-315.000.

Parker, John A.; Feldman, Rubin; and Bryant, Robert L., to Thermal Science, Inc. Thermally adaptive polymers and prepolymers and methods of making in which an imide is formed from a polyanhydride oligomer and an isocyanate. 4,687,785, 8-18-87, Cl. 521-106.000.

Parker, John A.: *See*—
Achar, Bappaligе N.; Fohlen, George M.; and Parker, John A., 4,649,189, Cl. 528-220.000.
Kumar, Devendra; Fohlen, George M.; and Parker, John A., 4,634,759, Cl. 528-321.000.
Kumar, Devendra; Fohlen, George M.; and Parker, John A., 4,668,589, Cl. 428-417.000.

Parker, John P., to U.S. Philips Corporation. Apparatus for distinguishing between speech and certain other signals. 4,715,065, 12-22-87, Cl. 381-46.000.

Parker, John W.: *See*—
Engle, Thomas H.; and Parker, John W., 4,652,057, Cl. 303-3.000.

Parker, Judson W.: *See*—
Sarwinski, Raymond E.; Purcell, John R.; Parker, Judson W.; and Burnett, Sibley C., 4,680,936, Cl. 62-45.000.

Parker, Kenneth B.: *See*—
Blair, Christon R.; and Parker, Kenneth B., 4,640,647, Cl. 405-224.000.
Blair, Christon R.; and Parker, Kenneth B., 4,710,061, Cl. 405-195.000.

Parker Kinetic Designs, Inc.: *See*—
Prince, Aaron E., Jr.; and Pryor, Dale H., 4,645,898, Cl. 219-104.000.
Weldon, James M.; Aanstoos, Theodore A.; Zowarka, Raymond C.; and Weldon, William F., 4,656,328, Cl. 219-104.000.

Parker, Lanny L., to Codex Corporation. CMOS input buffer accepting TTL level inputs. 4,642,488, 2-10-87, Cl. 307-475.000.

Parker, Laurence: *See*—
Horne, David; and Parker, Laurence, 4,690,286, Cl. 211-41.000.

Parker, Lawrence D.; and English, Adrian M., to American Cyanamid Company. Animal feed block compositions. 4,650,679, 3-17-87, Cl. 424-118.000.

Parker, Leslie K.: *See*—
Bowyer, William H.; Crocker, Robert L.; Hansford, Christopher M.; Parker, Leslie K.; and Gray, Nigel, 4,678,194, Cl. 273-373.000.

Parker, Leslie M.: *See*—
Parker, Frank; and Parker, Leslie M., 4,706,899, Cl. 241-73.000.

Parker, Lorne A., to IK Entertainment Center Ltd. Method and apparatus for producing an audio magnetic tape recording from a preselected music library. 4,703,465, 10-27-87, Cl. 369-30.000.

Parker, Louis W.: *See*—
Hedges, Rhey W., 4,636,702, Cl. 318-729.000.

Parker, Merle A.; Pregnall, Richard A.; and Ahmed, Hassan J., to Westinghouse Electric Corp. Measurement of moisture content. 4,709,579, 12-1-87, Cl. 73-76.000.

Parker, Norman W., to Motorola, Inc. AM stereo system with modified spectrum. 4,680,794, 7-14-87, Cl. 381-15.000.

Parker Pen (Benelux) B.V.: *See*—
Herold, Gerald C.; and Jung, Harley A., 4,702,634, Cl. 401-53.000.

Parker Pen Company, The: *See*—
Schmidt, Gunther, 4,702,633, Cl. 401-34.000.

Parker Pen Ltd.: *See*—
Hornbostel, Lloyd; and Butrymowicz, Dale, 4,713,150, Cl. 204-38.300.

Parker, Phillip H., to Chevron Research Company. Alkyl substituted phenolphthalein polyarylate polymer and alloy. 4,652,608, 3-24-87, Cl. 525-132.000.

Parker, Preston K.; and Toutant, Roy T., to General Electric Company. Conveyer system. 4,715,286, 12-29-87, Cl. 104-88.000.

Parker, Randy L.: *See*—
Parker, Winfred C.; and Parker, Randy L., 4,662,027, Cl. 15-392.000.

Parker, Robert, to Taliq Corporation. Liquid crystal apparatus having concealed conductive paths. 4,669,828, 6-2-87, Cl. 350-339.00R.

Parker, Robert. Battery tester including textile substrate. 4,702,563, 10-27-87, Cl. 350-351.000.

Parker, Robert. Battery tester including flexible substrate and polyacetylnic material. 4,702,564, 10-27-87, Cl. 350-351.000.

Parker, Robert: *See*—
Larsson, Peter L.; Parker, Robert; and Ratzlaff, Thomas D., 4,634,213, Cl. 339-275.00T.
McLaughlin, Charles W.; Fergason, James L.; and Parker, Robert, 4,693,470, Cl. 350-334.000.

Parker, Robert G., to Scott Bader Company Limited. Ceramic tile adhesive water resistant compositions based on copolymers emulsions. 4,661,548, 4-28-87, Cl. 524-204.000.

Parker, Robert P., to RCA Corporation. Single channel if for video and audio. 4,716,464, 12-29-87, Cl. 358-197.000.

Parker, Robert P.: *See*—
Fillman, Paul D.; Harwood, Leopold A.; Keen, Ronald T.; and Parker, Robert P., 4,660,084, Cl. 358-171.000.
Tallant, James C., II; and Parker, Robert P., 4,639,785, Cl. 358-184.000.

Parker, Robert R.: *See*—
Rattan, Dev R.; and Parker, Robert R., 4,698,770, Cl. 364-900.000.

Parker, Robert W. Bed sheet fastener. 4,646,375, 3-3-87, Cl. 5-498.000.

Parker, Stephen J.; and Wahlquist, Clayton C., to Sperry Corporation. Video amplifier with foreground and background controls. 4,651,064, 3-17-87, Cl. 315-383.000.

Parker, Theodore L.; and Martin, Patrick H., to Dow Chemical Company, The. High temperature epoxy resin composition with reduced viscosity. 4,661,578, 4-28-87, Cl. 528-98.000.

Parker, Theodore L., to Dow Chemical Company, The. Isocyanate adducts with benzoxazolones or benzoxazinediones and use thereof as

latent chain extenders or cross-linkers for epoxides. 4,701,512, 10-20-87, Cl. 528-45.000.
Parker, Theodore L., to Dow Chemical Company, The. Use, as latent cross-linkers for epoxy resins, of compounds which can be rearranged in situ to difunctional phenols. 4,716,204, 12-29-87, Cl. 525-504.000.
Parker, Thomas J., to American Cyanamid Company. Process for the manufacture of a stick push-up device. 4,700,448, 10-20-87, Cl. 29-434.000.
Parker, Thomas S.: *See*—
Baird, Suzanne K.; Benignus, Douglas M.; Busch, Dennis G.; Jeffries, Astrid P.; Parker, Thomas S.; and Vossman, Robert A., 4,672,574, Cl. 364-900.000.
Parker Vannifin Corporation: *See*—
Riefler, Roger G.; and Ellison, John E., 4,649,360, Cl. 335-255.000.
Parker, Wesley A., Hardesty, Donald E.; and Stanley, Jack E., to Shell Oil Company. Mechanical implant to reduce back pressure in a riser reactor equipped with a horizontal tee joint connection. 4,666,675, 5-19-87, Cl. 422-147.000.
Parker, Wesley A.; Hardesty, Donald E.; and Stanley, Jack E., to Shell Oil Company. Selective placement of fluid injection in a riser reactor equipped with a horizontal tee joint connection to substantially reduce back pressure in the riser reactor. 4,692,235, 9-8-87, Cl. 208-113.000.
Parker, Wesley A.; Dewitz, Thomas S.; Hinds, George P., Jr.; Gwyn, John E.; Bilgic, A. Haluk; and Hardesty, Donald E., to Shell Oil Company. Apparatus for the separation of fluid cracking catalyst particles from gaseous hydrocarbons. 4,692,311, 9-8-87, Cl. 422-144.000.
Parker, William L. Method and apparatus for restoring a beach. 4,710,056, 12-1-87, Cl. 405-15.000.
Parker, William L.: *See*—
Liu, Wen-Chih; Parker, William L.; Singh, Pushpa; and Sykes, Richard B., 4,686,299, Cl. 549-271.000.
Parker, William T.: *See*—
Marks, Richard L.; and Parker, William T., 4,648,669, Cl. 339-75.00M.
Parker, Winfred C.; and Parke Randy L. Brush roller attachment kit. 4,662,027, 5-5-87, Cl. 15-392.600.
Parkes, Adrian S.; Corbett, Gordon J.; Clough, Peter S.; and Barker, Colin N. H., to British Gas Corporation. Sealing joints and leaks. 4,643,855, 2-17-87, Cl. 264-36.000.
Parkes, Christopher W.: *See*—
Giebeler, Robert H.; and Parkes, Christopher W., 4,700,117, Cl. 318-327.000.
Parkhouse, Alan: *See*—
Kerner, Dieter; Kleinschmit, Peter; Parkhouse, Alan; and Wolff, Siegfried, 4,704,414, Cl. 523-213.000.
Parkhurst, Larry E.; and Meadows, Michael R., to Dieterich Standard Corporation. Optic sensor with reference and detecting optic circuits. 4,694,159, 9-15-87, Cl. 250-227.000.
Parkhurst, Larry E.: *See*—
Aten, Edward M.; and Parkhurst, Larry E., 4,674,652, Cl. 221-3.000.
Parkin, Graeme I. P.: *See*—
Chorley, Bernard J.; Parkin, Graeme I. P.; Wichmann, Brian A.; and Elsom, Simon M., 4,634,807, Cl. 178-22.080.
Parkins, Donald L. Locksmith tool for unlocking motor vehicle doors. 4,655,102, 4-7-87, Cl. 81-15.900.
Parkins, Donald L. Locksmith's wedge for automobile doors. 4,697,789, 10-6-87, Cl. 254-104.000.
Parkinson, C. Harry, to DEI-East Inc. Air flow system bypassing a balance in a model airplane being tested in a wind tunnel. 4,663,967, 5-12-87, Cl. 73-147.000.
Parkinson, George L. Ski steering apparatus. 4,643,444, 2-17-87, Cl. 280-606.000.
Parkinson, Gerald W.: *See*—
Bradford, Michael P.; Parkinson, Gerald W.; and Grant, Ross M., 4,638,175, Cl. 307-64.000.
Parkinson, James G.; and Kirsten, Thomas P. Protective device. 4,709,966, 12-1-87, Cl. 297-473.000.
Parkinson, Neil, to British Gas Corporation. Vibratory wire strain gauge assemblies for underwater attachment. 4,663,975, 5-12-87, Cl. 73-778.000.
Parkinson, William J., to United States of America, Energy. Fossil fuel furnace reactor. 4,706,581, 11-17-87, Cl. 110-349.000.
Parkinson, William S.; and Djerf, Villy E., to Bunker Plastics, Inc. Ceiling and wall tile. 4,692,372, 9-8-87, Cl. 428-282.000.
Parks, Beryl H.: *See*—
Weiland, Lynne E.; and Parks, Beryl H., 4,702,881, Cl. 376-442.000.
Parks, Carl R.: *See*—
Hopper, Roger J.; and Parks, Carl R., 4,714,742, Cl. 525-346.000.
Parks-Cramer Company: *See*—
Mulligan, William L., 4,697,298, Cl. 15-312.00R.
Sumner, C. Thom; and Lane, John E., 4,665,686, Cl. 57-264.000.
Parks, David R.: *See*—
Nozaki, Tom, Jr.; Sweet, Richard G.; Stovel, Richard T.; and Parks, David R., 4,667,830, Cl. 209-3.100.
Parks, Hal. Impeller and compaction refuse collection system. 4,640,659, 2-3-87, Cl. 414-503.000.
Parks, Harold G.; and Possin, George E., to General Electric Company. Deposition and hardening of titanium gate electrode material for use in inverted thin film field effect transistors. 4,646,424, 3-3-87, Cl. 29-571.000.
Parks, Harold G.: *See*—
Possin, George E.; Parks, Harold G.; and Piper, William W., 4,704,783, Cl. 437-40.000.
Parks, Jack C. Automatic animal feeder and water dispenser. 4,688,520, 8-25-87, Cl. 119-51.110.
Parks, John C.: *See*—
Bark, Wendell G.; and Parks, John C., 4,659,021, Cl. 241-18.000.
Parks, Malcolm G. Method of and means for coupling a two conductor transmission line to an antenna. 4,644,364, 2-17-87, Cl. 343-825.000.
Parks, Paul: *See*—
Perkins, Francis W., Jr.; Chiu, Shiu-Chu; Parks, Paul; and Rawls, John M., 4,661,304, Cl. 376-123.000.
Parks, Robert E., to Antek Instruments, Inc. Chemiluminescent sulfur detection apparatus and method. 4,678,756, 7-7-87, Cl. 436-123.000.
Parks, Stephen K., to Medical Innovations Corporation. Gastrostomy feeding device. 4,666,433, 5-19-87, Cl. 604-178.000.
Parks, Stephen K., to Medical Innovations Corporation. Gastro-jejunal feeding device. 4,685,901, 8-11-87, Cl. 604-96.000.
Parks, Stephen K., to Medical Innovations Corporation. Gastrostomy feeding device. 4,701,163, 10-20-87, Cl. 604-178.000.
Parks, Sydney. Capacitive sensing security system. 4,684,931, 8-4-87, Cl. 340-563.000.
Parks, William R.: *See*—
Ide, Allan R.; Parks, William R.; and Arnold, Peter S., 4,668,89, Cl. 318-280.000.
Parkyn, Derek J., to Crosfield Electronics Limited. Image superimposing system. 4,675,725, 6-23-87, Cl. 358-22.000.
Parl, Steen A.; and Pierce, John N., to Signatron, Inc. Spread spectrum adaptive antenna interference canceller. 4,670,885, 6-2-87, Cl. 375-1.000.
Parlak, Edward A.: *See*—
Gallo, Frank G.; Swenson, Clark E.; Bencloski, William A.; Cusette, Angelo J.; Manno, John L.; and Parlak, Edward A., 4,716,010, Cl. 376-260.000.
Parlette, Larry J.: *See*—
Peters, Richard E.; and Parlette, Larry J., 4,681,360, Cl. 296-37.600.
Parli, C. John: *See*—
Whitten, Kathleen R.; Garbrecht, William L.; Marzoni, Gifford P.; and Parli, C. John, 4,683,236, Cl. 514-288.000.
Parlman, Robert M.: *See*—
Bresson, Clarence R.; and Parlman, Robert M., 4,681,675, Cl. 209-167.000.
Bresson, Clarence R.; Parlman, Robert M.; and Kimble, James B., 4,686,033, Cl. 209-167.000.
Kimble, James B.; and Parlman, Robert M., 4,643,823, Cl. 209-166.000.
Parlour, Noel S. Article orienting, feeding and wrapping apparatus. 4,688,373, 8-25-87, Cl. 53-542.000.
Parma Corporation: *See*—
Miller, John E., 4,654,905, Cl. 5-249.000.
Rogers, Walter C., Jr., 4,669,778, Cl. 297-85.000.
Rogers, Walter C., Jr.; and Holobaugh, Raymond E., 4,691,961, Cl. 297-61.000.
Rogers, Walter C., Jr., 4,694,515, Cl. 5-13.000.
Rogers, Walter C., Jr., 4,707,025, Cl. 297-259.000.
Parmar, Harivaden A.: *See*—
Des Forges, Howard A.; Gresty, John B.; and Parmar, Harivaden A., 4,674,833, Cl. 350-96.210.
Parmatic Filter Corporation: *See*—
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Parmentar, William F.; and Berls, Gary E., to Parker Hannifin Corporation. Electrostatic spray nozzle. 4,664,315, 5-12-87, Cl. 239-706.000.
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Savall, Jose; Parmentier, Claude; and Amelot, Bernard, 4,707,890, Cl. 24-122.600.
Parmigiani, Bruno; and Lanfranconi, Gianmario, to Societa' Cavi Pirelli S.p.A. Joint for cables with an extruded insulation. 4,698,458, 10-6-87, Cl. 174-73.00R.
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Parnell, Raymond, to Tomorrow Group, Inc., The. Modular panels for a display apparatus. 4,694,965, 9-22-87, Cl. 211-87.000.
Parnham, Michael J.: *See*—
Lautenschlager, Hans-Heiner; Parnham, Michael J.; Leyck, Sigurd; Winkelmann, Johannes; and Brekle, Axel, 4,705,802, Cl. 514-438.000.
Parnc, Leroy O. Corvette wing. 4,635,991, 1-13-87, Cl. 296-1.00S.
Parnoff, George K.; and Sultan, Steven L., to Andros Analyzers Incorporated. Adaptor assembly for airway tube. 4,679,573, 7-14-87, Cl. 128-716.000.
Parnoff, George K.: *See*—
Passaro, Robert E.; Williams, Kevin G.; Parnoff, George K.; and Rogers, Raymond E., 4,692,621, Cl. 250-343.000.
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Antonini, Bruno; Borghese, Camillo; D'Amico, Arnaldo; DeGasperis, Paolo; Paoletti, Antonio; Paroli, Paolo; Petrocco, Giovanni; Tucciarone, Aldo; and Scarinci, Fernando, 4,640,629, Cl. 374-178.000.
Paros, Jerome M.; Kistler, Walter P.; and Busse, Donald W., to Paroscientific, Inc. Torque tube digital differential pressure sensor. 4,651,569, 3-24-87, Cl. 73-704.000.
Paros, Jerome M.; Tonn, Jeffrey F.; and Wearn, Richard B., Jr., to Sundstrand Data Control, Inc. Mounting and isolation system for tuning fork temperature sensor. 4,706,259, 11-10-87, Cl. 374-117.000.

Paroscientific, Inc.: *See*—
Paros, Jerome M.; Kistler, Walter P.; and Busse, Donald W., 4,651,569, Cl. 73-704.000.

Parr, David T.: *See*—
Daly, Michael J.; and Parr, David T., 4,685,765, Cl. 350-96.210.

Parr, Deborah J.: *See*—
Glaug, Frank S.; Lucert, Thomas J.; and Parr, Deborah J., 4,701,178, Cl. 604-387.000.

Parr, Dennis J.: *See*—
Sardella, Louis M.; West, John B.; Harrison, John R.; and Parr, Dennis J., 4,683,822, Cl. 101-382.0MV.

Parr, Erwin W.: *See*—
Brandt, Timothy B.; and Parr, Erwin W., 4,633,901, Cl. 137-510.000.

Parr, Jack E.: *See*—
Farling, Gene M.; Parr, Jack E.; and Zolman, Arden R., 4,660,755, Cl. 228-178.000.

Parr Manufacturing, Inc.: *See*—
Brandt, Timothy B.; and Parr, Erwin W., 4,633,901, Cl. 137-510.000.

Parr, Richard S.; Ramachandran, Pallassana N.; Grey, Seymour; and Reinish, Martin D., to Colgate Palmolive Co. Process for manufacturing bentonite-containing particulate fabric softening detergent composition. 4,699,729, 10-13-87, Cl. 252-174.250.

Parr, Willard J. Towable dolly. 4,666,359, 5-19-87, Cl. 414-485.000.

Parra, Ernest P.; and Haughton, Billy L. Tool for washing over, cutting and retrieving a portion of a pipe within a well bore. 4,662,436, 5-5-87, Cl. 166-55.600.

Parracho, Rui M.; Smith, Lloyd S.; Bunch, Richard P.; and Gross, Alexander L., to Converse Inc. Athletic shoe with external counter and cushion assembly. 4,638,576, 1-27-87, Cl. 36-68.000.

Parramore, Thomas S., to Fairey Engineering Limited. Methods of deploying a bridge of a particular construction. 4,663,793, 5-12-87, Cl. 14-2.400.

Parramore, Thomas S., to Fairey Engineering Limited. Methods of constructing modular bridges. 4,665,577, 5-19-87, Cl. 14-2.400.

Parran, John J., Jr., and Sakkab, Nabil Y., to Procter & Gamble Company, The. Oral compositions. 4,684,518, 8-4-87, Cl. 424-52.000.

Parraud, Rene: *See*—
de Decker, Daniel; Parraud, Rene; and Tartier, Serge, 4,670,624, Cl. 174-140.00R.

Parrillo, Louis C.: *See*—
Coquin, Gerald A.; Lynch, William T.; and Parrillo, Louis C., 4,647,957, Cl. 357-42.000.
Lynch, William T.; and Parrillo, Louis C., 4,646,123, Cl. 357-42.000.
Lynch, William T.; and Parrillo, Louis C., 4,656,730, Cl. 29-571.000.
Teng, Ker-Wen; Nguyen, Bich-Yen; and Parrillo, Louis C., 4,686,552, Cl. 357-23.600.

Parrini, Paolo: *See*—
Pizzigoni, Giuseppe; and Parrini, Paolo, 4,686,064, Cl. 252-153.000.

Parris, Danny M. Therapy radiation apparatus for veterinary medicine. 4,646,743, 3-3-87, Cl. 128-396.000.

Parris, David; and Tonner, Steven P., to ICI Australia Limited. Catalyzed process. 4,684,755, 8-4-87, Cl. 585-257.000.

Parrish, Charles A.: *See*—
Bryant, Cal L.; Parrish, Charles A.; and Griffin, B. Franklin, Jr., 4,674,403, Cl. 100-4.000.

Parrish, David P.: *See*—
Gash, Bruce W.; Arri, Luis E.; Hunt, Elton B., Jr.; and Parrish, David R., 4,648,450, Cl. 166-259.000.

Parrish, Donald B.: *See*—
Ellerbe, Gilbert B., III; and Parrish, Donald B., 4,696,976, Cl. 525-126.000.

Parrish, Gregory K.: *See*—
Holmgren, Mark E.; Parrish, Gregory K.; and Cartier, Philip A., 4,710,393, Cl. 426-660.000.

Parrish, James R., to Chatleff Controls, Inc. Fluid distributor, and a method of affixing extensions to the fluid distributor. 4,674,673, 6-23-87, Cl. 228-174.000.

Parrish, John A.: *See*—
Oseroff, Allan; Foley, James; Cincotta, Louis; and Parrish, John A., 4,651,739, Cl. 128-395.000.

Parrish, Randall E.: *See*—
Fogleman, H. Frank; and Parrish, Randall E., 4,671,086, Cl. 70-277.000.
Fogleman, H. Frank; and Parrish, Randall E., 4,686,912, Cl. 109-59.00T.

Parrish, Stanley G. Buckle and body restraint system for a vehicle. 4,682,390, 7-28-87, Cl. 24-632.000.

Parron, Ivan; and Rosenthal, Michael R. Support assembly for a shelf or like structure. 4,677,794, 7-7-87, Cl. 52-36.000.

Parrott, Ely and Hurt Consulting Engineers, Inc.: *See*—
Sexton, Donald L.; Hurt, Ronald L.; and Lewis, Richard G., 4,659,252, Cl. 405-109.000.

Parrott, George A.; and Preddy, Neil, to Minnovation Limited. Mineral cutting device. 4,652,056, 3-24-87, Cl. 299-81.000.

Parrott, Stephen L.; Kukes, Simon G.; and Efner, Howard F., to Phillips Petroleum Company. Process for the preparation of promoted catalysts. 4,636,487, 1-13-87, Cl. 502-168.000.

Parrott, Stephen L.; Kukes, Simon G.; and Brandes, Karlheinz K., to Phillips Petroleum Company. Hydrofining catalyst composition and process for its preparation. 4,687,757, 8-18-87, Cl. 502-220.000.

Parrott, Stephen L.: *See*—
Gardner, Lloyd E.; and Parrott, Stephen L., 4,707,246, Cl. 208-251.00H.
Kukes, Simon G.; and Parrott, Stephen L., 4,648,963, Cl. 208-216.00R.
Kukes, Simon G.; and Parrott, Stephen L., 4,652,361, Cl. 208-213.000.
Kukes, Simon G.; and Parrott, Stephen L., 4,681,869, Cl. 502/349.000.
Kukes, Simon G.; and Parrott, Stephen L., 4,687,568, Cl. 208-251.00H.

Parrow, R. Alan; and DiAntonio, Francis W. Fuel line adapter. 4,682,796, 7-28-87, Cl. 285-39.000.

Parry, David: *See*—
Price, Anthony G.; Parry, David; and Campbell, Roy, 4,653,614, Cl. 188-70.00B.

Parry, John O.: *See*—
Gregorig, Stephen I. N.; and Parry, John O., 4,674,879, Cl. 356-301.000.

Parry, Keith P.; Rathmell, William G.; and Worthington, Paul A., to Imperial Chemical Industries PLC. Heterocyclic compounds. 4,654,332, 3-31-87, Cl. 514-184.000.

Parry, Rodger J. Building frame support and method of erection. 4,662,146, 5-5-87, Cl. 52-745.000.

Parsapour, Hossein B.: *See*—
Arldt, Brian D.; Loeb, Jonathon T.; Miller, Joseph C.; Parsapour, Hossein B.; Rascoe, Fred H., III; and Woodward, Don W., 4,678,175, Cl. 271-34.000.

Parsi, Edgardo J.; Sims, Keith J.; and Goldstein, Arthur L., to Ionics Incorporated. Method and apparatus for improving the life of an electrode. 4,707,240, 11-17-87, Cl. 204-290.00F.

Parsley, David W., to Sperry Corporation. Dual-inductor buck switching converter. 4,713,742, 12-15-87, Cl. 363-124.000.

Parsley, David W.: *See*—
Martin, Hubert C., Jr.; Hitler, Gene D.; and Parsley, David W., 4,638,417, Cl. 363-41.000.

Parslow, Michael W.; and Nooi, Jacobus R., to Lever Brothers Company. Detergent composition. 4,648,979, 3-10-87, Cl. 252-8.800.

Parslow, Michael W.; and Nooi, Jacobus R., to Lever Brothers Company. Detergent compositions. 4,661,289, 4-28-87, Cl. 252-547.000.

Parslow, Michael W.: *See*—
Farnworth, Pauline; Garner-Gray, Peter F.; and Parslow, Michael W., 4,650,599, Cl. 252-99.000.

Parson, Lee M.: *See*—
Foscante, Raymond E.; Stevens, Charles D.; and Parson, Lee M., 4,670,481, Cl. 523-122.000.

Parsonage, Peter C. J., to Development Finance Corporation. Electronic switch. 4,651,023, 3-17-87, Cl. 307-117.000.

Parsonage, Peter C. J., to Development Finance Corporation of New Zealand. Speed indicating means. 4,653,319, 3-31-87, Cl. 73-181.000.

Parsonage, Philip G., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Trade and Industry in Her Britannic Majesty's Government of the. Method of separation of material from material mixtures. 4,643,822, 2-17-87, Cl. 209-8.000.

Parsons, Bryan N. V., to Jaguar Cars Limited. Mechanism for transmitting rotational motion from one shaft to another. 4,674,361, 6-23-87, Cl. 74-804.000.

Parsons, Charles F.: *See*—
Miller, Curtis M.; Myers, Charles L.; and Parsons, Charles F., 4,634,732, Cl. 524-504.000.

Parsons, Clifford L.; and Parsons, Myrtle A. Magnetic wrench socket. 4,663,998, 5-12-87, Cl. 81-125.000.

Parsons, Dale W., to Telex Computer Products, Inc. Apparatus for calibrating tape drive read system. 4,688,113, 8-18-87, Cl. 360-67.000.

Parsons, David, to Automotive Products plc. Motor vehicle transmission including a hill holder device. 4,650,046, 3-17-87, Cl. 192-3.00H.

Parsons, David M. Device for moving an automobile with disabled wheels. 4,640,495, 2-3-87, Cl. 254-8.00B.

Parsons, Donald F.; Parsons, Gerald J.; Greenwald, Brian D.; and Forsythe, Elizabeth A., to Communications Test Design, Inc. Circuit testing of telephone grids or the like. 4,670,897, 6-2-87, Cl. 379-10.000.

Parsons, Donald F., to Communications Test Design, Inc. Switch testing. 4,692,939, 9-8-87, Cl. 379-16.000.

Parsons, Dorothy. Elastic bandage. 4,653,492, 3-31-87, Cl. 128-155.000.

Parsons, Edward K. Apparatus for honing a cylinder. 4,707,944, 11-24-87, Cl. 51-34.00F.

Parsons, Edward L., Jr.: *See*—
Darragh, Charles T.; and Parsons, Edward L., Jr., 4,697,633, Cl. 165-51.000.

Parsons, Edward S.: *See*—
Ludwick, John J.; and Parsons, Edward S., 4,663,583, Cl. 323-217.000.

Parsons, Frederick L., to Brown, Neuberne H., Jr., a part interest. Continuously variable transmission. 4,650,442, 3-17-87, Cl. 474-29.000.

Parsons, Frederick L. Differential drive. 4,665,769, 5-19-87, Cl. 74-714.000.

Parsons, Gerald J.: *See*—
Parsons, Donald F.; Parsons, Gerald J.; Greenwald, Brian D.; and Forsythe, Elizabeth A., 4,670,897, Cl. 379-10.000.

Parsons, James D.; and Snyder, David E., to Hughes Aircraft Company. Vertical channel field effect transistor. 4,677,451, 6-30-87, Cl. 357-22.000.

Parsons, James S.; and Gasaway, Jack W., to Injet Medical Products, Inc. Needleless hypodermic injection device. 4,680,027, 7-14-87, Cl. 604-68.000.

Parsons, John P.: *See*—
Barclay, John A.; Stewart, Walter F.; Prenger, F. Coyne; Zimm, Carl B.; and Parsons, John P., 4,702,090, Cl. 62-3.000.
Parsons, Michael, to Teledyne Canada Limited. Material handling system. 4,692,085, 9-8-87, Cl. 414-633.000.
Parsons, Myrtle A.: *See*—
Parsons, Clifford L.; and Parsons, Myrtle A., 4,663,998, Cl. 81-125.000.
Parsons, Natan. Cervical-dilation meter. 4,682,609, 7-28-87, Cl. 128-775.000.
Parsons, Norman H., to D-Tec, Inc. Air gage assembly. 4,704,896, 11-10-87, Cl. 73-37.900.
Parsons, Ralph E.: *See*—
Amelio, William J.; Bartolotta, Peter G.; Markovich, Voya; and Parsons, Ralph E., 4,655,833, Cl. 106-1.230.
Parsons, Theron E.: *See*—
Coney, Charles H.; and Parsons, Theron E., 4,704,309, Cl. 427-258.000.
Parsons, William H.; and Taub, David, to Merck & Co., Inc. Substituted N-carboxymethyl-aminoacylaminoalkanoic acids useful as antihypertensive agents. 4,634,716, 1-6-87, Cl. 514-423.000.
Parsons, William H., to Merck & Co., Inc. Benzofused lactams useful as antihypertensive agents and as cholecystokinin antagonists. 4,652,641, 3-24-87, Cl. 540-523.000.
Parsons, William H., to Merck & Co., Inc. Substituted lactams useful as angiotensin converting enzyme inhibitors. 4,666,901, 5-19-87, Cl. 514-212.000.
Parsons, William H.; and Patchett, Arthur A., to Merck & Co., Inc. Benzofused lactams useful as cholecystokinin antagonists. 4,692,522, 9-8-87, Cl. 540-523.000.
Parsons, William H.; Schoen, William R.; Patchett, Arthur A.; and Taniguchi, Masao, to Merck & Co., Inc. Novel antibacterial agents and potentiators of carbapenem antibiotics. 4,715,994, 12-29-87, Cl. 260-502.50E.
Parsons, William H.: *See*—
Chang, Raymond S. L.; and Parsons, William H., 4,684,645, Cl. 514-213.000.
Partain, Larry D.: *See*—
McLeod, Paul S.; Cape, John A.; Fraas, Lewis M.; and Partain, Larry D., 4,658,086, Cl. 136-249.000.
Partanen, Paavo; and Soderena, Soini, to Elevator GmbH. Apparatus for angularly displacing a load. 4,687,110, 8-18-87, Cl. 212-147.000.
Parteurosa, Societe Anonyme: *See*—
Bersani, Pierre, 4,653,659, Cl. 220-1.500.
Parthasarathi, Arvind; and Polan, Ned W., to Olin Corporation. Copper stainproofing technique. 4,647,315, 3-3-87, Cl. 148-6.160.
Parthasarathi, Arvind, to Olin Corporation. In-situ dendritic treatment of electrodeposited foil. 4,692,221, 9-8-87, Cl. 204-13.000.
Parthasarathi, Arvind: *See*—
Polan, Ned W.; and Parthasarathi, Arvind, 4,652,346, Cl. 204-15.000.
Particle Measuring Systems, Inc.: *See*—
Knollenberg, Robert G., 4,636,075, Cl. 356-336.000.
Partin, Dale L.: *See*—
Shu-Ti Lee, Peter; Majkowski, Richard F.; and Partin, Dale L., 4,684,805, Cl. 250-343.000.
Partipilo, Roger D.: *See*—
Stempfle, Julius E.; and Partipilo, Roger D., 4,657,486, Cl. 417-12.000.
Partis, Richard A.; and Mueller, Richard A., to G. D. Searle & Co. Pharmaceutical compositions containing 5-phenyl-1,3-dioxoalkenyl compounds. 4,649,157, 3-10-87, Cl. 514-545.000.
Partis, Richard A.: *See*—
Mueller, Richard A.; and Partis, Richard A., 4,649,147, Cl. 514-315.000.
Mueller, Richard A.; Partis, Richard A.; and Deason, James R., 4,663,333, Cl. 514-346.000.
Mueller, Richard A.; and Partis, Richard A., 4,692,552, Cl. 562-475.000.
Mueller, Richard A.; Partis, Richard A.; and Deason, James R., 4,711,903, Cl. 514-381.000.
Partlow, Deborah P.: *See*—
Yoldas, Bulent E.; and Partlow, Deborah P., 4,687,652, Cl. 423-327.000.
Partnership of Robert Walker and Paul Lund: *See*—
Walker, Robert L.; Crowe, Dale A.; and Lund, Paul D., 4,649,369, Cl. 340-52.00R.
Parton, Kenny R., to Steele, R. W., II. Chain punch. 4,635,437, 1-13-87, Cl. 59-7.000.
Partridge, David, to Starpoint Electrics Limited. Coin checking. 4,662,501, 5-5-87, Cl. 194-319.000.
Partridge, Jerry A.: *See*—
Hermens, Richard A.; Kendall, Jack B.; and Partridge, Jerry A., 4,668,482, Cl. 423-15.000.
Partridge, John J.; Shiuey, Shian-Jan; and Uskokovic, Milan R., to Hoffmann-La Roche Inc. Synthesis of 1α,25-dihydroxy-24R-fluorocholecalciferol and 1α,25-dihydroxy-24S-fluorocholecalciferol. 4,634,692, 1-6-87, Cl. 514-167.000.
Partridge, John J.; Shiuey, Shian-Jan; and Uskokovic, Milan R., to Hoffmann-La Roche Inc. Synthesis of 1α,25-dihydroxy-24R-fluorocholecalciferol and 1α,25-dihydroxy-24S-fluorocholecalciferol. 4,652,405, 3-24-87, Cl. 260-397.100.
Partus, Fred P.; and Jones, Michael A., to National Product Marketing. Control switch cover. 4,638,129, 1-20-87, Cl. 200-43.220.
Partz, Karl-Erich: *See*—
Fauerbach, Rudolf; and Partz, Karl-Erich, 4,663,868, Cl. 37-190.000.
Partz, Klaus-Dieter, to Klockner-Humboldt-Deutz Aktiengesellschaft. Bonding of highly wear-resistant plates, particularly ceramic plates, to a carrier to be protected against wear. 4,645,068, 2-24-87, Cl. 198-676.000.
Parvin, Bahram A., to Ford Aerospace & Communications Corporation. Systolic array for solving cyclic loop dependent algorithms. 4,698,751, 10-6-87, Cl. 364-200.000.
Parylak, Stanley R., to Penn Fishing Tackle Mfg. Co. Alignment device for fishing reel gears. 4,657,200, 4-14-87, Cl. 242-84.10R.
Parzefall, Walter, to INA Walzlager Schaeffler KG. Clutch release means. 4,648,500, 3-10-87, Cl. 192-99.00S.
Pas, Ireneus J. T. M.: *See*—
Dijkmeijer, H. E.; and Pas, Ireneus J. T. M., 4,669,599, Cl. 198-394.000.
Fierkens, Richardus H. J.; and Pas, Ireneus J. T. M., 4,710,094, Cl. 414-752.000.
Fierkens, Richardus H. J.; and Pas, Ireneus J. T. M., 4,712,994, Cl. 425-543.000.
Pas, Rene J. T. M. Method and composite article for cleaning molds. 4,670,329, 6-2-87, Cl. 428-283.000.
Pasar, Inc.: *See*—
Pecukonis, Joseph P., 4,642,556, Cl. 324-67.000.
Pecukonis, Joseph P., 4,686,454, Cl. 324-67.000.
Pascal, Jean-Claude, to Syntex (U.S.A.) Inc. N-phenyl-4-phenyl-1-piperazinecarboxamidines and related compounds as antiarrhythmic agents. 4,713,382, 12-15-87, Cl. 514-255.000.
Pascal, Jean-Pierre; Giovachini, Jean-Luc; and Crotzier, Jacques, to Etat Francais represente par le Delegue general pour l'armement. Device for regulating the speed of an asynchronous electric motor. 4,677,354, 6-30-87, Cl. 318-153.000.
Pascal, Robert: *See*—
Commeyras, Auguste; Taillades, Jacques; Brugidou, Jean; Mion, Louis; Sola, Regine; Pascal, Robert; Lasperas, Monique; and Rousset, Alain, 4,677,224, Cl. 562-557.000.
Pascal, Roger; and Girault, Denis, to Salomon S.A. Anti-friction device for ski binding. 4,657,279, 4-14-87, Cl. 280-636.000.
Pascal, Roger; and Dimier, Jean P., to Salomon S.A. Safety ski binding. 4,679,815, 7-14-87, Cl. 280-618.000.
Pascal, Roger; and Rullier, Pierre, to Salomon S.A. Ski binding. 4,684,147, 8-4-87, Cl. 280-628.000.
Pascal, Yves: *See*—
Holcblat, Alain H.; Sundheimer, Patrick; and Pascal, Yves, 4,648,354, Cl. 122-32.000.
Pascalide, Chiriac, to Radiant Illumination, Inc. Wireless emergency lighting unit. 4,682,078, 7-21-87, Cl. 315-86.000.
Pascaloff, John H., to Hall Surgical, division of Zimmer, Inc. Method and apparatus for providing sterile charged batteries. 4,641,077, 2-3-87, Cl. 320-2.000.
Pascaloff, John H., to Hall Surgical, division of Zimmer, Inc. Apparatus for translating rotational motion and torque. 4,641,551, 2-10-87, Cl. 74-785.000.
Pascarella, Vincent J.: *See*—
Solomon, Donald D.; McGary, Charles W.; and Pascarella, Vincent J., 4,642,242, Cl. 427-2.000.
Pasch, Manfred: *See*—
Edelmann, Hermann; Pasch, Manfred; Mann, Karlheinz; Sattler, Stephan; and Haar, Hans-Peter, 4,676,952, Cl. 422-72.000.
Klose, Sigmar; Pasch, Manfred; Schlumberger, Helmut; Kleemann, Wolfgang; and Vieth, Friedhelm, 4,690,899, Cl. 436-45.000.
Pasch, Nicholas F.; and Hubbard, James L., to LSI Logic Corporation. Mask alignment system. 4,652,134, 3-24-87, Cl. 356-401.000.
Pasch, Nicholas F., to LSI Logic Corporation. Planarized process for forming vias in silicon wafers. 4,708,770, 11-24-87, Cl. 156-662.000.
Paschal, James H., Jr.; Freiman, Oscar H.; and Kernal, Dickie L., to Otis Engineering Corporation. Removable side pocket mandrel. 4,685,523, 8-11-87, Cl. 166-378.000.
Paschke, Hanns-Dieter: *See*—
Doege, Joachim; Paschke, Hanns-Dieter; and Tran, Ke D., 4,659,278, Cl. 414-680.000.
Doege, Joachim; Paschke, Hanns-Dieter; and Tran, Ke D., 4,666,364, Cl. 414-742.000.
Paschke, Reinhard: *See*—
Demus, Dietrich; Zaschke, Horst; Paschke, Reinhard; and Wiegeleben, Adalbert, 4,668,426, Cl. 252-299.610.
Paschke, Werner: *See*—
Jaggle, Gunther; Kubach, Hans; and Paschke, Werner, 4,666,087, Cl. 239-451.000.
Kienzle, Wolfgang; Paschke, Werner; Sauer, Rudolf; and Knapp, Heinrich, 4,650,122, Cl. 239-497.000.
Pascik, Imre: *See*—
Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,634,672, Cl. 435-182.000.
Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,681,851, Cl. 435-262.000.
Pasco Laboratories, Inc.: *See*—
Naylor, Harry B., 4,680,269, Cl. 435-301.000.
Naylor, Harry B., 4,701,412, Cl. 435-30.000.
Pasco, Wayne D.; and Arendt, Ronald H., to General Electric Company. Process for cofiring structure comprised of ceramic substrate and refractory metal metallization. 4,678,683, 7-7-87, Cl. 427-123.000.

Pasco, Wayne D.: *See*—
Charles, Richard J.; Mitoff, Stephan P.; and Pasco, Wayne D., 4,684,446, Cl. 204-15.000.

Pascoe, Graham; Todd, Frank; and Kidd, Thomas F., to Fry's Metals Limited. Apparatus for casting metal alloys having low melting points. 4,676,296, 6-30-87, Cl. 164-303.000.

Pascoe, James R.: *See*—
Vasconcellos, Stephen R.; Najjar, Mitri S.; and Pascoe, James R., 4,657,702, Cl. 252-373.000.

Pascolini, Robert M.: *See*—
DePolo, Anthony R.; and Pascolini, Robert M., 4,652,369, Cl. 210-169.000.

Pascone, John M., to Ortho Pharmaceutical Corporation. Method for the production of crystalline amino-protected-beta-benzyl-L-aspartic acid, 4,713,480, 12-15-87, Cl. 560-157.000.

Pasdeloup, Jacques: *See*—
Maures, Michel; Pasdeloup, Jacques; and Lespinasse, Patrick, 4,705,655, Cl. 264-3.400.

Pasdera, Leonard A.: *See*—
Lemoine, Maurice G.; and Pasdera, Leonard A., 4,651,232, Cl. 360-9.100.

Pasek, Eugene A.: *See*—
Lopez, Jaime; and Pasek, Eugene A., 4,710,486, Cl. 502-219.000.

Paseri, Jacques, to Recherches et Etudes d'Optique et de Sciences Connexes. Reduced-weight mirror. 4,678,293, 7-7-87, Cl. 350/609.000.

Pasetti, Mauro: *See*—
Murari, Bruno; Pasetti, Mauro; and Rossetti, Nazzareno, 4,714,897, Cl. 330/288.000.

Pasierb, John J., Jr.; Nieto, Augustine; Andrus, Bryan; Kolomayets, George; Oglesby, Gary; and Ryan, Allen, to Bally Manufacturing Corporation. Rowing machine with video display. 4,674,741, 6-23-87, Cl. 272-72.000.

Pasilac A/S. *See*—
Skovhauge, Erik; and Simonsen, Karl, 4,655,127, Cl. 99-455.000.

Pasini, Franco; and Anelli, Pietro, to Societa Cavi Pirelli S.p.A. Hydrogen fixing fillers for optical fiber cables and components and cables and components containing such filler. 4,688,889, 8-25-87, Cl. 350/96.230.

Pasinski, Ralph R.; Ayers, Sammy L., Jr.; and Kocmond, Warren C., Jr., to Nobell Inc. Personalized telephone signaling circuitry and device, and methods of constructing and utilizing same. 4,707,855, 11-17-87, Cl. 379-376.000.

Paston, Merlyn: *See*—
Armbruster, David R.; and Paston, Merlyn, 4,677,187, Cl. 528-232.000.

Paske, Richard, Jr.; Pallmer, Michael; and King, William L., Jr., to Bell & Howell Company. Removable guidepath for automated guidance vehicles. 4,707,297, 11-17-87, Cl. 252-301.160.

Paske, William C., to NL Industries, Inc. System for simultaneous gamma-gamma formation density logging while drilling. 4,698,501, 10-6-87, Cl. 250-265.000.

Paskow, Herbert: *See*—
Spiewak, Martin H.; and Paskow, Herbert, 4,669,459, Cl. 128-136.000.

Paskowski, Frank J., Jr.: *See*—
Prairie, Robert S.; and Paskowski, Frank J., Jr., 4,706,900, Cl. 241-121.000.

Paskus, Anthony: *See*—
Grant, Ralph M.; Haskell, Richard E.; Paskus, Anthony; Windeler, Stanley R.; and Wright, Forrest S., 4,690,552, Cl. 356-35.500.

Pastean, James H.; and Steele, Charles S., to Texaco Inc. Decolorizing ethanolamines with alkylene oxides. 4,673,762, 6-16-87, Cl. 564-497.000.

Paspek, Stephen C., to Standard Oil Company, The. Stabilization of coal-oil-water mixtures. 4,670,019, 6-2-87, Cl. 44-51.000.

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Pasternak, Eliezer, to Joytronix, Inc. Food imprinting cassette means. 4,670,271, 6-2-87, Cl. 426-90.000.

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Pate, Ebb W., to Clairson International Corporation. Wall-mounted shelf support clip. 4,646,998, 3-3-87, Cl. 248-250.000.

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Patel, Chandrakant B., to RCA Corporation. Vertical detail enhancer. 4,663,653, 5-5-87, Cl. 358-11.000.

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Pauliny, Ferdinand: *See*—
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Pauliukonis, Richard S. Re-chargeable servo cylinder. 4,667,780, 5-26-87, Cl. 188-300.000.
Paulin, Dale W. Antenna post base support and method of installing same. 4,706,921, 11-17-87, Cl. 248-545.000.
Pauls, Matthias; and Miczka, Lothar, to Miczka, Lothak. Container, particularly a pressure can for discharging single or multiple component substances. 4,651,899, 3-24-87, Cl. 222-130.000.
Paulsen, Al W. Foldable eyeglasses. 4,681,410, 7-21-87, Cl. 351-63.000.
Paulsen, Dean R., to General Scanning, Inc. Two-element angular positive sensor for rotatable shaft. 4,673,876, 6-16-87, Cl. 324-208.000.
Paulsen, Gary; and Thomas, Lawrence E., to Spraying Systems Co. Liquid dispensing gun. 4,650,099, 3-17-87, Cl. 222-263.000.
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Paulson, Rollie W. Speaker cabinet having interactive speaker. 4,635,748, 1-13-87, Cl. 181-145.000.
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Pauly, Wayne, to Ling Electronics, Inc. Shaker table amplifier. 4,700,148, 10-13-87, Cl. 331-154.000.
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Paur, Konrad: *See*—
Brumme, Gerhard; and Paur, Konrad, 4,703,490, Cl. 372-86.000.
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Paurat, Friedrich W.; and Paurat, Roland. Excavator, particularly for continuous strip mining of minerals. 4,695,098, 9-22-87, Cl. 299-64.000.
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Paus, Hermann: *See*—
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Paust, Joachim: *See*—
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Gehrken, Henning-Peter; Ernst, Hansgeorg; and Paust, Joachim, 4,645,845, Cl. 549-407.000.
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er, Donald E.; Pavia, Michael R.; and Hershenson, Fred M., 677,112, Cl. 514-312.000.
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Anthony M.; and Anderson, Kevin J., to Texas Instruments porated. Single balanced self-oscillating dual gate FET mixer 440, 4-14-87, Cl. 455-324.000.
John J.; and Nestor, Charles R., to General Motors Corpora- Electrical connector having a funnel wrap wire crimp barrel 911, 2-10-87, Cl. 339-276.00T.
George A., to Litton Systems, Inc. Stable fiber optic polarizer 235, 5-19-87, Cl. 350-96.150.
George A., to Litton Systems, Inc. Electrically switched fiber directional coupler. 4,679,894, 7-14-87, Cl. 350-96.150.
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Michael J., to Budd Company, The. Flexible transom con- between side frames of a railway truck to provide equaliza- 633,786, 1-6-87, Cl. 105-203.000.
Michael J., to Budd Company, The. Portable stacking contain- king device. 4,648,764, 3-10-87, Cl. 410-77.000.
Michael J., to Budd Company, The. Means and method for g a tubular member to a side frame of a rail car truck. 83, 3-31-87, Cl. 228-182.000.
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as, Paul F.; Servas, Francis M.; Pavlov, Todor; and Kelly, ven G., 4,642,089, Cl. 604-4.000.

Pavlovec, Radko: *See*—
Himmetsberger, Alois; Pavlovec, Radko; Wittmann, Heinz; Wuerthner, Hubert; Szasz, Tibor; Liedl, Kurt; and Erdei, Roland, 4,681,339, Cl. 280-633.000.
Pavlovsky, Rudolf: *See*—
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Pavur, Carol P., to Chrysler Motors Corporation. Grommet with angularly positionable tubular portion. 4,685,173, 8-11-87, Cl. 16-2.000.
Pavy, Michel; and Genty, Alain, to Nortene. Apparatus for making a tubular sheath of plastic material. 4,636,162, 1-13-87, Cl. 425-290.000.
Pawelek, Bernd-Christian, to Teldix GmbH. Method for navigating vehicles, particularly land vehicles. 4,680,715, 7-14-87, Cl. 364-449.000.
Pawelek, John M., to Yale University. Composition and method for treatment of melanomas. 4,695,449, 9-22-87, Cl. 424-1.100.
Pawelski, Robert L., to AT&T Bell Laboratories. Digital video transmission system. 4,716,453, 12-29-87, Cl. 358-13.000.
Pawelzik, Manfred: *See*—
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Pawl, E. Timothy, to Pawl Inventioneering Corporation. Garment carrier. 4,645,106, 2-24-87, Cl. 224-313.000.
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Rosenfeld, Jerold C.; and Pawlak, Joseph A., 4,680,371, Cl. 528-179.000.
Schwartz, Willis T.; and Pavlak, Joseph A., 4,697,023, Cl. 549-241.000.
Pawlek, Rudolf: *See*—
Scharpey, Wilhelm; and Pawlek, Rudolf, 4,683,046, Cl. 204-243.00R.
Pawling Corporation: *See*—
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Pawling, Daniel F.: *See*—
Martin, Andrew McG.; Meyers, Kenneth C.; and Pawling, Daniel F., 4,682,976, Cl. 493-206.000.
Pawling Rubber Corporation: *See*—
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Pawloski, Chester E.; and Kruper, William J., Jr., to Dow Chemical Company, The. Trihalovinyl polyol ethers. 4,668,710, 5-26-87, Cl. 521-171.000.
Pawloski, Chester E.; Wampfler, David J.; and Fielding, Donna J., to Dow Chemical Company, The. (Haloneocarbyl substituted)-bis(aliphatic hydrocarbyl)phosphorates with polyurethanes. 4,686,241, 8-11-87, Cl. 521-107.000.
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Pawloski, Curtis H.: *See*—
Rangwala, Badrudden K.; Rodocker, Frank A.; Pawloski, Curtis H.; and Joosten, Richard L., 4,683,701, Cl. 53-167.000.
Pawloski, James C.: *See*—
McCreedy, Kathleen M.; Keskkula, Henno; Pawloski, James C.; and Yonkers, Edward H., 4,678,833, Cl. 525-66.000.
Pawlosky, Anthony J. Saw sharpening apparatus. 4,711,142, 12-8-87, Cl. 76-37.000.
Pawlowski, Michael: *See*—
Beebe, Cedric H.; McDavid, Larry S.; and Pawlowski, Michael, 4,705,617, Cl. 204-402.000.
Pawlowski, Norman E.: *See*—
Hackleman, David E.; and Pawlowski, Norman E., 4,694,302, Cl. 346-1.100.
Pawlowski, Thomas D.: *See*—
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Pawson, Ian W. N.: *See*—
King, Nigel J. R.; Pawson, Ian W. N.; Baker, Michael P.; Shaddock, Robert N.; and Stansfield, Edward V., 4,639,733, Cl. 342-424.000.
Paxton, Harold G. Tow apparatus and method of install¹station. 4,641,597, 2-10-87, Cl. 114-253.000.
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Jacobs, Alphonse F.; and Paxton, James R., 4,711,294, Cl. 165-19.000.
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Paxton, Ronald B., to Morton Thiokol, Inc. High propellant mass fraction highly stress relieved end-burning grain structure. 4,696,233, 9-29-87, Cl. 102-287.000.
Pay, Christopher C., to Crop Control Products Limited. Electrostatic spraying apparatus. 4,679,735, 7-14-87, Cl. 239-708.000.
Payen, Jean-Noel; and Thomas, Francis, to Carpano & Pons. Programmer. 4,653,343, 3-31-87, Cl. 74-568.00T.
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Payet, George L.; and Ballard, Stephen C., to Springs Industries, Inc. Woven textile fabric having an ultrasonically cut and sealed edge and apparatus and process for producing same. 4,693,771, 9-15-87, Cl. 156-73.300.

Payeur, Marcel, to Forano, Inc. Log debarking machine. 4,653,561, 3-31-87, Cl. 144-340.000.

Payn, Ward J., to f.m.e. Corporation. Modular universal postage meter. 4,644,142, 2-17-87, Cl. 235-101.000.

Payn, Ward J.; and Niemi, Onni W., to f.m.e. Corporation. Postage meter printhead assembly. 4,656,341, 4-7-87, Cl. 235-101.000.

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Payne, David G., to Tektronix, Inc. Probe cable assembly. 4,716,500, 12-29-87, Cl. 361-398.000.

Payne, David N.: *See—*
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Payne, Donald W.; and Hemp, Bruce, to Payne, Donald W. Three-phase ac to dc power converter with power factor correction. 4,680,689, 7-14-87, Cl. 363-26.000.

Payne, Earl R., to ICI Americas Inc. Field measuring system. 4,635,207, 1-6-87, Cl. 364-484.000.

Payne, Earl R., to ICI Americas Inc. Alarm packet system. 4,639,716, 1-27-87, Cl. 340-571.000.

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Payne, George C., to Teknetics, Inc. Target-identifying metal detector. 4,677,384, 6-30-87, Cl. 324-329.000.

Payne, Gerald: *See—*
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Payne, Kathryn L., to Dowell Schlumberger Incorporated. Control of crosslinking reaction rate using organozirconate chelate crosslinking agent and aldehyde retarding agent. 4,702,848, 10-27-87, Cl. 252-8.551.

Payne, LeRoy. Apparatus for molding. 4,671,753, 6-9-87, Cl. 425-4.00R.

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Keklak, Ronald; Couture, Michael V.; Whitehouse, John C.; and Payne, Marshall W., 4,680,571, Cl. 340-52.00R.

Payne, Marvin G.; Thonnard, Norbert; and Hurst, George S., to Atom Sciences, Inc. Double pulsed time-of-flight mass spectrometer. 4,694,167, 9-15-87, Cl. 250-282.000.

Payne, Peter, to Honeywell Inc. Drive train system. 4,660,428, 4-28-87, Cl. 74-104.000.

Payne, Peter, to Honeywell Inc. Sliding crank actuator. 4,704,912, 11-10-87, Cl. 74-89.150.

Payne, Peter P.; and Pienta, William T., to Honeywell Inc. Simplified demand limit control. 4,694,192, 9-15-87, Cl. 307-39.000.

Payne, Randall K.; and Nord, Russell H., to Norland Corporation. Digital waveform processing oscilloscope with distributed data multiple plane display system. 4,634,970, 1-6-87, Cl. 324-121.00R.

Payne, Richard: *See—*
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Payne, Richard S., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Ion implanted CMOS devices. 4,684,971, 8-4-87, Cl. 357-42.000.

Payne, Ronald G.: *See—*
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Payne, Thomas H.: *See—*
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Payne, Thomas R., to General Electric Company. Diagnostic testing arrangement for an electric cooking appliance incorporating commutated relay switching circuits. 4,634,842, 1-6-87, Cl. 219-486.000.

Payne, Thomas R., to General Electric Company. Dual mode power control arrangement for cooking appliance. 4,634,843, 1-6-87, Cl. 219-486.000.

Payne, Thomas R., to General Electric Company. Temperature sensor failure detection system for cooking appliance. 4,639,578, 1-27-87, Cl. 219-450.000.

Payne, Thomas R., to General Electric Company. Boil point prediction arrangement for cooking appliance. 4,665,292, 5-12-87, Cl. 219-450.000.

Payne, Thomas R., to General Electric Company. Power control arrangement for automatic surface unit. 4,692,596, 9-8-87, Cl. 219-450.000.

Payne, William A., III, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Nonblocking self-routing packet and circuit switching network. 4,696,000, 9-22-87, Cl. 370-60.000.

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Payne, William J., to Crown Creative Industries. Non-rotatable telescoping assembly. 4,686,613, 8-11-87, Cl. 362-413.000.

Payne, William J., Jr.: *See—*
Coggin, Joseph H., Jr.; and Payne, William J., Jr., 4,686,180, Cl. 435-7.090.

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Paynton, Richard D. Method of manufacturing a filter. 4,643,797, 2-17-87, Cl. 156-101.000.

Payre, Didier; Crozat, Georges; and Spinner, Bernard, to Societe Nationale Elf Aquitaine. Three-phase heat pump. 4,682,476, 7-28-87, Cl. 62-480.000.

Paysan, Heinz-Wilhelm: *See—*
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Payson, J. Scott: *See—*
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Payton, Hugh W. Oxygen delivery and administration system. 4,660,555, 4-28-87, Cl. 128-207.180.

Payview Limited: *See—*
Thompson, John R.; Hunting, Curtis J.; Masson, Ronald K.; and Trivelpiece, Craig E., 4,716,588, Cl. 380-20.000.

Paz de Araujo, Carlos: *See—*
McMillan, Larry; Paz de Araujo, Carlos; and Rohrer, George A., 4,713,157, Cl. 204-192.110.

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Paz, Mercedes: *See—*
Gallop, Paul M.; and Paz, Mercedes, 4,659,817, Cl. 540-541.000.

Pazandak, Bradford B. Rotating surgical cutting knife. 4,708,138, 11-24-87, Cl. 128-305.000.

Pazarci, Melih: *See—*
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LoCicero, Joseph L.; Pazarci, Melih; and Rzeszewski, Theodore S., 4,694,328, Cl. 358-21.00V.

Pazeotopoulos, Chris C. Tie holder. 4,655,375, 4-7-87, Cl. 223-85.000.

Pazirandeh, Said: *See—*
Kaplan, David G.; Pazirandeh, Said; Alvarado, Mario M.; and Attal, Lucien, 4,668,446, Cl. 264-1.700.

Pazzaglia, Luigi, to Cetin S.p.A. Monitoring facility for electric welding equipment, in particular as used for metal box manufacture. 4,714,816, 12-22-87, Cl. 219-109.000.

PCB Controls Public Limited Company: *See—*
Byrne, Peter C.; and McCann, Gerard, 4,700,304, Cl. 364-426.000.

PCB Sandpiper, Inc.: *See—*
Byker, Harlan J., 4,659,443, Cl. 204-131.000.
Mazur, Duane J.; and Weinberg, Norman L., 4,702,804, Cl. 204-73.00R.

PCC Airfoils, Inc.: *See—*
Graham, Lawrence D., 4,667,728, Cl. 164-129.000.

PCL Packaging Ltd: *See—*
Piggott, David C., 4,636,191, Cl. 493-227.000.

PDA Engineering: *See—*
Mack, Thomas E., 4,648,802, Cl. 416-244.00A.

Peabody Engineering Corporation: *See—*
Bozai, Mohammed Z., 4,643,669, Cl. 431-202.000.

Peabody Noise Control, Inc.: *See—*
Eberhart, Laurence L.; and Holben, Larry B., 4,685,259, Cl. 52-144.000.
Fearon, William W.; and Macy, Arnel M., 4,641,726, Cl. 181-292.000.
Fearon, William W.; Eberhart, Laurence L.; Millspaugh, Rick G.; and Holben, Larry B., 4,699,836, Cl. 428-73.000.

Peabody, Ralph C.; and Grimes, Charles E., to Tennant Company. Belt drive. 4,634,403, 1-6-87, Cl. 474-1.000.

Peachee, C. Theodore; and Crow, William D., to Emerson Electric Co. Modified switch assembly for electrical machinery. 4,670,631, 6-2-87, Cl. 200-80.00R.

Peachtree Doors, Inc.: *See—*
Governale, Bernard C., 4,665,663, Cl. 52-456.000.
Governale, Bernard C., 4,691,477, Cl. 49-380.000.
Governale, Bernard C., 4,707,963, Cl. 52-741.000.

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Pearce, Andrew: *See—*
Clitherow, John W.; Bradshaw, John; Mackinnon, John W. M.; Judd, Duncan B.; Bays, David E.; Hayes, Roger; and Pearce, Andrew, 4,670,448, Cl. 514-334.000.

Pearce, Arthur W. Bale loader. 4,634,336, 1-6-87, Cl. 414-546.000.

Pearce, Frank G., to Thornton-Denena Industries. Fishing lure. 4,674,223, 6-23-87, Cl. 43-26.200.

Pearce, George W. Wind controlled spraying. 4,697,737, 10-6-87, Cl. 239-67.000.

Pearce, Glenn T.: *See—*
Myers, Drewfus Y., Jr.; Alexandrovich, Peter S.; Pearce, Glenn T.; Santilli, Domenic; Sreekumar, Chandrasekha; Berwick, Martin A.; Upson, Donald A.; and Goebel, William K., 4,708,923, Cl. 430-112.000.

old B.; and West, Lynn P., to International Business Machines Corporation. Carrier recovery of modulated signals. 4,712,221, Cl. 375-14.000.

rey B. *See*—

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Paul M.; and Pearce, Jeffrey B., 4,634,110, Cl. 371-11.000.

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Jattnbabu B.; Hinkle, Stanley J.; and Pearce, John F., ,439, Cl. 123-52.0MV.

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k, Frederick E., III; and Pearce, Kyle R., 4,661,116, Cl. 2.000.

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k, Dyer A.; Lichtel, Richard L., Jr.; and Pearce, Lawrence ,702,000, Cl. 437-63.000.

Glenn, to Teledyne Industries, Inc. Two stage fuel pump.), 10-20-87, Cl. 123-383.000.

illip W. *See*—

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owski, James P. and Pearce, Phillip W., 4,683,380, Cl. 548.000.

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rah L. *See*—

Robert D.; Pearce, Sarah L.; and Rossi, Albert, 4,713,088, Cl. 52.000.

homas M. *See*—

William C.; Pellerin, Norvin L.; Rodboon, Somsak S.; and rce, Thomas M., 4,640,024, Cl. 34-133.000.

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ean A.; and Pung, Thomas F., to Dana Corporation. Clutch y for a diesel engine blower. 4,694,946, 9-22-87, Cl. 192-

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avid R., to Gerber Garment Technology, Inc. Method and us for working on sheet material. 4,665,619, 5-19-87, Cl. 00.

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, Gordon W.; and Carlson, Steven B., to Lightolier Incorpo- Microcomputer-controlled light switch. 4,649,323, 3-10-87, Cl. 7.000.

, Jay S. *See*—

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, David J.; and Meistrick, Zdenek S., to Jacobs Manufacturing any, The. Braking boost pressure modulator and method. 384, 8-25-87, Cl. 60-600.000.

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James N.: *See*—

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Richard H., Jr., to American Standard Inc. Stepped capacity nt volume building air conditioning system. 4,679,411, 7-14-87, -519.000.

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ning, Hubert L.; Edd, Jon F.; Pearson, Alan; Chou, Chinliang; Kono, Hisashi O.; and Huang, Ching-Chung, 4,704,378, l. 502-355.000.

, Allan: *See*—

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kwill, Peter H.; Bishop, David I.; Pearson, Andrew D.; Sage, an C.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and McDonnell, Damien G., 4,695,131, Cl. 350-350.00R.

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ooks, Thomas W.; Masseth, David A.; Malecka, Joseph R.; Stiver, C. Edward; Pearson, Charles S.; and Fox, James D., ,703,643, Cl. 72-402.000.

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Pearson, Derek P. A.: *See*—

Coupland, Duncan R.; and Pearson, Derek P. A., 4,662,920, Cl. 65-15.000.

Pearson, Douglas H.; and Spencer, John E., to Eastman Kodak Company. Demetering cam for a disk camera. 4,676,620, 6-30-87, Cl. 354-121.000.

Pearson, Glenn A. Fire retardant composition. 4,663,239, 5-5-87, Cl. 428-524.000.

Pearson, Michael J., to Kaiser Aluminum & Chemical Corporation. Promoted scavenger for purifying HCl-contaminated gases. 4,639,259, 1-27-87, Cl. 55-71.000.

Pearson, Michael J.: *See*—

Ponsford, Roger J.; Pearson, Michael J.; and Finch, Stephen C., 4,647,558, Cl. 514-210.000.

Ponsford, Roger J.; Pearson, Michael J.; and Finch, Stephen C., 4,678,782, Cl. 514-210.000.

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Pearson, Norman R.; and Kleschick, William A., to Dow Chemical Company, The. Sulfonamides derived from substituted 2-amino-1,2,4-triazolo[1,5-a]-1,3,5-triazines and compositions and methods of controlling undesired vegetation. 4,685,958, 8-11-87, Cl. 71-93.000.

Pearson, Richard D.: *See*—

Jagger, Janine C.; Pearson, Richard D.; and Guyenet, Patrice G., 4,676,783, Cl. 604-171.000.

Pearson, Richard K.; Bystroff, Roman I.; and Miller, Dale E., to United States of America, Energy. Boron hydride polymer coated substrates. 4,701,379, 10-20-87, Cl. 428-427.000.

Pearson, Robert E. Means and method for color separation and for reproduction. 4,668,078, 5-26-87, Cl. 355-32.000.

Pearson, Stanley R.: *See*—

Peters, Bruce C.; Mayes, M. Dale; Gross, Richard M.; and Pearson, Stanley R., 4,653,677, Cl. 222-591.000.

Pearson, Willard. Chain sickle. 4,656,819, 3-14-87, Cl. 56-291.000.

Pearson, William T.: *See*—

Graham, Walker O.; and Pearson, William T., 4,678,012, Cl. 139-1.00C.

Peascoe, Warren J.: *See*—

Hunter, Byron A.; Rowland, Donald G.; and Peascoe, Warren J., 4,634,721, Cl. 521-92.000.

Pease, Charles C.: *See*—

Raycher, Robert J.; Pease, Charles C.; and Bernd, Kevin T., 4,660,343, Cl. 52-378.000.

Raycher, Robert J.; and Pease, Charles C., 4,705,424, Cl. 403-266.000.

Pease, Donald L., to Xerox Corporation. Control for retracting the cleaning blade of a reproduction or printing machine when the machine is not in use. 4,639,122, 1-27-87, Cl. 355-15.000.

Pease, Donald L., to Xerox Corporation. Fiber lens array mounting in reproduction machines. 4,653,894, 3-31-87, Cl. 355-1.000.

Pease, Donald L.: *See*—

Yarbrough, Joseph A.; Kingsland, David O.; and Pease, Donald L., 4,693,588, Cl. 355-3.00R.

Pease, Eugene D., to S & K Products, Inc. Downrigger up stop. 4,667,892, 5-26-87, Cl. 242-106.000.

Pease Industries, Inc.: *See*—

Bursk, William M., 4,644,696, Cl. 49-367.000.

Bursk, William M., 4,662,112, Cl. 49-380.000.

Pease, Robert A., to National Semiconductor Corporation. Integrated circuit trimming. 4,665,356, 5-12-87, Cl. 323-314.000.

Pease, Robert A., to National Semiconductor Corporation. Isolation diffusion process monitor. 4,701,779, 10-20-87, Cl. 357-48.000.

Pease, Robert E. Control system for longwall shearer. 4,634,186, 1-6-87, Cl. 299-1.000.

Pease, William M.: *See*—

Byington, Roy E.; and Pease, William M., 4,713,794, Cl. 365-45.000.

Pebco, Inc.: *See*—

France, Rodney C., 4,659,274, Cl. 414-21.000.

Pebre, Thierry, to Compagnie Industrielle de Mecanismes en abrege C.I.M. Mechanism for assisting the closing of a door of a motor vehicle. 4,667,991, 5-26-87, Cl. 292-201.000.

Pebre, Thierry: *See*—

Chevance, Claude; and Pebre, Thierry, 4,657,523, Cl. 474-101.000.

Pebsworth, Lloyd: *See*—

Hwang, Yu-Tang; Pebsworth, Lloyd; Dombro, Robert A.; and Hoff, Raymond E., 4,634,744, Cl. 526-84.000.

Pecak, Matthew L.: *See*—

Hofer, Dean A.; Carlson, Daniel J.; and Pecak, Matthew L., 4,697,192, Cl. 343-895.000.

Pecastaings, Serge: *See*—

Carratt, Michel; Hakoun, Roland; Maurel, Jean-Joseph; Pecastaings, Serge; and Repain, Pascal, 4,688,891, Cl. 350-96.240.

Pecen, Jiri, to Tencor Instruments. Particle position correlator and correlation method for a surface scanner. 4,641,967, 2-10-87, Cl. 356-237.000.

Pech, Gregory J., to United States of America, Air Force. Liquid crystal non-destructive inspection of non-ferrous metals. 4,668,916, 5-26-87, Cl. 324-456.000.

Pech, Winfried, to Pfaff Industriemaschinen GmbH. Sewing machine with revolving stitch regulator and display device. 4,644,887, 2-24-87, Cl. 112-315.000.

Pecha, Ernst; Trost, Rudolf; Gneiting, Rudi; and Dieterich, Karl-Eberhard, to Bielomatik Leuze GmbH & Co. Cutting tool for making holes. 4,645,390, 2-24-87, Cl. 408-233.000.

Pechany, Eva C.: *See*—
Szemler, Laszlo; Pechany, Eva C.; Langer, Maria; Hruby, Gyula; and Sike, Valeria, 4,659,661, Cl. 435-86.000.
Pechar, Franz, to Iveco Magirus AG. Tire pressure regulating unit. 4,708,184, 11-24-87, Cl. 152-417.000.
Pechar, Henry W., Jr.; and Sproch, James D., to Standard Microsystems Corp. Virtual ground read only memory. 4,638,459, 1-20-87, Cl. 365-104.000.
Pecheux, Jean-Claude R., to Compagnie Generale de Material Orthopedique. Re-education apparatus for the articulated segments of the hand. 4,679,548, 7-14-87, Cl. 128-26.000.
Pechiney: *See*—
Armand, Marcel; and Garnier, Jean-Pierre, 4,657,643, Cl. 204-64.00R.
Armand, Marcel; and Garnier, Jean-Pierre, 4,675,084, Cl. 204-64.00R.
Cohen, Joseph; and Lorthiour, Gerard, 4,686,025, Cl. 204-245.000.
Pecht, Israel; and Mazurek, Nachman, to Yeda Research and Development Co., Ltd. DSCG binding protein and process for preparing same. 4,683,135, 7-28-87, Cl. 424-85.000.
Pechter, David S.: *See*—
Dreibelbis, John D.; Pechter, David S.; and Bernosky, Philip J., 4,653,681, Cl. 228-4.500.
Pechuzal, Georges A.: *See*—
Dodge, John L.; Bush, Duane B.; Pechuzal, Georges A.; and Ravindranath, Ambrish, 4,678,398, Cl. 415-181.000.
Pecis, John G.: *See*—
Carter, Robert J.; and Pecis, John G., 4,704,767, Cl. 16-388.000.
Peck, Alexander N., II: *See*—
Leib, Kenneth G.; Peck, Alexander N., II; and Jue, Suey, 4,703,994, Cl. 350-375.000.
Peck, Carl C., to United States of America, Army. Dermal substance collection device. 4,706,676, 11-17-87, Cl. 128-632.000.
Peck, Donald R.: *See*—
Brown, Douglas P.; Peck, Donald R.; and Burrough, Donald L., 4,646,850, Cl. 172-551.000.
Peck, Douglas J.: *See*—
Spigarelli, Donald J.; Peck, Douglas J.; and Finney, James L., 4,685,605, Cl. 228-37.000.
Spigarelli, Donald J.; Peck, Douglas J.; and Finney, James L., 4,697,730, Cl. 228-37.000.
Peck, John C.: *See*—
Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S.; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., 4,663,706, Cl. 364-200.000.
Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S., III; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., 4,667,287, Cl. 364-200.000.
Peck, Lawrence B., to Amoco Corporation. Recovery of a carbonaceous liquid with a low fines content. 4,699,709, 10-13-87, Cl. 208-390.000.
Peck, Michael C.; and Jacobi, Dennis M., to Union Camp Corporation. Aqueous printing ink. 4,648,905, 3-10-87, Cl. 106-24.000.
Peck, Paul L., to Archery Designs, Inc. Limb structure for archery bows. 4,644,929, 2-24-87, Cl. 124-24.00R.
Peck, Paul L., to Tru Fire Corporation. Bow string release. 4,674,469, 6-23-87, Cl. 124-35.00A.
Peck, Paul L., to Archery Designs, Inc. Bow string release. 4,691,683, 9-8-87, Cl. 124-35.00A.
Peck, Peter F.: *See*—
Wedgwood, Francis A.; Peck, Peter F.; and Stevens, Michael P., 4,642,687, Cl. 358-110.000.
Peck, Richard M. Device and method for tying a twisted clinch knot. 4,714,281, 12-22-87, Cl. 289-1.500.
Peck, Stephen R.: *See*—
Olson, Jeffrey J.; Peck, Stephen R.; and Seaton, David P., 4,679,189, Cl. 370-60.000.
Peck, Walter R.: *See*—
Miseyko, George; Peck, Walter R.; and Chase, Ronald G., 4,637,577, Cl. 244-147.000.
Peck, Wilbur M., Jr.: *See*—
Wallace, Stanley J.; Jedlicka, Josef E.; and Peck, Wilbur M., Jr., 4,641,949, Cl. 355-3.0SH.
Peckinpaugh, Frank L.: *See*—
Yates, Samuel L.; Peckinpaugh, Frank L.; Flower, Thomas A.; and Westmoreland, Michael K., 4,644,621, Cl. 28-247.000.
Peckman, Robert; and Karbassiyoon, Kamran, to ITT Corporation. Arrangement for removing glass soot from an exhaust tube during optical preform fabrication. 4,635,314, 1-13-87, Cl. 15-304.000.
Peco Controls Corporation: *See*—
Anderson, F. Allan; Chen, Henry C. J.; DiMucci, Vito A.; and Wang, Roger C., 4,691,496, Cl. 53-53.000.
Pecoraro, Theresa A.: *See*—
Jacobson, Allan J.; Chianelli, Russell R.; and Pecoraro, Theresa A., 4,650,563, Cl. 208-108.000.
Jacobson, Allan J.; Ho, Teh C.; Chianelli, Russel R.; and Pecoraro, Theresa A., 4,666,878, Cl. 502-221.000.
Pecsok, Roger L., to Penwalt Corporation. Foamable polyvinylidene fluoride and methods. 4,675,345, 6-23-87, Cl. 521-82.000.
Pecsok, Roger L., to Pennwalt Corporation. Foamable polyvinylidene fluoride and methods. 4,692,381, 9-8-87, Cl. 428-375.000.
Pecukonis, Joseph P., to Pasar, Inc. Tracing electrical conductors by high-frequency constant-energy-content pulse loading. 4,642,556, 2-10-87, Cl. 324-67.000.
Pecukonis, Joseph P., to Pasar, Inc. Conductor tracer with improved open circuit detection, close-range discrimination and directionality. 4,686,454, 8-11-87, Cl. 324-67.000.
Pedain, Josef; Konig, Klaus; and Schonfelder, Manfred, to Bayer Aktiengesellschaft. Polyester polyols and their use as polyol component in two-component polyurethane lacquers. 4,656,243, 4-7-87, Cl. 528-302.000.
Pedain, Josef; Konig, Klaus; and Schonfelder, Manfred, to Bayer Aktiengesellschaft. Polyester polyols and their use as polyol component in two component polyurethane lacquers. 4,692,384, 9-8-87, Cl. 428-423.300.
Pedain, Josef: *See*—
Hohlein, Peter; Schmidt, Manfred; Pedain, Josef; Ribeni, Bernd; and Sonntag, Michael, 4,639,499, Cl. 526-285.000.
Konig, Klaus; Pedain, Josef; and Woynar, Helmut, 4,656,223, Cl. 524-871.000.
Thoma, Wilhelm; Noll, Klaus; Nachtkamp, Klaus; Pedain, Josef; and Schroer, Walter, 4,652,466, Cl. 427-244.000.
Thoma, Wilhelm; Pedain, Josef; Schroer, Walter; and Kling, Waldemar, 4,657,613, Cl. 156-238.000.
Thoma, Wilhelm; Pedain, Josef; and Schroer, Walter, 4,675,211, Cl. 427-208.800.
Pedall, Friedrich: *See*—
Edinger, Egon; and Pedall, Friedrich, 4,674,161, Cl. 29-25.350.
Peddinghaus, Carl Ulrich: *See*—
Stursberg, Bernd, 4,688,456, Cl. 83-368.000.
Wengenroth, Kurt; and Klaus, Siegfried, 4,635,512, Cl. 83-156.000.
Peddinghaus Corporation: *See*—
Magnuson, James M., 4,662,612, Cl. 266-48.000.
Magnuson, James M., 4,715,774, Cl. 414-751.000.
Peddinghaus, Rolf. Apparatus for baseline determination by height of rolled steel section. 4,664,566, 5-12-87, Cl. 408-13.000.
Peddinghaus, Rolf. Machine for processing structural shapes. 4,667,35[illegible] 5-26-87, Cl. 29-26.00A.
Peddinghaus, Rolf. Drilling apparatus for boring an array of holes in workpiece. 4,676,700, 6-30-87, Cl. 408-10.000.
Peddinghaus, Rolf. Method of sawing a steel structural shape having least one flange. 4,691,601, 9-8-87, Cl. 83-56.000.
Peddy, John T.: *See*—
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Pede AB: *See*—
Nordin, Inge, 4,637,105, Cl. 29-24.500.
Peden, Richard A.: *See*—
Ament, Frank; Peden, Richard A.; and Labuhn, Pamela [illegible] 4,653,315, Cl. 73-117.300.
Peder Smedvig Aksjeselskap: *See*—
Nieuwstad, Ronald L., 4,712,613, Cl. 166-53.000.
Pedersen, Allan S.: *See*—
Hansen, Henning M.; Jacobsen, Hans E.; Hansen, Henry; Lassith otakis, Konstantin; Pedersen, Allan S.; and Nyrup, John 4,641,537, Cl. 73-861.120.
Pedersen, Anders N. Continuous feed apparatus for staining specimens carried on slides. 4,651,671, 3-24-87, Cl. 118-57.000.
Pedersen, Arne L., to Pentalift Equipment Corporation. Hold-down mechanism for a dock leveller. 4,703,534, 11-3-87, Cl. 14-71.100.
Pedersen, Daniel E.; and Hatcher, Herbert J., to Ecolab Inc. Two component biocidal process. 4,684,469, 8-4-87, Cl. 210-632.000.
Pedersen, David; and Cupidro, Vincent N., to Hy-Meg Corporation. Method of manufacturing a film-type electronic device. 4,697,33[illegible] 10-6-87, Cl. 29-620.000.
Pedersen, Hans N. Method of establishing sealed pipe lengths of plastic pipes by joining of pipe elements, particularly district heating pipe lengths. 4,645,557, 2-24-87, Cl. 156-250.000.
Pedersen, Jack R.; and Thomassen, Per, to International Standard Electric Corporation. Fire resistant fiber optic cable. 4,653,85[illegible] 3-31-87, Cl. 350-96.230.
Pedersen, Johannes: *See*—
Jensen, Leif L., 4,674,594, Cl. 181-243.000.
Pedersen, Knud G.: *See*—
Klitgaard, Peter C.; and Pedersen, Knud G., 4,685,465, Cl. 128-635.000.
Pedersen, Kristen I., to Sofec, Inc. Subsea petroleum products storage system. 4,662,386, 5-5-87, Cl. 137-236.100.
Pedersen, Kristen I., to SOFEC, Inc. Mooring apparatus. 4,665,85[illegible] 5-19-87, Cl. 114-230.000.
Pedersen, Kristen I.: *See*—
Ethridge, Charles O.; and Pedersen, Kristen I., 4,647,077, Cl. 285-98.000.
Pedersen, Kurt B.: *See*—
Sperling, Bent P.; and Pedersen, Kurt B., 4,665,109, Cl. 523-206.000.
Pedersen, Matthew G.: *See*—
Dewey, James D.; Pedersen, Matthew G.; and Gonier, Larry W., 4,663,838, Cl. 29-751.000.
Pedersen, Morten C.; and Meylan, Jean-Jacques, to Constro S.A. Set of modular building construction elements. 4,688,362, 8-25-87, Cl. 52-227.000.
Pedersen, Niels C., to University of California, The Regents of the. Cline producing feline leukemia virus. 4,699,785, 10-13-87, Cl. 424-89.000.
Pedersen, Per: *See*—
Nyberg, Fred, 4,652,379, Cl. 210-717.000.
Pedersen, Poul H. H.: *See*—
Rasmussen, Ivar; and Pedersen, Poul H. H., 4,696,161, Cl. 60-384.000.

Pedersen, S. Erik; and Pfingsten, Linda L., to Standard Oil Company, The. Preparation of indenes. 4,677,238, 6-30-87, Cl. 585-469.000.

Pederson, Brian D.: *See*—
Salo, Rodney W.; and Pederson, Brian D., 4,686,987, Cl. 128-419.0PG.

Pederson, Leif K.: *See*—
Chan, Norman C.; and Pederson, Leif K., 4,653,085, Cl. 379-94.000.

Pederson, Loren K.; and Curtis, Richard A., to Branick Industries, Inc. Tire spraying apparatus. 4,669,417, 6-2-87, Cl. 118-44.000.

Pederson, Robert J.: Gallagher, Lawrence J.; Miller, Jack V.; Althaus, Lauren B.; Rubinstein, Benjamin; and Schomotolocha, Stephen N., to Loral Electro-Optical Systems, Inc. Surrogate weapon for weapons effects signatures. 4,664,631, 5-12-87, Cl. 434-16.000.

Pederson, Robert J.: *See*—
Gallagher, Lawrence J.; Althaus, Lauren B.; Pederson, Robert J.; and Rubinstein, Benjamin, 4,662,844, Cl. 434-16.000.

Pedgonay, John S. Rain gutter debris eliminator. 4,644,704, 2-24-87, Cl. 52-12.000.

Pedigo, Michael K. Carrier current transceiver. 4,701,945, 10-20-87, Cl. 379-66.000.

Pedigo, Michael K.: *See*—
Baker, William; Pedigo, Michael K.; Atkinson, Noel; and Shelton, Henry P., 4,706,274, Cl. 379-61.000.

Pefigrew, Colin, to Noru-on Corporation. Process and device for the application of a high-active absorber on a substrate. 4,675,209, 6-23-87, Cl. 427-194.000.

Pelneault, John A., to Aqua Strip Corporation. Water purification apparatus. 4,696,739, 9-29-87, Cl. 210-121.000.

Pelone, Alessandro, to Selenia Spazio SpA. Solid state relay for aerospace applications. 4,678,933, 7-7-87, Cl. 307-254.000.

Pelone, Jean-Marie: *See*—
Faurie, Andre; and Pelone, Jean-Marie, 4,665,600, Cl. 29-33.00K.

Pelotti, Antonio; and Ferrigno, Giancarlo, to Fondazione Pro Juventute Don Carlo Gnocchi. Modularly expansible system for real time processing of a TV display, useful in particular for the acquisition of coordinates of known shape objects. 4,706,296, 11-10-87, Cl. 382-42.000.

Pedrazzetti, Enea; Schmitter, Andre; and Meyer, Walter W., to Ciba-Geigy Corporation. Process for the stabilization of spherically polymerized polyolefins. 4,708,979, 11-24-87, Cl. 524-249.000.

Pedrazzi, Reinhard, to Sandoz Ltd. Basic azo and non-azo compounds having one or two disubstituted 1,3,5-triazine rings each of which is linked through a bridging radical to the 1-position of a pyrazole ring. 4,686,285, 8-11-87, Cl. 534-606.000.

Pedrazzi, Reinhard: *See*—
Dore, Jacky; and Pedrazzi, Reinhard, 4,670,546, Cl. 534-612.000.
Moser, Helmut; Greve, Manfred; Pedrazzi, Reinhard; and Wald, Roland, 4,673,735, Cl. 534-606.000.

Pedrazzi, Renato: *See*—
Aldrovandi, Mauro; Cianciavicchia, Domenico; and Pedrazzi, Renato, 4,702,675, Cl. 417-63.000.

Pedro, Brian A.: *See*—
Sicard, Stephen T.; Pedro, Brian A.; and Alden, Wayne S., III, 4,705,333, Cl. 439-71.000.

Pedu, Jeffrey C., to Placid Industries, Inc. Electromagnetic clutches and brakes. 4,681,197, 7-21-87, Cl. 192-21.500.

Peebles, Ann L.: *See*—
Wong, Mon N.; and Peebles, Ann L., 4,691,177, Cl. 333-113.000.

Peebles, Arthur K.: *See*—
Fulmer, Keith H.; and Peebles, Arthur K., 4,667,471, Cl. 60-545.000.
Fulmer, Keith H.; Peebles, Arthur K.; and Steininger, Hugh D., 4,681,196, Cl. 192-3.00H.

Peebles, John A.; and Swinton, James D., to NCR Corporation. Sheet feeding apparatus with cooperating endless belts. 4,697,944, 10-6-87, Cl. 400-635.000.

Peebles, John A., to NCR Corporation. Container and method for loading currency notes into a currency cassette. 4,704,061, 11-3-87, Cl. 414-405.000.

Peeck, Adolf: *See*—
Gross, Heinz; Koch, Friedrich-Otto; Peeck, Adolf; and Wennemann, Werner, 4,688,319, Cl. 29-523.000.

Peehs, Martin: *See*—
Assmann, Helmut; Dorr, Wolfgang; Maier, Georg; and Peehs, Martin, 4,655,978, Cl. 264-0.500.
Dorr, Wolfgang; Gradel, Gerhard; and Peehs, Martin, 4,671,904, Cl. 264-0.500.

Peek, Billy J., Jr. Cable system with suspended wind damper and method of installing a wind damper. 4,663,496, 5-5-87, Cl. 174-42.000.

Peek, Brian R.: *See*—
Gugle, James E.; and Peek, Brian R., 4,636,124, Cl. 411-82.000.

Peek, Gregory A. Wheelchair having adjustable backrest. 4,655,471, 4-7-87, Cl. 280-242.0WC.

Peek, Hermanus L., to U.S. Philips Corporation. Method of manufacturing a semiconductor device with overlapping strip electrodes. 4,700,459, 10-20-87, Cl. 437-53.000.

Peek, Ralf, to California Institute of Technology. Preuplift technique of anchoring a cylindrical liquid storage tank for lateral loadiag. 4,697,395, 10-6-87, Cl. 52-167.000.

Peeken, Heinz: *See*—
Heinrich, Juergen; Krauth, Axel; Victor, Karl-Heinz; and Peeken, Heinz, 4,714,257, Cl. 277-1.000.

Peek ia, Andres, to R. R. Donnelley & Sons Company. Magnetic cylinders with image plate or blanket for offset printing. 4,676,161, 6-30-87, Cl. 101-378.000.

Peel, Christopher J.; Evans, Brian; Harris, Samuel J.; Noble, Brian; and Dinsdale, Keith, to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Aluminum alloys. 4,636,357, 1-13-87, Cl. 420-532.000.

Peel, Robert M.; and Darner, John T. Golf practice device. 4,691,922, 9-8-87, Cl. 273-177.00B.

Peele, Camille; Harwood, Jon W.; and Resuggan, Peter L., to AP Industries, Inc. Clamp apparatus. 4,712,295, 12-15-87, Cl. 29-700.000.

Peele, Wayne L., to AMP Incorporated. Shielded electrical connector. 4,653,836, 3-31-87, Cl. 339-143.00R.

Peeler, Donald: *See*—
Tucker, Kevin M.; and Peeler, Donald, 4,712,540, Cl. 128-76.00R.

Peelle, Angela A.; and Vaughn, Charles G., Jr., to Clevepak Corporation. Device for suspending objects. 4,667,913, 5-26-87, Cl. 248-228.000.

Peeiman, Harold E., to Halliburton Company. Neutron generator ion source pulser. 4,657,724, 4-14-87, Cl. 376-119.000.

Peels, Antonius H. P. M., to U.S. Philips Corporation. Color display tube with overlapping field lens having a field correction plate. 4,668,892, 5-26-87, Cl. 313-414.000.

Peels, Antonius H. P. M., to U.S. Philips Corporation. Color display tube. 4,678,964, 7-7-87, Cl. 313-414.000.

Peemoller, Horst; and Svensson, Heino, to U.S. Philips Corporation. Device for producing x-y coordinate addresses for a picture screen. 4,697,049, 9-29-87, Cl. 178-18.000.

Peer, A. Dean, Jr., to Adolph Coors Company. Milk carton blank and milk carton with pour spout. 4,691,858, 9-8-87, Cl. 206-621.200.

Peer, Lydia: *See*—
Gold, Elijah J.; Babad, Esther; Peer, Lydia; and Chang, Wei K., 4,658,060, Cl. 564-165.000.

Peer, Thomas R.: *See*—
Helinski, Richard R.; Lutz, Carl D.; Peer, Thomas R.; and Eno, Philip A., 4,714,936, Cl. 346-140.00R.

Peerce-Landers, Pamela J.: *See*—
Wisener, Allison T.; and Peerce-Landers, Pamela J., 4,671,880, Cl. 210-699.000.

Peerless Lighting Corporation: *See*—
Herst, Douglas J.; and Ngai, Peter Y. Y., 4,644,454, Cl. 362-224.000.
Herst, Douglas J.; and Ngai, Peter Y. Y., 4,660,131, Cl. 362-223.000.
Herst, Douglas J.; and Ngai, Peter Y. Y., 4,667,275, Cl. 362-223.000.
Herst, Douglas J.; and Iwahashi, Henry H., 4,706,170, Cl. 362-217.000.
Ngai, Peter Y. Y., 4,698,734, Cl. 362-225.000.

Peerless Machine & Tool Corporation: *See*—
Alexander, Garold W.; Hyder, Lonnie E.; and Wright, Robert V., 4,690,666, Cl. 493-152.000.
Carmichael, Kenneth, 4,691,604, Cl. 83-164.000.
Fortney, Joe L., 4,637,811, Cl. 493-167.000.

Peerless of America, Inc.: *See*—
Pasternak, Stephen F.; and Wohrstein, Franz X., 4,637,111, Cl. 29-157.30A.

Peerless Plastics Packaging Limited: *See*—
Bagnall, Paul J. H.; and Whiteley, Norman, 4,710,338, Cl. 264-509.000.

Peers, John; Scholz, Tim K.; and Shaw, Murray, to Peers, John. System for control of a video storage means by a programmed processor. 4,689,022, 8-25-87, Cl. 434-307.000.

Peers-Travarton, Charles A., to Cordis Corporation. Pacer lead terminal assembly. 4,667,686, 5-26-87, Cl. 128-785.000.

Peery, Walter E. Rotary paper cutter construction. 4,667,554, 5-26-87, Cl. 83-583.000.

Peeters, Hendrikus W. C. M., to Optical Storage International-Holland. Method of providing a substrate with an optically readable information disc. 4,670,077, 6-2-87, Cl. 156-245.000.

Peeters, Hendrikus W. J.; van Kuringen, Hendricus M. J. C.; and Hoeymakers, Gerardus M., to Oce-Nederland B.V. Method and device for controlling an image forming device. 4,705,391, 11-10-87, Cl. 355-77.000.

Peeters, Jozef I. C.: *See*—
de Man, Rolf E.; de Ridder, Jan; Sprengers, Leo M.; and Peeters, Jozef I. C., 4,636,691, Cl. 315-209.00R.

Peeters, Robert D. Loudspeaker enclosure. 4,679,651, 7-14-87, Cl. 181-155.000.

Peev, Stoyko P.: *See*—
Nenkov, Nikolay D.; Petrov, Ivan B.; and Peev, Stoyko P., 4,664,204, Cl. 175-44.000.

Peffer, John R.: *See*—
Chang, Wen H.; Prucnal, Paul J.; Peffer, John R.; Dufford, Edward L.; and Ambrose, Ronald R., 4,714,738, Cl. 525-58.000.

Peffley, Richard D.; Spells, John H.; and Vanderhider, James A., to Dow Chemical Company, The. Polyurethane elastomers prepared in a two-step process using mixtures of chain extenders. 4,689,356, 8-25-87, Cl. 521-159.000.

Peffley, Richard D.: *See*—
Burchell, Donald J., Jr.; and Peffley, Richard D., 4,701,476, Cl. 521-159.000.
Turner, Robert B.; Peffley, Richard D.; and Vanderhider, James A., 4,642,320, Cl. 521-176.000.
Turner, Robert B.; Peffley, Richard D.; Plepys, Raymond A.; Priester, Ralph D.; Gonzales, Manuel, Jr.; and Bushman, Kimbley A., 4,686,242, Cl. 521-137.000.

Pefley, Richard K.; and Pullman, James B., to Prodatek Corporation. Liquid fuel system method and apparatus. 4,651,682, 3-24-87, Cl. 123-1.00A.

Peg Perego-Pines S.p.A.: *See*—
Glaser, Dieter, 4,681,331, Cl. 280-47.360.
Glaser, Dieter, 4,684,148, Cl. 280-647.000.

Pegasus Airwave Limited: *See—*
Ford, Victoria L.; and Morgan, Bryan J., 4,711,275, Cl. 141-95.000.
Pegasus Industries, Inc.: *See—*
Zecman, Kenneth P., 4,635,851, Cl. 239-133.000.
Pegasus Sewing Machine Mfg. Co., Ltd.: *See—*
Kasuda, Takashi; and Seto, Youji, 4,674,426, Cl. 112-313.000.
Nishikawa, Masahiko, 4,640,206, Cl. 112-143.000.
Tatsumi, Eiji, 4,644,884, Cl. 112-130.000.
Pegels, Doris, heir: *See—*
Appenzeller, Valentin, deceased; Appenzeller, Maria, heir; Appenzeller, Regine, heir; Pegels, Doris, heir; and Appenzeller, Ernst, heir, 4,709,629, Cl. 100-162.00B.
Pegfence International, Inc.: *See—*
Moraly, Paul, 4,651,399, Cl. 29-412.000.
Pegg, Anthony E.: *See—*
O'Brien, Thomas G.; Pegg, Anthony E.; and Herlyn, Meehard, 4,637,984, Cl. 435-240.000.
Pegg, David T.: *See—*
Bendall, Max R.; and Pegg, David T., 4,682,107, Cl. 324-307.000.
Pegg, Robert J.; and Gaertner, William L., Jr., to Custom Medical Devices, Inc. Bone core removing tool. 4,649,918, 3-17-87, Cl. 128-305.000.
Pegg, Ronlee H. Cycle pedal shoe. 4,685,351, 8-11-87, Cl. 74-594.400.
Peghetti, Ferruccio G., to Lips Vago SpA. Two door safe. 4,688,492, 8-25-87, Cl. 109-56.000.
Peglow, Hartmut: *See—*
Glessner, Bertram; Pitsch, Paul; Heinen, Peter; and Peglow, Hartmut, 4,636,235, Cl. 65-3.120.
Glessner, Bertram; Pitsch, Paul; Heinen, Peter; and Peglow, Hartmut, 4,636,236, Cl. 65-3.120.
Peglow, James D.: *See—*
LaDue, Philip G.; and Peglow, James D., 4,712,935, Cl. 400-645.103.
Pegnam, Robert C.: *See—*
Rybka, John J.; and Pegnam, Robert C., 4,676,339, Cl. 182-2.000.
Pegoraro, Luciano, to Pegoraro S.p.A. Rear shield mounted on cultivating machine frame. 4,664,201, 5-12-87, Cl. 172-112.000.
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Pegoraro, Luciano, 4,664,201, Cl. 172-112.000.
Pegram, Warren J. Electrical connector and method. 4,653,830, 3-31-87, Cl. 339-97.00R.
Peham, Engelbert J. Snap action hinged support for a collapsible top hat. 4,709,422, 12-1-87, Cl. 2-180.000.
Pehker, Manfred; Pahlke, Edelgard; and Metz, Josef, to Rheinmetall GmbH. Ammunition rack for vertically standing cartridge ammunition. 4,693,166, 9-15-87, Cl. 89-34.000.
Pehker, Manfred: *See—*
Heintz, Wolfgang; Pehker, Manfred; and Metz, Josef, 4,638,714, Cl. 89-37.010.
Metz, Josef; Pehker, Manfred; and Zielinski, Erich, 4,690,031, Cl. 89-36.130.
Pehrson, West F.; and Baczuk, Robert J., to United States of America, Navy. Trident II baseline power embedment case bond system. 4,654,103, 3-31-87, Cl. 156-276.000.
Peickert, Marlin W. Filler neck insert. 4,635,813, 1-13-87, Cl. 220-86.00R.
Peifer, Ralph D. Grain drying apparatus for storage bin. 4,712,311, 12-15-87, Cl. 34-56.000.
Peiffer, Dennis G.; Lundberg, Robert D.; and Pober, Kenneth W., to Exxon Research & Engineering Co. Polyampholytes - high temperature viscosifiers for high ionic strength drilling fluids. 4,637,882, 1-20-87, Cl. 252-8.514.
Peiffer, Dennis G.; Kowalik, Ralph M.; and Lundberg, Robert D., to Exxon Research & Engineering Co. Drag reduction with novel hydrocarbon soluble polyampholytes. 4,640,945, 2-3-87, Cl. 523-336.000.
Peiffer, Dennis G.; Lundberg, Robert D.; Sedillo, Lawrence; and Newlove, John C., to Exxon Research and Engineering Company. Fluid loss control in oil field cements. 4,683,952, 8-4-87, Cl. 166-293.000.
Peiffer, Dennis G.; and Lundberg, Robert D., to Exxon Research and Engineering Company. Novel polyampholyte compositions possessing high degrees of acid, base, or salt tolerance in solution. 4,710,555, 12-1-87, Cl. 526-240.000.
Peiffer, Dennis G.: *See—*
Duvdevani, Ilan; Lundberg, Robert D.; Kowalik, Ralph M.; and Peiffer, Dennis G., 4,656,204, Cl. 523-175.000.
Lundberg, Robert D.; Duvdevani, Ilan; and Peiffer, Dennis G., 4,647,603, Cl. 523-339.000.
Lundberg, Robert D.; Phillips, Robert R.; Peiffer, Dennis G.; and Duvdevani, Ilan, 4,665,115, Cl. 524-251.000.
Mintz, Donald J.; Peiffer, Dennis G.; Thaler, Warren A.; and Duvdevani, Ilan, 4,701,263, Cl. 210-728.000.
Peiffer, Herbert; and Eberhardt, Horst, to Hoechst Aktiengesellschaft. Screw extruder. 4,678,339, 7-7-87, Cl. 366-76.000.
Peiffer, Robert: *See—*
Prieels, Jean-Paul; and Peiffer, Robert, 4,667,018, Cl. 530-417.000.
Peil, Archie W.: *See—*
Bishop, Thomas R.; Peil, Archie W.; and Foreman, Arnal B., Jr., 4,648,447, Cl. 166-173.000.
Peinecke, Dale R.; Robak, Casimir B., Jr.; and Dubs, Robert A., to Aluminum Company of America. Control system for positioning and operating a pneumatic percussion tool. 4,702,324, 10-27-87, Cl. 173-39.000.
Peinemann, Klaus-Viktor, to GKSS Forschungszentrum Geesthacht GmbH. Method for producing an integral, asymmetric membrane and the resultant membrane. 4,673,418, 6-16-87, Cl. 55-158.000.
Peinsipp, Alice A., to Selfix, Inc. Stowable shelf/rack assembly. 4,712,692, 12-15-87, Cl. 211-119.000.
Peintures Corona S.A.: *See—*
Roue, Jean; LeDisert, Yves; Faucher, Philippe; and Scriven, Roger L., 4,689,131, Cl. 204-181.700.
Peirce, James G.; and Sween, Maurice A., to Sween Corporation. Outboard motor trim system. 4,654,014, 3-31-87, Cl. 440-59.000.
Peirce, James G. Outboard motor tilt and trim adaptor apparatus and safety device. 4,687,448, 8-18-87, Cl. 440-53.000.
Peiretti, Domenico: *See—*
Gilli, Luigi; and Peiretti, Domenico, 4,659,900, Cl. 219-121.0LG.
Ribolla, G. Carlo; Taroni, Federico; Peiretti, Domenico; and Pippino, Antonio, 4,701,985, Cl. 26-10.00C.
Peirigua, Agues: *See—*
Dubroca, Claudie C.; Peirigua, Agues; and Cazeau, Philippe, 4,647,400, Cl. 252-301.160.
Peise, Helmut: *See—*
Gudymov, Ernest; Fedotov, Vasilij; Semenov, Vladimir; Rodinov, Boris; Berger, Friedrich; Wenzel, Winfried; Peise, Helmut; and Schingnitz, Manfred, 4,709,163, Cl. 48-73.000.
Peisker, Glenn; Christiansen, Keith; and Jaime, Gil, to Chicago Rawhide Mfg. Co. Method of and apparatus for molding a composite fluorocarbon helix seal. 4,689,190, 8-25-87, Cl. 264-159.000.
Peiss, Klaus: *See—*
Kolblin, Rolf; Schneider, Reinhard; Burgtorf, Heinrich; and Peiss, Klaus, 4,675,977, Cl. 29-568.000.
Peitsch, Bernd E.: *See—*
Johnson, Robert C.; Perry, David L.; and Peitsch, Bernd E., 4,634,971, Cl. 324-133.000.
Peitsmeier, Karl: *See—*
Albrecht, Wilhelm; Wurz, Dieter; Peitsmeier, Karl; Waldschutz, Heinz; Ruckert, Walter; Kuhn, Klaus; and Patzelt, Helmut, 4,642,817, Cl. 74-552.000.
Steinkamper, Reinhard; Boll, Wolf; and Peitsmeier, Karl, 4,678,361, Cl. 403-359.000.
Peitz, Robert W., Jr.: *See—*
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Peitz, Theo: *See—*
Westbrock, Paul; and Peitz, Theo, 4,678,876, Cl. 200-148.00R.
Peitz, Wolfgang; and Mazziotti, Pietro-Antonio, to Hella KG Hueck & Co. Screened vehicular headlight with an ellipsoidal reflector. 4,677,532, 6-30-87, Cl. 362-61.000.
Peitzmeier, Klaus-Dieter: *See—*
Rehbein, Friedhelm; and Peitzmeier, Klaus-Dieter, 4,684,009, Cl. 198-731.000.
Pejouhy, Radi; Nield, Joseph G., Jr.; D'Entremont, John R.; Beggs, Louis C.; and Rotulo, Fabrizio, to Texas Instruments Incorporated. Protected refrigerator compressor motor systems and motor protectors. 4,713,717, 12-15-87, Cl. 361-26.000.
Pekar, Jaroslaw; and Beadles, Robert L., to Research Triangle Institute. Vision enhancing system. 4,704,000, 11-3-87, Cl. 350-145.000.
Pekarek, William R., to Westinghouse Electric Corp. Apparatus and method for removing thermocouples from nuclear reactor vessel. 4,701,297, 10-20-87, Cl. 376-260.000.
Pekelis, Boris L.: *See—*
Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Titov, Mikhail I.; Penin, Vladimir A.; Giorgadze, Alexandr K.; Titova, Galina P.; Bespalova, Zhanna D.; Pekelis, Boris L.; Permyakov, Nikolai K.; Emelyanov, Sergei I.; and Dzhikia, Alexandr A., 4,695,622, Cl. 530-329.000.
Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Polonsky, Vladimir M.; Tischenko, Valentina A.; Titov, Mikhail I.; Bespalova, Zhanna D.; and Pekelis, Boris L., 4,698,419, Cl. 530-329.000.
Pekny, Robert E. Marine anchor. 4,700,652, 10-20-87, Cl. 114-303.000.
Pelava, John W.: *See—*
Wilson, David P.; Pham, Hang T.; Lund, Earl A. E.; Basu, Rajat S.; and Pelava, John W., 4,683,075, Cl. 252-171.000.
Pelc, Norbert J.; and Glover, Gary H., to General Electric Company. Method for reducing image artifacts due to periodic signal variations in NMR imaging. 4,663,591, 5-5-87, Cl. 324-309.000.
Pelc, Norbert J.; and Glover, Gary H., to General Electric Company. Method for reducing image artifacts due to periodic signal variations in NMR imaging. 4,706,026, 11-10-87, Cl. 324-309.000.
Pelc, Norbert J.; and Glover, Gary H., to General Electric Company. Method for fast scan cine NMR imaging. 4,710,717, 12-1-87, Cl. 324-309.000.
Pelc, Norbert J.: *See—*
Collins, Arthur K.; Pelc, Norbert J.; and Wallenslager, Susan T., 4,653,013, Cl. 364-518.000.
Glover, Gary H.; and Pelc, Norbert J., 4,665,365, Cl. 324-309.000.
Glover, Gary H.; and Pelc, Norbert J., 4,698,591, Cl. 324-307.000.
Pelc, Rafael: *See—*
Nebgen, Gilbert B.; and Pelc, Rafael, 4,667,117, Cl. 307-154.000.
Pelchat, Guy; and Crabtree, Luther L., to Harris Corporation. Receiver having a modulation amplifier for enhancing reception of a desired signal in the presence of interference. 4,710,723, 12-1-87, Cl. 329-192.000.
Pelchat, Guy M.; and Boyd, Robert W., to Harris Corporation. Performance monitoring of antijam satellite communication network. 4,653,053, 3-24-87, Cl. 371-43.000.

elczarski, Walter J., to Allied Corporation. Connector assembly for mass termination. 4,648,679, 3-10-87, Cl. 339-99.00R.

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Spector, Yechiel; Peleg, Amiram; and Cohen, Ilan. 4,677,294, Cl. 250-252.100.
Stern, Geoffrey S.; Avni, Zion; Gonen, Amos; and Peleg, Amiram. 4,691,783, Cl. 169-61.000.

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Henry, Jean-Pierre; and Pelenc, Lionel. 4,703,907, Cl. 244-173.000.

eletan, Rene, to Framatome. Apparatus with linear movement. 4,640,811, 2-3-87, Cl. 376-228.000.

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Martin, Jean; and Peletan, Rene . 4,683,102, Cl. 376-209.000.

eletz, Lawrence J., Jr.; and Jukkola, Glen D., to Combustion Engineering, Inc. Method for drying coal with hot recycle material. 4,680,076, 9-1-87, Cl. 110-347.000.

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Peleus, Agne, 4,658,992, Cl. 222-199.000.
Peleus, Agne, 4,669,638, Cl. 222-200.000.

elger, Michael: *See*—
Baurmeister, Ulrich; Brodowski, Walter; Diamantoglou, Michael; Dunweg, Gustav; Henne, Werner; Pelger, Michael; and Schulze, Helmut. 4,668,396, Cl. 210-500.290.
Henne, Werner; and Pelger, Michael. 4,673,506, Cl. 210-636.000.

elgrom, Marcellinus J. M., to U.S. Philips Corporation. Distribution of a data stream in a series-parallel-series digital arrangement comprising digital units having at least one defective element. 4,688,220, 8-18-87, Cl. 371-10.000.

elgrom, Marcellinus J. M., to U.S. Philips Corporation. Charge sensor having a preset flipflop. 4,695,753, 9-22-87, Cl. 307-530.000.

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Herrmann, Jochem; and Pelgrom, Marcellinus J. M., 4,700,229, Cl. 358-166.000.
Slotboom, Jan W.; Harwig, Hendrik A.; and Pelgrom, Marcellinus J. M., 4,669,100, Cl. 377-60.000.

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Mecke, Norbert; Krauter, Heinrich; and Kuchenreuther, Wieland. 4,675,063, Cl. 156-234.000.

elkey, Terry L. Motor driven bulk material roll and wrapping machine. 4,697,602, 10-6-87, Cl. 131-51.000.

elko Electric Inc.: *See*—
Pelonis, Kosta, 4,703,153, Cl. 219-370.000.

ell, Amy, to Chevron Research Co. Valve wrench. 4,715,252, 12-29-87, Cl. 81-176.100.

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Gloriod, Pierre; Andureau, Joel; and Pellegrini, Maurice. 4,644,044, Cl. 526-272.000.

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Pelletier, Marc G.: *See*—
Hildebrandt, Paul R.; and Pelletier, Marc G., 4,701,131, Cl. 434-211.000.

Pelletier, Patrice: *See*—
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Pelletier, Yves, to C. Delachaux. Suspension assembly for electricity power supply rails. 4,704,502, 11-3-87, Cl. 191-23.00A.

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Pelley, Perry H., III; and Lewandowski, Alan, to Motorola, Inc. Redundant column substitution architecture with improved column access time. 4,691,300, 9-1-87, Cl. 365-200.000.

Pelley, Perry H., III; and Morton, Bruce L., to Motorola, Inc. Technique restore for a dynamic random access memory. 4,710,902, 12-1-87, Cl. 365-222.000.

Pellhammer, Maurus, to Escher Wyss GmbH. Method for sorting fiber stock, especially for manufacturing paper, and sorting apparatus for the performance of such method. 4,650,125, 3-17-87, Cl. 241-21.000.

Pellin, Michael J.: *See*—
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Pellini, Renzo, to Pirelli S/A Companhia Industrial Brasileira. Unwinding module for packing reels containing electric conductors. 4,685,633, 8-11-87, Cl. 242-85.000.

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Burough, Irvin G.; Pellissier, Robert O.; and Johnson, Kenneth W., 4,709,150, Cl. 250-338.000.

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Gugel, Siegfried; Pellkofer, Dieter; and Forner, Siegfried, 4,698,474, Cl. 219-60.00A.

Pellon, Brian J.: *See*—
Hughes, Michael P.; and Pellon, Brian J., 4,701,489, Cl. 524-349.000.

Pellow, Terence R., to Rolls-Royce plc. Axial flow turbines. 4,669,955, 6-2-87, Cl. 415-174.000.

Pellow, Terence R., to Rolls-Royce plc. Gas turbine engine air intake. 4,713,934, 12-22-87, Cl. 60-39.092.

Pelmulder, John P.; Gorton, Lanny A.; Guleserian, Armen J.; and Livingston, John H., to Pacesetter Infusion, Ltd. Precision passive flat-top valve for medication infusion system. 4,712,583, 12-15-87, Cl. 137-852.000.

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Pelonis, Kosta, to Doric Electronic Laboratories Ltd. Lighting fixture overload protector. 4,713,721, 12-15-87, Cl. 361-100.000.

Pelosi, Stanford S., Jr.; and Yu, Chia-Nien, to Norwich Eaton Pharmaceuticals, Inc. 5-phenyl-2-furoic acid hydrazides. 4,643,996, 2-17-87, Cl. 514-336.000.

Pelrine, Bruce P.: *See*—
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Pelsor, August J.: *See*—
Blackburn, Dennis R.; and Pelsor, August J., 4,700,315, Cl. 364-477.000.

Pelster, Bernhard: *See*—
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Sasse, Klaus; Hammond, Michael; Seuter, Friedel; Perzborn, Elisabeth; Pelster, Bernhard; Sturton, Graham; and Abram, Trevor, 4,698,344, Cl. 514-275.000.

Pelsy, Gilles. Process and device for obtaining data relative to the position in a vertical plane of a supple pipe in the process of being buried. 4,643,615, 2-17-87, Cl. 405-175.000.

Pelt & Hooykaas B.V.: *See*—
Hooykaas, Carel W., 4,713,223, Cl. 423-140.000.
Pelta, Samuel, to Pilling Co. Adapter for surgical retractor. 4,702,230, 10-27-87, Cl. 128-20.000.
Peltier, Bernard P. J. M., to PRAD Research & Development N.V. Drilling monitor with downhole torque and axial load transducers. 4,695,957, 9-22-87, Cl. 364-422.000.
Pelto, Elmer M.; and Pearson, Allan, to Cominco Ltd. Method and apparatus for anchoring rock bolts and cables. 4,697,960, 10-6-87, Cl. 405-260.000.
Peltola, Heikki, to Flakt AB. Separating apparatus. 4,698,077, 10-6-87, Cl. 55-204.000.
Pelton, Arthur D.: *See*—
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Pelton, John F., to Union Carbide Corporation. Strengthened graphite-metal threaded connection. 4,685,822, 8-11-87, Cl. 403-343.000.
Pelton, John T.: *See*—
Hruby, Victor J.; and Pelton, John T., 4,684,620, Cl. 514-11.000.
Pelton, Robert J.: *See*—
Loofbourrow, James G.; Lewis, William E.; and Pelton, Robert J., 4,656,840, Cl. 62-530.000.
Peltonen, Juhani: *See*—
Forss, Kaj; Sten, Matti; Peltonen, Juhani; and Jokela, Veikko, 4,681,935, Cl. 536-56.000.
Peltz, Curtis L.; Martin, George F.; and Blake, Peter H., to Timberline Software Corporation. Method and apparatus for single source entry of analog and digital data into a computer. 4,716,542, 12-29-87, Cl. 364-900.000.
Peltz, Hanns-Heinz, to Zimring, Bruce. Device for facilitating the circulation of fluid coolant. 4,657,068, 4-14-87, Cl. 165-47.000.
Pelus, Pascal: *See*—
Davoust, Joel; and Pelus, Pascal, 4,660,436, Cl. 74-574.000.
Peluso, John J.: *See*—
Harm, William H.; and Peluso, John J., 4,650,766, Cl. 435-284.000.
Pelz, David T. Golf club and head including alignment indicators. 4,688,798, 8-25-87, Cl. 273-164.000.
Pelz, Edward C., to Navistar International Corporation. Twist clip. 4,673,151, 6-16-87, Cl. 248-74.100.
Pelzl, Leo; Seibold, Juergen; and Zell, Karl, to Siemens Aktiengesellschaft. Insertible electric assembly. 4,652,066, 3-24-87, Cl. 339-17.0LC.
Pelzl, Leo: *See*—
Glomb, Kurt; Niggl, Heinz; Pelzl, Leo; and Zell, Karl, 4,659,165, Cl. 339-176.00M.
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Seidel, Peter; Pelzl, Leo; and Zell, Karl, 4,712,849, Cl. 439-607.000.
Pemberton, Eugene B.: *See*—
Petter, William J.; Moore, Glenn E.; McMath, Jack A.; and Pemberton, Eugene B., 4,659,251, Cl. 405-52.000.
Pemberton, J. C. Roadway destriping. 4,659,249, 4-21-87, Cl. 404-75.000.
Pemberton, J. C. Gaging rack for holding wrench sockets. 4,688,672, 8-25-87, Cl. 206-378.000.
Pemberton, Peter F. Computer user's desk. 4,669,789, 6-2-87, Cl. 312-7.200.
Pemco, Inc.: *See*—
Meives, Otis E.; and Lutzke, Anthony, 4,683,705, Cl. 53-462.000.
Vorachek, Michael J.; Entringer, Guy P.; Meives, Otis E.; Lynch, Gary L.; and Lutzke, Anthony J., 4,683,704, Cl. 53-461.000.
Penalba, Charles L. Autonomous station for cleaning the hulls of pleasure craft. 4,658,749, 4-21-87, Cl. 114-222.000.
Penar, Leonard. Smoke detector mounting. 4,702,452, 10-27-87, Cl. 248-317.000.
Penato, Jean M.; Hery, Paul; and Bouhnik, Claude, to Thomson-CGR. X-ray tube with a rotary anode and process for fixing a rotary anode to a support shaft. 4,670,895, 6-2-87, Cl. 378-125.000.
Penberthy, Vivian M., to Demlux Securities B.V. Steerable parachute. 4,699,338, 10-13-87, Cl. 244-152.000.
Pence, Jane R.: *See*—
Beglin, Thomas W.; Pence, Jane R.; Kamionka, Harvey E.; and Pence, Jerry W., 4,638,424, Cl. 364-200.000.
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Pencept, Inc.: *See*—
Blesser, Barry, 4,694,124, Cl. 178-19.000.
Blesser, Barry A.; and Prentice, Thomas C., 4,638,119, Cl. 178-19.000.
Blesser, Barry A.; and Prentice, Thomas C., 4,644,102, Cl. 178-19.000.
Penco, Sergio: *See*—
Bargiotti, Alberto; Zini, Pierangelo; Penco, Sergio; and Giuliani, Fernando, 4,672,057, Cl. 514-34.000.
Bargiotti, Alberto; Caruso, Michele; Suarato, Antonino; Penco, Sergio; and Giuliani, Fernando, 4,684,629, Cl. 514-34.000.
Penczek, Irena: *See*—
Kosinska, Wanda; Grzelak, Dorota; Penczek, Irena; and Bialy, Jan, 4,687,799, Cl. 524-100.000.
Penda Corporation: *See*—
Dresen, William L.; Price, William F.; Emery, Phillip L.; Breezer, Harlan W.; and Holmes, Robert R., 4,693,507, Cl. 296-39.00R.
Pendelton, Richard A., to USM Corporation. Method of manufacturing metal fasteners. 4,688,415, 8-25-87, Cl. 72-339.000.
Pender, Daniel J. Apparatus for treating recurrent ear infections. 4,712,537, 12-15-87, Cl. 128-9.000.
Pendergast, Hugh L., to Duramet Systems, Inc. Dynamic foot support and kit therefor. 4,633,877, 1-6-87, Cl. 128-581.000.
Pendergrass, James H.: *See*—
Corey, Paul F.; Skjold, A. Christopher; Pendergrass, James H.; and Stover, Lonnie, 4,657,855, Cl. 435-19.000.
Pendleton, Donald L., to Safegard Corporation. The Buoyant vest and method of making the same. 4,654,016, 3-31-87, Cl. 441-116.000.
Pendleton, Eric; Roberts, Karl A.; and Murray, Alan, to National Nuclear Corporation Limited. Monitoring temperature within a vessel. 4,681,729, 7-21-87, Cl. 376-247.000.
Pendleton, Eric; Roberts, Karl A.; and Murray, Alan, to National Nuclear Corporation Limited. Monitoring pressure within a vessel. 4,696,787, 9-29-87, Cl. 376-247.000.
Pendleton, Richard A., to USM Corporation. Adjustable nose piece. 4,648,259, 3-10-87, Cl. 72-391.000.
Pendleton, Robert G. α_2-adrenergic receptor antagonists as modifiers of gastrointestinal motility. 4,673,680, 6-16-87, Cl. 514-285.000.
Pendley, Cynthia C.: *See*—
Vogt, Clifford M.; Shipp, Peter W., Jr.; and Pendley, Cynthia C., 4,689,058, Cl. 55-279.000.
Pendse, Sudhir B., to Racal Data Communications Inc. CSMA-CD with channel capture. 4,707,829, 11-17-87, Cl. 370-86.000.
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Bakalov, Nikolay G.; Penev, Penyo I.; Ivanov, Ivan K.; Velev, Velyo T.; Savov, Peter H.; and Vulchev, Alexander Y., 4,703,493, Cl. 373-95.000.
Penfound, Keith A.: *See*—
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Peng, Chen H. Refuse disposing method and the apparatus thereof. 4,682,548, 7-28-87, Cl. 110-222.000.
Peng, Jieh-Ping: *See*—
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Peng, Koh K. Article of footwear. 4,680,876, 7-21-87, Cl. 36-35.00B.
Peng, Sheng Y., to Teledyne Micronetics. Wideband wing-conformal phased-array antenna having dielectric-loaded log-periodic electrically-small, folded monopole elements. 4,656,482, 4-7-87, Cl. 343-705.000.
Peng, Tzy C.: *See*—
Sastry, Shankar M.; O'Neal, James E.; and Peng, Tzy C., 4,639,281, Cl. 148-407.000.
Peng, Wang D.: *See*—
Yan, Huang Y.; and Peng, Wang D., 4,664,919, Cl. 426-46.000.
Pengler, Rudolf. Exercising device. 4,673,179, 6-16-87, Cl. 272-93.000.
Penguin Swimming Pools Limited: *See*—
Burnell, Richard M.; and Bridge, Donald, 4,644,718, Cl. 52-295.00.
Penhale, Donald W. H.: *See*—
Heller, Jorge; and Penhale, Donald W. H., 4,713,441, Cl. 528-392.000.
Penhasi, Harry A.: *See*—
Leytes, Lev J.; and Penhasi, Harry A., 4,690,165, Cl. 137-112.00.
Penicaud, Etienne: *See*—
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Penick, Joe E., to Mobil Oil Corporation. Catalytic reactor system with crosscurrent liquid and gasflow. 4,705,621, 11-10-87, Cl. 208-146.00.
Penick, Joe E.: *See*—
Chang, Clarence D.; Penick, Joe E.; and Socha, Richard F., 4,678,645, Cl. 422-190.000.
Green, Gary J.; McVeigh, Harry A.; Penick, Joe E.; and Yan, Tsoung Y., 4,640,675, Cl. 431-2.000.
Green, Gary J.; McVeigh, Harry A.; Penick, Joe E.; and Yan, Tsoung Y., 4,643,666, Cl. 431-4.000.
Penin, Vladimir A.: *See*—
Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Titov, Mikhail I.; Penin, Vladimir A.; Giorgadze, Alexandr K.; Titova, Galina P.; Bespalova, Zhanna D.; Pekelis, Boris L.; Permyakov, Nikolai K.; Emelyanov, Sergei I.; and Dzhika, Alexandr A., 4,695,622, Cl. 530-329.000.
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Peninsula Plastics Co., Inc.: *See*—
Webb, Daniel D., 4,673,087, Cl. 206-600.000.
Webb, Daniel D., 4,685,567, Cl. 206-506.000.
Penisson, Dennis J.: *See*—
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Penkov, Julii S.: *See*—
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Penland, William Z.: *See*—
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Penlon Limited: *See*—
Davies, William L.; Hahn, Clive E. W.; Jackson, Roy K.; McGrath, Thomas A.; Palayiwa, Eileen; and Sugg, Basil R., 4,630,92[illegible], Cl. 356-361.000.
Penman, Alistair: *See*—
Irvine, Sheila M.; Penman, Alistair; and Wood, Geoffrey B., 4,692,338, Cl. 426-2.000.
Penn, Benjamin G.: *See*—
Daniels, Julia G.; Ledbetter, Frank E., III; Clemons, Johnny M.; Penn, Benjamin G.; and White, William T., 4,680,897, Cl. 51-281.00R.

Cecil W., to Sperry Corporation. Apparatus and method for asuring linewidth and convergence in a color cathode ray tube lay system. 4,642,529, 2-10-87, Cl. 315-368.000.

Engineering & Manufacturing Corp.: *See—*

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Fishing Tackle Mfg. Co.: *See—*

rvlak, Stanley R., 4,657,200, Cl. 242-84.10R.

Howard L., to Morton Thiokol, Inc. Clear, weather resistant erent coating. 4,640,868, 2-3-87, Cl. 428-446.000.

Jack C.: *See—*

rehand, Gilbert H.; Lynch, Michael J.; Duncan, Richard L.; Tilghman, Stephen E.; and Penn, Jack C., 4,709,234, Cl. 340-859.000.

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John E.: *See—*

elling, William E.; and Penn, John E., 4,706,210, Cl. 364-758.000.

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ldman, Jerome; Goldman, Marvin; Phillips, Gerald; and Goldman, Terry, 4,678,568, Cl. 210-169.000.

ldman, Jerome; Goldman, Marvin; and Phillips, Gerald, 4,693,817, Cl. 210-169.000.

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David E., to U.S. Philips Corporation. Video display system rising an index store for storing reduced versions of pictures to splayed. 4,649,380, 3-10-87, Cl. 340-750.000.

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, John R.; and Quinn, Sharon A., to Flexcon Company, Inc. he pressure-sensitive adhesive laminates and silicone release therefore. 4,684,557, 8-4-87, Cl. 428-40.000.

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er, William B., to International Business Machines Corpora- Thresholding technique for graphics images using histogram s. 4,656,665, 4-7-87, Cl. 382-51.000.

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Richard J.: *See—*

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orst, to Dynamit Nobel Aktiengesellschaft. Propellant charge 4,669,383, 6-2-87, Cl. 102-202.000.

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Horst; Schweder, Roland; and Knoell, Helmut, to Rohm Concentrated emulsions of olefin copolymers. 4,665,121, Cl. 524-457.000.

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Bradford; and Sharrah, Raymond L., to Streamlight, Inc. hooting bow with stabilizing flashlight. 4,640,258, 2-3-87, 0OR.

M., to General Electric Company. Method and system for surface profile information. 4,634,879, 1-6-87, Cl. .

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M.; Roy, Robert N.; and Thomas, Bradley S., to General mpany. Swept aperture flying spot profiler. 4,645,917, 250-201.000.

Penney, Carl M., to General Electric Company. Precision remote location of a movable point employing light interference fringes. 4,696,574, 9-29-87, Cl. 356-375.000.

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Penney, James W., to Rockwell International Corporation. Dual deposition single level lift-off process. 4,687,541, 8-18-87, Cl. 156-643.000.

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Brown, Ian A.; McMahon, Dennis R.; Rosas, Robin R.; Scopatz, Stephen D.; and Wind, Karen L., 4,687,107, Cl. 209-556.000.
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Radice, Peter F., 4,638,207, Cl. 310-328.000.
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Pepper, Steven H., to Tektronix, Inc. Power supply switch circuit. 4,671,824, 6-16-87, Cl. 307-64.000.

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Percival, Dan M.: *See*—
Rasmussen, Harry R.; Percival, Dan M.; Hoskinson, John D.; and Nickerson, Charles, 4,653,094, Cl. 379-396.000.

Percival, Richard; and Uhlmann, Ernst, to Lasarray Holding AG. IC interconnect system using metal as a mask. 4,689,657, 8-25-87, Cl. 357-68.000.

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Pereira, Joseph J.; Delta, Anthony D.; and Miller, Scott W., to Clairol Incorporated. Pressure venting closure cap for a container spout. 4,664,288, 5-12-87, Cl. 220-209.000.

Pereira, Joseph J.; Taylor, Malcolm E.; and Sawaf, Bernard, to Clairol Incorporated. Dual compartment container. 4,682,689, 7-28-87, Cl. 206-222.000.

Pereira, Lenore, to Institut Merieux. Vaccine for cytomegalovirus. 4,689,225, 8-25-87, Cl. 424-89.000.

Pereira-Ramos, Jean-Pierre: *See*—
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Perez, Antonio C., to Vileda GmbH, Firma. Plug, socket and plug-and-socket coupling thereof for temporarily attaching an implement to a handle. 4,697,949, 10-6-87, Cl. 403-361.000.
Perez, Ariel E.; and Galaviz, Hector D. Method for recovery of precious metals from difficult ores with copper-ammonium thiosulfate. 4,654,078, 3-31-87, Cl. 75-118.00R.
Perez, Fernando. Container for collecting oil. 4,702,290, 10-27-87, Cl. 141-332.000.
Perez, Frederick W., to Kaiser Aerospace & Electronics Corporation. Motorized gate valve for a waste disposal system. 4,693,447, 9-15-87, Cl. 251-129.120.
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Schmitt, Robert J.; Perez, Leon A.; Montague, Robert A.; and Tetenbaum, Marvin T., 4,692,383, Cl. 428-414.000.
Perez, Manuel. Adjustable flexible dual gas mixing assembly. 4,640,260, 2-3-87, Cl. 126-39.00E.
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Seyler, Peter G., 4,700,981, Cl. 296-1.00F.
Perfetti, Giorgio; and Sozzi, Giuseppe, to Gum Base Co., S.p.A. Noncalorie, non-cariogenic chewing gum composition. 4,698,223, 10-6-87, Cl. 426-4.000.
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Perhach, John M.; Porter, Charles E., Jr.; and Maloney, David C., to Aro Corporation, The. Method and apparatus for testing the fluid-tight sealed integrity of a hermetically-sealed package in a rapidly-stabilized environment. 4,715,215, 12-29-87, Cl. 73-49.300.
Periard, Jacques; and Cron, Alain, to Lonza Ltd. Pickling agent. 4,710,307, 12-1-87, Cl. 252-18.000.
Perichaud, Alain; and Le Mehaute, Alain. Composition based on an electron conducting polymer and its application to a positive active material for electrochemical generators. 4,664,991, 5-12-87, Cl. 429-194.000.
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Perin, Robert; Jourdan, Pierre; and Pauly, Bernard, to Societe Nationale Industrielle et Aerospatiale. Arrowlike aircraft wing equipped with a high-lift system and with a pylon for suspending the engine. 4,637,573, 1-20-87, Cl. 244-54.000.
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Perini, Fabio. Sail rigging with fairing. 4,690,083, 9-1-87, Cl. 114-102.000.
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Periou, Pierru, to Compagnie Industrielle de Mecanismes en abrege C.I.M. Electric motor-speed reducer unit for driving accessories of motor vehicles, such as window glasses. 4,699,017, 10-13-87, Cl. 74-425.000.
Peris, James P., to United States of America, Commerce. Method and apparatus for measuring machine cutting tool positions. 4,699,551, 10-13-87, Cl. 409-218.000.
Peris, James P.: *See*—
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Slocum, Alexander H.; and Peris, James P., 4,694,230, Cl. 318-568.000.
Perisastry, Ayyala; Vishe, Richard A.; and Huber, Henry J., to Harsco Corporation. Projectile storage rack with gang lock mechanism. 4,655,668, 4-7-87, Cl. 414-417.000.
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Dong, Michael W.; Yarbro, Stanley K.; and Vandermark, Frank, 4,678,639, Cl. 422-81.000.
Fabel, Arthur J., 4,674,683, Cl. 239-13.000.
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Ferber, Alan C.; and Chamran, Morteza M., deceased, 4,644,485, Cl. 364-569.000.
Ferber, Alan C.; and Chamran, Morteza M., deceased, 4,647,199, Cl. 356-300.000.
Ferber, Alan C.; and Chamran, Morteza M., deceased, 4,679,162, Cl. 364-571.000.
Ferber, Alan C.; and Chamran, Morteza M., deceased, 4,681,444, Cl. 356-318.000.
Ford, Michael A., 4,684,255, Cl. 356-346.000.
Fox, Thomas J.; Saia, Lawrence A.; Savill, Robert F., Jr.; Trapani, Richard D.; and Turner, Melvyn E., 4,668,852, Cl. 219-76.140.
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Huber, Bernhard, 4,681,530, Cl. 431-89.000.
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Nelson, Michael R.; Boostrom, Roy E.; Cahill, Jerry E.; and Hwang, Tzong, 4,692,883, Cl. 364-571.000.
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Palmberg, Paul W., 4,638,446, Cl. 364-555.000.
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Wittmer, Charles M., 4,669,877, Cl. 356-300.000.
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Yakovlevitch, Daniel; and Rotolico, Anthony J., 4,649,257, Cl. 219-121.0PP.
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rkin, Gregg S.; and Papke, Duane D., to Oil Patch Group, Inc. Method for assembling a well drilling tool. 4,709,462, 12-1-87, Cl. 29-434.000.
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rkins, Charles V., to U.S. Philips Corporation. Adjusting the direction of a beam of radiation. 4,637,695, 1-20-87, Cl. 350-631.000.
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rkins, David J., to Chrysler Motors Corporation. Anti-roll torsion bar arrangement for vehicle rear suspension. 4,637,628, 1-20-87, Cl. 280-689.000.
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rkins, Derrick O.: *See*—
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rkins, Eugene W. Heating system using a liquid heater as the source of heat. 4,651,681, 3-24-87, Cl. 122-26.000.
rkins, Francis W., Jr.; Chiu, Shiu-Chu; Parks, Paul; and Rawls, John M., to United States of America, Energy. Resonant-cavity antenna for plasma heating. 4,661,304, 4-28-87, Cl. 376-123.000.
Perkins, Geoffrey W., to Motorola, Inc. Electronic phase shifter circuit and method. 4,663,594, 5-5-87, Cl. 328-155.000.
Perkins, Goeffrey W., to Motorola, Inc. Crystal controlled oscillator. 4,646,033, 2-24-87, Cl. 331-116.00R.
Perkins, Haywood A.; and Ensley, Kenneth L., to Kerr-McGee Chemical Corporation. Nozzle for spraying a liquid into a vessel opening. 4,669,667, 6-2-87, Cl. 239-467.000.
Perkins Industries, Inc.: *See*—
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Perkins, Norman P.; Luke, Roger D.; and Kaufman, Steven A., to Siemens Energy & Automation, Inc. Fastener having dual teeth. 4,636,915, 1-13-87, Cl. 361-355.000.
Perkins, Patrick D.: *See*—
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Perkins, Thomas K., to Atlantic Richfield Company. Energy efficient process for viscous oil recovery. 4,679,626, 7-14-87, Cl. 166-248.000.
Perkins, Thomas K., to Atlantic Richfield Company. Method of cold water enhanced hydraulic fracturing. 4,705,113, 11-10-87, Cl. 166-302.000.
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Perkins, Warren E. Method and means for dispensing respirating gases by effecting a known displacement. 4,705,034, 11-10-87, Cl. 128-204.210.
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Perkitny, Jerzy; and Chanter, Edward G., to Those Characters From Cleveland, Inc. Toy doll or article with manipulative appendage. 4,685,893, 8-11-87, Cl. 446-319.000.
Perkola, Markku, to Yhtyneet Paperitehtaat Oy Jylhavaara. Disc cutter with exhaust channels. 4,676,440, 6-30-87, Cl. 241-261.300.
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Perlin, Alfred R., to Metatech Corporation. Fiber optic light coupling assemblies. 4,676,584, 6-30-87, Cl. 350-96.150.
Perlin, Alfred R., to Metatech Corporation. Fiber optic transducers with improved sensitivity. 4,678,902, 7-7-87, Cl. 250-227.000.
Perlini, Roberto. Anchoring system for vehicle axles. 4,660,851, 4-28-87, Cl. 280-673.000.
Perlman, Daniel, to Brandeis University. Methods for isolating mutant microorganisms from parental populations. 4,649,109, 3-10-87, Cl. 435-30.000.
Perlman, Eugene H.; and MacNaughton, Laurence, III, to Digital Associates Corporation. Controller system or emulating local parallel minicomputer/printer interface and transferring serial data to remote line printer. 4,641,263, 2-3-87, Cl. 364-900.000.
Perlman, Stuart S.; Eisenhandler, Sanford; Lyons, Paul W.; and Shumila, Michael J., to RCA Corporation. Adaptive median filter system. 4,682,230, 7-21-87, Cl. 358-167.000.
Perlman, William. Multiple-stage coal seam fracing method. 4,665,990, 5-19-87, Cl. 166-307.000.
Perlmutter, Robert J., to Stanford University. Optical-digital hologram recording. 4,701,006, 10-20-87, Cl. 350-3.660.
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Perloff, David S.: *See*—
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Perlov, Craig M.; and Calderon, Arthur, Jr., to Magnetic Peripherals Inc. Thin film vertical recording head. 4,667,260, 5-19-87, Cl. 360-122.000.
Perlov, Gena; and Tuchman, Samuel. Electrodynamic peristaltic fluid transfer device and method. 4,697,989, 10-6-87, Cl. 417-53.000.
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Perma Pure Products, Inc.: *See*—
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Bernardot, Christian, 4,679,828, Cl. 285-175.000.
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Permer, Christer, to Lars Ljungberg, Lab Trade AB. Metering valve. 4,660,424, 4-28-87, Cl. 73-864.830.
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Perna, Dominic R., to Du Pont de Nemours, E. I., and Company. Polyimide covered calender rolls. 4,705,711, 11-10-87, Cl. 428-141.000.
Perna, Fred P. Foldable eyeshade. 4,694,506, 9-22-87, Cl. 2-12.000.
Pernat, Alfred; Millar, Thomas D., deceased; and by Millar, June A., personal representative. Pressure regulating system. 4,631,778, 3-24-87, Cl. 137-489.000.
Perne, Raymond; and Huitel, Jean, to Astraplastique & Societe Anonyme des Eaux Minerales d'Evian. Closure device for bottles comprising a screwable cap. 4,699,285, 10-13-87, Cl. 215-252.000.
Perne, Raymond: *See*—
Bonnenfant, Yvon; Odet, Philippe; Perne, Raymond; and Thevenot, Claude, 4,679,696, Cl. 215-252.000.
Perneczky, George C. Self-adjusting conveyor belt cleaning apparatus. 4,633,999, 1-6-87, Cl. 198-499.000.
Pernemalm, Per-Ake; Carlsson, Mats; and Lindgren, Goran, to Pharmacia AB. Polysaccharide crosslinked separation material and its preparation. 4,665,164, 5-12-87, Cl. 536-120.000.
Perner, Johannes: *See*—
Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, 4,693,848, Cl. 260-402.000.
Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, 4,695,412, Cl. 260-507.00R.
Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, 4,705,649, Cl. 260-402.000.
Denzinger, Walter; Hartmann, Heinrich; Hettche, Albert; Kaluza, Ulrich; Perner, Johannes; and Vamvakaris, Christos, 4,647,396, Cl. 252-174.240.
Sommer, Karl; Heinz, Robert; Hettche, Albert; Perner, Johannes; Schuster, Werner; and Trieselt, Wolfgang, 4,695,397, Cl. 252-182.000.
Pernet, Andre G.: *See*—
Freiberg, Leslie A.; Gracey, Howard E.; and Pernet, Andre G., 4,681,872, Cl. 514-29.000.
Pernetti, Claudio: *See*—
Magni, Eugenio; and Pernetti, Claudio, 4,668,241, Cl. 8-638.000.
Pernicano, Vincent S. Stretch transfer and method of making same. 4,657,803, 4-14-87, Cl. 428-200.000.
Pernicano, Vincent S. Heat transfer sheeting having release agent coat. 4,664,735, 5-12-87, Cl. 156-240.000.
Pernick, Bruce M. Seamless knit composite garment blank and method. 4,682,479, 7-28-87, Cl. 66-176.000.
Pernot, Jacques, to Micro-Mega. System of coupling of the head of a counter-angle to the body of counter-angle. 4,657,427, 4-14-87, Cl. 403-321.000.
Pernot, Jacques, to Micro-Mega S.A. Gear ratio step-down or step-up device for dental handpiece. 4,693,685, 9-15-87, Cl. 433-105.000.
Pernot, Jean-Michel: *See*—
Taurin, Michel; Pernot, Jean-Michel; and Marie, Gerard J. M., 4,659,875, Cl. 380-19.000.
Perntz, Carl-Gunnar E.; and Roos, Sture G., to Telefonaktiebolaget LM Ericsson. Synchronization apparatus in transmitting information on a simplex bus. 4,646,291, 2-24-87, Cl. 370-85.000.
Pernu, Heikki: *See*—
Rautakorpi, Paavo; Manttari, Risto; Liimatainen, Heikki; Pernu, Heikki; Tuomainen, Heikki; and Rusanen, Hannu, 4,708,011, Cl. 73-63.000.
Perny, Didier, to Thomson-CSF. Visual display process for sonars. 4,642,801, 2-10-87, Cl. 367-88.000.
Pero, Edward B.: *See*—
Burr, Donald N.; Danilowicz, Paul S.; Franz, Thomas C.; Mortimer, Thomas P.; and Pero, Edward B., 4,696,156, Cl. 60-39.080.
Perobelli, Aldo: *See*—
Pessina, Giorgio; and Perobelli, Aldo, 4,674,733, Cl. 271-3.100.
Pessina, Giorgio; and Perobelli, Aldo, 4,699,349, Cl. 248-646.000.
Peron, Jean-Yves, to Ecole Nationale d'Ingenieurs des Travaux. Clone of the sea kale (*Crambe maritima L.*), and process for vegetative propagation thereof. 4,665,031, 5-12-87, Cl. 435-240.000.
Peroni, Peter A., to LaFrance Corporation. Emblem mounting assembly. 4,691,457, 9-8-87, Cl. 40-20.00A.
Perono, Rene: *See*—
Gongora, Henri; Lalanne, Henri; and Perono, Rene, 4,645,648, Cl. 422-186.000.
Perosino, Alessandro, to Gate S.p.A. Axial fan, particularly for motor vehicles. 4,684,324, 8-4-87, Cl. 416-189.000.
Perotti, Andre: *See*—
Kohler, Fritz; and Perotti, Andre, 4,644,763, Cl. 66-75.200.
Perotto, Christian; and Ragon, Philippe, to Societe Nationale des Poudres et Explosifs. Process for the solvent-free manufacture of compound pyrotechnic products containing a thermosetting binder and products thus obtained. 4,657,607, 4-14-87, Cl. 149-19.400.
Peroutky, Donald C.: *See*—
Case, Allen W., Jr.; Lund, Richard M.; Miller, Stuart G.; and Peroutky, Donald C., 4,664,587, Cl. 414-680.000.
Peroxid-Chemie GmbH: *See*—
Doetsch, Werner; and Siegel, Rudolf, 4,681,748, Cl. 423-279.000.
Perra, Raymond C.; Wilmot, Stephen B.; and Games, John E., to United Technologies Corporation. EAROM and EEPROM data storage management. 4,638,430, 1-20-87, Cl. 364-300.000.
Perratone, Rene; and Poldervaart, Leendert, to Single Buoy Moorings Inc. Rotatable pipe coupling for a plurality of incoming and a plurality of outgoing pipes. 4,635,971, 1-13-87, Cl. 285-134.000.
Perraudin, Claude, to C.G.R. MeV. Particle accelerator with frequency correction. 4,656,394, 4-7-87, Cl. 315-5.410.
Perraudin, Hubert A., to Equipements Automobiles Marchal. Method of cutting a worm screw and a worm screw obtained by the said method. 4,683,785, 8-4-87, Cl. 82-1.00C.
Perraudin, Hubert A., to Equipements Automobiles Marchal. Method and device for finishing by burnishing of a helical thread cut on a cylindrical component. 4,706,483, 11-17-87, Cl. 72-84.000.
Perrault, George E.: *See*—
Calkins, Noel C.; and Perrault, George E., 4,688,537, Cl. 123-557.000.
Perregaard, Jens K., to H. Lundbeck A/S. 1-(4'-fluorophenyl)-3,5-substituted indoles useful in the treatment of psychic disorders and pharmaceutical compositions thereof. 4,710,500, 12-1-87, Cl. 514-254.000.
Perrella, Guido; and Thompson, William E., to DBM Industries Limited. Die casting mold. 4,637,451, 1-20-87, Cl. 164-342.000.
Perret, Maurice. Anti-theft device for automotive vehicles acting on the hydraulic braking circuit. 4,669,570, 6-2-87, Cl. 180-287.000.
Perret, Michel, to Alsthom. Compressed gas high tension circuit breaker, requiring low operating energy. 4,650,942, 3-17-87, Cl. 200-148.00A.
Perret, Michel: *See*—
Thuries, Edmond; and Perret, Michel, 4,650,941, Cl. 200-148.00A.
Perret, Yves: *See*—
Chantriaux, Eric; Grobelny, Henri; and Perret, Yves, 4,666,667, Cl. 423-127.000.
Perrey, Hermann: *See*—
Brinkmeyer, Hermann; Hubler, Gerhard; Perrey, Hermann; Nippe, Burkhard; and Kober, Heinrich, 4,687,709, Cl. 428-425.900.
Perri, Joseph: *See*—
LaBate, Micheal D.; and Perri, Joseph, 4,640,498, Cl. 266-272.000.
Perri, Joseph A.: *See*—
Labate, Michael D.; and Perri, Joseph A., 4,657,184, Cl. 266-270.000.
La Bate, Michael D., II; and Perri, Joseph A., 4,637,592, Cl. 266-272.000.
Perrich, Jerry R., to North American Carbon, Inc. Vertical column contactor. 4,670,153, 6-2-87, Cl. 210-661.000.
Perricone, Alphonse C.: *See*—
Clapper, Dennis K.; Perricone, Alphonse C.; and Salisbury, Darrel P., 4,663,076, Cl. 252-356.060.
Perrier, Hubert; and Faucon, Didier, to Laboratoire Central des Ponts et Chaussees. Method and device for placing a construction material in a liquid environment. 4,674,917, 6-23-87, Cl. 405-223.000.
Perrier, Pierre P.: *See*—
Palmier, Rene G.; Perrier, Pierre P.; and Phounsombath, Sing K., 4,686,501, Cl. 335-256.000.
Perriera, Noel D.: *See*—
Tucker, Michael; and Perriera, Noel D., 4,662,752, Cl. 356-375.00.
Perrin, Alain; and Moinard, Patrice, to Societe Anonyme D.B.A. Device for mounting a protective cap on a support. 4,637,747, 1-20-87, Cl. 403-23.000.
Perrin, David P.: *See*—
Jackson, Melvin R.; Siemers, Paul A.; and Perrin, David P., 4,669,212, Cl. 42-76.020.
Perrin, Denis. Flame shield for cigarette lighter and cigarette lighter including said flame shield. 4,640,679, 2-3-87, Cl. 431-146.000.
Perrin, Jean. Device for connection between a traction cable and a bicycle with automatic and manual disengagement. 4,681,558, 7-21-87, Cl. 104-193.000.
Perrin, Marilyn H.: *See*—
Rivier, Jean E. F.; Varga, Janos I.; Hagler, Arnold T.; Struthers, R. Scott; Perrin, Marilyn H.; Rivier, Catherine L.; and Vale, Wylie W., Jr., 4,661,472, Cl. 514-15.000.
Perrine, James J., to Questek Corp. Pre-ski testing and exercising apparatus. 4,708,339, 11-24-87, Cl. 272-97.000.

Perrine, Neill D.: *See—*
Rogers, Russell L.; Perrine, Neill D.; and Alexander, Richard M., 4,639,016, Cl. 285-15.000.

Perrini, Ralph: *See—*
McCarty, Steven; and Perrini, Ralph, 4,675,053, Cl. 134-21.000.

Perrins, Leslie A.: *See—*
Graham, Thomas; Perrins, Leslie A.; and Morris, Kevin, 4,691,838, Cl. 220-93.000.

Perrissin-Fabert, Jean: *See—*
Fourtey, Francois; and Perrissin-Fabert, Jean, 4,645,263, Cl. 297-366.000.

Perrissoud, Claude: *See—*
Benoit, Louis; and Perrissoud, Claude, 4,665,635, Cl. 36-120.000.

Perron, Gilbert: *See—*
Coppens, Christian; Perron, Gilbert; and Pouillard, Jean, 4,685,100, Cl. 370-58.000.

Perrone, Ettore; Alpegiani, Marco; Zarini, Franco; Bruna, Costantino D.; and Franceschi, Giovanni, to Farmitalia Carlo Erba S.p.A. Penem derivatives. 4,713,378, 12-15-87, Cl. 514-192.000.

Perrone, Ettore: *See—*
Alpegiani, Marco; Bedeschi, Angelo; Foglio, Maurizio; Franceschi, Giovanni; and Perrone, Ettore, 4,713,450, Cl. 540-214.000.

Perrone, George L.: *See—*
Clark, Jim C.; and Perrone, George L., 4,662,817, Cl. 415-1[illegible].

Perrone, Nicholas: *See—*
Neubert, Vernon H.; and Perrone, Nicholas, 4,711,424, Cl. 248-636.000.

Perrot, Jean-Claude: *See—*
Canborde, Jean-Marc; Schirlin, Marcel; and Perrot, Jean-Claude, 4,654,862, Cl. 375-10.000.
Renaud, Jean-Marie; Garibs, Paul; Perrot, Jean-Claude; and Taillebois, Jacques, 4,713,541, Cl. 250-231.05E.

Perrot, Pierre; and Vuillemey, Georges, to Rhone-Poulenc Fibres. Masterbatches for delustring polyamides. 4,710,535, 12-1-87, Cl. 524-413.000.

Perrott, Charles H., to Precision Plumbing Products, Inc. Floating seal valve assembly. 4,644,972, 2-24-87, Cl. 137-883.000.

Perrott, Charles H., to C. H. Perrott, Inc. Vacuum-breaking valve for pressurized fluid lines. 4,712,574, 12-15-87, Cl. 137-217.000.

Perrott, Francis C. Vehicle supported in cantilever fashion and switching of at rail divergent junctions. 4,702,173, 10-27-87, Cl. 104-130.000.

Perruc, Jean: *See—*
Maugenet, Gerard Y.; Perruc, Jean; and Vaerman, Jean F., 4,669,104, Cl. 378-58.000.

Perry, Arthur H. Sliding door. 4,702,514, 10-27-87, Cl. 296-146.000.

Perry, Charles D., III. Eyeglass retainer. 4,696,556, 9-29-87, Cl. 351-157.000.

Perry, Charles H.: *See—*
Bezama, Raschid J.; and Perry, Charles H., 4,684,339, Cl. 425-389.000.

Perry, David A.; and Stratton, Richard D., to Perkins Industries, Inc. Treatment of wood veneers in plywood manufacturing. 4,678,532, 7-7-87, Cl. 156-314.900.

Perry, David L.: *See—*
Johnson, Robert C.; Perry, David L.; and Peitsch, Bernd E., 4,634,971, Cl. 324-133.000.

Perry, David S.: *See—*
Heil, Robert F.; and Perry, David S., 4,648,825, Cl. 425-186.000.

Perry, Derick A., to Rolls-Royce plc. Rotor aerofoil blade containment. 4,643,647, 2-17-87, Cl. 416-230.000.

Perry, Derick A., to Rolls-Royce plc. Rotor aerofoil blade containment. 4,664,600, 5-12-87, Cl. 416-224.000.

Perry, Derick A.: *See—*
Angus, James P.; and Perry, Derick A., 4,685,864, Cl. 416-229.00R.

Perry, Donald A.; and Wright, H. Earl, to Earl Wright Company. Touch enhancing pad. 4,657,021, 4-14-87, Cl. 128-630.000.

Perry, Duane: *See—*
Stevens, Ray; and Perry, Duane, 4,686,460, Cl. 324-142.000.

Perry, Edward C.: *See—*
Chiesa, Alan F.; Medendorp, LeRoy E.; Perry, Edward C.; and Schweikert, John F., 4,671,107, Cl. 73-118.200.

Perry, Edward J.; and Coleman, Anthony R., to Kims Developments Limited. Purification of carbon dioxide for use in brewing. 4,699,642, 10-13-87, Cl. 62-541.000.

Perry, Forbes G. D. B., to National Research Development Corporation. Automotive transmissions of the rolling traction type. 4,713,578, 12-22-87, Cl. 74-200.000.

Perry, Frederick J., to Westland plc. Helicopter rotor blade. 4,668,169, 5-26-87, Cl. 416-223.00R.

Perry, James E. Steam powered heating/cooling systems. 4,665,709, 5-19-87, Cl. 62-141.000.

Perry, John F. Hand tool for finishing corners and the like with a cementious material. 4,669,970, 6-2-87, Cl. 425-458.000.

Perry, John S., to United States of America, Army. Structural external insulation for hypersonic missiles. 4,706,912, 11-17-87, Cl. 244-158.00A.

Perry, Matthew J., to Baxter Travenol Laboratories, Inc. Multicuvette rotor assembly. 4,678,331, 7-7-87, Cl. 356-246.000.

Perry, Mordechai; Kotraro, Reuven; Linder, Charles; and Aviv, Gershon, to Aligena AG. Dynamically formed membranes. 4,659,474, 4-21-87, Cl. 210-638.000.

Perry, Mordechai: *See—*
Linder, Charles; Aviv, Gershon; Perry, Mordechai; and Kotraro, Reuven, 4,690,765, Cl. 210-654.000.
Linder, Charles; Aviv, Gershon; Perry, Mordechai; and Kotraro, Reuven, 4,690,766, Cl. 210-654.000.

Perry, Nigel D.: *See—*
Tobin, Roderick C.; and Perry, Nigel D., 4,641,313, Cl. 372-56.000.

Perry, Patricia, to Butterick Company, Inc. Measuring device for clothing patterns. 4,651,427, 3-24-87, Cl. 33-2.00R.

Perry, Peter J.: *See—*
Mills, Ronald E.; and Perry, Peter J., 4,712,823, Cl. 296-37.800.

Perry, Richard C. Water heater cleaning apparatus. 4,714,053, 12-22-87, Cl. 122-382.000.

Perry, Richard W.; Chang, John; and Dixon, Robert C., to General Electric Company. Jet pump beam holder/positioner tool. 4,675,149, 6-23-87, Cl. 376-260.000.

Perry, Robert D. Sexual erection prothesis and method of use. 4,641,638, 2-10-87, Cl. 128-79.000.

Perry, Roger A. Tool carrier. 4,638,530, 1-27-87, Cl. 24-3.00L.

Perry, Scott. Manhole cover lifter. 4,650,232, 3-17-87, Cl. 294-15.000.

Perry, Steven B., to Keptel, Inc. Telephone off-hook detector circuit. 4,656,700, 8-11-87, Cl. 379-183.000.

Perry, Steven B.: *See—*
Lynch, Daniel; and Perry, Steven B., 4,679,224, Cl. 379-26.000.
Lynch, Daniel; and Perry, Steven B., 4,701,949, Cl. 379-179.000.

Perry, Thomas J.: *See—*
Burlingame, Christopher M.; and Perry, Thomas J., 4,677,436, Cl. 340-825.790.

Perry, W. Wesley: *See—*
Davis, Kenneth, 4,654,947, Cl. 29-402.080.
Davis, Kenneth, 4,654,948, Cl. 29-402.080.

Perry, William D.: *See—*
Moyer, Mark C.; Perry, William D.; Silvus, H. Stanley, Jr.; Gibson, William C.; and Kusenberger, Felix N., deceased, 4,675,604, Cl. 324-220.000.

Persang, Joseph C.: *See—*
Burns, David C.; Kauric, Charles E.; and Persang, Joseph C., 4,672,162, Cl. 219-69.00R.

Persbeck, Sven-Erik, to Hermansson, Mats. Securing arrangement so executed as to be tripped on actuation. 4,690,091, 9-1-87, Cl. 114-221.00A.

Persch, Alois, to Zeller Plastik Koehn, Graebner & Co. Tamper proof closure. 4,638,917, 1-27-87, Cl. 215-252.000.

Persechini, David L.: *See—*
Tangonan, Gregory L.; Yen, Huan-Wun; and Persechini, David L., 4,711,514, Cl. 350-96.120.

Persem, Jake; Quinn, Mike; Emery, Walter C.; and Bracht, Philip E., to Margaux Controls, Inc. Unequal compressor refrigeration control system. 4,633,672, 1-6-87, Cl. 62-126.000.

Pershak, William C.: *See—*
Phipps, Cornelius M.; and Pershak, William C., 4,694,960, Cl. 206-469.000.

Pershall, Faith, to F.P.D. Future Patents Development Company S.A. Device for mixing and spraying a mixture composed of at least two components, such as liquids, and a propellant. 4,666,062, 5-19-87, Cl. 222-82.000.

Persicke, Gunter; Child, James R.; and Baker, Peter F., to Quinton Hazell plc. Vehicle suspension system. 4,700,815, 10-20-87, Cl. 188-286.000.

Persico, Daniel F.: *See—*
Lagow, Richard J.; and Persico, Daniel F., 4,675,452, Cl. 568-601.000.

Persidsky, Maxim: *See—*
Borodulin, German; Persidsky, Maxim; and Shkolnik, Alexander, 4,705,029, Cl. 128-43.000.

Persing, Thomas E.: *See—*
Hyde, A. P. Stanley; Persing, Thomas E.; and Helm, Eugene C., 4,669,035, Cl. 362-326.000.

Persinski, Leonard J.; Walker, Jerry L.; and Boffardi, Bennett P., to Calgon Corporation. Synergistic scale and corrosion inhibiting admixtures containing carboxylic acid/sulfonic acid polymers. 4,640,793, 2-3-87, Cl. 252-82.000.

Person, Eric N.: *See—*
Luperti, Harry E.; Person, Eric N.; and Simmel, Thomas, 4,715,164, Cl. 53-381.00R.

Person, Herman R., to Dale Electronics, Inc. Thick film delay line comprising a plurality of stacked delay assemblies formed by a printing process. 4,641,114, 2-3-87, Cl. 333-161.000.

Person, Herman R.; Raesner, Dennis L.; and Meints, Gayle L., to Dale Electronics, Inc. Plasma display having heater and method of making same. 4,692,655, 9-8-87, Cl. 313-15.000.

Person, Joel I.; and Gjelsvik, Atle, to Person, Joel I. Composite floor system. 4,700,519, 10-20-87, Cl. 52-334.000.

Person, Stanley. Immunologically reactive non-glycosylated amino acid chains of glycoprotein B of herpes virus types 1 and 2. 4,643,333, 2-10-87, Cl. 530-350.000.

Personal Diagnostics, Inc.: *See—*
Meserol, Peter M.; Acker, Jesse L.; Murnick, Janet G.; and Pappas, Dean, 4,666,853, Cl. 435-290.000.

Personal Products Company: *See—*
Becker, Patricia E.; and Molee, Kenneth J., 4,648,876, Cl. 604-370.000.
Becker, Patricia E.; and Molee, Kenneth J., 4,657,538, Cl. 604-381.000.
Dabi, Shmuel, 4,645,789, Cl. 524-379.000.
DeRossett, Edmund Z.; and Lucero, Thomas J., 4,710,186, Cl. 604-383.000.
Erdman, Edward P.; and Pieniak, Heinz A., 4,676,784, Cl. 604-368.000.
Holtman, Dennis C., 4,678,464, Cl. 604-385.00R.
Holtman, Dennis C., 4,685,914, Cl. 604-368.000.

Luceri, Thomas J., 4,654,040, Cl. 604-385.00R.
Makoui, Kambiz B.; and Chatterjee, Pronoy K., 4,689,118, Cl. 162-100.000.
Menard, Michael J.; Helmstetter, Thomas J., Sr.; and Johnson, David E., 4,699,808, Cl. 427-180.000.
Mesek, Frederick K., 4,670,011, Cl. 604-378.000.
Spano, John D., 4,677,810, Cl. 53-428.000.
Stern, Beth A.; and Holtman, Dennis C., 4,681,577, Cl. 604-378.000.
Ulman, John, 4,678,527, Cl. 156-213.000.

Personal Products, Inc.: *See*—
Glaug, Frank S.; Luceri, Thomas J.; and Parr, Deborah J., 4,701,178, Cl. 604-387.000.

Personick, Stewart D., to Bell Communications Research, Inc. Shared laser lightwave transmission systems. 4,642,804, 2-10-87, Cl. 370-3.000.

Personick, Stewart D.: *See*—
Cheng, Steven S.; Lipson, Jan; and Personick, Stewart D., 4,658,394, Cl. 370-3.000.

Personics Corporation: *See*—
Davison, Keith K., 4,682,159, Cl. 340-709.000.

Personnat, Jean C. M.: *See*—
Poldervaart, Leendert; Personnat, Jean C. M.; and Quinti, Roland P. O., 4,686,924, Cl. 114-219.000.
Poldervaart, Leendert; and Personnat, Jean C. M., 4,694,771, Cl. 114-230.000.

Personnet, Pierre-Bernard; and Philbert, Jean-Michel, to Uranium Pechiney. Pretreatment by alkaline wetting and holding at temperature of natural materials having an argillaceous gangue containing combustible elements. 4,702,820, 10-27-87, Cl. 208-424.000.

Persons, Garry R.: *See*—
Hymes, Alan C.; Ong, Lincoln T.; and Persons, Garry R., 4,675,009, Cl. 604-304.000.

Persons, Thomas H. Wheel hub with lubrication fittings. 4,636,007, 1-13-87, Cl. 301-105.00R.

Persson, Agne. Apparatus for feeding fish to a fish processing machine. 4,651,385, 3-24-87, Cl. 17-55.000.

Persson, Alfred V.: *See*—
Newman, Warren; and Persson, Alfred V., 4,676,253, Cl. 128-693.000.

Persson, Bendt: *See*—
Lande, Goran; and Persson, Bendt, 4,641,775, Cl. 228-2.500.

Persson, Bengt, to Nitro Nobel AB; and AB Volvo. Joint between two preferably metallic pipes and method of producing said joint. 4,669,649, 6-2-87, Cl. 228-107.000.

Persson, Bertil. Lifting apparatus. 4,692,084, 9-8-87, Cl. 414-607.000.

Persson, Bertil: *See*—
Hall, Sture; and Persson, Bertil, 4,648,762, Cl. 409-138.000.

Persson, Carl G. A.: *See*—
Kjellin, Per G.; and Persson, Carl G. A., 4,644,001, Cl. 514-263.000.

Persson, Eric G.; and Veith, Ronald D., to GTO Electronics. Voltage inverter. 4,639,845, 1-27-87, Cl. 363-26.000.

Persson, Gert, to Dynapac AB. Rotary tool. 4,634,188, 1-6-87, Cl. 299-39.000.

Persson, Gleelynn W., to Performance Technology, Inc. Grain temperature monitor. 4,699,519, 10-13-87, Cl. 374-111.000.

Persson, Gustav L.: *See*—
Willman, Nils-Erik; Sjogren, Bengt C. H.; Nordh, Lennart G.; Persson, Gustav L.; and Sjoholm, Goran H., 4,645,758, Cl. 514-239.000.

Persson, Karl-Gustav, to IKO Kabel AB. Device for fire fighting. 4,693,422, 9-15-87, Cl. 239-195.000.

Persson, Kjell A.: *See*—
Alfredsson, Alf I.; and Persson, Kjell A., 4,693,579, Cl. 354-173.100.

Persson, Per G.: *See*—
Sagefors, Karl I.; and Persson, Per G., 4,708,523, Cl. 405-55.000.

Persson, Per-Lennart: *See*—
Strand, Rolf E.; and Persson, Per-Lennart, 4,667,875, Cl. 236-46.00R.

Persson, Sture V. Electrode for measuring the relative permittivity of a substance. 4,677,522, 6-30-87, Cl. 361-280.000.

Persson, Svens A. R.: *See*—
Rogstadius, John F. I.; Lindstrom, Bengt O.; and Persson, Svens A. R., 4,666,243, Cl. 350-96.210.

Persson, Tyko; Duc, Heribert; and Buhler, Marcel, to Nestec S.A. Biscuit process. 4,650,685, 3-17-87, Cl. 426-285.000.

Persyk, Dennis E., to Siemens Gammasonics, Inc. Imaging dynodes arrangement. 4,649,268, 3-10-87, Cl. 250-207.000.

Persyk, Dennis E., to Siemens Gammasonics, Inc. Dynodes arrangement for an electron multiplier. 4,649,269, 3-10-87, Cl. 250-207.000.

Persyk, Dennis E.; and Stoub, Everett W., to Siemens Gammasonics, Inc. Scintillation crystal for a radiation detector. 4,656,359, 4-7-87, Cl. 250-486.100.

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Peterman, Charles P.; and Keithahn, Julian D., to Hydril Company. Flow control apparatus. 4,635,678, 1-13-87, Cl. 137-551.000.
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Peterman, Robert J., to Spacesaver Corporation. Modular floor. 4,693,418, 9-15-87, Cl. 238-10.00R.
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Peterman, Stanley; Orrestad, Charles W.; and Iwanczuk, Paul, to Quinton Instrument Company. Radiotransparent lead assembly for monitoring electrodes. 4,637,672, 1-20-87, Cl. 339-61.00R.
Petermann, Harald; and Bauer, Peter, to GMN Georg Muller Nurnberg GmbH. Apparatus for spanning a center-opening saw blade. 4,637,369, 1-20-87, Cl. 125-15.000.
Petermann, Juergen; and Fuchs, Harald, to BASF Aktiengesellschaft. Production of a resist image. 4,647,523, 3-3-87, Cl. 430-296.000.
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Peterpaul, Joseph, to Thomas & Betts Corporation. Solar panel module and support therefor. 4,636,577, 1-13-87, Cl. 136-206.000.
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Peters, Albert W.; and MacCallum, Gregory J., to Amoco Corporation. Method for supplying a uniform liquid and gaseous mixture. 4,708,787, 11-24-87, Cl. 208-130.000.
Peters, Arthur, to Honeywell Information Systems Inc. Wrap-around logic for interprocessor communications. 4,639,860, 1-27-87, Cl. 364-200.000.
Peters, Bruce C.; Mayes, M. Dale; Gross, Richard M.; and Pearson, Stanley R., to Dow Chemical Company, The. Vessel having a molten material outlet. 4,653,677, 3-31-87, Cl. 222-591.000.
Peters, David; Denick, John, Jr.; and Talwar, Anil K., to Warner-Lambert Company. Magnesium trisilicate suitable for preparation of medicament adsorbates of antihistamines. 4,642,231, 2-10-87, Cl. 424-15.000.
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Peters, Donald L., to Phillips Petroleum Company. Method for blow molding. 4,650,627, 3-17-87, Cl. 264-529.000.

Peters, Douglas C.; and Hansen, Charles S., to Dahlquist, Art. Device for transporting trees and the like. 4,709,955, 12-1-87, Cl. 296-3.000.

Peters, Edward N., to General Electric Company. Poly(etherimide-carbonate) block copolymers and polymer blends coataining same. 4,657,977, 4-14-87, Cl. 525-92.000.

Peters, Edward N., to General Electric Company. Pol;carbonate-polyether block copolymers, polymer blends containing same and intermediates for the production thereof. 4,663,399, 5-5-87, Cl. 525-462.000.

Peters, Edward N., to General Electric Company. Process for the preparation of n-alkylphthalimide and copolymer derived therefrom. 4,675,376, 6-23-87, Cl. 528-185.000.

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Peters, Erwin, to W. Schlafhorst & Co. Spinning machine. 4,683,712, 8-4-87, Cl. 57-81.000.

Peters, Franz J., to Pool Patent- und Lizenzverwaltungs-GmbH. Interchangeable barrel for Colt self-loading pistols. 4,707,942, 11-24-87, Cl. 42-77.000.

Peters, Gary P., to United Technologies Corporation. Rotating seal for gas turbine engine. 4,645,424, 2-24-87, Cl. 416-198.00A.

Peters, Gerald; Hayton, Eugene P.; and Failor, Raymond A., to Simmons Universal Corporation. Armboard rail. 4,641,385, 2-10-87, Cl. 5-82.00R.

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Peters, Gilbert A., and Mitchell, J. Brooks. Computer controlled key management system. 4,661,806, 4-28-87, Cl. 340-568.000.

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Peters, Hubertus: *See*—
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Peters, Jerry L.: *See*—
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Peters, Joerg: *See*—
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Peters, John L.: *See*—
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Peters, John W., to Hughes Aircraft Company. Process for depositing a conductive oxide layer. 4,652,463, 3-24-87, Cl. 427-53.100.

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Peters, Klaus-Jurgen, to Robert Bosch GmbH. Method and fuel in tion system for fuel supply to a mixture-compressing internal com tion engine having externally supplied ignition. 4,694,808, 9-22-87 123-453.000.

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Peters, Manfred: *See*—
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Peters, Mark C. Fastening overlaying sheets by punch and die app tus. 4,709,458, 12-1-87, Cl. 29-243.500.

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Peters, Michael A.: *See*—
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Peters, Michael R., to Pearl Enterprises, Inc. Mounting system for c mechanism. 4,645,355, 2-24-87, Cl. 368-88.000.

Peters, Rex B., to Sundstrand Data Control, Inc. Automatic contin nulling of angular rate sensor. 4,665,748, 5-19-87, Cl. 73-505.000

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Peters, Richard: *See*—
Crowe, David F.; Tanabe, Masato; and Peters, Richard, 4,705, Cl. 514-180.000.

Peters, Richard D., to D. L. Auld Company, The. Lock cover me nism. 4,674,308, 6-23-87, Cl. 70-455.000.

Peters, Richard E.; and Parlette, Larry J. Combination access box bed liner for vehicles. 4,681,360, 7-21-87, Cl. 296-37.600.

Peters, Robert; Schulte, Klaus; Sachs, Hanns I.; and Kasperek, Pete Bayer Aktiengesellschaft. Process and apparatus for the prepara of mixtures of isocyanate and water which are stable for a short for glueing particulate material, in particular chips, fibers or the 4,652,595, 3-24-87, Cl. 523-315.000.

Peters, Ronald: *See*—
Peters, Rudolph; Peters, Ronald; and Taylor, William, 4,712, Cl. 128-325.000.

Peters, Ronald L.: *See*—
Peters, Rudolph; Peters, Ronald L.; and Taylor, William, 4,646, Cl. 128-325.000.

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Peters, Rudolf: *See*—
Upmeier, Hartmut; and Peters, Rudolf, 4,682,941, Cl. 425-72.0

Peters, Rudolph; Peters, Ronald L.; and Taylor, William, to Edw Weck & Company, Inc. Automatic hemoclip applier. 4,646, 3-3-87, Cl. 128-325.000.

Peters, Rudolph; Peters, Ronald; and Taylor, William, to Edward W & Co. Automatic hemostatic clip applier. 4,712,549, 12-15-87, 128-325.000.

Peters, Shelby L. Retractable trolling motor assembly. 4,708, 11-24-87, Cl. 440-6.000.

Peters, Stanley T.; Kolek, Robert L.; Guenther, Rolf A.; Anders Jeffrey J.; and Marshall, Clarence F., to Westinghouse Electric Co Method of forming a joint between a tubular composite and a m ring. 4,701,231, 10-20-87, Cl. 156-172.000.

Peters, Thomas E.; and Pappalardo, Romano G., to GTE Laborato Incorporated. Process for producing Ce-Mn coactivated fluoro tite phosphors as the yellow emitting component for high effic lamp blends. 4,647,399, 3-3-87, Cl. 252-301.40P.

Peters, Thomas E.: *See*—
Talbott, John W.; Peters, Thomas E.; and Logan, James 4,664,856, Cl. 264-24.000.

Peters, Thomas L.; and Stevens, Timothy S., to Dow Chemical C pany, The. Apparatus and method for membrane-permeation sepa tions using segmented flow. 4,684,470, 8-4-87, Cl. 210-639.000.

Peters, Tulley M.; and Bruce, William C., Jr., to Motorola, Inc. L double test instruction. 4,679,194, 7-7-87, Cl. 371-16.000.

Peterscheck, Hermann: *See*—
Atwood, Mark T.; Carlson, Frank; and Peterscheck, Herma 4,692,252, Cl. 210-761.000.

Petersdorf, Gerhard, to Canon Kabushiki Kaisha. Sheet copying vice. 4,685,664, 8-11-87, Cl. 271-227.000.

Petersen, Alan, to Spectra-Physics, Inc. Detector device for a rotati light beam. 4,676,634, 6-30-87, Cl. 356-4.000.

Petersen, Alan B.; Rempel, Robert C.; Lastovka, Joseph B.; Head, David F.; and Carlson, Lee R., to Spectra-Physics, Inc. Crystalline quartz laser window assembly. 4,677,640, 6-30-87, Cl. 372-103.000.

Petersen, Alan B.: *See*—
DeBell, Gary W.; Wright, David L.; Ruddock, Kenneth A.; Petersen, Alan B.; Carlson, Lee R.; and von Gunten, Marc K., 4,685,110, Cl. 372-103.000.
Sheng, Shinan-Chur S.; Kaiser, Jeffrey; Jacobs, Ralph R.; and Petersen, Alan B., 4,706,256, Cl. 372-61.000.

Petersen, Arthur W.; and Smialowicz, Dennis T., to American Cyanamid Company. Compositions comprising imidazole, pyrazole or derivatives thereof for removing undesirable organic matter from a surface. 4,704,234, 11-3-87, Cl. 252-542.000.

Petersen, Bernard L.; and Kruse, Gary L., to Oliver Products Company. Countertop bread slicer. 4,662,257, 5-5-87, Cl. 83-407.000.

Petersen, C. William. Apparatus and method for sterilizing with vaporizable liquids. 4,710,350, 12-1-87, Cl. 422-37.000.

Petersen, Christian, to Petersen Manufacturing Co., Inc. Long nose locking pliers. 4,709,601, 12-1-87, Cl. 81-367.000.

Petersen, Christian C.; and Wettstein, Ernst C., to Polaroid Corporation. Method of comminuting rare earth powder for producing rare earth magnet. 4,641,787, 2-10-87, Cl. 241-5.000.

Petersen, Christian C., to Polaroid Corporation. Magnetic position indicator using multiple probes. 4,658,214, 4-14-87, Cl. 324-207.000.

Petersen, Curtis R.: *See*—
Hernandez, Paul M.; and Petersen, Curtis R., 4,636,326, Cl. 252-77.000.

Petersen, Donald R., to General Motors Corporation. Low-stress shielded exhaust passage assemblies. 4,644,747, 2-24-87, Cl. 60-322.000.

Petersen, Erling N.: *See*—
Engelstoft, Mogens; Honore, Tage; Watjen, Frank; Petersen, Erling N.; and Huth, Andreas, 4,645,773, Cl. 514-292.000.

Petersen, Gunnar C. Weighing pan and a combination weighing machine equipped with such pans. 4,660,664, 4-28-87, Cl. 177-108.000.

Petersen, H. Norman: *See*—
Breckenfeld, Paul W.; Broughton, George L.; Gibbs, Ronald E.; Macier, James E.; and Petersen, H. Norman, 4,669,988, Cl. 440-88.000.
Durham, William D.; Flaig, John D.; Petersen, H. Norman; and Young, Robert F., 4,708,673, Cl. 440-77.000.

Petersen, Harro: *See*—
Fischer, Kurt; Petersen, Harro; Kasch, Hellmuth; and Wistuba, Eckehardt, 4,644,028, Cl. 524-376.000.
Fischer, Kurt; Petersen, Harro; Loch, Werner; Kasch, Hellmuth; and Wistuba, Eckehardt, 4,663,379, Cl. 524-376.000.
Kempter, Fritz E.; Petersen, Harro; Schupp, Eberhard; Sabelus, Gunther; and Schmidt, Horst, 4,647,604, Cl. 523-402.000.

Petersen, Jacob E.; and Balzer, Daniel L., to RCA Corporation. Spacecraft support and separation system. 4,646,994, 3-3-87, Cl. 244-158.00R.

Petersen, Jorgen H.; Clausen, Peter J. M.; and Rasmussen, Hilmar O., to Danfoss A/S. Method of making fuel preparing elements for vapor burners fed with liquid fuel. 4,634,481, 1-6-87, Cl. 156-89.000.

Petersen, Jorgen H.; and Clausen, Peter J. M., to Danfoss A/S. Vapor burner for liquid fuel. 4,681,533, 7-21-87, Cl. 431-208.000.

Petersen, Jorgen H.: *See*—
Rasmussen, Hilmar O.; Petersen, Jorgen H.; Boe, Ove S.; and Clausen, Peter J. M., 4,687,893, Cl. 219-10.410.

Petersen, Karl: *See*—
Hofmeier, Gerhard; Petersen, Karl; and Schroeder, Wolfgang, 4,714,527, Cl. 204-1.00T.

Petersen, Karl D. Multiple position support structure for transporting vehicles. 4,668,141, 5-26-87, Cl. 410-12.000.

Petersen, Kurt E.: *See*—
Knutti, James W.; Allen, Henry V.; Petersen, Kurt E.; and Kowalski, Carl R., 4,680,606, Cl. 357-26.000.

Petersen Manufacturing Co., Inc.: *See*—
Petersen, Christian, 4,709,601, Cl. 81-367.000.

Petersen, Owe G.: *See*—
Andrews, George E.; Davis, Paul C.; Farley, Dennis C.; Kravitz, Stanley H.; Meeker, Thrygve R.; Petersen, Owe G.; and Schelling, Arthur W., 4,715,049, Cl. 375-106.000.

Petersen, Richard W.; and Larkin, James C., III, to Thomas & Betts Corporation. Leaded chip carrier connector. 4,676,571, 6-30-87, Cl. 439-261.000.

Petersen, Robert E. Sewer check valve with cutting seat. 4,637,425, 1-20-87, Cl. 137-412.000.

Petersen, Thomas C.: *See*—
Vervacke, Steven L.; and Petersen, Thomas C., 4,675,707, Cl. 503-214.000.

Petersen, Thomas D. Patellar resection sawguide. 4,633,862, 1-6-87, Cl. 128-92.0VY.

Petersen, Thomas D. Patellar clamp. 4,706,660, 11-17-87, Cl. 128-92.0VW.

Petersen, Uwe; Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl G., to Bayer Aktiengesellschaft. 1-Cyclopropyl-1,4-dihydro-4-oxo-7-(4-(2-oxo-1,3-dioxol-4-yl-methyl)-1-piperazinyl)-3-quinolinecarboxylic acid antibacterial agents. 4,703,047, 10-27-87, Cl. 514-254.000.

Petersen, W. Christian, to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,683,000, 7-28-87, Cl. 71-92.000.

Petersen, Wallace C., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,675,045, 6-23-87, Cl. 71-90.000.

Petersen, Wallace C., to Du Pont de Nemours, E. I., and Company. Triazine-substituted herbicidal azobenzenesulfonamides. 4,678,497, 7-7-87, Cl. 71-86.000.

Petersen, Walter J.; Svendsen, John M.; and Morand, Verne J., to Wagner Spray Tech Corporation. Heating coil assembly for a heavy duty hot air blower. 4,636,617, 1-13-87, Cl. 219-375.000.

Petersen, Walter J.; and Svendsen, John M., to Wagner Spray Tech Corporation. Hot air gun with air directing housing. 4,683,370, 7-28-87, Cl. 219-370.000.

Petersen, Wayne E.: *See*—
Riley, Elizabeth; and Petersen, Wayne E., 4,658,554, Cl. 52-309.800.
Riley, Elizabeth; and Petersen, Wayne E., 4,712,349, Cl. 52-408.000.

Petersen, Wayne E., Jr., to Dow Chemical Company, The. Wind velocity measuring apparatus. 4,658,645, 4-21-87, Cl. 73-189.000.

Petersen, William H., to Shell Offshore Inc. Buoyant member riser tensioner method and apparatus. 4,657,439, 4-14-87, Cl. 405-200.000.

Peterson American Corp.: *See*—
Gould, Kenneth E.; and Hamilton, Eugene A., 4,652,468, Cl. 427-282.000.

Peterson, Arnold D., to Allied Corporation. Linear flux switch alternator. 4,636,674, 1-13-87, Cl. 310-155.000.

Peterson, Carl Chair lift with carrying case forming platform. 4,705,142, 11-10-87, Cl. 182-150.000.

Peterson, Carl R., to Massachusetts Institute of Technology. Mining machine having vibration sensor. 4,655,082, 4-7-87, Cl. 73-594.000.

Peterson, Carlton G. Power train for heavy lift helicopters. 4,682,512, 7-28-87, Cl. 74-410.000.

Peterson, Carroll T. Locked cover for air condition responsive controller. 4,683,734, 8-4-87, Cl. 70-163.000.

Peterson, Charles A.: *See*—
Poyser, Thomas D.; Avery, Randall N.; Bankoske, John W.; Borst, John D.; Kimblin, Clive W.; Maxwell, Albert H.; McElroy, David W.; Peterson, Charles A.; Rostron, Joseph R.; Smith, David R.; South, William H.; and Thomas, Michael W., 4,654,806, Cl. 364-551.000.

Peterson, Charlie A.: *See*—
Burkman, Don C.; Schumacher, David D.; and Peterson, Charlie A., 4,682,615, Cl. 134-102.000.

Peterson, Clayton R.; and Ward, James E. Stripping machine. 4,668,017, 5-26-87, Cl. 299-37.000.

Peterson, Dale R.: *See*—
Abbott, Scot D.; Levin, Herman W.; Kobos, Robert K.; Kilkson, Henn; and Peterson, Dale R., 4,699,887, Cl. 436-70.000.

Peterson, Dean M., to Eastman Kodak Company. Variable speed video camera. 4,695,887, 9-22-87, Cl. 358-213.130.

Peterson, Dean M., to Eastman Kodak Company. Video camera with automatically variable diaphragm and shutter speed control. 4,695,888, 9-22-87, Cl. 358-213.130.

Peterson, Dean M., to Eastman Kodak Company. Variable speed video camera. 4,695,891, 9-22-87, Cl. 358-213.130.

Peterson, Dennis P. Quick release retention of work pieces. 4,690,316, 9-1-87, Cl. 224-253.000.

Peterson, Donald A., Jr.: *See*—
Yount, Larry J.; Wilt, Nicholas J.; Hill, Bryan H.; and Peterson, Donald A., Jr., 4,683,532, Cl. 364-200.000.

Peterson, Donald L.: *See*—
Alexander, Thomas A.; and Peterson, Donald L., 4,650,669, Cl. 424-44.00.

Peterson, Donald S.: *See*—
Hellekson, Ronald A.; and Peterson, Donald S., 4,709,195, Cl. 318-254.000.

Peterson, Drew, to Hall Surgical, division of Zimmer, Inc. Tubing organizer. 4,639,980, 2-3-87, Cl. 24-306.000.

Peterson, Duane G. Wire fence post bracing system. 4,679,772, 7-14-87, Cl. 256-36.000.

Peterson, Edward C.: *See*—
Johanson, Robert H.; Montgomery, Raymond M.; Herndon, Michael T.; and Peterson, Edward C., 4,715,086, Cl. 15-339.000.

Peterson, Edwin R. Take-up reel for tape containing conductors. 4,646,987, 3-3-87, Cl. 242-107.110.

Peterson, Francis C.; Rodseth, William G.; and Spring, William A., to Illinois Tool Works Inc. Printed circuit board fastener. 4,652,971, 3-24-87, Cl. 361-386.000.

Peterson, Francis C., to Illinois Tool Works Inc. Apparatus for measuring pull-out resistance. 4,662,227, 5-5-87, Cl. 73-834.000.

Peterson, Francis C., to Buell Industries, Inc. Impact plug assembly. 4,676,391, 6-30-87, Cl. 220-233.000.

Peterson, Francis C.: *See*—
Blucher, William J.; Ernst, Richard J.; and Peterson, Francis C., 4,642,012, Cl. 411-371.000.
Cearlock, Steven V.; Peterson, Francis C.; and Kunos, Gene S., 4,657,626, Cl. 156-580.000.
Cearlock, Steven V.; Peterson, Francis C.; and Kunos, Gene S., 4,676,707, Cl. 411-510.000.

Peterson, G. L.: *See*—
Cantrell, C. D., III; and Peterson, G. L., 4,690,742, Cl. 204-157.200.

Peterson, Gary R.: *See*—
Horton, M. Duane; and Peterson, Gary R., 4,664,705, Cl. 75-243.000.
Levine, Peter A.; Cobb, Arthur L., Jr.; Johnson, Cydney A.; and Peterson, Gary R., 4,695,878, Cl. 358-44.000.

Peterson, Gregory A.; Loda, Michael A.; and Graff, Timothy E., to Motorola, Inc. Flyback power supply. 4,688,158, 8-18-87, Cl. 363-21.000.

Peterson, H. Philip: *See*—
Riseman, John H.; D'Entremont, Alice M.; and Peterson, H. Philip, 4,675,743, Cl. 358-263.000.

Riseman, John H.; D'Entremont, Alice M.; and Peterson, H. Philip, 4,677,571, Cl. 364-519.000.
Peterson, James C. Attachment for cement chute. 4,688,667, 8-25-87, Cl. 193-10.000.
Peterson, Janice C.; and DiMartino, Stephen P., to Air Products and Chemicals, Inc. Metal hydride adsorption process for hydrogen purification. 4,696,806, 9-29-87, Cl. 423-248.000.
Peterson, Jerry D.; and Knief, Gerald L., to Ritchie Industries, Inc. Waterer corner wear guard. 4,633,815, 1-6-87, Cl. 119-72.000.
Peterson, Jerry D.; and Knief, Gerald L., to Ritchie Industries, Inc. Animal waterer. 4,646,687, 3-3-87, Cl. 119-73.000.
Peterson, John F.: *See*—
Lessard, Philip A.; Bartlett, Allen J.; and Peterson, John F., 4,679,401, Cl. 62-55.500.
Peterson, John L.; and Swapp, Mavin, to Motorola Inc. Integrated circuit tester and remote pin electronics therefor. 4,694,242, 9-15-87, Cl. 324-73.00R.
Peterson, John R. Pre-measured dry mix cement enclosed by water soluble material with water reservoir. 4,671,413, 6-9-87, Cl. 206-527.000.
Peterson, John R.: *See*—
Schlett, Paul E.; Peterson, John R.; Caprio, James A.; and Kleeb, Thomas R., 4,656,146, Cl. 501-124.000.
Peterson, Karl E., to AT&T Technologies, Inc. Video controlled article positioning system. 4,651,203, 3-17-87, Cl. 358-101.000.
Peterson, Larry O., to Crimestopper Security Products, Inc. Electric Solenoid operation vehicle hood lock. 4,702,094, 10-27-87, Cl. 70-241.000.
Peterson, Lars-Eric; and Soderlind, Jan. Protective apron. 4,682,372, 7-28-87, Cl. 2-51.000.
Peterson, Lawrence D., to Ford Motor Company. Door hinge with an annular elastomeric check. 4,670,941, 6-9-87, Cl. 16-332.000.
Peterson, Luetta M., to Mainstay, Inc. Bird feeder. 4,637,344, 1-20-87, Cl. 119-52.00R.
Peterson, LuVerne R., to Unisys Corporation. Memory system employing a zero DC power gate array for error correction. 4,698,812, 10-6-87, Cl. 371-38.000.
Peterson, Lyle: *See*—
Berg, Harvey F.; Peterson, Lyle; Leslie, James E.; and Doan, Phong, 4,650,469, Cl. 604-131.000.
Peterson, Lynn, to Eastman Christensen Company. Diamond setting in a cutting tooth in a drill bit with an increased effective diamond width. 4,697,653, 10-6-87, Cl. 175-329.000.
Peterson Manufacturing Co., Inc.: *See*—
Burney, Burrell T., 4,707,924, Cl. 30-363.000.
Peterson, Marvin A.; and Mooney, Raymond M., to General Electric Company; and Valspar Corporation, The. Method of making electrical inductive devices for use in hermetic refrigerant atmospheres. 4,670,342, 6-2-87, Cl. 428-377.000.
Peterson, Michael: *See*—
Handler, Milton E.; Sylvan, Richard; and Peterson, Michael, 4,682,698, Cl. 211-70.600.
Handler, Milton E.; Sylvan, Richard; and Peterson, Michael, 4,699,343, Cl. 248-157.000.
Peterson, Mitchell F.: *See*—
Wales, C. Ernest; and Peterson, Mitchell F., 4,680,741, Cl. 367-189.000.
Peterson, Olav, to Northern Telecom Limited. Printed circuit board edge connection arrangements. 4,681,549, 7-21-87, Cl. 439-181.000.
Peterson, Parker: *See*—
Grant, Casey C.; and Peterson, Parker, 4,664,199, Cl. 169-46.000.
Peterson, Paul E., to Petrophysical Services, Inc. Resonant determination of saturation changes in rock samples. 4,685,326, 8-11-87, Cl. 73-38.000.
Peterson, Paul F., to Lockheed Corporation. Rotary launcher system for an aircraft. 4,637,292, 1-20-87, Cl. 89-1.804.
Peterson, Paul F., to Lockheed Corporation. Weapon dispensing system for an aircraft. 4,679,751, 7-14-87, Cl. 244-137.400.
Peterson, Paul J., to Goodyear Tire & Rubber Company, The. Belt skiving method and apparatus. 4,656,910, 4-14-87, Cl. 83-875.000.
Peterson, Paul J., to Goodyear Tire & Rubber Company, The. Method for belt splice preparation. 4,715,106, 12-29-87, Cl. 29-426.400.
Peterson, Per V.; Hoglund, Hans E.; and Johansson, Alf O. K., to SCA Development Aktiebolag. Refiner disc segment. 4,635,864, 1-13-87, Cl. 241-251.000.
Peterson, Phillip R.: *See*—
Geary, Joseph M.; and Peterson, Phillip R., 4,696,569, Cl. 356-124.000.
Peterson, Richard B. Head for blind rivet installation tools. 4,691,552, 9-8-87, Cl. 72-391.000.
Peterson, Richard H.: *See*—
Kramer, Justin; and Peterson, Richard H., 4,677,892, Cl. 84-405.000.
Peterson, Richard L., to Infinity Boring Tool Company. Tool apparatus for boring a hole. 4,710,073, 12-1-87, Cl. 408-181.000.
Peterson, Robert K., to Texas Instruments Incorporated. High pin count chip carrier package. 4,688,150, 8-18-87, Cl. 361-403.000.
Peterson, Robert L., to Warn Industries, Inc. Hydraulic winch. 4,650,163, 3-17-87, Cl. 254-327.000.
Peterson, Robert L.: *See*—
Horton, Edwin T.; and Peterson, Robert L., 4,672,687, Cl. 455-277.000.
Peterson, Robert T.: *See*—
Klee, Maurice; Peterson, Robert T.; Cochran, Gary L.; Dawson, James E.; and Anderson, Robert M., 4,682,666, Cl. 180-89.130.
Peterson, Royal D.; and Jones, Ronald E., to Continental Laser Corporation. Modular gas laser cathode assembly. 4,656,640, 4-7-87, Cl. 372-87.000.
Peterson, Royal D.: *See*—
Jones, Ronald E.; and Peterson, Royal D., 4,694,462, Cl. 372-61.000.
Peterson, Rudolph A., Jr., to Deere & Company. Neutral start circuit for a vehicle including a power take-off assembly. 4,651,018, 3-17-87, Cl. 307-10.0SB.
Peterson, Rudolph A., Jr.: *See*—
Holm, David R.; and Peterson, Rudolph A., Jr., 4,714,227, Cl. 248-595.000.
Peterson, Seymour A.; and Huot, Peter G., to Huot Mfg. Co. Drill holding case structure. 4,660,719, 4-28-87, Cl. 206-379.000.
Peterson, Steven H.; Lahoda, Edward J.; and Weisberg, Sharon L., to Westinghouse Electric Corp. Process for the separation of gadolinium isotopes. 4,711,768, 12-8-87, Cl. 423-21.500.
Peterson, Thomas P.: *See*—
Cucci, Gerald R.; and Peterson, Thomas P., 4,681,293, Cl. 248-603.000.
Peterson, Thomas W.; Hole, David B.; and Mintz, S. Stanley, to Intelledex Incorporated. Sealed joint for a robot and the like. 4,678,952, 7-7-87, Cl. 310-83.000.
Peterson, Warren J., to Joerns Healthcare, Inc. Free-engaging drive unit for adjustable beds. 4,660,236, 4-28-87, Cl. 5-69.000.
Peterson, Warren J. Method of and apparatus for warming a person. 4,676,223, 6-30-87, Cl. 126-208.000.
Peterson, Weldon H.; and Morrison, Kenneth G., to Allied Corporation. Spinnerette for producing hollow trilobal cross-section filament. 4,648,830, 3-10-87, Cl. 425-464.000.
Peterson, Wicks, Nemer & Kamrath, P.A.: *See*—
Hartwell, Gregory W., 4,650,201, Cl. 280-242.0WC.
Hartwell, Gregory W., 4,652,005, Cl. 280-242.0WC.
Peterson, William A., to General Electric Company. Multiphase rectifier circuit with dynamic AC input to DC output voltage range compression utilizing half and full wave rectification modes. 4,667,282, 5-19-87, Cl. 363-89.000.
Peterson, William A.: *See*—
Ngo, Khai D. T.; and Peterson, William A., 4,709,316, Cl. 363-21.000.
Peterson, William M., to Motorola Inc. System and method for altering an aspect of one of a plurality of coincident visual objects in a video display generator. 4,675,666, 6-23-87, Cl. 340-721.000.
Peterson, William M.: *See*—
O'Malley, Patrick J.; and Peterson, William M., 4,670,745, Cl. 340-801.000.
Peterssen, Rudolf: *See*—
Haug, Kurt; and Peterssen, Rudolf, 4,710,857, Cl. 362-80.000.
Petersson, Nils A. I., to Brio AB. Toy railway vehicle set with constricted opening recess in hub. 4,641,878, 2-10-87, Cl. 295-49.000.
Petery, James J.: *See*—
Miazga, Dennis E.; and Petery, James J., 4,691,317, Cl. 371-20.000.
Peteuil, Donald D. Switching circuit. 4,689,492, 8-25-87, Cl. 307-142.000.
Peth, Horst: *See*—
Hess, Heinz; and Peth, Horst, 4,679,064, Cl. 358-24.000.
Hess, Heinz; and Peth, Horst, 4,698,667, Cl. 358-35.000.
Peth, Norbert: *See*—
Oehler, Henry; Peth, Norbert; Holpp, Hans W.; and Sass, Wolfgang, 4,693,017, Cl. 34-58.000.
Petheram, John C., to RCA Corporation. Slab active lasing medium. 4,642,809, 2-10-87, Cl. 372-66.000.
Petho, Hajnalka V.: *See*—
Ezer, Elemer; Harsanyi, Kalman; Petho, Hajnalka V.; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas, Marta; and Kallay, Anna, 4,713,388, Cl. 514-346.000.
Petit, Andre, to Alcatel. Metal junction box for plug-in multicontact connector. 4,678,259, 7-7-87, Cl. 439-610.000.
Petit, Andre; Penicaud, Etienne; Le Coz, Gerard; and Jamet, Daniel, to Alcatel. System for interconnecting orthogonally disposed printed circuit boards and switching networks employing same. 4,703,394, 10-27-87, Cl. 361-413.000.
Petit, Daniel: *See*—
Walter, Jean-Jacques; Petit, Daniel; Marzocca, Joseph; Amalric, Jean; and Bernard, Georges, 4,697,055, Cl. 200-148.00B.
Petit, George S., to United States of America, Energy. Method for fluorination of uranium oxide. 4,704,261, 11-3-87, Cl. 423-258.000.
Petit, Herve : *See*—
Gadelle, Claude; and Petit, Herve , 4,705,431, Cl. 405-267.000.
Petit, Jacques: *See*—
Lanne, Maurice; Pons, Gerard; Petit, Jacques; and Pauly, Francis, 4,663,658, Cl. 358-101.000.
Petit, Jean-Francois: *See*—
Tenu, Jean P.; Phillips, Nigel C.; Petit, Jean-Francois; and Bernard, Jean M., 4,663,311, Cl. 514-26.000.
Petit, Jean P., to Jeumont-Schneider Corporation. Series-connected power transistors. 4,670,667, 6-2-87, Cl. 307-254.000.
Petit, Jocelyn I.: *See*—
Bretz, Philip E.; Petit, Jocelyn I.; Sawtell, Ralph R.; and Vasudevan, Asuri K., 4,693,747, Cl. 75-249.000.
Petit, Maurice L. J.: *See*—
Lemonier, Michel G.; and Petit, Maurice L. J., 4,687,922, Cl. 250-213.0VT.

Petit, Patrick: *See—*
Robin, Philippe; Micheron, Francois; Petit, Patrick; and Broussoux, Dominique, 4,649,312, Cl. 310-330.000.

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Siffert, Marcel; Briant, Gervais; Feunten, Pierre; Goacolou, Honore ; Petitgrand, Jean-Claude; and Peyret, Francois, 4,712,423, Cl. 73-146.000.

Petitimbert, Jean-Francois: *See—*
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Petitt, George E., Jr. Chain saw sharpener aid. 4,646,589, 3-3-87, Cl. 76-36.000.

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Greene, Franklin R.; Zimmet, Arthur L.; Waye, Jerome D.; and Petix, Edward A., 4,643,197, Cl. 128-762.000.

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Petkov, Nedelcho G.: *See—*
Atanassova, Ivanka A.; Haimova, Marieta A.; Chavdarova, Veselina B; Nakov, Anton I.; Petkov, Nedelcho G.; and Avramova, Ruska S., 4,711,956, Cl. 540-327.000.

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Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.
Messmer, Andras; Batori, Sandor; Hajos, Gyorgy; Benko, Pal; Pallos, Laszlo; Petocz, Lujza; Grasser, Katalin; and Kosoczky, Ibolya, 4,697,013, Cl. 544-183.000.

Petolino, Joseph A., Jr.: *See—*
Woffinden, Gary A.; and Petolino, Joseph A., Jr., 4,651,321, Cl. 371-38.000.

Petoskey Plastics, Inc.: *See—*
Keiswetter, Paul C., 4,676,376, Cl. 206-494.000.

Petr, Jan, to Lgz Landis & Gyr Zug AG. Interference signal component compensation circuit. 4,710,652, 12-1-87, Cl. 307-491.000.

Petr, Rodney A.: *See—*
Byron, Stanley R.; Burkes, Thomas; Petr, Rodney A.; and Smilanski, Israel, 4,668,896, Cl. 315-330.000.

Petracca, Victor G.: *See—*
Ward, Thomas A.; Petracca, Victor G.; and Figore, Timothy, 4,696,864, Cl. 428-413.000.

Petracchi, Patrice, to Fives-Cail Babcock. Apparatus for manipulating a protective tube for a jet of molten metal. 4,643,339, 2-17-87, Cl. 222-607.000.

Petracek, Vaclav: *See—*
Schnegg, Julius; and Petracek, Vaclav, 4,682,480, Cl. 66-192.000.

Petrak, Harry A., to Boulder 12 Investments. Ground clutch assembly with dynamic engagement and disengagement. 4,694,943, 9-22-87, Cl. 192-35.000.

Petralia, Salvatore; and Young, H. Gerald, to Regina Co., Inc., The. Vacuum cleaner. 4,686,736, 8-18-87, Cl. 15-332.000.

Petrantoni, David J.: *See—*
Petrantoni, Joseph, 4,671,079, Cl. 62-457.000.

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Petrarch Systems, Inc.: *See—*
Arkles, Barry C., 4,699,991, Cl. 558-335.000.
Arkles, Barry C.; and Brinigar, William S., 4,711,820, Cl. 428-429.000.
Arkles, Barry C., 4,714,739, Cl. 525-92.000.
Lewis, James M.; Owens, Robert A.; and Blakeney, Andrew J., 4,661,436, Cl. 430-326.000.
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Lewis, James M.; and Blakeney, Andrew J., 4,710,449, Cl. 430-326.000.

Petratos, Nickie A.; Karl, David; and Bradford, William M., to Motorola, Inc. Portable radio housing with logic and RF shielding. 4,680,676, 7-14-87, Cl. 361-424.000.

Petre, Janet E.: *See—*
Livingston, Douglas A.; and Petre, Janet E., 4,710,565, Cl. 536-16.500.

Petrecca, Peter J.: *See—*
Boger, Bentley J.; and Petrecca, Peter J., 4,687,137, Cl. 239-124.000.

Petree, Allen R., to Conoco Inc. Downhole circulation pump. 4,669,555, 6-2-87, Cl. 175-97.000.

Petree, Larry M.; Attaway, Julian J.; and Driggers, Randolph W., to MM Systems Corporation. Panel systems and installations. 4,649,684, 3-17-87, Cl. 52-395.000.

Petree, Larry M.: *See—*
Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., 4,651,488, Cl. 52-396.000.
Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., 4,674,252, Cl. 52-396.000.
Nicholas, John D.; Petree, Larry M.; and Attaway, Julian J., 4,708,517, Cl. 404-64.000.

Petreev, Anatoly M.: *See—*
Kostylev, Alexandr D.; Syryamin, Jury N.; Smolyanitsky, Boris N.; Boginsky, Vladimir P.; Terskov, Alexei D.; Mjuntser, Elena G.; and Petreev, Anatoly M., 4,653,596, Cl. 173-135.000.

Petrella, Robert G.; and Scarpati, Michael, to Air Products and Chemicals, Inc. Polyurethane foam catalysts that eliminate polyurea-containing polyol based masterbatch cure drift. 4,707,501, 11-17-87, Cl. 521-115.000.

Petrenchik, John R., to Mercury Machine Company. Method and mold for molding investment casting patterns of irregular shape. 4,641,702, 2-10-87, Cl. 164-137.000.

Petrex, Inc.: *See—*
Wagner, William L., 4,647,335, Cl. 156-500.000.

Petrey, John O. Foot cover. 4,651,354, 3-24-87, Cl. 2-239.000.

Petri AG: *See—*
Roggendorf, Peter; and Buchmann, Rainer, 4,697,092, Cl. 307-10.00R.
Zeller, Gregor; and Bonn, Helmut, 4,657,326, Cl. 339-3.00S.
Zeller, Gregor; and Bonn, Helmut, 4,660,500, Cl. 116-31.000.

Petri Aktiengesellschaft: *See—*
Zeller, Gregor, 4,662,238, Cl. 74-552.000.
Zeller, Gregor, 4,714,430, Cl. 439-15.000.

Petri, Gizella V.: *See—*
Tompa, Ildiko F.; Nagy, Attila; Tyihak, Erno; Nyiredy, Szaboles; Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida, Laszlo ; Mincsovics, Emil; Kemeny, Gabor; and Baranyi, Piroska, 4,671,870, Cl. 210-149.000.

Petri, Gunther F.; and Ziegenbein, Botho, to Brown, Boveri & Cie AG. Shunting element. 4,651,253, 3-17-87, Cl. 361-124.000.

Petri, Heinz: *See—*
Essig, Willi; and Petri, Heinz, 4,695,816, Cl. 337-394.000.

Petri, Otto; Baeumer, Werner; and Ohrendorf, Dieter, to Fr. W. Schnutz GmbH & Co. Method for support roller adjustment in straightening machines. 4,698,990, 10-13-87, Cl. 72-21.000.

Petri, Volker: *See—*
Andres, Rudolf; Knoll, Heinz; Petri, Volker; and Pfistner, Harald, 4,700,974, Cl. 280-806.000.
Andres, Rudolf; Knoll, Heinz; Petri, Volker; and Pfistner, Harald, 4,702,492, Cl. 280-801.000.

Petrich, David B.: *See—*
Rondel, Stephen A.; and Petrich, David B., 4,674,400, Cl. 99-279.000.

Petrick, Bruce E.; and Wingfield, Perry E., to Tektronix, Inc. Method and apparatus for input picture enhancement by removal of undersired dots and voids. 4,646,355, 2-24-87, Cl. 382-54.000.

Petrick, Bruce E., to Tektronix, Inc. Microprocessor stepper motor drive. 4,648,026, 3-3-87, Cl. 364-174.000.

Petrick, Bruce E.: *See—*
Wingfield, Perry E.; and Petrick, Bruce E., 4,648,119, Cl. 382-27.000.

Petrick, William R.: *See—*
Olsen, Steven L.; Petrick, William R.; and Stodt, John A., 4,686,474, Cl. 324-331.000.

Petridis, Petros; Newell, Darrel E.; and Hartman, Keneth D., to CTS Corporation. Preferential etching of a piezoelectric material. 4,661,201, 4-28-87, Cl. 156-628.000.

Petrie, Adelore F., to Motorola, Inc. Solenoid driver control unit. 4,680,667, 7-14-87, Cl. 361-154.000.

Petrie, Adelore F.: *See—*
Comroe, Richard A.; and Petrie, Adelore F., 4,642,807, Cl. 371-31.000.

Petrie, Brian C.: *See—*
Mels, Sherman J.; Petrie, Brian C.; and Pokusa, Richard J., 4,668,360, Cl. 204-181.700.

Petrie, Edward M.; and Bell, Clifford J., to Westinghouse Electric Corp. Transformer oil pump bearing material. 4,699,573, 10-13-87, Cl. 417-370.000.

Petrie, John A. Retaining rings including orienting slot and hole configurations, and apparatus and method of ring orientation. 4,687,399, 8-18-87, Cl. 411-518.000.

Petrie, Ross J.: *See—*
Morrison, Daniel R.; Petrie, Ross J.; and Savage, Kenneth D., 4,633,673, Cl. 62-129.000.

Petrikevich, Svetlana B.: *See—*
Redikultsev, Jury V.; Litvinenko, Leonid A.; Chermenskaya, Taisia S.; Petrikevich, Svetlana B.; and Maximov, Mikhail G., 4,656,138, Cl. 435-314.000.

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Petrillo, Barry. Tremolo device for stringed instruments. 4,643,070, 2-17-87, Cl. 84-313.000.

Petrillo, Edward W., Jr.: *See—*
Karanewsky, Donald S.; and Petrillo, Edward W., Jr., 4,703,043, Cl. 514-80.000.
Karanewsky, Donald S.; and Petrillo, Edward W., Jr., 4,716,155, Cl. 514-89.000.
Ryono, Denis E.; and Petrillo, Edward W., Jr., 4,665,193, Cl. 548-344.000.

Petrini, Roland; and Morell, Joseph, to Salomon S.A. Ski boot with spring action flex control. 4,694,593, 9-22-87, Cl. 36-120.000.

Petrini, Roland: *See—*
Benoit, Louis; Nerrinck, Bernard; Morell, Joseph; and Petrini, Roland, 4,698,920, Cl. 36-50.000.
Morell, Joseph; and Petrini, Roland, 4,712,315, Cl. 36-117.000.

Petrisko, John D.: *See—*
Davies, Norman; Petrisko, John D.; Filson, Allen G., and Wobrak, Robert E., 4,650,085, Cl. 220-4.00R.

Petritis, Demetris; Lundin, Robert S.; and Crozier, John H., to Superior Electric Company, The. Method and means for producing a D.C. signal proportional to the peak amplitude of an A.C. signal. 4,647,861, 3-3-87, Cl. 328-26.000.

Petritis, Demetris: *See—*
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Petro-Canada Inc.: *See—*
Al-Saigh, Abbas, 4,642,223, Cl. 422-191.000.
Cohen, Stephen C., 4,652,385, Cl. 252-48.600.
Hetherington, Gordon S., 4,664,294, Cl. 222-105.000.
Poirier, Marc-Andre, 4,683,005, Cl. 106-273.00R.
Schramm, Laurier L., 4,637,417, Cl. 137-4.000.

Petro-Design, Inc.: *See—*
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Schoeffler, William N., 4,655,299, Cl. 175-38.000.

Petro Fax, Inc.: *See—*
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Petro Fill, Inc.: *See—*
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Petro, Imre: *See—*
Ress, Piroska; Kiss, Istvan; Miltenyi, Geza; Strahl, Antal; Petro, Imre; Farkas, Jozsef; Biacs, Peter; Kozma, Istvanne; and Debreczeny, Istvan, 4,670,274, Cl. 426-240.000.

Petro, John D., to Commercial Shearing, Inc. Gear pump or motor with tooth tips of dissimilar metal. 4,682,939, 7-28-87, Cl. 418-178.000.

Petro Products, Inc.: *See—*
Lancaster, Robert L.; and Shaw, Raymond E., 4,678,702, Cl. 428-252.000.

Petro-Tex Chemical Corporation: *See—*
Bajars, Laimonis; and Croce, Louis J., 4,658,074, Cl. 585-380.000.
McFarland, Cecil G., 4,644,088, Cl. 585-658.000.
McFarland, Cecil G., 4,658,080, Cl. 585-658.000.

Petro-Tube, Inc.: *See—*
Wood, Kenneth M.; and Jarveaux, Frank, 4,697,830, Cl. 285-27.000.

Petrocco, Giovanni: *See—*
Antonini, Bruno; Borghese, Camillo; D'Amico, Arnaldo; DeGasperis, Paolo; Paoletti, Antonio; Paroli, Paolo; Petrocco, Giovanni; Tucciarone, Aldo; and Scarinci, Fernando, 4,640,629, Cl. 374-178.000.

Petroff, Cvetan, to McPherson's Limited. Knife sharpener. 4,669,337, 6-2-87, Cl. 76-86.000.

Petrofsky, David; and Petrofsky, Leonard, to Petrofsky, Leonard; Petrofsky, Robert; Petrofsky, David; and Shapiro, Jerry. Method of manufacturing frozen bagel dough products. 4,657,769, 4-14-87, Cl. 426-549.000.

Petrofsky, Jerrold S., to Wright State University. Method and apparatus for providing stimulated exercise of paralyzed limbs. 4,642,769, 2-10-87, Cl. 364-415.000.

Petrofsky, Jerrold S., to Wright State University. Control system for knee joint. 4,711,242, 12-8-87, Cl. 128-419.00R.

Petrofsky, Jerrold S.: *See—*
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Petrofsky, Leonard: *See—*
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Petrofsky, Robert: *See—*
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Petroleo Brasileiro S.A. - Petrobras: *See—*
Barbosa, Luiz C. F.; Ribeiro, Adelman M.; Bonet, Euclides J.; and Branco, Celso C. M., 4,643,254, Cl. 166-292.000.
Filho, Jorge H.; and Bachmann, Dorian L., 4,707,275, Cl. 210-787.000.
Silva, Julio C.; Gaiao, Ubirajara; and Novicki, Rubens E. M., 4,707,248, Cl. 208-409.000.

Petroleum Fermentations N.V.: *See—*
Hayes, Michael E.; Hood, Craig C.; Miller, Ronald E.; and Sharpe, Robert, 4,640,719, Cl. 134-40.000.
Hayes, Michael E.; Hrebenar, Kevin R.; Deal, James F., III; and Bolden, Paul L., Jr., 4,666,457, Cl. 44-51.000.
Hayes, Michael E.; Hrebenar, Kevin R.; Murphy, Patricia L.; Futch, Laurence E., Jr.; Deal, James F., III; and Bolden, Paul L., Jr., 4,684,372, Cl. 44-51.000.
Hayes, Michael E.; Hass, Gary R.; Sharpe, Robert; Nestaas, Eirik; and Ostrovsky, Mikhail V., 4,706,749, Cl. 166-267.000.
Shoham, Yuval; Rosenberg, Eugene; and Gutnick, David L., 4,704,360, Cl. 435-99.000.

Petroleum Instrumentation & Technological Services: *See—*
Hayatdavoudi, Asadollah; and Dalier, Paul H., 4,688,650, Cl. 175-324.000.

Petroleum Structures, Inc.: *See—*
Gillis, Don A., 4,655,640, Cl. 405-198.000.

Petrolite Corporation: *See—*
Bellos, Thomas J.; and Redmore, Derek, 4,671,815, Cl. 71-67.000.
Buriks, Rudolf S.; and Lovett, Eva G., 4,689,418, Cl. 548-952.000.
Hakim, John, 4,701,487, Cl. 524-229.000.
Hausler, Rudolph H.; Savage, Allen L.; and Harrell, Jack B., Jr., 4,667,150, Cl. 324-65.0CR.
Matlach, William J., 4,659,334, Cl. 44-51.000.
May, Walter R.; and Zetlmeisl, Michael J., 4,659,339, Cl. 44-68.000.
Naiman, Michael I.; Schield, John A.; and Cunningham, Lawrence J., 4,708,993, Cl. 525-356.000.
Oude Alink, Bernardus A., 4,665,180, Cl. 544-231.000.
Outlaw, Benjamin T.; and Oude Alink, Bernardus A., 4,678,638, Cl. 422-13.000.
Quinlan, Patrick M., 4,670,186, Cl. 252-392.000.
Thompson, Neil E. S.; Redmore, Derek; Oude Alink, Bernardus A.; and Outlaw, Benjamin T., 4,684,507, Cl. 422-12.000.
Thompson, Neil E. S.; and Asperger, Robert G., 4,689,177, Cl. 252-344.000.

Petronio, Carlo F.: *See—*
Oates, Robert M.; Petronio, Carlo F.; and Kraus, Mark G., 4,644,270, Cl. 324-207.000.

Petronis, Thomas J.: *See—*
Newell, Bruce D.; Petronis, Thomas J.; and Krause, Lawrence R., 4,664,588, Cl. 414-730.000.

Petronko, Dennis A. Heat foam insulation jacket. 4,696,324, 9-29-87, Cl. 137-375.000.

Petrophysical Services, Inc.: *See—*
Kennedy, William S.; and Blumenkranz, Stephen J., 4,671,379, Cl. 181-106.000.
Peterson, Paul E., 4,685,326, Cl. 73-38.000.
Yasuda, Arthur K.; Kennedy, William S.; and Aronstam, Peter S., 4,715,469, Cl. 181-102.000.

Petros, Andrew. Thrust mechanism for mill roll bearing assembly 4,714,360, 12-22-87, Cl. 384-620.000.

Petrosian, Misha S.: *See—*
Martyshenko, Jury P.; Martyshenko, Sergei J.; Kotelnikov, Jury S.; Kutukhtin, Evgeny G.; Ilyasova, Nelli I.; Volkov, Jury S.; Vardanian, Armenak M.; and Petrosian, Misha S., 4,701,075, Cl. 405-217.000.

Petrov, Ivan B.: *See—*
Nenkov, Nikolay D.; Petrov, Ivan B.; and Peev, Stoyko P., 4,664,204, Cl. 175-44.000.

Petrov, Valentin G.: *See—*
Balevski, Angel T.; Nikolov, Ivan D.; Momchilov, Emil N.; Bachvarov, Rumen D.; Ostrovski, Vassil N.; Nikolchov, Alexander S.; Stoyanov, Peyo T.; Petrov, Valentin G.; and Lyubenov, Toshko K., 4,671,342, Cl. 164-458.000.

Petrova, Lyudmila V.: *See—*
Zabunova, Orhideya B.; Zvetanov, Hristo B.; Petrova, Lyudmila V.; Ognyanova, Vaska A.; Nikolova, Milka P.; Tanev, Georgi I.; and Ivanova, Nedyalka S., 4,704,468, Cl. 560-43.000.

Petrovic, Ljubisa M., to Well Improvement Specialists, Inc. Sand control devices and method of installation thereof. 4,693,318, 9-15-87, Cl. 166-380.000.

Petrovic, Ljubisa M., to Well Improvement Specialists, Inc. Sand control devices and method of installation thereof. 4,700,778, 10-20-87, Cl. 166-157.000.

Petrovich, Alexandr E.: *See—*
Bezborodov, Vladimir S.; Konovalov, Viktor A.; Ptashnikov, Jury L.; Astafiev, Vladimir M.; and Petrovich, Alexandr E., 4,683,079, Cl. 252-299.670.

Petrow, Henry G. Compositions and methods for permanently waving or straightening hair. 4,659,566, 4-21-87, Cl. 424-71.000.

Petrow, William M., to Zenith Electronics Corporation. CRT deflection yoke with rigidifying means. 4,673,906, 6-16-87, Cl. 335-210.000.

Petrozzi, Gerard: *See—*
Brison, Bernard; Galerneau, Jacques; Gontier, Alex; and Petrozzi, Gerard, 4,710,980, Cl. 2-50.000.

Petruzzi, Claude E., to American Hospital Supply Corporation. Multicomponent flexible grasping device. 4,655,219, 4-7-87, Cl. 128-321.000.

Petruzzi, Claude E., to Circon Corporation. Method for fabrication of flexible shaft. 4,669,172, 6-2-87, Cl. 29-456.000.

Petry, Charles J.: *See—*
Hazelett, Robert W.; Petry, Charles J.; and Platek, Stanley W., 4,648,438, Cl. 164-475.000.

Petry, Eston F.; and Riester, John B., to Conoco Inc. Remotely sensing of excavation cavity during mining. 4,708,395, 11-24-87, Cl. 299-17.000.

Petrzelka, Antonin; and Pseja, Rudolf, to Tovarny Strojirenske Techniky, Koncern. Apparatus for roughening the margin of lasted footwear. 4,649,585, 3-17-87, Cl. 12-17.200.

Petrzelka, Antonin: *See—*
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Petrzilka, Martin, to Hoffmann-La Roche Inc. Liquid crystals. 4,676,604, 6-30-87, Cl. 350-350.00R.

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Petrzilka, Martin; and Schadt, Martin, to Hoffmann-La Roche Inc. Novel liquid crystal mixtures. 4,709,030, 11-24-87, Cl. 544-242.000.

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h, Heinrich: *See—*
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che, Irena B.: *See—*
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chner, Goetz, to IMAG-Verlage AG fur Immaterialguterrecht. outle-wall sack made of circular-woven tube with gathered loop. 710,967, 12-1-87, Cl. 383-8.000.
chulat, David J.: *See—*
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, John R. Levelling support structure for vehicle mounted refriger-or, 4,669,696, 6-2-87, Cl. 248-550.000.
nati, Enrico: *See—*
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r, William J.; Moore, Glenn E.; McMath, Jack A.; and Pemberton, gene B., to Dover Corporation. Liquid spill container and method making and installing same. 4,659,251, 4-21-87, Cl. 405-52.000.
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Skei, Bjarne; and Pettersen, Nils, 4,669,709, Cl. 266-270.000.
rson, Tom. Coupling arrangement. 4,712,814, 12-15-87, Cl. 5-325.000.
rson, Tor. Photo electric charger device for low power electrical vice. 4,686,441, 8-11-87, Cl. 320-2.000.
rsson, Ingvar, to Scomas AB. Method and apparatus for indicating d sensing pipetting positions. 4,692,609, 9-8-87, Cl. 250-221.000.
rsson, Lars T., to Santrade Limited. Insert for chip removing chining. 4,681,487, 7-21-87, Cl. 407-114.000.
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Hafner, Hans W., 4,646,943, Cl. 222-148.000.
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Kenna, Robert V., 4,666,450, Cl. 623-22.000.
Kenna, Robert V., 4,714,469, Cl. 623-17.000.
Millar, Huntly D., 4,665,925, Cl. 128-663.000.
Parchinski, Thomas J., 4,650,491, Cl. 623-22.000.
Rhum, David; and Matthews, Richard S., 4,650,851, Cl. 528-354.000.
Rhum, Joseph D., 4,649,920, Cl. 128-335.500.
Shave, William H.; and Williams, Joseph R., 4,704,106, Cl. 604-319.000.
Silvestrini, Thomas A., 4,708,132, Cl. 128-92.0YF.
Wang, Kathy K.; Gustavson, Larry J.; and Dumbleton, John H., 4,668,290, Cl. 75-235.000.
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Adams, Richard C., 4,704,456, Cl. 540-310.000.
Alker, David; Campbell, Simon F.; and Cross, Peter E., 4,654,351, Cl. 514-334.000.
Arrowsmith, John E.; Campbell, Simon F.; Cross, Peter E.; and Dickinson, Roger P., 4,647,565, Cl. 514-260.000.
Beatty, Morgan L.; and Boettner, Wayne A., 4,704,284, Cl. 421-469.000.
Beck, Donald; Miller, James W.; Wernau, William C.; and Young, Thomas B., III, 4,639,322, Cl. 252-8.554.
Brighty, Katherine E., 4,695,626, Cl. 540-214.000.
Campbell, Simon F.; and Hardstone, John D., 4,656,174, Cl. 514-254.000.
Campbell, Simon F.; Cross, Peter E.; Stubbs, John K.; and Arrowsmith, John E., 4,661,485, Cl. 514-247.000.
Campbell, Simon F.; Cross, Peter E.; Stubbs, John K.; and Arrowsmith, John E., 4,670,449, Cl. 514-341.000.
Campbell, Simon F.; and Hardstone, John D., 4,686,228, Cl. 514-307.000.
Campbell, Simon F.; and Roberts, David A., 4,710,507, Cl. 514-312.000.
Campbell, Simon F.; and Kobylecki, Ryszard J., 4,711,882, Cl. 514-228.000.
Carroll, Ronnie D.; and Volkmann, Robert A., 4,714,761, Cl. 540-310.000.
Celmer, Walter D.; Cullen, Walter P.; Maeda, Hiroshi; and Tone, Junsuke, 4,652,523, Cl. 435-119.000.
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Chang, Ping W.; Gruetzmacher, Gordon D.; Meltz, Clifford N.; and Totino, Rocco A., 4,708,974, Cl. 523-130.000.
Crawford, Thomas C., 4,652,658, Cl. 548-468.000.
Crawford, Thomas C., 4,665,194, Cl. 548-486.000.
Crawford, Thomas C.; Keely, Stanley L.; Larson, David L.; Lombardino, Joseph G.; and Maciejko, James J., 4,672,061, Cl. 514-222.000.
Cross, Peter E.; and Dickinson, Roger P., 4,636,500, Cl. 514-234.000.
Cue, Berkeley W., Jr.; and Moore, Bernard S., 4,704,461, Cl. 549-404.000.
Eggler, James F.; Johnson, Michael R.; and Melvin, Lawrence S., Jr., 4,642,373, Cl. 560-139.000.
Eggler, James F.; Johnson, Michael R.; and Melvin, Lawrence S., Jr., 4,680,404, Cl. 546-269.000.
Eggler, James F.; Holland, Gerald F.; Johnson, Mickael R.; and Volkmann, Robert A., 4,703,052, Cl. 514-337.000.
Gauthier, George J.; and Miceli, John D., 4,694,113, Cl. 568-863.000.
Gibbs, David L., 4,661,493, Cl. 514-252.000.
Gilligan, Paul J.; McGuirk, Paul R.; and Witty, Michael J., 4,636,506, Cl. 514-256.000.
Goddard, Carl J., 4,716,231, Cl. 546-298.000.
Greengrass, Colin W.; Hoople, David W. T.; and Howarth, Thomas T., 4,684,641, Cl. 514-201.000.
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Gymer, Geoffrey E.; and Richardson, Kenneth, 4,661,507, Cl. 514-383.000.
Hunter, James R., 4,705,727, Cl. 428-653.000.
Kadin, Saul B., 4,658,037, Cl. 548-486.000.
Kadin, Saul B., 4,678,802, Cl. 514-418.000.
Kadin, Saul B., 4,690,943, Cl. 514-418.000.
Kellogg, Michael S., 4,656,263, Cl. 540-310.000.
LaMattina, John L., 4,636,498, Cl. 514-222.000.
LaMattina, John L., 4,673,677, Cl. 514-272.000.
Larson, Eric R.; and Siegel, Todd W., 4,678,749, Cl. 435-183.000.
Laudadio, Charles, 4,653,507, Cl. 128-742.000.
Lipinski, Christopher A., 4,680,306, Cl. 514-389.000.
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Massett, Stephen S., 4,698,444, Cl. 564-54.000.
Melvin, Lawrence S., 4,695,571, Cl. 514-275.000.
Melvin, Lawrence S., Jr., 4,644,005, Cl. 514-338.000.
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Miller, James W.; and O'Neill, John J., 4,707,281, Cl. 252-8.514.
Nakanishi, Susumu; and Nagakura, Isao, 4,694,080, Cl. 544-49.000.
Nozawa, Shigenori; Ohaya, Katsumi; and Kawazoe, Toshiji, 4,678,666, Cl. 424-81.000.
Ray, Stephen J., 4,654,352, Cl. 514-324.000.
Reed, Lawrence A., III, deceased, 4,675,186, Cl. 424-114.000.
Reinshagen, John H., 4,662,939, Cl. 75-246.000.
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Richardson, Kenneth; and Whittle, Peter J., 4,638,007, Cl. 514-340.000.
Richardson, Kenneth; and Whittle, Peter J., 4,678,789, Cl. 514-262.000.
Schnur, Rodney C., 4,656,169, Cl. 514-235.000.
Schnur, Rodney C., 4,689,336, Cl. 514-376.000.
Schnur, Rodney C., 4,695,634, Cl. 544-300.000.
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Vanderheiden, Dennis B., 4,714,603, Cl. 423-432.000.
Volkmann, Robert A., 4,694,087, Cl. 548-321.000.
Walinsky, Stanley W., 4,710,537, Cl. 524-549.000.
Walker, Frederick J.; and LaMattina, John L., 4,711,888, Cl. 514-269.000.
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Wilson, David P.; Pham, Hang T.; Lund, Earl A. E.; Basu, Rajat S.; and Pelava, John W., 4,683,075, Cl. 252-171.000.

Pham, Luat Q.: *See*—
Essig, Daniel L.; Pham, Luat Q.; Sexton, Joe F.; and Tubbs, Graham S., 4,646,257, Cl. 364-760.000.

Pham, Ngu T., to Thomson-CSF. Logic coincidence gate and logic sequential circuits using said coincidence gate. 4,703,204, 10-27-87, Cl. 307-448.000.

Pham, Ninh G.: *See*—
McGowan, Ronald C.; and Pham, Ninh G., 4,696,412, Cl. 220-335.000.

Pham, Van Doan, to Alsthom-Atlantique. High tension arc-blast circuit breaker. 4,639,565, 1-27-87, Cl. 200-148.00A.

Pham, Van Doan, to Alsthom. Sulphur hexafluoride circuit breaker usable at very low outside temperatures. 4,698,468, 10-6-87, Cl. 200-148.00B.

Pham, Van Doan; and Thuries, Edmond, to Alsthom. Sulfur hexafluoride circuit breaker operating in a very low temperature environment. 4,698,469, 10-6-87, Cl. 200-148.00E.

Phan, Hieu T.: *See*—
Bentzen, Craig L.; Guyon-Gellin, Yves; Kalathakis, Kyriacos; Phan, Hieu T.; Nguyen Mong, Lan; Niesor, Eric; and Rossier, Jean-Robert, 4,696,920, Cl. 514-89.000.

Phan Van Cang, Luc, to Thomson Video Equipement. Apparatus for modifying the appearance of the points of an image on the screen of a graphic image display console. 4,692,759, 9-8-87, Cl. 340-748.000.

Phantom Firework Manufacturing Company Limited: *See*—
Lau, Nam S.; and Lau, Yick J., 4,697,518, Cl. 102-358.000.

Pharlyse: *See*—
Deboeck, Arthur M., 4,699,927, Cl. 514-564.000.

pHarma-medica a-s: *See*—
Buchardt, Ole, 4,680,399, Cl. 546-139.000.

Pharmacaps, Inc.: *See*—
Cohen, Jonathan M.; Berry, Ira R.; and Borkan, Lionel, 4,708,834, Cl. 264-4.300.

Pharmaceutical Innovators Ltd.: *See*—
Johnson, Robert D.; Havener, John W.; Reyner, Mark F.; Reyner, Franklin W., Jr.; Whitver, Loren K.; and Kilburn, Norman W., 4,697,721, Cl. 221-211.000.

Pharmacia AB: *See*—
Agback, Karl H.; Agback, Tamara; and Nygren, Alf S., 4,695,648, Cl. 560-053.000.
Axen, Rolf E.; Carlsson, Jan P.; and Drevin, Hakan N., 4,647,655, Cl. 530-390.000.
Axen, Rolf E.; Kaj, Goran L.; and Bjorkman, Rune, 4,708,932, Cl. 435-7.000.
Axen, Rolf E. A. V.; and Carlsson, Jan P. E., 4,711,951, Cl. 530-323.000.
Bjorkman, Rune, 4,642,220, Cl. 422-101.000.
Gullberg, Carl E., 4,714,621, Cl. 427-2.000.
Hellgren, Lars G. I.; Mohr, Viggo; and Vincent, Jan G., 4,695,457, Cl. 424-94.000.
Johansson, Elof; and Ohman, Lena, 4,642,305, Cl. 514-182.000.
Kronvall, Hans C. G., 4,711,841, Cl. 435-7.000.
Malson, Tomas; and Lindqvist, Bengt L., 4,716,154, Cl. 514-54.000.
Pernemalm, Per-Ake; Carlsson, Mats; and Lindgren, Goran, 4,665,164, Cl. 536-120.000.
Yman, Rolf L., 4,642,232, Cl. 424-19.000.

Pharmacia, Inc.: *See*—
Englert, David F.; and Wheeler, Richard J., 4,707,235, Cl. 204-182.800.

PharmaControl Corp.: *See*—
Ducatman, Fred P.; and Flanagan, John D., 4,686,212, Cl. 514-161.000.

Pharmasol Corporation, The: *See*—
Venus, Frank, Jr., 4,693,675, Cl. 417-489.000.

Pharmindev Ltd.: *See*—
Cosentino, Roberto F.; and Bonapace, Franco B., 4,702,932, Cl. 427-33.000.

Phelan, Gerald E. Windrow shaping apparatus. 4,702,062, 10-27-87, Cl. 56-192.000.

Phelan, Gerard, to Swivelier. High hat light fixture support bracket. 4,638,970, 1-27-87, Cl. 248-342.000.

Phelan, James J., to Deere & Company. Ground speed sensor. 4,713,665, 12-15-87, Cl. 342-104.000.

Phelan, James J.; and Ferguson, Larry W., to Deere & Company. Ultrasonic horn with sidelobe suppressing centerpiece. 4,713,799, 12-15-87, Cl. 367-140.000.

Phelan, Jeremy D.: *See*—
Connelly, Roland L.; Willis, Robert F.; Phelan, Jeremy D.; and Nealen, Kathleen A., 4,688,178, Cl. 364-470.000.

Phelps, Arthur C., to High Resolution Television, Inc. NTSC color television transmission. 4,661,840, 4-28-87, Cl. 358-16.000.

Phelps, Collin J.: *See*—
Carroll, Noel; and Phelps, Collin J., 4,673,495, Cl. 210-232.000.

Phelps, Craig H.; and Sampath, Krishnaswamy, to Mobil Oil Corporation. Sodium hydroxide treatment of field water in a biopolymer complex. 4,667,741, 5-26-87, Cl. 166-274.000.

Phelps Dodge Industries, Inc.: *See*—
Barta, Donald J.; and Sollner, George H., 4,659,622, Cl. 428-379.000.
Coon, Jessie H., 4,658,090, Cl. 174-119.00R.
Kauffman, John C.; and Westenfeld, Richard A., 4,650,924, Cl. 174-117.00F.
Kauffman, John C., 4,692,566, Cl. 174-117.0FF.

Phelps, Douglas W.: *See*—
Buller, Marvin L.; Lumbra, Douglas L.; Phelps, Douglas W.; Samuelsen, Sigvart J.; and Ward, William C., 4,714,953, Cl. 357-81.000.

Phelps, Martha A.: *See*—
Williams, Martin M.; Phelps, Martha A.; and Zody, George M., 4,647,385, Cl. 252-8.551.

Phelps, Richard A.: *See*—
Moore, Ronald D.; Kavanaugh, James D.; Phelps, Richard A.; and Howard, Michael C., 4,686,741, Cl. 16-112.000.

Phelps, Russell: *See*—
Purvis, Gene; Phelps, Russell; Dupler, Tim; Landoll, Patrick; and Landoll, Leonard, 4,678,010, Cl. 138-31.000.
Purvis, Gene; Phelps, Russell; and Dupler, Tim, 4,708,088, Cl. 118-300.000.

Phelps, Stephen L.: *See*—
Duncan, George I.; and Phelps, Stephen L., 4,714,979, Cl. 361-274.000.

Phelps, Warren C. Gun sling. 4,691,852, 9-8-87, Cl. 224-150.000.

Phelps, Weldon L.: *See*—
Hoffman, John P.; and Phelps, Weldon L., 4,661,766, Cl. 323-287.000.
Mueller, James P.; and Phelps, Weldon L., 4,702,358, Cl. 192-13.00R.

Phelps, William D. Method and apparatus for the manufacture of variable dimension fans. 4,669,164, 6-2-87, Cl. 29-156.80R.

Phelpstead, James W.: *See*—
Horsewell, Henry G.; Duke, Martin G.; and Phelpstead, James W., 4,660,579, Cl. 131-339.000.

Phenix, Douglas Michael: *See*—
Davis, Ronald G., 4,637,965, Cl. 429-1.000.

Phenix Heat Pump Systems, Inc.: *See*—
Bourne, Richard C.; Fanciullo, Martin; and Bos, Willem, 4,693,089, Cl. 62-79.000.

Phenix Works: *See*—
Polard, Victor; Palmans, Jean; DuBois, Michel; and Weymeersch, A., 4,670,354, Cl. 428-621.000.

Pherigo, Douglas E., to J. L. Clark Manufacturing Co. Container with plastic hinge. 4,634,019, 1-6-87, Cl. 220-334.000.

Pherson, Thomas R.: *See*—
Krasnicki, Edward J.; Hannibal, Alan J.; and Pherson, Thomas R., 4,676,229, Cl. 128-4.000.

Phi Technologies, Inc.: *See*—
Debell, Lawrence R., 4,636,880, Cl. 360-72.300.

Phibbs, Hugh C. Hand controlled puppet. 4,643,694, 2-17-87, Cl. 446-327.000.

Phiet, Do Q., to Australian Telecommunications Commission. Instant speaker algorithm for digital conference bridge. 4,644,530, 2-17-87, Cl. 370-62.000.

Phifer, John E.: *See*—
Smalley, Robert L.; and Phifer, John E., 4,653,765, Cl. 280-47.200.

Phiffer, Leroy V.: *See*—
Kleffman, David R.; and Phiffer, Leroy V., 4,637,668, Cl. 339-10.000.

Philamon, Inc.: *See*—
Grib, Boris F., 4,644,188, Cl. 307-363.000.

Philapitsch, Anton; Wober, Gunter; Eibl, Johann; and Schwarz, Otto, to Immuno Aktiengesellschaft fur chemisch-medizinische Produkte. Method of inactivating reproducible pathogens. 4,687,664, 8-18-87, Cl. 424-85.000.

Philapitsch, Anton: *See*—
Eibl, Johann; Schwarz, Otto; Elsinger, Fritz; Wober, Gunter; Philapitsch, Anton; Linnau, Yendra; Dorner, Friedrich; Trambauer, Karl; and Frechinger, Wolfgang, 4,640,834, Cl. 424-94.000.

Philbert, Jean-Michel: *See*—
Personnet, Pierre-Bernard; and Philbert, Jean-Michel, 4,702,820, Cl. 208-424.000.

Philbert, Michel, to Office National d'Etudes et de Recherches Aerospatiales (ONERA). Device for analyzing and correcting wavefront surfaces in real time using a polarization interferometer. 4,688,941, 8-25-87, Cl. 356-351.000.

Philbrick, John B.: *See*—
Edwards, John R.; Popov, George D.; and Philbrick, John B., 4,703,376, Cl. 360-105.000.

Philbrick, Julian W.: *See*—
Wiggin, Blanton C.; and Philbrick, Julian W., 4,657,409, Cl. 374-25.000.

Philby, Jonathan D., to AE PLC. Piston rings and their manufacture. 4,655,983, 4-7-87, Cl. 264-297.100.

Philby, Jonathan D., to AE PLC. Pistons for internal combustion engines. 4,677,900, 7-7-87, Cl. 92-212.000.

Philibert, Daniel: *See*—
Jouquey, Alain; Philibert, Daniel; Moguilewsky, Martine; and Veltz, Jean-Noel, 4,664,850, Cl. 260-397.450.
Teutsch, Jean-Georges; Torelli, Vesperto; Deraedt, Roger; and Philibert, Daniel, 4,634,696, Cl. 514-179.000.
Torelli, Vesperto; Teutsch, Jean G.; and Philibert, Daniel, 4,634,695, Cl. 514-178.000.

Philibert, Michel. Natural leaven and method for producing same. 4,670,266, 6-2-87, Cl. 426-19.000.

Philiffe J. H. Berna: *See*—
Brovelli, Jacques C. J., 4,703,194, Cl. 307-116.000.

Philion, Richard E., to Sterling Drug Inc. Alpha-(aminoalkyl)-4-hydroxy-3-(alkylthio)benzenemethanols. 4,695,589, 9-22-87, Cl. 514-653.000.

Philip A. Hunt Chemical Corporation: *See*—
Eilbeck, James N., 4,650,745, Cl. 430-326.000.

Philip, Alexander S.: *See*—
Maddern, Thomas S.; and Philip, Alexander S., 4,648,090, Cl. 370-110.100.

Philip, James B., Jr.: *See*—
Grzeskowiak, Nicholas E.; and Philip, James B., Jr., 4,711,838, Cl. 430-568.000.

Philip, Jose: *See*—
Chafetz, Lester; and Philip, Jose, 4,663,348, Cl. 514-471.000.

Philip Morris Incorporated: *See*—
Chan, W. Geoffrey; and Houminer, Yoram, 4,701,282, Cl. 260-410.90R.
Cox, Richard H.; Grubbs, Harvey J.; and Haut, Stephen A., 4,638,816, Cl. 131-276.000.
Geiszler, Willard A., Jr., 4,700,725, Cl. 131-336.000.
Gellatly, Grant, 4,706,692, Cl. 131-370.000.
Houck, Willie G., Jr.; Nichols, Walter A.; and Newsome, Reginald W., 4,649,944, Cl. 131-336.000.
Houck, Willie G., Jr.; Sprinkel, Francis M., Jr.; Newsome, Reginald W.; Spruill, David B.; and Nichols, Walter A., 4,687,008, Cl. 131-335.000.
Houminer, Yoram; Southwick, Everett W.; and Williams, David L., 4,635,652, Cl. 131-278.000.
Kallianos, Andrew G.; Sprinkel, Francis M., Jr.; and Decker, Paula, 4,677,995, Cl. 131-335.000.
Kallianos, Andrew G.; and Kounnas, Christopher N., 4,696,314, Cl. 131-336.000.
Keritsis, Gus D.; Knudson, Donald B., Jr.; Osmalov, Jerome S.; and Seligman, Robert B., 4,674,519, Cl. 131-355.000.
Lowitz, David A., 4,707,652, Cl. 324-58.50B.
Malik, Vedpal S.; Semp, Bernard A.; Bravo, Hernan G.; and Teng, Daniel M., 4,685,478, Cl. 131-297.000.
Martin, Peter; Wyatt, Avis N., Jr.; Alonso, Hector; Rowe, Norman R.; Southard, Robert S.; and Zimmermann, Stephen G., 4,657,144, Cl. 209-546.000.
Nichols, Walt; Newsome, Reggie; Thesing, Rich; and Houck, Willie, 4,715,390, Cl. 131-335.000.
Nichols, Walter A.; and Newsome, Reginald W., 4,638,818, Cl. 131-281.000.
Nichols, Walter A., 4,646,763, Cl. 131-336.000.
Nichols, Walter A., 4,687,009, Cl. 131-336.000.
Podraza, Kenneth F., 4,690,157, Cl. 131-276.000.
Rainer, Norman B.; and McClung, Charles S., 4,637,408, Cl. 131-331.000.
Rainer, Norman B., 4,715,388, Cl. 131-309.000.
Spiers, Steven F.; Hinson, Harold T.; Smick, William H., II; Shelton, Gregory A.; and Grollimund, Everett C., 4,666,550, Cl. 156-361.000.
Sprinkel, Francis M., Jr., 4,699,158, Cl. 131-336.000.
Thatcher, Richard E.; and Turano, Louis R., 4,646,759, Cl. 131-110.000.
Turano, Louis R.; Callaham, William T.; Sherwood, John F.; and Thatcher, Richard E., 4,696,312, Cl. 131-109.100.
Uydess, Ian L., 4,651,759, Cl. 131-297.000.

Philipenko, Harry M. Soil sample taker and vehicle mounting arrangement. 4,685,339, 8-11-87, Cl. 73-864.450.

Philipp, Clemens: *See*—
Artz, Gerd; Figge, Dieter; and Philipp, Clemens, 4,679,612, Cl. 164-431.000.

Philipp, Gottfried: *See*—
Dislich, Helmut; Arfsten, Nanning J.; Schmidt, Helmut; Philipp, Gottfried; and Tuenker, Gerhard, 4,715,999, Cl. 264-1.100.

Philipp Holzmann AG: *See*—
Illgner, Wolfram, 4,662,134, Cl. 52-223.00R.

Philipp, Peter R.; and Weber, Jean, to Maschinen Fabrik Scharer AG. Method of producing a twisted yarn. 4,685,284, 8-11-87, Cl. 57-295.000.

Philippbar, Jay E.; Smith, Chadwick F.; and Sutter, Leroy V., Jr. Gas insufflation apparatus for use with an arthroscopic laser system. 4,715,372, 12-29-87, Cl. 128-303.100.

Philippe, Jean: *See*—
Sierpinski, Herve; and Philippe, Jean, 4,685,812, Cl. 374-132.000.

Philippe, Michel: *See*—
Rougier, Andre; Dupuis, Didier; Philippe, Michel; Sebag, Herve; and Leger, Didier S., 4,668,664, Cl. 514-29.000.

Philippson, Walter M., to Stewart Stamping Corporation. Low profile jack. 4,703,991, 11-3-87, Cl. 439-676.000.

Philips Home Products, Inc.: *See*—
Carli, Alvin J., 4,661,085, Cl. 464-160.000.

Philips Industries Inc.: *See*—
DeHart, Marvin L.; and Johnson, Dale B., 4,714,009, Cl. 98-40.1

Philips Medical Systems, Inc.: *See*—
Abele, Manlio G.; and Marshall, Christopher H., 4,670,892, Cl. 378-004.000.

Philips, Norbert J. L.: *See*—
Dijkmans, Eise C.; Raets, Joseph G. G.; and Philips, Norbert J. L., 4,688,001, Cl. 330-273.000.
Dijkmans, Eise C.; Raets, Joseph G. G.; and Philips, Norbert J. L., 4,706,035, Cl. 330-156.000.
Dijkmans, Eise C.; Raets, Joseph G. G.; and Philips, Norbert J. L., 4,706,039, Cl. 330-297.000.

Phillip, Harald: *See*—
Williams, Jerry R., 4,645,458, Cl. 434-251.000.

Phillip Holzman Aktiengesellschaft: *See*—
Baumann, Theodor; and Schreyegg, Otmar, 4,662,773, Cl. 405-152.000.

Phillippot, Patrick: *See*—
Carle, Jean-Francois; and Phillippot, Patrick, 4,705,591, Cl. 156-617.0SP.

Phillipps, Gordon H.; and Williamson, Christopher, to Glaxo Group Limited. Substituted pyrimidin-2-ones, the salts thereof, processes for their preparation, pharmaceutical compositions containing them and a method therefor. 4,636,509, 1-13-87, Cl. 514-274.000.

Phillipps, Gordon H.; Bain, Brian M.; and Laing, Stuart B., to Glaxo Group Limited. Androstane carbothioic acids. 4,650,610, 3-17-87, Cl. 260-397.100.

Phillipps, Gordon H.; Williamson, Christopher; Steeples, Ian P.; Bain, Brian M.; and Borella, Raymond A., to Glaxo Group Limited. Substituted pyrimidin-2-ones, the salts thereof, pharmaceutical compositions containing them and a method therefor. 4,650,800, 3-17-87, Cl. 514-259.000.

Phillipps, Malcolm W., to Philmac Pty Limited. Plug valve. 4,708,161, 11-24-87, Cl. 137-375.000.

Phillips, Alan C., to Etak, Inc. Flux gate sensor with improved sense winding gating. 4,646,015, 2-24-87, Cl. 324-253.000.

Phillips, Alan C.: *See*—
Buxton, James L.; Phillips, Alan C.; and Honey, Stanley K., 4,686,642, Cl. 364-607.000.

Phillips, Allyn E.: *See*—
Johnson, Harold R., III; Phillips, Allyn E.; Carrigan, Erwin R.; Virgo, Richard A.; and Mickelson, James E., 4,697,675, Cl. 192-7.000.

Phillips, Asa R.: *See*—
Steenblik, Richard A.; Phillips, Asa R.; Mamay, Daniel P.; Denson, Lawrence K.; Tucker, Richard A.; and Clark, Jimmy M., 4,685,718, Cl. 296-154.000.

Phillips, Bobby M., to Eastman Kodak Company. Spinneret orifices and four-wing filament cross-sections therefrom. 4,707,409, 11-17-87, Cl. 428-397.000.

Phillips, Brian T.: *See*—
Hartman, George D.; and Phillips, Brian T., 4,670,443, Cl. 514-290.000.

Phillips, Brinley M.: *See*—
Messenger, Edward T.; Mather, Douglas E.; and Phillips, Brinley M., 4,692,271, Cl. 252-354.000.

Phillips, Cecil L., to Scott Bader Company Limited. Repairing utility poles. 4,644,722, 2-24-87, Cl. 52-514.000.

Phillips, Cecil L., to Scott Badar Co., Ltd. Repairing utility poles. 4,702,057, 10-27-87, Cl. 52-514.000.

Phillips, Chandler A.: *See*—
Larson, Paul F.; Douglas, Roy D.; Petrofsky, Jerrold S.; and Phillips, Chandler A., 4,697,808, Cl. 272-70.000.

Phillips, Charles A.: *See*—
Fullerton, Larry W., 4,641,317, Cl. 375-1.000.

Phillips, Charles E.; and Hood, Alan M., to Southern California Edison Company, Inc. Meter testing device. 4,646,003, 2-24-87, Cl. 324-74.000.

Phillips, Charles E., to Textron Inc. Voltage regulator for lawn mower engine battery charger. 4,686,445, 8-11-87, Cl. 320-61.000.

Phillips, Charles F., to Emerson Electric Co. Chain-sprocket drive. 4,642,074, 2-10-87, Cl. 474-156.000.

Phillips, Charles R., to Support Technologies, Inc. ROM emulator for diagnostic tester. 4,691,316, 9-1-87, Cl. 371-20.000.

Phillips, Charles W., to Phillips Motor Car Corporation. Method of converting a sedan to a limousine. 4,654,946, 4-7-87, Cl. 29-401.100.

Phillips, David B.: *See*—
O'Hara, Gary J.; and Phillips, David B., 4,662,360, Cl. 128-9.000.

Phillips, David E. Gun silencer using internal reflectance. 4,649,798, 3-17-87, Cl. 89-14.400.

Phillips, Donald L., to Dixie Arc, Inc. Electrode holder assembly and electrode clamp for electric arc furnaces. 4,653,066, 3-24-87, Cl. 373-94.000.

Phillips, Edward H., to Eaton Corporation. Docking apparatus. 4,665,360, 5-12-87, Cl. 324-158.00F.

Phillips, Edward H. Step-and-repeat alignment and exposure system and method therefore. 4,669,866, 6-2-87, Cl. 355-43.000.

Phillips, Edward H., to Compact Spindle Bearing Corporation. Multi-axis gas bearing stage assembly. 4,676,649, 6-30-87, Cl. 356-401.000.

Phillips, Edward H. Steel shell modules for prisoner detention facilities. 4,677,798, 7-7-87, Cl. 52-106.000.

Phillips, Edward H.; and Johannsmeier, Karl-Heinz, to Eaton Corporation. X-Y addressable workpiece positioner and mask aligner using same. 4,687,980, 8-18-87, Cl. 318-640.000.

Phillips, Edward H., to Compact Spindle Bearing Corporation. Dark field alignment and alignment mark systems. 4,704,027, 11-3-87, Cl. 355-43.000.

Phillips, Edwin D. Gripping saddle and O-ring apparatus. 4,669,763, 6-2-87, Cl. 285-346.000.

Phillips, Emyr; and Holt, Brian, to Ciba-Geigy Corporation. Method of removing hydrogen sulphide from gases. 4,637,926, 1-20-87, Cl. 423-573.00R.

Phillips, Gareth T.: *See*—
Robertson, Brian W.; and Phillips, Gareth T., 4,696,901, Cl. 435-180.000.

Phillips, Gary C., to Dow Chemical Company, The. Traveling bed ion exchange contact apparatus and process employing same. 4,661,258, 4-28-87, Cl. 210-661.000.

Phillips, Gerald: *See*—
Goldman, Jerome; Goldman, Marvin; Phillips, Gerald; and Goldman, Terry, 4,678,5o8, Cl. 210-169.000.
Goldman, Jerome; Goldman, Marvin; and Phillips, Gerald, 4,693,817, Cl. 210-169.000.
Goldman, Jerome; Goldman, Marvin; Phillips, Gerald; Goldman, Terry; and Pesin, Joseph, 4,708,089, Cl. 119-5.000.

Phillips, Gerald W.: *See*—
Devon, Thomas J.; Phillips, Gerald W.; Puckette, Thomas A.; Stavinoha, Jerome L.; and Vanderbilt, Jeffrey J., 4,694,109, Cl. 568-454.000.

Phillips, Harold B.; and Bubernak, John. Hanger for a wall covering. 4,676,016, 6-30-87, Cl. 40-617.000.

Philips Home Products: *See*—
Bonacorsi, Robert W., 4,638,730, Cl. 100-229.00A.
Meyer, Lawrence L.; and Bredbeck, Donald H., 4,643,701, Cl. 474-153.000.

Phillips, Howard L. Detonation prevention means for internal combustion engine. 4,699,096, 10-13-87, Cl. 123-182.000.

Phillips, Ian R.; Lodge, Robert H.; and Bunyan, Glen W., to N.J. Phillips Pty. Limited. Injector. 4,642,099, 2-10-87, Cl. 604-136.000.

Phillips, Ian R.; Lodge, Robert H.; and Loveday, Alan A. Tape dispenser. 4,643,059, 2-17-87, Cl. 83-162.000.

Phillips, Ian R.; Lodge, Robert H.; and Bunyan, Glen W., to N. J. Phillips Pty. Limited. Pellet injector. 4,673,387, 6-16-87, Cl. 604-62.000.

Phillips, Ian R., to N.J. Phillips Pty. Limited. Dual barrel injector. 4,673,395, 6-16-87, Cl. 604-191.000.

Phillips, Ian R.; Reynolds, Mervyn F.; and Lodge, Robert H., to N.J. Phillips Pty. Limited. Injector. 4,676,781, 6-30-87, Cl. 604-135.000.

Phillips, James E.; and Lasswell, Patrick G., to University of Delaware, The. Method and apparatus for increasing the durability and yield of thin film photovoltaic devices. 4,640,002, 2-3-87, Cl. 29-574.000.

Phillips, James E.: *See*—
Brown, Trevor J.; and Phillips, James E., 4,635,335, Cl. 29-235.000.

Phillips, James G., to PPG Industries, Inc. Herbicidally active substituted diphenyl ether oxime[1] derivatives. 4,710,582, 12-1-87, Cl. 560-35.000.

Phillips, James H.: *See*—
Lack, Larry H., 4,671,014, Cl. 49-394.000.

Phillips, James P.; and Gunther, Robert A., to Motorola, Inc. Dual band antenna having separate matched inputs for each band. 4,672,685, 6-9-87, Cl. 455-89.000.

Phillips, James S.; and Field, Robert E., to United Technologies Corporation. Film coolant passage with swirl diffuser. 4,669,957, 6-2-87, Cl. 416-97.00R.

Phillips, John W.: *See*—
Meston, Spencer D.; and Phillips, John W., 4,714,216, Cl. 244-3.290.

Phillips, Kenneth G., to Nalco Chemical Company. Rapid solubilization of dry polymers. 4,668,715, 5-26-87, Cl. 523-205.000.

Phillips, Mark S. Circuit for sequentially turning on lamps on an automobile. 4,712,044, 12-8-87, Cl. 315-82.000.

Phillips, Michael. Injectable fomulations of disulfiram for the treatment of alcoholism. 4,678,809, 7-7-87, Cl. 514-599.000.

Phillips, Michael L.: *See*—
Bonjouklian, Rosanne; and Phillips, Michael L., 4,647,685, Cl. 558-169.000.
Bonjouklian, Rosanne; and Phillips, Michael L., 4,659,859, Cl. 558.188.000.
Bonjouklian, Rosanne; and Phillips, Michael L., 4,675,390, Cl. 556-4.100.

Phillips, Morton. Arithmetic educational device. 4,714,429, 12-22-87, Cl. 434-198.000.

Phillips Motor Car Corporation: *See*—
Phillips, Charles W., 4,654,946, Cl. 29-401.100.

Phillips, Nicholas: *See*—
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Bennett, Richard J., 4,683,290, Cl. 528-480.000.
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Bowen, Chester O., 4,706,697, Cl. 137-13.000.
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Brown, Ronald E., 4,713,424, Cl. 585-424.000.
Bruning, Donald D.; and Weir, Donald R., 4,657,944, Cl. 523-130.000.
Burleigh, John; and Uraneck, Carl A., 4,644,024, Cl. 524-99.000.
Burns, Lyle D.; and Stahl, G. Allan, 4,690,219, Cl. 166-307.000.
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Carrow, Guy E., 4,690,632, Cl. 425-429.000.
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Cobb, Raymond L., 4,668,835, Cl. 585-360.000.
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DeLong, Bradley W., 4,680,041, Cl. 62-11.000.
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Drake, Charles A., 4,668,654, Cl. 502-242.000.
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Hill, H. Wayne, Jr.; and Cliffton, Michael D., 4,698,411, Cl. 528-303.000.
Hillburn, Thell L., 4,649,734, Cl. 73-3.000.
Horton, Robert L., 4,661,327, Cl. 423-7.000.
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Howell, Jerald A.; and Kukes, Simon G., 4,708,784, Cl. 208-112.000.
Hsieh, Henry L.; and Yeh, Gene H. C., 4,699,962, Cl. 526-142.000.
Hudson, Paul S.; and Shioyama, Tod K., 4,636,572, Cl. 556-2.000.
Jack, Douglas S.; and Garner, James W., 4,661,318, Cl. 422-62.000.
Johnson, Marvin M.; and McDaniel, Max P., 4,640,964, Cl. 526-134.000.
Johnson, Marvin M., 4,644,090, Cl. 585-749.000.
Johnson, Marvin M.; and Nowack, Gerhard P., 4,716,256, Cl. 585-274.000.
Johnson, Timothy W.; Beever, William H.; O'Connor, James E.; and Blackwell, Jennings P., 4,690,972, Cl. 524-609.000.
Jones, Ronald D.; and Cross, Joseph B., 4,684,041, Cl. 222-161.000.
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Kimble, James B.; and Kolts, John H., 4,654,460, Cl. 585-500.000.
Kimble, Kenneth B.; Bresson, Clarence R.; and Mark, Harold W., 4,650,568, Cl. 209-167.000.
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Kolts, John H.; Bertus, Brent J.; and Coomos, Daniel M., 4,670,134, Cl. 208-251.00H.
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Kukes, Simon G.; and Howell, Jerald A., 4,659,453, Cl. 208-108.000.
Kukes, Simon G.; Nowack, Gerhard P.; and Banks, Robert L., 4,659,688, Cl. 502-208.000.
Kukes, Simon G.; and Parrott, Stephen L., 4,681,869, Cl. 502-349.000.
Kukes, Simon G.; and Parrott, Stephen L., 4,687,568, Cl. 208-251.00H.
Kukes, Simon G., 4,707,465, Cl. 502-219.000.
Larsen, Olaf E., 4,708,841, Cl. 264-558.000.
Lee, Fu-Ming, 4,639,308, Cl. 208-100.000.
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Leland, John E.; Dix, James S.; and Shue, Robert S., 4,659,761, Cl. 524-262.000.
Leland, John E.; Dix, James S.; and Wright, Roy F., 4,680,326, Cl. 524-106.000.
Liang, Yeon F., 4,708,983, Cl. 525-101.000.
Lindstrom, Merlin R.; and Mark, Harold W., 4,637,833, Cl. 106-14.130.
Lindstrom, Merlin R.; and Louthan, Rector P., 4,670,163, Cl. 252-8.555.
Louthan, Rector P.; Lindstrom, Merlin R.; Baldwin, Bernard A.; and Macdonell, Gary D., 4,659,490, Cl. 252-47.500.
Louthan, Rector P., 4,670,602, Cl. 568-26.000.
Low, Jim Y., 4,708,788, Cl. 208-390.000.
Lyon, William G., 4,657,752, Cl. 423-419.00R.
Macdonell, Gary D.; and Kubicek, Donald H., 4,700,004, Cl. 568-26.000.
Mason, Ronald G.; Pitzer, Emory W.; McDaniel, Max P.; Rogers, David L.; and Waterman, James W., 4,681,266, Cl. 241-18.000.
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McDaniel, Max P.; and Smith, Paul D., 4,681,866, Cl. 502-154.000.
McDaniel, Max P.; and Short, James N., 4,690,990, Cl. 526-138.000.
McGregor, Robert E.; and Hubbard, Thomas J., 4,649,386, Cl. 340-870.240.
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Miro, Nemesio D.; Farha, Floyd E.; and Capshew, Charles E., 4,680,351, Cl. 526-125.000.

Montgomery, Dean P.; Gall, James W.; and Davis, Ed D., 4,713,221, Cl. 422-190.000.
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Mumallah, Naim A.; and Shioyama, Tod K., 4,644,073, Cl. 556-2.000.
Needham, Donald G.; and Leland, John E., 4,654,225, Cl. 427-53.100.
Needham, Donald G., 4,668,461, Cl. 264-310.000.
Neff, Dennis B., 4,635,239, Cl. 367-47.000.
Nielsen, Richard H., 4,687,642, Cl. 422-140.000.
Nielsen, Richard H., 4,713,169, Cl. 208-157.000.
O'Connor, James E., 4,680,224, Cl. 428-294.000.
Parrott, Stephen L.; Kukes, Simon G.; and Efner, Howard F., 4,636,487, Cl. 502-168.000.
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Patel, Bharat B., 4,645,609, Cl. 252-8.510.
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Porter, Randall A.; and Reed, Larry E., 4,666,583, Cl. 208-48.0AA.
Porter, Randall A.; and Reed, Larry E., 4,686,201, Cl. 502-154.000.
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Scinta, James, 4,695,214, Cl. 414-221.000.
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Skraba, Frank W., 4,660,588, Cl. 137-8.000.
Skraba, Frank W., 4,675,099, Cl. 208-157.000.
Skraba, Frank W., 4,681,743, Cl. 422-140.000.
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Walker, Starnes E., 4,664,938, Cl. 427-39.000.
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Phillips, Robert, to Jetin Industrial Limited. High pressure liquid cutting method. 4,658,683, 4-21-87, Cl. 83-53.000.
Phillips, Robert A.; and Cassidy, Calvin A., to United States of America, Air Force. Situation awareness mode. 4,673,938, 6-16-87, Cl. 342-95.000.
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Phillips, Thomas S.; and Corso, Anthony J., to Hoechst Celanese Corporation. Water-soluble vinyl sulfonyl-type reactive monoazo yellow dyestuff mixtures with high color yield. 4,699,624, 10-13-87, Cl. 8-524.000.
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Phipps, Cornelius M.; and Pershak, William C., to Plastic Specialties, Inc. Tear open blister package. 4,694,960, 9-22-87, Cl. 206-469.000.

Phipps, Cornelius M., Jr.: *See*—
Phipps, Cornelius M., Sr.; and Phipps, Cornelius M., Jr., 4,680,947, Cl. 66-117.000.

Phipps, Cornelius M., Sr.; and Kolff, James, to Porelon, Inc. Rubber stamp. 4,676,162, 6-30-87, Cl. 101-405.000.

Phipps, Cornelius M., Sr.; and Phipps, Cornelius M., Jr., to Plastic Specialties, Inc. Interchangeable knitting needle system. 4,680,947, 7-21-87, Cl. 66-117.000.

Phipps, David A.: *See*—
Lepp, Nicholas W.; and Phipps, David A., 4,655,001, Cl. 47-57.500.

Phipps, Robert E.: *See*—
Mooney, Charles W.; Phipps, Robert E.; and Kuznicki, William J., 4,635,836, Cl. 224-247.000.
Mooney, Charles W.; Phipps, Robert E.; and Kuznicki, William J., 4,706,350, Cl. 29-25.350.

Phlaphongphanich, Vichai, to Royal American Industries, Inc. Nipple. 4,676,386, 6-30-87, Cl. 215-11.00R.

Phlipot, James R.; Pinkston, Steve R.; and Nurre, Harry, to Essex Industries, Inc. Gas flow control valve. 4,643,215, 2-17-87, Cl. 137-15.000.

Phlipot, James R.; Pinkston, Steve R.; and Seghetti, Leland L., to Essex Industries, Inc. Regulated gas flow control valve. 4,675,246, 4-7-87, Cl. 137-505.110.

Phlippen, Peter W.: *See*—
Kugeler, Kurt; Jaroni, Ulrich; Kelm, Wieland; Phlippen, Peter W.; Schmidtlein, Peter; and Kugeler, Manfred, 4,634,875, Cl. 250-506.100.

Phoenix Aktiengesellschaft: *See*—
Gronau, Joachim; and Heins, Klaus-Jurgen, 4,676,532, Cl. 285-156.000.

Phoenix Controls Corp.: *See*—
Sharp, Gordon P.; Curtiss, William P.; and Yundt, George B., 4,706,553, Cl. 98-115.300.

Phoenix Engineering Ltd.: *See*—
Hodge, William E., 4,664,557, Cl. 405-223.000.

Phoenix Foam Inc.: *See*—
Miutel, Alexander; and Shira, Jerry P., 4,708,977, Cl. 523-402.000.

Phoenix, John T.: *See*—
Morland, Albert H.; and Phoenix, John T., 4,677,729, Cl. 29-426.500.

Phoenix Project Partnership, The: *See*—
Nicksic, Stephen W., 4,670,157, Cl. 210-696.000.

Phoenix, Richard C.: *See*—
Kim, Jonathan J.; Venkateswaran, Viswanathan; and Phoenix, Richard C., 4,676,940, Cl. 264-65.000.

Phoenix Terminal Blocks Inc.: *See*—
Key, Edward H., 4,701,138, Cl. 439-417.000.

Phonetics, Inc.: *See*—
Blanchard, Kenneth E.; and Sanislo, Stephen V., Jr., 4,716,582, Cl. 379-28.000.

Phonix Armaturen-Werke Bregel GmbH: *See*—
Omet, Reinhard; Kindsvater, Hans; and Wall, Hans J., 4,695,796, Cl. 324-226.000.

Phonocardioscope Partners: *See*—
Lund, Walter; Berman, Lou; and Dothan, Felix, 4,679,570, Cl. 128-715.000.

Phormium N.V.: *See*—
Verbeeck, Pierre, 4,644,684, Cl. 47-31.000.

Phosphor Products Company Limited: *See*—
Higton, Malcolm H., 4,672,264, Cl. 313-503.000.

Photo Audio Consumer Electronics Marketing Corporation: *See*—
Fisherman, Carl; and Beare, Eric, 4,680,681, Cl. 362-98.000.

Photo-Me International PCL: *See*—
Flitton, James F., 4,678,305, Cl. 354-203.000.

Photoacoustic Technology, Inc.: *See*—
Arora, Arvind, 4,704,905, Cl. 73-596.000.

Photoflex Products: *See*—
Kester, Eugene A.; Reeves, Scott P.; and Zemanek, Danny, 4,712,756, Cl. 248-165.000.

Photon Chroma, Inc.: *See*—
Plumadore, John D., 4,676,626, Cl. 355-5.000.

Photon Devices, Ltd.: *See*—
Margolin, George D., 4,674,834, Cl. 350-96.250.
Margolin, George D., 4,682,794, Cl. 283-82.000.
Margolin, George D., 4,702,552, Cl. 350-96.250.

Photon Marketing Limited: *See*—
Carter, George A., III; and Dooley, James L., 4,695,058, Cl. 273-311.000.

Phounsombath, Sing K.: *See*—
Palmier, Rene G.; Perrier, Pierre P.; and Phounsombath, Sing K., 4,686,501, Cl. 335-256.000.

Phuc, Tran N., to Senko Medical Instrument Mfg. Co. Ltd. Oscillator for ventilation apparatus for artificial respirator. 4,702,678, 10-27-87, Cl. 417-360.000.

Phung, Ha T. Combination comb, hair trimmer and safety razor. 4,709,475, 12-1-87, Cl. 30-31.000.

Phy, William S., to Fairchild Semiconductor Corporation. Signal ground planes for tape bonded devices. 4,674,808, 6-23-87, Cl. 439-108.000.

Phy, William S., to Fairchild Semiconductor Corporation. Integrated circuit having a pre-attached conductive mounting media and method of making the same. 4,688,075, 8-18-87, Cl. 357-80.000.

Phy, William S.: *See*—
Brueggeman, Michael; Clark, James W.; and Phy, William S., 4,653,175, Cl. 29-574.000.

Physical Sciences, Inc.: *See*—
Frish, Michael B.; Nebolsine, Peter E.; and Pirri, Anthony N., 4,684,781, Cl. 219-121.0LU.
Gelb, Alan, 4,647,351, Cl. 204-98.000.

Physical Systems, Inc.: *See*—
Hutter, Charles G., III, 4,668,546, Cl. 428-40.000.

Physics International Company: *See*—
Wong, Sik-Lam, 4,663,567, Cl. 315-111.210.

Physio-Control Corporation: *See*—
Archer, Michael F., 4,671,591, Cl. 439-346.000.
Hakala, Douglas T.; Bocek, Joseph M.; and Osborn, James G., 4,635,639, Cl. 128-419.00D.
Jones, Paul W.; Merry, Rodney J.; and Linstad, Gregory A., 4,637,749, Cl. 403-322.000.
Jones, Paul W.; and Bardue, Casey M., 4,681,112, Cl. 128-419.00D.

Pi-May, Yang. Structure of roller type conveyer. 4,693,356, 9-15-87, Cl. 193-35.0TE.

Pi-Yu, Ou. Outlet valve for toilet tank. 4,710,986, 12-8-87, Cl. 4-382.00.

PIAA Corporation: *See*—
Kamaya, Masashi, 4,705,198, Cl. 224-329.000.
Kamaya, Masashi, 4,714,223, Cl. 248-291.000.

Piacentino, Renato. Implant device for the surgical treatment of infertility due to obstruction of uterine tubes. 4,713,074, 12-15-87, Cl. 623-12.000.

Piaget, Claude: *See*—
Jarry, Philippe; Haji, Mohamed L.; Guittard, Pierre; Guilleme, Bernard; and Piaget, Claude, 4,683,163, Cl. 428-209.000.

Piaggio & C. S.p.A.: *See*—
Gaddi, Bruno, 4,637,277, Cl. 74-865.000.

Pialet, Joseph W.: *See*—
Koch, Frederick W.; and Pialet, Joseph W., 4,695,390, Cl. 252-47.500.

Piantedosi, Gary G. Rowing attachment for a canoe or the like. 4,649,852, 3-17-87, Cl. 114-363.000.

Piascinski, Joseph J.; and Axelrod, Randolph H., to RCA Corporation. Method for laminating a safety panel to a CRT and the product thereof. 4,656,522, 4-7-87, Cl. 358-247.000.

Piaseckt, Douglas S., to RCA Corporation. Sense circuit with presetting means. 4,668,881, 5-26-87, Cl. 307-530.000.

Piat, Daniel: *See*—
Viot, Jean; Piat, Daniel; Duclos, Alain; and Albert, Simone V., 4,665,595, Cl. 24-616.000.

Piatkowski, Philip, Jr.: *See*—
Volk, Jack R.; and Piatkowski, Philip, Jr., 4,667,187, Cl. 340-641.000.
Volk, Jack R.; and Piatkowski, Philip, Jr., 4,668,946, Cl. 340-641.000.

Piatt, Clair E.: *See*—
Macemon, Herbert J.; Fisher, John L.; Piatt, Clair E.; Martin, Richard W.; Winbigler, Paul H.; and Aishton, Thomas H., 4,665,952, Cl. 140-92.200.
Macemon, Herbert J.; Schlake, Randall L.; Fisher, John L.; Piatt, Clair E.; and Mohney, Hubert L. R., 4,683,919, Cl. 140-92.200.

Piatt, John A.: *See*—
Batchelder, William T.; Piatt, John A.; and Sautter, Kenneth M., 4,647,172, Cl. 354-298.000.
Shulenberger, Arthur M.; and Piatt, John A., 4,637,713, Cl. 355-76.000.

Piatt, Michael J.; Theodoras, James T., II; and Ray, Randy, to Eastman Kodak Company. System for determining orifice interspacings of cooperative ink jet print/cartridges. 4,709,244, 11-24-87, Cl. 346-140.00R.

Piatt, Michael J., to Eastman Kodak Company. Ink jet printer for cooperatively printing with a plurality of insertable print/cartridges. 4,709,245, 11-24-87, Cl. 346-140.00R.

Piatt, Michael J.; and Houser, Kevin L., to Eastman Kodak Company. Adjustable print/cartridge ink jet printer. 4,709,246, 11-24-87, Cl. 346-140.00R.

Piatt, Michael J.; and Houser, Kevin L., to Eastman Kodak Company. High resolution, print/cartridge ink, jet printer. 4,709,247, 11-24-87, Cl. 346-140.00R.

Piatt, Michael J.; and Ray, Randy, to Eastman Kodak Company. Transverse printing control system for multiple print/cartridge printer. 4,709,248, 11-24-87, Cl. 346-140.00R.

Piatt, Michael J.: *See*—
Schneider, John M.; Piatt, Michael J.; Brown, Mark E.; and Bowers, Mark C., 4,638,325, Cl. 346-1.100.

Piatt, Ray. Method for metal bonding of bearings. 4,654,501, 3-31-87, Cl. 219-76.140.

Piatt, Wilson T., Jr.: *See*—
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Vavadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,642,968, Cl. 53-425.000.
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Varadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,667,454, Cl. 53-425.000.

Piatti, Franco: *See*—
Valsecchi, Carlo; Piatti, Franco; and Bazzi, Giuseppe B., 4,683,620, Cl. 24-71.0SK.

zza, Denis L.: *See—*
McNamara, James R.; and Piazza, Denis L., 4,640,544, Cl. 296-181.000.

zza, Michael P.: *See—*
Danaczko, Mark A.; Finn, Lyle D.; Glasscock, M. Sidney; Piazza, Michael P.; Steele, Kenneth M.; and Weaver, Timothy O., 4,696,603, Cl. 405-227.000.

zzola, Gaetano. Heat transfer means to be installed around the barrel of an extruder or injection molding machine. 4,634,361, 1-6-87, Cl. 425-190.000.

er, Earl T., to Eaton Corporation. Trigger operated portable electric tool switch. 4,665,290, 5-12-87, Cl. 200-303.000.

er, Earl T., to Eaton Corporation. Trigger operated portable electric tool switch. 4,698,471, 10-6-87, Cl. 200-302.200.

er, Earl T.: *See—*
Bielinski, Ralph F.; Jaeschke, James R.; Krstic, Slobodan; Piber, Earl T.; and Theisen, Peter J., 4,642,481, Cl. 307-252.0UA.

canol N.V.: *See—*
Van Bogaert, Philippe; and Deconinck, Filip, 4,715,411, Cl. 139-452.000.

card, Bernard, to Commissariat a l'Energie Atomique. Optical microlithography apparatus with a local alignment system. 4,685,807, 8-11-87, Cl. 356-401.000.

card, Didier; and Roblin, Pierre, to Soudure et Mechanique Appliquees Du Val Notre-Dame. Method and apparatus for removing a crashed aircraft. 4,708,251, 11-24-87, Cl. 212-182.000.

card, Jean-Louis, to International Business Machines Corporation. Repetitive sequence data transmission system. 4,642,810, 2-10-87, Cl. 375-37.000.

art, Francois, to Societe de Recherches Industrielles. Pyrano[2,3-g]indoles useful as anti-ulcerous, anti-inflammatory and antalgic agent. 4,680,411, 7-14-87, Cl. 548-430.000.

cini, Fabrizio: *See—*
Tega, Ezio; Piccini, Fabrizio; Mazzini, Marco; and Magi, Raffaello, 4,711,015, Cl. 29-566.200.

ciolo, David: *See—*
Kerins, Gerard J.; Collette, Wayne N.; Beck, Martin H.; Clark, Richard E.; Harry, Ieuan L.; Krishnakumar, Suppayan; Miller, Bryan H.; Nichols, Richard C.; Picciolo, David; Tacito, Louis D.; and Worsowicz, Eileene M., 4,665,682, Cl. 53-452.000.

ciolo, John J.: *See—*
Singh, Jitendra P.; James, Jawana J.; and Picciolo, John J., 4,647,547, Cl. 501-103.000.

ciotto, Robert; Ramel, Francois; Rousseau, Alain; and Touzin, Philippe, to Electronique CKD. Connector for providing electric connection between a portable electronic device and conductors of a wired progressing system. 4,687,268, 8-18-87, Cl. 439-55.000.

cirilli, Robert: *See—*
Chang, Wen-Hsuan; Chau, Michael M.; and Piccirilli, Robert, 4,696,959, Cl. 524-91.000.

cirilli, Robert M.; Christenson, Roger M.; Falk, Frederick A.; and Makhlouf, Joseph M., to PPG Industries, Inc. Urethane-modified vinyl esters. 4,693,846, 9-15-87, Cl. 260-97.000.

cirilli, Robert M.: *See—*
Makhlouf, Joseph M.; Falk, Frederick A.; and Piccirilli, Robert M., 4,639,492, Cl. 525-54.420.

ciuto, Salvatore, to Mar-Sal Machine Co., Inc. Fence machining device. 4,679,605, 7-14-87, Cl. 144-117.00R.

co, Andre , to Societe pour l'Etude et la Fabrication de Circuits Integres Speciaux E.F.C.I.S. Arithmetic and logic unit with overflow indicator. 4,706,209, 11-10-87, Cl. 364-745.000.

coli, Dante E.; and Nadkarni, Pradeep D., to Goodyear Tire & Rubber Company, The. Method for producing braided spiral reinforced hose. 4,668,318, 5-26-87, Cl. 156-149.000.

coli, Dante E., to Goodyear Tire & Rubber Company, The. Method of manufacture of a braided hose. 4,668,319, 5-26-87, Cl. 156-149.000.

colo, Oreste; Visentin, Giuseppina; Blasina, Pietro; and Spreafico, Antonella, to Blaschim S.p.A. Process for the preparation of aryl alkyl ketones. 4,670,603, 6-2-87, Cl. 568-319.000.

colo, Oreste: *See—*
Verga, Alberto; Piccolo, Oreste; and Valoti, Ermanno, 4,698,432, Cl. 548-224.000.

ctti, Albert J.: *See—*
McLennan, William R.; Piccotti, Albert J.; and Rung, Robert, 4,699,217, Cl. 169-37.000.

ch, Josef: *See—*
Cerny, Antonin; Krepelka, Jiri; Rezabek, Karel; Fruhaufova, Maria; Pesak, Milan; Sevcik, Bohumil; Kral, Josef; Borovicka, Antonin; Bilek, Petr; Picmausova, Dagmar; Stuchlik, Josef; Picha, Josef; and Strakova, Jana, 4,692,452, Cl. 514-288.000.

cht, Patrick, to Akzo N.V. Liquid coating composition containing pricants. 4,701,382, 10-20-87, Cl. 428-457.000.

rd, Christian: *See—*
Landron, Jacques; and Pichard, Christian, 4,677,406, Cl. 335-35.000.

ht, Alfred, to General Signal Corporation. Fluid flow sensor. 4,686,450, 8-11-87, Cl. 323-282.000.

e, Luc, to Canadian Patents & Development Limited. Ultrasonic density measurement. 4,677,842, 7-7-87, Cl. 73-32.00A.

e, Richard. Foodstuff slicer. 4,637,138, 1-20-87, Cl. 30-114.000.

e, Roland J.; and Carruthers, John W. Guitar with improved vibrato and tuning adjustment assemblies. 4,686,883, 8-18-87, Cl. 84-313.000.

er, Alfred: *See—*
Beil, Gerhard; Pichler, Alfred; Pachonik, Horst; and Plehnert, Kurt, 4,693,780, Cl. 156-643.000.

Pichler, Gerald P.: *See—*
Nash, Stephen E.; Pichler, Gerald P.; and Brooks, David R., 4,667,968, Cl. 277-134.000.

Pichler, Klaus, to Siemens Aktiengesellschaft. Closure system for a longitudinally divided cable sleeve. 4,715,740, 12-29-87, Cl. 403-313.000.

Pichler, Klaus R.: *See—*
Brefka, Paul E.; and Pichler, Klaus R., 4,636,881, Cl. 360-74.100.

Pichon, Joseph, to Societe Anonyme Dite "l'Equipement Routier". Cornice for bridge, viaduct, or the like. 4,672,781, 6-16-87, Cl. 52-94.000.

Pichot, Jacky; and Oddou, Jacques, to Electricite de France (Service National). Method of transforming a pre-existing heat installation, and control device for implementing the method. 4,696,427, 9-29-87, Cl. 236-1.00E.

Picht, Brian J.: *See—*
Huffman, John W.; Picht, Brian J.; and Tyson, Ben B., 4,684,273, Cl. 400-247.000.

Pick, James M., to Eaton Corporation. Coil frame assembly and the method of making same. 4,698,610, 10-6-87, Cl. 335-281.000.

Pick, James M.: *See—*
Kolze, Lawrence A.; Pick, James M.; and Swanson, Wesley S., 4,697,608, Cl. 137-1.000.

Pick, Rainer: *See—*
Aivasidis, Alexander; Wandrey, Christian; and Pick, Rainer, 4,670,140, Cl. 210-188.000.

Pickard, Murphy L. Apparatus and method for testing prosthetic heart valves. 4,682,491, 7-28-87, Cl. 73-37.000.

Pickart, Loren R., to Bioheal, Inc. Chemical derivatives of GHL-Cu. 4,665,054, 5-12-87, Cl. 514-18.000.

Pickelman, Dale M.: *See—*
Davis, Thomas E.; Schmidt, Donald L.; Kau, Jee I.; Wessling, Ritchie A.; Whipple, Sharon S.; Fibiger, Richard F.; and Pickelman, Dale M., 4,704,324, Cl. 428-308.400.

Picken, Harry B., to Genaire Limited. Hollow core sandwich structures. 4,643,933, 2-17-87, Cl. 428-116.000.

Pickens, Frank D.: *See—*
Harris, Richard J., Jr.; and Pickens, Frank D., 4,687,305, Cl. 350-624.000.

Pickens, Stanley R.: *See—*
DeLue, Norman R.; and Pickens, Stanley R., 4,636,286, Cl. 204-59.00R.

Picker Corporation: *See—*
Palermo, Anthony; and Zupancic, Anton Z., 4,644,573, Cl. 378-15.000.

Picker, Donald H.; and Hydes, Paul C. Combination modality cancer therapy. 4,681,091, 7-21-87, Cl. 128-1.00R.

Picker, Franck, to Scientific Ecology Group, Inc., The. Remotely controlled multishaped container compacting press. 4,685,391, 8-11-87, Cl. 100-242.000.

Picker International, Inc.: *See—*
Amor, William H.; and Levar, Robert E., 4,658,408, Cl. 378-4.000.
Blakeley, Douglas M.; Kershaw, Carolyn A.; and Gangarosa, Raymond E., 4,694,837, Cl. 128-653.000.
DeMeester, Gordon D.; and Maitson, Rodney A., 4,686,692, Cl. 378-4.000.
Dragmen, Kenneth J., Sr., 4,715,591, Cl. 269-322.000.
Furbee, Avery D.; Pfeil, Viktor W.; and Burke, James E., 4,685,118, Cl. 378-114.000.
Gambini, Michael R.; Martone, Ronald J.; Kearns, Donald S.; Enos, Gary W.; Franke, Rudi; and Schoeppy, Herbert, 4,645,933, Cl. 250-363.00S.
Gudaitis, Donald A.; McCaskey, John P.; and Hostetler, Michael S., 4,688,168, Cl. 364-200.000.
Haacke, E. Mark; and Bearden, Francis H., 4,678,996, Cl. 324-309.000.
Haacke, E. Mark, 4,701,706, Cl. 324-309.000.
Haacke, E. Mark, 4,716,368, Cl. 324-309.000.
Holland, G. Neil, 4,703,275, Cl. 324-318.000.
Kerber, Michael M.; and Brunnett, Carl J., 4,674,045, Cl. 364-414.000.
Mattson, Rodney A.; and Williams, Leslie J., 4,663,772, Cl. 378-18.000.
Mattson, Rodney A.; and DeMeester, Gordon D., 4,672,648, Cl. 378-4.000.
Misic, George J.; Lillo, Aarne; Patrick, John L.; and Holland, G. Neil, 4,634,980, Cl. 324-322.000.
Misic, George J., 4,684,895, Cl. 324-322.000.
Nayler, Graham L.; and Pattany, Pradip M., 4,689,560, Cl. 324-306.000.
Pattany, Pradip M.; and Nayler, Graham L., 4,683,431, Cl. 324-306.000.
Plut, Leonard F.; and Nicolay, David, 4,677,477, Cl. 358-111.000.
Sones, Richard A., 4,709,382, Cl. 378-62.000.
Tuy, Heang K.; and Koka, Narasimharao, 4,712,178, Cl. 364-414.000.
Urban, Carol A.; and Morey, Mangala A., 4,674,107, Cl. 378-98.000.
Young, Ian R., 4,683,432, Cl. 324-309.000.

Picker International Limited: *See—*
Gyngell, Michael L., 4,699,148, Cl. 128-653.000.
Gyngell, Michael L.; and Nayler, Graham L., 4,703,268, Cl. 324-309.000.
McGinley, John V. M., 4,710,741, Cl. 335-296.000.
Young, Ian R., 4,642,568, Cl. 324-309.000.
Young, Ian R., 4,644,275, Cl. 324-307.000.

Young, Ian R., 4,646,023, Cl. 324-309.000.
Young, Ian R., 4,703,269, Cl. 324-309.000.

Pickering, J. Larry: *See*—
Betts, William S., Jr.; Pickering, J. Larry; and Black, William E., 4,673,548, Cl. 376-362.000.

Pickering, John F.: *See*—
Yardley, Alfred; and Pickering, John F., 4,694,651, Cl. 60-578.000.

Pickering-Johnson, Sharon A.: *See*—
Haglund, Steve A.; Lohmann, Arthur M.; and Pickering-Johnson, Sharon A., 4,712,478, Cl. 102-424.000.

Pickering, Trevor P.; Paton, George A.; Gusack, James A.; Smith, Thomas E.; Sanders, John H.; Nichols, Sterling M.; Pursoo, Johnson L.; Lindsay, John W.; and Streetman, William E., to BASF Corporation. Process for making electrically conductive textile filaments. 4,704,311, 11-3-87, Cl. 427-393.100.

Pickering, William: *See*—
Baumgartner, Kenneth A.; and Pickering, William, 4,691,149, Cl 318-331.000.

Pickett, David A., to Allied Corporation. Electrical lock-out mechanism for door mounted seat belt retractors. 4,703,950, 11-3-87, Cl. 280-806.000.

Pickett, Frederick P.: *See*—
Lin, Kuo-Chin; and Pickett, Frederick P., 4,689,574, Cl. 324-464.000.

Pickett, Gordon E.: *See*—
Bailey, Philip E.; Pickett, Gordon E.; Luttinger, Manfred; and Umeda, Takashi, 4,713,407, Cl. 524-109.000.

Pickett, Herbert M.; and Farhoomand, Jam, to United States of America, National Aeronautics and Space Administration. Method and means for generation of tunable laser sidebands in the far-infrared region. 4,682,053, 7-21-87, Cl. 307-425.000.

Pickett, John A.; and Macaulay, Ewen D. M., to National Research Development Corporation. Behavior modifying compounds. 4,657,926, 4-14-87, Cl. 514-467.000.

Pickett, John E. P. Microtome disposable blade apparatus. 4,700,600, 10-20-87, Cl. 83-165.000.

Pickford, Terry A.: *See*—
Newbery, Desmond; and Pickford, Terry A., 4,708,054, Cl. 99-450.400.

Pickles, Charles S.: *See*—
Andrews, Howard W., Jr.; Pickles, Charles S.; and Taylor, Attalee S., 4,715,820, Cl. 439-59.000.

Picmausova, Dagmar: *See*—
Cerny, Antonin; Krepelka, Jiri; Rezabek, Karel; Fruhaufova, Maria; Pesak, Milan; Sevcik, Bohumil; Kral, Josef; Borovicka, Antonin; Bilek, Petr; Picmausova, Dagmar; Stuchlik, Josef; Picha, Josef; and Strakova, Jana, 4,692,452, Cl. 514-288.000.

Pico Electronics Limited: *See*—
Campbell, David C., 4,638,299, Cl. 340-310.00A.

Pico-Glass S.p.A.: *See*—
Astolfi, Pietro, 4,704,814, Cl. 40-152.100.
Astolfi, Pietro, 4,707,937, Cl. 40-152.100.

Picollo, August J. Reusable concrete curb inlet form. 4,637,585, 1-20-87, Cl. 249-10.000.

Picone, John D.; and Cronauer, Edward A., to United Technologies Corporation. Reset circuit in a magnetic modulator. 4,684,821, 8-4-87, Cl. 307-106.000.

Picone, Syd; and Picone, Terrence F., to Armour Products. Vehicle identification system. 4,652,337, 3-24-87, Cl. 156-654.000.

Picone, Terrence F.: *See*—
Picone, Syd; and Picone, Terrence F., 4,652,337, Cl. 156-654.000.

Picone, Thomas L.; Augustine, Robert J.; and Appel, Eggert, to Fischer & Porter Co. Electromagnetic flowmeter with capacitance type electrodes. 4,658,652, 4-21-87, Cl. 73-861.120.

Picquendar, Jean E.: *See*—
Yarranton, Arthur; Chase, Charles E., Jr.; and Picquendar, Jean E., 4,639,697, Cl. 333-155.000.

PicTel Corporation: *See*—
Hinman, Brian L., 4,661,849, Cl. 358-136.000.

Pictet, Raymond: *See*—
Rutter, William J.; Pictet, Raymond; Chirgwin, John; Goodman, Howard M.; Ullrich, Axel; and Shine, John, 4,652,525, Cl. 435-253.000.

PictureTel Corporation: *See*—
Bernstein, Jeffrey G., 4,703,349, Cl. 358-133.000.
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Pidcock, Anthony; and Wray, Andrew P., to Rolls-Royce plc. Combustion apparatus for a gas turbine engine. 4,693,074, 9-15-87, Cl. 60-39.320.

Pidgeon, Alastair N.; and Webb, Arthur L., to Marconi Company Limited, The. Solar cell arrays. 4,683,348, 7-28-87, Cl. 136-246.000.

Pido, Jean-Claude, to Creusot-Loire. Quick-action coupling for an extension tube used in oil-well drilling. 4,652,021, 3-24-87, Cl. 285-81.000.

Pidsosny, Richard A.: *See*—
Burke, Michael J.; Pidsosny, Richard A.; and Lehner, Gerald J., 4,710,888, Cl. 364-561.000.
Porter, Frederick J.; and Pidsosny, Richard A., 4,703,198, Cl. 307-473.000.

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Kwasuik, Hans-Jurgen; and Piduch, Hans-Gunter, 4,673,463, Cl. 201-41.000.

Piechota, Stanley E., Jr., to Colgate-Palmolive Company. Anhydrous dentifrice. 4,647,451, 3-3-87, Cl. 424-52.000.

Pieck, Amandus L. E.: *See*—
Doucet, Jozef G. A.; Pieck, Amandus L. E.; and De Blauwe, Francis J. A. M. C., 4,675,512, Cl. 219-535.000.
Vansant, Jan; Overbergh, Noel; Buekers, Valere; and Pieck, Amandus L. E., 4,641,009, Cl. 219-200.000.
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Albrecht, Karl-Hans; Luhr, Hartmut; and Pieck, Gunter, 4,693,294, Cl. 164-312.000.

Pieczykolan, George S., to Central Sprinkler Corporation. Low preload self-sealing quick release valve for sprinkler head. 4,648,45[illegible] 3-10-87, Cl. 169-38.000.

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Killough, Ray B.; Higgins, Alan S.; and Broome, Thomas M., 4,658,634, Cl. 73-3.000.

Pieh, Stefan; and Krammer, Johann, to Chemie Linz Aktiengesellschaft. Long-shelflife concentrated aqueous solutions of melamine-formaldehyde condensates, preparation and use thereof. 4,707,508, 11-17-87, Cl. 524-106.000.

Piekenbrock, Lawrence J. Method and apparatus for handling information. 4,656,666, 4-7-87, Cl. 455-12.000.

Piele, Gerald H., to Sperry Corporation. Combined monopulse comparator and adaptive noise canceller for antennas. 4,658,256, 4-14-87, Cl. 342-383.000.

Piele, Gerald H.: *See*—
Brown, Ralph A.; and Piele, Gerald H., 4,656,484, Cl. 343-761.000.

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Burk, Jeffrey L.; Bottas, Michael J.; Pielemeier, John W.; and Mueller, Dale E., 4,693,095, Cl. 68-134.000.

Pielet, Howard M.; Lazaridis, Nassos A.; and O'Neil, Robert D., to Inland Steel Company. Method for adding bismuth to steel in a ladle. 4,666,515, 5-19-87, Cl. 420-85.000.

Pielet, Howard M.: *See*—
Knoepke, John R.; Pielet, Howard M.; Frank, Larry A.; and Rellis, Daniel, Jr., 4,667,715, Cl. 164-453.000.

Piels, Barry Y.: *See*—
Simmel, Thomas L.; Crossley, David W.; and Morehouse, Mark N., 4,695,267, Cl. 446-462.000.

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Erdman, Edward P.; and Pieniak, Heinz A., 4,676,784, Cl. 604-368.000.

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Pienta, Joseph J.: *See*—
Krusas, James J.; and Pienta, Joseph J., 4,711,539, Cl. 351-63.000.

Pienta, Lothar: *See*—
Mueller, Fritz; and Pienta, Lothar, 4,641,533, Cl. 73-706.000.
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Pienta, William T.: *See*—
Payne, Peter P.; and Pienta, William T., 4,694,192, Cl. 307-39.000.

Piepenbreier, Ernst, to Thyssen Industrie AG. Universal double coupling. 4,664,037, 5-12-87, Cl. 105-131.000.

Pieper, Friedrich: *See*—
Willmund, Wolf-Dieter; Plapper, Jurgen; Pieper, Friedrich; and Heidrich, Jochen, 4,654,042, Cl. 8-94.220.

Pieper, Helmut; Knauer, Adolf; and Sorg, Helmut, to Sorg GmbH & Co. KG. Glass melting furnace with bottom electrodes. 4,687,50[illegible] 8-18-87, Cl. 65-326.000.

Pieper, Norbert: *See*—
Kolb, Dieter; and Pieper, Norbert, 4,640,398, Cl. 192-70.180.

Pieper, Werner, to Hoechst Aktiengesellschaft. Process for making chloroisocyanuric acids. 4,645,835, 2-24-87, Cl. 544-190.000.

Pieper, Werner, to Hoechst Aktiengesellschaft. Carboxytetralinephosphonic acids and process for making them. 4,692,281, 9-8-87, Cl. 260-502.40R.

Pieper, Werner, to Hoechst Aktiengesellschaft. Phenyltetraline-diphosphonic acids and process for making them. 4,692,282, 9-8-87, Cl. 260-502.40P.

Pieper, Wolfgang: *See*—
Finck, Albin; Gleixner, Ronald; Hoechamer, Horst; and Pieper, Wolfgang, 4,660,015, Cl. 336-192.000.
Horn, Guenther; Pieper, Wolfgang; and Roeser, Heribert, 4,646,047, Cl. 336-192.000.
Horn, Gunther; Pieper, Wolfgang; and Roeser, Heribert, 4,649,36[illegible] Cl. 336-192.000.

Pieperbeck, Norbert: *See*—
Losch, Hans-Wilhelm; Kleinrahm, Rainer; Pieperbeck, Norbert; and Wagner, Wolfgang, 4,678,048, Cl. 177-212.000.

Piepho, Ralf F., to Ralf F. Piepho Abwassertechnik GmbH. Treatment of emulsions and industrial waste waters. 4,693,819, 9-15-87, Cl. 210-202.000.

Pierantozzi, Ronald: *See*—
Cabrera, Alejandro L.; Kirner, John F.; Miller, Robert A.; and Pierantozzi, Ronald, 4,714,632, Cl. 427-255.100.
Dyer, Paul N.; Nordquist, Andrew F.; and Pierantozzi, Ronald, 4,652,587, Cl. 518-717.000.
Dyer, Paul N.; Pierantozzi, Ronald; and Withers, Howard [illegible] 4,670,472, Cl. 518-700.000.
Dyer, Paul N.; Pierantozzi, Ronald; and Withers, Howard [illegible] 4,681,867, Cl. 502-242.000.

Pierburg GmbH & Co KG: *See*—
Hartig, Gunter, 4,672,928, Cl. 123-143.00B.
Kampelmuhler, Franz, 4,657,737, Cl. 422-94.000.

Pierce, Allan A., to Kimberly-Clark Corporation. Folding apparatus and method. 4,648,861, 3-10-87, Cl. 493-333.000.

Pierce, Ben A.; Curtin, Leonard E.; Chan, Aaron; and Coffelt, Steven R., to Harris Corporation. Direct access test unit for central office. 4,670,898, 6-2-87, Cl. 379-22.000.

Pierce, Benjamin J.: *See*—
Dekeyser, Mark A.; Pierce, Benjamin J.; Moore, Richard C.; and Hubbard, Winchester L., 4,634,690, Cl. 514-81.000.

Pierce, Claudia C.; Robinson, Robert S.; and Kneller, James F., to Nalco Chemical Company. Carboxylate N-vinylamide copolymers for internal scale control and passivation in high pressure boiler systems. 4,711,726, 12-8-87, Cl. 210-701.000.

Pierce-Cottell Corporation: *See*—
Cottell, Charles D., Jr., 4,676,340, Cl. 182-2.000.

Pierce, David L.; and Wisniewski, Judy L., to Dow Corning Corporation. Inflatable surgical implant with variable inflation position. 4,662,357, 5-5-87, Cl. 128-1.00R.

Pierce, Dorothy A.: *See*—
Okubara, Patricia A.; Pierce, Dorothy A.; and Nutter, Robert C., 4,670,399, Cl. 435-317.000.

Pierce, Elizabeth C.: *See*—
Pierce, Milton R.; and Pierce, Elizabeth C., 4,708,346, Cl. 273-164.000.

Pierce, Fred C., II: *See*—
Foster, J. Marlo; and Pierce, Fred C., II, 4,669,552, Cl. 173-117.000.

Pierce, Gerald A.; and Buxton, James L., to Drexler Technology Corporation. Quad density optical data system. 4,634,850, 1-6-87, Cl. 235-487.000.

Pierce, John N.: *See*—
Parl, Steen A.; and Pierce, John N., 4,670,885, Cl. 375-1.000.

Pierce, Keith: *See*—
Popeski, Fred; and Pierce, Keith, 4,702,480, Cl. 273-384.000.

Pierce, Lyle R. Multi-function switch-controlled lamp circuit. 4,695,739, 9-22-87, Cl. 307-141.000.

Pierce, Michael L. Method and apparatus for production of color images. 4,647,182, 3-3-87, Cl. 355-4.000.

Pierce, Milton R.; and Pierce, Elizabeth C. Golf club with alignment device. 4,708,346, 11-24-87, Cl. 273-164.000.

Pierce, Neil J.: *See*—
Jeffery, Jon R.; and Pierce, Neil J., 4,697,419, Cl. 60-464.000.

Pierce, Richard A., and Wilson, David A., to Dow Chemical Company, The. Silicone reaction products and glycol compositions containing the products. 4,643,839, 2-17-87, Cl. 252-75.000.

Pierce, Richard A.; and Masterson, Tipton T., to Dow Chemical Company, The. High efficiency superplasticizer comprising a sulfonated copolymer of styrene and alpha-mestyrene for cement compositions. 4,704,415, 11-3-87, Cl. 524-8.000.

Pierce, Richard H.: *See*—
Cheney, Richard F.; and Pierce, Richard H., 4,687,510, Cl. 75-0.50B.

Pierce, Robert H., to Vetco Offshore, Inc. Composite marine riser system. 4,634,314, 1-6-87, Cl. 405-195.000.

Pierce, Stanley L., to Ford Motor Company. Countershaft automatic transmission. 4,693,129, 9-15-87, Cl. 74-333.000.

Pierce, Wayne. Wheeled vehicle for stringing a cable. 4,643,370, 2-17-87, Cl. 242-86.700.

Pierce, Webster, Jr. Magnetic fire blanket. 4,650,002, 3-17-87, Cl. 169-50.000.

Pierce, William C., and Smith, John P., to Lear Siegler, Inc. Trailing arm suspension with wrapper compression axle mounting. 4,693,486, 9-15-87, Cl. 280-80.00R.

Pierce, William C.: *See*—
Hagan, Lyle M.; and Pierce, William C., 4,634,141, Cl. 280-704.000.

Pierce, Willis B.: *See*—
Owen, Fred T., 4,653,431, Cl. 119-61.000.

Pierder, Ludwig. Meat packaging apparatus with backflow restrictor. 4,662,849, 2-17-87, Cl. 17-49.000.

Pierder, Ludwig. Meat packaging apparatus. 4,651,498, 3-24-87, Cl. 53-122.000.

Pierth, Richard J.; Potter, Robert L.; and Williams, John R., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Semi-automated directory assistance systems. 4,677,609, 6-30-87, Cl. 370-60.000.

Pier, Roger; and Fringant, Jean C., to Videocolor. Process for adjusting a deflection unit for a three aligned gun television tube and device for reducing to practice said process. 4,709,191, 11-24-87, Cl. 315-370.000.

Pierick, Edward G.: *See*—
Caputi, Roger W.; Pierick, Edward G.; Brumley, Dennis V.; and Kincaid, Charles B., 4,664,754, Cl. 203-39.000.

Pierk, Henry, to California Pellet Mill Company. Mash pelleting apparatus. 4,659,299, 4-21-87, Cl. 425-72.00R.

Pierni, Giancarlo: *See*—
Giuffre, Luigi; Modica, Giovanni; Maffi, Silvia; Tempesti, Ezio; and Pierini, Giancarlo, 4,663,012, Cl. 204-296.000.

Pierni, Marco: *See*—
Bruno, Mario; and Pierini, Marco, 4,713,619, Cl. 324-460.000.

Pierrone, Alain; Soots, Georges; Logier, Regis; and Delecroix, Michel. Pump regulation device. 4,662,355, 5-5-87, Cl. 128-1.00D.

Pier, Robert; Ritterbex, Horst; Jost, Frantisek; and Rommerskirchen, Hans J., to Henkel Kommanditgesellschaft auf Aktien. Aqueous concentrates of salts of α-sulfonated fatty acid alkyl esters. 4,668,438, 5-26-87, Cl. 260-400.000.

Piersol S.p.A.: *See*—
Villa, Carlo; Vecchiolino, Alvise P. G.; and Mangia, Alberto, 4,675,196, Cl. 426-271.000.

Pierrat, Frank A.: *See*—
Shutske, Gregory M.; and Pierrat, Frank A., 4,695,573, Cl. 514-290.000.

Pierrat, Gerard: *See* –
Rollot, Pierre; Pierrat, Gerard; and Le Scour, Claude, 4,669,708, Cl. 266-193.000.

Pierre, Charbonnel: *See*—
Leseure, Jean-Yves; Pierre, Charbonnel; and Laure, Christian, 4,638,167, Cl. 250-551.000.

Pierre, Jacky: *See*—
Alicot, Michel; and Pierre, Jacky, 4,657,751, Cl. 423-407.000.

Pierre, Jacques: *See*—
Anzola, Michel; Lefevre, Daniel; Massicot, Patrick; Pierre, Jacques; and Henry, Antoine, 4,673,585, Cl. 427-6.000.

Pierre, Poirier: *See*—
Denis, Jean; and Pierre, Poirier, 4,660,924, Cl. 350-96.100.

Pierrel, Michel: *See*—
Gourmel, Yves; and Pierrel, Michel, 4,690,199, Cl. 164-421.000.
Gourmel, Yves; and Pierrel, Michel, 4,693,297, Cl. 164-447.000.

Pierrel SpA: *See*—
Toscano, Luciano, 4,673,736, Cl. 536-7.200.

Pierrot, Henri: *See*—
Lemarquand, Pierre; and Pierrot, Henri, 4,635,013, Cl. 335-20.000.

Pierschbacher, Michael D.: *See*—
Luoslahti, Erkki I.; and Pierschbacher, Michael D., 4,661,111, Cl. 623-11.000.

Pierse, Dermot J.: *See*—
Hoskin, William J.; and Pierse, Dermot J., 4,671,283, Cl. 128-354.000.

Pierson, Henri G. W., to D and C Ltd. Endless belt batch filtration apparatus. 4,708,798, 11-24-87, Cl. 210-385.000.

Pierson, Karl B.; Mooney, Thomas E.; and Jones, William G., to Betts Industries, Inc. Fluid power operated sliding gate valve system for tank trucks, pipelines, storage tanks and the like. 4,709,901, 12-1-87, Cl. 251-58.000.

Pierson, Martha, to Health Research, Inc. Activated aminoglycosides and aminoglycoside-aminocyclitols pharmaceutical compositions and method of use. 4,645,760, 2-24-87, Cl. 514-39.000.

Piesbergen, Ulrich: *See*—
Vajda, Vladimir; Nebelung, Hermann H.; and Piesbergen, Ulrich, 4,662,923, Cl. 65-29.000.

Piesch, Reinhold: *See*—
Richter, Martin; and Piesch, Reinhold, 4,648,004, Cl. 361-143.000.

Piesik, Edward T., to General Dynamics, Pomona Division. Gas management transition device. 4,683,798, 8-4-87, Cl. 89-1.816.

Piesik, Edward T., to General Dynamics, Pomona Division. Exhaust dissipator device. 4,685,533, 8-11-87, Cl. 181-213.000.

Piesik, Edward T., to General Dynamics, Pomona Division. Gas management deflector. 4,686,884, 8-18-87, Cl. 89-1.816.

Piesik, Edward T., to General Dynamics, Pomona Division. Exhaust dissipator/disrupter device. 4,709,780, 12-1-87, Cl. 181-213.000.

Piet, Meyer, to Futurecraft Corporation. Valve. 4,664,151, 5-12-87, Cl. 137-625.660.

Pieters, Wim J. M.; and Okumura, Yoshiharu, to Exxon Research & Engineering Co. Two stage process for improving the catalyst life of zeolites in the synthesis of lower olefins from alcohols and their ether derivatives. 4,638,106, 1-20-87, Cl. 585-640.000.

Pietkivitch, Albert, to Hackler, Walter A. Occlusal impression device. 4,676,748, 6-30-87, Cl. 433-71.000.

Pietrafesa, Michael, to Eugene Doll & Novelty Co., Inc. Multi-function baby doll accessory. 4,664,396, 5-12-87, Cl. 280-30.000.

Pietrasanta, Yves: *See*—
Bauduin, Gerard; Boutevin, Bernard; Deiss, Willy-Jean; and Pietrasanta, Yves, 4,638,018, Cl. 522-103.000.

Pietrasz, Vincent: *See*—
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Ward, Thomas H.; Costanzo, Phillip A.; Pietrasz, Vincent; and Soeder, Edmund J., 4,710,344, Cl. 419-8.000.

Pietraszek, Mitchell E. Arrow rest. 4,676,220, 6-30-87, Cl. 124-41.00A.

Pietrini, Victor: *See*—
Oswald, Peter; and Pietrini, Victor, 4,646,387, Cl. 19-0.230.

Pietro Cucchi & C. S.r.L.: *See*—
Cucchi, Giovanni; and Cucchi, Pietro, 4,664,002, Cl. 82-2.700.

Pietro Dondi & Figli S.r.l.: *See*—
Dondi, Giuliano, 4,682,427, Cl. 37-91.000.

Pietryk, Erwin; and Rauthmann, Axel, to Ford Motor Company. Water pump for window washer unit. 4,679,983, 7-14-87, Cl. 415-152.00A.

Pietryka, Joseph; and Cazaux, Joel, to Fives-Cail Babcock. Continuous casting machine. 4,706,733, 11-17-87, Cl. 164-416.000.

Pietrzak, Carl M., Jr.: *See*—
Bocci, Paul M.; Pietrzak, Carl M., Jr.; and Wilson, Alan L., 4,710,945, Cl. 375-100.000.
Bocci, Paul M.; Pietrzak, Carl M., Jr.; and Wilson, Alan L., 4,710,957, Cl. 380-42.000.

Pietsch, Gunther; and Hartmann, Claus, to Papierfabrik August Koehler AG. Process for encapsulating dissolved reactants of color reaction system and resulting capsules. 4,684,574, 8-4-87, Cl. 428-402.200.

Pietsch, Hanns; Kartheus, Holger; and Reul, Helmut, to Beiersdorf Aktiengesellschaft. Heart valve prosthesis. 4,643,732, 2-17-87, Cl. 623-2.000.

Pietsch, Helge: *See*—
Misher, Hans-Peter; and Pietsch, Helge, 4,638,982, Cl. 267-131.000.

Pietzarka, Friedrich W.: *See*—
Schwarz, Hans-Dieter; Pietzarka, Friedrich W.; Lichtenthaler, Werner; and Muhlhaus, Ludwig, 4,681,157, Cl. 165-145.000.

Pietzcker, Dirk. Heat exchanger and a method and apparatus for the manufacture thereof. 4,692,979, 9-15-87, Cl. 29-157.30C.

Pietzsch, Gerko C., to Bush Boake Allen Limited. Perfumery compositions, products and methods. 4,657,701, 4-14-87, Cl. 252-522.00A.

Pietzsch, Kurt E.; and Bonnyay, Laszlo, to Dorr-Oliver Incorporated. Vacuum filter for the separation of solids from liquids. 4,640,775, 2-3-87, Cl. 210-387.000.

Pietzsch, Ludwig; Overlach, Knud; Senger, Detlef; and Breunig, Walter, to Dr. Ludwig Pietzsch GmbH. Method of and system for optoelectronic inspection of a two-dimensional pattern on an object. 4,692,943, 9-8-87, Cl. 382-8.000.

Piewitt, Gunter: *See*—
Harting, Dietmar; Nagel, Hans; and Piewitt, Gunter, 4,634,206, Cl. 339-103.00M.

Piezo-Ceram Electronique: *See*—
Pescatore, Richard; and Boumendil, Jean-Jack, 4,708,645, Cl. 432-152.000.

Piezo Electric Products, Inc.: *See*—
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Murphy, Donald, 4,684,328, Cl. 417-322.000.
Rice, Roy W.; Kahn, Manfred; and Shadwell, Damian E., 4,683,161, Cl. 428-178.000.

Piezo Sona-Tool Corporation: *See*—
Kompanek, Harry W.; Ligman, James R.; and Plambeck, Eric D., 4,658,897, Cl. 166-249.000.
Plambeck Eric D., 4,682,070, Cl. 310-334.000.

Piezoelectric Technology Investors, Ltd.: *See*—
Alsenz, Evert C.; Juptner, William F.; and Macy, David F., 4,654,663, Cl. 340-870.300.

Piffard, Jean-Francois: *See*—
Belot, Dominique; Rade, Jean-Yves; Piffard, Jean-Francois; Larquet, Christian; and Cornut, Philippe, 4,698,218, Cl. 423-347.000.

Piganeau, Thierry, to Societe Anonyme de Telecommunications. Optical immersed type photovoltaic detector. 4,636,828, 1-13-87, Cl. 357-30.000.

Pigeon Corp.: *See*—
Sano, Takashi, 4,711,167, Cl. 99-510.000.

Pigeroulet, Jean: *See*—
Eblen, Ewald; Hofmann, Karl; Holzgrefe, Volker; Pigeroulet, Jean; Rodriguez-Amaya, Nestor; Simon, Nikolaus; Trachte, Dietrich; Weiss, Friedrich; and Ziegler, Ewald, 4,653,455, Cl. 123-506.000.
Leblanc, Jean; Pigeroulet, Jean; and Rossignol, Francois, 4,648,556, Cl. 239-88.000.
Leblanc, Jean; Pigeroulet, Jean; and Rossignol, Francois, 4,669,659, Cl. 239-91.000.

Piggott, David C., to PCL Packaging Ltd. Plastic bag handle aperture forming apparatus. 4,636,191, 1-13-87, Cl. 493-227.000.

Piglia, Peter J.: *See*—
Cacioppo, Joseph C.; Wuerzer, Donald R.; and Piglia, Peter J., 4,705,976, Cl. 310-232.000.

Pigmans, Henricus J. M.: *See*—
Huisman, Hendrikus F.; and Pigmans, Henricus J. M., 4,678,705, Cl. 428-315.900.

Pignataro, Dominic F., to Walker Magnetics Group, Inc. Magnetic chuck. 4,663,602, 5-5-87, Cl. 335-286.000.

Pignoni, Anthony R.: *See*—
Zieger, Dietmar; Pignoni, Anthony R.; Geise, Heinz-Dieter; Fisher, Mike; and Pointer, R. LaVerne, 4,672,481, Cl. 360-14.100.

Pigott, John M., to Motorola, Inc. Delay circuit. 4,712,026, 12-8-87, Cl. 307-600.000.

Piher Navarra, S.A.: *See*—
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Pihlaja, Roger K., to Dow Chemical Company, The. Test device and method for testing foam material. 4,649,735, 3-17-87, Cl. 73-12.000.

Piironen, Timo H., to Valtion Teknillinen Tutkimuskeskus. Lighting device. 4,651,262, 3-17-87, Cl. 362-350.000.

Pike, August A.: *See*—
London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.
London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,704,976, Cl. 112-262.200.

Pike, Barry G., to Lever Brothers Company. Hair dye composition. 4,662,892, 5-5-87, Cl. 8-410.000.

Pike, Barry G.: *See*—
Callingham, Martin; Chaudhuri, Dwaipayan; Curry, Kenneth V.; Pike, Barry G.; and Taylor, Michael B., 4,650,670, Cl. 424-65.000.

Pike, Brian R., to Furlong, Patrick J. Apparatus and method of forming a sterile product package. 4,636,391, 1-13-87, Cl. 426-106.000.

Pike, Bruce J.: *See*—
Metcalf, Eric; Ormiston, Peter; Skinner, Michael J.; and Pike, Bruce J., 4,663,965, Cl. 73-49.300.

Pike, Carl D. Motorcycle auxiliary gearshift. 4,633,727, 1-6-87, Cl. 74-474.000.

Pike, Charles T.; Furumoto, Horace W.; and Levin, Lawrence A., to Jersey Nuclear-Avco Isotopes, Inc. Frequency swept laser system for isotope excitation. 4,636,287, 1-13-87, Cl. 204-157.150.

Pike, Harold. Hand control for electrosurgical electrodes. 4,655,215, 4-7-87, Cl. 128-303.140.

Pike, Harold W. E.: *See*—
Tuckley, Trevor R.; and Pike, Harold W. E., 4,690,412, Cl. 277-184.000.

Pike, John V.: *See*—
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Pike, Kelly A.: *See*—
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Pike, Roger B.: *See*—
Scott-Kestin, Colin B.; Pike, Roger B.; Watkins, Roger D.; Gillespie, Arthur B.; and Deighton, Michael O., 4,679,430, Cl. 73-290.00V.

Pike, Roscoe A., to United Technologies Corporation. Amorphous hydrated metal oxide primer for composite fibers. 4,678,820, 7-7-87, Cl. 523-200.000.

Pike, Roscoe A., to United Technologies Corporation. Method for adhesion of grit to blade tips. 4,689,242, 8-25-87, Cl. 427-34.000.

Pike, Roscoe A.: *See*—
Vontell, John H.; and Pike, Roscoe A., 4,680,199, Cl. 427-199.000.

Pike, Russell E.: *See*—
Rane, Dinanath F.; Desai, Jagdish A.; and Pike, Russell E., 4,695,579, Cl. 514-397.000.

Pike, Susan C., to Eastman Kodak Company. Electrographic development apparatus having a continuous coil ribbon blender. 4,634,258, 1-6-87, Cl. 366-320.000.

Pike, Thomas W.: *See*—
Nye, Leroy M., Jr.; and Pike, Thomas W., 4,639,124, Cl. 355-15.000.

Pike, Timothy D., to f.m.e. Corporation. Postage meter cover assembly. 4,650,973, 3-17-87, Cl. 235-1.00D.

Pike, Timothy D.: *See*—
Payn, Ward J.; and Pike, Timothy D., 4,658,123, Cl. 235-101.000.

Pike, William C.: *See*—
Bollands, Martin A.; Pike, William C.; Thukral, Prem S.; and Woolmington, Timothy P., 4,715,455, Cl. 175-402.000.

Pikkujamsa, Esa: *See*—
Hautala, Jouko; and Pikkujamsa, Esa, 4,705,631, Cl. 210-403.000.

Pikora, Alfred J. Digital image proportion analyzer. 4,633,591, 1-6-87, Cl. 33-452.000.

Pikulski, Joseph I.; and Ramer, O. Glenn, to Hughes Aircraft Company. Fiber optic to integrated optical chip coupler. 4,647,147, 3-3-87, Cl. 350-96.170.

Pikulski, Joseph L.; and Ramer, O. Glenn, to Hughes Aircraft Company. Fiber optic solderable bulkhead fitting. 4,708,431, 11-24-87, Cl. 350-96.200.

Pikulski, Joseph L.: *See*—
Blair, G. Richard; and Pikulski, Joseph L., 4,669,821, Cl. 350-96.340.

Pikus, Evgeny A.: *See*—
Asatiani, Georgy N.; Pikus, Evgeny A.; Kutelia, Elgudzha R.; Tsivtsivadze, David M.; Mudzhiri, Yason N.; and Dzhalabadze, Nikolai V., 4,695,360, Cl. 204-404.000.

Pilachowski, Martin, to Wacker Corporation. Vibratory compactor having improved cast base. 4,643,611, 2-17-87, Cl. 404-133.000.

Pilarski, James A.: *See*—
Anderson, Robert L.; Pilarski, James A.; and Klintz, Jerry A., 4,639,653, Cl. 318-599.000.

Pilarski, Richard J.: *See*—
Geisel, Donald J.; Crotty, C. Alan; and Pilarski, Richard J., 4,699,575, Cl. 418-104.000.

Pilat, Boris V.: *See*—
Feofanov, Vitaly A.; Pilat, Boris V.; Zhdanovich, Larisa P.; Romanenko, Anatoly G.; Lukhanin, Boris S.; Donets, Oleg V.; and Korobochkin, Valery P., 4,655,895, Cl. 204-213.000.

Pilat, John F., to Data General Corporation. Encachement apparatus using multiple caches for providing multiple component values to form data items. 4,652,995, 3-24-87, Cl. 364-200.000.

Pilat, John F.; Jones, Thomas M.; Nealon, James T.; Davidian, Gary; and Bowden, Paul, to Data General Corporation. Encachement apparatus using two caches each responsive to a key for simultaneously accessing and combining data therefrom. 4,670,839, 6-2-87, Cl. 364-200.000.

Pilat, John F.: *See*—
Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence H.; Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., 4,656,579, Cl. 364-200.000.
Gruner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; Wallach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., 4,675,810, Cl. 364-200.000.

Pilatowicz, Edward J.: *See*—
Luerken, Adolf; Cannistra, John S.; Zimmerer, John L.; and Pilatowicz, Edward J., 4,644,606, Cl. 15-330.000.

Pilborough, Frank, to Norcros Investments Limited. Labels. 4,666,185, 5-19-87, Cl. 283-80.000.

Pilcher, James W.: *See*—
Pilcher, Walter R.; and Pilcher, James W., 4,641,458, Cl. 49-20.000.

Pilcher, Walter R.; and Pilcher, James W. Jail door operating and locking mechanism. 4,641,458, 2-10-87, Cl. 49-20.000.

lenvik, Goran S.: *See—*
Broddner, Sven M.; Bromster, Leif; Lundell, Ulf; and Pilenvik, Goran S., 4,702,242, Cl. 128-205.130.

ilet, Jean-Claude: *See—*
De Burgat, Michel; Le Traon, Andre; Pilet, Jean-Claude; and Sharaiha, Ammar, 4,683,417, Cl. 324-60.00C.

ilgram, Kurt H.; and Skiles, Richard D., to Shell Oil Company. Preparation of 2,3-dihydro-1,3,2-benzodiazaphosphole-2-oxides. 4,659,858, 4-21-87, Cl. 558-81.000.

ilgrim, J. Cole. Reversible archery target. 4,695,060, 9-22-87, Cl. 273-404.000.

ilkington, Andrew L.: *See—*
Newman, Geoffrey C. S.; Pilkington, Andrew L.; and Winch, Kenneth H., 4,710,129, Cl. 434-55.000.

ilkington Brothers P L C.: *See—*
Hall, Christopher W. G., 4,645,146, Cl. 244-129.300.
Hargreaves, Edward; and Simpson, Andrew F., 4,642,130, Cl. 65-60.100.
Harrison, Peter J.; and Castle, Derek C., 4,644,139, Cl. 219-522.000.
Jago, John J., 4,673,325, Cl. 414-103.000.
Lepp, Nicholas W.; and Phipps, David A., 4,655,001, Cl. 47-57.500.
Yoxon, Brian; and Thilwind, William, 4,680,206, Cl. 528-34.000.

Pilkington, Ian B.: *See—*
Moss, Brian F.; Brent, Richard J.; and Pilkington, Ian B., 4,678,307, Cl. 354-313.000.

Pilkington, Mervin V.; Cole, Robert W.; and Schisler, Robert C., to Goodyear Tire & Rubber Company, The. Hose construction. 4,633,912, 1-6-87, Cl. 138-132.000.

Pilkington P.E. Limited: *See—*
Freeman, Michael H., 4,637,697, Cl. 351-161.000.
Freeman, Michael H., 4,641,934, Cl. 351-159.000.
Freeman, Michael H., 4,642,112, Cl. 623-6.000.
Freeman, Michael H., 4,655,565, Cl. 351-159.000.
Gardam, Allan, 4,688,902, Cl. 350-429.000.
McQuoid, J. Allister, 4,669,811, Cl. 350-3.700.
McQuoid, James A.; and Duncan, Stuart S., 4,671,603, Cl. 350-3.700.
Palmer, John M., 4,714,307, Cl. 350-1.300.
Roberts, Michael, 4,676,581, Cl. 350-1.300.
Roberts, Michael, 4,679,891, Cl. 350-1.300.
Woodcock, Brian H.; and Duncan, Stuart S., 4,714,309, Cl. 350-3.700.

Pilkington plc: *See—*
Jones, David W.; and Elston, Malcolm, 4,703,328, Cl. 343-704.000.

Pill, Johannes: *See—*
Bar-Tana, Jacob; Witte, Ernst-Christian; Hagenbruch, Bernd; Pill, Johannes; and Stegmeier, Karlheinz, 4,711,896, Cl. 514-570.000.

Pillage, Lawrence T.; and Anderson, Arthur A., to Westinghouse Electric Corp. Elevator communication controller. 4,683,989, 8-4-87, Cl. 187-121.000.

Pillar Corporation: *See—*
Majewski, Joseph R., 4,636,640, Cl. 250-324.000.

Pillar Naco Industries (Europe) Srl: *See—*
Vicinanza, Camillo; and Del Giudice, Felice, 4,643,081, Cl. 98-114.000.

Pillar Technologies, Inc.: *See—*
Collins, Wayne, 4,684,803, Cl. 250-324.000.

Piller, Horst; and Schilling, Albert, to Carl-Zeiss-Stiftung. Incident illumination apparatus for a microscope. 4,687,304, 8-18-87, Cl. 350-526.000.

Piller, Richard G. Web lateral position control system using both coarse and fine mode control means. 4,694,181, 9-15-87, Cl. 250-548.000.

Pilling Co.: *See—*
Pelta, Samuel, 4,702,230, Cl. 128-20.000.
Richards, John R., 4,697,870, Cl. 350-96.200.

Pilhnini, Bruno. Sliding shutter door sectional wardrobe. 4,681,379, 7-21-87, Cl. 312-297.000.

Pilliod Cabinet Company, The: *See—*
Lenger, Sidney A., 4,709,641, Cl. 108-102.000.

Pillis, Joseph W.; Murphy, David A.; Spellar, Peter C.; and Nemit, Paul, Jr., to Frick Company. Variable volume ratio screw compressor with step control. 4,678,406, 7-7-87, Cl. 417-310.000.

Pillow, Ronald C.: *See—*
Brandsberg, Timothy A.; and Pillow, Ronald C., 4,636,120, Cl. 411-14.000.

Pillsbury Company, The: *See—*
Gogins, Katharina A. Z.; and Smith, David J., 4,647,462, Cl. 426-270.000.

Pillsbury, Dale G., to Amoco Corporation. Methods for the production and purification of di (nitrophenyl) ethers. 4,700,011, 10-13-87, Cl. 568-585.000.

Pilney, Andy; and Wood, Harry. Rain cover for golf bag. 4,699,164, 10-13-87, Cl. 135-16.000.

Pilot Ink Co., Ltd.: *See—*
Inaba, Takao, 4,671,692, Cl. 401-199.000.
Kawaguchi, Keizo; and Ando, Takafusa, 4,664,711, Cl. 106-23.000.
Shibahashi, Yutaka; Nakasuji, Norikazu; Kataoka, Takashi; Inagaki, Hiroshi; Kito, Tutomu; Ozaki, Masaharu; Matunami, Nobuaki; Ishimura, Naoya; and Fujita, Katuyuki, 4,681,791, Cl. 428-96.000.

Pilot Man-Hitsu Kabushiki Kaisha: *See—*
Miyajima, Tamotsu; Tanaka, Noriatsu; and Saito, Nobuto, 4,687,791, Cl. 523-161.000.

Pilot Man-Nen-Hitsu Kabushiki Kaisha: *See—*
Murata, Yasuzo; and Sato, Hiroshi, 4,643,684, Cl. 434-409.000.
Murata, Yasuzo; Yokoyama, Takeo; Wada, Hiroyuki; and Sakurai, Masaaki, 4,707,593, Cl. 235-487.000.
Narushima, Kunio; and Shiobara, Toshikazu, 4,669,906, Cl. 401-209.000.
Shimizu, Takanori; and Ikeda, Masahiko, 4,646,107, Cl. 346-74.200.
Watanabe, Hiroshi; Shimamura, Isao; Abe, Masao; and Mizusawa, Masashi, 4,659,439, Cl. 204-37.600.

Pilpel, Edward D.: *See—*
Meatto, Franklin D.; and Pilpel, Edward D., 4,639,009, Cl. 280-602.000.
Meatto, Franklin D.; and Pilpel, Edward D., 4,679,814, Cl. 280-610.000.
Meatto, Franklin D.; and Pilpel, Edward D., 4,688,821, Cl. 280-609.000.
Meatto, Franklin D.; and Pilpel, Edward D., 4,700,967, Cl. 280-609.000.

Pilsak, Manfred: *See—*
Block, Werner; Pabst, Wolfgang; and Pilsak, Manfred, 4,686,419, Cl. 313-641.000.

Pilson, William: *See—*
Fryer, George E.; Pilson, William; Stephens, William J.; and Chandler, Charles H., 4,634,138, Cl. 280-278.000.

Pilz, Georg; Buerger, Gert; Barl, Manfred; and Thiel, Gerhard, to BASF Aktiengesellschaft. Process for the preparation of salts of a dicarboxylic acid and a diamine. 4,713,201, 12-15-87, Cl. 260-501.170.

Pilz, Georg; Buerger, Gert; Barl, Manfred; and Thiel, Gerhard, to BASF Aktiengesellschaft. Salt of oxaalkylenediamine with dicarboxylic acid, containing hydrazine, preparation, and nylon prepared therefrom. 4,713,437, 12-15-87, Cl. 528-336.000.

Pimbley, Joseph M.; Gildenblat, Gennady; Wei, Ching-Yeu; and Shappir, Joseph, to General Electric Company. Hybrid extended drain concept for reduced hot electron effect. 4,691,433, 9-8-87, Cl. 437-44.000.

Pimbley, Joseph M.: *See—*
Lillquist, Robert D.; Pimbley, Joseph M.; and Vogelsong, Thomas L., 4,679,068, Cl. 358-44.000.
Wei, Ching-Yeu; and Pimbley, Joseph M., 4,680,603, Cl. 357-23.300.

Pimental, Ken: *See—*
La Komski, Greg; and Pimental, Ken, 4,668,041, Cl. 339-147.00R.

Pimintel, Antone, to Xerox Corporation. Anti-backlash tractor assembly. 4,662,767, 5-5-87, Cl. 400-616.200.

Pimlott, John R.; Beaver, Richard N.; Dang, Hiep D.; and Morris, Gregory J. E., to Dow Chemical Company, The. Structural frame for an electrochemical cell. 4,668,371, 5-26-87, Cl. 204-253.000.

Pimlott, John R.; Beaver, Richard N.; Dang, Hiep D.; and Morris, Gregory J. E., to Dow Chemical Company, The. Structural frame for an electrochemical cell. 4,670,123, 6-2-87, Cl. 204-279.000.

Pimlott, John R., to Dow Chemical Company, The. Bipolar electrolytic cell. 4,713,162, 12-15-87, Cl. 204-254.000.

Pimlott, John R.: *See—*
Beaver, Richard N.; Morris, Gregory J. E.; Dang, Hiep D.; and Pimlott, John R., 4,666,579, Cl. 204-253.000.
Beaver, Richard N.; Morris, Gregory J. E.; Dang, Hiep D.; and Pimlott, John R., 4,666,580, Cl. 204-254.000.
Beaver, Richard N.; Morris, Gregory J.; Pimlott, John R.; and Dang, Hiep D., 4,690,748, Cl. 204-279.000.
Dang, Hiep D.; Beaver, Richard N.; and Pimlott, John R., 4,654,136, Cl. 204-283.000.
Morris, Gregory J. E.; Grosshandler, Sandor; Beaver, Richard N.; Pimlott, John R.; and Dang, Hiep D., 4,673,479, Cl. 204-279.000.

Pin, Bernard; Delbosse, Andre; and Dubreucq, Ivan, to Gerin, Merlin. Multipole breaking device with remote control. 4,714,976, 12-22-87, Cl. 361-114.000.

Pin, Giorgio: *See—*
Federici, Franco; Pin, Giorgio; and Cozzi, Ennio, 4,704,420, Cl. 524-233.000.

Pincham, Wilma I. Halo shirt. 4,644,590, 2-24-87, Cl. 2-115.000.

Pincherri, Anthony J. Functional plug plate covers for electrical outlets. 4,676,570, 6-30-87, Cl. 439-148.000.

Pinchon, Gerard: *See—*
Fontaine, Christian; Vaumoron, Pascal; Pinchon, Gerard; and Brachais, Christian, 4,670,961, Cl. 29-429.000.

Pinchuk, Leonard, to Cordis Corporation. Cardiovascular graft and method of forming same. 4,657,544, 4-14-87, Cl. 623-1.000.

Pinck, Peter: *See—*
Heitmann, Uwe; Pinck, Peter; and Maiwald, Berthold, 4,644,176, Cl. 250-572.000.
Heitmann, Uwe; Pinck, Peter; Kohler, Elke; Maiwald, Berthold; and Marsau, Uwe, 4,645,921, Cl. 250-223.00R.

Pinckney, Linda R., to Corning Glass Works. Transparent glass-ceramics containing gahnite. 4,687,750, 8-18-87, Cl. 501-10.000.

Pinckney Molded Plastics, Inc.: *See—*
Kreeger, Elsmer W., 4,635,562, Cl. 108-55.100.
Kreeger, Elsmer W., 4,687,100, Cl. 206-403.000.
Kreeger, Elsmer W., 4,698,875, Cl. 16-30.000.
Kreeger, Elsmer W., 4,711,002, Cl. 24-30.50P.

Pinckney, Warren J.: *See—*
Beumer, Karl W.; Gaston, Charles A.; Locke, Charles H.; Mack, Alfred; O'Neill, Brian C.; Pinckney, Warren J.; and Wilson, Alan D., 4,642,438, Cl. 219-121.00L.

Pindar Development Corporation: *See—*
Basler, Bradley S.; and Harrison, Douglas H., 4,660,132, Cl. 362-294.000.

Pinder, Thomas E.: *See*—
Gross, Anthony E.; Christie, Richard D.; and Pinder, Thomas E., 4,710,285, Cl. 209-166.000.

Pindera, Jerzy T. Device for birefringence measurements using three selected sheets of scattered light (isodyne selector, isodyne collector, isodyne collimator). 4,679,933, 7-14-87, Cl. 356-35.000.

Pindera, Jerzy T. Apparatus for determination of elastic isodynes and of the general state of birefringence whole field-wise using the device for birefringence measurements in a scanning mode (isodyne polariscope). 4,703,918, 11-3-87, Cl. 356-35.000.

Pine, James J., to Action Industries, Inc. Resiliently releasing ottoman for motion chair. 4,674,794, 6-23-87, Cl. 297-85.000.

Pine, James J., to Action Industries, Inc. Multidirectionally resiliently releasing ottoman for motion chair. 4,681,365, 7-21-87 Cl. 297-85.000.

Pine, Keith A.: *See*—
Teske, John E.; Beckman, Curt D.; Warner, Thomas C.; and Pine, Keith A., 4,676,431, Cl. 232-43.100.

Pine, Lloyd A., to Exxon Research and Engineering Company. Rare earth stabilized aluminum deficient zeolite. 4,701,431, 10-20-87, Cl. 502-73.000.

Pineau, Didier, to Societe Nationale Industrielle et Aerospatiale. Method for heating the reducing gas of a blast furnace by means of a plasma generator. 4,670,048, 6-2-87, Cl. 75-10.190.

Pineau, Didier, to Societe Nationale Industrielle et Aerospatiale. Multilayer refractory structure and a wall provided with such a refractory structure. 4,698,255, 10-6-87, Cl. 428-215.000.

Pinel, Joseph: *See*—
Val, Christian; Pinel, Joseph; and Gibod, Yves B., 4,639,826, Cl. 361-272.000.

Pinel, Max: *See*—
Marcusse, Alain; and Pinel, Max, 4,712,337, Cl. 52-90.000.

Pines, Alexander: *See*—
Weitekamp, Daniel P.; Bielecki, Anthony; Zax, David B.; Zilm, Kurt W.; and Pines, Alexander, 4,710,714, Cl. 324-307.000.

Ping, Huang S., to Haustle Products Inc. Folding umbrella frame. 4,658,844, 4-21-87, Cl. 135-25.00A.

Pingel, Matthias A. Sign holders. 4,658,527, 4-21-87, Cl. 40-606.000.

Pini, Maria. Apparatus for loading and unloading palletized articles. 4,643,628, 2-17-87, Cl. 414-279.000.

Pink, Hans, to Siemens Aktiengesellschaft. Aerosol production in inductively coupled plasma emission spectroscopy. 4,673,656, 6-16-87, Cl. 436-173.000.

Pink, John J., to Amana Refrigeration, Inc. Vertically-adjustable meat keeper for refrigerator. 4,671,078, 6-9-87, Cl. 62-408.000.

Pink, John J., to Amana Refrigeration, Inc. Refrigerator shelf for dispensing cans or thawing food. 4,678,247, 7-7-87, Cl. 312-116.000.

Pinkam, Ray: *See*—
Guttag, Karl M.; Pinkam, Ray; and Novak, Mark F., 4,660,156, Cl. 364-521.000.

Pinkel, Edward B.: *See*—
Moore, James G.; Obey, James H.; and Pinkel, Edward B., 4,640,740, Cl. 159-13.100.

Pinkerton, Cletis P.: *See*—
Den Besten, Leroy E.; and Pinkerton, Cletis P., 4,684,176, Cl. 299-91.000.

Pinkerton, Michael B.; and Moskowitz, David. Safety covers for electric outlets. 4,691,974, 9-8-87, Cl. 439-147.000.

Pinkham, Raymond, to Texas Instruments Incorporated. Separately addressable memory arrays in a multiple array semiconductor chip. 4,636,986, 1-13-87, Cl. 365-195.000.

Pinkham, Raymond; Valente, Fredrick A.; Guttag, Karl M.; and Vanaken, Jerry R., to Texas Instruments Incorporated. Video serial accessed memory with midline load. 4,648,077, 3-3-87, Cl. 365-240.000.

Pinkham, Raymond; and Valente, Fredrick A., to Texas Instruments Incorporated. Serially accessed semiconductor memory with tapped shift register. 4,667,313, 5-19-87, Cl. 365-240.000.

Pinknam, Raymond, to Texas Instruments Incorporated. Serial accessed semiconductor memory with reconfigureable shift registers. 4,683,555, 7-28-87, Cl. 365-215.000.

Pinkham, Raymond: *See*—
Heilveil, Andrew; VanAken, Jerry R.; Guttag, Karl M.; Redwine, Donald J.; Pinkham, Raymond; and Novak, Mark F., 4,639,890, Cl. 364-900.000.
Redwine, Donald J.; and Pinkham, Raymond, 4,689,741, Cl. 364-200.000.
Thaden, Robert C.; Bond, Jeffrey C.; Moravec, John V.; Guttag, Karl M.; Pinkham, Raymond; and Novak, Mark, 4,656,596, Cl. 364-521.000.

Pinkney, James, to South Park Sales & Mfg., Inc. Loose leaf binder lift lock. 4,696,595, 9-29-87, Cl. 402-54.000.

Pinkowski, Thomas R.: *See*—
Kimmel, Edward R.; Shaffer, Mary E.; Pinkowski, Thomas R.; and Harris, Geoffrey L., 4,664,899, Cl. 423-440.000.

Pinkston, Steve R.: *See*—
Phlipot, James R.; Pinkston, Steve R.; and Nurre, Harry, 4,643,215, Cl. 137-15.000.
Phlipot, James R.; Pinkston, Steve R.; and Seghetti, Leland L., 4,655,246, Cl. 137-505.110.

Pinnavaia, Thomas J.; and Tzou, Ming S., to Michigan State University. Pillared and delaminated clays containing iron. 4,665,044, 5-12-87, Cl. 502-84.000.

Pinnavaia, Thomas J.; Tzou, Ming S.; and Landau, Steven D., to Michigan State University. Pillared and delaminated clays containing chromium. 4,665,045, 5-12-87, Cl. 502-84.000.

Pinnekamp, Friedrich: *See*—
Munzinger, Karl; and Pinnekamp, Friedrich, 4,700,270, Cl. 361-341.000.

Pinnell, Martin C.: *See*—
Minshull, John F.; and Pinnell, Martin C., 4,642,790, Cl. 364-900.000.

Pinnell, Sheldon R., to Biospecifics, NV. Method for the prevention and treatment of scars with enzymes. 4,645,668, 2-24-87, Cl. 424-94.000.

Pinneo, George G.: *See*—
Woolsey, Charles W.; Eskandry, Ezra D.; and Pinneo, George G., 4,642,640, Cl. 342-42.000.

Pinney, Robert V., Jr.: *See*—
Habitzreiter, Richard K.; Pinney, Robert V., Jr.; and Thomas, Tony C., 4,637,059, Cl. 382-54.000.

Pinnow, Douglas A., to Universal Photonics, Inc. Apparatus and method for a universal electronic locking system. 4,665,397, 5-12-87, Cl. 340-825.560.

Pino, Louis, to EDO Corporation. Non-fouling actuating mechanism. 4,635,443, 1-13-87, Cl. 60-628.000.

Pinol, Juan C.: *See*—
Ramallo, Tomas A.; Puchal, Francisco M.; Pinol, Juan C.; and Julia, Enric, 4,665,099, Cl. 514-763.000.

Pinovsky, Mikhail I.: *See*—
Golubenko, Alexandr L.; Turchin, Viktor P.; Konyaev, Alexei N.; Sukhov, Igor N.; Kaljuzhny, Nikolai N.; Filonov, Arkady S.; Koropets, Alexei P.; Pinovsky, Mikhail I.; Tkachenko, Viktor P.; and Kramar, Nikolai M., 4,635,990, Cl. 295-11.000.

Pins, Heinrich: *See*—
Bauer, Kurt H.; and Pins, Heinrich, 4,695,450, Cl. 424-22.000.

Pinsak, George F.; and Morton, Henry H., Jr. Apparatus for deterring thumbsucking. 4,692,748, 9-8-87, Cl. 340-573.000.

Pinschmidt, Robert K., Jr.; Dixon, Dale D.; Burgoyne, William F., Jr.; and Goldstein, Joel E., to Air Products and Chemicals, Inc. Polymers of self- and hydroxyl reactive formaldehyde-free cyclic hemiamidal and hemiamide ketal crosslinking monomers. 4,663,410, 5-5-87, Cl. 526-263.000.

Pinschmidt, Robert K., Jr.; Dixon, Dale D.; and Burgoyne, William F., Jr., to Air Products and Chemicals, Inc. Self- and hydroxyl reactive formaldehyde-free cyclic hemiamidal and hemiamide ketal crosslinking monomers. 4,691,026, 9-1-87, Cl. 548-531.000.

Pinsky, Naum; and Alkaitis, Saulius A., to Ensci, Inc. Battery element and battery incorporating doped tin oxide coated substrate. 4,713,306, 12-15-87, Cl. 429-218.000.

Pinsky, Naum: *See*—
Fitzgerald, Maurice E.; Braunstein, David M.; Alkaitis, Saulius A.; and Pinsky, Naum, 4,708,918, Cl. 429-210.000.

Pinson, George T.; Reinhold, Ralph R.; and Finley, Roland L., to Boeing Company, The. Optical scanning device for a missile and the like. 4,656,349, 4-7-87, Cl. 250-203.00R.

Pinson, George T., to Boeing Company, The. High pressure power source for a missile and the like. 4,658,588, 4-21-87, Cl. 60-637.000.

Pinson, George T., to Boeing Company, The. Missile control surface actuator system. 4,659,036, 4-21-87, Cl. 244-3.220.

Pinson, George T., to Boeing Company, The. Pressure gas supply for a missile and the like. 4,684,080, 8-4-87, Cl. 244-3.220.

Pinson, George T., to Boeing Company, The. On-board flight control panel system. 4,699,333, 10-13-87, Cl. 244-3.210.

Pinson, George T., to Boeing Company, The. Pneumatic missile seeker head. 4,709,876, 12-1-87, Cl. 244-3.160.

Pinter, Janos: *See*—
Harsanyi, Jozsef; Kiss, Zoltan; Kukonya, Ferenc; Pinter, Janos; Suri, Alajos; and Toth, Andras, 4,657,668, Cl. 209-158.000.

Pinto, Adolf P. Maximized thermal efficiency crank driven hot gas engine. 4,676,067, 6-30-87, Cl. 60-525.000.

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Pinto, Shlomo. Method and device for insulation of the ground. 4,666,337, 5-19-87, Cl. 405-176.000.
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Pioneer/Eclipse Corp.: *See*—
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Aoyagi, Yoshiro; Kimura, Toshiyuki; Ninuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Keiichi; Haeno, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77.100.
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Banno, Tutomu; and Kosaka, Minoru, 4,675,749, Cl. 358-342.000.
Chikuma, Kiyofumi, 4,671,623, Cl. 350-432.000.
Daino, Nobuo, 4,637,047, Cl. 381-58.000.
Hamanaka, Kenjiro; Nozu, Shinsaku; Sato, Katsuharu; and Tanaka, Hozumi, 4,663,750, Cl. 369-45.000.
Hasegawa, Tsunao, 4,639,681, Cl. 328-164.000.
Hasegawa, Yonosuke, 4,641,363, Cl. 455-4.000.
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Hasegawa, Yonosuke, 4,713,840, Cl. 455-2.000.
Hatano, Hideki, 4,670,865, Cl. 369-13.000.
Hayashi, Ryoji; and Nomura, Satoru, 4,683,502, Cl. 358-342.000.
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Hirakawa, Toshihito, 4,691,356, Cl. 381-4.000.
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Honda, Yuji; and Okajima, Takahiro, 4,641,298, Cl. 369-77.100.
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Iiaki, Tadashi; Gomi, Hidehito; and Komatsubara, Masahiko, 4,675,907, Cl. 381-152.000.
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Isaki, Satoshi, 4,644,396, Cl. 380-6.000.
Itaji, Takumi, 4,706,134, Cl. 358-343.000.
Itamaru, Hitoshi, 4,634,853, Cl. 250-201.000.
Itamaru, Hitoshi, 4,680,744, Cl. 369-44.000.
Ito, Masao, 4,667,225, Cl. 358-36.000.
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Ito, Itsuo; Kamimura, Tetsuro; Takemasa, Kaoru; and Onishi, Michi, 4,672,477, Cl. 360-96.200.
Ito, Shigeru, 4,683,449, Cl. 333-14.000.
Itomi, Toshiaki, 4,695,995, Cl. 369-75.200.
Itotsubara, Masahiro; Kamimura, Tetsuro; Inanaga, Takugi; and Takahashi, Akira, 4,695,011, Cl. 242-199.000.
Ito, Yoshikiyo, 4,703,466, Cl. 369-45.000.
Iwa, Minoru; and Banno, Tutomu, 4,698,695, Cl. 358-338.000.
Iwa, Minoru; and Banno, Tutomu, 4,703,367, Cl. 358-339.000.
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Iwai, Yoshiro, 4,637,049, Cl. 381-86.000.
Iwai, Yoshiro; Odaka, Makoto; Sato, Takeshi; Sasaki, Yoshio; and Tokumo, Akio, 4,644,292, Cl. 330-279.000.
Kunugi, Yoshiro; Tokumo, Akio; Yoshimi, Toshikazu; Kato, Shinjiro; Sasaki, Yoshio; Odaka, Makoto; and Sato, Takeshi, 4,648,117, Cl. 381-86.000.
Kunugi, Yoshiro; Suzuki, Shinichi; and Kato, Masayuki, 4,688,258, Cl. 381-103.000.
Kurihara, Toshihiko, 4,679,904, Cl. 350-255.000.
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Maeda, Takanori; and Hamanaka, Kenjiro, 4,660,191, Cl. 369-46.000.
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Masaki, Keiji, 4,675,748, Cl. 358-337.000.
Matsui, Fumio; Yanagisawa, Shuichi; Kakuta, Yoshiyuki; and Yoshizawa, Atsushi, 4,639,745, Cl. 346-135.100.
Matsui, Fumio; and Sugano, Manabu, 4,663,267, Cl. 430-270.000.
Matsui, Fumio; and Murata, Yasushi, 4,683,562, Cl. 369-284.000.
Matsumura, Sumitaka, 4,656,432, Cl. 329-107.000.
Moriyama, Yoshiaki; and Imoto, Sumio, 4,654,853, Cl. 371-41.000.
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Moriyama, Yoshiaki, 4,696,007, Cl. 371-37.000.
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Nagaya, Hideshi; and Saito, Yoshio, 4,704,651, Cl. 360-137.000.
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Naito, Ryuichi; Kosaka, Minoru; and Kawamura, Katsumi, 4,637,005, Cl. 369-45.000.
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Nakayama, Kazuaki, 4,700,389, Cl. 381-1.000.
Nanba, Keiichiro; Tokui, Satoru; and Onuma, Tatsuro, 4,680,634, Cl. 358-181.000.
Nozaki, Takashi; and Hashimoto, Takashi, 4,710,971, Cl. 455-179.000.
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Nozu, Shinsaku; Sato, Katsuharu; Tanaka, Hozumi; and Hamanaka, Kenjiro, 4,658,391, Cl. 369-45.000.
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Okano, Takashi; and Akiyama, Tetsuo, 4,677,602, Cl. 369-32.000.
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Shenton, David N., 4,637,021, Cl. 371-37.000.
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Sueyoshi, Susumu; Tokui, Satoru; and Nanba, Keiichiro, 4,703,450, Cl. 364-900.000.
Sugai, Yoshiro; and Kimura, Hiroyuki, 4,680,793, Cl. 381-13.000.
Sugai, Yoshiro; and Kimura, Hiroyuki, 4,703,501, Cl. 381-10.000.
Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Shimoda, Kouji; Kimoto, Toshiyuki; and Kouno, Tomomitsu, 4,695,996, Cl. 369-77.100.
Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Bessho, Akira; Shimoda, Kouji; Okuda, Kenji; Kama, Haruo; and Kobayashi, Kazuo, 4,700,338, Cl. 369-77.100.
Suzuki, Shinichi; Tokumo, Akio; Kunugi, Yoshiro; and Kato, Masayuki, 4,694,498, Cl. 381-103.000.
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Takahashi, Yoshio, 4,641,345, Cl. 381-86.000.
Tokui, Satoru; Sueyoshi, Susumu; and Nanba, Keiichiro, 4,635,222, Cl. 364-900.000.
Tokui, Satoru, 4,670,774, Cl. 358-19.000.
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Tsukai, Yoshiyuki, 4,636,628, Cl. 250-201.000.
Uemura, Hiroki, 4,651,204, Cl. 380-7.000.
Wada, Shigekazu; and Okuda, Kenji, 4,672,489, Cl. 360-104.000.
Yamada, Fumiya; Matsuki, Seiichiro; Kawamura, Masahiko; and Kawamoto, Masashi, 4,710,835, Cl. 360-106.000.
Yokogawa, Fumihiko, 4,637,003, Cl. 369-32.000.
Yokogawa, Tomohisa; Kanda, Nobuo; and Iwasaki, Hideki, 4,656,364, Cl. 307-112.000.
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Yokota, Hiroshi, 4,679,100, Cl. 360-15.000.
Yoshida, Masayuki, 4,639,660, Cl. 323-266.000.
Yoshio, Junichi; Hirano, Toshio; Yasukawa, Kenichiro; and Yoshida, Masayuki, 4,642,812, Cl. 381-1.000.
Yoshio, Junichi, 4,698,795, Cl. 369-44.000.
Yoshio, Junichi, 4,707,817, Cl. 369-46.000.
Pioneer Magnetics, Inc.: *See*—
Mandelcorn, Josh, 4,672,517, Cl. 363-20.000.
Swoboda, Jack W., 4,656,570, Cl. 363-26.000.
Swoboda, Jack W., 4,672,228, Cl. 307-66.000.
Wilkinson, Bruce L., 4,644,252, Cl. 323-273.000.
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Pioneer Research, Inc.: *See*—
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Piorr, Robert; Panthel, Guenter; Schmid, Karl H.; Colignon, Dietmar; Rommerskirchen, Hans J.; Schmidt, Wolfgang; and Ritterbex, Horst, to Henkel Kommanditgesellschaft auf Aktien. Control of disalt in α-sulfofatty acid ester surfactants. 4,695,409, 9-22-87, Cl. 260-400.000.
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Roger, Loic; Maubois, Jean-Louis; Brule, Gerard; and Piot, Michel, 4,711,953, Cl. 530-366.000.
Piotraczk, Stanley J.: *See—*
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Piotrowski, Leo R., to Harris Corporation. Fabrication of vertical NPN and PNP bipolar transistors in monolithic substrate. 4,665,425, 5-12-87, Cl. 357-49.000.
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Sprung, Douglas L., 4,651,915, Cl. 228-7.000.
Piper, Dale R.: *See—*
Boehmer, Dennis A.; and Piper, Dale R., 4,702,386, Cl. 220-86.00R.
Piper, Douglas E.; and Black, Michael D., to Woven Electronics Corporation. Bus bar bridged pc board for transitional termination of multiple cables and method. 4,682,828, 7-28-87, Cl. 439-92.000.
Piper FM Limited: *See—*
Gayler, Robert J., 4,677,958, Cl. 123-585.000.
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Pipes, George R., to Eaton-Kenway, Inc. Automated guided vehicle. 4,657,463, 4-14-87, Cl. 414-495.000.
Pipkin, Noel J. Thermally stable diamond compacts. 4,670,025, 6-2-87, Cl. 51-295.000.
Pipkorn, Howard W. Boat hull with center V-hull and sponsons. 4,672,905, 6-16-87, Cl. 114-56.000.
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Pippenger, Nicholas J.: *See—*
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Pippert, Aaron J., to Utex Industries, Inc. Fishing lure. 4,672,768, 6-16-87, Cl. 43-42.090.
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Pirali, Giorgio; Grandi, Maria; Pagani, Hermes; Paternoster, Manuela; Tamoni, Giorgio; and Cassani, Giovanni, to Gruppo Lepetit S.p.A. Antimicrobial and antitumor antibiotic M 9026 and its pure individual factors 1, 2, and 3 and microbial process for production thereof 4,692,333, 9-8-87, Cl. 424-122.000.
Piramoon, Alireza: *See—*
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Pizzorno, Augusto, 4,682,940, Cl. 425-34.00R.
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Pirelli S/A Companhia Industrial Brasileira: *See—*
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Pirelli Trasmissioni Industriali S.p.A.: *See—*
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Pirello, Robert J. Process for preparing a tofu cheese and product, 4,701,332, 10-20-87, Cl. 426-302.000.
Piret, Willy H., to Owens-Corning Fiberglas Corporation. Glass fiber reinforced thermoplastics. 4,659,752, 4-21-87, Cl. 523-206.000.
Pirih, Anthony M.: *See—*
Kwitkowski, Peter A.; Nanni, Peter; Missele, Carl; O'Shea, Norman E.; and Pirih, Anthony M., 4,703,289, Cl. 333-1.100.
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Pirk, Hans: *See—*
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Pirl, William E.: *See—*
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Senger, Robert D.; Pirl, William E.; and Roth, Charles H., Jr., 4,713,952, Cl. 72-53.000.
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Wirstrom, Peter; and Cork, William H., 4,691,355, Cl. 380-23.000.
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Piro, Ronald A., to International Business Machines Corporation. Substrate bias generators. 4,701,637, 10-20-87, Cl. 307-297.000.
Pirone, Vincent A., to RCA Corporation. Electrical discharge machine cooling fluid containment apparatus. 4,638,139, 1-20-87, Cl. 219-69.00W.
Pirosko, Thomas J.: *See—*
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Pittet, Alan O.; Muralidhara, Ranya; and Vock, Manfred H., to International Flavors & Fragrances Inc. Flavoring with methylthioalkanoic acid esters of citronellol. 4,654,218, 3-31-87, Cl. 426-535.000.

Pittet, Alan O.; Muralidhara, Ranya; Miller, Kevin P.; Luccarelli, Domenick, Jr.; and Vock, Manfred H., to International Flavors & Fragrances Inc. Dialkylthioalkenes, dialkylthioalkylcycloalkenes and monoalkylthioalkenylcycloalkenes and organoleptic uses thereof. 4,658,067, 4-14-87, Cl. 568-38.000.

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Pittet, Alan O.; Muralidhara, Ranya; and Hagedorn, Myrna L., to International Flavors & Fragrances Inc. Process for preparing 4,4A,5,6-tetrahydro-7-methyl-2-(3H)-naphthalenone, intermediates used in said process and novel crystalline form of same. 4,680,142, 7-14-87, Cl. 252-522.00R.

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Pittinger, Charles B., Jr. Bump-feed filament vegetation trimmer means and method. 4,633,588, 1-6-87, Cl. 30-347.000.

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Pitts, Geoffrey, to Penny & Giles Potentiometers Limited. Inclinometers. 4,667,413, 5-26-87, Cl. 33-344.000.

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lle, Walter V.: *See—*
Gelfand, Peter C.; Piulle, Walter V.; and Rettenmaier, Louis F., 4,692,174, Cl. 55-129.000.
ma, Adolfo, to VA.NI.M s.r.l. Process for the separation of metal compounds by reduction. 4,637,920, 1-20-87, Cl. 423-67.000.
onka, Josef K., to Tweedy of Burnley Limited. Apparatus for slitting and folding dough pieces. 4,634,363, 1-6-87, Cl. 425-306.000.
onka, Joseph K., to Tweedy of Burnley Limited. Dough moulding and apparatus for dough moulding with air cushion chute. 4,666,726, 5-19-87, Cl. 426-502.000.
ot Manufacturing Company: *See—*
Ernst, M. Eric; and Jewett, Walter L., 4,682,719, Cl. 224-310.000.
ovarsky, Nikolai B.: *See—*
Paton, Boris E.; Medovar, Boris I.; Biletsky, Semen M.; Saenko, Vladimir Y.; Us, Vasiliy I.; Krendeleva, Alisa I.; Barvinko, Jury P.; Medovar, Lev B.; Pivovarsky, Nikolai B.; and Astafiev, Nikolai A., 4,71[illegible],387, Cl. 228-143.000.
winski, John J.; Suh, John T.; Menard, Paul; Jones, Howard; Neiss, Edward S.; and Regan, John R., to USV Pharmaceutical Corporation. Compounds for treating hypertension. 4,666,906, 5-19-87, Cl. 514-222.000.
winski, John J.: *See—*
Neiss, Edward S.; Suh, John T.; and Piwinski, John J., 4,661,515, Cl. 514-471.000.
Suh, John T.; Piwinski, John J.; Jones, Howard; and Neiss, Edward S., 4,696,939, Cl. 514-361.000.
wonka, Peter: *See—*
Kalt, Glenda; Straub, Dale K.; and Piwonka, Peter, 4,702,736, Cl. 604-180.000.
wonka, Thomas S.: *See—*
Cybulsky, Michael; Piwonka, Thomas S.; and Brittain, Virgil R., 4,683,936, Cl. 164-122.100.
nton, Dennis N. Artifical fishing lure and method of use. 4,653,212, 3-31-87, Cl. 43-4.500.
zza Hut, Inc.: *See—*
Brewer, David E., 4,643,167, Cl. 126-299.00R.
zzigoni, Giuseppe; and Parrini, Paolo, to Larac S.p.A. Composition for the desulphatizing cleaning of carbonatic stone surfaces. 4,686,064, 8-11-87, Cl. 252-153.000.
zzino, Joanne L. Dual dose syringe. 4,702,737, 10-27-87, Cl. 604-191.000.
zzo, Joseph A.: *See—*
Schmidt, Richard; and Pizzo, Joseph A., 4,696,145, Cl. 53-436.000.
zzo, Joseph A., Sr.: *See—*
Schmidt, Richard; and Pizzo, Joseph A., Sr., 4,641,485, Cl. 53-429.000.
zzoferrato, Vincenzo: *See—*
Ciacci, Franco; Pizzoferrato, Vincenzo; and Tessera, Giancarlo, 4,665,483, Cl. 364-200.000.
zzorno, Augusto, to Pirelli Coordinamento Pneumatici S.p.A. Double-molded vulcanizing press. 4,682,940, 7-28-87, Cl. 425-34.00R.
D Associates Inc.: *See—*
Dillard, John A. B., III, 4,708,791, Cl. 210-96.200.
eczka, Etelka: *See—*
Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.
H, Inc.: *See—*
Hill, Charles E.; Hill, Edwin L.; and Hill, Ernest W., 4,680,879, Cl. 37-67.000.
IL Papier-und Kunststoff-Werke Linnich GmbH: *See—*
Stohr, Benno, 4,712,690, Cl. 206-628.000.
IL Verpackungssysteme GmbH: *See—*
Farber, Jurgen, 4,666,044, Cl. 206-606.000.
IK Verpackungssysteme GmbH & Co.: *See—*
Zoppa, Dieter, 4,689,938, Cl. 53-582.000.
natsman, Jacob: *See—*
Damman, Cornelis C.; and Plaatsman, Jacob, 4,673,016, Cl. 157-1.240.
ace, John, and Bregnard, Andre, to Battelle Memorial Institute. Apparatus for separating a mixture of components by thin layer electrophoresis. 4,715,943, 12-29-87, Cl. 204-299.00R.
ace, John F.; and Bregnard, Andre, to Battelle Memorial Institute. Process for moulding gels usable for thin layers electrophoresis and use thereof. 4,652,354, 3-24-87, Cl. 204-182.800.
Place, John F.: *See—*
Ringrose, Anthony; Sutherland, Ranald M.; Dahne, Claus; and Place, John F., 4,668,636, Cl. 436-164.000.
Place, John M.: *See—*
Ackman, Terry E.; and Place, John M., 4,695,378, Cl. 210-198.100.
Place, Pierre; Anding, Claude; and Debourge, Jean-Claude, to Rhone-Poulenc Agrochimie. (Arylthio)-pyridylalkanols and their use as fungicides. 4,677,128, 6-30-87, Cl. 514-277.000.
Placek, Ronald J.: *See—*
Knorowski, Victor J.; Hean, Charles R.; and Placek, Ronald J., 4,682,934, Cl. 416-198.00A.
Plachenka, Juergen: *See—*
Brockmann, Rolf; Jeromin, Lutz; Johannisbauer, Wilhelm; Meyer, Helmut; Michel, Otto; and Plachenka, Juergen, 4,655,879, Cl. 203-37.000.
Placid Industries, Inc.: *See—*
Pedu, Jeffrey C., 4,681,197, Cl. 192-21.500.
Placke, Dale L.; and Weeks, Donald L., to NCR Corporation. Document guide mechanism. 4,640,505, 2-3-87, Cl. 271-209.000.
Placke, Dale L.: *See—*
Granzow, Robert H.; Placke, Dale L.; and Howett, Harry L., 4,655,391, Cl. 232-43.100.
Howett, Harry L.; Granzow, Robert H.; and Placke, Dale L., 4,659,008, Cl. 232-43.300.
Plackner, Kurt; Schamberger, Rudolf; and Kirchpfening, Max, deceased (by Kirchpfening, Martha M., Stefan Kirchpfening, Klaus Kirchpfening, heirs), to Siemens Aktiengesellschaft. Rotating-field machine with bell-shaped rotor hub and rotatable stator and control element. 4,645,963, 2-24-87, Cl. 310-266.000.
Placko, Martin: *See—*
O'Brien, Errol C.; Placko, Martin; and Breneman, Wayne, 4,646,769, Cl. 134-199.000.
Plagens, Leonard D.: *See—*
O'Neil, Junior; and Plagens, Leonard D., 4,648,727, Cl. 334-49.000.
Plagens, Mark R., to Honeywell Inc. MESFET logic using integral diode level shifting. 4,698,524, 10-6-87, Cl. 307-450.000.
Plagge, Joseph A. M., to U.S. Philips Corporation. Power supply circuit. 4,684,871, 8-4-87, Cl. 320-21.000.
Plagge, Joseph A. M.: *See—*
van der Akker, Jouw; and Plagge, Joseph A. M., 4,652,984, Cl. 363-18.000.
Plahmer, Thomas G., to Rexnord Inc. Machine component diagnostic system. 4,658,038, 4-21-87, Cl. 73-7.000.
Plainer, Hermann; Sproessler, Bruno; and Uhlig, Helmut, to Rohm GmbH. Method for making beer. 4,684,525, 8-4-87, Cl. 426-16.000.
Plaisance, Teddy J. Pivotal bumper attachment. 4,697,956, 10-6-87, Cl. 405-213.000.
Plaisance, Thomas H.: *See—*
Katchko, John; Plaisance, Thomas H.; and Kriz, Karel, 4,654,270, Cl. 428-447.000.
Katchko, John; Kirz, Karel; and Plaisance, Thomas H., 4,713,410, Cl. 524-500.000.
Plakos, Drew: *See—*
Goldfarb, Adolph E.; Everitt, Delmar K.; and Plakos, Drew, 4,673,370, Cl. 446-162.000.
Plambeck Eric D., to Piezo Sona-Tool Corporation. Downhole oil well vibrating system. 4,682,070, 7-21-87, Cl. 310-334.000.
Plambeck, Eric D.: *See—*
Kompanek, Harry W.; Ligman, James R.; and Plambeck, Eric D., 4,658,897, Cl. 166-249.000.
Plampin, James N.: *See—*
Maryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., 4,656,270, Cl. 544-148.000.
Maryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., 4,656,291, Cl. 548-351.000.
Maryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., 4,693,850, Cl. 260-506.000.
Plan Hold Canada Inc.: *See—*
Fletcher, William C., 4,666,047, Cl. 211-46.000.
Plana, Salvio. Envelope opener. 4,693,004, 9-15-87, Cl. 30-265.000.
Planar Systems, Inc.: *See—*
King, Christopher N.; Dolinar, Brian J.; Barrow, William A.; Flegal, Robert T.; Gulick, Paul E.; and Blacken, Laurin G., 4,691,144, Cl. 315-169.300.
Planas, Fermin P.: *See—*
Bacardit, Juan S.; and Planas, Fermin P., 4,660,459, Cl. 91-375.00R.
Planchard, David C.: *See—*
Eacobacci, Michael J.; and Planchard, David C., 4,655,046, Cl. 62-55.500.
Planck, Norman A.: *See—*
Stoner, Donald R.; Senger, Robert D.; Planck, Norman A.; and Hall, William G., 4,703,817, Cl. 180-8.100.
Planck, Peter V.: *See—*
Johannessen, Paul R.; and Planck, Peter V., 4,689,803, Cl. 375-63.000.
Planck, Werner: *See—*
Bayer, Oswald; Grehn, Martin; and Planck, Werner, 4,714,358, Cl. 384-470.000.
Planesi, Ronald D. Tobacco pipe bowl with associated honing tool. 4,648,411, 3-10-87, Cl. 131-226.000.
Planeta, Mirek. Apparatus for gauge distribution in plastic tubing. 4,676,728, 6-30-87, Cl. 425-387.100.
Planetics Engineering, Inc.: *See—*
Conroy, John L., Sr., 4,652,025, Cl. 285-114.000.
Plank, Johann; and Aignesberger, Alois, to SKW Trostberg AG. Metal compounds of acid group-containing condensation products and

co-condensation products of ketones and aldehydes. 4,666,979, 5-19-87, Cl. 525-54.210.
Plank, Johann: *See*—
Aignesberger, Alois; and Plank, Johann, 4,657,593, Cl. 106-90.000.
Planke, Tore, to A/S Tomra Systems. Method and an apparatus for the identification of metal cans. 4,647,470, 2-10-87, Cl. 250-566.000.
Plannerer, Joseph. Carburetor for IC engines and an idling insert therefor. 4,708,828, 11-24-87, Cl. 261-41.500.
Plannja AB: *See*—
Kero, Ernst; and Gustafsson, Erik, 4,697,529, Cl. 108-511.000.
Plant Genetics, Inc.: *See*—
Nelsen, Charles E.; and Mannion, Catharine, 4,701,326, Cl. 424-408.000.
Redenbaugh, M. Keith; and Reyes, Zoila, 4,715,143, Cl. 47-57.600.
Plant, Howard L.; Regis, Richard R.; and Moore, Richard C., to Uniroyal Chemical Company, Inc. Certain 2-(pyridyl or thienyl)-1,3,4-oxadiazole-5-methylene-thio-phosphates, thio analogues thereof compositions containing same and pesticidal use. 4,654,330, 3-31-87, Cl. 514-89.000.
Plante, Denis. Elastic band feeding and tensioning mechanism for a sewing machine. 4,703,706, 11-3-87, Cl. 112-265.100.
Plante, Leo J.: *See*—
Rattray, Kendrick D.; and Plante, Leo J., 4,703,224, Cl. 313-487.000.
Plante, Robert; and Lamarre, Daniel, to Canada, Her Majesty the Queen in right of. Tracking simulator. 4,672,431, 6-9-87, Cl. 358-104.000.
Plante, Roland L.; and McKenney, Austin L., to Itek Corporation. Variable thickness deformable mirror. 4,655,563, 4-7-87, Cl. 350-611.000.
Planthaber, Rudolph F.: *See*—
Eads, Harold O.; and Planthaber, Rudolph F., 4,655,494, Cl. 294-49.000.
Plantholt, Martin; Eiberger, Berthold; and Schroder, Hartmut, to ANT Nachrichtentechnik GmbH. Method and apparatus for using a vertical internal test signal for phase control of an offset modulation of offset sampling system. 4,661,839, 4-28-87, Cl. 358-12.000.
Plantorgan Werk Heinrich G E. Christensen KG: *See*—
Fritz, Hans; Dodt, Johannes; Seemuller, Ursula; and Fink, Ernst, 4,654,302, Cl. 435-70.000.
Plantorganwerk KG: *See*—
Seemuller, Ursula; Dodt, Johannes; and Fritz, Hans, 4,636,489, Cl. 514-12.000.
Plantsch, Josef: *See*—
Kobler, Ingo; and Plantsch, Josef, 4,681,035, Cl. 101-217.000.
Plaot, Michael, to Allied Corporation. Flat bed optical scanning beam deflection system. 4,690,485, 9-1-87, Cl. 350-6.500.
Plapp, Gunther; Zichner, Botho; Jautelat, Rudiger; Kohler, Rolf; Kratt, Alfred; and Muller, Hans-Martin, to Robert Bosch GmbH. Method of controlling tank venting in an internal combustion engine and apparatus therefor. 4,705,007, 11-10-87, Cl. 123-519.000.
Plapp, Gunther: *See*—
Bertsch, Richard; Gunther, Dieter; Knapp, Heinrich; and Plapp, Gunther, 4,660,524, Cl. 123-468.000.
Plapp, Nile E.; and Willett, Ray W., to Centech Corporation. Vapor phase processing system. 4,634,000, 1-6-87, Cl. 198-800.000.
Plapper, Jurgen: *See*—
Willmund, Wolf-Dieter; Plapper, Jurgen; Pieper, Friedrich; and Heidrich, Jochen, 4,654,042, Cl. 8-94.220.
Plaquin, Bernard; and Fradin, Louis, to Vallourec. Method of machining threaded pipe-ends. 4,665,780, 5-19-87, Cl. 82-1.00C.
Plaquin, Bernard A.; and Fradin, Louis, to Vallourec. Method and apparatus for making a joint for steel tubes. 4,641,410, 2-10-87, Cl. 29-407.000.
Plas Plugs Limited: *See*—
Hepworth, Paul S., 4,660,273, Cl. 29-566.400.
Hepworth, Paul S., 4,666,354, Cl. 411-40.000.
Plaschke, Herbert: *See*—
Wauer, Dieter; Plaschke, Herbert; Butz, Otto; and Ganser, Josef, 4,652,742, Cl. 250-223.00R.
Plasencia, Richard, to Trinity Development Corporation. Tape applicator. 4,652,331, 3-24-87, Cl. 156-526.000.
Plaskett, John, to Frito-Lay, Inc. Apparatus for automatically locking L-slide lock cartons. 4,656,810, 4-14-87, Cl. 53-374.000.
Plasma Energy Corporation: *See*—
Camacho, Salvador L.; Dochterman, Jack L.; and Lindsay, Richard D., 4,654,076, Cl. 75-10.190.
Camacho, Salvador L.; and Camacho, David P., 4,678,888, Cl. 219-121.0PW.
Camacho, Salvador L., 4,694,464, Cl. 373-22.000.
Plasma Materials: *See*—
Poole, John W., 4,656,330, Cl. 219-121.0PR.
Plasmainvent AG: *See*—
Gruner, Heiko; and Muller, Markus, 4,661,682, Cl. 219-121.0PL.
Plasmon Data Systems, P.V.: *See*—
Pettigrew, Robert M.; Gardner, Keith; and Longman, Robert J., 4,703,469, Cl. 369-101.000.
Plasschaert, Paul E.: *See*—
McCallum, Robert S.; Plasschaert, Paul E.; Landheer, Dolf; and Gandhi, Hemant M., 4,679,060, Cl. 346-159.000.
Plassmeier, Horst: *See*—
Goldbeck, Heinz; Plassmeier, Horst; and Struck, Herbert, 4,665,843, Cl. 112-68.000.
Plasson Maagan Michael Industries Ltd.: *See*—
Shomer, Yair, 4,649,866, Cl. 119-75.000.
Uri, Ehud, 4,703,721, Cl. 119-81.000.
Plastech International, Inc.: *See*—
Wise, Thomas W., 4,648,522, Cl. 220-5.00R.
Plasteco, Inc.: *See*—
Sandow, Kiyoshi, 4,703,596, Cl. 52-200.000.
Plaster, James L., to Honeywell Inc. Method of manufacturing a high-bandwidth, high radiance, surface emitting LED. 4,675,058, 6-23-87, Cl. 148-171.000.
Plasti-Bat, Inc.: *See*—
Yoder, Carole, 4,689,001, Cl. 425-183.000.
Plasti-Line, Inc.: *See*—
Ramsay, Charles F., 4,682,430, Cl. 40-5.000.
Plasti-Max S.r.l.: *See*—
Mazzucchelli, Arnaldo, 4,646,452, Cl. 40-2.00R.
Plastic Oddities, Inc.: *See*—
Izzi, Lewis B., Sr., 4,637,422, Cl. 137-360.000.
Robertson, Charles D., 4,646,593, Cl. 81-64.000.
Plastic Recycling Inc.: *See*—
Ruppman, Kurt H.; and Prano, Charles A., 4,715,920, Cl. 156-344.000.
Plastic Specialties, Inc.: *See*—
Phipps, Cornelius M.; and Pershak, William C., 4,694,960, Cl. 206-469.000.
Phipps, Cornelius M., Sr.; and Phipps, Cornelius M., Jr., 4,680,967, Cl. 66-117.000.
Plastic Specialties and Technologies, Inc.: *See*—
Hale, Ronald G.; Woodley, Thomas R.; and Tornstrom, Paul S., 4,642,200, Cl. 252-400.540.
Radtke, Werner A.; and Roe, Joseph L., 4,704,778, Cl. 29-235.00.
Plastic Systems, Inc.: *See*—
Gordon, Michael E.; Cohen, Lenard; Hudspeth, William; and Mc Paul, 4,662,695, Cl. 339-14.00R.
Plastic Tubing Industries, Inc.: *See*—
Maroschak, Michael D.; Atcl.ley, Frederick P.; and Evens, Douglas G., 4,681,684, Cl. 210-532.200.
Plastics Engineering Company: *See*—
Korb, Louis L.; and Waitkus, Phillip A., 4,668,496, Cl. 423-445.00.
Korb, Louis L.; and Lauritsen, Keith E., 4,676,944, Cl. 264-325.00.
Waitkus, Phillip A.; and Lepeska, Bohumir, 4,656,239, Cl. 528-140.000.
Plastics, Inc.: *See*—
Colato, Albert E., 4,713,513, Cl. 219-10.55F.
Danley, Allen M., 4,647,745, Cl. 219-10.55F.
Plastipak Packaging, Inc.: *See*—
Darr, Richard C., 4,639,206, Cl. 425-503.000.
Neat, Benjamin C., 4,655,363, Cl. 220-268.000.
Slat, William A.; Darr, Richard C.; Dunlap, Richard L.; and Larson, Craig A., 4,639,207, Cl. 425-503.000.
Slat, William A., 4,662,528, Cl. 215-12.00R.
Plaston AG: *See*—
Gutmann, Franz, 4,698,188, Cl. 261-107.000.
Plata, Miroslaw, to Swiss Aluminium Ltd. Mold. 4,674,555, 6-23-87, Cl. 164-150.000.
Plate, Hans-Georg: *See*—
Soltow, Uwe; Guthke, Hans-Peter; Plate, Hans-Georg; Lechner, Johann; and Kirma, Safa, 4,715,571, Cl. 248-68.100.
Plateau Products Corp.: *See*—
Chezem, Jimmie A., 4,673,203, Cl. 292-339.000.
Platek, Stanley W.: *See*—
Hazelett, Robert W.; Petry, Charles J.; and Platek, Stanley W., 4,648,438, Cl. 164-475.000.
Platel, Alain Y.; Bourgery, Guy R.; and Lacour, Alain, deceased (by Jose Guiblain, Heleae Christiane, Cecile Helene Laurence Lacour, Laurent Pierre Rolland Lacour, heirs), to Delalande S.A. Arylic derivatives of piperazine, the method of preparing same and their application in therapeutics. 4,639,452, 1-27-87, Cl. 514-252.000.
Plater, Michael G.; Middleton, Kenneth; and Jackson, David B., to Hollybank Engineering Company Limited. Fishplate. 4,685,839, 8-11-87, Cl. 405-288.000.
Plath, Dieter: *See*—
Just, Christoph; Plath, Dieter; and Walz, Gerd, 4,704,442, Cl. 526-273.000.
Just, Christoph; Plath, Dieter; and Walz, Gerd, 4,705,885, Cl. 560-158.000.
Plath, Ernst-Dieter, to Sipra Patententwicklungs-und Beteiligungsgesellschaft mbH. Knitting machine. 4,693,092, 9-15-87, Cl. 66-55.000.
Plath, Gernold: *See*—
Hohlweck, Hans; Plath, Gernold; and Baisch, Friedhelm, 4,635,198, Cl. 364-414.000.
Plath, Peter; Rohr, Wolfgang; Schwendemann, Volker; and Wuerzer, Bruno, to BASF Aktiengesellschaft. Heterocyclic dihaloacetamides and herbicides which contain acetanilides as herbicidal active ingredients and the dihaloacetamides as antagonistic agents. 4,636,246, 1-13-87, Cl. 71-92.000.
Plath, Peter: *See*—
Schirmer, Ulrich; Plath, Peter; Sauter, Hubert; and Wuerzer, Bruno, 4,642,132, Cl. 71-90.000.
Platt, Richard L.: *See*—
Kirschenberg, Bruce H.; and Platt, Richard L., 4,709,692, Cl. 128-78.000.
Platt Saco Lowell Corporation: *See*—
Cooley, Edward J.; and Shaw, Franklin D., 4,709,452, Cl. 19-159.00R.
Platt, William J., to National Rolling Mills Inc. Laser welded ceiling grid members. 4,713,919, 12-22-87, Cl. 52-232.000.

Platte, Brian G.: *See—*
Herzog, Alexander; Marlin, James W.; Platte, Brian G.; and Yeskei, Filip J., 4,651,278, Cl. 364-300.000.
Plattner, Jacob J.: *See—*
Luly, Jay R.; Plattner, Jacob J.; and Fung, Anthony K., 4,680,284, Cl. 514-18.000.
Plattner, John J.: *See—*
Luly, Jay R.; Plattner, John J.; and Dellaria, Joseph F., 4,645,759, Cl. 514-18.000.
Luly, Jay R.; Plattner, John J.; and Dellaria, Joseph F., 4,652,551, Cl. 514-18.000.
Platz, Winfried, to Siemens Gammasonics, Inc. Counterbalanced radiation detection system. 4,652,759, 3-24-87, Cl. 250-363.00S.
Platzer, Stephan J. W.; and Koletar, Gabor I., to American Hoechst Corporation. Negative working diazo color proofing method. 4,650,738, 3-17-87, Cl. 430-143.000.
Platzer, Stephan J. W.; Koletar, Gabor I.; and Shadrach, Richard L., to American Hoechst Corporation. Positive working naphthoquinone diazide color proofing transfer process. 4,659,642, 4-21-87, Cl. 430-143.000.
Plavac, Frank; and Wollenberg, Robert H., to Chevron Research Company. Modified succinimides (x). 4,680,129, 7-14-87, Cl. 252-51.50A.
Plavac, Frank, to Chevron Research Company. Poly(oxyalkylene) aminoether carbamates as deposit control additives. 4,695,291, 9-22-87, Cl. 44-62.000.
Plavetich, Richard G., to General Motors Corporation. Convertible seat apparatus and method. 4,699,418, 10-13-87, Cl. 296-65.00R.
Plavskikh, Vladimir D.: *See—*
Kostylev, Alexandr D.; Plavskikh, Vladimir D.; Skachkov, Konstantin B.; Terskov, Alexei D.; Reznikov, Igor I.; and Tarasenko, Vladimir I., 4,697,647, Cl. 173-91.000.
Shemyakin, Evgeny I.; Kamensky, Veniamin V.; Kostylev, Alexandr D.; Sudnishnikov, Boris V.; Tupitsyn, Sergei K.; Tupitsyn, Konstantin K.; Plavskikh, Vladimir D.; and Chepurnoi, Nikolai P., 4,708,211, Cl. 175-19.000.
Plawsky, Joel L.: *See—*
Hatton, T. Alan; and Plawsky, Joel L., 4,662,749, Cl. 356-336.000.
Play, S. A.: *See—*
Lazares, Joaquin J., 4,709,960, Cl. 297-250.000.
Plaza, Patrice, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Electrostatic print head. 4,636,816, 1-13-87, Cl. 346-155.000.
Plaza, Patrice, to La Telephonie Industrielle et Commerciale Telic Alcatel. Electrostatic print head. 4,689,643, 8-25-87, Cl. 346-155.000.
Player, Duane W.; and Leach, Peter W., to Evans Products Company. Cone discharge for diaphragm discharge rotary grinding mill 4,666,90, 3-3-87, Cl. 241-179.000.
Player, Kenneth W.; and Wilson, Lonny L., to SCM Corporation. Savory, flavored baking chips. 4,643,907, 2-17-87, Cl. 426-560.000.
Player, Kenneth W.: *See—*
Porcello, Sam J.; Manns, James M.; Player, Kenneth W.; and Wilson, Lonny L., 4,711,788, Cl. 426-94.000.
Plectronics Corporation: *See—*
Bush, Vincent N., 4,673,368, Cl. 446-8.000.
Pleau, Jean-Marie: *See—*
Bach, Jean-Francois; Dardenne, Mireille; Pleau, Jean-Marie; Hamburger, Jean; Bricas, Evanghelos; Martinez, Jean; Blanot, Didier; Auger, Genevieve; Lefrancier, Pierre; and Amor, Bernard, 4,680,276, Cl. 436-542.000.
Pleau, Medric H.: *See—*
Danforth, Ronald V.; and Pleau, Medric H., 4,691,500, Cl. 53-478.000.
Plehnert, Kurt: *See—*
Beil, Gerhard; Pichler, Alfred; Puchonik, Horst; and Plehnert, Kurt, 4,633,780, Cl. 156-643.000.
Pleil, Viktor W.: *See—*
Furbee, Avery D.; Pleil, Viktor W.; and Burke, James E., 4,685,118, Cl. 378-114.000.
Plenes, Peter; and Wolf, Erich, to Farco-Pharma GmbH. Process for collecting fragments which are obtained on shattering stones in body cavities of living humans and other mammals. 4,696,297, 9-29-87, Cl. 128-303.100.
Plessis, Bernard J., to A. O. Smith Corporation. Induction motor winding. 4,675,591, 6-23-87, Cl. 318-773.000.
Pleuss, Melvin G., Jr.: *See—*
Browning, Ronald C.; and Pleuss, Melvin G., Jr., 4,659,813, Cl. 540.225.000.
Plempel, Manfred: *See—*
Holmwood, Graham; Buchel, Karl H.; Plempel, Manfred; and Haller, Ingo, 4,652,579, Cl. 514-383.000.
Plessens, Arnold; Streissle, Gert; Plempel, Manfred; Buchel, Karl H.; Elbe, Hans-Ludwig; Holmwood, Graham; Kraatz, Udo; and Regel, Erik, 4,668,660, Cl. 514-383.000.
Plenefuhr, Ulrich; Buchel, Karl H.; Jager, Gerhard; Plempel, Manfred; and Radt, Walter, 4,670,336, Cl. 428-359.000.
Pleuer, Dieter, to Gewerkschaft Eisenhutte Westfalia GmbH. Pivot connections for use with mine roof supports. 4,708,531, 11-24-87, Cl. 405.296.000.
Plexico, John A.; Krall, Thomas J.; and Nowicki, Casimir W., to Plasti-Illinois, Inc. Apparatus for delivering labels to blow molds of plastic container blowing machine and removing the blown containers with the labels thereon. 4,679,997, 7-14-87, Cl. 425-126.00R.
Plexman, Raymond A.: *See—*
Marks, Maurice J.; Porter, James R.; and Plepys, Raymond A., 4,654,443, Cl. 564-305.000.
Marks, Maurice J.; and Plepys, Raymond A., 4,658,007, Cl. 528-55.000.
Turner, Robert B.; Peffley, Richard D.; Plepys, Raymond A.; Priester, Ralph D.; Gonzales, Manuel, Jr.; and Bushman, Kimbley A., 4,686,242, Cl. 521-137.000.
Pleschiutschnigg, Fritz-Peter: *See—*
Eulet, Horst; Meyer, Hans-Joachim; and Pleschiutschnigg, Fritz-Peter, 4,658,884, Cl. 164-443.000.
Plescia, Carl T.; and Gamble, Donald W., to Ford Aerospace & Communications Corporation. Pointing compensation system for spacecraft instruments. 4,687,161, 8-18-87, Cl. 244-171.000.
Plescia, Ralphael. Bridge for stringed instruments. 4,667,559, 5-26-87, Cl. 84-309.000.
Plescia, Ralphael. Nut for stringed instruments. 4,696,219, 9-29-87, Cl. 84-314.00N.
Plesinger, Boris; and Brown, Lynn H., to Honeywell Information Systems Inc. Squeegee for screen process printers for printing of dielectric and metallic pastes for single and multilayer hybrid circuits. 4,665,822, 5-19-87, Cl. 101-123.000.
Pleska, John C.; and Mock, Gerald L., to Fortel, Inc. Speakerphone telephone answering machine. 4,689,813, 8-25-87, Cl. 379-80.000.
Pleskot, Ales: *See—*
Safar, Vaclav; Lukes, Jindrich; and Pleskot, Ales, 4,699,327, Cl. 242-18.0DD.
Pleszniarski, Edward J.; Loose, Richard D.; and Capo, Juan M., to General Motors Corporation. Seat belt guide loop. 4,642,853, 2-17-87, Cl. 24-163.00R.
Pless, Benjamin D.: *See—*
Sluetz, James E.; Pless, Benjamin D.; and Spehr, Paul R., 4,662,382, Cl. 128-785.000.
Pless, Emory J.: *See—*
Fenn, Robert W., III; Pless, Emory J.; Harris, Richard L.; and O'Leary, Kevin, 4,701,250, Cl. 204-283.000.
Pless, Peter; and Andersen, Henning R. Esophageal electrode probe useful for electrical stimulation of the heart. 4,640,298, 2-3-87, Cl. 128-784.000.
Plessey Company plc, The: *See—*
Heller, Harold H.; Oliver, Stephen N.; Whittal, John; Johncock, William; Darcy, Paul J.; and Trundle, Clive, 4,685,783, Cl. 351-163.000.
Maddern, Thomas S.; and Philip, Alexander S., 4,648,090, Cl. 370-110.100.
Plessey Incorporated: *See—*
Barba, Valentin G.; and Shube, Eugene E., 4,683,407, Cl. 318-689.000.
Plessey Overseas Limited: *See—*
Attenborough, Colin, 4,686,488, Cl. 331-2.000.
Ball, Alan K., 4,635,059, Cl. 342-117.000.
Beaufoy, Raymond, 4,697,263, Cl. 370-85.000.
Brookshank, Richard N., 4,654,870, Cl. 379-156.000.
Carter, Andrew C.; and Stewart, William J., 4,636,030, Cl. 350-96.180.
Carter, Andrew C.; and Goodfellow, Robert C., 4,652,080, Cl. 350-96.190.
Carter, Christopher F., 4,701,619, Cl. 250-338.000.
Cordwell, Brian; and Hayes, Paul M., 4,692,713, Cl. 331-1.00A.
Dakin, John P., 4,638,153, Cl. 250-227.000.
Dakin, John P., 4,673,299, Cl. 374-131.000.
Davies, Ian; Cotton, Sydney; and Howard, Anthony M., 4,698,901, Cl. 437-209.000.
Field, John R., 4,709,615, Cl. 89-1.560.
Geen, Michael W.; and Eaton, Ralph M., 4,649,992, Cl. 165-185.000.
Henning, Michael L.; and Langston, Robert J., 4,653,916, Cl. 356-345.000.
Herman, Ralph B., 4,677,666, Cl. 379-392.000.
Hewinson, John; and Stockdale, John A., 4,670,870, Cl. 370-28.000.
Komorowski, Robert; and Punia, Harpal, 4,644,864, Cl. 102-215.000.
Komorowski, Robert B.; and Else, Mark, 4,705,477, Cl. 434-24.000.
Lawton, Rodney J., 4,642,490, Cl. 307-540.000.
Oxley, Christopher H.; and Holden, Anthony J., 4,675,712, Cl. 357-22.000.
Rhodes, Stephen J., 4,698,125, Cl. 156-643.000.
Shapter, Hugh; and Wood, Colin, 4,691,206, Cl. 343-700.0MS.
Stewart, William J., 4,648,134, Cl. 455-619.000.
Taylor, Peter J.; Clarke, Alan; and Thompson, John S., 4,691,510, Cl. 60-39.094.
Verity, Philip R., 4,695,937, Cl. 363-25.000.
Whatmore, Roger W.; and Young, Iain M., 4,634,913, Cl. 310-313.00A.
Wood, Colin, 4,672,386, Cl. 343-770.000.
Yelland, John; and Thompson, Alan, 4,700,145, Cl. 330-286.000.
Plessey South Africa Limited: *See—*
Braun, Robin M., 4,634,999, Cl. 331-4.000.
Schreuder, Jan, 4,646,092, Cl. 342-125.000.
Plessis, Andre; and Gabbay, Emile, to Thomson-CSF. X-ray tube for producing a high-efficiency beam and especially a pencil beam. 4,675,890, 6-23-87, Cl. 378-121.000.
Plessis, Andre; and Leguen, Jacques, to Thomson-CGR. X-ray apparatus with focus position control. 4,675,891, 6-23-87, Cl. 378-132.000.
Plessis, Andre; and Seite, Guy, to Thomson CGR. Process for the control of the position of the focus of an X-ray tube and control apparatus performing said process. 4,675,892, 6-23-87, Cl. 378-145.000.

Plessis, Andre: *See—*
Le Guen, Jacques; and Plessis, Andre, 4,651,336, Cl. 378-125.000.
Plessl, Andreas: *See—*
Ischi, Jurg; and Plessl, Andreas, 4,675,484, Cl. 200-146.00R.
Munzinger, Karl; Peter, Jorg; Plessl, Andreas; Poole, Denis; and Vit, Jan G., 4,689,717, Cl. 361-335.000.
Plessner, Karl W.; and Poole, Michael J., to BICC public limited company. Optical cables. 4,709,983, 12-1-87, Cl. 350-96.230.
Plester, Jorg: *See—*
Salje, Ernst; and Plester, Jorg, 4,641,561, Cl. 83-835.000.
Pletcher, Donald L., to Midland-Ross Corporation. Retainer for mechanical fastener member. 4,645,393, 2-24-87, Cl. 411-84.000.
Pletcher, Gary; Henderson, Robert C.; Tiley, Robert; and Cesaro, Michael J. Method of making a corrosion proof multi-piece housing. 4,658,491, 4-21-87, Cl. 29-423.000.
Pletscher, Oskar, to Gebruder Pletscher. Support or kick stand for two-wheeled vehicle. 4,655,472, 4-7-87, Cl. 280-303.000.
Plett, Calvin: *See—*
Rosenbaum, Stanley D.; and Plett, Calvin, 4,691,271, Cl. 363-60.000.
Rosenbaum, Stanley D.; and Plett, Calvin, 4,713,838, Cl. 379-252.000.
Plettner, Horst: *See—*
Koerner, Gerhard; Hahn, Walter; and Plettner, Horst, 4,654,492, Cl. 200-153.00P.
Pleva, Robert M.: *See—*
Sullivan, Thomas M.; Pleva, Robert M.; and Matthews, Thomas P., 4,659,876, Cl. 379-96.000.
Plever, Roland: *See—*
Duchamp, Robert; Plever, Roland; and Truchot, Patrick, 4,651,638, Cl. 100-211.000.
Plewan, Otto: *See—*
Engelmann, Manfred; Kraus, Helmut; and Plewan, Otto, 4,636,547, Cl. 524-523.000.
Pleyber, Gaetan: *See—*
Allemand, Robert; Gagelin, Jean-Jacques; and Pleyber, Gaetan, 4,645,934, Cl. 250-374.000.
Pleyers, Jozef J. A.: *See—*
Huntjens, Joseph M. J. E.; Kockelmans, Henricus G. J. M.; and Pleyers, Jozef J. A., 4,705,388, Cl. 355-15.000.
Plibrico Japan Co., Ltd.: *See—*
Nishikawa, Akira, 4,651,487, Cl. 52-378.000.
Plicht, Hans-Jurgen; and Runkel, Heinrich, to Hebenstreit GmbH. Wafer baking automatic machine. 4,648,314, 3-10-87, Cl. 99-373.000.
Plichta, Roman T.: *See—*
Erickson, Michael E.; Plichta, Roman T.; and Rajanayakam, Daniel F., 4,662,669, Cl. 294-68.270.
Olson, Carl B.; Plichta, Roman T.; and Coyne, Daniel W., 4,661,265, Cl. 210-804.000.
Plicon Corporation: *See—*
Raines, Charles D., 4,656,068, Cl. 428-35.000.
Pliefke, Engelbert, to Hoechst Aktiengesellschaft. Process for the electrochemical roughening of aluminum for use in printing plate supports. 4,661,219, 4-28-87, Cl. 204-129.750.
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Pliefke, Engelbert, to Hoechst Aktiengesellschaft. Process for the electrochemical graining of aluminum for use as printing plate supports. 4,671,859, 6-9-87, Cl. 204-129.950.
Pliefke, Engelbert: *See—*
Schmitt, Klaus; Schoen, Klaus-Peter; Riedel, Peter; Lingnau, Juergen; and Pliefke, Engelbert, 4,684,594, Cl. 430-49.000.
Plies, Erich; and Kuck, Gerd, to Siemens Aktiengesellschaft. Scanning system for a particle beam scanning apparatus. 4,684,808, 8-4-87, Cl. 250-396.00R.
Pliml, Frank V., to Illinois Tool Works Inc. Two-position electrical switch assembly. 4,636,603, 1-13-87, Cl. 200-296.000.
Plimley, Raymond E.: *See—*
Goodridge, Francis; Plimley, Raymond E.; and Leetham, Robert P., 4,670,116, Cl. 204-130.000.
Plischka, Gerhard, to Feldmuehle Aktiengesellschaft. Jaw implant for receiving a replacement-tooth holder. 4,668,191, 5-26-87, Cl. 433-174.000.
Plischke, LeMoyne W.: *See—*
Osborn, Scott E.; Farrugia, Vincent J.; Plischke, LeMoyne W.; and Wu, Chester C., 4,701,518, Cl. 528-336.000.
Plissonneau, Bernard P.; and Poggi, Rene J., to Societe Nationale Industrielle et Aerospatiale. Life-saving basket. 4,646,929, 3-3-87, Cl. 220-19.000.
Pliura, Diana H.: *See—*
Krantz, Alexander; Castelhano, Arlindo L.; and Pliura, Diana H., 4,668,703, Cl. 514-549.000.
PLM AB: *See—*
Forslund, Sven E., 4,655,341, Cl. 198-771.000.
Jakobsen, Kjell M.; and Nilsson, Claes T., 4,701,121, Cl. 425-526.000.
Nilsson, Torsten; and Jakobsen, Kjell M., 4,704,243, Cl. 264-521.000.
Plobst, Dietmar: *See—*
Klepsch, Wilhelm; and Plobst, Dietmar, 4,695,239, Cl. 425-194.000.
Ploeger, Gregory L. Contoured headlight concealment lens. 4,704,667, 11-3-87, Cl. 362-318.000.
Ploeger, Walter, Jr. Printing ribbon spool. 4,701,062, 10-20-87, Cl. 400-202.100.
Plohn, Gerhard: *See—*
Diegel, Dieter; Plohn, Gerhard; and Schuh, Manfred, deceased, 4,694,188, Cl. 290-40.00B.
Ploix, Jean L.: *See—*
Fraleux, Jean; Hennion, Christine; Mora, Marie H.; and Ploix, Jean L., 4,643,689, Cl. 445-3.000.
Plomb, Francis: *See—*
Fresard, Marcel; Plomb, Francis; and Court, Pierre, 4,649,608, Cl. 29-26.00A.
Plomer, Anton: *See—*
Beisswanger, Rudolf; Wohrle, Albert, deceased; and Plomer, Anton, 4,700,658, Cl. 118-67.000.
Plonski, J. Philip, to Kollmorgen Technologies Corporation. Method for making coaxial interconnection boards. 4,679,321, 7-14-87, Cl. 29-850.000.
Ploog, Uwe; Busch, Peter; Hensen, Hermann; and Thiele, Klaus, to Henkel Kommanditgesellschaft auf Aktien. Method and composition for increasing wet hair combability. 4,670,253, 6-2-87, Cl. 424-70.00.
Ploppa, Jurgen; and Schmid, Franz, to H. Stoll GmbH & Co. Control magnet assembly for a pattern apparatus in knitting machines for electrically controlled needle selection. 4,715,198, 12-29-87, Cl. 66-75.200.
Plotkin, Elliot V.: *See—*
Higgins, Irving J.; Hill, Hugh A. O.; and Plotkin, Elliot V., 4,711,245, Cl. 128-635.000.
Plotkin, Jeffrey S.: *See—*
Michaelson, Robert C.; and Plotkin, Jeffrey S., 4,714,788, Cl. 568-697.000.
Plotkin, Stanley A.; and Clark, H. Fred, to Wistar Institute of Anatomy and Biology, The. Vaccine, method for its preparation, and use thereof in vaccinating humans against rotavirus infection. 4,636,385, 1-13-87, Cl. 424-89.000.
Plouff, Donald A., to General Telephone Company of Indiana. Multiplexed terminal for monitoring and controlling a plurality of remote telephone switches. 4,696,026, 9-22-87, Cl. 379-34.000.
Plough, Inc.: *See—*
Kingsford, Ted L., 4,687,364, Cl. 401-127.000.
Lane, James W.; Patikshak, Davendra D.; and Kaplan, Carl, 4,661,476, Cl. 514-60.000.
McShane, James E., 4,664,925, Cl. 426-250.000.
Plough, Irving L., to Acrowood Corporation. Feed works for veneer chippers. 4,708,181, 11-24-87, Cl. 144-249.00R.
Plourde, Bertrand E.; and Mack, Michael E., to United States of America, Navy, The. Electro-optical modulator for an electro-optically modulated laser. 4,669,085, 5-26-87, Cl. 372-12.000.
Plovanich, Charles J.; Ossont, Guy H.; King, Keith C.; Irwin, Robert H.; and Knoop, Walter V., to Revere Copper and Brass Incorporated. Apparatus and processes for compressing and/or biodigesting material. 4,683,814, 8-4-87, Cl. 100-37.000.
Plovie, Barth-lomew. Exercise device. 4,662,629, 5-5-87, Cl. 272-62.000.
Plow, Arthur E., to T K Valve & Manufacturing, Inc. Apparatus for converting linear motion to rotary motion. 4,693,128, 9-15-87, Cl. 74-104.000.
Plowman, Keith R.; and Goldsmith, Charles E., to Dow Chemical Company, The. Method of making an electrolyte-permeable, heterogeneous polymer sheet for a gas diffusion composite electrode. 4,659,528, 4-21-87, Cl. 264-49.000.
Plowman, Richard E.: *See—*
Thornton, Henry M.; Thornton, John S.; Munchel, Eugene A.; and Plowman, Richard E., 4,674,925, Cl. 408-1.00R.
Plucinski, Andrzej J.: *See—*
Frankel, Eric; and Plucinski, Andrzej J., 4,679,571, Cl. 128-764.000.
Pluddemann, Gerhard, to Mavilor Systemes S.A. Circuit arrangement for generating an electric velocity signal. 4,680,721, 7-14-87, Cl. 364-565.000.
Plude, Leo W.: *See—*
Church, Royce F.; McCaffrey, Donald B.; and Plude, Leo W., 4,681,286, Cl. 244-129.500.
Plueddemann, Edwin P., to Dow Corning Corporation. Silane coupling agents. 4,650,889, 3-17-87, Cl. 556-421.000.
Plueddemann, Edwin P., to Dow Corning Corporation. Novel organosilicon compounds. 4,659,851, 4-21-87, Cl. 556-431.000.
Plueddemann, Edwin P., to Dow Corning Corporation. Coupling agent compositions. 4,689,085, 8-25-87, Cl. 106-287.140.
Plueddemann, Edwin P., to Dow Corning Corporation. Polyethylene composite comprising a coupling agent composition comprising fumaric acid and an aminosilane. 4,690,959, 9-1-87, Cl. 523-213.000.
Pluess, Heinz, to Digmesa AG Digitale Messtechnik. Measuring device for beverage dispenser lines. 4,666,061, 5-19-87, Cl. 222-71.000.
Plug-In Storage Systems, Inc.: *See—*
Maroney, Ralf P.; Fishkind, Gregory A.; and Schneider, Frederick, 4,638,399, Cl. 361-220.000.
Pluim, Arthur W., Jr., to Minnesota Mining and Manufacturing Company. Mold having ceramic insert. 4,704,079, 11-3-87, Cl. 425-190.000.
Plum, Hans; and Landsiedel, Horst, to Schering Aktiengesellschaft. Biocidal tributyltin compounds. 4,684,663, 8-4-87, Cl. 514-493.000.
Plum, Helmut, to Hoechst Aktiengesellschaft. Process for preparing copolymers and use of the products obtained. 4,710,556, 12-1-87, Cl. 526-273.000.
Plumadore, John D., to Photon Chroma, Inc. Optical system for electrophotographic film camera/reader-verifier. 4,676,626, 6-30-87, Cl. 355-5.000.
Plumail, Jean-Claude; Le Page, Jean-Francois; and Giuliani, Pierre, to Institut Francais Du Petrole. Process for catalytic hydrotreatment of

heavy hydrocarbons, in fixed or moving bed, with injection of a metal compound into the charge. 4,655,905, 4-7-87, Cl. 208-216.00R.
umb, Bruce E.; and Freeman, C. Dal, to Bud Antle, Inc. Harvesting apparatus having detachable wings. 4,655,667, 4-7-87, Cl. 414-343.000.
umb, Edwin W., to Pressmate, Inc. Side by side air feeder for advancing stock to a power press and the like. 4,694,982, 9-22-87, Cl. 226-115.000.
umb, Harry A.: *See*—
Leonard, John A.; and Plumb, Harry A., 4,649,328, Cl. 318-317.000.
umbmaster, Inc: *See*—
Sherby, Marc, 4,699,169, Cl. 137-434.000.
umbridge, Michael M. R. Golfing accessory. 4,645,105, 2-24-87, Cl. 224-269.000.
ume, Edward G., to U.S. Philips Corporation. Television transmitter. 4,670,789, 6-2-87, Cl. 358-186.000.
ume, Robert W. Convertible seat-bed with improved actuator for third panel. 4,660,235, 4-28-87, Cl. 5-38.000.
ume, Steven H.: *See*—
Steiner, Robert E.; Cox, Karmen D.; Terpstra, Daniel A.; Metzger, James J., Jr.; and Plume, Steven H., 4,641,557, Cl. 83-71.000.
umeret, Raymond: *See*—
Guery, Jean-Pierre; Gashet, Gerald; Ohfant, Jacques; and Plumeret, Raymond, 4,644,308, Cl. 335-128.000.
umier, Michel, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Process for surveillance and control of operations of loading and unloading of the fuel of a nuclear reactor and apparatus applying this process. 4,713,212, 12-15-87, Cl. 376-258.000.
umley, Roger D.: *See*—
Wilcox, Arnold G., Jr.; and Plumley, Roger D., 4,669,560, Cl. 180-9.100.
umley, Wallace J.: *See*—
Caughman, Donald O.; and Plumley, Wallace J., 4,674,057, Cl. 364-513.000.
ummer, Ernest L., to FMC Corporation. Insecticidal urea substituted 2,3-dihydro- benzofuran and benzothiophene derivatives, compositions, and method of use thereof. 4,636,523, 1-13-87, Cl. 514-443.000.
ummer, Ernest L., to FMC Corporation. Intermediates to insecticidal [1,1'-biphenyl]-3-ylmethyl esters. 4,668,792, 5-26-87, Cl. 546-343.000.
lummer, Ernest L.: *See*—
Phillips, Richard B.; Plummer, Ernest L.; and Engel, John F., 4,701,464, Cl. 514-345.000.
lummer, Harvey R., to AMCA International Corporation. Precision adjustment system for boring tools. 4,648,757, 3-10-87, Cl. 408-12.000.
lummer, James D.: *See*—
Blanchard, Richard A.; and Plummer, James D., 4,682,405, Cl. 29-571.000.
Plummer, Mark A., to Marathon Oil Company. Water extraction from hydrocarbons in the presence of asphaltic precipitates. 4,707,264, 11-17-87, Cl. 210-634.000.
Plummer, William T., to Polaroid Corporation. Electronic printing method. 4,681,427, 7-21-87, Cl. 355-32.000.
Plummer, William T., to Polaroid Corporation. Spectrally filtered lens producing plural f-numbers with different spectral characteristics. 4,687,926, 8-18-87, Cl. 250-226.000.
Plummer, William T., to Polaroid Corporation. Molding apparatus. 4,689,005, 8-25-87, Cl. 425-451.900.
Plummer, William T., to Polaroid Corporation. Method for forming an optical connector. 4,689,184, 8-25-87, Cl. 264-1.500.
Plummer, William T., to Polaroid Corporation. Hybrid image recording and reproduction system. 4,689,696, 8-25-87, Cl. 358-333.000.
Plummer, William T., to Polaroid Corporation. Method and apparatus for reducing optical artifacts. 4,701,045, 10-20-87, Cl. 355-20.000.
Plummer, William T., to Polaroid Corporation. Widely spaced fiber optic connector and multiplexer/demultiplexer using same. 4,707,063, 11-17-87, Cl. 350-96.180.
Plummer, William T.: *See*—
Alston, Lawrence E.; Levinstone, Donald S.; and Plummer, William T., 4,647,975, Cl. 358-213.000.
Baker, James G.; and Plummer, William T., 4,650,292, Cl. 350-432.000.
Clark, Peter P.; and Plummer, William T., 4,675,531, Cl. 250-568.000.
Guerra, John M.; and Plummer, William T., 4,649,324, Cl. 315-370.000.
Guerra, John M.; and Plummer, William T., 4,681,451, Cl. 356-373.000.
Plummer, Wylie J.: *See*—
Reinschmidt, Robert M.; and Plummer, Wylie J., 4,663,741, Cl. 365-189.000.
Plunkett, Allan B.: *See*—
Miller, Timothy J. E.; Plunkett, Allan B.; and Steigerwald, Robert L., 4,684,867, Cl. 318-701.000.
Plunkett, David O.: *See*—
Graham, Stephen L.; and Plunkett, David O., 4,654,389, Cl. 524-272.000.
Graham, Stephen L.; and Plunkett, David O., 4,714,728, Cl. 524-272.000.
Plunkett, Larry E.; and Gresho, William M., to MSL Industries, Inc. Termination assembly for electric fans. 4,636,669, 1-13-87, Cl. 310-51.000.
Plurichemie Anstalt: *See*—
Page, Philip R.; and Heggie, William, 4,655,971, Cl. 260-397.450.
Plus Corporation: *See*—
Hori, Katsumi, 4,674,732, Cl. 270-53.000.
Plus Development Corporation: *See*—
Hahn, Peter S.; Stone, Thomas R.; Moon, William G.; and Harrison, Joel N., 4,703,176, Cl. 250-231.0SE.
Harrison, Joel N.; Moon, William G.; and Graham, Randolph H., 4,639,863, Cl. 364-200.000.
Moon, William G.; Westwood, Donald C.; and Stone, Thomas R., 4,712,146, Cl. 360-97.000.
Stone, Thomas R., 4,661,696, Cl. 250-231.0SE.
Westwood, Donald C., 4,647,997, Cl. 360-105.000.
Plus, Dora, to RCA Corporation. High-speed voltage level shift circuit. 4,656,373, 4-7-87, Cl. 307-475.000.
Plus Manufacturing Co., Inc.: *See*—
Casler, William A.; and Saurenman, Phillip E., 4,636,107, Cl. 403-405.100.
Pluscec, Josip: *See*—
Ondetti, Miquel A.; and Pluscec, Josip, 4,684,660, Cl. 514-423.000.
Plush, Richard Lee, Jr.: *See*—
Arnce, John W., 4,711,635, Cl. 474-152.000.
Pluss, Heinz: *See*—
Gehring, Manfred; and Pluss, Heinz, 4,715,626, Cl. 285-230.000.
Plut, Leonard F.; and Nicolay, David, to Picker International, Inc. Television camera control in radiation imaging. 4,677,477, 6-30-87, Cl. 358-111.000.
Plutschuck, Lawrence; and Hunt, Carl E., to GTE Valeron Corporation. Coarse radial adjustment boring quill. 4,708,543, 11-24-87, Cl. 408-151.000.
Pluviose, Michel, to Centre Technique des Industries Mecaniques. Method for stabilizing the flow of fluids at the time of expansion accompanied by kinetic energy degradation, a valve and a pressure reducer for carrying out said method. 4,688,755, 8-25-87, Cl. 251-121.000.
Plyler, Robert G.; and Nestor, Charles R., to General Motors Corporation. Low profile wedge base lamp bulb socket assembly. 4,653,841, 3-31-87, Cl. 339-176.00L.
Plyler, Robert G., to General Motors Corporation. Universal grommet retainer. 4,678,146, 7-7-87, Cl. 248-56.000.
Plyler, Robert G.; and Garretson, Jay H., to General Motors Corporation. Fuse package. 4,687,270, 8-18-87, Cl. 439-350.000.
Plyler, Robert G.: *See*—
Cross, William E.; Hillestad, Jeanne E.; and Plyler, Robert G., 4,711,509, Cl. 439-587.000.
Plyley, Alan K.: *See*—
Barker, John M.; and Plyley, Alan K., 4,671,445, Cl. 227-19.000.
PMB Systems Engineering Limited: *See*—
Fern, Derek T., 4,639,166, Cl. 405-203.000.
PMC Specialties Group, Inc.: *See*—
Flores, Robert J., 4,678,613, Cl. 260-391.000.
PME Pack-Matic Engineering GmbH: *See*—
Kammler, Roman; and Baur, Walter, 4,674,581, Cl. 177-25.000.
PMT Corporation: *See*—
Iversen, Alfred A.; Eastman, William J.; and Van Beek, Allen L., 4,685,447, Cl. 128-1.00R.
PNC, Inc.: *See*—
Palmer, Clarence K., 4,701,999, Cl. 437-211.000.
Pneumatic Pipewipers, Inc.: *See*—
Stannard, James P.; and Shockley, Charles W., 4,690,213, Cl. 166-84.000.
Pneumatic Scale Corporation: *See*—
Ross, Graham J., 4,714,152, Cl. 198-347.000.
Pneumatici Clement S.p.A.: *See*—
Ruscelli, Emilio; Carrera, Cesare; and Formenti, Giuseppe, 4,709,739, Cl. 152-453.000.
Pneumedic Corp.: *See*—
Curlee, James D., 4,682,587, Cl. 128-78.000.
Curlee, James D., 4,682,588, Cl. 128-78.000.
Pneumo Abex Corporation: *See*—
Bradley, Charles D., Jr., 4,684,284, Cl. 403-320.000.
Dirkin, William; and Feldt, Gary, 4,684,280, Cl. 403-157.000.
Dirkin, William, 4,700,868, Cl. 220-465.000.
Martin, Eugene J.; Tootle, James N.; Fallows, Walter; Lambers, Howard; and Vanderlaan, Robert D., 4,645,178, Cl. 251-229.000.
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Benton, Terry L., 4,685,589, Cl. 220-465.000.
Dirkin, William; Douglass, Duane; Tootle, James N.; and Benton, Terry L., 4,685,384, Cl. 92-166.000.
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Herder, Michael D.; and Lambers, Howard J., 4,646,786, Cl. 137-625.690.
Tootle, James N.; and Martin, Eugene J., 4,714,006, Cl. 92-5.00R.
Vanderlaan, Robert D.; and Heeres, Stanley D., 4,641,812, Cl. 251-65.000.
Vanderlaan, Robert D.; and Meulendyk, John W., 4,672,992, Cl. 137-331.000.
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Jones, Norman S., 4,682,591, Cl. 128-204.250.
Pneutek, Inc.: *See*—
Haytayan, Harry M., 4,655,380, Cl. 227-9.000.
Po, Hong: *See*—
Hakimi, Farhad; Po, Hong; and Snitzer, Elias, 4,680,767, Cl. 372-6.000.
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Pobelle, Jacques, to Commissariat a l'Energie Atomique. Blanking cover for pipe. 4,650,154, 3-17-87, Cl. 251-58.000.

Pobenberger, Ernst, to Patent-Treuhand-Gesellschaft fur Elektrische Gluhlampen m.b.H. Slide magazine for a slide projector having a picture changing device with a horizontally activated slide pusher. 4,671,633, 6-9-87, Cl. 353-104.000.

Pober, Kenneth W.: *See*—
Peiffer, Dennis G.; Lundberg, Robert D.; and Pober, Kenneth W., 4,637,882, Cl. 252-8.514.

Pocanschi, Adrian. Folding bed-table means. 4,707,871, 11-24-87, Cl. 5-3.000.

Poccard, Jacques, to Aerospatiale Societe Nationale Industrielle. System for coupling two flaps of an aircraft wing, and an aircraft wing equipped with such a system. 4,715,567, 12-29-87, Cl. 244-213.000.

Pocci, Marco: *See*—
Bertini, Vincenzo; Marabini, Anna; De Munno, Angela; Barbaro, Maria; and Pocci, Marco, 4,698,171, Cl. 252-60.000.

Poccino-Expresso Import- und Export GmbH. *See*—
Fries, Robert; and Michels, Kurt, 4,660,466, Cl. 99-294.000.

Pochandke, Winfried: *See*—
Weber, Rudolf; Pochandke, Winfried; Andree, Hans; and Anzinger, Hermann, 4,634,544, Cl. 252-99.000.

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Lacroix, Jean-Claude; Franco, Pierre; Le Gall, Stephane; Bourret, Gerard; and Pochet, Jacques, 4,677,644, Cl. 375-5.000.
Lacroix, Jean-Claude; Franco, Pierre; Le Gall, Stephane; Bourret, Gerard; and Pochet, Jacques, 4,689,790, Cl. 370-110.100.

Pochmarski, Luzian; and Polanschutz, Wolfgang, to Voest-Alpine Aktiengesellschaft. Method of establishing a turbulent motion of molten steel within a strand guide. 4,699,205, 10-13-87, Cl. 164-468.000.

Pochmarski, Luzian: *See*—
Polanschutz, Wolfgang; Pochmarski, Luzian; and Moser, Alfred, 4,691,757, Cl. 164-416.000.

Pockl, Franz: *See*—
Kellner, Roman; Mayr, Georg; Proksch, Karl-Heinz; and Pockl, Franz, 4,638,902, Cl. 198-345.000.

Pocknell, David: *See*—
Naylor, Clifford; and Pocknell, David, 4,660,553, Cl. 128-156.000.

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Cooper, Marshall H.; and Pocock, Robert E., 4,653,698, Cl. 241-31.000.

Podany, Clayton J.; and Glaseman, Richard W. Bow sight. 4,638,565, 1-27-87, Cl. 33-265.000.

Podder, Chiraranjan; and Schlesmann, Harro, to Bayer Aktiengesellschaft. Process for the preparation of 4-nitrodiphenylamines. 4,665,232, 5-12-87, Cl. 564-406.000.

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Podesta, Wolfgang: *See*—
Knochel, Arndt; Doscher, Burghard; and Podesta, Wolfgang, 4,705,635, Cl. 210-633.000.

Podgorski, Theodore J., to Honeywell Inc. Getter for a ring laser angular rate sensor. 4,670,691, 6-2-87, Cl. 313-549.000.

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Bergstrom, James W.; and Podgorski, Theodore J., 4,712,917, Cl. 356-350.000.
Mellum, Lowell C.; and Podgorski, Theodore J., 4,672,623, Cl. 372-87.000.

Podhajecki, Stephen T.: *See*—
Alling, Richard L.; Shepard, Richard W.; Landrum, Clyde L.; Tofield, Robert H.; and Podhajecki, Stephen T., 4,677,720, Cl. 29-148.40C.

Podhorniak, Gary S.: *See*—
Marshall, James W.; Haaser, Michael J.; Vanicky, Alex A.; and Podhorniak, Gary S., 4,687,093, Cl. 198-465.200.

Podhrasky, Robert J., to Garrett Electronics, Inc. Metal detector circuit having selectable exclusion range for unwanted objects. 4,700,139, 10-13-87, Cl. 324-329.000.

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Podiak, Richard S., to Champion Spark Plug Company. Method for producing a composite center electrode and an electrode. 4,695,759, 9-22-87, Cl. 313-136.000.

Podiak, Richard S.: *See*—
Byerly, Dale L.; Black, Richard L.; and Podiak, Richard S., 4,643,688, Cl. 445-3.000.

Podlesny, Richard J.: *See*—
Catalano, Anthony W.; D'Aiello, Robert V.; Brewer, John A.; and Podlesny, Richard J., 4,667,058, Cl. 136-244.000.

Podlipnik, Kalman. Dual thermostat controlled outlets. 4,687,050, 8-18-87, Cl. 165-27.000.

Podobinski, David J., to Consolidation Coal Company. Method and apparatus for detecting the rate of rise of direct current. 4,707,761, 11-17-87, Cl. 361-93.000.

Podolak, Peter L.: *See*—
Friedman, Alexander A.; and Podolak, Peter L., 4,690,755, Cl. 210-96.100.

Podoli, Michael J.; and Jensen, Peter J., to LeFeburc Corporation. Large capacity single overhead pneumatic tube system. 4,715,52[illegible] 12-29-87, Cl. 406-111.000.

Podolsky, Richard J.; Baker, Gordon R.; and Brenner, Bernhard, to United States of America, Health and Human Services. Apparatus and method for measuring muscle sarcomere length in viv[illegible] 4,693,606, 9-15-87, Cl. 356-355.000.

Podraza, Kenneth F., to Philip Morris Incorporated. Smoking compositions containing a flavorant-release additive. 4,690,157, 9-1-87, Cl. 131-276.000.

Podrini, Maurizio, to Centro Sperimentale Metallurgico S.p.A. Vertical cells for the continuous electrodeposition of metals at high current density. 4,640,757, 2-3-87, Cl. 204-206.000.

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Podrini, Maurizio, to Centro Sperimentale Metallurgico S.p.A. Radial cell electroplating device. 4,661,230, 4-28-87, Cl. 204-206.000.

Podrini, Maurizio; Ferretti, Alessandro; and Di Schino, Giancarlo, to Centro Sperimentale Metallurgico S.p.A.; and Terni-Societa per l'Industria e l'Elettricita SpA. Continuous casting nozzle. 4,671,4[illegible] 6-9-87, Cl. 222-606.000.

Podsiad, Paul: *See*—
Bibbo, Kenneth L.; and Podsiad, Paul, 4,699,559, Cl. 414-752.00[illegible]

Podszun, Wolfgang; Goossens, John; Suling, Carlhans; Hoffarth, Gunther; Richter, Wolfgang; Uytterhoeven, Herman; and de Witte, Walter, to Agfa-Gevaert Aktiengesellschaft. Electrostatographic suspension developer and a process for its preparation comprising quaternary ionic copolymer for positive toner charge. 4,634,[illegible] 1-27-87, Cl. 430-115.000.

Podszun, Wolfgang: *See*—
Goossens, John; Oppermann, Gunter; Podszun, Wolfgang; and Hartel, Volker, 4,668,417, Cl. 252-75.000.
Reiners, Jurgen; Winkel, Jens; Klauke, Erich; Suling, Carlhans; and Podszun, Wolfgang, 4,665,217, Cl. 560-160.000.
Walkowiak, Michael; Nehren, Klaus; Podszun, Wolfgang; and Finger, Werner, 4,707,504, Cl. 523-109.000.

Poduje, Noel S., to ADE Corporation. Conductivity-type sensor. 4,692,695, 9-8-87, Cl. 324-158.00R.

Podvin, T. Charles, to Micromanipulator Microscope Co., Inc. Microscopic detection of membrane surface defects through interference patterns. 4,636,078, 1-13-87, Cl. 356-359.000.

Podvin, T. Charles; and Porter, Gene A., to Micromanipulator Microscope Co., Inc. Apparatus for positioning flat objects for microscopic examination. 4,641,930, 2-10-87, Cl. 350-529.000.

Poe, Frank E., Jr.; Schwertner, Dan R.; Dunn, Cooper L.; and Whitby, Melvyn F., to Bowen Tools, Inc. Slips for well pipe. 4,715,456, 12-29-87, Cl. 175-423.000.

Poe, L. Richard; and Harmon, Raymond E., to Hartwell Corporation. Stand-off fastener. 4,674,930, 6-23-87, Cl. 411-40.000.

Poehler, Hermann; and Dziemba, Peter, to MAP Mikrofilm Apparatebau Dr. Poehler GmbH & Co KG. Device for transferring flat objects between two stations. 4,653,744, 3-31-87, Cl. 271-264.000.

Poehler, Hermann, to Map Mikrofilm Apparatebau. Sheet film cassette. 4,660,722, 4-28-87, Cl. 206-454.000.

Poehler, Hermann; and Dziemba, Peter, to MAP Mikrofilm Apparatebau Dr. Poehler GmbH & Co. KG. Method of projecting film frames and microfilm reader for carrying out same. 4,666,272, 5-19-87, Cl. 353-25.000.

Poehler, Hermann, to MAP Mikrofilm Apparatebau Dr. Poehler GmbH & Co. KG. Swivel arm. 4,687,166, 3-18-87, Cl. 248-279.000.

Poehler, Theodore O.: *See*—
Potember, Richard S.; and Poehler, Theodore O., 4,663,270, Cl. 430-495.000.
Potember, Richard S.; and Poehler, Theodore O., 4,684,598, Cl. 430-269.000.

Poehler, Theodore O., Jr.: *See*—
Potember, Richard S.; Poehler, Theodore O., Jr.; and Cowan, Dwaine O., 4,652,894, Cl. 357-8.000.

Poels, Eduard K.: *See*—
Van Leeuwen, Willem A.; Poels, Eduard K.; Staal, Leendert H.; and Verzijl, Dirk, 4,665,048, Cl. 502-221.000.

Poenitsch, Rick W., to Meridian Industries, Inc. Orthopedic stocking. 4,649,910, 3-17-87, Cl. 128-165.000.

Poeppel, Roger B.; Greenberg, Sherman; and Diercks, Dwight R., to United States of America, Energy. Methods and apparatus for reducing corrosion in refractory linings. 4,705,563, 11-10-87, Cl. 75-95.000.

Poeppelman, Alan D., to NCR Corporation. Fault tolerant memory. 4,692,923, 9-8-87, Cl. 371-38.000.

Poeppelmeier, Kenneth R.; Funk, Walter G.; Steger, John J.; Fung, Shun C.; Cross, Virginia R.; and Kao, Jar-Lin, to Exxon Research & Engineering Co. Bound zeolite catalyst and process for using said catalyst. 4,648,960, 3-10-87, Cl. 208-138.000.

Poerink, Nicolaas J. Link conveyor with inserted rods. 4,709,807, 12-1-87, Cl. 198-853.000.

Poeschel, Eva: *See*—
Heide, Helmut; Etzkorn, Heinz-Werner; Poeschel, Eva; and Steinger, Helmut, 4,702,930, Cl. 427-2.000.

Poeschel, Juergen: *See*—
Francke, Erwin; Frie, Ulrich; and Poeschel, Juergen, 4,650,419, Cl. 434-16.000.

Poethkow, Joerg: *See*—
Schindler, Norbert; Nuesslein, Hans; Koeppelmann, Edgar; and Poethkow, Joerg, 4,704,212, Cl. 252-8.800.
Poetsch, Eike: *See*—
Eidenschink, Rudolf; Krause, Joachim; Hittich, Reinhard; Poetsch, Eike; Scheuble, Bernhard; Weber, Georg; and Pohl, Ludwig, 4,713,197, Cl. 252-299.610.
Praefcke, Klaus; Kohne, Bernd; Poetsch, Eike; and Herz, Claus P., 4,713,196, Cl. 252-299.010.
Poff, Charles R., Jr. Firearm bolt action and extractor. 4,653,210, 3-31-87, Cl. 42-16.000.
Poganski, John W. Trailer tongue handle. 4,645,224, 2-24-87, Cl. 280-47.170.
Pogany, Stefano A.: *See*—
Higuchi, Takeru; and Pogany, Stefano A., 4,677,131, Cl. 514-392.000.
Poggesi, Elena: *See*—
Cecchi, Roberto; Boigegrain, Robert; Bianchetti, Alberto; Poggesi, Elena; and Croci, Tiziano, 4,707,497, Cl. 514-647.000.
Poggi, Donald L.; Burgess, Ernest M.; Moeller, David E.; and Hittenberger, Drew A., to Model & Instrument Development Corporation. Prosthetic foot having a cantilever spring keel. 4,645,509, 2-24-87, Cl. 623-55.000.
Poggi, Mauro: *See*—
Corato, Renzo; Ganapini, Giulio; Meier, Hans-Anton; Poggi, Mauro; Rosso, Antonio; and Sanchioni, Sergio, 4,674,975, Cl. 432-11.000.
Poggi, Rene J.: *See*—
Plissonneau, Bernard P.; and Poggi, Rene J., 4,646,929, Cl. 220-19.000.
Poggi, Tatjana: *See*—
Krakkay, Tibor; Poggi, Tatjana; and Schubert, Ernst, 4,673,721, Cl. 526-329.300.
Krakkay, Tibor; Poggi, Tatjana; and Schubert, Ernst, 4,683,286, Cl. 525-329.100.
Poggio, Cesare: *See*—
Appiano, Silvano; Destefanis, Paolo; and Poggio, Cesare, 4,639,861, Cl. 364-200.000.
Poggioli, Paolo: *See*—
Swan, Jack C., Jr.; and Poggioli, Paolo, 4,681,606, Cl. 55-193.000.
Pogue, Glenn J., to Rotex, Inc. Screen cleaner for particle size analyzer. 4,702,826, 10-27-87, Cl. 209-237.000.
Pohedra, Joseph J.: *See*—
Beckwith, Paul B.; Bistarkey, Donald S.; Pohedra, Joseph J.; and Trimble, Donald E., 4,702,698, Cl. 434-2.000.
Pohjoiskalotti Oy: *See*—
Ikaheimo, Antero, 4,693,467, Cl. 272-52.000.
Pohjonen, Jukka I.: *See*—
Halonen, Heino T. K.; and Pohjonen, Jukka I., 4,673,326, Cl. 414-286.000.
Pohl, Claus: *See*—
Fruth, Rupert; Stemmer, Gottfried; and Pohl, Claus, 4,673,815, Cl. 250-548.000.
Mundt, Peter; Neuhold, Arnold; and Pohl, Claus, 4,685,785, Cl. 353-120.000.
Pohl, Daniel P.: *See*—
LaBrosse, Paul R.; and Pohl, Daniel P., 4,684,552, Cl. 428-4.000.
Pohl, Eric R.; and Osterholtz, Frederick D., to Union Carbide Corporation. Novel vulcanizable silane-terminated polyurethane polymers. 4,645,816, 2-24-87, Cl. 528-28.000.
Pohl, Eric R., to Union Carbide Corporation. Fatty ethenoid acylaminoorganosilicon compounds and their use in compositions for coating glass. 4,659,756, 4-21-87, Cl. 523-402.000.
Pohl, Eric R.; and Pepe, Enrico J., to Union Carbide Corporation. Novel room temperature vulcanizable polydiorganosiloxane compositions. 4,659,798, 4-21-87, Cl. 528-33.000.
Pohl, Eric R.; and Pepe, Enrico J., to Union Carbide Corporation. Novel room temperature vulcanizable polydiorganosiloxane compositions. 4,691,038, 9-1-87, Cl. 556-407.000.
Pohl, Hans C., to Krupp Koppers GmbH. Method for operating a coal gasifier. 4,655,793, 4-7-87, Cl. 48-210.000.
Pohl, Hans C. Method of cooling partial oxidation gas containing finely divided impurities and used for combustion in a combined gas steam turbine of a power plant. 4,697,413, 10-6-87, Cl. 60-39.020.
Pohl, Joerg: *See*—
Engel, Jurgen; Kleemann, Axel; Niemeyer, Ulf; Hilgard, Peter and Pohl, Joerg, 4,716,242, Cl. 558-81.000.
Pohl, Karl H., to ADC Telecommunications, Inc. Multigauge-multiwire insulation displacement terminal. 4,671,595, 6-9-87, Cl. 439-399.000.
Pohl, Karl H., to ADC Telecommunications, Inc. Electrical connector module with multiple connector housings. 4,688,872, 8-25-87, Cl. 439-404.000.
Pohl, Kenneth P. Method and apparatus for resecting a distal femoral surface. 4,703,751, 11-3-87, Cl. 128-92.0VW.
Pohl, Klaus Jurgen: *See*—
Deutsch, Reinhard; Pohl, Klaus Jurgen; and Masuch, Gerhard, 4,643,027, Cl. 73-432.100.
Pohl, Ludwig; Scheuble, Bernhard; Wachtler, Andreas; Hittich, Reinhard; and Fuss, Peter, to Merck Patent Gesellschaft mit beschrankter Haftung. Bicyclooctane derivatives. 4,707,295, 11-17-87. Cl. 252-299.620.
Pohl, Ludwig: *See*—
Eidenschink, Rudolf; Krause, Joachim; Hittich, Reinhard; Poetsch, Eike; Scheuble, Bernhard; Weber, Georg; and Pohl, Ludwig, 4,713,197, Cl. 252-299.610.
Pohl, Michael C.; Carr, Richard V. C.; and Sawicki, John E., to Air Products and Chemicals, Inc. Recovery of nitric acid from nitration spent acid by toluene extraction. 4,650,912, 3-17-87, Cl. 568-934.000.
Pohl, Peter: *See*—
Schulz, Dietmar; Pohl, Peter; and Johnson, Alfred H., 4,715,674, Cl. 350-96.210.
Pohl, Siegfried; Luhrsen, Ernst; Jeschke, Peter; Rave, Ortwin; Kienow, Martin; and Richter, Werner, to Didier-Werke AG. Refractory article suitable for casting molten metal. 4,634,685, 1-6-87, Cl. 501-100.000.
Pohl, Siegfried: *See*—
Tietze, Jurgen; Danguillier, Wilhelm; Thubeaville, Heinz; Pohl, Siegfried; and Muller, Friedrich, 4,708,196, Cl. 165-47.000.
Pohl, Walter; and Wetterling, Uwe, to Werner H. K. Peters Maschinenfabrik GmbH. One-sided corrugated cardboard machine. 4,643,706, 2-17-87, Cl. 493-463.000.
Pohl, Walter J., to General Electric Company. Self-calibrating control methods and systems for refrigeration systems. 4,653,285, 3-31-87, Cl. 62-126.000.
Pohl, Walter J.; McCarty, William J.; and Hicks, Frederick E., to General Electric Company. Single-sensor head pump defrost control system. 4,662,184, 5-5-87, Cl. 62-156.000.
Pohl, William C.: *See*—
Markley, Theodore J.; Teach, Ted L.; Hart, Edward E.; and Pohl, William C., 4,654,856, Cl. 372-65.000.
Pohl, Wolfgang: *See*—
Fauck, Gerhard; Pohl, Wolfgang; and Ulrich, Helmut, 4,666,217, Cl. 303-22.00R.
Pohl, Wolfgang D.: *See*—
Bednorz, Johannes G.; Gueret, Pierre L.; Nievergelt, Hermann E.; Ott, Hansperer; Pohl, Wolfgang D.; and Widmer, Daniel F., 4,643,627, Cl. 414-217.000.
Bednorz, Johannes G.; Denk, Winfried; Lanz, Martin; and Pohl, Wolfgang D., 4,684,206, Cl. 350-96.120.
Gimzewski, James K.; and Pohl, Wolfgang D., 4,668,865, Cl. 250-306.000.
Pohlar, Trent L. Wall framing system with an internal water deflector. 4,672,784, 6-16-87, Cl. 52-235.000.
Pohlenz, Elmer E., to Aluminum Company of America. Lined plastic closure. 4,658,976, 4-21-87, Cl. 215-252.000.
Pohlenz, Elmer E.: *See*—
Urmston, Hugh C.; and Pohlenz, Elmer E., 4,657,221, Cl. 249-175.000.
Pohler, Manfred; Henschler, Detlef; and Wittig, Richard, to VEB Kombinat Feinmechanische Werke Halle. Temperature stabilization of laser cavities. 4,675,874, 6-23-87, Cl. 372-33.000.
Pohlig, Wolf-Dieter: *See*—
Milsch, Ulrich; and Pohlig, Wolf-Dieter, 4,648,279, Cl. 73-861.170.
Pohlmann, Gunter: *See*—
Sieverding, Werner; Mettenbrink, Herbert; Pohlmann, Gunter; and Hackmann, Ludger, 4,708,267, Cl. 222-211.000.
Pohlmeyer, Wilhelm: *See*—
Willenberg, Heinrich; Pohlmeyer, Wilhelm; and Rudolph, Werner, 4,694,112, Cl. 568-842.000.
Pohlner, Erwin: *See*—
Bauerle, Hans; Peste, Hansgeorg; and Pohlner, Erwin, 4,682,489, Cl. 72-460.000.
Pohndorf, Peter J., to Cordis Corporation. Neural stimulating lead with fixation canopy formation. 4,658,835, 4-21-87, Cl. 128-785.000.
Pohndorf, Peter J., to Cordis Corporation. Suture sleeve assembly. 4,672,979, 6-16-87, Cl. 128-784.000.
Pohndorf, Peter J., to Cordis Corporation. Suture sleeve anchoring device. 4,683,895, 8-4-87, Cl. 128-784.000.
Pohrt, Juergen; Matern, Ruediger; Jenne, Helmut; Gausepohl, Hermann; and Gerberding, Karl, to BASF Aktiengesellschaft. Thermoplastic molding material. 4,647,621, 3-3-87, Cl. 525-71.000.
Pohsner, Gerhard: *See*—
Weddigen, Gert; Flatz, Josef; Schmidt, Conrad; Huber, Robert; and Pohsner, Gerhard, 4,670,511, Cl. 525-138.000.
Pohto, Gerald R.: *See*—
Mitchell, Thomas A.; Bennett, John E.; Brown, Claude M.; and Pohto, Gerald R., 4,708,888, Cl. 427-126.100.
Niksa, Marilyn J.; Pohto, Gerald R.; Lakatos, Leslie K.; Wheeler, Douglas J.; Niksa, Andrew J.; and Schue, Thomas J., 4,693,946, Cl. 429-27.000.
Poignant, Jean-Claude: *See*—
Wierzbicki, Michel; Hugon, Pierre; and Poignant, Jean-Claude, 4,711,885, Cl. 514-253.000.
Poijarvi, Jaakko I.: *See*—
Fugleberg, Sigmund P.; and Poijarvi, Jaakko I., 4,698,139, Cl. 204-112.000.
Poikolainen, Esko: *See*—
Kuusela, Juhani; Lopperi, Esko; Lummila, Markku; Saksala, Pertti; Salovaara, Esa; Suhonen, Tuomo; Perttina, Harri; Poikolainen, Esko; and Trygg, Hannu, 4,700,953, Cl. 277-38.000.
Point Blank Body Armor, Inc.: *See*—
Fritch, Donald P., 4,660,223, Cl. 2-2.500.
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Polansky, Carl, to RCA Corporation. Method of bonding a die to a substrate. 4,659,006, 4-21-87, Cl. 228-123.000.

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Cumming, William J., 4,634,773, Cl. 548-146.000.
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Zverina, Karel; Tluchor, Denek; Szabo, Josef; Polidor, Jaromir; and Kroupa, Petr, 4,639,570, Cl. 219-121.0PP.

Polifarma S.p.A.: *See*—
Sisto, Alessandro; Verdini, Antonio S.; Virdia, Antonino; De Luca, Giovanna; Di Stazio, Giovanni; and Politi, Vincenzo, 4,713,368, Cl. 514-18.000.

Polifroni, Nicholas: *See*--
Thulin, Robert; Ross, Robert E.; and Polifroni, Nicholas, 4,698,000, Cl. 425-133.100.

Polifroni, Nicholas R.: *See*—
Lee, Ralph D.; and Polifroni, Nicholas R., 4,699,047, Cl. 99-450.200.
Simelunas, William J.; and Polifroni, Nicholas R., 4,679,496, Cl. 99-450.200.

Poling, Denzil C. Hydraulic control valve. 4,691,618, 9-8-87, Cl. 91-326.000.

Poling, Denzil C. Bolt extracting tool. 4,713,990, 12-22-87, Cl. 81-53.200.

Poling, Don R. Kit for converting a motorcycle to an airborne vehicle. 4,657,207, 4-14-87, Cl. 244-2.000.

Poling, Mark E., to Spectra-Physics, Inc. Remote indicator for a laser alignment system. 4,653,910, 3-31-87, Cl. 356-152.000.

Poling, Ronald W., to General Electric Company. Electric circuit controlling device. 4,703,140, 10-27-87, Cl. 200-83.00P.

Polinsky, Samuel M.; Bierman, Larry W.; and Hempel, David A., to J. R. Simplot Co. Increased reduction of magnesium content by use of inorganic promoters during beneficiation of phosphate ores by flotation. 4,642,181, 2-10-87, Cl. 209-167.000.

Polis, Marjorie J.; and Husson, Alan L., to Westinghouse Electric Corp. Elevator system. 4,662,480, 5-5-87, Cl. 187-126.000.

Polischuk, Andrey, to Litton Systems, Inc. Overload protector. 4,635,297, 1-6-87, Cl. 455-217.000.

Politi, Vincenzo: *See*—
Sisto, Alessandro; Verdini, Antonio S.; Virdia, Antonino; De Luca, Giovanna; Di Stazio, Giovanni; and Politi, Vincenzo, 4 713,368, Cl. 514-18.000.

Politis, Demetrios T., and Licata, William H., to Environmental Research Institute of Michigan. Adaptive learning controller for synthetic aperture radar. 4,692,765, 9-8-87, Cl. 342-106.000.

Polivanov, Alexandr N.: *See*—
Fedorov, Svyatoslav N.; Egorova, Eleonora V.; Nanushyan, Sergei R.; Chernyshev, Evgeny A.; Spiridonov, Oleg P.; Benenson, Igor L.; Polivanov, Alexandr N.; Shapatin, Anatoly S.; and Karavaev, Alexandr A., 4,647,282, Cl. 623-4.000.

Polizzotti, Richard S.: *See*—
Murrell, Lawrence L.; Dispenziere, Nicholas C., Jr.; and Polizzotti, Richard S., 4,692,428, Cl. 502-254.000.

Poljak, Mark D, to United States of America, Navy. Battery tester. 4,659,994, 4-21-87, Cl. 324-426.000.

Polk Audio Inc.: *See*—
Polk, Matthew S.; and Campbell, Colin B., 4,638,505, Cl. 381-24.000.

Polk, Matthew S.; and Campbell, Colin B., to Polk Audio Inc. Optimized low frequency response of loudspeaker systems having main and sub-speakers. 4,638,505, 1-20-87, Cl. 381-24.000.

Polk, William E. Manual sheet separation system. 4,659,110, 4-21-87, Cl. 283-36.000.

Pollachek, Robert G., to RCA Corporation. Reference circuit with semiconductor memory array. 4 648,074, 3-3-87, Cl. 365-184.000.

Pollack, Alfred: *See*—
Goseberg, Walter; and Pollack, Alfred, 4,680,566, Cl. 336-181.000.

Pollack, Gordon P.: *See*—
Fuller, Clyde R.; Pollack, Gordon P.; Eklund, Robert H.; and Monahan, Dave, 4,659,426, Cl. 156-643.000.

Pollack, Jack, to Amtel, Inc. Offshore hydrocarbon production system 4,637,335, 1-20-87, Cl. 114-230.000.

Pollack, Jack, to Amtel, Inc. Detachable mooring and cargo transfer system. 4,645,467, 2-24-87, Cl. 441-4.000.

Pollack, Jack; and Mann, Tarlochan S., to Amtel, Inc. High pressure fluid swivel. 4,647,076, 3-3-87, Cl. 285-95.000.

Pollack, Jack, to Amtel, Inc. Articulated tower mooring system 4,666,339, 5-19-87, Cl. 405-202.000.

Pollack, Jack, to Amtel, Inc. Boom for single point mooring system 4,669,412, 6-2-87, Cl. 114-230.000.

Pollack, Jack; and Pabers, Richard F., to Amtel, Inc. Hose coupling mechanism. 4,699,191, 10-13-87, Cl. 141-279.000.

Pollack, Jack; and Pabers, Richard F., to Amtel, Inc. Fluid coupling system. 4,708,178, 11-24-87, Cl. 141-279.000.

Pollack, Robert L.; and Durst, Lawrence, to Commonwealth Medical Corporation of America. Method and composition for relieving pain. 4,639,465, 1-27-87, Cl. 514-419.000.

Pollack, Robert L., to Commonwealth Medical Corporation of America. Method and composition for increasing production of serotonin 4,650,789, 3-17-87, Cl. 514-23.000.

Pollack, Ronald M. Picture frame. 4,669,209, 6-2-87, Cl. 40-152.100.

Pollak, Elie: *See*—
Lewiner, Jacques; Charpak, Georges; and Pollak, Elie, 4,671,93[illegible] Cl. 324-457.000.

Pollak, Gerd, to L. & C. Steinmuller GmbH. Unit for guiding the flow of cold gas in steam generators of high-temperature reactors 4,694,893, 9-22-87, Cl. 165-104.340.

Pollak, Henry; and Wells, Gordon, to American Machine and Tool Company, Inc. Portable lathe. 4,658,681, 4-21-87, Cl. 82-6.00R.

Pollak, Henry M.; and Mauger, John W., to American Machine and Tool Company, Inc. Surface mounted power tool. 4,664,165, 5-12-87, Cl. 144-117.00R.

Pollak, Philip, Jr.; and Schubert, Keith E., to Pitney Bowes Inc. Postal mailing system having an adaptable postage meter. 4,682,541, 7-28-87, Cl. 101-91.000.

Pollak, Raimund: *See*—
Ettischer, Helmut; Ebner, Arno; Munz, Rolf; and Pollak, Raimund, 4,696,615, Cl. 414-114.000.

Pollard, Brian J., to Northern Telecom Limited. Power amplifier 4,703,500, 10-27-87, Cl. 379-252.000.

Pollard, Christopher A.: *See*—
Davis, Marvin B.; Konshak, Michael V.; and Pollard, Christopher A., 4,644,521, Cl. 369-291.000.

Pollard, David R.; and Goldbach, Robert H., to Motorola, Inc. Locking, adjustable waveguide shorting piston. 4,688,008, 8-18-87, Cl. 333-253.000.

Pollard, Geoffrey J.; and Baker, Roger C., to British Hydromechanics Research Association, The. Non-intrusive mixing of fluid. 4,685,811, 8-11-87, Cl. 366-275.000.

Pollard, Harvey B.; Ornberg, Richard; Banerjee, Dipak; Youdim, Moussa; Lelkes, Peter; and Heldman, Eli, to United States of America, Health and Human Services. Isolation and culture of adrenal medullary endothelial cells producing blood clotting factor VIII:C 4,670,394, 6-2-87, Cl. 435-240.000.

Pollard, Jean: *See*—
Blanc, Michel; Pollard, Jean; Marchand, Gerard; and Henri, Rene, 4,697,867, Cl. 350-96.100.

Pollard, John W., to Britax Weathershields Limited. Opening roof for a motor vehicle. 4,647,105, 3-3-87, Cl. 296-221.000.

Pollard, Lorne R.; and Tashiro, Donald K., to J. I. Case Company. Foldable and swivelable hopper-loading screw conveyor. 4,669,945, 6-2-87, Cl. 414-505.000.

Pollard, Morris, to American Biogenetic Sciences, Inc. Production of tissue plasminogen activator factor. 4,661,453, 4-28-87, Cl. 435-212.000.

Pollari, Theodore J., to Textron Inc. Self-priming diffuser type centrifugal pump. 4,637,778, 1-20-87, Cl. 415-53.00R.

Pollastro, Giovanni, to Riv-Skf Officine Di Villar Perosa S.p.A. Bearing ball spacing retainer. 4,702,627, 10-27-87, Cl. 384-526.000.

Pollen, Rudy W. J.: *See*—
Baggen, Constant P. M. J.; Driessen, Leonardus M. H. E.; Pollen, Rudy W. J.; and Vries, Lodewijk B., 4,683,572, Cl. 371-37.000.

Pollert, Georg, to Bergwerksverband GmbH. Process for the separation of the water resulting during the coking process into a small salt-rich fraction and a large salt-poor fraction. 4,710,302, 12-1-87, Cl. 210-696.000.

Pollich, Gerhard, to Heidelberger Druckmaschinen AG. Sheet feeder for a sheet-processing machine. 4,635,924, 1-13-87, Cl. 271-227.000.

Pollich, Gerhard, to Heidelberger Druckmaschinen AG. Feeding device for sheet processing machines. 4,635,925, 1-13-87, Cl. 271-235.000.

Pollich, Gerhard, to Heidelberger Druckmaschinen AG. Sheet delivery apparatus for printing machines. 4,693,462, 9-15-87, Cl. 271-183.000.

Pollich, Gerhard, to Heidelberger Druckmaschinen AG. Sheet feeder for rotary printing machines. 4,697,804, 10-6-87, Cl. 271-162.000.

Pollich, Gerhard, to Heidelberger Druckmaschinen AG. Device in the delivery of sheet-fed rotary printing machine for exhibiting curl formation on the leading edge of a delivered sheet. 4,702,468, 10-27-87, Cl. 271-195.000.

Pollich, Gerhard: *See*—
Jeschke, Willi; and Pollich, Gerhard, 4,702,469, Cl. 271-227.000

Pollicott, Ian D.: *See*—
Butters, Brian C. F.; and Pollicott, Ian D., 4,649,076, Cl. 428-361.000.
Polligkeit, Wolfgang: *See*—
Mesmer, Otto; Polligkeit, Wolfgang; Schiffer, Ernst-Uwe; Troger, Wolfgang; and Wolter, Andreas, 4,655,952, Cl. 252-88.000.
Pollock, David B. Process for nuclear hardening optics and product produced thereby. 4,685,778, 8-11-87, Cl. 350-600.000.
Pollock, Eugene N., to Nuclear Metals, Inc. Method and apparatus for producing green salt (UF_4) from uranium and uranium alloy pieces. 4,699,769, 10-13-87, Cl. 423-20.000.
Pollock, Eugene N., to Nuclear Metals, Inc. Method and apparatus for producing uranyl peroxide ($UO_4.2H_2O$) from uranium and uranium alloy pieces. 4,701,310, 10-20-87, Cl. 423-16.000.
Pollock, Ira G., to Tektronix, Inc. Digital integrated circuit propagation delay time controller. 4,641,048, 2-3-87, Cl. 307-591.000.
Pollock, Joha D.: *See*—
Turner, Norman L.; and Pollock, John D., 4,680,474, Cl. 250-492.200.
Pollock, Richard A.: *See*—
Wilson, Aaron W.; and Pollock, Richard A., 4,696,413, Cl. 221-13.000.
Pollock, Rodney E.: *See*—
Reba, Imants; and Pollock, Rodney E., 4,643,775, Cl. 134-15.000.
Pollock, Thomas J.: *See*—
Walfield, Alan M.; and Pollock, Thomas J., 4,652,628, Cl. 530-324.000.
Pollok, Peter: *See*—
Schmid, Anton; Tauschek, Georg; Sedlmeier, Andreas; and Pollok, Peter, 4,700,446, Cl. 29-159.200.
Pollow, Sheldon D.: *See*—
Zindler, Hugh A.; and Pollow, Sheldon D., 4,669,590, Cl. 192-17.00R.
Pollution Controls Industries, Inc.: *See*—
Herd, William H., Jr.; and Hansen, John W., 4,663,090, Cl. 261-41.300.
Polo, Ermes: *See*—
Bellotto, Carlo; Cimenti, Antonio; and Polo, Ermes, 4,636,164, Cl. 425-337.000.
Poloczek, Erwin: *See*—
Voggenreiter, Martin; Dietz, Rainer; and Poloczek, Erwin, 4,646,822, Cl. 165-166.000.
Poloni, Alfredo, to Danieli & C. Officine Meccaniche SpA. Straightening machines, and straightening machines thus improved. 4,641,511, 2-10-87, Cl. 72-160.000.
Poloni, Alfredo, to Danieli & C. Officine Meccaniche SpA. Labyrinth seal with pressurized sealing packing. 4,679,801, 7-14-87, Cl. 277-53.000.
Poloni, Alfredo; and Nonini, Geremia, to Danieli & C. Officine Meccaniche SpA. Procedure and device to feed a multiple-feed straightening machine automatically downstream of a cooling plate. 4,704,889, 11-10-87, Cl. 72-428.000.
Poloni, Alfredo; Drigani, Fausto; and Canzutti, Roberto, to Danieli & C.Officine Meccaniche SpA. Compensating device for rolling stands with rolls supported at only one end. 4,714,355, 12-22-87, Cl. 384-193.000.
Polonovski, Jean-Pierre: *See*—
Marbot, Roland; and Polonovski, Jean-Pierre, 4,675,651, Cl. 340-347.0AD.
Polonsky, Eli. Suture fusing and cutting apparatus. 4,662,068, 5-5-87, Cl. 30-124.000.
Polonsky, Vladimir M.: *See*—
Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Polonsky, Vladimir M.; Tischenko, Valentina A.; Titov, Mikhail I.; Bespalova, Zhanna D.; and Pekelis, Boris L., 4,698,419, Cl. 530-329.000.
Polosky, Charles T. Book or similar article hanging device. 4,711,419, 12-8-87, Cl. 248-225.200.
Polotti, Enzo. Universal grip device particularly for generic bottles and the like container. 4,667,359, 5-26-87, Cl. 7-151.000.
Polovsky, Stuart B.: *See*—
Smolin, Martin; and Polovsky, Stuart B., 4,687,843, Cl. 536-18.300.
Polska Akademia Nauk-Centrum Baden Molekularnych i Makromolekularnych: *See*—
Stec, Wojciech; Kinas, Ryszard; and Misiura, Konrad, 4,684,743, Cl. 558-81.000.
Polska Akademia Nauk-Instytut Chemii Organicznej: *See*—
Achmatowicz, Barbara; Daniewski, Andrzej R.; Marczak, Stanislaw; Pankowski, Jacek; and Wicha, Jerzy, 4,707,554, Cl. 549-214.000.
Polson, Gary R., to Strength, Tech, Inc. Barbell collar. 4,639,979, 2-3-87, Cl. 24-270.000.
Polster, Louis S. Hamburger press. 4,635,538, 1-13-87, Cl. 99-349.000.
Polster, Louis S. Food press. 4,702,159, 10-27-87, Cl. 99-349.000.
Polster, Peter: *See*—
Prost, Maurice; de Claviere, Michel; and Polster, Peter, 4,663,330, Cl. 514-312.000.
Polster, Walter: *See*—
Brunn, Klaus; and Polster, Walter, 4,649,558, Cl. 378-97.000.
Polstra, John D.: *See*—
Scott, Marshall H.; and Polstra, John D., 4,709,366, Cl. 371-20.000.
Polsun Manufacturing Corporation: *See*—
Irani, Andrew A.; Schulte-Ladbeck, Bernd H.; and Arani, Aspee A., 4,707,883, Cl. 16-110.00R.
Polvani, Robert S.: *See*—
Lashmore, David S.; Mullen, Jasper L.; Johnson, Christian E.; and Polvani, Robert S., 4,699,000, Cl. 73-81.000.
Poly Enterprises Plymouth Limited: *See*—
Burns, Roland S.; and Dove, Michael J., 4,664,052, Cl. 114-144.00E.
Poly Farms, Inc.: *See*—
Cox, Larry B.; Johnson, William C.; and Marpoe, Roland W., 4,653,553, Cl. 141-114.000.
Poly-John Enterprises Corp.: *See*—
Harding, George W., 4,637,299, Cl. 98-29.000.
Poly Oil Pump, Inc.: *See*—
Mason, Hilbur A., 4,653,989, Cl. 417-392.000.
Poly Processing Company, Inc.: *See*—
Carlin, Hervin A., Jr., 4,699,294, Cl. 220-465.000.
Polyak, Mark. Hydraulic brush for teeth and gums. 4,660,244, 4-28-87, Cl. 15-24.000.
Polyakova, Viktoria P.: *See*—
Savitsky, Evgeny M.; Goikhman, Mikhail S.; Khudyk, Petr M.; Chepkasov, Valery V.; Sulyagin, Valentin V.; Polyakova, Viktoria P.; Shatinsky, Viktor F.; Gorina, Nelli B.; and Rudkovsky, Evgeny M., 4,654,237, Cl. 427-431.000.
Polyblank, Alan H. Double opening lid. 4,634,011, 1-6-87, Cl. 215-6.000.
Polycast Technology Corporation: *See*—
Friedwald, David, 4,707,894, Cl. 24-459.000.
Polychrome Corp.: *See*—
Rowe, William; and Dooley, Thomas, 4,640,884, Cl. 430-165.000.
PolyCrystal Technologies Corp.: *See*—
Kober, Frederick P.; and Montefusco, Oscar V., 4,707,911, Cl. 29-623.500.
Polyden Pharmaceuticals Ltd.: *See*—
Ucher, Thomas C., 4,659,740, Cl. 514-773.000.
Polydrain, Inc.: *See*—
Williams, Barry C., 4,640,643, Cl. 404-4.000.
Polydyne Industries, Inc.: *See*—
Ramirez, Pedro, 4,706,970, Cl. 277-205.000.
Polygram GmbH: *See*—
Langowski, Horst-Christian; and Schmitz, Klaus, 4,658,392, Cl. 369-288.000.
Wengler, Rolf, 4,665,513, Cl. 369-54.000.
Polygram International Holding B.V.: *See*—
Duurland, Jozef M.; Bos, Sinnighe J.; and Kreeft, Hendrik K., 4,681,280, Cl. 242-199.000.
Polyhitech: *See*—
Jones, Graeme P., 4,701,134, Cl. 439-43.000.
Polymed Laboratories: *See*—
Saudagar, Abdul S., 4,670,313, Cl. 428-12.000.
Polymer Technology Corporation: *See*—
Ellis, Edward J.; and Ellis, Jeanne Y., 4,686,267, Cl. 526-245.000.
Polymetrics Corporation: *See*—
Frisch, Kurt C.; and Asnida, Kaneyoshi, 4,680,214, Cl. 428-107.000.
Polynorm, N.V.: *See*—
Metz, Laurens, 4,637,183, Cl. 52-217.000.
Polyonics Corporation: *See*—
Hoover, Merwin F.; Salamone, Ann B.; and Vandebult, Jan, 4,666,735, Cl. 427-43.100.
Polyplastics Co., Ltd.: *See*—
Takagaki, Hitohisa, 4,649,179, Cl. 525-400.000.
Takahashi, Katsuhiko, 4,654,413, Cl. 528-274.000.
Takahashi, Katsuhiko; and Sugita, Michiyuki, 4,692,480, Cl. 523-218.000.
Takahashi, Katsuhiko; and Tajima, Yoshihisa, 4,713,408, Cl. 524-161.000.
Uryu, Toshiyuki; and Kato, Takashi, 4,710,547, Cl. 525-437.000.
Yamawaki, Masami; Chino, Shuichi; Minamisawa, Tsuyoshi; and Nakamura, Masaaki, 4,661,570, Cl. 526-88.000.
Yanase, Yukimasa; and Okada, Tsuneyoshi, 4,649,172, Cl. 524-413.000.
Polysar Financial Services S.A.: *See*—
Biletch, Harry A.; Di Manno, Richard A.; and Gorka, Robert J., 4,680,337, Cl. 525-53.000.
Wietsma, Popke, 4,657,943, Cl. 523-216.000.
Polysar Limited: *See*—
Edwards, Douglas C.; and Crossman, James A., 4,659,754, Cl. 523-214.000.
Graham, Everett S., 4,680,321, Cl. 523-335.000.
Kent, Eric G., 4,713,133, Cl. 156-162.000.
Mallya, Prakash, 4,657,966, Cl. 524-747.000.
Pole, Ernest G.; and Carnell, David, 4,705,816, Cl. 523-132.000.
Thompson, Ronald J., 4,702,944, Cl. 427-389.800.
Timar, John; Mohammed, Sheikh A. H.; and Walker, John, 4,665,963, Cl. 152-504.000.
Von Hellens, Walter; Mohammed, Sheikh A. H.; and Hallman, Robert, 4,645,793, Cl. 524-518.000.
Polytechnic Institute of New York: *See*—
Narang, Subhash C.; and Attarwala, Shabbir, 4,663,269, Cl. 430-326.000.
Tesoro, Giuliana C.; Sastri, Vinod R.; and Narang, Subash C., 4,656,235, Cl. 526-262.000.
Polytex AG: *See*—
Schell, Ferenc, 4,687,241, Cl. 294-61.000.
Polytype AG: *See*—
Neuhaus, Hans, 4,710,358, Cl. 422-186.050.
Polzer, Bernhard; and Roemischer, Johann, to Deutsche Gardner-Denver GmbH. Method of tightening threaded fasteners. 4,685,050, 8-4-87, Cl. 364-152.000.

Pomagalski S.A.: *See*—
Bertrand, Jean-Jacques, 4,641,584, Cl. 104-173.200.
Bertrand, Jean-Jacques, 4,697,169, Cl. 340-540.000.
Brian, Rene, 4,640,197, Cl. 104-179.000.
Brochand, Max, 4,691,643, Cl. 104-202.000.
Lisa, Alphonse, 4,693,186, Cl. 105-329.100.
Rossignol, Robert, 4,662,285, Cl. 104-173.200.
Tarassoff, Serge, 4,641,585, Cl. 104-173.200.
Tarassoff, Serge, 4,669,389, Cl. 104-173.200.
Tarassoff, Serge, 4,699,064, Cl. 104-163.000.
Tarassoff, Serge, 4,712,486, Cl. 104-173.100.
Tauzin, Francis, 4,635,561, Cl. 105-329.100.
Tauzin, Francis, 4,693,033, Cl. 49-122.000.

Pomaibo, Paul: *See*—
Hardin, Roy T., Jr.; Pomaibo, Paul; and Scrabis, Charles M., 4,657,095, Cl. 177-132.000.
Scrabis, Charles M.; Mazza, Gregory E.; Golick, Leonard R.; and Pomaibo, Paul, 4,711,755, Cl. 376-260.000.
Scrabis, Charles M.; Mazza, Gregory E.; Golick, Leonard R.; and Pomaibo, Paul, 4,711,759, Cl. 376-284.000.

Pomatto, Robert P., Sr. Simultaneous AM and FM transmitter and receiver. 4,660,192, 4-21-87, Cl. 370-11.000.

Pomerantzeff, Oleg, to Eye Research Institute of Retina Foundation. Surgical ophthalmoscopes. 4,699,480, 10-13-87, Cl. 351-205.000.

Pomerantzeff, Oleg, to Eye Research Institute of Retina Foundation. Magnifying ophthalmoscope. 4,710,002, 12-1-87, Cl. 351-205.000.

Pomerene, James H.; Puzak, Thomas R.; Rechtschaffen, Rudolph N.; Rosenfeld, Philip L.; and Sparacio, Frank J., to International Business Machines Corporation. Pageable branch history table. 4,679,141, 7-7-87, Cl. 364-200.000.

Pomernacki, Charles L.: *See*—
Tunnell, George; Pomernacki, Charles L.; and Gregg, Jack P., 4,641,292, Cl. 367-198.000.

Pomeroy, Philip S.: *See*—
Martin, Jeffrey A.; and Pomeroy, Philip S., 4,664,103, Cl. 128-132.00D.

Pomeroy, Robert L. Method for detecting buried land mines by non-destructive means. 4,641,566, 2-10-87, Cl. 89-1.130.

Pomeroy, William F.: *See*—
Wilson, Robert B.; Pomeroy, William F.; and Sovey, Louis T., Jr., 4,661,117, Cl. 8-506.000.
Wilson, Robert B.; and Pomeroy, William F., 4,708,719, Cl. 8-580.000.

Pomidor, Patricia B.; and Ward, Carl E., to Chevron Research Company. Process for preparing substituted amino herbicides. 4,663,466, 5-5-87, Cl. 549-68.000.

Pomilia, Gino. Baseball training bat. 4,682,773, 7-28-87, Cl. 273-26.00B.

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Forni, Luigi, 4,653,302, Cl. 72-195.000.
Forni, Luigi, 4,715,206, Cl. 72-237.000.

Pominville, Douglas A., to Atlantic Richfield Company. Paint detackification method. 4,637,824, 1-20-87, Cl. 55-85.000.

Pommer, Ernst-Heinrich: *See*—
Buschmann, Ernst; Schuster, Ludwig; Goetz, Norbert; Pommer, Ernst-Heinrich; and Ammermann, Eberhard, 4,673,683, Cl. 514-317.000.
Graf, Hermann; Rentzea, Costin; Richarz, Winfried; Froehlich, Helmut; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,663,324, Cl. 514-247.000.
Habermann, Wolfgang; Pommer, Ernst-Heinrich; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Simmler, Werner; and Huber, Guenther, 4,670,360, Cl. 429-33.000.
Hagen, Helmut; Ziegler, Hans; Kohler, Rolf-Dieter; Pommer, Ernst-Heinrich; and Dressel, Jurgen, 4,699,983, Cl. 546-311.000.
Janssen, Bernd; Meyer, Norbert; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Kohlmann, Friedrich-Wilhelm; Wesenberg, Walter; and Heberle, Wolfgang, 4,670,454, Cl. 514-383.000.
Rentzea, Costin; Sauter, Hubert; Karbach, Stefan; Will, Wolfgang; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,678,798, Cl. 514-383.000.
Rentzea, Costin; Buschmann, Ernst; Himmele, Walter; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,708,960, Cl. 514-383.000.
Rieber, Norbert; Boehm, Heinrich; Pommer, Ernst-Heinrich; and Dressel, Juergen, 4,673,429, Cl. 71-27.000.
Roeser, Karl; Lauer, Manfred; Sauter, Hubert; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,639,447, Cl. 514-222.000.
Schirmer, Ulrich; Karbach, Stefan; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Steglich, Wolfgang; Schwalge, Barbara A. M.; and Anke, Timm, 4,709,078, Cl. 560-060.000.
Schulz, Guenter; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,678,504, Cl. 71-94.000.
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Pommer, Fredi; and Blume, Axel. Fuel saving apparatus. 4,664,089, 5-12-87, Cl. 123-585.000.

Pommer, Karl E., II, to GTE Communication Systems Corporation. Surge protected electronic switch for telephone voiceband circuits. 4,634,814, 1-6-87, Cl. 379-377.000.

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Pommier, Daniel: *See*—
Blineau, Joseph; Pommier, Daniel; and Thomas, Claude, 4,688,218, Cl. 370-106.000.

Pompe F.B.M. S.p.A.: *See*—
Maghenzani, Tersillo, 4,648,796, Cl. 415-215.000.

Pompei, Francesco; and Daya, Shiraz, to Exergen Corporation. Radiation detector having temperature readout. 4,636,091, 1-13-87, Cl. 374-124.000.

Pomper, Seymour; and Moore, Edward V., to Nabisco Brands, Inc. Preparation of free-flowing particulate yeast. 4,652,453, 3-24-87, Cl. 426-62.000.

Pompes Salmson: *See*—
Brunel, Roland; and Peu, Jean-Claude, 4,669,956, Cl. 415-201.000.

Pomplun, William S.; Popp, Robert L.; Woon, Paul A.; Schroth, Carl G.; and Stevens, Robert A., to Kimberly-Clark Corporation. Formation of elasticized portions of disposable garments and other articles. 4,663,106, 5-5-87, Cl. 264-230.000.

Pomplun, William S.: *See*—
Roland, David R.; Johnston, Jerry A.; and Pomplun, William S., 4,665,306, Cl. 219-388.000.

Pomponi, Edward A., Jr., to Binks Manufacturing Company. Air spray gun. 4,650,119, 3-17-87, Cl. 239-296.000.

Pomponio, Edward V.: *See*—
Wingler, William C.; and Pomponio, Edward V., 4,695,683, Cl. 200-38.00R.

Pomponio, Thomas F., to Ferronics, Inc. Electronic noise suppressor. 4,656,451, 4-7-87, Cl. 336-96.000.

Pomykacek, Josef: *See*—
Protiva, Miroslav; Jilek, Jiri; Cervena, Irena; Dlabac, Antonin; Valchar, Martin; and Pomykacek, Josef, 4,678,788, Cl. 514-254.000.

Ponce, Felix C. Reciprocating sander. 4,685,252, 8-11-87, Cl. 51-170.0TL.

Ponce, Felix C. Method of driving a reciprocating sander. 4,703,591, 11-3-87, Cl. 51-281.00R.

Poncelet, Andre ; Getti, Hyacinthe; and Faugouin, Michel, to Tecnor and Sa "PGF"Procede de Galvanisation de Fils. Process for treating conductive profiles, particularly metallic conductive wires, the installation for carrying said process into effect, and treated profiles so obtained. 4,714,626, 12-22-87, Cl. 427-49.000.

Poncelet, Denis; Coulon, Jean-Claude; Chaumette, Jacques, and Letourneur, Pierre, to Saint Gobain Vitrage. Glass for panoramic roof. 4,634,231, 1-6-87, Cl. 350-311.000.

Poncelet, Georges: *See*—
Anton, Octavian; Jacobs, Pierre; Poncelet, Georges; and Jacques, Phillippe, 4,689,315, Cl. 502-241.000.

Poncet, Bernard, to Videocolor. Process for the preparation of ferrous parts of a color television tube and furnace for operating such a process. 4,714,497, 12-22-87, Cl. 148-6.350.

Poncy, George W., to Steridyne Corporation. Antidecubitis cushion. 4,672,700, 6-16-87, Cl. 5-441.000.

Poncy, Richard P.; and Chrzanowski, Mathew, to Steridyne Corporation. Chair with lift assistance mechanism. 4,690,457, 9-1-87, Cl. 297-337.000.

Pond, Richard J., to Smith International, Inc. Position indicator for valves. 4,635,901, 1-13-87, Cl. 251-355.000.

Pond, Richard J., to R J Pond Limited. Pipe connection joints. 4,697,829, 10-6-87, Cl. 285-18.000.

Pond, Richard J.: *See*—
Best, Michael J. A.; Jones, Richard H.; Hynes, Joseph H.; Pond, Richard J.; and Gordon, Colin R., 4,695,190, Cl. 405-169.000.

Pond, Robert J. Magnetoacoustic proximity sensor. 4,709,210, 11-24-87, Cl. 324-207.000.

Pongor, Sandor: *See*—
Cerami, Anthony; Pongor, Sandor; and Brownlee, Michael, 4,705,845, Cl. 530-305.000.

Pongratz, Leonhard; Degener, Ulrich; Spoetzl, Markus; and Kotai, Ferenc, to Krauss-Maffei A.G. Loading device for large caliber weapons. 4,674,396, 6-23-87, Cl. 89-47.000.

Pongratz, Leonhard; Kotai, Ferenc; and Spotzl, Markus, to Krauss-Maffei A.G. Device for the centering retention of ammunition in an ammunition receiver. 4,677,894, 7-7-87, Cl. 86-45.000.

Ponikwia, Edward F.; Dixon, William E.; and Stottmann, Richard L., to Kitchenaid, Inc. Feed tube protector retaining apparatus. 4,674,690, 6-23-87, Cl. 241-37.500.

Poninski, Carl L., to Motor Appliance Corporation. Battery charger circuit. 4,672,295, 6-9-87, Cl. 320-23.000.

Ponjee, Johannes J.; and Verwijlen, Christiaan J. A., to U.S. Philips Corporation. Method of providing a metal mirror on a surface manufactured from an acrylate synthetic resin or a methacrylate synthetic resin. 4,639,382, 1-27-87, Cl. 427-162.000.

Ponn, Frederick H.: *See*—
Roberts, Michael G.; Ponn, Frederick H.; and Bolen, Charles E., 4,654,385, Cl. 524-69.000.

Ponn, Timothy R.: *See*—
Bleuel, Eric P.; and Ponn, Timothy R., 4,662,968, Cl. 156-250.000.

Ponomar Sulepov, Eugenio. Surgical instrument for transjugular venous thromboectomy. 4,669,464, 6-2-87, Cl. 128-303.00R.

Ponomareva, Natalya A.: *See*—
Arutjunian, Norair S.; Kornena, Elena P.; Kazarian, Robert V.; Ponomareva, Natalya A.; Redko, Grigory V.; Sakhno, Lidia T.; and Zhidkova, Irina S., 4,713,155, Cl. 204-155.000.

Ponpipom, Mitree M.: *See*—
Chang, Michael N.; Hwang, San-Bao; Ponpipom, Mitree M.; and Bugianesi, Robert L., 4,704,462, Cl. 549-466.000.
Hagmann, William K.; Durette, Philippe L.; and Ponpipom, Mitree M., 4,652,553, Cl. 514-26.000.
Hagmann, William K.; and Ponpipom, Mitree M., 4,652,637, Cl. 536-5.000.

Pons, Claude, to Videocolor. Apparatus for adjusting the position of a deflector on a television tube, particularly a color tube. 4,638,219, 1-20-87, Cl. 315-368.000.
Pons, Claude, to Videocolor. Method and apparatus for adjusting the static convergence and purity of color television tubes. 4,641,062, 2-3-87, Cl. 315-368.000.
Pons, Claude: *See*—
De Paolis, Cesare; Giannantonio, Guiseppe; and Pons, Claude, 4,636,694, Cl. 315-368.000.
Pons, Gerard: *See*—
Lanne, Maurice; Pons, Gerard; Petit, Jacques; and Pauly, Francis, 4,663,658, Cl. 358-101.000.
Ponsford, Roger J.; Pearson, Michael J.; and Finch, Stephen C., to Beecham Group p.l.c. Antibacterial agents, their preparation and use. 4,647,558, 3-3-87, Cl. 514-210.000.
Ponsford, Roger J.; Pearson, Michael J.; and Finch, Stephen C., to Beecham Group p.l.c. 3S-formamido azetidinone antibacterial agents, their preparation and use. 4,678,782, 7-7-87, Cl. 514-210.000.
Ponsford, Roger J.; Pearson, Michael J.; and Finch, Stephen C., to Beecham Group p.l.c. 3-formamido azetidinone antibacterial agents, their preparation and use. 4,704,385, 11-3-87, Cl. 514-210.000.
Ponsioen, Ysbrand P. J. M.; and Kemper, Johannes A., to Holec Systemen en Componenten B.V. Three-phase isolating disconnector for use in a high-voltage switchgear arrangement. 4,644,442, 2-17-87, Cl. 361-341.000.
Ponstingl, Michael J.; Trump, Walter N.; and Kessler, Robert C., to Custom Sample Systems, Inc. Optical and electronically compared absorptiometer. 4,637,730, 1-20-87, Cl. 356-411.000.
Pont-a-Mousson S.A.: *See*—
Bucher, Claude; and Lagabe, Andre, 4,645,243, Cl. 285-47.000.
Gourmel, Yves; and Pierrel, Michel, 4,690,199, Cl. 164-421.000.
Gourmel, Yves; and Pierrel, Michel, 4,693,297, Cl. 164-447.000.
Souplet, Robert; and Sutter, Jean, 4,638,976, Cl. 251-173.000.
Pontagnier, Henri; Creuzet, Marie-Helene; Feniou, Claude; Guichard, Francoise; and Prat, Gisele, to Societe Cortial, S.A. 2-(4-Phenylpiperazinylethyl) anilines. 4,668,681, 5-26-87, Cl. 514-255.000.
Pontagnier, Henri: *See*—
Creuzet, Marie-Helene; Feniou, Claude; Guichard, Francoise; Pontagnier, Henri; and Prat, Gisele, 4,698,343, Cl. 514-255.000.
Pontani, Bernd: *See*—
Lahr, Helfrid; and Pontani, Bernd, 4,650,640, Cl. 376-261.000.
Lahr, Helfrid; and Pontani, Bernd, 4,678,624, Cl. 376-261.000.
Lahr, Helfrid; and Pontani, Bernd, 4,680,159, Cl. 376-272.000.
Ponte, John R.; Steffens, James J.; and Estreicher, Herbert, to Du Pont de Nemours, E. I., and Company. Herbicidal 2 methyl-4-phosphinylquinnolinium hydroxide inner salts. 4,666,499, 5-19-87, Cl. 71-86.000.
Pontech Gesellschaft fur Technologische Entwicklungen mbH: *See*—
Garbade, Rolf; Kahle, Hans J.; Schreier, Hans H.; and Jabbusch, Wolfgang, 4,645,018, Cl. 177-6.000.
Ponteggi Est S.p.A.: *See*—
Prevedini, Cesare, 4,680,906, Cl. 52-223.00L.
Pontevivo, Michele: *See*—
Marraccini, Antonio; Carlini, Filippo M.; Pasquale, Antonio; and Pontevivo, Michele, 4,684,408, Cl. 106-300.000.
Ponticelli, Robert J. System for mounting radio equipment in vehicles. 4,699,341, 10-13-87, Cl. 248-27.100.
Ponticello, Gerald S.: *See*—
Baldwin, John J.; and Ponticello, Gerald S., 4,642,311, Cl. 514-316.000.
Baldwin, John J.; and Ponticello, Gerald S., 4,665,094, Cl. 514-546.000.
Baldwin, John J.; Christy, Marcia E.; and Ponticello, Gerald S., 4,677,115, Cl. 514-432.000.
Ponticello, Ignazio S.; and Otocka, Edward P., to Eastman Kodak Company. Composition formed from gelatin and polymer of vinyl monomer having a primary amine addition salt group. 4,689,359, 8-25-87, Cl. 524-23.000.
Ponticello, Ignazio S.; and Otocka, Edward P., to Eastman Kodak Company. Photographic silver halide element containing new adhesion promoting polymeric materials and polyester support. 4,695,532, 9-22-87, Cl. 430-533.000.
Pontiff, Thomas M.; and Collins, Frederick H., to Valcour Incorporated. Moldable silane-crosslinked polyolefin foam beads. 4,702,868, 10-27-87, Cl. 264-50.000.
Pontillon, Jean: *See*—
Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, Herve; and Kamoun, Ahmed, 4,679,498, Cl. 99-483.000.
Chaveron, Henri; Pontillon, Jean; Billon, Michel; Adenier, Herve; and Kamoun, Ahmed, 4,713,256, Cl. 426-631.000.
Pontius, Klaus; Settinger, Manfred; and Oster, Lothar, to Klockner Ferromatik Desma GmbH. Device for attaching soles directly to uppers. 4,678,343, 7-7-87, Cl. 366-349.000.
Pontoizeau, Daniel: *See*—
Doublet, Daniel; Pynnonen, Arja; and Pontoizeau, Daniel, 4,658,804, Cl. 126-391.000.
Pontoppidan, Eskild, to Flemming Hvidt Mobelarkitektfirma A/S. Spring system having a variable spring characteristic. 4,653,736, 3-31-87, Cl. 267-70.000.
Pontoppidan, Knud: *See*—
Herbig, Henning; Heinze, Horst; Drachenberg, Franz; and Pontoppidan, Knud, 4,642,652, Cl. 343-915.000.
Pontow, Bernd: *See*—
Wenning, Hans-Peter; Friedrich, Joachim; and Pontow, Bernd, 4,666,397, Cl. 431-160.000.
Pony Industries, Inc.: *See*—
Hansen, Gerald D., 4,698,161, Cl. 210-701.000.
Reiter, Ralph H., 4,688,801, Cl. 273-218.000.
Ponza, Larry. Batting practice device. 4,699,377, 10-13-87, Cl. 273-26.00E.
Ponza, Larry J. Tennis and baseball dispensing apparatus. 4,676,504, 6-30-87, Cl. 273-26.00D.
Ponzi, Ugo: *See*—
Arduini, Carlo; Barboni, Renato; Castellani, Antonio; Ponzi, Ugo; Bielli, Paolo; and Contu, Salvatore, 4,701,765, Cl. 343-897.000.
Ponzo, Charles. Crab trap. 4,654,997, 4-7-87, Cl. 43-102.000.
Ponzo, Michael F.: *See*—
Sproul, Robert W.; and Ponzo, Michael F., 4,682,128, Cl. 333-139.000.
Pool, Daniel L., to Minnesota Mining and Manufacturing Co. Masking machine. 4,667,891, 5-26-87, Cl. 242-75.400.
Pool, Daniel L., to Minnesota Mining and Manufacturing Company. Paper converting machine. 4,695,006, 9-22-87, Cl. 242-56.300.
Pool, James L., to Lisle Corporation. Tool for repair of Rzeppa type constant velocity universal joint. 4,634,166, 1-6-87, Cl. 294-103.100.
Pool, James L., to Lisle Corporation. Front wheel drive boot removal tool. 4,713,869, 12-22-87, Cl. 29-275.000.
Pool, James L., to Lisle Corporation. Circuit tester. 4,716,365, 12-29-87, Cl. 324-158.00P.
Pool, James R. Cutting apparatus with automatic feed. 4,709,610, 12-1-87, Cl. 83-876.000.
Pool, Jerry S., to Leggett & Platt, Incorporated. Insulated shipping container. 4,682,708, 7-28-87, Cl. 220-460.000.
Pool Patent- und Lizenzverwaltungs-GmbH: *See*—
Peters, Franz J., 4,707,942, Cl. 42-77.000.
Poole, Alan: *See*—
Sandbach, Rex H.; and Poole, Alan, 4,694,776, Cl. 118-500.000.
Poole, Denis: *See*—
Munzinger, Karl; Peter, Jorg; Plessl, Andreas; Poole, Denis; and Vit, Jan G., 4,689,717, Cl. 361-335.000.
Poole, John D., to Westinghouse Brake and Signal Co., Ltd. Brake control system. 4,692,867, 9-8-87, Cl. 364-426.000.
Poole, John W., to Plasma Materials. Plasma jet torch having converging anode and gas vortex in its nozzle for arc constriction. 4,656,330, 4-7-87, Cl. 219-121.0PR.
Poole, Joseph J., to RCA Corporation. Parallel distributed signal amplifiers. 4,701,716, 10-20-87, Cl. 330-43.000.
Poole, Lynn A.: *See*—
Hoover, Dale H.; and Poole, Lynn A., 4,653,034, Cl. 367-131.000.
Poole, Michael J.: *See*—
Plessner, Karl W.; and Poole, Michael J., 4,709,983, Cl. 350-96.230.
Poole, William E., Jr.: *See*—
Talwar, Ashok K.; Poole, William E., Jr.; and Steinkolk, Richard B., 4,683,447, Cl. 331-177.00V.
Poor, David D. S., to Meadowbrook Industries, Inc. Work carrier for use in computer printing. 4,708,503, 11-24-87, Cl. 400-531.000.
Poore, Bernard B., to Deere & Company. Fuel injection control valve. 4,681,073, 7-21-87, Cl. 123-206.000.
Poore, Bernard B.: *See*—
Wohlford, William P.; and Poore, Bernard B., 4,645,274, Cl. 305-47.000.
Poore, John W.: *See*—
Thornander, Hans T.; Poore, John W.; Sholder, Jason A.; Thacker, James R.; and Amundson, David C., 4,712,555, Cl. 128-419.0PG.
Poorman, Thomas J.; Grissom, David; and Carome, Edward F., to Western Geophysical Company of America. Optical system for detecting acoustic wave energy in a fluid medium. 4,688,200, 8-18-87, Cl. 367-149.000.
Poorten, Henri V., to Andromaque, S.A. Process of simultaneously printing and electroforming ceramic articles. 4,708,781, 11-24-87, Cl. 204-180.900.
Poortman, Boodewijn J.: *See*—
Neven, Jozef H. M.; Poortman, Boodewijn J.; Tromp, Wouter T.; and Stevens, Udo, 4,715,233, Cl. 73-871.120.
Poortvliet, Robert J.: *See*—
Mitchell, Terry L.; and Poortvliet, Robert J., 4,709,517, Cl. 52-36.000.
Popa, Frank D., to Westinghouse Electric Corp. Nuclear fuel pellet containing gadolinia. 4,678,629, 7-7-87, Cl. 376-419.000.
Popadiuk, Nicholas M.: *See*—
Dorband, Glen C.; Liland, Alfred; Menezes, Edgar; Steinheuser, Peter; Popadiuk, Nicholas M.; and Failla, Stephen J., 4,671,280, Cl. 128-334.00C.
Pope, Brian G., to Dow Chemical Company, The. Production of arylacetaldehydes. 4,650,908, 3-17-87, Cl. 568-427.000.
Pope, Brian G.: *See*—
Najvar, Daniel J.; Pope, Brian G.; and Loeffler, Norman R., 4,714,722, Cl. 523-218.000.
Pope, Charles R., to Pope, Daniel C. Stock for restraining an animal. 4,655,173, 4-7-87, Cl. 119-103.000.
Pope, Daniel C.: *See*—
Pope, Charles R., 4,655,173, Cl. 119-103.000.
Pope, Daniel F.: *See*—
Lundberg, Krister; Tidstam, Goran; and Pope, Daniel F., 4,641,969, Cl. 356-343.000.
Pope, J. Lee, Jr.; and Resden, Ronald E., to Mansfield Scientific, Inc. Balloon catheter. 4,715,378, 12-29-87, Cl. 128-344.000.
Pope, Louis M.: *See*—
Bunting, John A.; Pope, Louis M.; and Clark, James L., 4,713,286, Cl. 428-323.000.
Pope, Paul B., to McConnell Dowell Constructors Limited. Joining means and method for joining metal members. 4,640,532, 2-3-87, Cl. 285-41.000.

Pope, Ralph E. Rotatable building. 4,694,620, 9-22-87, Cl. 52-65.000.
Pope, Urban. Tool for lifting doors and panels. 4,712,819, 12-15-87, Cl. 294-92.000.
Pope, Willard I.: *See*—
Henry, Daniel P.; LaTorre, Fredrick E.; and Pope, Willard I., 4,714,255, Cl. 273-249.000.
Pope, William T. Liquid heating system. 4,641,590, 2-10-87, Cl. 110-341.000.
Popek, Marc H.; and Springer, Kenneth D., to Harris Corporation. Driver unit for a laser Q-switch. 4,675,872, 6-23-87, Cl. 372-10.000.
Popelka, Frank E. Hay bale wrapping machine. 4,641,484, 2-10-87, Cl. 53-399.000.
Popescu, Francine. Galvanic bath for the electrodeposition of bright zinc-cobalt alloy. 4,643,805, 2-17-87, Cl. 204-44.200.
Popescu, Mircea C.; Weiner, Alan L.; and Carpenter-Green, Sharon S., to Liposome Company, Inc., The. Liposome-gel compositions. 4,708,861, 11-24-87, Cl. 424-1.100.
Popeski, Fred; and Pierce, Keith. Flushing booth target apparatus. 4,702,480, 10-27-87, Cl. 273-384.000.
Poplawski, Judith A.; and Andersen, David J., to Color Arts, Inc. Portable device for modeling vehicle graphics. 4,713,012, 12-15-87, Cl. 434-373.000.
Pople, John R.: *See*—
Beard, Thomas W.; Pople, John R.; and Wright, Terence D., 4,668,940, Cl. 340-521.000.
Popov, Entcho N.; Apostolov, Rumen K.; Georgiev, Georgi A.; Katzarov, Hristo B.; and Penkov, Julii S., to DSO "ELPROM". Rotor with permanent magnets for an electrical machine. 4,658,167, 4-14-87, Cl. 310-156.000.
Popov, Entcho N.; Stanilov, Krestyo A.; Apostolov, Rumen K.; Dundarov, Pantcho G.; Radkov, Peyu V.; Aderski, Pentcho K.; and Georgiev, Georgi A., to DSO "Elprom". Permanent magnet rotor for an electrical machine. 4,695,754, 9-22-87, Cl. 310-156.000.
Popov, George D.: *See*—
Edwards, John R.; Popov, George D.; and Philbrick, John B., 4,703,376, Cl. 360-105.000.
Popova, Roza A.: *See*—
Maximov, Gennady K.; Brusnikin, Arkady F.; Belonosov, Vladimir I.; Popova, Roza A.; Fux, Vladimir S.; Kagan, Vladimir M.; Uralskaya, Silvia L.; and Orlova, Nadezhda P., 4,702,069, Cl. 57-417.000.
Popova, Todorka F.: *See*—
Zrantchev, Ivaylo A.; and Popova, Todorka F., 4,663,693, Cl. 361-143.000.
Popovic, Mikulas: *See*—
Gallo, Robert C.; and Popovic, Mikulas, 4,647,773, Cl. 435-239.000.
Gallo, Robert C.; and Popovic, Mikulas, 4,652,599, Cl. 435-239.000.
Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan, Mangalasseril G., 4,708,818, Cl. 435-5.000.
Popovic, Radivoje; and Berchier, Jean-Luc, to LGZ Landis & Gyr Zug AG. Method and circuit for the temperature compensation of a hall element. 4,634,961, 1-6-87, Cl. 323-368.000.
Popovic, Radivoje; Solt, Katalin; and Berchier, Jean-Luc, to LGZ Landis; and Gyr Zug AG. Buried Hall element. 4,673,964, 6-16-87, Cl. 357-27.000.
Popovic, Radivoje; Baltes, Heinrich P.; and Zajc, Tomislav, to LGZ Landis; and Gyr Zug Ag. Magnetic field sensor comprising two component layer transistor of opposite polarities. 4,677,380, 6-30-87, Cl. 324-252.000.
Popovic, Radivoje, to LGZ Landis & Gyr Zug AG. Electrical circuit which is linearly responsive to changes in magnetic field intensity. 4,683,429, 7-28-87, Cl. 324-225.000.
Popovic, Radivoje; and Baltes, Heinrich P., to LGZ Landis & Gyr Zug AG. Sensitive magnetotransistor magnetic field sensor. 4,700,211, 10-13-87, Cl. 357-27.000.
Popovic, Stojan. Suction device. 4,660,249, 4-28-87, Cl. 15-341.000.
Popovic, Zoran D.; Sprague, Robert A.; and Connell, G. A. Neville, to Xerox Corporation. Pedestal-type microlens fabrication process. 4,689,291, 8-25-87, Cl. 430-321.000.
Popovich, Paul D.: *See*—
Newell, Alton S.; Newell, Alton S., Jr.; Popovich, Paul D.; and Ewing, John R., 4,650,129, Cl. 241-73.000.
Popovich, Robert P.; and Moncrief, Jack W. Peritoneal artificial lung. 4,661,092, 4-28-87, Cl. 604-26.000.
Popovich, Robert P.; and Moncrief, Jack W. Peritoneal membrane plasmapheresis. 4,673,385, 6-16-87, Cl. 604-28.000.
Popovitch, Dragolyoub, to Interdyne Service Corporation. Safing and arming device. 4,662,279, 5-5-87, Cl. 102-233.000.
Popovitch, Dragolyoub, to Interdyne Service Corporation. Safing and arming device and method. 4,699,058, 10-13-87, Cl. 102-275.000.
Popowski, James J.; and Goldstein, Richard, to Questron, Inc. Color converter. 4,709,230, 11-24-87, Cl. 340-703.000.
Popp, Franz-Wolfgang: *See*—
Potz, Franz; Popp, Franz-Wolfgang; and Oswald, Wolfgang, 4,657,154, Cl. 215-273.000.
Popp, Gerhard: *See*—
Gotzenbrucker, Oswald; and Popp, Gerhard, 4,680,615, Cl. 357-55.000.
Popp, Joachim, to MTU Motoren-und Turbinen-Union Munchen GmbH. Method and structure for preventing the ignition of titanium fires. 4,642,027, 2-10-87, Cl. 415-177.000.
Popp, Joachim, to MTU Motoren-und Turbinen-Union Munchen GmbH. Apparatus for preventing the spreading of titanium fires in gas turbine engines. 4,659,282, 4-21-87, Cl. 415-177.000.
Popp, Robert L.: *See*—
Pomplun, William S.; Popp, Robert L.; Woon, Paul A.; Schmitt, Carl G.; and Stevens, Robert A., 4,663,106, Cl. 264-230.000.
Sallee, Lorry F.; and Popp, Robert L., 4,640,726, Cl. 156-85.000.
Popp, Walter: *See*—
Meissner, Ralph; and Popp, Walter, 4,714,887, Cl. 324-322.000.
Popp, Wayne A. Fire extinguisher safety pin tag holder. 4,658,9[illegible] 4-21-87, Cl. 169-75.000.
Poppe, Dag: *See*—
Oen, Sverre; Poppe, Dag; and Tronsli, Sverre N., 4,695,935, Cl. 363-21.000.
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Poppe, Martin C.: *See*—
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Porcher, Pierre O. Ski boot. 4,702,022, 10-27-87, Cl. 36-119.000.
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Poret, Mark; and McKinley, Jeanne, to Intel Corporation. In-circuit emulator. 4,674,089, 6-16-87, Cl. 371-25.000.
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Porowski, Jan S., to O'Donnell & Associates, Inc. Vibration free tubular apparatus and process for making same. 4,662,434, 5-5-87, Cl. 165-69.000.
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Portavideo International, Inc.: *See—*
Thrush, Ted K., 4,669,001, Cl. 360-33.100.
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Portela, Luis S., to Union Explosivos Rio Tinto, S.A. Process for obtaining potassium nitrate from potassium chloride and nitric acid. 4,668,495, 5-26-87, Cl. 423-395.000.
Portelli, Gene B.: *See—*
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Portenhauser, Rudolf; and Bartl, Knut, to Boehringer Mannheim GmbH. Control or calibration serum for lipid diagnosis. 4,701,417, 10-20-87, Cl. 436-13.000.
Porteous, Don D.; and Valle, Ornan, to Van R Dental Products, Inc. High strength dental impression composition. 4,648,906, 3-10-87, Cl. 106-35.000.
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Mikulich, Michael A.; Burton, John H.; and Porter, Christopher H., 4,651,721, Cl. 128-79.000.
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Porter, David R.; Bowen, James H.; and Holland, John M., to ITT Electro Optical Products, a Division of ITT Corporation. Synchronous, asynchronous, and data rate transparent fiber optic communications link. 4,694,504, 9-15-87, Cl. 455-608.000.
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Schroeder, Edward A., 4,650,188, Cl. 273-1.50R.
Porter, Frederick J.; and Pidsosny, Richard A., to Ford Motor Company. Bi-directional data transfer circuit that is directionally responsive to the impedance condition of an associated input/output port of a microcomputer. 4,703,198, 10-27-87, Cl. 307-473.000.
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Porter, George M. Log splitter. 4,653,558, 3-31-87, Cl. 144-193.00A.
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Porter, John F., to Bay Mills Limited. Facing for plastic foamed construction insulation board. 4,640,864, 2-3-87, Cl. 428-334.000.
Porter, John R. Crop harvesting and soil tilling apparatus. 4,694,641, 9-22-87, Cl. 56-328.00R.
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Porter, Julian. Multilayer protection system. 4,678,692, 7-7-87, Cl. 428-78.000.
Porter, Randall A.; and Reed, Larry E., to Phillips Petroleum Company. Antifoulants for thermal cracking processes. 4,666,583, 5-19-87, Cl. 208-48.0AA.
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Porter, Randall A.; and Reed, Larry E., to Phillips Petroleum Company. Antifoulants for thermal cracking processes. 4,687,567, 8-18-87, Cl. 208-48.0AA.
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Porter, Rick A.; and Hoernle, Hans R., to United Merchants & Manufacturers Inc. Fire barrier fabrics. 4,690,859, 9-1-87, Cl. 428-251.000.
Porter, Robert M. Portable sanitary facility. 4,653,125, 3-31-87, Cl. 4-301.000.
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Porter, Stuart C.; and Woznicki, Edward J., to Colorcon, Inc. Maltodextrin coating. 4,643,894, 2-17-87, Cl. 424-35.000.
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Porter, Stuart C.; Woznicki, Edward J.; Grillo, Susan M.; and D'Andrea, Louis F., to Colorcon, Inc. Enteric film-coating compositions. 4,704,295, 11-3-87, Cl. 427-3.000.
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Porter, William F., to USG Acoustical Products Company. Melt flow control valve. 4,670,032, 6-2-87, Cl. 65-1.000.
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Porter, William H. Roof sandwich panel juncture running with the pitch. 4,671,038, 6-9-87, Cl. 52-586.000.
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Oudet, Claude, 4,707,677, Cl. 335-284.000.
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Portex, Inc.: *See—*
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Portfolio, Donald C.: *See—*
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Portman, Joe L., Jr.; and Margraf, David J. Piezoelectric weighing device. 4,697,657, 10-6-87, Cl. 177-210.0FP.
Portmann, Jacques; and Aroues, Marc, to Thomson-CSF. Solid-state photosensitive device. 4,647,955, 3-3-87, Cl. 357-24.000.
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Portnoy, Norman A.; and Avery, Larry P., to A. E. Staley Manufacturing Company. Starch derivatives and methods of making using same. 4,716,186, 12-29-87, Cl. 524-50.000.
Portnoy, Robert C., to Exxon Chemical Patents Inc. Anionic copolymers for improved control of drilling fluid rheology. 4,680,128, 7-14-87, Cl. 252-8.511.
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Portnoy, Vladimir, to American Hospital Supply Corp. Bi-concave small incision intraocular lens. 4,704,122, 11-3-87, Cl. 623-6.000.
Portoghese, Philip S.; and Lipkowski, Andrzej W., to University of Minnesota, Regents of the. Substituted pyrroles with opioid receptor activity. 4,649,200, 3-10-87, Cl. 546-26.000.
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Portugall, Michael: *See—*
Tesch, Helmut; Portugall, Michael; Stutz, Herbert; and Heinz, Gerhard, 4,665,150, Cl. 528-98.000.
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Porubcan, Linda S., to Ortho Pharmaceutical Corporation. Rioprostil-PVP complex. 4,681,759, 7-21-87, Cl. 424-80.000.
Porubcan, Randolph S.: *See—*
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Porzky, Ludwig, to General Signal Corporation. Method for manufacturing an electrical heating unit with serpentine heating elements. 4,669,181, 6-2-87, Cl. 29-611.000.
Poschet, Klaus, to Schaltbau GmbH. Repeat lock and inhibitor for starters of combustion engines. 4,659,883, 4-21-87, Cl. 200-43.030.
Pose, Wolfgang. Dental care instrument. 4,682,584, 7-28-87, Cl. 128-1.300.
Poser, Richard G., to A. H. Robins Company, Incorporated. Transdermal treatment for pain and inflammation with 2-amino-3-aroylbenzeneacetic acids, salts and esters. 4,683,242, 7-28-87, Cl. 514-539.000.
Posey, John, to Baxter Travenol Laboratories, Inc. Former for form, fill and seal packaging machine. 4,710,157, 12-1-87, Cl. 493-213.000.
Posey, John L.; and Schmidt, Josef, to Baxter Travenol Laboratories, Inc. Replaceable knife and holder. 4,708,045, 11-24-87, Cl. 83-604.000.
Posey, John T., to J. T. Posey Company. Sleeved jacket restraining device. 4,685,454, 8-11-87, Cl. 128-134.000.
Posey, John T. Method of attaching tube to a tube holder. 4,707,906, 11-24-87, Cl. 29-453.000.
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Posh, David R. Methods and apparatus for accurately completing pre-printed forms. 4,658,366, 4-14-87, Cl. 364-523.000.
Posin, Thomas; and Lawson, Daniel D., to Optical Radiation Corporation. Ultraviolet radiation absorbing intraocular lens. 4,636,212, 1-13-87, Cl. 623-6.000.
Position Orientation Systems, Ltd.: *See—*
Hansen, Per K., 4,642,786, Cl. 364-559.000.
Hansen, Per K., 4,653,102, Cl. 381-92.000.
Positive Action Tool Western Limited: *See—*
McIlvride, Garry, 4,655,284, Cl. 166-84.000.
Positive Connections, Inc.: *See—*
Fromberg, John P., 4,711,461, Cl. 280-494.000.
Posma, Bonne W. Four quadrant control of series motors. 4,639,647, 1-27-87, Cl. 318-247.000.
Pospich, Gunther; and Gutte, Richard, to Hoechst Aktiengesellschaft. Hot-melt adhesives of partially saponified vinyl ester copolymers. 4,678,832, 7-7-87, Cl. 525-60.000.
Pospisal, Gary L.; and Beier, John K. Wave-dampening apparatus for a waterbed. 4,663,788, 5-12-87, Cl. 5-450.000.
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Pospischil, Reinhard, to Siemens Aktiengesellschaft. Self-synchronizing descrambler. 4,663,501, 5-5-87, Cl. 178-22.170.
Poss Design Limited: *See—*
Poss, Werner, 4,638,954, Cl. 241-74.000.
Poss, Dieter: *See—*
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Possanza, Genus J.: *See—*
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Posselt, Klaus: *See—*
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Posseme, Gilles, to Thomson-CSF. Goniotelemetry system. 4,652,881, 3-24-87, Cl. 367-125.000.
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Piper, William W.; and Possin, George E., 4,704,623, Cl. 357-23.700.
Possley, Glen G.; and Wilson, Earl C., to Texas Instruments Incorporated. Programmable read-only-memory element with polycrystalline silicon layer. 4,692,787, 9-8-87, Cl. 357-59.000.
Posso, Patrick P. P., to Gefitec S.A. Drawer for a storage cabinet. 4,639,052, 1-27-87, Cl. 312-333.000.
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Post Brothers Construction Co.: *See—*
Post, Charles R., 4,691,785, Cl. 172-212.000.
Post, Charles R., to Post Brothers Construction Co. Reversible plow and carriage. 4,691,785, 9-8-87, Cl. 172-212.000.
Post, Friedhelm, to Alpha Maschinenbau AG. Bending device for the production of formed parts consisting of wire or strip sections. 4,708,009, 11-24-87, Cl. 72-442.000.
Post, Hans; Ratzel, Dieter; Brunner, Peter; and Knuttel, Bertold, to Bruker Medizintechnik G.m.b.H. Method for recording the nuclear magnetic resonance for use in VNMR tomography. 4,694,249, 9-15-87, Cl. 324-309.000.
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Radwanski, Fred R.; Lau, Jark C.; and Post, James L., 4,701,294, Cl. 264-518.000.
Post, Lothar; and Schneider, Bernhard, to Rheinmetall GmbH. Arrangement for rapidly stopping an automatic weapon having an external drive. 4,683,799, 8-4-87, Cl. 89-11.000.
Post Machinery, Inc.: *See—*
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Post, Martin F. M.; Sie, Swan T.; and Sudholter, Ernst J. R., to Shell Oil Company. Process for the preparation of hydrocarbons. 4,640,766, 2-3-87, Cl. 208-111.000.
Post, Martin F. M.: *See—*
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Thake, Roy C., 4,635,787, Cl. 198-603.000.
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Heac, Glenn D., Jr.; and Postal, Jeffrey J., 4,700,641, Cl. 111-85.000.
Postbeschild, John W., to Smiths Industries Public Limited Company. Warm-air hand drying installations. 4,665,630, 5-19-87, Cl. 34-54.000.
Postema, Gerrit B.; and Schiffman, Howard G., to Raytheon Company. Digital monopulse for tracking radar. 4,646,093, 2-24-87, Cl. 342-151.000.
Posterick, Barry L.: *See—*
Brady, Patrick K.; Chen, Cecilia S.; Posterick, Barry L.; and Stewart, Gilbert M., 4,653,043, Cl. 370-13.000.
Postius, Stefan; Herter, Rolf; Morsdorf, Peter; Schickaneder, Helmut; Szelenyi, Istvan; and Ahrens, Kurt H., to Ludwig Heumann & Co. GmbH. Diamine derivatives and pharmaceutical preparations containing these compounds. 4,656,180, 4-7-87, Cl. 514-316.000.
Postius, Stefan: *See—*
Herter, Rolf; Schickaneder, Helmut; Morsdorf, Peter; Postius, Stefan; Szelenyi, Istvan; and Ahrens, Kurt H., 4,666,921, Cl. 514-326.000.
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Postle, Stephen R.; and Barber, Roy P., to Ciba-Geigy AG. Method of monitoring temperature. 4,643,588, 2-17-87, Cl. 374-160.000.
Postle, Stephen R.; Elton, Peter J.; and Gregory, David P., to Ciba-Geigy AG. Diagnostic strips. 4,649,026, 3-10-87, Cl. 422-56.000.

Postle, Stephen R.; Elton, Peter J.; Gregory, David P.; and Butcher, Janice, to Ciba-Geigy AG. Diagnostic strip. 4,668,359, 5-26-87, Cl. 204-182.700.

Postler, Gunter: *See*—
Kratz, Bernhard; and Postler, Gunter, 4,704,965, Cl. 102-226.000.

Postlewait, Lester B.: *See*—
Wilhelmson, Jack L.; and Postlewait, Lester B., 4,673,300, Cl. 374-182.000.

Postma, Lambertus: *See*—
Bril, Thijs W.; Dekker, Pieter; Postma, Lambertus; and Witmer, Cornelis H. M., 4,651,249, Cl. 360-119.000.

Postma, Pieter; and van Vliet, Johannes A. J. M., to U.S. Philips Corporation. Electrodeless low-pressure discharge lamp. 4,661,746, 4-28-87, Cl. 315-248.000.

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Houkes, Henk; Postma, Pieter; and Van Veghel, Andreas C., 4,710,678, Cl. 315-39.000.

Postonen, Arne; and Bergstrom, Henry, to Postonen, Arne. Apparatus for cleaning hard surfaces. 4,654,916, 4-7-87, Cl. 15-50.00C.

Postron Corp.: *See*—
Johnson, Terry W.; Harms, Daryl E.; and Curl, Ricky L., 4,695,880, Cl. 358-86.000.

Postupack, Andrew. Dual stage press. 4,646,555, 3-3-87, Cl. 72-453.030.

Potapov, Ivan N.; Styrkin, German D.; Gremyakov, Ivan P.; and Sheikh-Ali, Alexei D., to Moskovsky Institut Stali I Splavov. Pilger mill stanc. 4,660,400, 4-28-87, Cl. 72-214.000.

Potapov, Jury F.: *See*—
Baldenko, Dmitry F.; Bezlepkin, Nikolai P.; Vadetsky, Jury V.; Gusman, Moisei T.; Potapov, Jury F.; and Semenets, Valery I., 4,711,006, Cl. 29-156.40R.

Potash Corporation of Saskatchewan Mining Limited: *See*—
Vance, James B., 4,649,524, Cl. 367-13.000.

Potcner, Jayne E.: *See*—
Schoener, Glenn C.; Hess, Susan V.; and Potcner, Jayne E., 4,647,347, Cl. 204-37.600.

Potest, Tommy L.; and Trimmer, William S. N., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Lightwave component package. 4,688,885, 8-25-87, Cl. 350-96.200.

Potel, Gerd; and Buchholz, Karl-Heinz, to MAN Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Vertically adjustable emergency support of a car body. 4,638,742, 1-27-87, Cl. 105-199.300.

Potel, Gerd: *See*—
Mohacsi, Sandor; Potel, Gerd; and Buchholz, Karl-Heinz, 4,665,835, Cl. 105-199.200.

Potember, Richard S.; Poehler, Theodore O., Jr.; and Cowan, Dwaine O., to Johns Hopkins University, The. Electrical organic thin film switching device switching between detectably different oxidation states. 4,652,894, 3-24-87, Cl. 357-8.000.

Potember, Richard S.; and Poehler, Theodore O., to Johns Hopkins University, The. Multistate optical switching and memory using an amphoteric organic charge transfer material. 4,663,270, 5-5-87, Cl. 430-495.000.

Potember, Richard S.; and Poehler, Theodore O., to Johns Hopkins University, The. Enhanced optically sensitive medium using organic charge transfer materials to provide reproducible thermal/optical erasure. 4,684,558, 8-4-87, Cl. 430-269.000.

Potente, Daniel F.: *See*—
Potente, John E.; and Potente, Daniel F., 4,638,521, Cl. 15-111.000.

Potente, John E.; and Potente, Daniel F. Oral cleaning device. 4,638,521, 1-27-87, Cl. 15-111.000.

Potenza, Marcello: *See*—
Di Vita, Pietro; and Potenza, Marcello, 4,703,488, Cl. 372-44.000.

Potenziani, Ernest, II: *See*—
Leupold, Herbert A.; Potenziani, Ernest, II; and Clarke, John, 4,692,732, Cl. 335-302.000.

Potenziala, Robert J. Coating apparatus with automatic trough control and seam passage. 4,644,900, 2-24-87, Cl. 118-670.000.

Potenziala, Robert J. Apparatus and method for uniformly coating an irregular web. 4,677,002, 6-30-87. Cl. 427-356.000.

Potenziani, Frederick D.: *See*—
Engelbrecht, Filluppus T.; Potgieter, Frederick D.; Smith, Cecil R.; and Helmig, Michael A., 4,660,286, Cl. 30-276.000.

Potgieter, Lambertus A.; Grootentraast, Johannes P.; and Verdonschot, Johannes F. J., to Oce-Nederland B.V. Image-forming apparatus. 4,631,562, 12-8-87, Cl. 355-16.000.

Potier, Michel, to Valeo. Oil-radiator-containing water box for a motor vehicle heat exchanger. 4,665,972, 5-19-87, Cl. 165-76.000.

Potier, Michel, to Valeo. Heat exchanger of the tube bank type, in particular for an automotive vehicle. 4,682,650, 7-28-87, Cl. 165-173.000.

Potier, Michel, to Valeo. Heat exchanger, in particular for a motor vehicle, having a rigid connection between a bundle of tubes and a header box and perforated plate assembly. 4,705,104, 11-10-87, Cl. 165-149.000.

Potin, Philippe: *See*—
Defaeger, Roger; Pagniez, Guy; and Potin, Philippe, 4,693,876, Cl. 423-300.000.

Potter, Prosper L. Means and methods for erecting a work platform over the deck of a structure. 4,560,680, 4-28-87, Cl. 182-36.000.

Potthoff, Otto J., to EHV-Weidmann Industries, Inc. Support system for electrical cables. 4,643,370, 2-17-87, Cl. 248-49.000.

Potocnik, Vinko: *See*—
Boivin, Richard F.; Huni, Jean-Paul R.; and Potocnik, Vinko, 4,683,047, Cl. 204-243.00M.

Potocnjak, Tomislav. Apparatus for supporting and transporting heavy loads. 4,676,539, 6-30-87, Cl. 294-67.400.

Potoczky, Joseph B. Method for centrifugal spray molding of thin-walled structures. 4,687,531, 8-18-87, Cl. 156-245.000.

Pott, Richard, to Aerotex Hochleistungsfaser GmbH. Method of manufacturing a shape from a composite material. 4,647,326, 3-3-87, Cl. 156-77.000.

Pottebaum, Kenneth L., to Magnetic Peripherals Inc. Quiet centrifugal fan. 4,662,830, 5-5-87, Cl. 417-424.000.

Potter, Charles; Bell, Ronald F.; and Tosill, John M., to Go-Jo Industries, Inc. Dispenser having a roller for squeezing material from a tube. 4,715,517, 12-29-87, Cl. 222-181.000.

Potter, Curtis N., to Microelectronics and Computer Technology Corporation. Electrical interconnect support system with low dielectric constant. 4,681,655, 7-21-87, Cl. 156-632.000.

Potter, Curtis N.; and Kroger, Harry, to Microelectronics and Computer Technology Corporation. Planarization of a layer of metal and anodic aluminum. 4,681,666, 7-21-87, Cl. 204-15.000.

Potter, David J.: *See*—
Millar, Colin A.; Talbott, David; Potter, David J.; and Wood, Thomas D. S., 4,667,862, Cl. 225-2.000.

Potter, David O.: *See*—
Lombardi, Steven A.; and Potter, David O., 4,642,479, Cl. 307-141.000.
Lombardi, Steven A.; and Potter, David O., 4,656,634, Cl. 371-68.000.

Potter, Douglas S. Bough to tree trunk connection for artificial tree. 4,634,613, 1-6-87, Cl. 428-20.000.

Potter, James L.: *See*—
Juhl, Roger L.; Potter, James L.; and Polemenakos, Sotiros C., 4,714,736, Cl. 524-608.000.

Potter, Jerry D., to United States of America, Energy. Pushrod assembly. 4,645,639, 2-24-87, Cl. 376-260.000.

Potter, Lawrence A.; and Sgro, James, to Biosearch Medical Products, Inc. Stylet. 4,659,328, 4-21-87, Cl. 604-170.000.

Potter, Michael: *See*—
Chapman, Victor B.; and Potter, Michael, 4,650,320, Cl. 356-71.000.

Potter, Raymond G., to Du Pont de Nemours, E. I., and Company. Laminated arm composite centrifuge rotor. 4,701,157, 10-20-87, Cl. 494-16.000.

Potter, Robert L.: *See*—
Piereth, Richard J.; Potter, Robert L.; and Williams, John R., 4,677,609, Cl. 370-60.000.

Potter, Roger A. Positive lock mechanism for moving board. 4,639,003, 1-27-87, Cl. 280-5.240.

Potter, Ronald W.; and Adcock, James L., to Hewlett-Packard Company. Noise corrected pole and zero analyzer. 4,654,808, 3-31-87, Cl. 364-553.000.

Potter, Ronald W., to Hewlett-Packard Company. Noise corrected pole and zero analyzer. 4,658,367, 4-14-87, Cl. 364-553.000.

Potter, Troy J. Ventless liquid recovery system for pressurized gas lines. 4,637,440, 1-20-87, Cl. 141-65.000.

Potter, William D.; Kiamil, Sinan B.; and White, Nicholas D., to Smith and Nephew Associated Companies p.l.c. Bandages, components thereof and use. 4,655,202, 4-7-87, Cl. 128-90.000.

Potter, William D.; Kiamil, Sinan B.; and White, Nicholas D., to Smith and Nephew Associated Companies p.l.c. Bandages, components thereof and use. 4,672,956, 6-16-87, Cl. 128-90.000.

Potter, William D.: *See*—
Rawlings, David A.; and Potter, William D., 4,657,006, Cl. 128-156.000.

Potter, William R.: *See*—
Dougherty, Thomas J.; Potter, William R.; and Weishaupt, Kenneth R., 4,649,151, Cl. 514-410.000.

Potter, William S., Jr. Outboard motor mounting device. 4,708,087, 11-24-87, Cl. 114-352.000.

Potter, Wilson. Top and bottom bedsheet combination nonconfining to the feet of a tall person. 4,658,454, 4-21-87, Cl. 5-497.000.

Potters Industries, Inc.: *See*—
Braun, Rudolf K., 4,643,753, Cl. 65-21.300.
Dejaiffe, Robert, 4,677,022, Cl. 428-312.600.
Fuchs, Alfred E., 4,682,992, Cl. 55-279.000.

Potters, Michel; and Bancon, Georges. Procedure and device for gripping parcels. 4,635,988, 1-13-87, Cl. 294-64.100.

Potterton International Limited: *See*—
Gregory, Mark, 4,679,728, Cl. 237-1.00R.

Pottharst, Jurgen: *See*—
Zondler, Rolf; and Pottharst, Jurgen, 4,702,559, Cl. 350-331.00R.

Potthast, Dennis J.: *See*—
Gnaedinger, Donald J.; and Potthast, Dennis J., 4,634,307, Cl. 403-194.000.

Potthast, Lynn R.: *See*—
Hamilton, Gene; Hawkins, Gale; and Potthast, Lynn R., 4,635,992, Cl. 296-37.600.

Pottmeyer, Wayne G.: *See*—
Tippins, George W.; Dunn, Lawrence P.; and Pottmeyer, Wayne G., 4,658,363, Cl. 364-472.000.

Pottorff, Earl T. Self-sharpening hole punch for plastic bags. 4,653,372, 3-31-87, Cl. 83-689.000.

Potts, Gerald R.; and Ryder, John C., to G. R. Potts Associates, Inc. High speed tire uniformity testing device. 4,691,564, 9-8-87, Cl. 73-146.000.

Potts, John T., Jr.: *See—*
Neer, Robert M.; Potts, John T., Jr.; and Slovik, David M., 4,698,328, Cl. 514-12.000.

Potts, Kenneth F., to Keystoker, Inc. Automatic coal stoker. 4,662,290, 5-5-87, Cl. 110-109.000.

Potts, Lanny L., to Tri-tech, Inc. Treadmill exerciser. 4,687,195, 8-18-87, Cl. 272-69.000.

Potts, Lanny L. Stair climbing exercise apparatus. 4,708,338, 11-24-87, Cl. 272-70.000.

Potucek, Frank R., to Duo-Fast Corporation. Fastener strip. 4,684,022, 8-4-87, Cl. 206-347.000.

Potukuchi, Janaki R.: *See—*
Assal, Francois T.; Berman, Arnold L.; and Potukuchi, Janaki R., 4,637,017, Cl. 370-104.000.

Potvin, Clement: *See—*
Pelletier, Jean; Tanguay, Jacques; and Potvin, Clement, 4,650,017, Cl. 180-9.100.

Potvin, David E.: *See—*
Gabriel, Paul K.; Potvin, David E.; and Potvin, James R., 4,674,030, Cl. 364-184.000.

Potvin, Francois. Goalkeeper glove. 4,700,404, 10-20-87, Cl. 2-16.000.

Potvin, James R.: *See—*
Gabriel, Paul K.; Potvin, David E.; and Potvin, James R., 4,674,030, Cl. 364-184.000.

Potwora, William E.: *See—*
Strom, Stephen A.; Schnuelle, Kenneth W.; and Potwora, William E., 4,642,607, Cl. 340-310.00A.

Potz, Franz; Popp, Franz-Wolfgang; and Oswald, Wolfgang, to Deutsche Gesellschaft fur Wiederaufarbeitung von Kernbrennstoffen mbH. Container having a latchable cover. 4,657,154, 4-14-87, Cl. 215-273.000.

Potzsch, Georg. Track system for a passenger-accommodating vehicle as part of a rollercoaster. 4,693,183, 9-15-87, Cl. 104-55.000.

Potzsch, Werner: *See—*
Graef, Kurt; Axt, Egon; Wirtz, Hans-Peter; Lauscher, Friedrich; Potzsch, Werner; Korfer, Peter; Sastrarahardja, Paulus; Croonen, Werner; and Serf, Josef, 4,649,763, Cl. 74-763.000.

Pouchard, Fernand. Ventilating duct system. 4,686,891, 8-18-87, Cl. 98-36.000.

Pouderoux, Pierre: *See—*
Alias, Pascal; Lacoste, Olivier; Marjollet, Jacques; and Pouderoux, Pierre, 4,671,214, Cl. 122-488.000.

Pouey, Michel, to Centre National de la Recherche Scientifique. Monochromator with a telecentric dispersive lens. 4,673,292, 6-16-87, Cl. 356-334.000.

Pouget, Jacques; Lipovac, Vincent; and de Mauduit, Yves, to Borden, Inc. Method of working leather for the uppers of leather footwear. 4,705,586, 11-10-87, Cl. 156-242.000.

Pouillard, Jean: *See—*
Coppens, Christian; Perron, Gilbert; and Pouillard, Jean, 4,685,100, Cl. 370-58.000.

Pouilliart, Roger V.; and Van Hecke, Francis C. Process and apparatus for the production of ammonium nitrate. 4,645,656, 2-24-87, Cl. 423-396.000.

Pouit, Christian; and Guern, Rene . Method and equipment for picking up antenna patterns in near-fields. 4,661,820, 4-28-87, Cl. 342-351.000.

Poujois, Robert, to Commissariat a l'Energie Atomique. Process for producing a matrix of electronic components. 4,676,761, 6-30-87, Cl. 445-3.000.

Poujois, Robert: *See—*
Bisotto, Sylvette; Blanc, Jean-Philippe; Bodin, Bernard; and Poujois, Robert, 4,677,594, Cl. 365-240.000.

Poulain, Guy: *See—*
Dien, Rene; and Poulain, Guy, 4,650,719, Cl. 428-422.800.

Poulain, Marcel: *See—*
Lucas, Jacques; Matecki, Marc; Poulain, Michel; and Poulain, Marcel, 4,647,545, Cl. 501-30.000.
Maze, Gwenael; Carree, Jean-Yves; and Poulain, Marcel, 4,661,413, Cl. 428-432.000.

Poulain, Marcel J.; Poulain, Michel A.; and Maze, Gwenael A. Fluoride glasses. 4,666,870, 5-19-87, Cl. 501-40.000.

Poulain, Michel: *See—*
Lucas, Jacques; Matecki, Marc; Poulain, Michel; and Poulain, Marcel, 4,647,545, Cl. 501-30.000.

Poulain, Michel A.: *See—*
Poulain, Marcel J.; Poulain, Michel A.; and Maze, Gwenael A., 4,666,870, Cl. 501-40.000.

Poulette, Fernand; and Vezina, Jean-Claude. Mold assembly for installing a gasket in the peripheral wall of an opening in a wall. 4,650,149, 3-17-87, Cl. 249-11.000.

Poulhes, Marie-Andree; Lafaille, Jean-Pierre; Pourrat, Jacques; and Sanchez, Victor, to Rhone-Poulenc Recherches. Electrophoretic fractionation apparatus. 4,655,898, 4-7-87, Cl. 204-299.00R.

Poulin, Benoit L., to Essex Group, Inc. Method of making and applying ethylene-propylene diene terpolymer texturized heat shrinkable tubing. 4,705,657, 11-10-87, Cl. 264-22.000.

Poulin, Benoit L.: *See—*
Levine, Herbert R.; Gerrato, Stephen G.; and Poulin, Benoit L., 4,661,314, Cl. 264-508.000.

Poulin, Bernard, to Glaenzer Spicer. Transmission device in particular for a driving wheel of a motor vehicle. 4,698,046, 10-6-87, Cl. 464-115.000.

Poulin, Fernand H. Security device for thermostat. 4,663,951, 5-12-87, Cl. 70-168.000.

Poulin, Suzanne C. M.: *See—*
Brink, Satya S.; Baines, John H.; and Poulin, Suzanne C. M., 4,715,628, Cl. 292-19.000.

Poulin, Ted M.: *See—*
Elmore, Carl L.; Poulin, Ted M.; and Barrett, Mark D., 4,638,859, Cl. 165-101.000.

Poulin, Yvan. Drive mechanism. 4,666,026, 5-19-87, Cl. 192-141.000.

Poulissen, Josephus H. F. M.: *See—*
Khoe, Giok D.; Poulissen, Josephus H. F. M.; and De Vries, Henricus M., 4,671,609, Cl. 350-96.180.

Poullain, Michel; and Marcuard, Alain, to LMT Radio Professionnelle. Device for eliminating low frequency noise from a transmission system, in particular 1/f noise in a homodyne radar receiver. 4,709,237, 11-24-87, Cl. 342-203.000.

Poulos, Stephen G., to General Motors Corporation. Symmetric manifold. 4,664,075, 5-12-87, Cl. 123-52.00M.

Poulsen, Bo, to AGA AB. Filling of acetylene cylinders. 4,657,059, 4-14-87, Cl. 141-83.000.

Poulsen, Jorgen: *See—*
Peschardt, Preben; and Poulsen, Jorgen, 4,660,735, Cl. 220-276.000.

Poupaert, Jacques: *See—*
Dumont, Pierre; and Poupaert, Jacques, 4,713,390, Cl. 514-389.000.

Pour, Diana C.: *See—*
Gould, Fred L.; Pour, Diana C.; and Villani, Michael G., 4,676,995, Cl. 424-195.100.

Pourarian, Faiz: *See—*
Wallace, William E.; and Pourarian, Faiz, 4,663,143, Cl. 423-644.000.

Pouring, Andrew A., to Sonex Research, Inc. Method and apparatus for disposal of toxic wastes by combustion. 4,681,072, 7-21-87, Cl. 123-193.00P.

Pourprix, Michel: *See—*
Burghoffer, Patrick; Pourprix, Michel; and Poussier, Patrick, 4,640,140, Cl. 73-863.220.

Pourrat, Jacques: *See—*
Poulhes, Marie-Andree; Lafaille, Jean-Pierre; Pourrat, Jacques; and Sanchez, Victor, 4,655,898, Cl. 204-299.00R.

Pourre, Jean-Louis: *See—*
Aucouturier, Jeanne; Leboutet, Hubert; and Pourre, Jean-Louis, 4,682,114, Cl. 328-67.000.

Pousar, Kurt, to Oy Wartsila Ab. Rigid place mat. 4,691,955, 9-8-87, Cl. 294-142.000.

Pouskouleli, George: *See—*
Demopoulos, George P.; Pouskouleli, George; and Prud'Homme, Pierre J. A., 4,654,145, Cl. 210-638.000.

Poussier, Patrick: *See—*
Burghoffer, Patrick; Pourprix, Michel; and Poussier, Patrick, 4,640,140, Cl. 73-863.220.

Poutignat, Yves: *See—*
Gissinger, Patrick; and Poutignat, Yves, 4,690,630, Cl. 425-236.000.

Poutrait-Morin: *See—*
Brunet, Patrice, 4,643,721, Cl. 604-191.000.

Poux, Jean P., to Thomson-CSF. Method of processing the sum and difference signals of a radar of the monopulse type for estimating the parasite phase introduced between these signals by the ultrahigh frequency formation circuits of the sum and difference channels. 4,713,666, 12-15-87, Cl. 342-152.000.

Povzhitkov, Moysey M.: *See—*
Clark, Robin D.; and Povzhitkov, Moysey M., 4,672,071, Cl. 514-356.000.

Pow, Eric G., to Novacorp International Consulting Ltd. Pipe bend restrictor. 4,647,255, 3-3-87, Cl. 405-168.000.

Pow-R Tools Corporation: *See—*
Adams, Joseph S.; and Branston, Paul G., 4,712,379, Cl. 60-632.000.

Powell, Bert L., Jr.: *See—*
Powell, Richard O.; and Powell, Bert L., Jr., 4,658,870, Cl. 141-236.000.

Powell, Brian D.; and Spring, David J., to Graviner Limited. Detection of fires and explosions. 4,694,172, 9-15-87, Cl. 250-339.000.

Powell, David R.; and Patel, Vithal K., to Rowell Laboratories. Pharmaceutical article of manufacture comprising a bisulfite stabilized aqueous solution of 5-aminosalicylic acid and method. 4,657,900, 4-14-87, Cl. 514-166.000.

Powell, David R.; and Patel, Vithal K., to Redi-Rowell, Inc. Solid pharmaceutical formulations for slow, zero order release via controlled surface erosion: expanded range. 4,690,824, 9-1-87, Cl. 424-468.000.

Powell, Dennis W.: *See—*
Albright, Jay D.; Powell, Dennis W.; and Dusza, John P., 4,654,343, Cl. 514-248.000.

Powell, Harry: *See—*
Wilkins, David R. G.; Brooker, Reginald D.; Walker, Roger; and Powell, Harry, 4,709,630, Cl. 101-93.220.

Powell, Harry, Jr. Accurate weight sizing. 4,660,665, 4-28-87, Cl. 177-145.000.

Powell, Homer M.: *See—*
Curry, Bill P.; Jones, John H.; Seiber, Brian L.; Price, Lynwood L.; Powell, Homer M.; and Kiech, Earl L., 4,679,939, Cl. 356-336.000.

Powell, Jack R.; and Nation, Melvin S., to International Jensen Incorporated. Multiple speaker loudspeaker with conductive bridge. 4,672,675, 6-9-87, Cl. 381-182.000.

Powell, James E.: *See—*
Payne, George B.; Soloway, Samuel B.; Powell, James E.; Roman, Steven A.; and Kollmeyer, Willy D., 4,670,041, Cl. 71-92.000.

owell, James R.: *See*—
Botts, Thomas E.; and Powell, James R., 4,643,809, Cl. 204-155.000.
owell, Jeffrey M., to Liebert Corporation. Power conditioning system and apparatus. 4,684,875, 8-4-87, Cl. 323-204.000.
owell, Jeffrey M.: *See*—
Gephart, Don A.; and Powell, Jeffrey M., 4,709,318, Cl. 363-37.000.
owell, John G., to Southern California Edison Company, Inc. Siren. 4,649,853, 3-17-87, Cl. 116-147.000.
owell, Jon N., to Thomson Components-Mostek Corp. Method and network for transmitting addressed signal samples from any network input to an addressed network output. 4,685,128, 8-4-87, Cl. 379-272.000.
owell, Jonathan S., Jr. Swimming pool chlorine injection means and method. 4,663,057, 5-5-87, Cl. 210-754.000.
owell, Jonathan S., Jr. Process for chlorination of swimming pools. 4,673,513, 6-16-87, Cl. 210-756.000.
owell, Justin C., to Texaco Inc., White. Cyclized unsaturated keto acids. 4,701,553, 10-20-87, Cl. 562-504.000.
owell, Leon T., to McKenzie Taxidermy Supply, Inc. Taxidermy mold with means for holding eye within mold during formation of taxidermy form, and method. 4,642,209, 2-10-87, Cl. 264-46.400.
owell, Lloyd J., to ITT Corporation. Connector with removable socket elements. 4,653,839, 3-31-87, Cl. 339-176.00M.
owell, Michael J.: *See*—
Baker, Terence S.; Abbott, Stephen R.; Simpson, John G.; Wright, John F.; and Powell, Michael J., 4,656,143, Cl. 436-527.000.
Baker, Terence S.; Powell, Michael J.; and Titmas, Richard C., 4,716,109, Cl. 435-7.000.
owell, Patrick W., to Broncorp Manufacturing Company, Inc. Pneumatic paint shaker. 4,662,760, 5-5-87, Cl. 366-211.000.
owell, Paul E. Combination mirror defogging and drying device. 4,701,594, 10-20-87, Cl. 219-219.000.
owell, Philip E., to Advanced Cardiovascular Systems, Inc. Self-venting balloon dilatation catheter and method. 4,638,805, 1-27-87, Cl. 128-344.000.
owell, Philip E., to Advanced Cardiovascular Systems, Inc. Self-venting balloon dilatation catheter and method. 4,692,200, 9-8-87, Cl. 156-289.000.
owell, Ralph A.: *See*—
Derouane, Eric G.; and Powell, Ralph A., 4,652,684, Cl. 568-438.000.
owell, Richard C.: *See*—
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owell, Tommie L. Scribing device and method. 4,635,369, 1-13-87, Cl. 33-27.110.
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McNeely, Michael D.; and Powell, Walter W., 4,705,065, Cl. 137-484.600.
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Powers, Debora L.; Powers, John G.; and Rogina, Eugene L. Water conservation system. 4,697,614, 10-6-87, Cl. 137-337.000.
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Powis, William N., to FL Industries, Inc. Gas fired furnace. 4,674,475, 6-23-87, Cl. 126-110.00C.

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Poyer, David D. Outdoor lighting fixture with U-shaped fluorescent lamp. 4,692,848, 9-8-87, Cl. 362-216.000.

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Vaveguide branch coupler. 4,635,006, 1-6-87, Cl. 333-111.000.
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Peltier, Bernard P. J. M., 4,695,957, Cl. 364-422.000.
Sheppard, Michael, 4,715,452, Cl. 175-61.000.
Prade, Ernstfried, to Mistral Windsurfing AG. Rig for a windsurfing board. 4,671,199, 6-9-87, Cl. 114-39.000.
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Berger, Michel, 4,707,231, Cl. 204-164.000.
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Prairie, Robert S.; and Paskowski, Frank J., Jr., to Combustion Engineering, Inc. Retrofitable coiled spring system. 4,706,900, 11-17-87, Cl. 241-121.000.
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Prak, Jan, to Intel Corporation. Clock driver circuit. 4,645,947, 2-24-87, Cl. 307-269.000.
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Prandin, Otello. A-shelter. 4,642,952, 2-17-87, Cl. 52-169.600.
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Frings, Adam; and Prange, Wilfried, 4,650,954, Cl. 219-121.0LD.
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Vandevier, Joseph E.; Bearden, John L.; Pranger, William F.; and Miller, Harold L., 4,678,399, Cl. 415-199.200.
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Ruppman, Kurt H.; and Prano, Charles A., 4,715,920, Cl. 156-344.000.
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oil emulsion into an oil-in-water emulsion. 4,646,771, 3-3-87, Cl. 137-13.000.

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Prasse, Alfred: *See—*
Eck, Herbert; Menzel, Hartmut; Jira, Reinhard; and Prasse, Alfred, 4,650,835, Cl. 525-440.000.

Prat, Gisele: *See—*
Creuzet, Marie-Helene; Feniou, Claude; Guichard, Francoise; Pontagnier, Henri; and Prat, Gisele, 4,698,343, Cl. 514-255.000.
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Zago, Giovanni; and Prataviera, Giovanni, 4,685,015, Cl. 360-128.000.
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Kellogg, Joseph A.; and Prather, James E., 4,677,840, Cl. 72-465.000.

Pratscher, Andrew J. Animal trap. 4,653,221, 3-31-87, Cl. 43-64.000.

Pratt Burnerd International Limited: *See—*
Jackson, Joseph F., 4,700,955, Cl. 279-4.000.

Pratt, Clyde R.; Carignan, Roger G.; Raggio, Charles M.; and Woznick, Chuck P., to Techmedica, Inc. Prosthesis device fabrication. 4,636,219, 1-13-87, Cl. 623-22.000.

Pratt, Donald S.: *See—*
Hinton, Jonathan W.; Pratt, Donald S.; and Gehart, Edward J., 4,655,984, Cl. 264-314.000.

Pratt, Howard L., to Navistar International Transportation Corp. Ambient air modulator for engine fluid heat exchanger. 4,706,461, 11-17-87, Cl. 60-599.000.

Pratt, J. Richard: *See—*
St. Clair, Terry L.; Maudgal, Shubha; and Pratt, J. Richard, 4,713,439, Cl. 528-353.000.

Pratt, James O.: *See—*
McIntosh, Kenneth B.; Pratt, James O.; and Stout, Donald E., 4,682,299, Cl. 364-569.000.

Pratt, John D.; and Morrow, Joseph F., to Monogram Industries, Inc. Flush break blind fastener. 4,659,271, 4-21-87, Cl. 411-43.000.

Pratt, John D., to Monogram Industries, Inc. Blind fastener with torque lock. 4,659,272, 4-21-87, Cl. 411-43.000.

Pratt, John D.; and Belanger, Victor, to Monogram Industries, Inc. Drive nut blend fastener with cap nut. 4,681,494, 7-21-87, Cl. 411-54.000.

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Pratt, Roderick J.: *See—*
Cawley, Robin A.; and Pratt, Roderick J., 4,667,221, Cl. 358-22.000.

Pratt, Rodger; and Sparling, Michael. Apparatus and method for positioning an object in a building. 4,671,721, 6-9-87, Cl. 414-10.000.

Pratt, Roland H.: *See—*
Jones, Roger E.; and Pratt, Roland H., 4,647,203, Cl. 356-345.000.

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Pratt, Stephen C. Loading and unloading device. 4,655,671, 4-7-87, Cl. 414-477.000.

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Jones, Gerald W.; Pratt, W. Robert; and Summa, William J., 4,697,923, Cl. 356-239.000.

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Blizzard, Cyril A. M., 4,640,091, Cl. 60-39.290.
Chamberlain, Stephen S., 4,687,412, Cl. 415-134.000.
Elsworth, John K.; Nownahal, Ali; and Wilson, Kevin, 4,708,371, Cl. 285-13.000.
Morissette, Pierre; Stewart, Alexander W.; and Taylor, Keith H., 4,682,505, Cl. 73-862.340.

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Pratt, William M. Adjustable lock for sliding closures. 4,674,779, 6-23-87, Cl. 292-263.000.

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Holdt, Bernd-Dieter; Menke, Ronald; Praus, Gerd; and Hasselbach, Petra, 4,683,072, Cl. 252-102.000.

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Pravda, Milton F., to Manco Corporation. Self-cleaning, rotary heat exchanger. 4,640,344, 2-3-87, Cl. 165-86.000.

Prawdzik, John; Maxim, Norman F.; Lane, William C.; and Antonio, Christo, to Technographics Fitchburg Coated Products, Inc. Method for the production of abrasion-resistant decorative laminates. 4,689,102, 8-25-87, Cl. 156-235.000.

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Prazak, Charles J., III, to Zenith Electronics Corporation. Process of manufacturing for a high-resolution color cathode ray tube. 4,678,447, 7-7-87, Cl. 445-45.000.

Prazak, Charles J., III: *See—*
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Prazisions-Werkzeuge AG: *See—*
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PRC Corporation: *See—*
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Pre-Melt Systems, Inc.: *See—*
Areaux, Larry D.; and Dudley, Robert H., 4,702,768, Cl. 7
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Preato, Mario. Golf putter. 4,712,798, 12-15-87, Cl. 273-164.000.

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R.; Smith, Bob G.; and Knight, Ronald C., 4,654,194, C
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Prechtel, Georg: *See—*
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Prechtl, Wolfgang; and Weis, Guenther, to Siemens Aktiengesellschaft. Plug-in insertion system for electrical communications apparatus. 4,662,705, 5-5-87, Cl. 339-184.00R.

Precise Power Corporation: *See—*
Roesel, John F., Jr.; and Barber, Ronnie J., 4,663,536, Cl. 290-7.00

Precision Automation Co., Inc.: *See—*
Bittner, Charles W., 4,706,440, Cl. 53-438.000.

Precision-Cosmet Co., Inc.: *See—*
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G., 4,664,665, Cl. 623-6.000.

Precision Devices, Inc.: *See—*
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Precision Drilling, Inc.: *See—*
Frommes, T. Michael, 4,694,245, Cl. 324-158.00F.

Precision Engineered Systems Inc.: *See—*
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and Ingram, Timothy J., 4,686,902, Cl. 101-424.000.

Precision Fukuhara Works, Ltd.: *See—*
Izumi, Toshiro; and Ueda, Hiroyuki, 4,703,632, Cl. 66-168.000.
Sawazaki, Masatoshi; and So, Hidetoshi, 4,656,842, Cl. 66-139.00
Sawazaki, Masatoshi; and Tsuchiya, Kouji, 4,671,083, C
66-151.000.
Yorisue, Shozo; and Morimoto, Seiji, 4,691,536, Cl. 66-168.000.

Precision Handling Devices, Inc.: *See—*
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Hubbard, Leo J.; and Kerivan, Leo J., 4,714,185, Cl. 226-74.000.
Kerivan, Leo J., 4,706,861, Cl. 226-74.000.

Precision Image Corporation: *See—*
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Day, Gene F., 4,655,165, Cl. 118-647.000.
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Precision Measurement, Inc.: *See—*
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Precision Mecanique Labinal: *See—*
le Chatelier, Robert; Sinic, Andre; and Diefenbach, Jean-Jacques
4,696,334, Cl. 152-417.000.
Le Corre, Loic; and Rolland, Albert L., 4,638,200, Cl. 310-156.00
Vandame, Bertrand, 4,655,527, Cl. 339-91.00R.
Vandame, Bertrand, 4,664,460, Cl. 339-59.00R.
Vandame, Bertrand, 4,696,530, Cl. 439-266.000.
Vandame, Bertrand, 4,698,027, Cl. 439-271.000.
Vanderschaeghe, Christian, 4,658,165, Cl. 310-156.000.

Precision Metal Fabricators, Inc.: *See—*
Lenhart, Ronald A., 4,653,964, Cl. 406-86.000.
Lenhart, Ronald A., 4,655,677, Cl. 414-786.000.
Lenhart, Ronald A., 4,669,604, Cl. 198-453.000.

Precision Monolithics, Inc.: *See—*
Bowers, Derek F., 4,675,561, Cl. 307-570.000.
Bowers, Derek F.; and Tasdighi, Ali, 4,677,369, Cl. 323-314.000.
Butler, James R., 4,687,984, Cl. 323-315.000.
Morton, William D., 4,683,423, Cl. 324-158.00F.

Precision Piping & Instruments, Inc.: *See—*
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Precision Plumbing Products, Inc.: *See—*
Perrott, Charles H., 4,644,972, Cl. 137-883.000.

Precision Rubber Products Corporation: *See—*
Baker, W. Howard, 4,711,602, Cl. 425-206.000.

Precision Screw Machine Company: *See—*
Greene, Hilliard F., Sr., 4,677,723, Cl. 29-157.10R.

Precision Shooting Equipment Company: *See—*
Johnston, Richard, 4,649,889, Cl. 124-23.00R.
Johnston, Richard, 4,660,537, Cl. 124-86.000.
Shepley, Pete; Johnston, Richard; and Smith, Allan F., 4,697,350
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Precision Strip Technology, Inc.: *See—*
Eiting, John C., 4,667,550, Cl. 83-56.000.

Precision Surgical Instruments, Inc.: *See—*
Thimsen, James A.; Whipple, Terry L.; and Caspari, Richard B.
4,649,919, Cl. 128-305.000.

Precision Tooling s.r.l.: *See—*
Lusetti, Giorgio; and Secchi, Lorenzo, 4,658,677, Cl. 76-25.00A.

Precisionform, Inc.: *See—*
Coy, William H., 4,638,608, Cl. 52-98.000.

Precitronic Gesellschaft: *See—*
Eichweber, Kurt, 4,695,256, Cl. 434-22.000.

recitronic Gesellschaft fur Feinmechanik und Electronic m.b.H.: *See—*
Eichweber, Kurt, 4,662,003, Cl. 455-605.000.
Eichweber, Kurt, 4,689,016, Cl. 434-22.000.
reco Industries, Inc.: *See—*
Raney, Charles C., 4,697,485, Cl. 83-34.000.
recor Incorporated: *See—*
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recorp, Inc.: *See—*
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recoul, Michel; and Francois, Jean-Claude, to Societe d'Etudes, de Realisations et d'Applications Techniques (S.E.R.A.T.). Spreadable telescopic head for appliances, projectiles, bombs or missiles. 4,669,386, 6-2-87, Cl. 102-476.000.
recoul, Michel; and Peyroux, Jean S., to Societe d'Etudes, de Realisations et d'Applications Techniques (S.E.R.A.T.). Hollow charges. 4,672,896, 6-16-87, Cl. 102-309.000.
recure, Carroll R. Compost distributor. 4,634,056, 1-6-87, Cl. 239-661.000.
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redohl, Wilhelm; Beisemann, Heinz; and Reitemeyer, Paul, to Reifenhauser GmbH & Co. Maschinenfabrik. Apparatus for continuous extrusion of a multilayer synthetic resin web. 4,695,236, 9-22-87, Cl. 425-131.100.
reece, Michael J.: *See—*
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reedy, John E.: *See—*
Gerrard, Donald L.; Preedy, John E.; and Williams, Kenneth P. J., 4,693,377, Cl. 209-579.000.
reformed Line Products Company: *See—*
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reg, Robert; and Hartman, James, to General Battery Corporation. Method and apparatus for welding metallic parts. 4,672,167, 6-9-87, Cl. 219-117.100.
regnall, Richard A.; and LeGrand, Archie M., Jr., to Westinghouse Electric Corp. Method of measuring moisture in a burnable absorber. 4,711,854, 12-8-87, Cl. 436-144.000.
regnall, Richard A.: *See—*
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reh Electrofeinmechanische Werke, Jakob Preh, Nachf. GmbH & Co.: *See—*
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reh Elektrofeinmechanische Werke Jakob Preh, Nachf. GmbH & Co.: *See—*
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Oelsch, Jurgen, 4,658,235, Cl. 338-307.000.
Reuss, Oswald, 4,659,164, Cl. 339-143.00R.
Reuss, Oswald; and Rutterschmidt, Franz, 4,701,740, Cl. 338-164.000.
Reuss, Oswald; and Otto, Karl L., 4,702,708, Cl. 439-83.000.
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reh Industrieausrustungen GmbH: *See—*
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reiner, Peter: *See—*
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von Bonin, Wulf; Blahak, Johannes; von Gizycki, Ulrich; and Preis, Lothar, 4,659,797, Cl. 528-28.000.
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Preiss, Richard B.; and Dalrymple, John C., to Tektronix, Inc. System and method for smoothing the lines and edges of an image on a raster-scan display. 4,672,369, 6-9-87, Cl. 340-728.000.
Preissinger, Norbert; and Bogdan, Teofil, to MWB Messwandler-Bau AG. High-voltage current transformer. 4,701,738, 10-20-87, Cl. 336-92.000.
Preksta, Ronald M.: *See—*
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Prella, Giovanni, to Nestec S.A. Process for the manufacture of a dairy product. 4,716,045, 12-29-87, Cl. 426-63.000.
Preload Concrete Structures, Inc.: *See—*
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Premel, Ulrich; Dorling, Rolf; and Schultze, Manfred, to L. & C. Steinmuller GmbH; and VEW Vereinigle Elektrizitatswerke Westfalen AG. Process and apparatus for producing high-pressure and superheated steam. 4,694,782, 9-22-87, Cl. 122-7.00R.
Premerlani, William J., to General Electric Company. Apparatus and method to increase dynamic range of digital measurements. 4,674,062, 6-16-87, Cl. 364-602.000.
Premerlani, William J., to General Electric Company. Digital phase-locked loop and frequency measuring device. 4,715,000, 12-22-87, Cl. 354-484.000.
Premerlani, William J.: *See—*
Bilac, Mario M.; Dougherty, John J.; Purkayastha, Indrajit; and Premerlani, William J., 4,672,501, Cl. 361-96.000.
Wheeler, James E.; Hardy, Robert M.; Dunki-Jacobs, Robert J.; and Premerlani, William J., 4,694,416, Cl. 364-736.000.
Premier Brands U.K. Limited: *See—*
Rimmer, James R.; and Sweeney, Ronald M., 4,712,358, Cl. 53-450.000.
Premier Industrial Corporation: *See—*
Schnipke, Dennis E., 4,697,742, Cl. 239-587.000.
Premiere Casing Services, Inc.: *See—*
Hayatdavoudi, Asadollah, 4,670,161, Cl. 210-739.000.
Shows, Jess W., Jr.; and Hayatdavoudi, Asadollah, 4,715,625, Cl. 285-145.000.
Premium Allied Tool, Inc.: *See—*
Day, James C.; and Payne, Gerald, 4,667,397, Cl. 29-748.000.
Premoli, Ercole: *See—*
Panizza, Ettore; and Premoli, Ercole, 4,640,557, Cl. 303-100.000.
Prendel, Peter: *See—*
Elsner, Hans; and Prendel, Peter, 4,669,027, Cl. 361-111.000.
Prendergast, Gavan J. J., to Carroll, Noel. Cyclone separator. 4,710,299, 12-1-87, Cl. 210-512.100.
Prendergast, William M.; and Margolien, Daniel J., to Ex-Cell-O Corporation. Semi-automatic armature assembly slot cleaner. 4,686,730, 8-18-87, Cl. 15-93.00R.
Prenger, F. Coyne: *See—*
Barclay, John A.; Stewart, Walter F.; Prenger, F. Coyne; Zimm, Carl B.; and Parsons, John P., 4,702,090, Cl. 62-3.000.
Prenger, F. Coyne, Jr.: *See—*
Barclay, John A.; and Prenger, F. Coyne, Jr., 4,642,994, Cl. 62-3.000.
Prentakis, Antonios E.: *See—*
Goodman, Frederick A.; and Prentakis, Antonios E., 4,685,775, Cl. 350-486.000.
Prentice, Charles E.; and Prentice, Nadine P. Shredder. 4,678,126, 7-7-87, Cl. 241-34.000.
Prentice, Daniel. Kite line take-up device. 4,714,217, 12-22-87, Cl. 244-155.00R.
Prentice, John S.: *See—*
Jost, Steve R.; and Prentice, John S., 4,675,798, Cl. 363-54.000.
Prentice, Mark E., to Avon Industrial Polymers Limited. Attachment of skirt parts for surface-effect vehicles. 4,702,332, 10-27-87, Cl. 180-127.000.
Prentice, Nadine P.: *See—*
Prentice, Charles E.; and Prentice, Nadine P., 4,678,126, Cl. 241-34.000.
Prentice, Thomas C.: *See—*
Blesser, Barry A.; and Prentice, Thomas C., 4,638,119, Cl. 178-19.000.
Blesser, Barry A.; and Prentice, Thomas C., 4,644,102, Cl. 178-19.000.
Preposreve S.A.R.L.: *See—*
Peyrot, Jean-Claude; and Bonnard, Jean-Louis, 4,683,656, Cl. 30-162.000.
Preputnick, George, to AMP Incorporated. High density electrical connector system. 4,715,829, 12-29-87, Cl. 439-660.000.
Presby, Herman M., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Signal sampler microbending fiber test clip. 4,672,198, 6-9-87, Cl. 250-227.000.
Presby, Herman M., to American Telephone and Telegraph Company, and AT&T Bell Laboratories. Optical fiber mode scrambler. 4,676,594, 6-30-87, Cl. 350-96.290.
Presby, Herman M., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Laser nibbling of optical waveguides. 4,710,605, 12-1-87, Cl. 219-121.0LJ.
Presby, Herman M., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Lightguide access port. 4,712,858, 12-15-87, Cl. 350-96.150.

Prescant Pty. Limited: *See—*
Grayden, Paul A., 4,637,780, Cl. 417-68.000.
Prescher, Guenter; Grund, Andreas; Petsch, Heinrich; and Boehme, Georg, to Degussa Aktiengesellschaft. Process for the production of 3-cyclohexene-1-carboxaldehyde. 4,642,387, 2-10-87, Cl. 568-446.000.
Prescher, Guenter: *See—*
Andrade, Juan; Prescher, Guenter; and Samson, Marc, 4,675,451, Cl. 568-486.000.
Deschler, Ulrich; Grund, Andreas; and Prescher, Guenter, 4,705,868, Cl. 549-215.000.
Prescher, Gunter: *See—*
Andrade, Juan; and Prescher, Gunter, 4,680,420, Cl. 549-476.000.
Andrade, Juan; Prescher, Gunter; and Kohler, Klaus, 4,691,062, Cl. 568-495.000.
Andrade, Juan G.; Prescher, Gunter; and Nagel, Ulrich, 4,668,795, Cl. 548-412.000.
Prescolite, Inc.: *See—*
Cohen, Joel S., 4,699,439, Cl. 439-207.000.
Lasker, Martin L., 4,651,260, Cl. 362-281.000.
Lasker, Martin L., 4,701,832, Cl. 362-281.000.
Lasker, Martin L.; and Cohen, Joel S., 4,713,737, Cl. 362-285.000.
Roszel, Lynn; and Tabor, Jim, 4,680,536, Cl. 323-321.000.
Prescott, Rochelle; and Leiner, Dennis C., to Dyonics, Inc. Chromatic aberration corrected gradient index lens system. 4,641,927, 2-10-87, Cl. 350-413.000.
Prescott, Thomas J., to Parker Chemical Company. Metal base coating composition comprising chromium, silica and phosphate and process for coating metal therewith. 4,647,316, 3-3-87, Cl. 148-6.160.
Presentation Systems, Inc.: *See—*
Mattingly, Carl S., 4,667,362, Cl. 15-236.00R.
Presentation Technologies, Inc.: *See—*
Baker, Philip G.; and Yurchenco, James, 4,702,578, Cl. 354-15.000.
President Engineering Corporation: *See—*
Burger, Rainer, 4,702,785, Cl. 156-91.000.
Schwarz, Lothar; Ueberberg, Friedel; Kuehne, Rudolf; and Fischer, Dieter, 4,670,080, Cl. 156-307.500.
President and Fellows of Harvard College: *See—*
Collier, R. John; and Carroll, Stephen F., 4,709,017, Cl. 530-350.000.
Evans, David A.; and Sjogren, Eric B., 4,665,171, Cl. 540-364.000.
Halpern, Howard J., 4,714,886, Cl. 324-316.000.
Jones, Alun G.; Davison, Alan; and Abrams, Michael J., 4,707,544, Cl. 534-14.000.
Karnovsky, Manfred J.; Krueger, James M.; and Pappenheimer, John R., 4,668,661, Cl. 514-8.000.
Krueger, James M.; Pappenheimer, John R.; Karnovsky, Manfred L.; Lefrancier, Pierre; Choay, Jean; Chedid, Louis; and Lederer, Edgar, 4,698,330, Cl. 514-19.000.
Mossberg, Thomas W.; Bai, Yu-Sheng; Babbitt, William R.; and Carlson, Nils W., 4,670,854, Cl. 364-822.000.
Murphy, John R., 4,675,382, Cl. 530-350.000.
Schwartz, Martin A., 4,647,671, Cl. 548-545.000.
President and Trustees of the Miami University, The: *See—*
Pacey, Gilbert E.; and Sasaki, Ken-ichi, 4,659,815, Cl. 540-467.000.
Pacey, Gilbert E.; and Bubnis, Bernard P., 4,711,853, Cl. 436-74.000.
Preskitt, Charles A.: *See—*
Bramblett, Richard L.; and Preskitt, Charles A., 4,647,420, Cl. 376-159.000.
Preskitt, Jay. Pedal stroke adjuster for a bicycle or exercise machine. 4,648,287, 3-10-87. Cl. 74-594.100.
Presley, Donald R., to International Business Machines Corporation. Power supply/sink for use with switched inductive loads. 4,661,882, 4-28-87, Cl. 361-159.000.
Presnyakov, Vladimir I.: *See—*
Alexandrov, Adolf M.; Vasiliev, Evgeny G.; Iskanderov, Alexandr A., Magdenko, Vladimir S.; Melikov, Semen G.; Avsharov, Eduard R.; Tsimbler, Jury A.; and Presnyakov, Vladimir I., 4,711,182, Cl. 104-283.000.
Press-A-Lite Corporation: *See—*
Chabria, Paul R., 4,644,451, Cl. 362-189.000.
Press, Gerd: *See—*
Schuster, Heinz; and Press, Gerd, 4,639,155, Cl. 401-1.000.
Press, Irving D., to Unidynamics Corporation. Joint for plastic lined metal piping with reduced diameter pipe lap. 4,643,457, 2-17-87, Cl. 285-55.000.
Press, Irving D.; and Krieg, John, to Unidynamics Corporation. Plastic lined welded metal component and method of manufacture. 4,681,349, 7-21-87, Cl. 285-55.000.
Press, Jeffery B.; and Russell, Ronald K., to Ortho Pharmaceutical Corporation. Thienopyrimidine-2,4-dione derivatives and intermediates thereof. 4,670,560, 6-2-87, Cl. 544-278.000.
Press, Jeffery B., to Ortho Pharmaceutical Corporation. Furo(3,4-d)pyrimidine-2,4-dione derivatives and intermediates thereof. 4,703,120, 10-27-87, Cl. 544-278.000.
Press, Jeffery B.; and Russell, Ronald K., to Ortho Pharmaceutical Corporation. N-(substituted thienyl)-N'-(substituted piperazinyl)-ureas. 4,707,550, 11-17-87, Cl. 544-379.000.
Press, Jeffery B.: *See—*
Kanojia, Ramesh M.; Falotico, Robert; Tobia, Alfonso J.; and Press, Jeffery B., 4,714,705, Cl. 514-309.000.
Press, Jeffrey B.: *See—*
Bandurco, Victor T.; Mallory, Robert A.; Press, Jeffrey B.; and Werblood, Harvey M., 4,634,769, Cl. 544-285.000.
Press-Seal Gasket Corporation: *See—*
Skinner, Harry W.; Skinner, James W.; O'Donnell, William P., and Skinner, William O., 4,702,645, Cl. 405-154.000.
Press Technology Corporation: *See—*
Zandel, Adam, 4,633,700, Cl. 72-455.000.
Zandel, Adam, 4,688,417, Cl. 72-446.000.
Zandel, Adam, 4,696,180, Cl. 72-456.000.
Zeitlin, Alexander; and Zandel, Adam, 4,694,678, Cl. 72-455.000.
Zeitlin, Alexander; Brayman, Jack; and Zandel, Adam, 4,708,490, Cl. 72-455.000.
Pressaco, Pierre; and Sauvee, Jean-Paul, to Societe Anonyme D.B.A. Brake actuator with automatic adjustment. 4,705,147, 11-10-87, Cl. 188-196.00D.
Pressaco, Pierre: *See—*
Carre, Jean-Jacques; and Pressaco, Pierre, 4,660,684, Cl. 188-71.900.
Sauvee, Jean P.; and Pressaco, Pierre, 4,699,253, Cl. 188-71.900.
Presseau, Michel: *See—*
Dagenais, Georges; Michaud, Ghislain; and Presseau, Michel, 4,633,652, Cl. 53-444.000.
Presser, Adolph; and Perlow, Stewart M., to RCA Corporation. High performance interdigitated coupler with additional jumper wire. 4,636,754, 1-13-87, Cl. 333-116.000.
Presser, Dwight W.; and Berke, Joseph J., to Berke, Joseph J. Dental mirror. 4,713,002, 12-15-87, Cl. 433-30.000.
Presser, Erich: *See—*
Hinzmann, Alfred; Preisner, Peter; Presser, Erich; and Shu, Tinet, 4,681,124, Cl. 131-109.100.
Presser, Wolfgang; and von Charzewski, Cornelia, to Hochtemperatur-Reaktorbau GmbH. Process for the control and shutdown of a gas-cooled reactor. 4,636,350, 1-13-87, Cl. 376-226.000.
Pressiat, Robert: *See—*
Cojan, Yves; and Pressiat, Robert, 4,647,761, Cl. 250-203.00R.
Pressman, Eric, to General Electric Company. Modified flame retardant polyphenylene ether resins having improved foamability and molded articles made therefrom. 4,695,594, 9-22-87, Cl. 521-92.000.
Pressman, Norman J.; and Frost, John K., to John Hopkins University. Videophone network system. 4,645,872, 2-24-87, Cl. 379-54.000.
Pressmate, Inc.: *See—*
Plumb, Edwin W., 4,694,982, Cl. 226-115.000.
Pressure Pak, Inc.: *See—*
Jernberg, Robert H., 4,667,708, Cl. 141-1.000.
Pressure Science Incorporated: *See—*
Halling, Horace P.; and Oh, Se J., 4,643,463, Cl. 285-226.000.
Halling, Horace P., 4,681,353, Cl. 285-411.000.
Pressure Services, Inc.: *See—*
Brewer, Jimmy D.; Gunther, Albert W., Jr.; and Gunther, Albert W., Sr., 4,684,306, Cl. 414-22.000.
Pressure Systems Incorporated: *See—*
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Prest, Alan: *See—*
Dixon, Angus B.; Prest, Alan; and Thorpe, Paul, 4,677,338, Cl. 313-43.000.
Dixon, Angus B.; Prest, Alan; and Thorpe, Paul, 4,682,071, Cl. 313-43.000.
Prest, Colin T.: *See—*
Buckley, Keith; Prest, Colin T.; and Wilkinson, Paul, 4,707,375, Cl. 426-578.000.
Prestel, Fritz: *See—*
Lohner, Martin; and Prestel, Fritz, 4,682,142, Cl. 338-172.000.
Prestele, Erich; Schneider, Alfred; Hepperle, Willi; Katzer, Johann; Stephany, Christian; and Lopic, Franz, to Gardena Kress & Kastner GmbH. Washing brush with adjustable head. 4,673,307, 6-16-87, Cl. 401-289.000.
Presti, Frederick J., to Custom Rubber Products, Inc. Tube assembly for use in tire retreading. 4,664,353, 5-12-87, Cl. 249-65.000.
Prestige Skirting and Tablecloths Inc.: *See—*
Enison, Brent M., 4,698,117, Cl. 156-486.000.
Prestin, Peter: *See—*
Ulrich, Hannsjorg; and Prestin, Peter, 4,676,909, Cl. 210-665.000.
Presto Lock, Inc.: *See—*
Remington, Richard C., 4,677,832, Cl. 70-67.000.
Scelba, Stephen S.; and Molnar, Richard, 4,646,547, Cl. 70-312.000.
Scelba, Stephen S., 4,679,419, Cl. 70-312.000.
Presto Products, Incorporated: *See—*
Bach, Gary, 4,647,325, Cl. 156-73.100.
Winter, John P., 4,705,707, Cl. 428-35.000.
Winter, John P., 4,716,061, Cl. 428-35.000.
Preston, Brian C.: *See—*
Vanetik, Anatoly; and Preston, Brian C., 4,691,605, Cl. 83-175.000.
Preston, Dan C., Jr., to Baker Oil Tools, Inc. High temperature packer for well conduits. 4,709,758, 12-1-87, Cl. 166-120.000.
Preston, Donald: *See—*
Mainelli, Roy J.; and Preston, Donald, 4,715,395, Cl. 138-42.000.
Preston, Frank J., to Ex-Cell-O Corporation. Method for manufacturing RIM composites. 4,714,575, 12-22-87, Cl. 264-46.400.
Preston, Frank S.: *See—*
Blair, Preston E.; and Preston, Frank S., 4,695,953, Cl. 364-410.000.
Blair, Preston E.; and Preston, Frank S., 4,711,543, Cl. 352-87.000.
Preston, John C., to Helene Curtis Industries, Inc. Pearlescent shampoo and method for preparation of same. 4,654,207, 3-31-87, Cl. 424-70.000.
Preston, Keith; and Preece, Michael J. Portable carrier device for temporary attachment to a support. 4,676,468, 6-30-87, Cl. 248-238.000.

reston, Kendall, Jr. Logical transform image processor. 4,641,351, 2-3-87, Cl. 382-6.000.
resion, Kendall, Jr. Logical transform image processor. 4,667,295, 5-19-87, Cl. 364-518.000.
restridge, Floyd L.; and Johnson, Bruce C., to National Tank Company. Distributed charge composition electrodes and desalting system. 4,702,815, 10-27-87, Cl. 204-302.000.
retchel, David A., to Minnesota Mining and Manufacturing Company. Manufacture of low profile clip connector. 4,679,870, 7-14-87, Cl. 439-493.000.
reti, George: *See*—
Cutler, Winnifred B.; Preti, George; and Huggins, George R., 4,670,401, Cl. 436-65.000.
retot, Daniel: *See*—
Haldric, Bernard; Benedi, Gregorio; and Pretot, Daniel, 4,657,281, Cl. 280-775.000.
retre, Roger, to Moore Business Forms, Inc. Recording box. 4,681,226, 7-21-87, Cl. 206-449.000.
retre, Roger, to Moore Business Forms, Inc. Automobile insurance card. 4,695,077, 9-22-87, Cl. 283-81.000.
retty, Arthur J. Milling machine head assembly. 4,687,391, 8-18-87, Cl. 409-201.000.
rettyjohns, Keith N.: *See*—
Wyant, James C.; and Prettyjohns, Keith N., 4,639,139, Cl. 356-359.000.
retzel, Dieter: *See*—
Kunz, Martin; and Pretzel, Dieter, 4,667,793, Cl. 192-70.120.
retzer, Gale H.: *See*—
Kookootsedes, Gust J.; Reese, Herschel H.; Gutek, Beth I.; and Pretzer, Gale H., 4,701,017, Cl. 350-96.340.
reut, Richard B.: *See*—
Pauker, Armando; and Preuit, Richard B., 4,638,240, Cl. 323-289.000.
reukschat, Alfred: *See*—
Knecht, Heinz; Preukschat, Alfred; and Beck, Hubert, 4,650,042, Cl. 188-299.000.
reuschoff, Michael: *See*—
Becker, Kunibert; Kirchbrucher, Rudiger; and Preuschoff, Michael, 4,639,169, Cl. 405-291.000.
reuss, August-Wilhelm: *See*—
Wolfrum, Jurgen; Warnatz, Jurgen; Bruderreck, Hartmut; Gottlieb, Klaus; and Preuss, August-Wilhelm, 4,664,904, Cl. 423-648.00R.
reuss, Bernhard; and Manthe, Karl-Heinz, to Siemens Aktiengesellschaft. Contact assembly for low-voltage circuit breakers with a two-arm contact lever. 4,649,247, 3-10-87, Cl. 200-244.000.
reuss, Bernhard; and Berndt, Klaus-Gunther, to Siemens Aktiengesellschaft. Low-voltage circuit breaker having a switching mechanism arranged in a separate chamber. 4,678,873, 7-7-87, Cl. 200-18.000.
reussag Aktiengesellschaft: *See*—
Amann, Hans; and Bath, Axel, 4,652,055, Cl. 299-8.000.
Viehmann, Werner; and Engert, Bernd, 4,688,831, Cl. 285-137.100.
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Janssen, Klaus, 4,666,347, Cl. [illegible]44.000.
Krajewski, Wolfang; and Hannisch, Kunibert, 4,666,686, Cl. 423-89.000.
reuter, Gerhard; and Schulze, Martin, to Krupp-Koppers GmbH. Method for the separation of aromates from hydrocarbon mixtures containing aromatics. 4,664,783, 5-12-87, Cl. 208-313.000.
reveni, Cesare, to Ponteggi Est S.p.A. Coupler device for stressing cables, in prestressed concrete sliding cable structures. 4,680,906, 7-21-87, Cl. 52-223.00L.
revigliano, Paolo, to Ing. C. Olivetti & C., S.p.A. Feeder for office machines for individual sheet or continuous forms. 4,688,957, 8-25-87, Cl. 400-605.000.
revorsek, Dusan C.: *See*—
Prevorsek, Dusan; Sajal; and Prevorsek, Dusan C., 4,650,838, Cl. 525-504.000.
Prevorsek, Dusan; Sajal; and Prevorsek, Dusan C., 4,650,839, Cl. 525-504.000.
Harpell, Gary A.; Palley, Igor; Kavesh, Sheldon; and Prevorsek, Dusan C., 4,650,710, Cl. 428-263.000.
Harpell, Gary A.; Palley, Igor; and Prevorsek, Dusan C., 4,681,792, Cl. 428-102.000.
Kavesh, Sheldon; and Prevorsek, Dusan C., 4,663,101, Cl. 264-178.00F.
Kwon, Young D.; Kavesh, Sheldon; and Prevorsek, Dusan C., 4,713,290, Cl. 428-364.000.
Lin, Hsin L.; and Prevorsek, Dusan C., 4,695,240, Cl. 425-207.000.
Prevot, Claude: *See*—
Chouteau, Rene ; and Prevot, Claude, 4,686,473, Cl. 324-320.000.
Prevot, Jean; and Prevot, Claude, 4,707,252, Cl. 210-151.000.
Price, Stanley R., to SWM Corporation. Live center bin modification. 4,750, 10-6-87, Cl. 241-247.000.
Price, William T.: *See*—
Price, Gary R.; Prewitt, William T.; and Vandyke, James A., 4,667,519, Cl. 73-815.000.
Prewo, Karl M.; and Layden, George K., to United Technologies Corporation. Method for forming fiber reinforced composite articles. 4,671,845, 5-19-87, Cl. 264-87.000.
Prewo, Karl M.: *See*—
Layden, George K.; and Prewo, Karl M., 4,664,731, Cl. 156-89.000.
Prieur, Pierre: *See*—
Le Houerou, Gilbert; Bouchez, Guy; Preynat, Pierre; and Villain, Charles, 4,646,433, Cl. 29-755.000.
Prigan, Vladimir, to Verbatim Corporation. Hub hole characterization system. 4,695,982, 9-22-87, Cl. 364-506.000.
Prince, Anthony F.; Patel, Gordhanbhai N.; Denkewalter, Robert G.; and Baughman, Ray H., to Allied Corporation. Indicator device using metal salts of polyacetylenic compounds. 4,646,674, 3-3-87, Cl. 116-216.000.
Preziosi, Anthony F.; Patel, Gordhanbhai N.; Denkewalter, Robert G.; and Baughman, Ray H., to Allied Corporation. Metal salts of polyacetylenic compounds and uses thereof. 4,699,997, 10-13-87, Cl. 560-166.000.
Prezlock, James: *See*—
Zikmanis, Harijs; Prezlock, James; and Lahaski, Paul, 4,635,304, Cl. 4-506.000.
Priam Corporation: *See*—
Cloke, Robert L., 4,691,254, Cl. 360-45.000.
Cloke, Robert L., 4,697,098, Cl. 307-354.000.
Hazebrouck, Henry B., 4,635,151, Cl. 360-105.000.
Priam (Delaware) Corporation: *See*—
Castagna, Joseph T.; and McEligot, Sean, 4,703,470, Cl. 369-215.000.
Hazebrouck, Henry B., 4,703,377, Cl. 360-106.000.
Priaroggia, Paolo G., to Societa' Cavi Pirelli S.p.A. Pressure resistant submarine optical fiber cable. 4,676,590, 6-30-87, Cl. 350-96.230.
Priaroggia, Paolo G., to Societa Cavi Pirelli S.p.A. Pressure resistant submarine optical fiber cable. 4,690,498, 9-1-87, Cl. 350-96.230.
Priaroggia, Paolo G., to Societa Cavi Pirelli S.p.A. Pressure resistant submarine optical fiber cable. 4,697,875, 10-6-87, Cl. 350-96.230.
Priaroggia, Paolo G., to Societa' Cavi Pirelli S.p.A. Joint for optical fiber submarine cables. 4,699,459, 10-13-87, Cl. 350-96.210.
Priaroggia, Paolo G., to Societa' Cavi Pirelli S.p.A. Method of making an oil-filled electric cable with alternate layers of plastic and paper tape insulation. 4,704,170, 11-3-87, Cl. 156-53.000.
Pribis, Paul B.; and West, Herbert J., to General Electric Company. Seal. 4,715,260, 12-29-87, Cl. 89-7.000.
Price, Anthony G.; Parry, David; and Campbell, Roy, to Lucas Industries Public Limited Company. Self-energizing disc brakes. 4,653,614, 3-31-87, Cl. 188-70.00B.
Price, Anthony G.; and Campbell, Roy, to Lucas Industries. Self-energizing disc brakes. 4,685,541, 8-11-87, Cl. 188-71.400.
Price, Anthony G.; and Campbell, Roy, to Lucas Industries Public Limited Co. Self-energizing disc brakes. 4,702,351, 10-27-87, Cl. 188-71.400.
Price, Anthony G.; Bishop, Robert R.; and Campbell, Roy, to Lucas Industries. Self-energising disc brakes with links of different lengths. 4,703,836, 11-3-87, Cl. 188-71.400.
Price, Anthony G.; Campbell, Roy; and Green, Andrew P., to Lucas Industries. Self-energizing disc brakes. 4,711,327, 12-8-87, Cl. 188-71.400.
Price, Anthony G.: *See*—
Hillen, Klaus; Price, Anthony G.; and Campbell, Roy, 4,676,345, Cl. 188-72.200.
Price Brothers Company: *See*—
Sandt, Hartley; and Happy, Henry, 4,647,080, Cl. 285-297.000.
Sandt, Hartley; and Happy, Henry, 4,714,377, Cl. 405-154.000.
Price, Carole W.: *See*—
Beck, James R.; and Price, Carole W., 4,666,504, Cl. 71-92.000.
Price, David E.: *See*—
Winter, Edward M.; Price, David E.; and Hook, James E., 4,641,588, Cl. 110-203.000.
Price, Diana R.: *See*—
Woo, Edmund P.; and Price, Diana R., 4,642,351, Cl. 548-317.000.
Price, Donald R. C.: *See*—
Ellis, Stafford M.; and Price, Donald R. C., 4,656,421, Cl. 324-244.000.
Price, Edison A., to Edison Price Incorporated. Air diffuser. 4,671,170, 6-9-87, Cl. 98-41.300.
Price-Falcon, J. Federico, to Hylsa, S.A. Particulate solids flow control valve. 4,674,534, 6-23-87, Cl. 137-613.000.
Price, Frank O. Quarterback draw football. 4,706,959, 11-17-87, Cl. 273-247.000.
Price, J. B.; and Wu, Schyi-Yi, to Spectrum CVD, Inc. Plasma enhanced CVD. 4,692,343, 9-8-87, Cl. 427-38.000.
Price, J. B.: *See*—
Bunch, Matthew L.; Price, J. B.; and Stitz, Robert W., 4,640,224, Cl. 118-725.000.
Price, James. Static charge protector for integrated circuits. 4,677,520, 6-30-87, Cl. 361-220.000.
Price, James H.: *See*—
Paul, Patrick R. D.; and Price, James H., 4,694,520, Cl. 5-453.000.
Price, James R.; and Leiner, Kevin P., to Cobe Laboratories, Inc. Electrical connectors for a liquid sensor. 4,703,989, 11-3-87, Cl. 439-283.000.
Price, John B.: *See*—
Clarke, Steven R.; Price, John B.; Sallavanti, Robert A.; and Zawislak, Stephen P., 4,698,956, Cl. 57-2.000.
Price, John E.; and De Clue, Larry W., to Amdahl Corporation. Sequential logic circuits implemented with inverter function logic. 4,675,553, 6-23-87, Cl. 307-455.000.
Price, John E.; and De Clue, Larry W., to Amdahl Corporation. Combinational logic circuits implemented with inverter function logic. 4,680,486, 7-14-87, Cl. 307-475.000.
Price, John F.: *See*—
Schneider, Alan A.; Stewart, David A.; Jolson, Joseph D.; Auel, RaeAnn M.; and Price, John F., 4,707,242, Cl. 204-412.000.
Price, John G. Belt core. 4,666,100, 5-19-87, Cl. 242-68.500.
Price, John G. Method of splicing belt. 4,671,834, 6-9-87, Cl. 156-87.000.
Price, John G.: *See*—
Esch, Friedrich D.; and Price, John G., 4,696,146, Cl. 53-529.000.
Esch, Friedrich D.; and Price, John G., 4,698,953, Cl. 53-529.000.

Price, Larry V., to Robertshaw Controls Company. Clock construction, Geneva clutch therefor and methods of making the same. 4,634,289, 1-6-87, Cl. 368-220.000.

Price, Lynn A., II: *See*—
Johnson, Eric A.; and Price, Lynn A., II, 4,642,618, Cl. 340-683.000.

Price, Lynwood L.: *See*—
Curry, Bill P.; Jones, John H.; Seiber, Brian L.; Price, Lynwood L.; Powell, Homer M.; and Kiech, Earl L., 4,679,939, Cl. 356-336.000.

Price, Macy J.; and Ball, Laurence G., to Engineered Data Products, Inc. Tape cartridge storage system. 4,688,682, 8-25-87, Cl. 211-41.000.

Price, Macy J.; Price, Macy J., Jr.; and Johnson, Mack E., to Engineered Data Products, Inc. Tape cartridge holding case. 4,709,815, 12-1-87, Cl. 206-387.000.

Price, Macy J.; Johnson, Mack E.; and Acker, Norman J., to Engineered Data Products, Inc. Movable computer work processing system. 4,712,842, 12-15-87, Cl. 312-196.000.

Price, Macy J.: *See*—
Accumanno, Mario B.; Ball, Laurence G.; and Price, Macy J., 4,688,860, Cl. 312-125.000.

Price, Macy J., Jr.: *See*—
Price, Macy J.; Price, Macy J., Jr.; and Johnson, Mack E., 4,709,815, Cl. 206-387.000.

Price, P. Michael: *See*—
Schmidt, E. Michael; and Price, P. Michael, 4,691,424, Cl. 29-261.000.

Price Pfister, Inc.: *See*—
Tarnay, Matthew; and Szemeredi, Robert, 4,655,486, Cl. 285-340.000.

Price, Raymond: *See*—
Dalton, Raymond F.; Price, Raymond; Quan, Peter M.; and Stewart, David, 4,683,310, Cl. 546-321.000.

Price, Richard P., to Nordson Corporation. Proportional flow control dispensing gun. 4,711,379, 12-8-87, Cl. 222-504.000.

Price, Robert: *See*—
Kartchner, Earl M.; Price, Robert; and Van Horn, Gary R., 4,638,494, Cl. 375-2.200.

Price, Robert B.: *See*—
Meistrick, Zdenek S.; and Price, Robert B., 4,664,070, Cl. 123-21.000.
Meistrick, Zdenek S.; and Price, Robert B., 4,706,625, Cl. 123-321.000.

Price, Ronald L.: *See*—
Krishnan, Sivaram; Price, Ronald L.; and White, Roger J., 4,650,823, Cl. 524-431.000.

Price, Sandra N. Patient gown. 4,686,715, 8-18-87, Cl. 2-114.000.

Price, Steven C., to Standard Oil Company, The. Tetraploid corn and methods of production. 4,705,910, 11-10-87, Cl. 800-1.000.

Price, T. David. Fence system with a stop mechanism. 4,693,158, 9-15-87, Cl. 83-468.000.

Price, Timothy D., to Rosemount Engineering Company Limited. Electrical isolation circuit. 4,678,937, 7-7-87, Cl. 307-311.000.

Price, Walter F., Jr.: *See*—
Jones, Rick O.; Price, Walter F., Jr.; Siemer, Glenn E.; and Ulrich, Michael H., 4,634,267, Cl. 355-66.000.

Price, William E.; Galloway, Louie A., III; Lowrey, Charles B.; and Lewis, Donald R. Apparatus and method for monitoring stored material. 4,636,475, 1-13-87, Cl. 436-3.000.

Price, William E. Optical sensing circuit for audio activation of toys. 4,659,919, 4-21-87, Cl. 250-209.000.

Price, William E. Toy having optically actuated sound generator. 4,675,519, 6-23-87, Cl. 250-209.000.

Price, William F.: *See*—
Dresen, William L.; Price, William F.; Emery, Phillip L.; Breezer, Harlan W.; and Holmes, Robert R., 4,693,507, Cl. 296-39.00R.

Price, William J.: *See*—
Bellavance, Joseph T.; and Price, William J., 4,636,978, Cl. 364-900.000.

Price, William L.; Schlupp, Ronald L.; and Thomas, Mammen, to Advanced Micro Devices, Inc. Process for formation of trench in integrated circuit structure using isotropic and anisotropic etching. 4,639,288, 1-27-87, Cl. 156-643.000.

Pricer, Wilbur D., to International Business Machines Corporation. BICMOS binary logic circuits. 4,701,642, 10-20-87, Cl. 307-446.000.

Pricer, Wilbur D.: *See*—
Cottrell, Peter E.; Gersbach, John E.; and Pricer, Wilbur D., 4,675,559, Cl. 307-530.000.

Prichard, Robert J., to Gerber Scientific Instrument Company. Laser imaging system and method for imposing pages for printing. 4,636,872, 1-13-87, Cl. 358-296.000.

Prickett, Robert J., to Raytheon Company. Broad beamwidth lens feed. 4,641,144, 2-3-87, Cl. 343-754.000.

Pricone, Robert M.; and Roberts, William N., to Amerace Corporation. Retroreflective sheeting. 4,672,089, 6-9-87, Cl. 524-354.000.

Priddy, Duane B., to Dow Chemical Company, The. Production of copolymers of α-methylstyrene. 4,647,632, 3-3-87, Cl. 526-88.000.

Priddy, Duane B.: *See*—
Stuart, Van I. W.; and Priddy, Duane B., 4,704,431, Cl. 525-75.000.

Pridgen, Danny W. Apparatus for drying hair spray and other compositions. 4,700,494, 10-20-87, Cl. 34-90.000.

Pridgen, Evans H.: *See*—
Berger, Jean P.; Pridgen, Evans H.; and Owens, Alfred W., 4,704,305, Cl. 427-96.000.

Pridgen, Lendon N.: *See*—
Lam, Bing L.; and Pridgen, Lendon N., 4,675,406, Cl. 544-320.000.

Pridham, Roger G., to Raytheon Company. System and method for measuring ice thickness. 4,697,254, 9-29-87, Cl. 367-92.000.

Pridham, Ronald G., to Monsanto Company. Apparatus for drying a 4,646,819, 3-3-87, Cl. 165-111.000.

Priebe, Gordon W.; and Collard, Arthur D., to Motorola, Inc. Register circuit for transmitting and receiving serial data. 4,648,105, 3-3-87, Cl. 377-64.000.

Priebe, Raymond G. Archery quiver. 4,635,611, 1-13-87, Cl. 124-24.00A.

Priebe, Waldemar: *See*—
Swenton, John S.; Horton, Derek; Priebe, Waldemar; and Morrow, Gary W., 4,663,445, Cl. 536-6.400.
Swenton, John S.; Morrow, Gary W.; and Priebe, Waldemar, 4,697,005, Cl. 536-6.400.

Priebisch, Artwin: *See*—
Schneider, Gunther; and Priebisch, Artwin, 4,638,733, Cl. 101-114.000.

Prieels, Jean-Paul; and Peiffer, Robert, to Oleofina, S.A. Process for the purification of proteins using acidic polysaccharide gels. 4,667,011, 5-19-87, Cl. 530-417.000.

Priefer, Ursula: *See*—
Puhler, Alfred; Simon, Reinhard; and Priefer, Ursula, 4,680,264, Cl. 435-172.300.

Priem, Richard J.; Ghassemzadeh, M. Reza; and Griffiths, James C., to American Gas Association. Pulse combustion engine and heat transfer system. 4,685,510, 8-11-87, Cl. 165-62.000.

Prien, Manfred: *See*—
Detampel, Heinz; Hillemann, Frank; Jobst, Wolfgang; and Prien, Manfred, 4,679,845, Cl. 296-192.000.

Prier, Donald G., to Dow Chemical Company, The. Novel polyether polycarbonate block copolymers and polyurethanes prepared therefrom. 4,634,743, 1-6-87, Cl. 525-462.000.

Prier, Donald G.: *See*—
Harris, Robert F.; and Prier, Donald G., 4,686,274, Cl. 528-196.00
Webb, Daniel D.; and Prier, Donald G., 4,713,399, Cl. 521-110.00

Priesemuth, Wolfgang. Arrangement of work locations. 4,706,572, 11-17-87, Cl. 108-60.000.

Priesner, Helmut: *See*—
Moser, Franz; Rammer, Franz; and Priesner, Helmut, 4,676,208, Cl. 123-276.000.
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Priesnitz, Uwe; and Riebel, Hans-Jochem, to Bayer Aktiengesellschaft. Process for the preparation of 2-cyanoamino-1,3,5-triazines. 4,659,822, 4-21-87, Cl. 544-194.000.

Priesnitz, Uwe: *See*—
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,645,528, Cl. 71-90.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,647,665, Cl. 544-182.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,658,027, Cl. 544-321.000.
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Forster, Heinz; Klauke, Erich; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, Ludwig; and Schmidt, Robert R., 4,657,577, Cl. 71-86.000.
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Priest, Mark A.: *See*—
Handke, Wayne A.; and Priest, Mark A., 4,698,510, Cl. 250-506.100
Handke, Wayne A.; and Priest, Mark A., 4,712,618, Cl. 166-308.000

Priest, Scott J.; Barton, Billy J.; and Johnson, Ronald C., to Chrysler Motors Corporation. Preformed ornamental cap or automotive vehicle. 4,699,420, 10-13-87, Cl. 296-210.000.

Priest, Wayne A., to SOR, Inc. Pressure differential control mechanism. 4,637,258, 1-20-87, Cl. 73-716.000.

Priester, Martin; and Loew, Peter, to Ciba-Geigy AG. Process for the manufacture of anthraquinone compounds. 4,655,970, 4-7-87, Cl. 260-378.000.

Priester, Ralph D.: *See*—
Turner, Robert B.; Peffley, Richard D.; Plepys, Raymond A.; Priester, Ralph D.; Gonzales, Manuel, Jr.; and Bushman, Kimbley A., 4,686,242, Cl. 521-137.000.

Priestley, Alan J. Keyboard arrangements. 4,675,653, 6-23-87, Cl. 340-365.00S.

Priestley, Joseph B., Jr. Filtration apparatus. 4,685,943, 8-11-87, Cl. 55-400.000.

Priestley, Joseph B., Jr. Particle treatment apparatus. 4,716,022, 12-29-87, Cl. 422-140.000.
Priestly, Ronald A., to Double R Petroleum Recovery, Inc. Petroleum recovery jet pump pumping system. 4,664,603, 5-12-87, Cl. 417-172.000.
Prieto, Agustin P.; Higom, Arturo T.; and Mata, Maria d. P. C., to La Compania Espanola De La Penicilina Y Antibioticos, S.A. Antimicrobial salt of fosfomycin with imidazole. 4,675,315, 6-23-87, Cl. 514-76.000.
Prieto, Thomas E.: *See*—
Smoot, Jeffrey B.; Vitek, Richard K.; Gette, William R.; and Prieto, Thomas E., 4,657,655, Cl. 204-299.00R.
Prietzel, Gunter: *See*—
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Prijs, Klaas: *See*—
Damen, Johannes P. M., Prijs, Klaas; Witmer, Cornelis H. M.; and de With, Gijsbertus, 4,665,612, Cl. 29-603.000.
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Prill, Leonard; and Mathews, Michael F. Hot water tank check valve. 4,633,853, 1-6-87, Cl. 126-362.000.
Prillwitz, Rolf, to L'Orange GmbH. Fuel-injection device. 4,650,116, 3-17-87, Cl. 239-88.000.
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Delle Piane, Alberto; Sartorio, Franco; Cantello, Maichi; and Ghiringhello, Guglielmo, 4,682,002, Cl. 219-121.0LD.
Primages, Inc.: *See*—
Chu, Mosi; Kress, Kenneth; and Manber, Solomon, 4,675,701, Cl. 346-76.0PH.
Lapinski, Frank; and Graziano, Anthony, 4,671,504, Cl. 271-126.000.
Primati, Marco, to Stabilimento Industriale Singer srl. Hinged support for portable mechanical ironing machine. 4,642,921, 2-17-87, Cl. 38-36.000.
Prime Computer, Inc.: *See*—
Cassinelli, Edgar R., 4,652,065, Cl. 339-17.0CF.
Curtin, Richard R.; and Clemente, Paul M., 4,644,489, Cl. 364-736.000.
Goodwin, Peter A., 4,642,616, Cl. 340-654.000.
Goodwin, Peter A., 4,658,204, Cl. 323-285.000.
Hogan, Thomas C.; and Adelman, Arnold, 4,639,936, Cl. 375-36.000.
King, Paul A., Jr., 4,704,717, Cl. 370-94.000.
Lounsbury, David M.; and Stevenson, Alexander J., 4,637,023, Cl. 371-38.000.
Stevenson, Alexander J.; Ross, Gordon A.; and Manson, Donald C., 4,675,551, Cl. 307-443.000.
Stevenson, Alexander J.; and Lounsbury, David M., 4,689,767, Cl. 364-900.000.
Sullivan, Roderick B., II; Doshi, Mahesh; and Cooper, Lorne, 4,695,968, Cl. 364-578.000.
Prime Instruments, Inc.: *See*—
Krupa, Robert L., Jr., 4,710,706, Cl. 324-146.000.
Primich, John V. Adjustable scraper. 4,704,795, 11-10-87, Cl. 30-169.000.
Primich, Theodore, to Gary Steel Products Corp. Sheet material slitter. 4,633,747, 1-6-87, Cl. 83-732.000.
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Primus, Howard C.: *See*—
Bejczy, Antal K.; and Primus, Howard C., 4,694,153, Cl. 250-202.000.
Prince, Aaron E., Jr.; and Pryor, Dale H., to Parker Kinetic Designs, Inc. Powder welding of two members. 4,645,898, 2-24-87, Cl. 219-104.000.
Prince, Alfred M.; and Vnek, John, to New York Blood Center, Inc. Hepatitis B antigenic compositions and vaccines against hepatitis B derived therefrom. 4,639,371, 1-27-87, Cl. 424-86.000.
Prince, Alfred M.; and Kim, Kwang S., to New York Blood Center, Inc.; and Eugene Tech International, Inc. Process for preparing hepatitis B surface antigen containing particles in novel forms which are highly immunogenic. 4,695,454, 9-22-87, Cl. 424-89.000.
Prince, Anthony F., to Outboard Marine Corporation. Single lever control. 4,648,497, 3-10-87, Cl. 192-0.084.
Prince Corporation: *See*—
Boerema, Edward T.; Flowerday, Carl W.; and Fleming, Dennis J., 4,670,819, Cl. 362-80.000.
Boerema, Edward T.; Suman, Michael J.; and Fleming, Dennis J., 4,690,450, Cl. 296-97.00K.
Boote, Carey J.; Robbins, Craig; and Spykerman, Scott A., 4,648,011, Cl. 362-135.000.
Dykstra, Ronald A.; Hawks, Mark W.; and De Jong, Jerry M., 4,686,609, Cl. 362-61.000.
Flowerday, Carl W., 4,652,982, Cl. 362-135.000.
Geerlings, Steven L., 4,677,381, Cl. 324-253.000.
Hemmeke, Ronald L.; and Spykerman, Scott A., 4,681,363, Cl. 296-97.00G.
Marcus, Konrad H.; and Chu, Zooey C., 4,639,085, Cl. 350-283.000.
Nestell, David E., 4,634,196, Cl. 339-5.00R.
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Watjer, Sheldon J.; and Boerema, Edward T., 4,640,542, Cl. 296-37.800.
Watjer, Sheldon J.; and Dykstra, Ronald A., 4,674,789, Cl. 296-97.00R.
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Prince Industrial Development Co., Ltd.: *See*—
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Badolato, Anthony; and Prince, Melissa A., 4,668,394, Cl. 210-314.000.
Prince, Paul R.; and Clark, Ronald L., to Hemascience Laboratories, Inc. Blood extraction and reinfusion flow control system and method. 4,657,529, 4-14-87, Cl. 604-6.000.
Prince Valve, Inc.: *See*—
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Princeton Synergetics, Inc.: *See*—
Greenberg, Joel S., 4,711,994, Cl. 235-384.000.
Princeton University: *See*—
Suckewer, Szymon, 4,704,718, Cl. 372-5.000.
Taylor, Edward C.; Beardsley, George P.; Harrington, Peter J.; and Fletcher, Stephen R., 4,684,653, Cl. 514-258.000.
Principotta, Raymond A., Sr.; and Salvucci, Antonio. Stacking apparatus. 4,712,787, 12-15-87, Cl. 271-311.000.
Principe, Viktor, to Arthur Schmid AG. Shuttle. 4,662,293, 5-5-87, Cl. 112-234.000.
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Armstrong, Bruce G.; and Principi, Fabio, 4,686,651, Cl. 365-226.000.
Prindle, Duane L., to Mel-Du Inc. Satellite tracking system. 4,672,385, 6-9-87, Cl. 343-766.000.
Prindle, Gordon E.; and Kelm, Thomas J., to Ideal Instruments, Inc. Automatic clip or pellet carrier fed pellet implanter apparatus. 4,687,465, 8-18-87, Cl. 604-61.000.
Prindle, Gordon E., to Ideal Instruments, Inc. Back-fill syringe. 4,715,853, 12-29-87, Cl. 604-184.000.
Pring, Graham M.: *See*—
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Pringle, David A.; and Gourley, Helen, to Optech Inc. Lamp reflector assembly. 4,686,612, 8-11-87, Cl. 362-297.000.
Pringle, David A.: *See*—
LaBelle, John T.; Pringle, David A.; and McKenna, Daniel, 4,692,607, Cl. 250-205.000.
Pringle, Judith S.: *See*—
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Pringle, Ronald E., to Camco, Incorporated. High temperature subsurface safety valve. 4,669,547, 6-2-87, Cl. 166-321.000.
Pringle, Ronald E., to Camco, Incorporated. Pressure charged low spread safety valve. 4,676,307, 6-30-87, Cl. 166-322.000.
Pringle, Ronald E.; and Morris, Arthur J., to Camco, Incorporated. Well reverse flow check valve. 4,688,593, 8-25-87, Cl. 137-116.000.
Pringle, Ronald E., to Camco, Incorporated. Retrievable well safety valve with expandable external seals. 4,691,776, 9-8-87, Cl. 166-319.000.
Pringle, Ronald E., to Camco, Incorporated. Variable fluid passageway for a well tool. 4,709,762, 12-1-87, Cl. 166-324.000.
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Prino, Giuseppe; Mantovani, Marisa; and Niada, Riccardo, to Crinos Industria Farmacobiologica S.p.A. Pharmaceutical composition for the treatment of acute myocardial ischemia. 4,693,995, 9-15-87, Cl. 514-44.000.
Prins, Geert J., to Staat der Nederlanden (Staatsbedrijf der Posterijen, Telegrafie en Telefonie). Letter-mail checking device. 4,687,106, 8-18-87, Cl. 209-552.000.
Prinsloo, Paul M.; Botha, Theunis J.; van Schalkwyk, Jacobus C. J.; and Smit, Nimrod J. J., to Card Carriers (Manufacturing) (Proprietary) Limited. Card holding device. 4,674,628, 6-23-87, Cl. 206-38.100.
Print-Lock Corporation: *See*—
Butland, Charles L., 4,700,657, Cl. 118-31.500.
Printiss, Frederick H., Sr.; and Barker, Irvy T., to Nelson Industries, Inc. Tube clamp assembly. 4,640,536, 2-3-87, Cl. 285-367.000.
Printmark, Inc.: *See*—
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Kazarian, Sam; Hagene, Steffen D.; McCrimmon, Kenneth A., Jr.; Miller, Robert C.; and Schwerin, James A., 4,685,818, Cl. 400-249.000.

Prints Plus, Inc.: *See*—
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Printzen, Helmut: *See*—
Burow, Wilfried; Printzen, Helmut; Brunn, Horst; and Nollen, Klaus, 4,698,100, Cl. 106-304.000.

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Priori, Franco: *See*—
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Prisbe, Ernest J.: *See*—
Verheyden, Julien P. H.; Martin, John C.; Madhavan, G. V. Bindu; McGee, Daniel P. C.; and Prisbe, Ernest J., 4,704,392, Cl. 514-267.000.

Prisbylla, Michael P., to Stauffer Chemical Company. Diphenyl ether herbicides. 4,714,491, 12-22-87, Cl. 71-86.000.

Prisco, Anthony J.; and Johnson, Alfred N., to Westinghouse Electric Corp. Conveyor for sorting radioactive waste. 4,679,738, 7-14-87, Cl. 241-101.200.

Prisco, Anthony J.: *See*—
Johnson, Alfred N.; and Prisco, Anthony J., 4,646,978, Cl. 241-24.000.
Johnson, Alfred N.; and Prisco, Anthony J., 4,658,142, Cl. 250-393.000.

Prisco, John J., to Warner Cable Communications, Inc. T-carrier fiber optic modem. 4,709,415, 11-24-87, Cl. 455-607.000.

Pritchard, Dalton H., to RCA Corporation. Motion detector that extracts motion information from sidebands of a baseband television signal. 4,641,186, 2-3-87, Cl. 358-105.000.

Pritchard, Dalton H.: *See*—
Wargo, Robert A.; Harwood, Leopold A.; Pritchard, Dalton H.; and Chartier, Michael S., 4,716,462, Cl. 358-166.000.

Pritchard, James R.; and Regelman, Dale F., to Dow Chemical Company, The. Thermally stable and high impact resistant structural polyurethane foam. 4,696,954, 9-29-87, Cl. 521-167.000.

Pritchard, James R.: *See*—
Alberino, Louis M.; Pritchard, James R.; and Vespoli, Nancy P., 4,659,747, Cl. 521-159.000.

Pritchard, James W.: *See*—
Haefling, James F.; Pritchard, James W.; and Stierman, Roger J., 4,691,854, Cl. 228-4.500.

Pritchard, John J., Jr., to Shell Offshore Inc. Apparatus for perforating and producing a well. 4,655,283, 4-7-87, Cl. 166-55.100.

Pritchard, John J., Jr., to Shell Offshore Inc. Abandoning offshore well. 4,688,640, 8-25-87, Cl. 166-365.000.

Pritchard, John J., Jr., to Shell Offshore Inc. Formation fluid sampler. 4,690,216, 9-1-87, Cl. 166-264.000.

Pritchard, Philip N. W., to Amphenol Corporation. Electrical connection devices for use with flat cable. 4,705,481, 11-10-87, Cl. 439-417.000.

Pritchatt, Robert J., to Naylor Bros. (Clayware) Limited. Sewer pipes. 4,673,198, 6-16-87, Cl. 285-292.000.

Pritchett, Ervin G.; and Hoyt, John M., to National Distillers and Chemical Corporation. Halogenated ethylene-vinyl acetate-isobutylene terpolymers. 4,689,370, 8-25-87, Cl. 525-330.300.

Pritchett, Gregory M.: *See*—
Hanson, Larry K.; and Pritchett, Gregory M., 4,673,187, Cl. 277-26.000.

Pritchett, James A. Boat lift with self aligning attachment. 4,641,595, 2-10-87, Cl. 114-44.000.

Pritchett, James D., to Booth, Inc. Cold plate for beverage dispensing. 4,678,104, 7-7-87, Cl. 222-146.600.

Pritikin, Claudia M., executrix: *See*—
Pritikin, William B., deceased; Smith, Burl L.; and Bridgeford, Douglas J., 4,664,861, Cl. 264-173.000.

Pritikin, William B., deceased (by Pritikin, Claudia M., executrix); Smith, Burl L.; and Bridgeford, Douglas J., to Teepak, Inc. Method for making preserved, high moisture, ready-to-stuff food casings. 4,664,861, 5-12-87, Cl. 264-173.000.

Pritzlaff, Philip E., Jr.: *See*—
Culican, Edward F.; Pritzlaff, Philip E., Jr.; Schettler, Helmut; and Van Goor, Kenneth A., 4,656,367, Cl. 307-270.000.

Pritzwald-Stegmann, Bernd: *See*—
Bauer, Kurt H.; Pritzwald-Stegmann, Bernd; and Luft, Werner, 4,693,750, Cl. 106-163.100.

Prize Frize, Inc.: *See*—
Bartfield, William; and Ferguson, Charles L., 4,646,627, Cl. 99-330.000.

Prizzi, John J., to Westinghouse Electric Corp. Method of processing tubing. 4,671,826, 6-9-87, Cl. 148-11.50F.

Pro-Catalyse: *See*—
Blanchard, Gilbert; and Prigent, Michel, 4,680,282, Cl. 502-304.00

Pro Form, Inc.: *See*—
Dalebout, William T.; Vassoughi, Sohrab; Martinell, William J.; Rohrer, David C.; Martinell, Steven W.; and Marchant, Robert L., 4,684,126, Cl. 272-134.000.

Pro-Line, Inc.: *See*—
Zide, Robert M., 4,651,356, Cl. 2-421.000.

Pro-Mark Corporation: *See*—
Brochstein, Irwin H., 4,702,143, Cl. 84-422.00S.

Pro Patch Systems, Inc.: *See*—
Hoffmann, Dennis, Sr., 4,707,391, Cl. 428-63.000.

Pro-Staff Fuels Ltd.: *See*—
Foster, Joseph S., 4,679,538, Cl. 123-525.000.

Pro-Tech Armored Products of New York, Inc.: *See*—
Martino, Philip C., 4,674,394, Cl. 89-36.050.

Probe-Rite, Inc.: *See*—
Ardezzone, Frank J., 4,636,722, Cl. 324-158.00P.

Probst, Georg, to GMT Nbvotny GmbH. Current leadthrough 4,700,999, 10-20-87, Cl. 439-271.000.

Probst, Harald, to Siemens Aktiengesellschaft. Switched DC-DC converter having input and output inductances coupled by switches and storage capacitances. 4,635,175, 1-6-87, Cl. 363-16.000.

Probst, Joachim; Sonntag, Michael; Richter, Roland; and Muller, Hanns P., to Bayer Aktiengesellschaft. Preparation of hydroxy group-containing alkoxylation products of organic carboxylic acid. 4,645,817, 2-24-87, Cl. 528-45.000.

Probst, Joachim; Beck, Ulrich; and Baumgen, Heinz, to Bayer Aktiengesellschaft. Cationic sizing agent for paper, and a process for its preparation. 4,659,431, 4-21-87, Cl. 162-168.200.

Probst, Jon D.: *See*—
Ackelson, Donald B.; Moorehead, Eric L.; Ward, John W.; and Probst, Jon D., 4,695,365, Cl. 208-89.000.

Proca Consulting AB: *See*—
Vigede, Thure, 4,635,367, Cl. 33-15.000.

Procedyne Corp.: *See*—
Girrell, Carol A.; and Japka, Joseph E., 4,671,496, Cl. 266-78.00

Process and Cryogenic Services, Inc.: *See*—
Been, Thomas S., 4,641,680, Cl. 137-312.000.
Been, Thomas S., 4,667,427, Cl. 40-442.000.

Process Development, Inc.: *See*—
Boze, Ronald A., 4,668,405, Cl. 210-795.000.

Process Equipment Company: *See*—
Knasel, Harold E.; and Grigsby, David A., 4,639,184, Cl. 414-730.000.

Process Equipment & Service Co., Inc.: *See*—
Rhodes, James E., 4,686,938, Cl. 122-4.00R.

Process Evaluation and Development Corporation: *See*—
Villavicencio, Eduardo J.; and Arana, Jorge E., 4,635,322, Cl. 19-66.00R.
Villavicencio, Eduardo J.; and Arana, Jorge E., 4,641,792, Cl. 241-74.000.
Villavicencio, Eduardo J., 4,689,117, Cl. 162-19.000.

Process Systems, Inc.: *See*—
Marsland, Charles N.; and Jannelli, Ralph J., 4,686,630, Cl. 364-492.000.

Processall, Inc.: *See*—
Shohet, Albert J., 4,705,222, Cl. 241-69.000.

Prochaska, Wolfgang; Schulz, Ralf T.; and Wackerle, Peter M., to Messerschmitt-Bolkow-Blohm GmbH. System for the manufacture of tubular structural parts of a fiber-reinforced plastic. 4,671,842, 6-9-87, Cl. 156-425.000.

Prochazka, Josef; and von Gratz, Jochen G., to Ludwig Heumann & Co. GmbH. Production of granulates by using a tabletting machine. 4,671,914, 6-9-87, Cl. 264-118.000.

Prockop, Darwin J., to University of Medicine and Dentistry of New Jersey. Method of treating the effectiveness of collagen-inhibiting compositions. 4,672,031, 6-9-87, Cl. 435-29.000.

Proconics International, Inc.: *See*—
Foulke, Richard F.; and Lord, Steven M., 4,682,928, Cl. 414-416.000.
Foulke, Richard F., 4,699,556, Cl. 414-404.000.
Ward, Stephen A., 4,700,321, Cl. 364-569.000.

Procter & Gamble Company, The: *See*—
Akhter, Lalarukh; Atkinson, Ronald E.; Wages, Dwight E.; and Beyer, Harold H., 4,678,606, Cl. 252-542.000.
Ampulski, Robert S., 4,634,499, Cl. 162-84.000.
Anderson, Arthur B.; and Brandt, Sherry L., 4,681,578, Cl. 604-385.00R.
Baginski, Richard M.; Dems, Bernard C.; Ross, Linda A.; and Soule, Ralph H., Jr., 4,652,392, Cl. 252-109.000.
Barrat, Christian R.; Busch, Alfred; and Sardelis, Kosmas, 4,639,321, Cl. 252-8.800.
Bedenk, William T.; and Harden, Kendall L., 4,638,907, Cl. 206-0.500.
Benecke, Arnold G.; Benson, Douglas H.; Goodman, William H., Jr.; and Van Coney, Robert H., 4,671,432, Cl. 222-386.000.
Benedict, James J.; and Sunberg, Richard J., 4,661,341, Cl. 424-48.000.
Benedict, James J.; and Johnson, Karen Y., 4,687,768, Cl. 514-102.000.

Berg, Ronald W.; and Stewart, Robert L., 4,685,909, Cl. 604-360.000.
Bernardino, Lowell W.; Kuhl, Edward W.; Mao, Mark H. K.; and Pancheri, Eugene J., 4,681,704, Cl. 252-546.000.
Bleil, Charles F.; and Morrow, John E., 4,704,221, Cl. 252-91.000.
Blum, Robert B.; Gardlik, John M.; Janusz, John M.; and Rizzi, George P., 4,692,513, Cl. 530-801.000.
Brand, Larry M., 4,681,897, Cl. 514-557.000.
Brand, Larry M.; and McDaniel, Harry C., 4,705,690, Cl. 426-590.000.
Brewer, Richard A.; Merk, Robert H.; and Orndorff, Gary J., 4,643,904, Cl. 426-549.000.
Brewer, Richard A.; Merk, Robert H.; and Orndorff, Gary J., 4,697,505, Cl. 99-450.100.
Brister, Bryan C., 4,671,902, Cl. 260-412.500.
Buell, Kenneth B., 4,636,207, Cl. 604-370.000.
Buell, Kenneth B., 4,704,115, Cl. 604-385.00A.
Burckett St. Laurent, James C. T.; and Busch, Alfred, 4,698,167, Cl. 252-8.800.
Burns, Michael E.; and Hardy, Frederick E., 4,634,551, Cl. 252-102.000.
Burns, Michael E., 4,686,063, Cl. 252-102.000.
Busch, Alfred; and St. Laurent, James C. T. B., 4,680,131, Cl. 252-102.000.
Bush, Rodney D.; and Heinzman, Stephen W., 4,654,159, Cl. 252-95.000.
Bush, Rodney D.; Connor, Daniel S.; Heinzman, Stephen W.; and Mackey, Larry N., 4,663,071, Cl. 252-174.190.
Cappel, James W.; and Cronemiller, Richard N., 4,668,522, Cl. 426-94.000.
Carr, Christopher; and Rembold, William T., 4,714,630, Cl. 427-207.100.
Collins, Jerome H.; Mackey, Larry N.; and Spadini, Gianfranco L., 4,687,592, Cl. 252-99.000.
Collins, Jerome H.; Mackey, Larry N.; and Spadini, Gianfranco L., 4,689,167, Cl. 252-95.000.
Copland, Donald S.; Halstead, Larry D.; and O'Brien, Lawrence E., 4,684,025, Cl. 206-484.000.
Cornette, Henri; and Heino, Jorgen, 4,703,872, Cl. 222-158.000.
Crabtree, Paul J.; and Imakawa, Kazuhiko, 4,637,890, Cl. 252-90.000.
Crabtree, Paul J.; and Imakawa, Kazuhiko, 4,686,060, Cl. 252-90.000.
Curro, John J.; Trusty, Alan J.; and Vernon, George M., 4,695,422, Cl. 264-504.000.
DeFlander, Jos; and Verdoodt, Dirk, 4,635,795, Cl. 206-526.000.
Dekker, Bob; Konig, Axel; Straathof, Theodericus J.; and Goselink, Eugene P., 4,661,267, Cl. 252-8.800.
Dirksing, Robert S., 4,678,103, Cl. 222-130.000.
Divo, Michael, 4,681,695, Cl. 252-94.000.
Dixon, Thomas J.; and Uchtman, Vernon A., 4,701,322, Cl. 424-70.000.
Dornbusch, Arthur H.; and Schanzle, Roger E., 4,641,746, Cl. 206-44.00R.
Drobish, James L., 4,640,442, Cl. 222-209.000.
Fu, Yi-Chang, 4,643,919, Cl. 427-393.100.
Goodman, William H., Jr.; Harm, Alson R.; Kock, Ronald W.; and Reiboldt, Howard N., 4,664,248, Cl. 198-394.000.
Gosselink, Eugene P., 4,702,857, Cl. 252-174.210.
Gosselink, Eugene P.; and Diehl, Francis L., 4,711,730, Cl. 252-8.750.
Gosselink, Eugene P., 4,713,194, Cl. 252-174.230.
Hammond, Edward P., 4,708,630, Cl. 425-504.000.
Hardy, Frederick E.; and Ingram, Barry T., 4,681,592, Cl. 8-111.000.
Hartman, Frederick A., 4,671,891, Cl. 252-186.420.
Hartman, Frederick A.; and Perkins, Christopher M., 4,704,233, Cl. 252-527.000.
Hasse, Margaret H., 4,657,539, Cl. 604-385.00A.
Hasse, Margaret H.; and Steinhardt, Mark J., 4,685,915, Cl. 604-378.000.
Haynes, Louis V.; Pflaumer, Phillip F.; Rizzi, George P.; and Roberts, Bruce A., 4,707,365, Cl. 426-94.000.
Hedglin, Walter L.; and Martodam, Raymond R., 4,634,691, Cl. 514-108.000.
Herdeman, Robert W., 4,707,287, Cl. 252-91.000.
Higgins, Maureen L., 4,690,680, Cl. 604-386.000.
Hirotsu, Dennis O.; and Robertson, Anthony J., 4,662,875, Cl. 604-389.000.
Janusz, John M.; and Gardlik, John M., 4,677,126, Cl. 514-19.000.
Janusz, John M., 4,692,512, Cl. 530-801.000.
Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., 4,647,466, Cl. 426-387.000.
Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., 4,693,905, Cl. 426-599.000.
Joffe, Frederick M., 4,650,483, Cl. 604-390.000.
Kajs, Theresa M.; and Berge, Cynthia A., 4,714,563, Cl. 252-107.000.
Kermode, Nigel J.; and Bragg, Charles D., 4,686,062, Cl. 252-99.000.
Kirkpatrick, Steven J.; Zoller, Steven A.; and Woods, Daniel L., 4,637,935, Cl. 426-443.000.
Kupper, Philip L.; Moore, Katherine L.; and Swaine, Robert L., Jr., 4,690,827, Cl. 426-548.000.
Kupper, Philip L.; and Morgan, Dan R., 4,705,691, Cl. 426-590.000.
Lamb, Christopher; Lawson, John R.; and Pearson, Carol, 4,671,894, Cl. 252-545.000.
Lash, Glen R., 4,710,189, Cl. 604-385.00A.
Lawson, Michael L., 4,695,278, Cl. 604-385.00A.
Lee, William E., III; Bangel, James M.; White, Robert L.; and Bruno, David J., Jr., 4,645,679, Cl. 426-560.000.
Letton, James C., 4,713,447, Cl. 536-18.600.
Lewis, William K., 4,698,181, Cl. 252-527.000.
Linman, E. Kelly; Curro, John J.; and Weinshenker, Eugene, 4,681,793, Cl. 428-138.000.
Llenado, Ramon A., 4,663,069, Cl. 252-117.000.
Loomans, Maurice E.; Matthews, Randall S.; and Miller, Joseph A., 4,708,966, Cl. 514-689.000.
McCullough, Michael J.; McKibben, Gary E.; and Skidmore, John E., 4,696,840, Cl. 220-462.000.
McNeil, Kevin B., 4,687,153, Cl. 242-56.800.
Moore, Jeffrey E.; Evans, Brett A.; and Hansen, Richard, 4,715,979, Cl. 252-91.000.
Muckenfuhs, Delmar R.; and Van Coney, Robert H., 4,696,416, Cl. 222-109.000.
Mueller, Frank J., 4,671,886, Cl. 252-140.000.
Norris, Russell, 4,663,198, Cl. 427-264.000.
Oh, Young S.; and Gosselink, Eugene P., 4,664,848, Cl. 252-547.000.
Oh, Young S.; Dahlgren, Richard M.; and Russell, Glen D., 4,704,272, Cl. 424-70.000.
Ohren, Tom H., 4,666,065, Cl. 222-109.000.
Oueilette, William R.; Alcombright, Daniel S.; Curro, John J.; and Linman, E. Kelly, 4,637,819, Cl. 604-369.000.
Parran, John J., Jr.; and Sakkab, Nabil Y., 4,684,518, Cl. 424-52.000.
Purves, Edward R.; and Thomas, Robert F., 4,654,221, Cl. 426-609.000.
Reising, George S.; and Dragoo, Jerry L., 4,681,580, Cl. 604-385.00A.
Ridley, Gordon, 4,678,593, Cl. 252-131.000.
Roselle, Brian J.; and Weatherby, Dennis W., 4,714,562, Cl. 252-94.000.
Rubingh, Donn N.; and Gosselink, Eugene P., 4,659,802, Cl. 528-405.000.
Rubingh, Donn N.; and Gosselink, Eugene P., 4,661,288, Cl. 252-545.000.
Russell, Alan, 4,657,595, Cl. 106-277.000.
Ryan, Leslie D., 4,663,154, Cl. 424-54.000.
Sampathkumar, Padmini, 4,670,252, Cl. 424-53.000.
Sampathkumar, Padmini, 4,716,035, Cl. 424-52.000.
Saud, Abel, 4,704,224, Cl. 252-132.000.
Seiden, Paul, 4,664,921, Cl. 426-94.000.
Seiden, Paul; and Mishkin, Martin A., 4,680,184, Cl. 426-654.000.
Sevenants, Michael R., 4,675,198, Cl. 426-425.000.
Shikata, Hiroaki; Turner, Jerry; Hirotsu, Dennis O.; and Burnett, Susan E., 4,661,102, Cl. 604-385.00A.
Siklosi, Michael P., 4,692,277, Cl. 252-558.000.
Small, Leonard E.; Garrison, Paul H., Jr.; Winkler, William M.; Seaman, Sharon A.; and Papa, Alyce J., 4,673,525, Cl. 252-132.000.
Smith, James P., 4,661,360, Cl. 426-94.000.
Snyder, William E., 4,708,813, Cl. 252-90.000.
Steuri, Christian, 4,636,329, Cl. 252-106.000.
Strampach, Norman A.; Cerchio, Vincent L., Jr.; and Schmidt, William W., 4,652,390, Cl. 252-92.000.
Toussant, John W.; and Blaney, Ted L., 4,681,579, Cl. 604-385.00R.
Toussant, John W.; and Hasse, Margaret H., 4,699,622, Cl. 604-389.000.
Trinh, Toan; Wahl, Errol H.; Swartley, Donald M.; and Hemingway, Ronald L., 4,661,269, Cl. 252-8.800.
Trinh, Toan; and Scheper, John S., 4,693,840, Cl. 252-174.230.
Trokhan, Paul D., 4,637,859, Cl. 162-109.000.
Tsai, Chee-Hway, 4,639,375, Cl. 426-49.000.
Vander Meer, James M., 4,676,921, Cl. 252-174.230.
Van Tillburg, Kees J., 4,687,478, Cl. 604-387.000.
Weinshenker, Eugene; and Dirksing, Robert S., 4,664,651, Cl. 604-115.000.
Weisman, Paul T.; Houghton, Dawn I.; and Gellert, Dale A., 4,673,402, Cl. 604-368.000.
Wevers, Jean; Barrat, Christian R.; and Hardy, Frederick E., 4,714,565, Cl. 252-174.190.
Wise, Rodney M.; and Ziek, Robert R., Jr., 4,657,693, Cl. 252-174.210.
Woo, Ricky A., 4,701,319, Cl. 424-52.000.
Young, Jerry D.; and Seiden, Paul, 4,650,686, Cl. 426-321.000.
Zald, Roberta L.; Adams, Stanley L.; and Welch, David P., 4,676,447, Cl. 242-58.400.
Zimmerer, Roger E., 4,657,537, Cl. 604-360.000.
Procter-Gregg, H. David: *See*—
Kober, Carl L.; and Procter-Gregg, H. David, 4,686,475, Cl. 324-349.000.
Proctor, Edward A. Gang form, 4,695,031, 9-22-87, Cl. 249-91.000.
Proctor & Gamble Company, The: *See*—
Brandt, Kerryn A.; Goldman, Stephen A.; and Inglin, Thomas A., 4,654,039, Cl. 604-368.000.
Brock, Earl D., 4,663,157, Cl. 424-59.000.
Proctor, John D.; Towns, Edward J.; and Brown, Edward M., to Lermer Packaging Corp. Tightly sealing safety cap, 4,694,968, 9-22-87, Cl. 215-224.000.

Proctor, Raymond J.; Atwell, Thomas L.; Lingren, Clinton L.; and Miller, James F., to Gamma-Metrics. Bulk material analyzer calibration block. 4,694,165, 9-15-87, Cl. 250-252.100.
Proctor, Rudy R., and Reinstein, Fred M., to Turbo Tek Enterprises, Inc. Spraying device having controlled additive fluid feed and a telescoping spray tube assembly. 4,682,734, 7-28-87, Cl. 239-315.000.
Procter & Schwartz, Inc.: *See*—
Dussan V. Benicio L., 4,674,627, Cl. 198-621.000.
Procter & Schwartz, Limited: *See*—
Sclater, Alexander; Cunningham, Wallace; and Green, Graham, 4,674,159, Cl. 26-93.000.
Procyk, Frank J.: *See*—
Kirsch, Howard C.; and Procyk, Frank J., 4,679,172, Cl. 365-222.000.
Prodatek Corporation: *See*—
Pefley, Richard K.; and Pullman, James B., 4,651,682, Cl. 123-1.00A.
Prodeco, Inc.: *See*—
Worthington, Ralph E.; and Maglics, Alex, 4,652,431, Cl. 423-10.000.
Worthington, Ralph E.; and Maglics, Alex, 4,652,432, Cl. 423-10.000.
Prodel, Jacques: *See*—
Prodel, Maurice; and Prodel, Jacques, 4,646,245, Cl. 364-468.000.
Prodel, Maurice; and Prodel, Jacques. Modular installation for assembling and/or machining parts, with work stations including keyboard-display devices. 4,646,245, 2-24-87, Cl. 364-468.000.
Prodel, Michel H. M. F., to SICAME Societe Industrielle de Construction d'Appareils et de Materiel Electriques. Insulated branching connector for electrical cables. 4,643,512, 2-17-87, Cl. 339-248.00R.
Prodent Ges. Fuer Zahnmed. Bedarfsartikel mbH: *See*—
Hansen, Jens M., 4,643,678, Cl. 433-217.100.
Prods, Vittorio. Device for separating airborne particles into grain size classes. 4,639,311, 1-27-87, Cl. 209-143.000.
Prods, Vittorio. Device for the separation of airborne particles into grain size classes. 4,704,527, 11-3-87, Cl. 250-308.000.
Prods, Vittorio. Device for the separation of airborne particles into classes by grain size. 4,704,528, 11-3-87, Cl. 250-308.000.
Producers Color Service, Inc.: *See*—
Fedder, Stephen C.; and Skudrna, Anthony J., 4,641,152, Cl. 346-137.000.
Product Design & Development, Inc.: *See*—
Ecker, Warren S.; Ecker, Howard J.; Ecker, Robert S.; and Sterner, Maurice E., Jr., 4,694,552, Cl. 29-418.000.
Sterner, Maurice E., Jr., 4,683,676, Cl. 49-181.000.
Product Innovation Limited: *See*—
Frank, Peter, 4,688,025, Cl. 340-571.000.
Product Investment Incorporated: *See*—
Henning, John C., 4,678,079, Cl. 206-279.000.
Henning, John C., 4,690,292, Cl. 215-201.000.
Product Research and Development: *See*—
Hartley, E. Dale; and Hartley, F. Scott, 4,684,332, Cl. 417-397.000.
Product Resources International, Inc.: *See*—
Mackles, Leonard, 4,639,367, Cl. 424-45.000.
Product Suppliers AG: *See*—
Aarts, Mathias L. C., 4,689,987, Cl. 73-49.300.
Production Control Information (PCI) Limited: *See*—
Benson, Keith; and McCormack, John, 4,682,261, Cl. 364-468.000.
Production Equipment & Engineering Co.: *See*—
Rosser, Michael C., 4,660,815, Cl. 269-22.000.
Production Monitoring and Control Co.: *See*—
Hirsch, Michael; Kristensen, Peter D.; and Dunn, William W., 4,672,845, Cl. 73-151.000.
Productive Instrument & Machine Inc.: *See*—
Skipper, Claud, 4,690,167, Cl. 137-382.000.
Productive Products Limited: *See*—
Voorhees, John L., 4,699,090, Cl. 119-96.000.
Productronix, Inc.: *See*—
Selga, Gerald W., 4,671,124, Cl. 73-862.530.
Products Research & Chemical Corporation: *See*—
Kay, Carl J., 4,704,839, Cl. 52-732.000.
Produits Cellulosiques Isolants-Procelis: *See*—
de l'Eprevier, Alain G.; and Garnier, Albert, 4,677,018, Cl. 428-218.000.
Garnier, Albert; and de l'Eprevier, Alain G., 4,671,911, Cl. 264-60.000.
Produits Chimiques Ugine Kuhlmann: *See*—
Cholley, Jean-Marie, 4,643,736, Cl. 8-108.100.
Vinatier, Bernard, 4,692,295, Cl. 264-291.000.
Proebsting, Robert J., to Thomson Components - Mostek Corporation. Error-correcting circuit having a reduced syndrome word. 4,649,540, 3-10-87, Cl. 371-37.000.
Proebsting, Robert J., to Thomson Components - Mostek Corporation. MOS transistor circuits having matched channel width and length dimensions. 4,714,840, 12-22-87, Cl. 307-443.000.
Proebsting, Robert J., to Thomson Components-Mostek Corporation. FET differential amplifier. 4,716,380, 12-29-87, Cl. 330-253.000.
Proehl, Scott: *See*—
Holycross, Mark; Saccocio, Edward J.; and Proehl, Scott, 4,648,699, Cl. 354-297.000.
Proellochs, Francois, to Samel, S.A. Assembly comprising a flat housing fixed on a textile or a thin synthetic or natural material. 4,645,102, 2-24-87, Cl. 224-178.000.
Proetta, William J.: *See*—
Liuzzo, James G.; and Proetta, William J., 4,698,618, Cl. 340-365.00R.
Profera, Charles E., Jr., to RCA Corporation. Beam forming network for circularly polarized shaped beam antenna system. 4,680,587, 9-1-87, Cl. 342-365.000.
Profera, Charles E., Jr.: *See*—
Praba, Krishna; and Profera, Charles E., Jr., 4,679,051, Cl. 343-111.000.
Professional Agricultural Management, Inc.: *See*—
Arnold, Scott, 4,652,294, Cl. 71-28.000.
Professional Care Products, Inc.: *See*—
Austin, Gerald W., 4,685,913, Cl. 604-349.000.
Professional Medical Products, Inc.: *See*—
Davis, John W.; Corley, Harvey D.; Boudreau, Michael P., Jr.; Laughlin, J. Larry, 4,651,258, Cl. 362-147.000.
Teed, Richard K., 4,645,501, Cl. 604-390.000.
Professional Packaging Limited: *See*—
Holmes, Gordon W., 4,715,492, Cl. 206-0.830.
Professional Tape Converters, Inc.: *See*—
Boyce, Elvin L., 4,688,566, Cl. 128-206.190.
Professional Video Association, Inc.: *See*—
Horan, Michael J., 4,648,604, Cl. 273-292.000.
Proff, Dwayne E.: *See*—
Fuller, Robert L., Jr., and Proff, Dwayne E., 4,643,621, Cl. 408-57.000.
Profile Diagnostic Sciences Inc.: *See*—
Wang, Chia-Gee, 4,663,277, Cl. 435-5.000.
Profitt, Mark V.; and Libert, James T., to Square D Company. Two-speed enable for jam under load and phase loss. 4,647,525, 3-3-87, Cl. 318-395.000.
Profit, Grant. Protective device for goaltender hockey stick. 4,651,9[illegible], 3-24-87, Cl. 273-67.00A.
Profit Technology, Inc.: *See*—
Bedrij, Orest J., 4,695,975, Cl. 364-900.000.
Profitt, James A.: *See*—
Ong, Helen H.; Anderson, Vernon B.; and Profitt, James A., 4,668,695, Cl. 514-431.000.
Ong, Helen H.; and Profitt, James A., 4,672,130, Cl. 558-224.00.
Profitt, Inc.: *See*—
May, Robert H.; and Burgoyne, Robert A., 4,672,95[illegible], Cl. 128-136.000.
PROGIF: *See*—
Denimal, Philippe, 4,638,354, Cl. 358-106.000.
Progenics, Inc.: *See*—
Appleweig, Norman, 4,680,289, Cl. 514-172.000.
Coleman, Douglas L.; and Appleweig, Norman, 4,666,89[illegible], Cl. 514-177.000.
Progresco, S.A.: *See*—
Mena, Jesus G., 4,641,459, Cl. 49-35.000.
Progress-Elektrogerate Mauz & Pfeiffer GmbH & Co.: *See*—
Jacob, Gernot; and Radom, Leon, 4,642,940, Cl. 15-321.000.
Jacob, Gernot; and Radom, Leon, 4,656,688, Cl. 15-327.00F.
Jacob, Gernot; and Radom, Leon, 4,675,486, Cl. 15-374.000.
Jacob, Gernot; and Radom, Leon, 4,715,084, Cl. 15-328.000.
Progressive Assembly Machine Co. Inc.: *See*—
Rasmussen, Robert, 4,648,533, Cl. 222-309.000.
Rasmussen, Robert, 4,690,310, Cl. 222-309.000.
Progressive Dynamics, Inc.: *See*—
Eccleston, Larry; Cook, James C., II; and Goodrich, Earl T., II, 4,634,975, Cl. 324-232.000.
Eccleston, Larry; Goodrich, Earl R., II; and Swander, Mary, 4,668,942, Cl. 340-551.000.
Progressive Machine Co., Inc.: *See*—
Honcharenko, Art, 4,681,275, Cl. 242-67.10R.
Progressive Tool & Industries Company: *See*—
Freeman, Herbert J., 4,637,133, Cl. 29-727.000.
Prohaska, Hans, to SWF Auto-Electric GmbH. Windshield wiper system. 4,701,971, 10-27-87, Cl. 15-250.210.
Prohaska, Hans: *See*—
Andrei-Alexandru, Marcel; Kofink, Wolfgang; and Prohaska, Hans, 4,652,781, Cl. 310-83.000.
Prohaska, Helmut, to Folienwalzwerk Brueder Teich Aktiengesellschaft. Pack and process for the manufacture thereof. 4,638,911, 1-27-87, Cl. 206-611.000.
Prohaska, Otto, to Ottosensor Corporation. Probe for medical application. 4,682,602, 7-28-87, Cl. 128-635.000.
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Proizvolstvennoe Obiedinenie "Norma": *See*—
Teder, Leonid O.; Org, Tit A.; Lauri, Vaino G.; and Aas, Arth[illegible], 4,637,102, Cl. 24-642.000.
Projectina Heerbrugg AG: *See*—
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Prokic-Immel, Ricarda: *See*—
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Prokofiev, Sergei I.: *See*—
Korobchenko, Leonid G.; and Prokofiev, Sergei I., 4,634,869, Cl. 250-328.000.
Prokop, James A.; and Truehart, David C., to Lull Engineering Company, Inc. Divided flow self-leveling system. 4,683,802, 8-4-87, Cl. 91-516.000.
Prokop, Raymond A., to United Technologies Automotive, Inc. Fuse covering for an electrical conductor and method for making the fuse covering. 4,682,136, 7-21-87, Cl. 335-282.000.

...kogen, Valentine: See—
Fayngersh, Zachary; Minnes, Valery; and Prokopets, Valentine, 4,646,693, Cl. 123-238.000
...ster, Ferdinand; Sulzbach, Hans-Michael; Rohrig, Lothar; and Fuhrbach, Hans-Wilhelm, to Maschinenfabrik Hennecke GmbH. Closure unit for molding tools, 4,693,448, 9-15-87, Cl. 249-162.000
...ch, Karl-Heinz: See—
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...cha, Georg: See—
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...l Molding Co., Inc.: See—
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...z Product and Marketing GmbH: See—
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...MA Produkt-und Marketing Gesellschaft mbH: See—
Kaiser, Siegmund H., 4,664,020, Cl. 92-88.000
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...ni Industrie: See—
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...nsberger, Jon, to Conflux International, Inc. Load limited swivel connector, 4,687,365, 8-18-87, Cl. 403-2.000
...ation Corporation: See—
Lee, Leslie A.; Lybeck, Lynn V.; Perloff, David S.; and Mallory, Chester L., 4,679,137, Cl. 364-188.000
Perloff, David S.; and Mallory, Chester, 4,703,252, Cl. 324-62.000
...ng Industries Inc.: See—
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...owicz, Andrzej: See—
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...ns, Mark T.: See—
Burns, Daniel J.; Eldering, Charles A.; and Pronobis, Mark T., 4,699,587, Cl. 324-73.000R
...ason, Paul F., to Allied Corporation. Fiber optic connector, 4,687,295, 2-24-87, Cl. 350/96.20D
...ions Service Facilities, Inc.: See—
Campbell, David L., 4,712,650, Cl. 186-41.000
...ments, Catherine. Neonatal blanket, 4,712,263, 12-15-87, Cl. 5/81.000
...ip, Gerrit: See—
Beckermann, Jurgen; Borbe, Harald; Graf, Erich; Hilboll, Gerd; and Prop, Gerrit, 4,661,487, Cl. 514-252.000
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...er Manufacturing Co. Inc.: See—
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...n, Clarence E.; and Kerr, J. Russell. Hanger assembly, 4,659,051, 4-21-87, Cl. 248-346.000
...n, Clarence E.; and Kerr, J. Russell. Hanger assembly, 4,682,457, 7-28-87, Cl. 52-118.000
...er Manufacturing Co., Inc.: See—
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Schmidt, Otto H.; Heine, Helmut A.; and Rosenbusch, Helmut, 4,684,227, Cl. 351-205.000
...ner, Wilhelm; and Knoll, Hans-Jurgen, to Benz & Hilgers GmbH. ...ss-reduction cover emplacement device, 4,703,607, 11-3-87, Cl. ...87.000
...dary Technology, Inc.: See—
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Bartholomew, Donald D., 4,683,917, Cl. 138-121.000
...r, Larry D.: See—
...ler, Elmer N.; Treadwell, Stephen S., III; DiFloria, Thomas J.; Propst, Larry D.; Kushmaul, Richard T.; Abney, Paul A.; Stevenson, Kenneth; and Thomaston, C. Kenneth, 4,686,540, Cl. ...98.11.000R
...per, Mark A.: See—
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...ing, Inc.: See—
...ithe, David C.; and Burt, George A., Jr., 4,702,101, Cl. 73-1.00R
Prorok, Maryfrances: See—
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Prosser, Havard J.: See—
Allen, William M.; Sansom, Bernard F.; Wilson, Alan D.; Prosser, Havard J.; and Geoffman, David M., 4,661,339, Cl. 424-486.000
Prost, Claude D. Soil plugger with plug ejector, 4,633,957, 1-6-87, Cl. 172-22.000
Prost, Jean-Michel: See—
Amory, Henri; and Prost, Jean-Michel, 4,681,527, Cl. 425-546.000
Prost, Maurice; de Claviere, Michel; and Polster, Peter, to Sanofi. Steroid decahydroquinolinol derivatives, and pharmaceutical compositions and methods using them, 4,663,330, 5-5-87, Cl. 514-312.000
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Fogleman, H. Frank; and Parrish, Randall E., 4,671,086, Cl. 70-277.000
Fogleman, H. Frank; and Parrish, Randall E., 4,686,912, Cl. 109-59.00T
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Protectaire Systems Co.: See—
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Protective Coatings, Inc.: See—
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Protective Plastics Limited: See—
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Protective Treatments, Inc.: See—
Gerace, Michael J.; Krysiak, Gary D.; and Schiappacasse, Russell F., 4,699,940, Cl. 524-296.000
Gerace, Michael J.; Krysiak, Gary D.; and Schiappacasse, Russell F., 4,710,411, Cl. 428-34.000
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Baudro, Thomas O.; and Leonard, John S., 4,683,110, Cl. 376-261.000
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Proto, Salvatore. Retractable auxiliary and emergency propulsion device for small craft, 4,668,197, 5-26-87, Cl. 440-54.000
Proto-Tel, Inc.: See—
Hotchkiss, Kenneth W.; and Woodward, Arthur B., 4,697,720, Cl. 220-337.000
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Reed, Ronald G., 4,654,517, Cl. 250-201.000
Reed, Ronald G.; and Gustafson, Michael, 4,654,956, Cl. 29-568.000
Proton AG: See—
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Prototech Company: See—
Juda, Walter, 4,661,425, Cl. 429-206.000
Lindstrom, Robert W., 4,647,359, Cl. 204-294.000
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Protz, Rudolf, to Messerschmitt-Bolkow-Blohm GmbH. Sensing device for ascertaining imaging errors, 4,666,298, 5-19-87, Cl. 356-121.000

Protzman, Thomas F., to A. E. Staley Manufacturing Company. Unsaturated poly (alpha-hydroxy acid) copolymers. 4,644,038, 2-17-87, Cl. 525-412.000.

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Proulx, Raymond E.; and Rauscher, Frank J. Venipuncture site protector. 4,679,553, 7-14-87, Cl. 128-133.000.

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Prouteau, Philippe. *See*—
Laville, Bernard; and Prouteau, Philippe, 4,696,511, Cl. 296-216.000.

Proutt, Gordon R. Cover for a golf club handle. 4,662,415, 5-5-87, Cl. 150-52.00G.

Prouty, Deane L. Collapsible holder for crash cymbals. 4,666,110, 5-19-87, Cl. 248-122.000.

Prouty, Robert E.; and Cunningham, S. Michael, to Hamilton Standard Controls, Inc. Soft-contact solenoid contactor. 4,706,037, 11-10-87, Cl. 335-248.000.

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Prouza, Harry A.; and Voss, Herman G., to Minnesota Mining and Manufacturing Company. Drag mechanism for fly fishing reel. 4,703,902, 11-3-87, Cl. 242-84.51R.

Provence, John D.; Brown, Frederick W.; and Jones, John L., to Texas Instruments Incorporated. Dual detector system for determining endpoint of plasma etch process. 4,695,700, 9-22-87, Cl. 219-121.0PD.

Provenda Marketing AG. *See*—
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Provily, Zeger. *See*—
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Provin, Gerard; Forestiere, Alain; and Commereuc, Dominique, to Institut Francais du Petrole. Nickel composition soluble in hydrocarbons. 4,716,239, 12-29-87, Cl. 556-147.000.

Provoit, Monte B.; and Taggart, Peter C. Log splitting machine. 4,653,556, 3-31-87, Cl. 144-3.00K.

Provonchee, Richard B.; and Renn, Donald W., to FMC Corporation. Colony replicating device. 4,659,672, 4-21-87, Cl. 435-287.000.

Provonchee, Richard B., to FMC Corporation. Indicator device for substance receiving wells in a microtiter plate. 4,701,754, 10-20-87, Cl. 340-815.030.

Provost, Charles. Post-combustion gas-burner of a hydrogen peroxide emulsion. 4,642,045, 2-10-87, Cl. 431-4.000.

Provost, George; and Ouellette, Marcel C., to Actief, N.V. Self-engaging separable fastener. 4,654,246, 3-31-87, Cl. 428-88.000.

Provost, George A.; Trask, William F.; and Rocha, Gerald F., to Actief, N.V. Method and apparatus for slitting and providing selvedge by ultrasonic means on hook and loop type fastener tapes. 4,662,037, 5-5-87, Cl. 24-447.000.

Provost, George A., to Actief N.V., ABN Trust Company (Curacao) N.V. Strip fastener material. 4,670,960, 6-9-87, Cl. 29-415.000.

Provost, George A., to Actief N.V. ABN Trust Company (Curacao) N.V. Strip fastener material. 4,672,721, 6-16-87, Cl. 24-442.000.

Provost, Lawrence A.; and Boyer, Robert D., to Kent-Moore Corporation. Shim selector. 4,642,900, 2-17-87, Cl. 33-169.00B.

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Proximity Controls, Inc.. *See*—
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Prsala, Jan. Exercise device to support user's body. 4,678,187, 7-7-87, Cl. 272-144.000.

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Astigiano, Florio; and Kaminski, Ernesto, 4,657,452, Cl. 409-190.000.

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Walker, Lonnie R.; Berryman, Leslie N.; Guffee, Larry E.; Ripley, David E.; and Prucha, David A., 4,715,721, Cl. 366-132.000.

Prucher, Helmut. *See*—
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Pruchon, Philippe, to Cogema, Compagnie Generale des Matieres Nucleaires. Ventilation system for an isolation enclosure. 4,704,951, 11-10-87, Cl. 98-1.500.

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Chang, Wen-Hsuan; Dufford, Edward L.; Erikson, J. Alden; and Prucnal, Paul J., 4,678,835, Cl. 525-100.000.
Chang, Wen-Hsuan; Blackburn, William P.; Prucnal, Paul J.; and Dufford, Edward L., 4,684,697, Cl. 525-100.000.

Pruden, Charles W.; McEvoy, Alfred P.; and McEvoy, Charles S., to Western Extrusions Corporation. Wood-clad aluminum window frame and associated window assembly. 4,694,612, 9-22-87, Cl. 49-445.000.

Pruden, James F., to Lyphomed, Inc. Cover for medicinal vial. 4,671,331, 6-9-87, Cl. 141-98.000.

Pruden, Samuel H., to Cushman Industries, Incorporated. Long-stroke high-force chuck. 4,667,970, 5-26-87, Cl. 279-120.000.

Prudenziati, Giorgio, to D.M.D.S.r.l. Removable steam iron sole plate. 4,642,922, 2-17-87, Cl. 38-81.000.

Prud'Homme, Christian, to Rhone-Poulenc Specialities Chimiques. Selective production of dimethyldichlorosilane. 4,645,851, 2-24-87, Cl. 556-472.000.

Prud'Homme, Christian; and Simon, Gerard, to Rhone-Poulenc Specialites Chimiques. Direct catalytic synthesis of dimethyldichlorosilane from methyl chloride and silicon. 4,656,301, 4-7-87, Cl. 556-472.00.

Prud'Homme, Christian; and Simon, Gerard, to Rhone-Poulenc Specialites Chimiques. Direct catalytic synthesis of dimethyldichlorosilane from methyl chloride and silicon. 4,661,613, 4-28-87, Cl. 556-472.00.

Prud'Homme, Christian, to Rhone-Poulenc Specialites Chimiques. Selective production of dimethyldichlorosilane. 4,684,741, 8-4-87, Cl. 556-472.000.

Prudhomme, Pierre. *See*—
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Prud'Homme, Pierre J. A.. *See*—
Demopoulos, George P.; Pouskouleli, George; and Prud'Homme, Pierre J. A., 4,654,145, Cl. 210-638.000.

Prud'Homme Van Reine, Peter R.; and Siebers, Gerardus H. M., to U.S. Philips Corporation. Gas-tight sintered translucent aluminum oxide and method. 4,699,774, 10-13-87, Cl. 423-625.000.

Prud'Hon, Gerard C.. *See*—
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Prueter, Elton D., to Dow Chemical Company, The. Pipe aligning and joining. 4,655,481, 4-7-87, Cl. 285-24.000.

Prueter, William P.. *See*—
Kidwell, John H.; Prueter, William P.; and Eaton, Andrew W., 4,648,890, Cl. 55-347.000.

Pruett, Earl M., to Bertucci, Enrico, a part interest. Disposable injection transmitter. 4,673,399, 6-16-87, Cl. 604-272.000.

Pruett, Wayne P.; Wang, Richard H. S.; Hilbert, Samuel D.; and Weaver, Max A., to Eastman Kodak Company. UV-absorbing condensation polymeric composition. 4,661,566, 4-28-87, Cl. 525-445.000.

Pruett, Wayne P.; Wang, Richard H. S.; Hilbert, Samuel D.; and Weaver, Max A., to Eastman Kodak Company. UV-absorbing condensation polymeric compositions and products therefrom. 4,707,537, 11-17-87, Cl. 528-288.000.

Pruett, Wayne P.. *See*—
Weaver, James C.; and Pruett, Wayne P., 4,699,942, Cl. 524-338.000.

Prufer, James M.. *See*—
Prufer, Max H.; and Prufer, James M., 4,673,010, Cl. 141-382.000.

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- Leydorf, George F., Jr.; and Pulick, Michael A., 4,699,100, Cl. 123-193.0CH.
- Leydorf, George F., Jr.; and Pulick, Michael A., 4,708,105, Cl. 123-193.0CH.

Pulido, Robert J.: *See*—
- Docktor, Kenneth E.; and Pulido, Robert J., 4,664,771, Cl. 204-297.00W.

Pulkkinen, Jorma, to Neste Oy. Lined rock cistern or tunnel. 4,695,188, 9-22-87, Cl. 405-150.000.

Pullan, Brian R. Apparatus for detecting and determining the distribution of radioactivity on a medium. 4,639,601, 1-27-87, Cl. 250-385.000.

Pullen, Francis J.: *See*—
Wakefield, Barry R.; and Pullen, Francis J., 4,689,854, Cl. 17-1.00R.

Pullen, Keats A., Jr. High sensitivity signal detector. 4,639,623, 1-27-87, Cl. 307-492.000.

Pulliainen, Juha: *See*—
Wikman, Goran; Kotilainen, Timo; Pulliainen, Juha; and Lindqvist, Gustav, 4,715,305, Cl. 114-40.000.

Pullman, Inc.: *See*—
Miller, Roy W., 4,655,365, Cl. 220-314.000.

Pullman, James B.: *See*—
Pefley, Richard K.; and Pullman, James B., 4,651,682, Cl. 123-1.00A.

Pullman-Peabody, Inc.: *See*—
Wise, Paul W.; and Limanen, Kenneth, 4,653,662, Cl. 220-345.000.

Pullman Rail Leasing Inc.: *See*—
Miller, Roy W., 4,690,070, Cl. 105-377.000.
Miller, Roy W., 4,695,207, Cl. 406-130.000.
Miller, Roy W., 4,696,088, Cl. 29-401.100.
Miller, Roy W., 4,696,237, Cl. 105-248.000.
Rehbein, Richard E., 4,697,528, Cl. 105-358.000.

Pullman Standard Inc.: *See*—
Przybylinski, Phillip G.; and Bodinger, Donald C., 4,633,787, Cl. 105-406.100.
Tylisz, Eugene R.; and Johnstone, Bradford, 4,651,650, Cl. 105-218.200.
Wille, Herbert S.; Przybylinski, Phillip G.; and Raidt, Joe B., 4,690,072, Cl. 105-406.100.

Pulkila, Arvo. Tank for growing fish. 4,655,169, 4-7-87, Cl. 119-3.000.

Puls, Bernhard, to Standard Elektrik Lorenz Aktiengesellschaft. Equipment for the stereophonic sound reproduction in a television receiver. 4,646,349, 2-24-87, Cl. 381-24.000.

Puls, Walter: *See*—
Jungz, Bodo; Krause, Hans P.; Muller, Lutz; and Puls, Walter, 4,639,436, Cl. 514-24.000.

Pulse Electronics, Inc.: *See*—
Bezos, Angel P.; and Fernandez, Emilio A., 4,654,629, Cl. 340-87.000.
Fernandez, Emilio A., 4,638,237, Cl. 320-48.000.
Martin, Gregory C., 4,691,563, Cl. 73-129.000.

Pulsepower, Inc.: *See*—
Elmore, Lester C., 4,654,808, Cl. 434-16.000.

Pulsifer, Paul L.: *See*—
Conway, Larry J.; and Pulsifer, Paul L., 4,679,168, Cl. 364-900.000.

Pulskamp, Nicholas R. Method and apparatus for manufacturing printed tablets. 4,671,719, 6-9-87, Cl. 412-2.000.

Pulverer, Gerhard, to Dr. Madaus & Co. Methods of increasing tolerance to radiotherapy and chemotherapy using propioni bacteria. 4,647,456, 3-3-87, Cl. 424-95.000.

Pulvermuller, Peter, to Wuerttembergische Metallwarenfabrik AG. Coffee percolator. 4,665,808, 5-19-87, Cl. 99-285.000.

Pulwer, Mitchell J., and Gaertner, Van R., to Monsanto Company. Process for preparing N-phosphonomethylglycine and derivatives. 4,650,813, 3-17-87, Cl. 260-502.50F.

Pulwer, Mitchell J.: *See*—
Balthazor, Terry M.; and Pulwer, Mitchell J., 4,654,429, Cl. 558-145.000.
Miller, William H.; Reitz, David B.; and Pulwer, Mitchell J., 4,657,705, Cl. 260-502.50F.

Pulz, Otto: *See*—
Grutte, Friedrich-Karl; Petzold, Heinrich; Walter, Ulrich; Bogs, Gunhild; Domeratzky, Joachim; Gartner, Helmut; Schulze, Jurgen; Zunft, Hans-Joachim; Pulz, Otto; Luft, Christa; Muller, Walheide; Wolk, Petra; Dahlke, Hannelore; and Volkmer, Margret, 4,692,340, Cl. 426-72.000.

Pum, Hannes: *See*—
Feyerl, Gunther; Kalteis, Augustin; and Pum, Hannes, 4,701,986, Cl. 28-142.000.

Pum, Reinhard: *See*—
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,678,168, Cl. 266-196.000.
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,697,274, Cl. 373-79.000.

PUMA AG Rudolf Dassler Sport: *See*—
Adam, Gunter, 4,691,926, Cl. 273-73.00J.
Dassler, Armin A.; and Bauer, Willi, 4,633,600, Cl. 36-134.000.
Dassler, Armin A.; and Bauer, Willi, 4,644,672, Cl. 36-134.000.
Dassler, Armin A.; and Bauer, Willi, 4,648,187, Cl. 36-134.000.
Dassler, Armin A., 4,703,445, Cl. 364-561.000.

Pummell, Ivan K.: *See*—
Green, LaVerne M.; Vannoni, Adrio L.; and Pummell, Ivan K., 4,696,096, Cl. 29-829.000.

Pumo, Joseph; Atwell, William D., Jr.; and McAlister, Doyle V., to Motorola, Inc. High speed state machine. 4,663,545, 5-5-87, Cl. 307-463.000.

Pump Engineer Associates, Inc.: *See*—
McLaughlin, Wayne C.; Recker, William J.; Modesitt, Phillip C.; and Francescon, Paul K., 4,678,040, Cl. 166-370.000.

Pumphrey, John G.; and Shanks, Robert E., to Abbott Laboratories. Measurement of optical density via nephenometry. 4,687,336, 8-18-87, Cl. 356-416.000.

Pun, Edwin Y. B.: *See*—
Barnard, Joseph A.; and Pun, Edwin Y. B., 4,663,761, Cl. 372-45.000.

Punako, Stephen; and MacAvoy, David W., to Allied Corporation. Electrical connector assembly having anti-decoupling mechanism. 4,648,670, 3-10-87, Cl. 339-59.00R.

Punako, Stephen; Gallusser, David O.; and Williams, Warren R., Jr., to Allied Corporation. Retaining an insert in an electrical connector. 4,682,832, 7-28-87, Cl. 439-589.000.

Punako, Stephen: *See*—
Gallusser, David O.; and Punako, Stephen, 4,641,899, Cl. 339-59.00M.
Gallusser, David O.; and Punako, Stephen, 4,666,222, Cl. 339-14.00R.

Punater, Dinesh G.: *See*—
Graves, Gene E.; and Punater, Dinesh G., 4,659,030, Cl. 242-56.600.
Herman, John L.; Dessert, Robert A.; and Punater, Dinesh G., 4,705,199, Cl. 226-95.000.

Puncoch, Miloslav: *See*—
Johnson, Edward N.; and Puncoch, Miloslav, 4,687,162, Cl. 244-213.000.

Puncochar, Norbert L. Extension for socket tool drive system. 4,649,776, 3-17-87, Cl. 81-57.300.

Pund, Marvin L. Stereoscopic display. 4,649,425, 3-10-87, Cl. 358-88.000.

Pundt, Dieter: *See*—
Oetting, Hermann; Oberg, Hans-Joachim; Pundt, Dieter; and Binnewies, Willi, 4,669,443, Cl. 123-647.000.

Pung, Thomas F.: *See*—
Pearch, Dean A.; and Pung, Thomas F., 4,694,946, Cl. 192-85.0AA.

Pungor, Erno; Toth, Klara; Pal, Ferenc; Eros, Bela; Nagy, Jozsef; and Bihatsi, Laszlo, to Magyar Tudomanyos Akademia Kozponti Hivatala. Capacitive measuring element for oscillometric measurement of conductance of streaming solutions and method of determining the dimensions thereof. 4,634,982, 1-6-87, Cl. 324-448.000.

Pungor, Erno; Toth, Klara S.; Feher, Zsofia; Nagy, Geza; and Horvai, Gyorgy, to Richter Gedeon Vegyeszeti Gyar Rt.; and Budapesti Muszaki Egyetem. Method and an apparatus for performing routine analyses such as polarographic or spectrophotometric analysis. 4,673,295, 6-16-87, Cl. 356-440.000.

Punia, Harpal: *See*—
Komorowski, Robert; and Punia, Harpal, 4,644,864, Cl. 102-215.000.

Puntener, Alois: *See*—
Bowles, James B.; White, Marshall, Jr.; Puntener, Alois; Adam, Jean-Marie; and Loew, Peter, 4,652,269, Cl. 8-641.000.

Puntous, Rene: *See*—
Deschamps, Daniel; and Puntous, Rene, 4,712,393, Cl. 70-1.500.

Punwani, Dharam V.: *See*—
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Punzar, Marianne; Marti, Franz; Mercier, Robert; Tobler, Paul; and Buttiker, Rudolf, to Ciba-Geigy AG. Process for reacting cyanuric chloride with ammonia or with amines. 4,678,852, 7-7-87, Cl. 544-194.000.

Pupillo, Domenic S.; and Scheff, Luben, to General Motors Corporation. Closure latch. 4,679,836, 7-14-87, Cl. 292-216.000.

Papp, Herwig; Soukup, Franz; and Reil, Wilhelm, to Tetra Pak Developpement S.A. Fluid pack with handle. 4,671,452, 6-9-87, Cl. 229-52.00B.

Puppel, Richard A. Supporting structure for air conditioner apparatus having an indoor and an outdoor unit. 4,662,189, 5-5-87, Cl. 62-449.000.

Purac Aktiebolag: *See*—
Molin, Nils I.; Welander, Thomas G.; Hansson, Bengt G.; Andersson, Per-Erik; and Annergren, Goran E., 4,659,471, Cl. 210-603.000.
Molin, Nils I.; Welander, Thomas G.; Hansson, Bengt G.; Andersson, Per-Erik; and Olsson, Bengt A. G., 4,663,043, Cl. 210-603.000.
Nordlund, Tore H.; and Ljungkvist, Lars E., 4,659,472, Cl. 210-609.000.
Nordlund, Tore H., 4,710,032, Cl. 366-156.000.

Purcaru, Bebe-Titu, to Kraftwerk Union Aktiengesellschaft. Turbomachine blade. 4,695,228, 9-22-87, Cl. 416-223.00A.

Purcell, Billy D.; and Toutant, Edward E., to International Business Machines Corporation. Ribbon cartridge motion control with a non-concentric drive. 4,650,356, 3-17-87, Cl. 400-208.000.

Purcell, Billy D.: *See*—
Halter, Edward Arnold; Purcell, Billy D.; and Toutant, Edward E., 4,636,098, Cl. 400-208.000.

Purcell, Glenn T., to Masco Corporation of Indiana. Faucet and spout construction. 4,649,958, 3-17-87, Cl. 137-801.000.

Purcell, John A.; Puglis, John T.; and Duckett, Steven W., to Sangamo Weston, Inc. Photomultiplier dynode coating materials and process. 4,639,638, 1-27-87, Cl. 313-534.000.

Purcell, John R.: *See*—
Burnett, Sibley C.; Purcell, John R.; and Horner, M. Harlan, 4,694,269, Cl. 335-216.000.
Chen, Wilkie Y.; Hsu, Yen-Hwa L.; and Purcell, John R., 4,658,229, Cl. 335-216.000.
Sarwinski, Raymond E.; Purcell, John R.; Parker, Judson W.; and Burnett, Sibley C., 4,680,936, Cl. 62-45.000.
Selvaggi, Jerry A.; and Purcell, John R., 4,702,825, Cl. 209-224.000.

Woolf, Lawrence D.; and Purcell, John R., 4,647,888, Cl. 335-216.000.
Purcell, Robert H.: *See—*
Daemer, Richard J.; Feinstone, Stephen M.; Gust, Ian D.; and Purcell, Robert H., 4,636,469, Cl. 435-237.000.
Purcell, Thomas; and Zard, Lydia, to Synthelabo. Dibenz[be]oxepinacetic acid derivatives, the preparation thereof and their application in therapy. 4,701,466, 10-20-87, Cl. 514-450.000.
Purcell, William P.: *See—*
Parish, Harlie A.; and Purcell, William P., 4,677,120, Cl. 514-549.000.
Purchase, Richard D.: *See—*
Oltman, John P.; Sulentic, Donald N.; and Purchase, Richard D., 4,714,158, Cl. 206-349.000.
Purchio, Anthony F.: *See—*
Kempe, Tomas; Purchio, Anthony F.; Collett, Marc S.; and DeLorbe, William J., 4,661,450, Cl. 435-172.300.
Purdes, Andrew J.; and Smith, Gregory C., to Texas Instruments Incorporated. Planarized dielectric deposited using plasma enhanced chemical vapor deposition. 4,681,653, 7-21-87, Cl. 156-614.000.
Purdes, Andrew J., to Texas Instruments Incorporated. Chemical beam epitaxy system. 4,699,085, 10-13-87, Cl. 118-725.000.
Purdue Frederick Company, The: *See—*
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Purdue, John C. Dehumidification method and apparatus. 4,668,249, 5-26-87, Cl. 55-33.000.
Purdue Research Foundation: *See—*
Chen, Li-Fu; and Hoff, Johan E., 4,716,218, Cl. 530-372.000.
Chrisman, Charles L.; Bidwell, Christopher A.; and Libey, George S, 4,697,546, Cl. 119-3.000.
Citron, Stephen J., 4,697,561, Cl. 123-339.000.
Cooper, James A., Jr., 4,635,083, Cl. 357-16.000.
Purdy, Edmund R.: *See—*
Hanlon, Stephen P.; Kerby, Walter L.; Purdy, Edmund R.; and Strom, James, 4,679,567, Cl. 128-675.000.
Purdy, George W., to G. Miller Machine Co., Inc. Quick release connectors. 4,645,373, 2-24-87, Cl. 403-341.000.
Purdy, Haydn V.; and McIntosh, Ronald C. Reproduction of character images, particularly for typesetting apparatus. 4,682,189, 7-21-87, Cl. 364-523.000.
Purdy, Michael L.; and Pue-Gilchrist, James D., to Northern Telecom Limited. Ribbon cable assembly. 4,660,125, 4-21-87, Cl. 361-391.000.
Puresevic, Peter J.; Taylor, Julian D.; and O'Sullivan, Denis. Closure device for containers. 4,673,095, 6-16-87, Cl. 215-220.000.
Puresheva, Bogdana L.: *See—*
Moshtev, Rafail V.; Manev, Vesselin G.; and Puresheva, Bogdana L., 4,693,950, Cl. 429-194.000.
Puretz, Joseph; Orloff, Jonathan H.; DeFreez, Richard K.; and Elliott, Richard A., to Oregon Graduate Center. Focused ion beam micromachining of optical surfaces in materials. 4,698,129, 10-6-87, Cl. 156-643.000.
Purex Corporation: *See—*
Evans, George D., 4,667,818, Cl. 206-219.000.
Flynn, Brian P.; Winetzky, Deborah S.; and Evans, George D., 4,636,328, Cl. 252-90.000.
Purfurst, Ernest H., to Halliburton Company. Sequential formation tester having three way normally closed valve. 4,671,322, 6-9-87, Cl. 137-625.270.
Purhonen, Hannu: *See—*
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Puri, Rajen, to Amoco Corporation. Method of underground conversion of coal. 4,662,439, 5-5-87, Cl. 166-245.000.
Puri, Rajen; Arri, Luis E.; and Gash, Bruce W., to Amoco Corporation. Combination air-blown and oxygen-blown underground coal gasification process. 4,662,443, 5-5-87, Cl. 166-261.000.
Purification Engineering, Inc.: *See—*
Wood, Louis L.; and Calton, Gary J., 4,650,755, Cl. 435-43.000.
Wood, Louis L.; and Carlton, Gary J., 4,710,467, Cl. 435-108.000.
Purifoy, George G., Jr. Conversion adapter for buoyancy compensator vest. 4,640,215, 2-3-87, Cl. 114-315.000.
Purinton, Charles S.: *See—*
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Puritan-Bennett Corporation: *See—*
Snook, James A.; Nelson, Thomas W.; Wyble, Marilyn S.; and Trimble, Russell L., 4,706,664, Cl. 128-204.230.
Puritscher, Ernst: *See—*
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Purkayastha, Indrajit: *See—*
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Purkott, Hans D., to Arkansas Precision Hydraulics, Inc. Multi-section sweep cycle compaction cylinder. 4,691,617, 9-8-87, Cl. 91-167.00R.
Purks, Charles V.: *See—*
Hall, Dale R.; Jackson, Robert L.; and Purks, Charles V., 4,670,483, Cl. 523-179.000.
Purlia, John M.; and Jankowski, Stephen J. Golf ball cleaner. 4,683,603, 8-4-87, Cl. 15-104.940.
Puroflow Corp.: *See—*
Warren, George H., 4,698,721, Cl. 361-110.000.
Purrett, John J.: *See—*
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Pursley, Matt D., to Lockheed Corporation. Heat flux meter. 4,653,934, 3-31-87, Cl. 374-31.000.
Pursoo, Johnson L.: *See—*
Pickering, Trevor P.; Paton, George A.; Gusack, James A.; Smith, Thomas E.; Sanders, John H.; Nichols, Sterling M.; Purso, Johnson L.; Lindsay, John W.; and Streetman, William E. 4,704,311, Cl. 427-393.100.
Purstinger, Franz; and Topf, Siegfried. Calibrator for extruded material. 4,685,879, 8-11-87, Cl. 425-383.000.
Purtell, Jack L.: *See—*
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Purtell, Rufus J.; and Purtell, Jack L. Steerable irrigation system. 4,664,316, 5-12-87, Cl. 239-735.000.
Purton, Robert G.: *See—*
Drever, Kenneth W.; and Purton, Robert G., 4,658,911, Cl. 172-776.000.
Purusar Corporation: *See—*
Grebinski, Thomas J., 4,695,327, Cl. 134-11.000.
Purves, Edward R.; and Thomas, Robert F., to Procter & Gamble Company, The. Anti-sticking compositions. 4,654,221, 3-31-87, Cl. 426-609.000.
Purvis, Edgar M.: *See—*
Reid, Edward A.; Cook, F. Bert; and Purvis, Edgar M., 4,691,512, Cl. 62-476.000.
Purvis, Edgar M., Jr.: *See—*
Reid, Edward A., Jr.; Cook, F. Bert; Winter, Edward M.; Purvis, Edgar M., Jr.; and Krause, Horatio H., Jr., 4,646,541, Cl. 62-476.000.
Purvis, Gene; Phelps, Russell; Dupler, Tim; Landoll, Patrick; and Landoll, Leonard, to Purvis, Gene; Phelps, Russell; and Dupler, Tim. Accumulator for airless spraying apparatus. 4,678,010, 7-7-87, Cl. 138-31.000.
Purvis, Gene; Phelps, Russell; and Dupler, Tim. Spraying method and apparatus. 4,708,088, 11-24-87, Cl. 118-300.000.
Purvis, Howard A.; and Stricker, Robert F. Wear sensor system. 4,655,077, 4-7-87, Cl. 73-86.000.
Purvis, Michael J.: *See—*
Krechel, Joseph L.; Purvis, Michael J.; and Ross, Paul F., II. 4,705,076, Cl. 137-883.000.
Purzycki, Kenneth L.; Ryan, Peter C.; and Leardi, Anthony J., to Givaudan Corporation. Method for deodorizing urinals and toilet bowls with fragranced gel blocks. 4,666,671, 5-19-87, Cl. 422-5.000.
Pusateri, John F.; Kidd, Thomas E.; and Lazalier, Glen R., to St. Joe Minerals Corporation. Method for the pyrometallurgical treatment of finely divided materials. 4,654,077, 3-31-87, Cl. 75-92.000.
Puscasu, Boris, to Ford Motor Company. Sensor assembly for a radiator mounted coolant level monitoring system. 4,638,291, 1-20-87, Cl. 340-59.000.
Pusch, Gunter. Broad band camouflage screen having a frequency dependent radar attenuation. 4,640,851, 2-3-87, Cl. 428-17.000.
Pusche, Herbert: *See—*
Hundeck, Joachim; Scholz, Harald; Hennen, Hans; Kuxdorf, Bernhard; and Pusche, Herbert, 4,672,142, Cl. 570-247.000.
Pusey, Donald K.: *See—*
Fountain, Frank S.; and Pusey, Donald K., 4,686,563, Cl. 360-38.100.
Puskarz, Stanley J.; Shalit, Herbert S.; and Singh, Shiva S., to Figgie International, Inc. Filling valves for cans and like containers. 4,688,608, 8-25-87, Cl. 141-39.000.
Puskas, Imre: *See—*
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Puski, Gabor; Hartman, Grant H., Jr.; and Talbott, Robert D., to Bristol-Myers Company. Process for preparing low phytate soy protein isolate. 4,697,004, 9-29-87, Cl. 530-378.000.
Pusl, Kenneth E., to Gartch Engineering. Apparatus for applying, maintaining and releasing a pulling force. 4,647,015, 3-3-87, Cl. 254-230.000.
Pust, Klaus O. M. Revolver handgun. 4,694,602, 9-22-87, Cl. 42-59.000.
Puszakowski, Stanley. Vibration damper and method of making the same. 4,653,169, 3-31-87, Cl. 29-445.000.
Putkonen, Erkki E.: *See—*
Jortikka, Markku J.; Forss, Eino H.; Heino, Harry A.; Lajunen, Erkki A.; Putkonen, Erkki E.; Julkunen, Toivo E.; and Lauria, Timo, 4,676,826, Cl. 75-51.100.
Putman, Robert L.; and Dinse, Merle L., to United Technologies Corporation. Active clearance control. 4,648,241, 3-10-87, Cl. 60-39.290.
Putnam, Leland K.: *See—*
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Putnam, Milton T.; and Putnam, William L., to United Recording Electronic Industries. Coaxial loudspeaker system. 4,706,295, 11-10-87, Cl. 381-156.000.
Putnam, Rob R., to Scosche Industries, Inc. Conversion kit for mounting a radio substituted for original radios in automotive vehicles. 4,660,789, 4-28-87, Cl. 248-27.300.
Putnam, William L.: *See—*
Putnam, Milton T.; and Putnam, William L., 4,706,295, Cl. 381-156.000.
Putsch, Peter-Ulrich; and Cremer, Heinz P., to Keiper Recaro GmbH & Co. Vehicle seat. 4,679,854, 7-14-87, Cl. 297-486.000.
Putt, James C.: *See—*
Briscoe, James A.; Putt, James C.; and Philips, Ronald W., II. 4,706,911, Cl. 244-134.00A.

Putter, Irving; and Stout, Daniel M., to Merck & Co., Inc. Novel synergistic compositions. 4,678,774, 7-7-87, Cl. 514-30.000.
Puttick, Anthony J.: *See*—
Bartels-Keith, James R., deceased; Puttick, Anthony J.; and Taylor, Lloyd D., 4,713,313, Cl. 430-251.000.
Putz, Jurgen: *See*—
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Putz, Lawrence J.: *See*—
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Putz, Peter: *See*—
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Puumalainen, Pertti, to Enso-Gutzeit Oy. Procedure for measuring the quantity of silicon coating on paper or cardboard. 4,639,942, 1-27-87, Cl. 378-045.000.
Puumalainen, Pertti, to Puumalainen Tutkimuslaitos Oy. Method and device for operating and focusing tomographic X-ray equipment. 4,669,102, 5-26-87, Cl. 378-10.000.
Puumalainen, Pertti, to Puumalainen Tutkimuslaitos Oy. Measuring the thickness for a continuous material web. 4,700,486, 10-20-87, Cl. 33-147.00L.
Puumalainen Tutkimuslaitos Oy: *See*—
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Puumalainen, Pertti, 4,700,486, Cl. 33-147.00L.
Puyal, Claude, to Electricite de France (Service National). Process and installation for detecting stray bodies in a nuclear reactor. 4,666,655, 5-19-87, Cl. 376-245.000.
Puydak, Robert C.: *See*—
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Puzig, Edward H., to Great Lakes Chemical Corporation. Process of densification of N-halohydantoin compositions and products thereof. 4,677,130, 6-30-87, Cl. 514-389.000.
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Hurley, John L.; Puzo, Joseph D.; and Tingey, Rosa F., 4,716,074, Cl. 428-220.000.
Pyatt, Lawrence A.; and Thompson, Robert W. Method of distinguishing material characteristics in a well bore for controlling photograph taking in the well bore. 4,704,579, 11-3-87, Cl. 324-226.000.
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Pyka, Hans-Jurgen: *See*—
Forster, Rudolf; Weber, Suso; and Pyka, Hans-Jurgen, 4,713,353, Cl. 437-2.000.
Pyke, Stephen C., to Standard Oil Company, The. Method of forming suspended gate, chemically sensitive field-effect transistor. 4,671,852, 6-9-87, Cl. 156-652.000.
Pyle, Gary L. Hydraulic fifth wheel. 4,653,770, 3-31-87, Cl. 280-432.000.
Pyle, Godfrey J.: *See*—
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Pyles, Robert A.: *See*—
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Pylkki, Russell J.: *See*—
Heikkila, Kurt E.; Williams, Rodney K.; Bohnen, Bruce A.; and Pylkki, Russell J., 4,667,049, Cl. 558-236.000.
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Pylon Company: *See*—
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Pylon Company, Inc.: *See*—
Cooney, James S.; and Sicard, Stephen T., 4,660,922, Cl. 339-278.00T.
Sicard, Stephen T.; Pedro, Brian A.; and Alden, Wayne S., III, 4,705,333, Cl. 439-71.000.
Pynckel, Paul C.: *See*—
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Clark, Erin C.; and Pyne, Graham F., 4,664,562, Cl. 405-273.000.
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Pynsky, Raymond F. Apparatus and method for testing a can seam. 4,703,859, 11-3-87, Cl. 209-597.000.
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Pyramid Industries, Inc.: *See*—
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Pyrene Chemical Services Limited: *See*—
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Pyro-Controle: *See*—
Geoffray, Remy; and Jacobzone, Daniel, 4,670,212, Cl. 376-247.000.
Pyroplasma International N.V.: *See*—
Barton, Thomas G.; and Fox, Edward S., 4,644,877, Cl. 110-250.000.
Pyszel, Ronald J.: *See*—
Horvath, Zoltan L.; Kavanagh, Gary A.; Manning, Steven F.; Pyszel, Ronald J.; Rogers, Lloyd W.; and Schlaps, Edgar H., 4,707,027, Cl. 297-284.000.
Pyzer, Joan B. Toy box with removable covering. 4,683,927, 8-4-87, Cl. 150-52.00R.
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Oxley, Andrew N.; and Oxley, Douglas A. J., 4,634,075, Cl. 242-107.200.
Pzeolla, Hartmut, to Deutsche Forschungs- und Versuchsanstalt fur Luft-und Raumfahrt e.V. Rear support balance for aerodynamic force determination on wind tunnel models. 4,688,421, 8-25-87, Cl. 73-147.000.
Q-COM, Inc.: *See*—
Lapo, Theodore R., 4,654,821, Cl. 364-900.000.
Q-Dot Corporation: *See*—
Grover, George M.; and Chrisman, Robert H., 4,640,347, Cl. 165-104.260.
Kuhns, John P.; and Taylor, James R., 4,706,355, Cl. 29-157.30C.
Q-Med, Inc.: *See*—
Cox, Michael W.; Levin, Richard I.; Cohen, David J.; and Frisbie, William R., 4,679,144, Cl. 364-417.000.
Q.P. Corporation: *See*—
Ueda, Tsunesuke, 4,702,921, Cl. 426-48.000.
QA Technology Company: *See*—
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Qaderi, Satyed B. A.: *See*—
Dickie, Ray A.; and Qaderi, Satyed B. A., 4,639,493, Cl. 525-113.000.
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Qayyum, Asif, to Advanced Micro Devices, Inc. Dual mode increment/decrement N-bit counter register. 4,706,266, 11-10-87, Cl. 377-33.000.
Qi, Cai B.: *See*—
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Qi, Yulu: *See*—
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Qinghua University: *See*—
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QMC Industrial Research Limited: *See*—
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QMI Corporation: *See*—
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QSI Systems, Inc.: *See*—
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Q'SO, Inc.: *See*—
Leicht, Larry F., 4,677,133, Cl. 521-51.000.
Quabaug Corporation: *See*—
Cheskin, Melvyn P., 4,676,010, Cl. 36-32.00R.
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Quadion Corporation: *See*—
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Quadrex HPS, Inc.: *See*—
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Levy, Gilbert M.; Quaglia, Alexander; and Lazure, Robert E., 4,636,074, Cl. 356-328.000.
Quaglia, Andrea: *See*—
Valbusa, Luigi; Coraluppi, Enzo; Quaglia, Andrea; and Tavella, Mario, 4,636,457, Cl. 430-267.000.

Quagliaro, Gilles: *See—*
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Quaker Industries, Inc.: *See—*
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Quaker Oats Company, The: *See—*
Kamman, Gordon W., 4,697,845, Cl. 297-118.000.
Moomaw, David E., 4,701,147, Cl. 446-145.000.
Moomaw, David E., 4,713,036, Cl. 446-145.000.
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Quaker Products Australia Limited: *See—*
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Quali Tech, Inc.: *See—*
Brokken, Kyle A.; and Porubcan, Randolph S., 4,661,358, Cl. 426-72.000.
Qualitrol Corporation: *See—*
Johnson, Wendell D., 4,676,266, Cl. 137-242.000.
Quality Jewelry, Inc.: *See—*
Haley, Richard J., 4,700,552, Cl. 63-12.000.
Qualls, Charles W. Auxiliary power apparatus. 4,653,254, 3-31-87, Cl. 56-16.900.
Qualtronics Corporation: *See—*
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Quam, Dorothy M.: *See—*
Quam, William M.; and Quam, Dorothy M., 4,679,549, Cl. 128-57.000.
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Quan, Nancy N., to Minnesota Mining and Manufacturing Company. Developing powder composition containing a fatty acid amide component. 4,643,960, 2-17-87, Cl. 430-106.600.
Quan, Peter M.; and Nelson, Anthony J., to Imperial Chemical Industries PLC. Triazolopyrimidine extractants. 4,675,172, 6-23-87, Cl. 423-658.500.
Quan, Peter M.: *See—*
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Devonald, David P.; Nelson, Anthony J.; Quan, Peter M.; and Stewart, David, 4,696,801, Cl. 423-24.000.
Quan, Ronald, to Hewlett-Packard Company. Low powered high ambient light bar code reader circuit. 4,682,015, 7-21-87, Cl. 235-472.000.
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Moon, Ronald R.; Machado, Michael G.; Cooper, Thomas G.; Weiher, Patrick M.; Bruner, Curtis H.; Strysko, Mark E.; Uhlendorf, Gregg J.; Campbell, Steven G.; Quan, Tuong T.; and Luong, Hoa V., 4,669,004, Cl. 360-77.000.
Quan, Zoe S.: *See—*
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Grewal, Kalwant S.; Ordun, Michael R.; Quan, Zoe S.; Sawyer, Albert J.; and Sneed, Elbert L., Jr., 4,689,815, Cl. 379-269.000.
Quanex Corporation: *See—*
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Quang, Dang V.; Pradel, Claude; Euzen, Jean P.; and Le Page, Jean-Francois, to Institut Francais du Petrole. Longitudinal reactor for chemical syntheses in gas phase and heterogeneous catalysts. 4,687,656, 8-18-87, Cl. 423-361.000.
Quann, Richard J., to Mobil Oil Corporation. Process for preparing alpha-olefins from light olefins. 4,665,245, 5-12-87, Cl. 585-316.000.
Quann, Richard J.; and Tabak, Samuel A., to Mobil Oil Corporation. Process for removing oxygenated compounds or other impurities from hydrocarbon streams. 4,686,317, 8-11-87, Cl. 585-860.000.
Quante, Heinrich, to ARMO Gesellschaft fur Bauelemente, Bau - und Wohnbedarf GmbH. Barrier post for parking lots and passageways. 4,713,910, 12-22-87, Cl. 49-79.000.
Quante, Jeffrey B., III; Scoggin, Steven C.; Maxwell, Dennis L.; Rosenkoetter, Marvin W.; and Fercacik, James J., to Norment Industries, Inc. Ballistic and forced entry resistant barrier. 4,709,659, 12-1-87, Cl. 109-21.500.
Quantel Limited: *See—*
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Hinson, Neil R.; and Greenhalgh, Stephen P., 4,665,433, Cl. 358-22.000.
Keller, Paul R. N.; Gawley, Robin A.; and Stewart, Ian M., 4,688,106, Cl. 358-342.000.
Rae-Smith, Adam R., 4,652,921, Cl. 358-160.000.
Taylor, Richard J.; Kellar, Paul R. N.; and Hinson, Neil R., 4,709,393, Cl. 382-41.000.
Quantex Corporation: *See—*
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Marshall, William F.; and Mabry, Richard, 4,700,263, Cl. 361-251.000.
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Quantime, Inc.: *See—*
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Quantronix Corporation: *See—*
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Quantum Corporation: *See—*
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Harrison, Joel N.; Condito, Vincent A.; Graham, Randolph Nixon, Brian J.; and Simonsen, Richard C., 4,639,798, Cl. 360-73.000.
Harrison, Joel N.; Daniels, Donald V.; and Brown, David 4,660,106, Cl. 360-77.000.
Machado, Michael G., 4,675,652, Cl. 340-347.0DD.
Moon, Ronald R.; Machado, Michael G.; Cooper, Thomas Weiher, Patrick M.; Bruner, Curtis H.; Strysko, Mark E.; Uhlendorf, Gregg J.; Campbell, Steven G.; Quan, Tuong T.; a Luong, Hoa V., 4,669,004, Cl. 360-77.000.
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Quantum Diagnostics Ltd.: *See—*
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Birnbach, Curtis; and Tanner, Jay, 4,653,855, Cl. 350-163.000.
Birnbach, Curtis; and Tanner, Jay, 4,670,894, Cl. 378-122.000.
Birnbach, Curtis; and Tanner, Jay, 4,710,939, Cl. 372-73.000.
Quantum Laser Corporation: *See—*
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Quantum Logic Corporation: *See—*
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Quantum Materials, Inc.: *See—*
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Quantum Technologies, Inc.: *See—*
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Quantz, Norman G. Electrically actuated lock mechanism. 4,652, 3-24-87, Cl. 292-201.000.
Quantz, Norman G. Electrically actuated lock mechanism. 4,667, 5-26-87, Cl. 292-201.000.
Quanzhong, Sun: *See—*
Yuan, Ren; Xianzhi, Chen; Yuanxi, Feng; Guojiu, Li; Dake, Hu Yongli, Zhang; and Quanzhong, Sun, 4,701,689, Cl. 322-19.
Quarroz, Daniel, to Lonza Ltd. Process for the production of dichloro-2-pyridone. 4,681,942, 7-21-87, Cl. 546-303.000.
Quartano, Anthony G., to Quartano, Billie Waters. Child shopping cushion. 4,669,207, 5-19-87, Cl. 297-229.000.
Quartano, Billie Waters: *See—*
Quartano, Anthony G., 4,666,207, Cl. 297-229.000.
Quartier, Eddy: *See—*
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Quartzcolor Ianiro S.p.A.: *See—*
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Quartztronics, Inc.: *See—*
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Ward, Roger W., 4,644,796, Cl. 73-702.000.
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Quarzcolor Ianiro S.p.A.: *See—*
Bertozzi, Marcello; and Casamento, Roberto, 4,707,766, 362-11.000.
Quast, Armin W.; and Horstmann, Karl H., to Deutsche Forsch und Versuchsanstalt fur Luft- und Raumfahrt e.V. Arrangeme controlling the air flow over aerodynamic profiles. 4,641,759, 2- Cl. 244-207.000.
Quast, Douglas A.: *See—*
Samuelson, John P.; and Quast, Douglas A., 4,700,73 135-67.000.
Quast, Jorn-Rainer, to Boge GmbH. Hydraulic damping rubber mount. 4,645,189, 2-24-87, Cl. 267-140.100.
Quast, Jorn-Rainer: *See—*
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Quate, Calvin F.; and Khuri-Yakub, Butrus T., to Xerox Corpo Nozzleless liquid droplet ejectors. 4,697,195, 9-29-87, Cl 140.00R.
Quatse, Jesse T., to Telemecanique Electrique. Serial infor transfer protocol. 4,683,530, 7-28-87, Cl. 364-200.000.
Quatse, Jesse T. Boolean processor for a progammiable con 4,716,541, 12-29-87, Cl. 364-900.000.
Quay, Steven C., to Salutar, Inc. Ferrioxamine-paramagnetic c agents for MR imaging, composition, apparatus and use. 4,6 1-20-87, Cl. 424-9.000.
Quay, Steven C., to Salutar, Inc. Metal chelates of diethylenetri pentaacetic acid partial esters for NMR imaging. 4,687,658, Cl. 424-9.000.

Quay, Steven C., to Salutar, Inc. Diamide-DTPA-paramagnetic contrast agents for MR imaging. 4,687,659, 8-18-87, Cl. 424-9.000.

Quayle, Bruce R., to Westinghouse Electric Corp. Microprocessor based motor protective relay with maximum number of starts per time interval limiter. 4,713,718, 12-15-87, Cl. 361-29.000.

Quayle, William H.: *See*—
Lindsley, John F.; Goldstein, Marvin S.; and Quayle, William H., 4,652,545, Cl. 502-255.000.

Quazi, Fazle S., to BOE Limited. Method and apparatus for sputtering a dielectric target or for reactive sputtering. 4,693,805, 9-15-87, Cl. 204-192.220.

Quearry, Robert W.: *See*—
Gradinger, J. Gary; Quearry, Robert W.; Chalfant, Robert D.; and Wilson, Charles G., 4,644,741, Cl. 57-256.000.

Queen's University at Kingston: *See*—
De Bold, Adolfo J., 4,647,455, Cl. 424-95.000.
de Bold, Adolfo J., 4,663,437, Cl. 530-324.000.
Vasa, Jiri, 4,666,170, Cl. 280-47.190.
Wolfe, Saul; Westlake, Donald; and Jensen, Susan, 4,693,977, Cl. 435-180.000.

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Queiser, Horst; and Eckardt, Bernd, to Kraftwerk Union Aktiengesellschaft. Method for operating a nuclear reactor. 4,671,925, 6-9-87, Cl. 376-310.000.

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Carlson, Lee G.; Terrien, Conrad; and Queisser, Roger, 4,670,154, Cl. 210-675.000.

Quek, Swee-meng: *See*—
Thompson, Z.; and F., Disney, Daniel J.; Quek, Swee-meng; and Westerfeld, Eric C., 4,701,844, Cl. 364-200.000.

Quella, Ferdinand; and Leute, Ulrich, to Siemens Aktiengesellschaft. Cross-linked polymer coated metal particle filler compositions. 4,689,250, 8-25-87, Cl. 427-216.000.

Quellais, Jacques: *See*—
Salomon, Georges P. J.; and Quellais, Jacques, 4,647,064, Cl. 280-615.000.

Quenin, Jean-Louis. Automatic safety device for fluid duct. 4,665,932, 5-19-87, Cl. 137-486.000.

Quenisset, Jean-Michel: *See*—
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Quenneville, Raymond N.: *See*—
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Quenzi, Philip J., to Niemela, W. Wally. Snowplow and implement attachment means for a vehicle. 4,658,519, 4-21-87, Cl. 37-23.000.

Quenzi, Philip J.: *See*—
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Quercetti, Alessandro. Process for the manufacture of boxes, the boxes which result therefrom and the elements for their composition. 4,637,544, 1-20-87, Cl. 229-44.00R.

Quercetti, Alessandro. Apparatus for mechanically composing a mosaic pattern of balls. 4,662,846, 5-5-87, Cl. 434-96.000.

Queromes, Armel: *See*—
Kerherve, Jean-Pierre; and Queromes, Armel, 4,694,091, Cl. 556-104.000.

Quest Medical, Inc.: *See*—
Abbott, Martyn S., 4,657,490, Cl. 417-478.000.
Robinson, Thomas P., 4,648,873, Cl. 604-411.000.
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Questek Corp.: *See*—
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Questron, Inc.: *See*—
Popowski, James J.; and Goldstein, Richard, 4,709,230, Cl. 340-703.000.

Quet, Hector P.; and Selame, Rowland A. Portable barbecue. 4,658,710, 4-21-87, Cl. 99-445.000.

Queudray, Pierre, to Vibrachoc. Electroluminescent panel and method for manufacturing same. 4,667,273, 5-19-87, Cl. 362-34.000.

Queval, Bruno: *See*—
Billarant, Patrick J.; and Queval, Bruno, 4,693,921, Cl. 428-100.000.

Queveau, Gerard. Hatchback door with optionally stationary window. 4,664,437, 5-12-87, Cl. 296-146.000.

Queyrat, Jacques: *See*—
Languillat, Jean-Paul; Morel, Jean-Michel; and Queyrat, Jacques, 4,693,919, Cl. 428-36.000.

Quibel, Jacques: *See*—
Schurmans, Jacques; Neukermans, Herman; Quibel, Jacques; and Dupont, Rene, 4,670,187, Cl. 252-373.000.

Quick, David C.; McCormick, Stephen J.; and Ballendux, Gerardus M., to Deutz-Allis Corporation. Multi-speed planetary transmission. 4,640,152, 2-3-87, Cl. 74-767.000.

Quick, David C., to Sundstrand Corporation. Centrifugal ball switch. 4,689,452, 8-25-87, Cl. 200-80.00R.

Quick, James R.; Mitchell, James W.; and Cooley, Dennis A., to International Paper Co. Package for microwave cooking with controlled thermal effects. 4,713,510, 12-15-87, Cl. 219-10.55E.

Quick, Nathaniel R.: *See*—
Lyons, Alan M.; Mendenhall, Frederick T., Jr.; Robbins, Murray; Quick, Nathaniel R.; and Wilkins, Cletus W., Jr., 4,691,091, Cl. 219-121.0LM.

Quick, Richard L., to Gish Biomedical, Inc. Needle device for use with subcutaneous catheter assemblies. 4,710,176, 12-1-87, Cl. 604-177.000.

Quick, Robert G., Jr.: *See*—
Lau, Robert S.; Murphy, Roy E.; and Quick, Robert G., Jr., 4,695,772, Cl. 315-370.000.

Quick-Rotan Elektromotoren GmbH: *See*—
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Quick-Set, Incorporated: *See*—
Mooney, Paul C., 4,709,897, Cl. 248-551.000.

Quick, Terrence R.; Miranti, Joseph P., Jr.; and Foster, Randy C., to Dayco Corporation. Pulley construction and method of making the same. 4,634,405, 1-6-87, Cl. 474-13.000.

Quick, Timothy W.: *See*—
Sakai, Kirk; and Quick, Timothy W., 4,672,078, Cl. 514-588.000.

Quick, Wilson M.; and Hallmark, Richard G., to United States of America, Navy. Explosive separation system for composite materials. 4,649,825, 3-17-87, Cl. 102-307.000.

Quigley, Vincent P.: *See*—
Shyu, Wen B.; Woodhead, David A.; and Quigley, Vincent P., 4,698,389, Cl. 525-96.000.

Quignard, Francoise: *See*—
Basset, Jean M.; Leconte, Michel; Ollivier, Jean; and Quignard, Francoise, 4,654,462, Cl. 585-646.000.
Basset, Jean M. M.; Leconte, Michel; Ollivier, Jean; and Quignard, Francoise, 4,639,429, Cl. 502-117.000.

Quillen, Jeffrey B.; and Spahn, James G. Recliner for medical convalescence. 4,639,960, 2-3-87, Cl. 5-455.000.

Quillen, Jeffrey B.; and Spahn, James G. Recliner for medical convalescence. 4,685,163, 8-11-87, Cl. 5-455.000.

Quillfeldt, Winfried; Naumann, Bernd; and Becker-Ross, Helmut, to Jenoptik Jena GmbH. Method and arrangement for multielement analyse. 4,711,572, 12-8-87, Cl. 356-311.000.

Quilling, Marlys M.; Edwards, Sherrie M.; and Mathews, Jeanette M., to Quilling, Marlys M.; and Mathews, Jeanette M. Bib. 4,660,226, 4-28-87, Cl. 2-49.00R.

Quimby, Bruce D.: *See*—
Sullivan, James J.; and Quimby, Bruce D., 4,654,504, Cl. 219-121.0PM.

Quinart, Pierre; Schoellhammer, Georges; Tableau, Pierre; and Vivien, Francois, to Machines Outils Wirth et Gruffat. Machine tool structure. 4,704,773, 11-10-87, Cl. 29-27.00C.

Quine, John P.: *See*—
Jespersen, Nils V.; and Quine, John P., 4,673,899, Cl. 333-137.000.

Quiney, Kenneth M.; and Hinsley, Stephen J., to Lucas Industries Public Limited Company. Master cylinder reservoir. 4,674,282, 6-23-87, Cl. 60-581.000.

Quinlan, Charles W.: *See*—
Zarrineghbal, Hossein; and Quinlan, Charles W., 4,711,713, Cl. 208-222.000.

Quinlan, Leland F. Variable buoyancy fishing lure. 4,689,914, 9-1-87, Cl. 43-42.220.

Quinlan, Patrick M., to Petrolite Corporation. Acid inhibitor composition. 4,670,186, 6-2-87, Cl. 252-392.000.

Quinlan, Robert L., Jr.: *See*—
Wise, Robert D.; Quinlan, Robert L., Jr.; Lauro, Charles W.; and Bradd, Sidney H., Jr., 4,655,506, Cl. 297-467.000.

Quinlan, Thomas J., III: *See*—
Young, Gladstone F.; Green, Richard F.; Miller, S. David; and Quinlan, Thomas J., III, 4,683,564, Cl. 370-63.000.

Quinlisk, Warren W.; and Fernholz, James A., to L. B. White Company, Inc. Air to air heat exchanger. 4,653,574, 3-31-87, Cl. 165-54.000.

Quinn, Antony W., to Scott & Fetzer Company, The. Lock mechanism for retractable awning. 4,658,877, 4-21-87, Cl. 160-46.000.

Quinn, Bevan P. Disc pulverizer. 4,640,468, 2-3-87, Cl. 241-199.100.

Quinn, Bruce A.; and Barton, Scott N., to NCR Corporation. Order entry system including an interactive menu display. 4,638,312, 1-20-87, Cl. 340-825.350.

Quinn, Bryan J., to Aro Corporation, The. Fluid assisted spring return for pilot operated, spool valve. 4,649,957, 3-17-87, Cl. 137-625.640.

Quinn, Clayton B.; and Holub, Fred F., to General Electric Company. Polyterephthalatecarbonate-polyether:mide-polyester blends. 4,687,819, 8-18-87, Cl. 525-425.000.

Quinn, Clayton B.; McClish, Richard R.; and Moore, James E., to General Electric Company. Melamine based protective coatings for thermoplastic substrates. 4,714,657, 12-22-87, Cl. 428-412.000.

Quinn, Daniel J.; Mulholland, Wayne A.; Bond, Robert H.; Olla, Michael A.; Cupples, Jerry S.; Tsitovsky, Ilya L.; Mozdzen, Barbara R.; Held, Charles F.; Wilson, Linda S.; and Nguyen, Yen T., to Thomson Components - Mostek Corp. Process of forming integrated circuits with contact pads in a standard array. 4,685,998, 8-11-87, Cl. 156-633.000.

Quinn, Gregory F.; Wulff, Virgil W.; and Schroeder, Robert F., to Mattel, Inc. Articulated soft doll construction assembly. 4,662,857, 5-5-87, Cl. 446-371.000.

Quinn, James R.: *See*—
Andersen, Garry E.; Quinn, James R.; and Linnert, Peter J., 4,701,114, Cl. 417-564.000.

Quinn, Kenneth P., to Westinghouse Electric Corp. Film-riding shaft seal formed from high-purity silicon nitride. 4,693,481, 9-15-87, Cl. 277-96.200.

Quinn, Mike: *See*—
Persem, Jake; Quinn, Mike; Emery, Walter C.; and Bracht, Philip E., 4,633,672, Cl. 62-126.000.

Quinn, Patrick A., to Tektronix, Inc. Differential impedance neutralization circuit. 4,692,712, 9-8-87, Cl. 330-261.000.

Quinn, Peter J., to Acacia Chemicals Ltd. Spray method and formulation for use therein. 4,666,747, 5-19-87, Cl. 427-421.000.

Quinn, Robert E., to Lubrizol Corporation, The. Dispersant salts. 4,642,330, 2-10-87, Cl. 528-335.000.

Quinn, Robert E., to Lubrizol Corporation, The. Homogeneous stabilizer compositions for vinyl halide polymers. 4,661,544, 4-28-87, Cl. 524-109.000.

Quinn, Robert E., to Lubrizol Corporation, The. Basic metal salts having improved color and stability and vinyl halide polymers containing same. 4,665,117, 5-12-87, Cl. 524-327.000.

Quinn, Robert F.: *See*—
Lee, James C. K.; Amdahl, Gene M.; Beck, Richard L.; Quinn, Robert F.; and Sochor, Jerzy R., 4,667,219, Cl. 357-68.000.

Quinn, Robert L.; Heyman, Philip M.; and Goldman, Abraham, to RCA Corporation. Method for making a protective coating on a machine-readable marking. 4,670,295, 6-2-87, Cl. 427-54.100.

Quinn, Sharon A.: *See*—
Pennace, John R.; and Quinn, Sharon A., 4,684,557, Cl. 428-40.000.

Quinn, Stephen R.: *See*—
Moore, Wayne E.; Quinn, Stephen R.; Tufts, Wesley M.; and Gasko, William F., 4,714,316, Cl. 350-96.200.

Quinn, Susanne M. Honey-moon. 4,642,251, 2-10-87, Cl. 428-7.000.

Quinque, Claude; and Merard, Rene, to Commissariat a l'Energie Atomique. Process and apparatus for the alignment of a laser beam by using optical sighting means and process for using the apparatus for checking the alignment. 4,668,088, 5-26-87, Cl. 356-138.000.

Quint, David W.: *See*—
Monnig, Kenneth A.; and Quint, David W., 4,696,833, Cl. 437-225.000.

Quint, Robert A. W., to Heerema Engineering Service B.V. Gangway assembly. 4,675,931, 6-30-87, Cl. 14-71.100.

Quintana, Carlos A.: *See*—
Aubert, James H.; Clough, Roger L.; Curro, John G.; Quintana, Carlos A.; Russick, Edward M.; and Shaw, Montgomery T., 4,673,695, Cl. 521-64.000.

Quintana, Manuel E., to Texaco Development Corp. Quench chamber structure for a down flow high pressure gasifier. 4,650,497, 3-17-87, Cl. 48-69.000.

Quintana, Max A., to Quintana, Max A.; King, Robert E.; Morgan, Bernard L.; and Lennon, Alton Y. Secure credit card. 4,667,087, 5-19-87, Cl. 235-380.000.

Quintana, Ronald P.: *See*—
Lasslo, Andrew; Quintana, Ronald P.; Dugdale, Marion; and Johnson, Randy W., 4,634,709, Cl. 514-316.000.
Lasslo, Andrew; Quintana, Ronald P.; and Dugdale, Marion, 4,657,917, Cl. 514-315.000.

Quintech Corporation: *See*—
Kasboske, George C., 4,713,736, Cl. 362-214.000.

Quintel, Francis W., to Sheehan, Robert Douglas. Lawn edger. 4,679,383, 7-14-87, Cl. 56-13.400.

Quinti, Roland P. O.: *See*—
Poldervaart, Leendert; Personnat, Jean C. M.; and Quinti, Roland P. O., 4,686,924, Cl. 114-219.000.

Quinton Hazell plc: *See*—
Persicke, Gunter; Child, James R.; and Baker, Peter F., 4,700,815, Cl. 188-286.000.

Quinton Instrument Company: *See*—
Hadford, Raymond L.; and Quinton, Wayne E., 4,675,004, Cl. 604-44.000.
Peterman, Stanley; Orrestad, Charles W.; and Iwanczuk, Paul, 4,637,672, Cl. 339-61.00R.

Quinton, Wayne E.: *See*—
Hadford, Raymond L.; and Quinton, Wayne E., 4,675,004, Cl. 604-44.000.

Quiogue, Honesto D., to Hubbell Incorporated. Capacitor hold-down strap. 4,712,162, 12-8-87, Cl. 361-417.000.

Quipp, Incorporated: *See*—
Sjogren, Christer A., 4,645,069, Cl. 198-689.100.
Sjogren, Christer A.; and D'Amico, Carl, 4,678,387, Cl. 414-47.000.

Quirante, Carmelo G.: *See*—
Wells, John R.; and Quirante, Carmelo G., 4,673,501, Cl. 210-406.000.

Quiring, Bernd: *See*—
Niederdellmann, Georg; Goyert, Wilhelm; Quiring, Bernd; and Wagner, Hans, 4,656,199, Cl. 521-79.000.

Quirk, Jennifer M.; and Kanner, Bernard, to Union Carbide Corporation. Novel process for the preparation of halopropyltrialkoxysilanes and halopropylalkylalkoxysilanes. 4,658,050, 4-14-87, Cl. 556-479.000.

Quirk, Jennifer M.; and Kanner, Bernard, to Union Carbide Corporation. Process for the preparation of olefinic silanes and siloxanes. 4,668,814, 5-26-87, Cl. 556-466.000.

Quiros, Jaime J.; and Pennett, John G., to United States of America, Air Force. Power sensing device. 4,659,941, 4-21-87, Cl. 307-11.000.

Quis, Peter: *See*—
Liebler, Ralf; Munzer, Manfred; Quis, Peter; and Legierse, Petrus E. J., 4,663,199, Cl. 427-304.000.

Quist, Gregory M.: *See*—
Wyatt, Philip J.; and Quist, Gregory M., 4,710,025, Cl. 356-343.000.

Quist, Per I.: *See*—
Marks, Gerald C.; and Quist, Per I., 4,648,922, Cl. 156-79.000.

Quitevis, Edward L.: *See*—
Kenney-Wallace, Geraldine A.; and Quitevis, Edward L., 4,658,218, Cl. 330-4.300.

Quixote Corporation: *See*—
Rollhaus, Philip; and Endo, Yukio, 4,638,306, Cl. 340-365.00R.
Rollhaus, Philip E.; and Endo, Yukio, 4,694,280, Cl. 340-365.00R.

Quixotic, Inc.: *See*—
Tunstall, John R., 4,697,378, Cl. 43-42.090.

Qume Corporation: *See*—
Thanos, William N., 4,653,946, Cl. 400-144.200.

Quock, Deborah E. R.; Triplett, Timothy L.; and Childress, Don E., to Texaco Inc. Filter press flow control system for dewatering sludge. 4,639,312, 1-27-87, Cl. 210-101.000.

Quodala, Genaro M.: *See*—
Walters, Paul W.; Raiche, H. Anthony; Harness, Ronald L.; and Quodala, Genaro M., 4,698,212, Cl. 422-144.000.

Quoiffy, Harald: *See*—
Lenski, Ralph; and Quoiffy, Harald, 4,663,978, Cl. 73-863.520.

Quoin Enterprises: *See*—
Lane, Michael L.; and Whitney, Lowell, 4,655,343, Cl. 206-287.00.

Qureshi, Shahid P., to Amoco Corporation. Moisture resistant wet winding epoxy resin system containing aromatic diamines. 4,686,251, 8-11-87, Cl. 523-440.000.

Quy, Dennis A.: *See*—
Olson, Gene H.; and Quy, Dennis A., 4,677,612, Cl. 370-85.00.

R. A. Jones & Co. Inc.: *See*—
Benner, Harold T., Jr.; Leonhardt, Mark A.; and Zdinak, Mette J., 4,702,289, Cl. 141-125.000.
Greenwell, Joseph D., 4,660,353, Cl. 53-449.000.

R. A. McDonald: *See*—
Schlichtig, Roger J., 4,644,410, Cl. 358-282.000.

R.A.T.P. Regie Autonome des Transports Parisiens: *See*—
Delfourne, Paul, 4,690,068, Cl. 105-8.100.

R. Alkan & Cie: *See*—
Coutin, Pierre F., 4,706,541, Cl. 89-1.550.
Duclos, Didier A.; and Coutin, Pierre F., 4,682,529, Cl. 89-1.550.

R. B. Industries, Inc.: *See*—
Rice, Verle L.; Rafferty, Robert P.; and Keener, Richard A., 4,646,605, Cl. 83-782.000.

R. Broermann, Firma: *See*—
Broermann, Theodor, 4,666,752, Cl. 428-43.000.

R. C. Ltd.: *See*—
Ford, George A., 4,694,916, Cl. 175-249.000.

R-Con International, Inc.: *See*—
Edwards, William D., 4,687,233, Cl. 285-55.000.

R. D. Percy & Company: *See*—
Percy, Penelope C.; and Percy, Roger D., 4,646,145, Cl. 358-84.000.

R. D. Werner Co., Inc.: *See*—
Werner, Richard L., 4,656,721, Cl. 29-523.000.

R. E. Baker Company, Inc.: *See*—
Center, Gene R., 4,709,441, Cl. 15-301.000.

R. E. Dietz Co.: *See*—
Vescio, Donald W.; and Latham, Daniel S., 4,703,400, Cl. 362-80.000.

R. E. P. Industries Inc.: *See*—
Penniman, Richard E., 4,687,229, Cl. 282-29.00B.

R. E. Phelon Company, Inc.: *See*—
Gwozdz, Adam A., 4,683,518, Cl. 361-263.000.

R. E. Stiftung: *See*—
Graetzel, Michael; Serpone, Nick; and Duonghong, Dung, 4,684,537, Cl. 427-53.100.

R.F.D. Consultants Pty. Ltd.: *See*—
Knight, John K., 4,697,396, Cl. 52-170.000.
Knight, John K., 4,715,598, Cl. 272-3.000.

R.F.D. Limited: *See*—
Edwards, David V., 4,685,890, Cl. 441-94.000.

R.F.J. Associates Limited: *See*—
Deczky, Andrew E., 4,638,441, Cl. 364-483.000.

R. F. Monolithics, Inc.: *See*—
Audle, Jeffrey C., 4,670,680, Cl. 310-313.00A.
Ragan, Lawrence H.; Hartmann, Clinton S.; and Ash, Darrell L., 4,663,664, Cl. 380-16.000.
Ragan, Lawrence H.; Hartmann, Clinton S.; and Ash, Darrell L., 4,682,223, Cl. 380-16.000.
Ragan, Lawrence H.; Hatmann, Clinton S.; and Ash, Darrell L., 4,682,224, Cl. 380-16.000.
Wright, Peter V., 4,670,681, Cl. 310-313.00A.
Wright, Peter V., 4,694,266, Cl. 333-196.000.

R. F. Shoup Corporation: *See*—
Boram, Robert J., 4,641,240, Cl. 364-409.000.
Boram, Robert J., 4,641,241, Cl. 364-409.000.

R. Funk & Co., Inc.: *See*—
Ott, Robert S., 4,701,155, Cl. 493-14.000.

R. & G. Schmoele Metallwerke GmbH & Co. KG: *See*—
Dirksmeier, Ulrich; Kamp, Franz; and Fringes, Wilhelm, 4,660,8[illegible], Cl. 137-613.000.

R. Goodwin International Ltd.: *See*—
Goodwin, John, 4,650,342, Cl. 366-264.000.
Goodwin, Richard S., 4,694,853, Cl. 137-512.100.
Reeve, Thomas S.; and Brookes, John W., 4,666,476, Cl. 55-203.000.

R. Graftiaux: *See*—
Nithart, Henri; and Graftiaux, Robert, 4,707,214, Cl. 156-392.00

R. H. Burton Company: *See*—
Thurston, Marlin O., 4,687,928, Cl. 250-231.0SE.
R. H. Richards Mfg., Inc.: *See*—
Richards, Roger H., 4,652,039, Cl. 296-97.00R.
R&H Technology, Inc.: *See*—
Heine, Otto R.; and Riede, Peter M., 4,641,864, Cl. 285-179.000.
Heine, Otto R., 4,660,431, Cl. 74-424.80R.
Heine, Otto R., 4,661,031, Cl. 411-263.000.
R. Hartnett Company: *See*—
Ackley, Charles E., Jr.; and Ross, Robert L., 4,657,130, Cl. 198-397.000.
R. J. Fullwood & Bland Ltd.: *See*—
Tisserand, Philippe; and Daffini, Jean-Pierre, 4,633,813, Cl. 119-14.040.
R. J. Harvey Instrument Corporation: *See*—
Maines, Robert, 4,710,458, Cl. 435-12.000.
R. J. Pond Limited: *See*—
Pond, Richard J., 4,697,829, Cl. 285-18.000.
R. J. Reynolds Tobacco Company: *See*—
Banerjee, Chandra K.; Farrier, Ernest G.; Reynolds, John H., IV; Ridings, Henry T.; Sensabaugh, Andrew J., Jr.; Shannon, Michael D.; and Shelar, Gary R., 4,714,082, Cl. 131-359.000.
Graves, William H., Jr., 4,702,264, Cl. 131-370.000.
Leonard, Gerard E., 4,658,838, Cl. 131-336.000.
Lynn, Dwo; Morrison, Carl C.; and Hutcherson, Ronald W., Sr., 4,715,389, Cl. 131-335.000.
Norman, Alan B.; and Creamer, Glenn E., 4,649,941, Cl. 131-336.000.
Norman, Alan B.; and Creamer, Glenn E., 4,649,945, Cl. 131-336.000.
Norman, Alan B., 4,693,265, Cl. 131-340.000.
Redding, Jerry W.; Roberts, Donald L.; and Woods, Donna K., 4,643,205, Cl. 131-275.000.
Roberts, Donald L.; Angel, Anthony L.; Clark, Douglas C.; Clearman, Jack F.; and Sink, T. Stephen, 4,638,820, Cl. 131-336.000.
Sensabaugh, Andrew J., Jr.; and Ridings, Henry T., 4,655,229, Cl. 131-273.000.
Shelar, Gary R., 4,708,151, Cl. 131-359.000.
Syvarth, Anne S.; Gordin, Harvey H.; Early, Paul D., Jr.; Needs, Kathy A.; and Perfetti, Thomas A., 4,711,255, Cl. 131-330.000.
Townsend, David E.; Frye, Diane R.; Greene, Tammie B.; and Perfetti, Thomas A., 4,700,726, Cl. 131-364.000.
Wilkinson, Donald R., 4,664,740, Cl. 156-540.000.
Young, Harvey J.; and Leonard, Gerard E., 4,646,764, Cl. 131-370.000.
R.J. Tool Design, Inc.: *See*—
Rokita, Stephen, 4,658,457, Cl. 7-170.000.
R.K.W. Industries, Inc.: *See*—
Kesteloot, Raymond P., 4,714,060, Cl. 123-195.00R.
R.L. Associates: *See*—
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R. Neumann & Co.: *See*—
Mulvaney, Lewis W., 4,689,832, Cl. 2-161.00A.
R.O.M. S.r.l.: *See*—
Rosati, Domenico, 4,655,663, Cl. 414-31.000.
Rosati, Domenico, 4,669,720, Cl. 271-256.000.
R. P. Scherer Corporation: *See*—
Davies, J. Desmond, 4,642,903, Cl. 34-5.000.
Haman, Frederic E.; and Schmoke, Keith E., 4,656,092, Cl. 428-402.200.
Nishihata, Toshiaki; Kamada, Akira; and Wada, Hisayo, 4,699,776, Cl. 424-16.000.
R. R. Brink Locking Systems, Inc.: *See*—
Kambic, Raymond V., 4,640,112, Cl. 70-452.000.
Kambic, Raymond V., 4,679,416, Cl. 70-143.000.
Kambic, Raymond V., 4,685,709, Cl. 292-201.000.
R. R. Donnelley & Sons Company: *See*—
Bernstein, Irwin B., 4,641,579, Cl. 101-451.000.
Perkna, Andres, 4,676,161, Cl. 101-378.000.
Robinson, John S.; Ahlswede, Thomas E.; and Cornelius, Charles A., 4,679,153, Cl. 364-523.000.
Schimpf, Daniel B., 4,672,466, Cl. 358-299.000.
Wong, Did-Bun; and Lubenow, Josef K., 4,674,052, Cl. 364-466.000.
R. T. M. Istituto per le Ricerche di Tecnologia Meccanica e per l'Automazione: *See*—
Cantello, Maichi; and Manino, Pier Giuseppe, 4,684,780, Cl. 219-121.0LQ.
R. T. Vanderbilt Company, Inc.: *See*—
Doe, Lester A., Jr., 4,677,149, Cl. 524-324.000.
Doe, Lester A., Jr., 4,704,426, Cl. 524-83.000.
Doe, Lester A., Jr., 4,711,915, Cl. 523-122.000.
R. W. Hartnett Company: *See*—
Ackley, Charles E., Sr.; and Ackley, Charles E., Jr., 4,682,683, Cl. 198-380.000.
R. W. Lyall & Company, Inc.: *See*—
Lyall, Lucian H., 4,695,335, Cl. 156-64.000.
Lyall, Robert W., 4,635,972, Cl. 285-242.000.
R. W. Simon Limited: *See*—
Dudzik, Henryk, 4,700,614, Cl. 98-98.000.
South, Alan C., 4,709,809, Cl. 206-162.000.
Raab, Andrew F.; and Cobb, Albert R., III, to Indak Manufacturing Corp. Combination rotary electrical switch and vacuum selector valve. 4,679,588, 7-14-87, Cl. 137-560.000.
Raab, Andrew F.; and Habecker, John W., to Indak Manufacturing Corp. Sealed toggle action electrical switches. 4,710,601, 12-1-87, Cl. 200-302.300.
Raab, Anthony R., to Com Dev Ltd. Electrical power dividers. 4,668,953, 5-26-87, Cl. 342-373.000.
Raab, Dieter: *See*—
Millauer, Wolfgang; and Raab, Dieter, 4,681,489, Cl. 408-1.00R.
Raab, Harald. Torsional vibration damper with smooth transition between two spring systems. 4,645,054, 2-24-87, Cl. 192-106.200.
Raab, Harald; and Gobel, Hilmar, to Fichtel & Sachs AG. Clutch disc for a motor vehicle friction clutch. 4,669,593, 6-7-87, Cl. 192-106.200.
Raab, Harald: *See*—
Gobel, Hilmar; and Raab, Harald, 4,637,500, Cl. 192-3.280.
Raab, Simon, to Sirdan Research Limited. Desalinating drip-irrigation system. 4,698,135, 10-6-87, Cl. 202-234.000.
Raab, Simon: *See*—
Fraser, Gregory A.; and Raab, Simon, 4,649,934, Cl. 128-782.000.
Fraser, Gregory A.; and Raab, Simon, 4,667,520, Cl. 73-862.040.
Raabe, Austin B., to Applied Biology, Inc. Leak detection method and apparatus. 4,709,576, 12-1-87, Cl. 73-40.50R.
Raabe, Rodney D.; Mrowka, Joseph J.; McCuin, Jon P.; and Noonan, Joseph F., to General Electric Company. Lighting circuit breaker panelboard modular assembly including circuit breaker indicating clips. 4,679,120, 7-7-87, Cl. 361-358.000.
Raabe, Rodney D.; Mrowka, Joseph J.; McCuin, Jon P.; and Noonan, Joseph F., to General Electric Company. Lighting circuit breaker panelboard modular assembly. 4,713,728, 12-15-87, Cl. 361-363.000.
Raamot, Jaan: *See*—
Hasley, Lloyd A.; and Raamot, Jaan, 4,656,627, Cl. 370-85.000.
Hasley, Lloyd A.; and Raamot, Jaan, 4,694,196, Cl. 307-269.000.
Raap, Gerald G., to Kutz, Donald F. Picture hanger. 4,645,165, 2-24-87, Cl. 248-476.000.
Raasch, Hans; and Wassenhoven, Heinz-Georg, to W. Schlafhorst & Co. Device for feeding-in a thread end into a spinning nip of a friction spinning machine. 4,641,494, 2-10-87, Cl. 57-401.000.
Raasch, Hans, to W. Schlafhorst & Co. Method and apparatus for determining yarn number or thickness deviations. 4,660,365, 4-28-87, Cl. 57-263.000.
Raasch, Hans, to W. Schlafhorst & Co. Spinning rotor with a coating for improving the spinning result. 4,662,170, 5-5-87, Cl. 57-416.000.
Raasch, Hans; and Wassenhoven, Heinz-Georg, to W. Schlafhorst & Co. Spinning rotor for an OE-spinning machine and method for producing the spinning rotor. 4,663,929, 5-12-87, Cl. 57-416.000.
Raasch, Hans, to W. Schlafhorst & Co. Method and device for starting the spinning of a thread in an OE-spinning device. 4,672,802, 6-16-87, Cl. 57-263.000.
Raasch, Hans, to W. Schlafhorst & Co. Thread joining apparatus for an open end spinning machine. 4,693,070, 9-15-87, Cl. 57-263.000.
Raasch, Hans, to W. Schlafhorst & Co. Driven thread storage device. 4,695,002, 9-22-87, Cl. 242-47.010.
Raasch, Hans, to W. Schlafhorst & Co. Device for exchanging empty cans with cans filled with sliver. 4,697,310, 10-6-87, Cl. 19-159.00A.
Raasch, Hans, to W. Schlafhorst & Co. Coil producing machine. 4,702,427, 10-27-87, Cl. 242-35.50A.
Raasch, Hans, to W. Schlafhorst & Co. Method and apparatus for starting up a friction spinning assembly. 4,711,082, 12-8-87, Cl. 57-263.000.
Raasch, Hans. *See*—
Stahlecker, Fritz; and Raasch, Hans, 4,653,265, Cl. 57-406.000.
Rabajoie, Louck P.: *See*—
Guioth, Chantal H.; Maze, Etienne G.; and Rabajoie, Louck P., 4,710,281, Cl. 204-181.700.
Rabassa, Alberto: *See*—
Fortsch, Bruno; Rabassa, Alberto; and Bruttel, Beat, 4,689,048, Cl. 8-524.000.
Rabbit, Charles F.: *See*—
LeBlanc, Michelle M.; Parker, James F.; Rabbit, Charles F.; and Wallace, Donald J., 4,688,426, Cl. 73-450.000.
Rabe, Bernd, to Deere & Company. Single lever control arrangement. 4,641,545, 2-10-87, Cl. 74-476.000.
Rabe, George B., to Foster Wheeler Energy Corporation. Tube positioning tool and method for use. 4,654,943, 4-7-87, Cl. 29-157.400.
Rabe, George B., to Foster Wheeler Energy Corporation. Method for remotely replacing tube ends in a heat exchanger. 4,694,549, 9-22-87, Cl. 29-157.30C.
Rabe, George B., to Foster Wheeler Energy Corporation. Elongated tube expander tool. 4,694,677, 9-22-87, Cl. 72-393.000.
Rabe, Jerry R., to General Electric Company. Method of making single phase multi-speed motor. 4,635,349, 1-13-87, Cl. 29-596.000.
Rabe, Karl L. G. Nail-type fastener, and process for manufacturing such fasteners. 4,637,768, 1-20-87, Cl. 411-452.000.
Rabe, William T., to TRW Inc. Unloading valve for power steering piston with integral gear. 4,648,307, 3-10-87, Cl. 91-375.00A.
Rabemanantsoa, Amelie: *See*—
Perichon, Jacques; Rabemanantsoa, Amelie; Sibille, Soline; and D'Incan, Esther, 4,637,863, Cl. 204-59.00R.
Rabenau, Albrecht: *See*—
Weppner, Werner; Hartmann, Ervin; and Rabenau, Albrecht, 4,704,341, Cl. 429-192.000.
Rabenau, Richard: *See*—
Ryder, Francis E.; and Rabenau, Richard, 4,637,919, Cl. 422-300.000.
Rabener, Claus W.; Horner, Hans-Peter; and Baumann, Dieter, to Ciba-Geigy Corporation. Curable mixtures based on diglycidyl compounds and metal complex compounds. 4,716,185, 12-29-87, Cl. 523-456.000.

Rabenstein, Heinrich: *See*—
Gummelt, Klaus; Schulz, Jurgen; Salamon, Klaus; and Rabenstein, Heinrich, 4,642,600, Cl. 338-34.000.

Rabey, Alexander; and Hampel, Herbert J., to VIR, Inc. Patch module. 4,705,921, 11-10-87, Cl. 200-50.00B.

Rabeyrolles, Serge, to Commissariat a l'Energie Atomique. Apparatus for measuring low currents with high dynamics. 4,692,693, 9-8-87, Cl. 324-123.00R.

Rabideau, Sherman W.; and Campbell, George M., to United States of America, Energy. Photochemical preparation of plutonium pentafluoride. 4,670,239, 6-2-87, Cl. 423-251.000.

Rabii, Khosro M.; and Fling, Russell T., to RCA Corporation. Brightness clamping apparatus for TV receiver with multiple inputs. 4,663,668, 5-5-87, Cl. 358-171.000.

Rabilloud, Guy: *See*—
Malinge, Jean; Rabilloud, Guy; and Sillion, Bernard, 4,645,821, Cl. 528-331.000.

Rabindran, K. George: *See*—
Svyatsky, Eduard; and Rabindran, K. George, 4,693,465, Cl. 271-274.000.
Vandersyde, Gary L.; and Rabindran, K. George, 4,634,107, Cl. 270-56.000.
Zemke, Edward H., deceased; Vandersyde, Gary L.; Rabindran, K. George; and Guenther, Kenneth L., 4,697,246, Cl. 364-563.000.

Rabinovich, Eliezer M.: *See*—
Johnson, David W., Jr.; MacChesney, John B.; Rabinovich, Eliezer M.; and Vogel, Eva M., 4,707,174, Cl. 65-18.100.

Rabinowitz, Dan, to Medi-Tech, Inc. Finger actuated surgical electrode holder. 4,688,569, 8-25-87, Cl. 128-303.140.

Rabinowitz, Lewis, to Arnell Inc. Gum massager. 4,653,480, 3-31-87, Cl. 128-62.00A.

Rabinowitz, Lewis. Gum massager. 4,683,875, 8-4-87, Cl. 128-62.00A.

Rabito, Thomas G.: *See*—
Streets, Roger L.; Rabito, Thomas G.; and Peresie, David N., 4,640,730, Cl. 156-334.000.

Rabitsch, Benjamin F. Sprinkler assembly. 4,648,558, 3-10-87, Cl. 239-228.000.

Rabo, Jule A.; and Coughlin, Peter K., to Union Carbide Corporation. Catalysts for conversion of syngas to liquid motor fuels. 4,652,538, 3-24-87, Cl. 502-66.000.

Rabo, Jule A.: *See*—
Pellet, Regis J.; Coughlin, Peter K.; Staniulis, Mark T.; Long, Gary N.; and Rabo, Jule A., 4,666,875, Cl. 502-65.000.
Pellet, Regis J.; Gortsema, Frank P.; Long, Gary N.; and Rabo, Jule A., 4,686,029, Cl. 208-111.000.
Pellet, Regis J.; Best, Donald F.; Long, Gary N.; Rabo, Jule A.; and Wolynic, Edward T., 4,687,754, Cl. 502-65.000.

Rabold, Gary P.: *See*—
Reierson, Robert L.; and Rabold, Gary P., 4,659,861, Cl. 558-448.000.

Rabon, Joe D.; and Haro, Rudy, to Southern California Edison Company, Inc. Microcomputer controlled power regulator system and method. 4,695,737, 9-22-87, Cl. 307-31.000.

Rabuse, George R.: *See*—
Hanson, Gary R.; and Rabuse, George R., 4,673,324, Cl. 412-6.000.

Rabuse, Milton. Aquatic scrubbing device. 4,690,092, 9-1-87, Cl. 114-222.000.

Rabushka, Charles; and Reprogle, Layton J., to Rabushka, Charles. Tension actuated uncoupler. 4,682,795, 7-28-87, Cl. 285-1.000.

Rabushka, Charles; and Reprogle, Layton J. Tension actuated uncoupler. 4,691,941, 9-8-87, Cl. 285-1.000.

Raby, James M.: *See*—
Brunea, Robert W.; and Raby, James M., 4,639,271, Cl. 106-21.000.

Raby, Joseph S., to Harris Corporation. Process using tungsten for multilevel metallization. 4,650,696, 3-17-87, Cl. 427-89.000.

Racal Communications Equipment Limited: *See*—
King, Nigel J. R.; Pawson, Ian W. N.; Baker, Michael P.; Shaddock, Robert N.; and Stansfield, Edward V., 4,639,733, Cl. 342-424.000.

Racal Data Communications Inc.: *See*—
Baugh, Charles R., 4,652,906, Cl. 358-22.000.
Bledsoe, Robert E., 4,646,061, Cl. 340-347.0DD.
Bledsoe, Robert E., 4,700,175, Cl. 340-347.0DD.
de la Guardia, Mario; and Kao, Ming-Luh, 4,654,708, Cl. 358-143.000.
de Leon, Oscar C., Jr.; and Kreuter, Philip F., III, 4,658,210, Cl. 324-77.00R.
Huang, Zheng F., 4,700,341, Cl. 370-80.000.
Krishnan, Vedavalli G., 4,646,320, Cl. 375-8.000.
Kung, Ching Y.; and Bentley, Ronald L., 4,654,859, Cl. 375-1.000.
Lu, Chun C.; Miller, William J.; Stephenson, Jack E.; and Jayapalan, Jay P., 4,652,703, Cl. 379-339.000.
Miller, William J., 4,641,302, Cl. 370-60.000.
Pendse, Sudhir B., 4,707,829, Cl. 370-86.000.
Srinivasagopalan, Rangarajan; and Farias, Louis V., 4,689,804, Cl. 375-99.000.
Stegenga, Jerry A., 4,652,969, Cl. 361-384.000.

Racal Panorama Limited: *See*—
Feathers, Leonard J., 4,667,670, Cl. 128-204.260.

Raccah, Paul M.: *See*—
Michel, Christian G.; Schachter, Rozalie; Kuck, Mark A.; Baumann, John A.; and Raccah, Paul M., 4,713,192, Cl. 252-62.30R.
Schachter, Rozalie; Viscogliosi, Marcello; Bunz, Lewis A.; Olego, Diego J.; Serreze, Harvey B.; and Raccah, Paul M., 4,696,828, Cl. 427-38.000.

Racchi, Theodore T., to Chrysler Motors Corporation. Integral silencer pad and water deflector. 4,646,864, 3-3-87, Cl. 180-69.220.

Racchini, Loriano, to Ing. C. Olivetti & C., S.p.A. Apparatus for displaying images defined by a pluralityy of lines of data. 4,706,076, 11-10-87, Cl. 340-726.000.

Racer-Maje, Inc.: *See*—
Baatz, Wilfried, 4,674,742, Cl. 272-73.000.

Rach, Harry: *See*—
Newiger, Winfried; Walch, Wolfgang; Rach, Harry; and Kiessling, Michael, 4,707,116, Cl. 355-30.000.

Rach, Heinz-Dieter; Klose, Hans-Ulrich; and Frerichs, Udo, to Continental Gummi-Werke Aktiengesellschaft. Wheel and tire assembly for a vehicle. 4,635,697, 1-13-87, Cl. 152-544.000.

Rach, Heinz-Dieter; and Frerichs, Udo, to Continental Gummi-Werke Aktiengesellschaft. Rim for a pneumatic vehicle tire. 4,696,331, 9-29-87, Cl. 152-379.300.

Rachal, Richard N.: *See*—
Timpson, Alma A., Jr.; and Rachal, Richard N., 4,687,212, Cl. 277-205.000.

Rachanski, Michael A., to EEM Rachanski Enterprises, Inc. Different taper stud remover/installer. 4,651,596, 3-24-87, Cl. 81-53.200.

Rache, Horst: *See*—
Habfast, Karl-Eugen; Kappus, Gunter; Rache, Horst; and Winde, Bernd, 4,641,029, Cl. 250-288.000.

Rachels Industries, Inc.: *See*—
Dayus, Lloyd G., 4,672,890, Cl. 98-114.000.

Rachi, Masahiro: *See*—
Kyogoku, Hiroshi; Nozaki, Mineo; and Rachi, Masahiro, 4,655,130, Cl. 101-93.230.
Yoshikawa, Junichi; and Rachi, Masahiro, 4,712,000, Cl. 250-205.000.

Rachman, Isadore B., to U-Seal-It Vending Co., Inc. Vending machine. 4,702,392, 10-27-87, Cl. 221-151.000.

Rachner, Horst: *See*—
Bayha, Heiner; Kluge, Hermann; and Rachner, Horst, 4,694,211, Cl. 310-71.000.

Rachocki, Michael J.: *See*—
Weinerman, Lee S.; Rachocki, Michael J.; and Giarrizzo, John E., 4,683,736, Cl. 70-208.000.

Rachuk, T. W.: *See*—
Grauman, R. J.; Sponagle, G. W.; and Rachuk, T. W., 4,680,961, Cl. 73-170.00R.

Rachwalski, Thaddeus M.: *See*—
Lindeman, Richard J.; and Rachwalski, Thaddeus M., 4,639,056, Cl. 339-17.0LC.

Racik, Stanley A.: *See*—
Shaffer, Donald E.; Racik, Stanley A.; Lucas, Peter H.; and Vriesen, Calvin W., 4,671,744, Cl. 417-381.000.

Raciti, Salvatore: *See*—
Bertotti, Franco; Ferla, Giuseppe; Musumeci, Salvatore; and Raciti, Salvatore, 4,641,171, Cl. 357-46.000.

Rackett, Albert E.: *See*—
Chen, Wen-hsiung; Elliott, James P.; Newell, Robert E. G.; Nichols, Ralph E.; and Rackett, Albert E., 4,704,628, Cl. 358-136.000.

Rackin, Mark H., to Solid State Systems, Inc. Time division multiplexed switching structure for PBX. 4,674,083, 6-16-87, Cl. 370-67.000.

Rackman, Michael I. Cartridge-controlled system whose use is limited to authorized cartridges. 4,670,857, 6-2-87, Cl. 380-4.000.

Racs, Robert R., to Ferro Corporation. Retroreflective device having curved retroreflective surface. 4,653,955, 3-31-87, Cl. 404-14.000.

Racz, Gabor B.; and Lewis, Royce C. Constant pressure tourniquet. 4,637,394, 1-20-87, Cl. 128-327.000.

Rada, David C. Method for preparing tissue sections. 4,695,339, 9-22-87, Cl. 156-80.000.

Rada, Robert O.: *See*—
Harringer, Robert V.; Rada, Robert O.; and Vesely, Edward J., 4,681,208, Cl. 198-341.000.

Radaelli, Dario; and Giraudi, Walter, to Alfa Romeo Auto S.p.A. Electromagnetic injector for an I.C. engine. 4,711,400, 12-8-87, Cl. 239-585.000.

Radant Technologies, Inc.: *See*—
Sureau, Jean-Claude; and Leibinger, Janice M., 4,656,487, Cl. 343-909.000.
Sureau, Jean-Claude; and Krystofik, Steven S., 4,684,954, Cl. 343-909.000.

Radbruch, Jens: *See*—
Gengenbach, Bruno; Michal, Roland; and Radbruch, Jens, 4,644,118, Cl. 200-144.00R.

Radcliffe, Jerry K., to International Business Machines Corporation. Power supplies with magnetic amplifier voltage regulation. 4,642,745, 2-10-87, Cl. 363-21.000.

Raddatz, Peter; and Schmitges, Claus, to Merck Patent Gesellschaft mit beschrankter Haftung. Diamino acid derivatives. 4,666,888, 5-19-87, Cl. 514-18.000.

Raddatz, Peter: *See*—
Holzemann, Gunter; Raddatz, Peter; Jonczyk, Alfred; and Schmitges, Claus J., 4,709,010, Cl. 530-323.000.

Raddi, William J.; Johnson, Robert W., Jr.; Tracy, John G.; and Sonnenberg, Blazej W., to Exide Electronics Corporation. Uninterruptible power supply with isolated bypass winding. 4,673,825, 6-16-87, Cl. 307-66.000.

Rade, Jean-Yves: *See*—
Belot, Dominique; Rade, Jean-Yves; Piffard, Jean-Francois; Laquet, Christian; and Cornut, Philippe, 4,698,218, Cl. 423-347.00.

Radecca, Inc.: *See*—
Beall, Gary W., 4,650,590, Cl. 210-691.000.

Radecki, Francis A.; Hughes, Gary N.; and Goode, Henry C., to PPG Industries, Inc. Ablation melting with composite lining. 4,676,819, 6-30-87, Cl. 65-135.000.

Radecki, Peter P., Jr.: *See—*
Morgenthaler, Lee N.; Christenson, Thomas A.; and Radecki, Peter P., Jr., 4,670,305, Cl. 427-239.000.

Radek, John R.; Maks, Richard; and Vestuto, Russell, to Ready Metal Manufacturing Company. Magnetic door opener. 4,674,231, 6-23-87, Cl. 49-118.000.

Radek, John R., to Ready Metal Manufacturing Company. Merchandise hanger for slotted wall display panel. 4,678,151, 7-7-87, Cl. 248-220.200.

Radelet, Reginald P.: *See—*
Bergman, Frederick S.; and Radelet, Reginald P., 4,684,031, Cl. 212-179.000.

Rademacher, Friedrich; Sindermann, Siegmar; and Sushardt, Rolf, to Holstein und Kappert GmbH. Filling valve for use in the bottling of liquids. 4,635,690, 1-13-87, Cl. 141-39.000.

Rademacher, Friedrich; Sindermann, Siegmar; and Sushardt, Rolf, to Holstein und Kappert GmbH. Filling machine for filling liquid under counterpressure. 4,679,603, 7-14-87, Cl. 141-39.000.

Rademacher, Hans; and Voges, Heinz-Werner, to Huls Aktiengesellschaft. Method for preparing lactams having 8 to 15 carbon atoms from the corresponding oximes. 4,689,412, 8-25-87, Cl. 540-464.000.

Rademacher, Karl A.: *See—*
Oelbermann, Max; and Rademacher, Karl A., 4,666,596, Cl. 210-228.000.

Rademacher, Peter: *See—*
Becker, James R.; Wehn, Peter; and Rademacher, Peter, 4,635,936, Cl. 273-67.00R.

Rademacher, Robert E., to Automated Machinery Systems, Inc. High speed, low vibration bread bagger. 4,671,048, 6-9-87, Cl. 53-572.000.

Rademacher, Thomas W.: *See—*
Dwek, Raymond A.; and Rademacher, Thomas W., 4,659,659, Cl. 435-18.000.

Rademacher, Wilhelm: *See—*
Buschmann, Ernst; Himmele, Walter; Eckhardt, Heinz; Ernst, Hansgeorg; Rademacher, Wilhelm; and Jung, Johann, 4,705,553, Cl. 71-76.000.

Rademachers, Jakob; Turban, Karlheinz; Franz, Gerhard; Fuhr, Werner; and Holle, Bernd, to Bayer Aktiengesellschaft. Process for the production of yellow-brown zinc ferrite pigments. 4,681,637, 7-21-87, Cl. 106-304.000.

Rademachers, Jakob: *See—*
Naumann, Rolf; Rademachers, Jakob; Buxbaum, Gunter; Rodi, Fritz; and Wand, Karl, 4,689,086, Cl. 106-290.000.

Rademaker, Gerrit; and van der Veer, Franciscus A. A., to U.S. Philips Corporation. Opto-electrical signal converter with stabilization. 4,709,154, 11-24-87, Cl. 250-551.000.

Rademakers, Petrus J., to Datawell B.V. Buoy. 4,639,227, 1-27-87, Cl. 441-1.000.

Radenkov, Strahil K.: *See—*
Hadjiski, Anatoli M.; Varbanov, Hristo P.; Mishonov, Michail T.; Stamov, Vladimir P.; Savov, Rosen P.; Radenkov, Strahil K.; Panev, Vladimir B.; and Velev, Alexander S., 4,638,607, Cl. 52-79.900.

Rader, Delbert L. Exercise apparatus. 4,700,945, 10-20-87, Cl. 272-127.000.

Rader, Robert: *See—*
Gloser, Wolfgang; Kuhn, Siegfried; Rader, Robert; Setzer, Friedhelm; Kienhofer, Hermann; and Muhlich, Werner, 4,662,253, Cl. 82-32.000.

Rader, Robert K.: *See—*
Andersen, David M.; Bitzer, Donald L.; Rader, Robert K.; Sherwood, Bruce A.; and Tucker, Paul T., 4,636,174, Cl. 434-335.000.

Radermacher, Herbert: *See—*
Halberschmidt, Friedrich; Reinmold, Heinz-Josef; Schwarzenberg, Norbert; Radermacher, Herbert; Blank, Kurt; Audi, Josef; and Vanaschen, Luc, 4,682,997, Cl. 65-106.000.

Radermacher, Wilhelm; and Czech, Johannes, to ANT Nachrichtentechnik GmbH. Operating point-stabilized linearized traveling wave tube amplifier. 4,701,717, 10-20-87, Cl. 330-149.000.

Radex Deutschland Aktiengesellschaft fur feuerfeste Erzeugnisse: *See—*
Hoffgen, Hans, 4,670,958, Cl. 29-252.000.

Radford, Kenneth C.: *See—*
Ho, Shih-Ming; and Radford, Kenneth C., 4,683,114, Cl. 376-419.000.

Radford, Leonard, to Padley & Venables Limited. Holder for a pick, and the combination of a pick and holder. 4,664,450, 5-12-87, Cl. 299-81.000.

Radford, Leonard: *See—*
Clemmow, Raymond J.; Radford, Leonard; and Thorpe, John D., 4,650,253, Cl. 299-81.000.

Radford, Steven R.: *See—*
Knighton, Kelly; Davis, J. Stanley; and Radford, Steven R., 4,664,205, Cl. 175-58.000.

Radiall Industrie: *See—*
Despouys, Jean-Bernard, 4,696,538, Cl. 350-96.200.

Radian Tool Corporation: *See—*
Headen, James, 4,709,598, Cl. 76-114.000.

Radians AB: *See—*
Vilhelmsson, Kennet, 4,678,273, Cl. 350-96.300.

Radiant Illumination, Inc.: *See—*
Pascalide, Chiriac, 4,682,078, Cl. 315-86.000.

Radiation Dynamics, Inc.: *See—*
Stine, Clifford R., 4,691,782, Cl. 168-12.000.

Radiator Specialty Company: *See—*
Cory, Milton T., 4,674,431, Cl. 116-63.00P.

Radice, John G., to Universal Instruments Corporation. Selective gripping of inside and outside of articles. 4,705,313, 11-10-87, Cl. 294-94.000.

Radice, Marco: *See—*
Palla, Ottorino; Gozzo, Franco; and Radice, Marco, 4,655,818, Cl. 71-90.000.
Palla, Ottorino; Gozzo, Franco; and Radice, Marco, 4,685,954, Cl. 71-90.000.

Radice, Peter F., to Pennwalt Corporation. Piezoelectric polymeric film balloon speaker. 4,638,207, 1-20-87, Cl. 310-328.000.

Radigan, Richard J.: *See—*
Hung, Paul L. K.; Radigan, Richard J.; and Rosen, David S., 4,713,298, Cl. 428-461.000.

Radin, George: *See—*
Chang, Albert; Cocke, John; Mergen, Mark F.; and Radin, George, 4,638,426, Cl. 364-200.000.

Radiological & Chemical Technology, Inc.: *See—*
Asay, Roger H., 4,636,266, Cl. 148-6.350.

Radiometer A/S: *See—*
Eisenhardt, Anne R.; and Hansen, Ole M., 4,687,000, Cl. 128-760.000.
Engell, John E.; and Mortensen, Svend, 4,686,012, Cl. 204-1.00T.
Klitgaard, Peter C.; and Pedersen, Knud G., 4,685,465, Cl. 128-635.000.
Rich, Russell; and Andersen, Joergen, 4,657,028, Cl. 128-765.000.

Radiplast AB: *See—*
Lindgren, Per G., 4,699,154, Cl. 128-754.000.

Radisch, Helmer: *See—*
Agethen, Heinrich; Gesenhues, Paul; Radisch, Helmer; Jandelelt, Otto; and Schafer, Wolfgang, 4,643,944, Cl. 428-349.000.
Frisch, Kurt C.; Klempner, Daniel; Radisch, Helmer; and Holzer, Gerhard, 4,705,721, Cl. 428-349.000.

Radisensor AB: *See—*
Hok, Bertil, 4,712,566, Cl. 128-748.000.

Radivojevich, Franz: *See—*
Dvorsky, Stephan; Radivojevich, Franz; and Joss, Hans, 4,689,233, Cl. 424-455.000.

Radke, Dietrich; Meger, Peter; and Zorcher, Heinz, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Floor of electrically heated melting furnace, particularly a direct current furnace. 4,692,930, 9-8-87, Cl. 373-72.000.

Radkov, Peyu V.: *See—*
Popov, Entcho N.; Stanilov, Krestyo A.; Apostolov, Rumen K.; Dundarov, Pantcho G.; Radkov, Peyu V.; Aderski, Pentcho K.; and Georgiev, Georgi A., 4,695,154, Cl. 310-156.000.

Radkowsky, Alvin, to Kernforschungszentrum Karlsruhe GmbH. Nuclear reactor. 4,678,619, 7-7-87, Cl. 376-173.000.

Radlof, George. Storable work stand. 4,676,491, 6-30-87, Cl. 269-69.000.

Radloff, Charles B.: *See—*
Hanis, Orest J.; Pennypacker, Frank C.; Radloff, Charles B.; and Schulman, Richard D., 4,709,266, Cl. 380-20.000.

Radmall, Paul, to Dowty Mining Equipment Limited. Fluid filtering systems. 4,636,306, 1-13-87, Cl. 210-108.000.

Radman, Anton J.: *See—*
Bauck, Randall C.; Radman, Anton J.; Thornock, Roy; Freeman, Robert D.; Kleczkowski, Peter; Losee, Paul D.; and Lyon, Michael, 4,658,318, Cl. 360-133.000.

Radom, Leon: *See—*
Jacob, Gernot; and Radom, Leon, 4,642,840, Cl. 15-323.000.
Jacob, Gernot; and Radom, Leon, 4,656,688, Cl. 15-327.00F.
Jacob, Gernot; and Radom, Leon, 4,678,486, Cl. 55-374.000.
Jacob, Gernot; and Radom, Leon, 4,715,084, Cl. 15-328.000.

Radomilovich, Donald, to Becor Western Inc. Suspended load measurement system. 4,677,579, 6-30-87, Cl. 364-567.000.

Radomski, Thomas A., to General Motors Corporation. Motor vehicle electrical system including a combined starter/generator. 4,684,814, 8-4-87, Cl. 290-31.000.

Radomski, Thomas A., to General Motors Corporation. Dual voltage electrical system. 4,686,442, 8-11-87, Cl. 320-17.000.

Radov, Lesley A.: *See—*
Thomas, Telfer L.; and Radov, Lesley A., 4,665,181, Cl. 544-237.000.

Radov, Mitchell C. Satellite earth station. 4,710,778, 12-1-87, Cl. 343-882.000.

Radovich, John M.: *See—*
Yunker, Stanley B.; and Radovich, John M., 4,703,010, Cl. 435-173.000.

Radovsky, Jonathan S., to Commodore Business Machines, Inc. Current mirror amplifier. 4,686,487, 8-11-87, Cl. 330-288.000.

Radscheit, Kurt: *See—*
Uhmann, Rainer; and Radscheit, Kurt, 4,691,008, Cl. 530-339.000.

Radt, Walter: *See—*
Reinehr, Ulrich; Sasse, Klaus; Jager, Gerhard; and Radt, Walter, 4,663,365, Cl. 523-122.000.
Reinehr, Ulrich; Buchel, Karl H.; Jager, Gerhard; Plempel, Manfred; and Radt, Walter, 4,670,336, Cl. 428-359.000.

Radtke, Joachim: *See—*
Heindke, Armin; and Radtke, Joachim, 4,655,446, Cl. 271-314.000.

Radtke, Manfred, to MERO-Werke Dr.-Ing Max Mengeringhausen GmbH & Co. Self-supporting composite plate, especially for double floors. 4,640,854, 2-3-87, Cl. 428-35.000.

Radtke, Manfred: *See*—
Ettischer, Helmut; Bethmann, Heinz-G.; Munz, Rolf; Radtke, Manfred; and Uffinger, Friedrich. 4,699,371, Cl. 271-99.000.

Radtke, Werner A.; and Rose, Joseph L.; to Plastic Specialties and Technologies, Inc. Valve mounting assembly for aerosol containers and the like. 4,704,778, 11-10-87, Cl. 29-235.000.

Radtke, Wolfgang; Borbely, Gyorgy; Fallhorn, Sebald; and Hollfritsch, Erich. Hollow floor. 4,637,184, 1-20-87, Cl. 52-220.000.

Raduchel, Bernd: *See*—
Skuballa, Werner; Raduchel, Bernd; Vorbruggen, Helmut; Mennesmann, Gerda; Losert, Wolfgang; and Casals-Stenzel, Jorge. 4,692,464, Cl. 514-530.000.
Skuballa, Werner; Raduchel, Bernd; Vorbruggen, Helmut; Elger, Walter; and Loge, Olaf. 4,699,920, Cl. 514-530.000.
Skuballa, Werner; Raduchel, Bernd; Schwarz, Norbert; Vorbruggen, Helmut; Casals-Stenzel, Jorge; Schillinger, Ekkehard; and Town, Michael H.. 4,708,963, Cl. 514-530.000.

Radulski, Charles A.; and Till, Henry R.; to Xerox Corporation. Transfer apparatus. 4,690,539, 9-1-87, Cl. 355-3.0TR.

Radulski, Charles A.: *See*—
Till, Henry R.; Warner, Fredrick A.; and Radulski, Charles A.. 4,684,238, Cl. 355-10.000.

Radunz, Hans-Eckart: *See*—
Irmscher, Klaus; Radunz, Hans-Eckart; Schulze, Ernst; and Rieling, Bernhard. 4,680,288, Cl. 514-63.000.

Radva Corporation: *See*—
Dickens, Luther L.. 4,653,718, Cl. 249-95.000.

Radvan, Bronislaw; and Skelding, William T. H.; to Wiggins Teape Group Limited, The. Moulded fibre reinforced plastics articles. 4,670,331, 6-2-87, Cl. 428-303.000.

Radvan, Bronislaw; and Till, Andrew.; to Wiggins Teape Group Limited, The. Fibre reinforced composite plastics material. 4,690,860, 9-1-87, Cl. 428-290.0C0.

Radvanyi, Laszlo : *See*—
Kasza, Tibor; Kakonyi, Gyula; Kocso, Illes; Buzas, Attila; and Radvanyi, Laszlo . 4,682,137, Cl. 335-284.000.

Radwanski, Fred R.; Wolfsen, Elizabeth A.; and Post, James L., to Kimberly-Clark Corporation. Method and apparatus for fiberizing fibrous sheets. 4,650,127, 3-17-87, Cl. 241-28.000.

Radwanski, Fred R.; Lau, Jark C.; and Post, James L., to Kimberly-Clark Corporation. Eductor airforming apparatus. 4,701,294, 10-20-87, Cl. 264-518.000.

Radyko, Keith S.: *See*—
Zaveri, Vikram; Heling, Dennis H.; and Radyko, Keith S.. 4,634,180, Cl. 297-341.000.

Radyne Corporation: *See*—
Entenman, Alan W.. 4,691,318, Cl. 371-43.000.

Radyne Limited: *See*—
Eveson, Anthony C.. 4,683,742, Cl. 72-43.000.

Radzikovsky, Alexandr N.: *See*—
Levchenko, Georgy T.; and Radzikovsky, Alexandr N.. 4,700,660, Cl. 118-726.000.

Rae, Malcolm C.: *See*—
Baker, Robin M.; Sargeant, Paul R.; Papper, Ernest G.; Oberoi, Bhusan K.; Smith, Frank A.; and Rae, Malcolm C.. 4,695,418, Cl. 264-151.000.

Rae, Ronald D. Fluid flow regulator. 4,651,729, 3-24-87, Cl. 128-203.140.

Rae-Smith, Adam R., to Quantel Limited. Image processing apparatus. 4,652,921, 3-24-87, Cl. 358-160.000.

Raeck, Carl A.: *See*—
Rubens, Louis C.; Alexander, Willard E.; and Raeck, Carl A.. 4,693,856, Cl. 264-45.400.

Raedisch, Dieter: *See*—
Wagenknecht, Juergen; and Raedisch, Dieter. 4,709,843, Cl. 227-156.000.

Raedisch, Helmer: *See*—
Breuer, Kornelia; Gelderie, Udo; Holzer, Gerhard; and Roedisch, Helmer. 4,684,694, Cl. 524-730.000.
Musil, Ingrid; Holzer, Gerhard; and Raedisch, Helmer. 4,657,796, Cl. 428-38.000.

Raemer, Daniel B., to Brigham and Women's Hospital. Respiration detector. 4,648,396, 3-10-87, Cl. 128-204.220.

Raes, Marc, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Electric circuit control device. 4,636,652, 1-13-87, Cl. 307-141.000.

Raesner, Dennis L.: *See*—
Person, Herman R.; Raesner, Dennis L.; and Meiners, Gayle L.. 4,692,655, Cl. 313-15.000.

Raether, Wolfgang: *See*—
Rosner, Manfred; and Raether, Wolfgang. 4,640,917, Cl. 514-222.000.

Raets, Hubert C., to U.S. Philips Corporation. Circuit arrangement for switching a current in an inductive load. 4,642,750, 2-10-87, Cl. 363-56.000.

Raets, Hubert C., to U.S. Philips Corporation. Circuit for switching current in an inductive load. 4,695,770, 9-22-87, Cl. 315-207.000.

Raets, Hubert C., to U.S. Philips Corporation. Resonant circuit arrangement for switching the current in an inductive load. 4,700,083, 10-13-87, Cl. 307-253.000.

Raets, Joseph G. G.: *See*—
Dijkmans, Eise C.; Raets, Joseph G. G.; and Philips, Norbert J. I.. 4,688,001, Cl. 330-273.000.
Dijkmans, Eise C.; Raets, Joseph G. G.; and Philips, Norbert J. I.. 4,706,035, Cl. 330-156.000.
Dijkmans, Eise C.; Raets, Joseph G. G.; and Philips, Norbert J. I.. 4,706,039, Cl. 330-297.000.

Raetz, Warren V.. Stabilizer device. 4,708,362, 11-24-87, Cl. 280-763.100.

Raeuber, Armin: *See*—
Eyer, Achim; Raeuber, Armin; and Schillinger, Norbert. 4,690,70[illegible] Cl. 419-23.000.

Rafa Laboratories Ltd.: *See*—
Bar-Shalom, Daniel. 4,665,063, Cl. 514-164.000.

Rafael, Aruth: *See*—
Meier, Hans-Joachim; and Rafael, Aruth. 4,667,810, Cl. 110-245.000.

Rafael, Werner: *See*—
Merten, Gerhard; Rafael, Werner; and Schloener, Ru[illegible] 4,679,429, Cl. 73-168.000.

Rafalow, Philip. Portable guide for power saw. 4,660,450, 4-28-87, Cl. 83-467.00R.

Ra'sut S.A.: *See*—
Billot, Jean. 4,658,698, Cl. 89-1.550.

Rafelson, Stephen. Disposable suction catheter and system for providing multiple suctioning capabilities during medical procedures or the like. 4,662,871, 5-5-87, Cl. 604-119.000.

Raff, Donald K., to Stepan Company. Deresination method of wood pulp. 4,673,460, 6-16-87, Cl. 162-75.000.

Raffalski, Karl-Heinz, to Theta Industries, Inc. Deformation dilatometer platens. 4,687,343, 8-18-87, Cl. 374-56.000.

Raffalski, Karl-Heinz: *See*—
Baricevac, Thomas A.; and Raffalski, Karl-Heinz. 4,636,09[illegible] Cl. 374-56.000.

Raffault, Gerard. Machine for packing products in a thermoretractable film. 4,667,456, 5-26-87, Cl. 53-557.000.

Raffel, Jack I.; Yasaitis, John A.; and Chapman, Glenn H., to Massachusetts Institute of Technology. Method and apparatus for forming low resistance lateral links in a semiconductor device. 4,636,64[illegible] 1-13-87, Cl. 427-53.100.

Raffel, Peter: *See*—
Durl, Bernd; Bos, Johannes; Ong, Sienling; Raffel, Peter; and Brozat, Kurt. 4,680,033, Cl. 8-449.000.

Rafferty, Michael F.; and Johnson, Graham, to Warner-Lambert Company. Benzoic acid and benzoic acid ester derivatives having anti-flammatory and analgesic activity. 4,689,152, 8-25-87, Cl. 260-404.000.

Rafferty, Robert P.: *See*—
Rice, Verle L.; Rafferty, Robert P.; and Keenen, Richard A.. 4,646,605, Cl. 83-782.000.

Rafferty, William; and Saulnier, Gary J., to General Electric Company. Variable-delay, sine-cosine non-coherent demodulator. 4,647,864, 3-3-87, Cl. 329-122.000.

Raffin, Thomas A.; and Stevens, John H., to Leland Stanford Junior University, The Board of Trustees of the. Method for the treatment of adult respiratory distress syndrome. 4,656,100, 4-11-87, Cl. 424-85.000.

Raffoni, Giuseppe. Clip fastener for corner jointing section profile elements. 4,681,498, 7-21-87, Cl. 411-461.000.

Rafi-Zadeh, Hassan. Cover assembly for pickup truck bed. 4,673,208, 6-16-87, Cl. 296-100.000.

Rafikian, Faraz; and Rafikian, Manoucher, deceased, [illegible] Rafikian, Faraz. Safety lowering or descent parachute system for disabled helicopters and other similar types of hovering aircraft. 4,709,881, 12-1-87, Cl. 244-17.150.

Rafikian, Manoucher, deceased: *See*—
Rafikian, Faraz; and Rafikian, Manoucher, deceased. 4,709,881, Cl. 244-17.150.

Rafter, Ned M.: *See*—
Willey, Donald E.. 4,635,306, Cl. 5-431.000.

Raftery, William. Furniture support. 4,700,430, 10-20-87, Cl. 16-18.0CG.

Ragacs, Laszlo: *See*—
Nadudvari, Josaef; and Ragacs, Laszlo. 4,675,103, Cl. 210-[illegible]50.000.

Ragan, Lawrence H.; Hartmann, Clinton S.; and Ash, Darrell L., to R. F. Monolithics, Inc. Electronic ticket method and apparatus for television signal scrambling and descrambling. 4,663,664, 5-5-87, Cl. 380-16.000.

Ragan, Lawrence H.; Hartmann, Clinton S.; and Ash, Darrell L., to R. F. Monolithics, Inc. Descrambler unit method and apparatus for television signal descrambling. 4,682,223, 7-21-87, Cl. 380-16.000.

Ragan, Lawrence H.; Hatmann, Clinton S.; and Ash, Darrell L., to R. F. Monolithics, Inc. System, method, and apparatus for television signal scrambling and descrambling. 4,682,224, 7-21-87, Cl. 380-16.000.

Ragard, Philip A., to Universal Instruments Corporation. Component pick and place spindle assembly with compact internal linear and rotary displacement motors and interchangeable tool assemblies. 4,705,311, 11-10-87, Cl. 294-2.000.

Ragazzoni, Silvio: *See*—
Camosso, Domenico; Colanzi, Franco; and Ragazzoni, Silvio. 4,640,238, Cl. 123-90.550.

Ragen, Peter D. Circular plant mobile. 4,691,473, 9-8-87, Cl. 47-67.000.

Rager, Robert. Magnetic disc storage container. 4,676,372, 6-30-87, Cl. 206-45.230.

Raggett, William C. P. Cutting device. 4,654,999, 4-7-87, Cl. 47-6.000.

Raggio, Charles M.: *See*—
Pratt, Clyde R.; Carignan, Roger G.; Raggio, Charles M.; and Woznick, Chuck P.. 4,636,219, Cl. 623-22.000.

Raghavan, Chidambaram, and Olsen, John H., to Flow Industries, Inc. Ultra-high pressure hose assembly. 4,649,963, 3-17-87, Cl. 138-130.000.
Raghunathan, Kuppuswamy, Jorvig, Jeffrey R., and Smith, Stephen L., to Motorola, Inc. High voltage decoder. 4,689,504, 8-25-87, Cl. 307-449.000.
Raghunathan, Kuppuswamy. *See*—
Wilbur, Brian F.; Gallup, Michael; Suchyta, John; and Raghunathan, Kuppuswamy, 4,698,750, Cl. 364-200.000.
Raghupathi, Narasimhan. *See*—
Lea, Peter C.; Hedden, Jerry C.; and Raghupathi, Narasimhan, 4,681,802, Cl. 428-288.000.
Rajab, Youssef. Emergency aircaft landing device. 4,653,706, 3-31-87, Cl. 244-110.000.
Ragland, Frank R., Jr., to RCA Corporation. Vibration control of color picture tube shadow mask. 4,645,968, 2-24-87, Cl. 313-407.000.
Ragland, Glen W. *See*—
Diaz, Stephen H.; Debbaut, Christian A. M.; Humphries, William R.; Lawrence, Alvah A.; Ragland, Glen W.; and Shimrak, Gerald L., 4,648,919, Cl. 156-48.000.
Ragle, Herbert U., to Burroughs Corporation. Photoelectric tape profile detector for file security. 4,682,039, 7-21-87, Cl. 250-560.000.
Ragle, Herbert U. *See*—
DeMoss, Dean; and Ragle, Herbert U., 4,713,705, Cl. 360-98.000.
DeMoss, Dean L.; and Ragle, Herbert U., 4,670,803, Cl. 360-99.000.
Ragn-Sellsföretagen AB. *See*—
Hall, Lars, 4,682,549, Cl. 110-345.000.
Ragnebring, Chris, to Akab of Sweden AB. Device for folding an edge of a fabric for making a hem. 4,648,336, 3-10-87, Cl. 112-147.000.
Ragnegard, Samuel, to AB Hedemora Verkstader. Rotating disc filter. 4,655,920, 4-7-87, Cl. 210-331.000.
Ragnegard, Samuel, to AB Hedemora Verkstader. Rotating disc filter. 4,676,901, 6-30-87, Cl. 210-331.000.
Ragnegard, Samuel, to AB Hedemora Verkstader. Filter for continuous filtering of a suspension under pressure. 4,695,381, 9-22-87, Cl. 210-403.000.
Ragon, Philippe. *See*—
Perotto, Christian; and Ragon, Philippe, 4,657,607, Cl. 149-19.400.
Ragonese, Louis J. *See*—
Hwang, Ying C.; Chen, Young K.; and Ragonese, Louis J., 4,638,190, Cl. 307-512.000.
Ragonnet, Jean-Paul. *See*—
Channeau, Alain; Crotet, Eric; Kerdraon, Alain; and Ragonnet, Jean-Paul, 4,714,022, Cl. 102-476.000.
Ragot, Jean C. R., to Lapouyade S.A. Device for gripping and transferring load supports or containers using synchronous endless chains with drive fingers, mounted to transversely adjustable modules. 4,659,949, 4-14-87, Cl. 104-172.300.
Ragusa, Robert P. *See*—
Hoult, Robert A.; and Ragusa, Robert P., 4,682,022, Cl. 250-214.00A.
Rahaim, Thomas J., and Xanthopoulos, Nicholas D., to Westinghouse Electric Corp. Exhaust stack support arrangement. 4,693,045, 9-15-87, Cl. 52-292.000.
Rahbe, Georgette; Marzin, Roger; Cavicchioli, Ivan; and Krasuk, Julio, to Intevep, S.A. Recycle of unconverted hydrocracked residual to hydrocracker after removal of unstable polynuclear hydrocarbons. 4,655,903, 4-7-87, Cl. 208-96.000.
Rahbe, Georgette; Marzin, Roger; Cavicchioli, Ivan; Krasuk, Julio; and Solan, Rodolfo B., to Intevep, S.A. Process for producing anode grade coke employing heavy crudes characterized by high metal and sulfur levels. 4,676,886, 6-30-87, Cl. 208-50.000.
Rahier, Andre; Cornelissen, Rene D. W.; and Bruggeman, Aime, to Studiecentrum voor Kernenergie, S.C.K. Electrolyser for highly active iritiated water. 4,714,533, 12-22-87, Cl. 204-262.000.
Rahimzad, Antonio, to GTE Communication Systems Corporation. Diagnostic method for addressing arrangement verification. 4,637,019, 1-13-87, Cl. 371-16.000.
Rahimzad, Antonio, to GTE Communication Systems Corporation. Diagnostic method for addressing arrangement verification. 4,644,540, 2-17-87, Cl. 371-16.000.
Rahlwes, William C., and Carrasco, Ralph G., Jr., to Phillips Petroleum Company. Isomerization process. 4,654,452, 3-31-87, Cl. 585-253.000.
Rahlwes, William C., to Phillips Petroleum Company. Isomerization process. 4,655,484, 4-7-87, Cl. 585-253.000.
Rahlwes, William C., to Phillips Petroleum Company. Vortex breaker for use in a liquid-liquid separator or the like. 4,696,741, 9-29-87, Cl. 210-232.000.
Rahm, Erik R., to Atlas Copco Aktiebolag. Pneumatic rotary tool. 4,708,210, 11-24-87, Cl. 173-169.000.
Rahm, Heiko. *See*—
Erdmann, Hermann; and Rahm, Heiko, 4,710,359, Cl. 422-191.000.
Rahman, Altaf, and Navikas, Vincent J., to Thomson-CSF Broadcast, Inc. Apparatus and method for video signal processing. 4,694,357, 9-15-87, Cl. 360-9.100.
Rahman, Zafar, to Bigelow-Sanford, Inc. Method of printing carpet tiles. 4,655,784, 4-7-87, Cl. 8-148.000.
Rahmede, Karl-Heinz, and Stemmer, Horst-Heinz, to TRW Ehrenreich GmbH & Co. KG. Ball joint. 4,695,181, 9-22-87, Cl. 403-135.000.
Rahmig, Hermann. *See*—
Muhle, Erwin; and Rahmig, Hermann, 4,642,862, Cl. 29-132.000.
Rahn, Carl H. *See*—
Stein, Norman R.; and Rahn, Carl H., 4,662,523, Cl. 211-59.200.
Rahn, Eckhard F., to Miller Brewing Company. Keg cap. 4,705,188, 11-10-87, Cl. 220-367.000.
Rahn, Melanie H.; and Braun, Jane E., to Laporte, Dorothy, a part interest. Adult/child communication kit. 4,639,226, 1-27-87, Cl. 434-433.000.
Rahn, William H. *See*—
Dobson, Dewey H.; and Rahn, William H., 4,658,889, Cl. 165-48.100.
Rahrig, Thomas F., and Hall, Thomas E., to United Technologies Automotive, Inc. Sealed electrical connector assembly. 4,690,478, 9-1-87, Cl. 439-271.000.
RAI - Radiotelevisione Italiana. *See*—
Barbieri, Gianfranco; and Garola, Ugo, 4,689,661, Cl. 358-12.000.
Rai, Surinder S. *See*—
Boler, Clifford H.; Leake, William W.; Rai, Surinder S.; and Zemske, Gene B., 4,638,187, Cl. 307-451.000.
Rai, Vish; Southall, Kenneth; Webster, Timothy; Leeke, Gordon; and Chu, Chaokang, to Cuno Inc. Chromatography column. 4,675,104, 6-23-87, Cl. 210-198.200.
Raich, William J. *See*—
DeLassus, Philip; and Raich, William J., 4,694,068, Cl. 528-502.000.
Raiche, H. Anthony. *See*—
Walters, Paul W.; Raiche, H. Anthony; Harness, Ronald L.; and Quodala, Genaro M., 4,698,212, Cl. 422-144.000.
Raichle Sportschuh AG. *See*—
Walkhoff, Klaus, 4,644,671, Cl. 36-117.000.
Raichlen, Fredric; and Lee, Jun-Jen, to Wave Power Industries, Ltd. Wave power converter. 4,698,969, 10-13-87, Cl. 60-502.000.
Raid, Larry J. *See*—
Hilty, Calvin A.; and Raid, Larry J., 4,673,153, Cl. 248-231.800.
Raidel, John E. Vehicle suspension assembly. 4,691,937, 9-8-87, Cl. 280-711.000.
Raidel, John E. Air suspension assembly with universal pivoted hanger bearings and rigid mount angular torque spring-beam. 4,705,294, 11-10-87, Cl. 280-711.000.
Raidel, John E. Suspension system with sway guide. 4,711,465, 12-8-87, Cl. 280-712.000.
Raidel, John E. Wide base type suspension assembly with parallelogram torque beams and four air springs. 4,714,269, 12-22-87, Cl. 280-683.000.
Raidel, John E., Sr. Fork mount mono-wheel suspension. 4,690,427, 9-1-87, Cl. 280-694.000.
Raidt, Joe B. *See*—
Wille, Herbert S.; Przybylinski, Philip G.; and Raidt, Joe B., 4,690,072, Cl. 105-406.100.
Raikka Oy. *See*—
Hyyppa, Juho, 4,642,147, Cl. 149-19.900.
Railcar Specialties, Inc. *See*—
Cummings, Ralph E.; and Brzezinski, Denis R., 4,683,678, Cl. 49-426.000.
Loomis, Russell M., 4,638,743, Cl. 105-377.000.
Railmaster System, Inc. *See*—
Wicks, Harry O.; and Riefler, Monte P., 4,669,391, Cl. 105-4.300.
Rails Company. *See*—
Burwell, Gar W. N., 4,687,134, Cl. 238-349.000.
Railsback, Craig R. Transmission. 4,661,086, 4-28-87, Cl. 474-84.000.
Railsback, Henry E., to Phillips Petroleum Company. Conductive (hard) rubber compositions. 4,642,202, 2-10-87, Cl. 252-511.000.
Railway Engineering Associates, Inc. *See*—
List, Harold A., 4,655,143, Cl. 105-168.000.
List, Harold A., 4,706,571, Cl. 105-168.000.
Railway Equipment Company. *See*—
Fox, David K., 4,666,108, Cl. 246-125.000.
Raimond, Jacques. *See*—
Nicolau, Claude; and Raimond, Jacques, 4,716,114, Cl. 435-172.300.
Raimond, Michel. *See*—
Helderle, Paul M.; and Raimond, Michel, 4,551,827, Cl. 166-317.000.
Rainbow Star Licensing S.A. *See*—
Mancel, James D.; and Raiskums, Olaf B., 4,661,197, Cl. 156-443.000.
Raine, Edward M. Vehicle immobilization device. 4,649,724, 3-17-87, Cl. 70-226.000.
Raine, Laurence. *See*—
Hsu, Su-Ming; and Raine, Laurence, 4,684,609, Cl. 435-7.000.
Rainer, Alois, to Siemens Aktiengesellschaft. Multiplication unit and method for the operation thereof. 4,679,165, 7-7-87, Cl. 364-760.000.
Rainer, Alois; Ulbrich, Walter; and Gazsi, Lajos, to Siemens Aktiengesellschaft. Method and apparatus for reading samples of a time-dependent signal in a data processing system. 4,706,188, 11-10-87, Cl. 364-200.000.
Rainer, Alois. *See*—
Ulbrich, Walter; Rainer, Alois; and Noll, Tobias, 4,675,837, Cl. 364-788.000.
Rainer, Erich. *See*—
Benzinger, Hans; and Rainer, Erich, 4,663,597, Cl. 330-107.000.
Rainer, Georg; Figala, Volker; and Kohl, Bernhard, to Byk Gulden Lomberg Chemische Fabrik GmbH. Picoline derivative useful as gastric acid secretion inhibitors. 4,686,230, 8-11-87, Cl. 514-338.000.
Rainer, Norman B.; and McClung, Charles S., to Philip Morris Incorporated. Filter material for the removal of nitric oxide. 4,637,408, 1-20-87, Cl. 131-331.000.
Rainer, Norman B., to Philip Morris Incorporated. Cigarettes having minimized loose ends and a process for preparing same. 4,715,388, 12-29-87, Cl. 131-309.000.
Raines, Charles D., to Phicon Corporation. Peelable seal package. 4,656,068, 4-7-87, Cl. 428-35.000.

Raines, Charles D.: *See*—
Hanks, James V.; Raines, Charles D.; and Dayen, Leonid, 4,633,991, Cl. 192-85.0CA.
Hanks, James V.; Raines, Charles D.; and Dayen, Leonid, 4,679,675, Cl. 192-67.00R.
Schilling, Hugh K.; Dayen, Leonid; and Raines, Charles D., 4,648,493, Cl. 192-18.00A.

Raines, Kenneth; and McGaughey, John, to Burron Medical Inc. Micron chamber I.V. with support ring. 4,664,800, 5-12-87, Cl. 210-445.000.

Raines, Kenneth; and Horner, Gary, to Burron Medical Inc. Temper-resistant protective capping device for filled syringes. 4,671,408, 6-9-87, Cl. 206-365.000.

Raines, Kenneth, to Burron Medical Inc. Self-contained secondary solution set. 4,687,473, 8-18-87, Cl. 604-251.000.

Raines, Kenneth C., to Burron Medical Inc. Normally closed automatic reflux valve. 4,683,916, 8-4-87, Cl. 137-854.000.

Raines, Max. *See*—
Wickers, Francis A.; and Raines, Max, 4,694,766, Cl. 112-262.100.

Rainey, Patricia G.: *See*—
Seeman, Ronald D., 4,662,016, Cl. 5-508.000.

Rainey, Robert D. Mat foldable into an insulated bag. 4,671,393, 6-9-87, Cl. 190-1.000.

Rainey, Tommy D.: *See*—
Cain, Jerry T.; Mason, James M.; and Rainey, Tommy D., 4,701,087, Cl. 410-94.000.

Rainin Instrument Co., Inc.: *See*—
Magnussen, Haakon T., Jr.; Smith, Gary L.; Ruskewicz, Stephen J.; and Wingo, Anthony K., 4,671,123, Cl. 73-864.160.
Rainin, Kenneth; and Ruskewicz, Stephen, 4,676,377, Cl. 206-508.000.
Shackelford, Carl L.; and Rainin, Kenneth, 4,655,917, Cl. 210-198.200.
Shackelford, Carl L.; and Rainin, Kenneth, 4,670,141, Cl. 210-198.200.

Rainin, Kenneth; and Ruskewicz, Stephen, to Rainin Instrument Co., Inc. Enclosed pipette tip rack. 4,676,377, 6-30-87, Cl. 206-508.000.

Rainin, Kenneth. *See*—
Shackelford, Carl L.; and Rainin, Kenneth, 4,655,917, Cl. 210-198.200.
Shackelford, Carl L.; and Rainin, Kenneth, 4,670,141, Cl. 210-198.200.

Rairden, John R., III, to General Electric Company. Method of producing extended area high quality plasma spray deposits. 4,681,772, 7-21-87, Cl. 427-34.000.

Rairden, John R., III, to General Electric Company. Method of producing high quality plasma spray deposits of complex geometry. 4,683,148, 7-28-87, Cl. 427-34.000.

Raisa, Luigi. *See*—
Romano, Ugo; Sasselli, Giacomo; and Raisa, Luigi, 4,670,606, Cl. 568-410.000.

Raisin, Jean-Pierre; and Canaud, Alain, to Institut Textile de France. Guiding device for the formation of a fold along the edge of a fabric. 4,714,036, 12-22-87, Cl. 112-147.000.

Raisin, Jean-Pierre. *See*—
Bachmann, Jean-Marie; Pion, Jacques; and Raisin, Jean-Pierre, 4,682,553, Cl. 112-121.120.

Raiski, Juhani. Assembly for attaching a cutter blade into a chain saw. 4,677,746, 7-7-87, Cl. 30-122.000.

Raiskums, Olaf B.: *See*—
Mancel, James D.; and Raiskums, Olaf B., 4,661,197, Cl. 156-443.000.

Raisleger, Ronald J., to Eltrax Systems, Inc. Encoding method and related system and product. 4,645,916, 2-24-87, Cl. 235-494.000.

Raistrick, James H.: *See*—
Alford, Neil M.; Birchall, James D.; Howard, Anthony J.; Kendall, Kevin; and Raistrick, James H., 4,677,082, Cl. 501-88.000.

Raiszadeh, Moussa: *See*—
Vasquez, Tony E.; Lyons, Kenneth P.; Raiszadeh, Moussa; and Fardi, Manouchehre, 4,670,245, Cl. 424-1.100.

Raith, Siegfried K., to Cameronics Technology Corporation, Ltd. Camera. 4,708,467, 11-24-87, Cl. 355-53.000.

Raitto, David A. Nightstick. 4,667,958, 5-26-87, Cl. 273-84.00R.

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Ralph, James L. Grill structure. 4,702,055, 10-27-87, Cl. 52-456.000.

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Johnson, William M.; and Mere, Ilmar, 4,638,856, Cl. 172-762.000.
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Young, Hartley F., 4,685,618, Cl. 238-310.000.
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Betz, Norman L.; and Degoey, Larry W., 4,686,205, Cl. 514-25.000.
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Krinski, Thomas L.; and Steinmetz, Alan L., 4,711,116, Cl. 106-154.100.
Lin, Santa H. C.; and Cho, Myong J., 4,642,238, Cl. 426-74.000.
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Steinmetz, Alan L.; and Krinski, Thomas L., 4,687,826, Cl. 527-201.000.
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Remp, Stephen E.; Ewen, Rodger M. H.; and Cumming, Norman S., 4,704,986, Cl. 118-318.000.

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Borras, Jaime A.; Mitchell, Timothy A.; and Ramos, Ozzie F., 4,670,747, Cl. 340-825.560.
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Rampal, Jang B.: *See*—
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Rampen, William H. S. Hydraulic control valves. 4,694,849, 9-22-87, Cl. 137-312.000.
Rampley, Neal: *See*—
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Rampuria, Sampat M.; and Warmack, Ralph E., to Standard Oil Company. Seismic data transcription system. 4,663,743, 5-5-87, Cl. 367-68.000.
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Ramsden, Steven L., to Grain Processing Corporation. Fermentation methods and apparatus. 4,713,345, 12-15-87, Cl. 435-305.000.
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Ramsey, Douglas P.; and O'Brien, Michael J. Self-sealing closure. 4,712,704, 12-15-87, Cl. 220-254.000.
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Berry, Peter F.; Miller, Wendell D.; and Nethery, John L., Jr., 4,686,694, Cl. 378-120.000.
Ramsey, Ernest B., to West Point Pepperell, Inc. Apparatus for spray dyeing. 4,676,078, 6-30-87, Cl. 68-205.00R.

Ramsey, Everett M., Gray, Bruce A., and Evans, Donald C., to Aluminum Company of America. Process and apparatus for removing volatiles from metal. 4,715,810, 12-29-87, Cl. 432-8.000.

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Ramsey, Maynard, III; Medero, Richard; and Hood, Rush W., Jr., to Critikon, Inc. Automated diastolic blood pressure monitor with data enhancement. 4,638,810, 1-27-87, Cl. 128-681.000.

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Ramsey, Robert W., Jr., to Nuclear Energy Systems, Inc. Resilient domed partition. 4,669,506, 6-2-87, Cl. 138-89.000.

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Ramsey, Sherry L.: *See*—
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Ramshaw, Colin, to Imperial Chemical Industries plc. Separation process utilizing centrifugal rotor. 4,687,585, 8-18-87, Cl. 210-787.000.

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Ramspacher, Robert J.; and Butcher, Charles, to RCA Corporation. Method of fixedly attaching a component to a base member. 4,672,732, 6-16-87, Cl. 29-429.000.

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Bridghan, John; Geiser, Timothy G.; Hunkapiller, Michael W.; Kent, Stephen B. H.; Marriott, Mark P.; Ramstad, Paul O.; and Nordman, Eric S., 4,668,476, Cl. 422-62.000.

Ramtek Corporation: *See*—
Goldstein, Arthur, 4,698,746, Cl. 364-200.000.
Smith, David M., 4,646,262, Cl. 364-900.000.
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McMillan, Larry; Paz de Araujo, Carlos; and Rohrer, George A., 4,713,157, Cl. 204-192.110.
Rohrer, George A.; and McMillan, Larry, 4,707,897, Cl. 29-25.420.

Ramun, John: *See*—
Ramun, Michael; and Ramun, John, 4,670,983, Cl. 30-134.000.
Ramun, Michael; and Ramun, John, 4,686,767, Cl. 30-134.000.

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Ramunas, Valdas S., to Erickson Tool Company. Locking tool holder. 4,710,077, 12-1-87, Cl. 409-232.000.

Ramus, Gary D.; and Ahnen, Christopher R., to Continental Thermal Design, Inc. Pollution control device. 4,666,677, 5-19-87, Cl. 422-183.000.

Ramus, Kevin J.; and Youngs, John D., to Ford Motor Company. Method for making an electrically heatable windshield. 4,654,067, 3-31-87, Cl. 65-60.500.

Ramus, Kevin J., to Ford Motor Company. Method of making an electrically heated, glass vision unit. 4,668,270, 5-26-87, Cl. 65-106.000.

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Cassal, Jean-Marie; Edenhofer, Albrecht; and Ramuz, Henri, 4,692,450, Cl. 514-256.000.
Fischli, Albert; Krasso, Anna; Ramuz, Henri; and Szente, Andre, 4,634,710, Cl. 514-338.900.
Hengartner, Urs; and Ramuz, Henri, 4,680,310, Cl. 514-539.000.

Ranade, Gautam R., to Celanese Corporation. Oxygen desorption for improved color of polyesters. 4,661,580, 4-28-87, Cl. 528-176.000.

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McKee, John M.; and Ranalletta, Joseph V., 4,716,501, Cl. 362-31.000.

Ranallo, Frank N.: *See*—
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Ranani, Ami C. Tinted contact lens fitter. 4,703,964, 11-3-87, Cl. 294-1.100.

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Kornbrekke, Henning N.; Cirkot, David M.; and Ranaudo, Anthony R., 4,698,937, Cl. 49-25.000.

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Ranco Electronics Division: *See*—
Conaway, Douglas F.; and Trammell, Harold L., Jr., 4,675,540, Cl. 307-115.000.

Ranco Incorporated: *See*—
Caldwell, Roland B., 4,703,625, Cl. 60-602.000.
Cholkeri, Pandu R., 4,667,069, Cl. 200-83.00P.
Marks, Robert T., 4,712,582, Cl. 137-625.290.
Rossi, Guglielmo, 4,647,737, Cl. 200-67.00F.

Rancour, David P.: *See*—
Archambeault, Bruce R.; and Rancour, David P., 4,641,358, Cl. 382-68.000.

Rancourt, James D.: *See*—
Martin, Robert L., Jr.; and Rancourt, James D., 4,663,557, Cl. 313-112.000.

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Cox, Larry B.; Johnson, William C.; and Marpoe, Roland W., 4,653,553, Cl. 141-114.000.

Rand, John A.: *See*—
Eikelboom, Teunis; Rand, John A.; and van Dijk, Pieter M., 4,655,972, Cl. 260-404.000.

Rand, Paul K.: *See*—
Newell, Robert E.; Rand, Paul K.; and Osterweil, Carole A., 4,678,106, Cl. 222-162.000.

Rand, Robert W. Medical apparatus for inducing scar tissue formation in a body. 4,638,803, 1-27-87, Cl. 128-325.000.

Rand, Roy E.; and Wang, Dan Y., to Imatron, Inc. Electron beam deflecting magnet assembly for a scanning electron beam computed tomography scanner. 4,644,168, 2-17-87, Cl. 250-398.000.

Rand, Stephen C.; and DeShazer, Larry G., to Hughes Aircraft Company. Solid state laser employing diamond having color centers as a laser active material. 4,638,484, 1-20-87, Cl. 372-42.000.

Rand, Stephen C., to United States of America, Air Force. Hybrid single crystal optic fibers by growth solution. 4,647,330, 3-3-87, Cl. 156-621.000.

Randa, Stuart K., to Du Pont de Nemours, E. I., and Company. Thin wall cover on foamed insulation on wire. 4,711,811, 12-8-87, Cl. 428-383.000.

Randa, Stuart K., to Du Pont de Nemours, E. I., and Company. Thin wall high performance insulation on wire. 4,716,073, 12-29-87, Cl. 428-215.000.

Randa, Wallace H. Pre-engineered building and method of assembling same. 4,653,239, 3-31-87, Cl. 52-90.000.

Randaccio, Carlo, to Spada, Vittorio. Photochemical process to eliminate lead in gasoline with a high octane number. 4,643,810, 2-17-87, Cl. 204-157.300.

Randall, Beryl D.: *See*—
Jansen, Norman A.; and Randall, Beryl D., 4,691,806, Cl. 187-9.00R.

Randall, Brian G.: *See*—
Lehnert, Charles W.; and Randall, Brian G., 4,647,496, Cl. 428-251.000.

Randall, Bruce E., to Sangamo Weston, Inc. Charge balance voltage-to-frequency converter utilizing CMOS circuitry. 4,695,742, 9-22-87, Cl. 307-271.000.

Randall, David: *See*—
Brown, James P.; May, Ronald N.; and Randall, David, 4,703,069, Cl. 521-174.000.

Randall, Everett H., to Stanley-Bostitch, Inc. Shipping package containing coiled fastener packages. 4,712,676, 12-15-87, Cl. 206-338.000.

Randall Industries: *See*—
Truckenbrodt, Randall, 4,639,031, Cl. 296-24.00R.

Randall, Kent A., to Eastman Kodak Company. Compact console electrographic reproduction apparatus. 4,652,112, 3-24-87, Cl. 355-3.00R.

Randall, Kent A., to Eastman Kodak Company. Electrographic reproduction apparatus capable of producing duplex copies. 4,688,925, 8-25-87, Cl. 355-3.0TR.

Randall, Kent A., to Eastman Kodak Company. Recirculating document feeder. 4,714,241, 12-22-87, Cl. 271-3.100.

Randall, Leslie L., to Monsanto Company. Constant-volume sample cutter. 4,664,004, 5-12-87, Cl. 83-125.000.

Randall, Osro W., III; Kernstock, John M.; Hanlon, Nicholas S.; and Erickson, Stephen H., to Dow Chemical Company, The. Method for improving the tuft bind of textile coverings. 4,654,247, 3-31-87, Cl. 428-95.000.

Randall, Pamela M. Jewelry clasp. 4,700,438, 10-20-87, Cl. 24-599.000.

Randall, Paul D. Reversible safety wire pliers. 4,665,953, 5-19-87, Cl. 140-118.000.

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Claytor, Thomas N.; Ockert, Carl E.; and Randall, Richard, 4,696,191, Cl. 73-600.000.

Randall, Russel R., to Dresser Industries, Inc. Method for induced gamma ray logging. 4,645,926, 2-24-87, Cl. 250-256.000.

Randall, Russel R., to Dresser Industries, Inc. Method for induced gamma ray logging. 4,656,354, 4-7-87, Cl. 250-256.000.

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Gray, Timothy P.; Randall, Russel R.; and Schmidt, Mathew G., 4,668,863, Cl. 250-256.000.

Randfar, Magnus; and Kroening, Terry R., to Artos Engineering Company. Adjustably positional crank pin support means for wire feeding apparatus. 4,638,904, 1-27-87, Cl. 198-468.200.

Randazzo, Matthew J., to Conax Buffalo Corporation. Metal-encased light conductor. 4,687,293, 8-18-87, Cl. 350-96.230.

Randig, George W., to United States of America, Air Force. Survivable ground base sensor. 4,683,474, 7-28-87, Cl. 342-368.000.

Randke, Peter T.: *See*—
Graf, Hans-Juergen; and Randke, Peter T., 4,696,411, Cl. 220-281.000.

Randklev, Ronald M., to Minnesota Mining and Manufacturing Company. Orthodontic bracket adhesive and abrasive for removal thereof. 4,695,251, 9-22-87, Cl. 433-8.000.

Randlett, M. Ronald: *See*—
Bower, Terry F.; Randlett, M. Ronald; and Shinopulos, George, 4,683,938, Cl. 164-413.000.

Rando, Joseph F.; and Koop, Dale E., to Spectra-Physics, Inc. Sealed rotary compressor. 4,674,960, 6-23-87, Cl. 417-420.000.

Rando, Joseph F.; and Jones, Henry W., to Spectra-Physics, Inc. Beam delivery system for a CO_2 laser. 4,698,479, 10-6-87, Cl. 219-121.0LV.

Rando, Joseph F.; and Koop, Dale E., to Spectra-Physics, Inc. Fast axial flow laser circulating system. 4,709,372, 11-24-87, Cl. 372-58.000.

Rando, Joseph F.: *See*—
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Randolph, Barney J.: *See*—
Buren, Lawrence L.; James, Donald R.; Randolph, Barney J.; Teach, Eugene G.; Tilles, Harry; and Walker, Francis H., 4,695,314, Cl. 71-100.000.

Randolph, Troy D. Combination gear drive with improved clutch assembly. 4,676,352, 6-30-87, Cl. 192-8.00R.

Randolph, Walter J. Coaxial coupling. 4,690,481, 9-1-87, Cl. 439-585.000.

Randow, Albert: *See*—
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Randow, Rodney L.: *See*—
Beckley, Ronald S.; Randow, Rodney L.; and Swift, Graham, 4,683,100, Cl. 260-513.00R.

Rands, Mary, executor: *See*—
Rands, Steve A., deceased; and Rands, Mary, executor, 4,665,657, Cl. 51-103.0TF.

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Rane, Melody A. Disposable baby bottle. 4,678,092, 7-7-87, Cl. 215-11.00E.

Raney, Charles C., to Preco Industries, Inc. Die press having 3-axis registration system operable during material advancement. 4,697,485, 10-6-87, Cl. 83-34.000.

Raney, Richard C. Radially stabilized drill bit. 4,690,229, 9-1-87, Cl. 175-325.000.

Raney, Richard C.: *See*—
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Raney, Ty A.: *See*—
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Ranford, Alan B.; and Fecht, David C., to Sherwood Medical Company. Vena caval catheter. 4,680,029, 7-14-87, Cl. 604-280.000.

Ranford, Alan B.: *See*—
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Rangachar, Hemmige V., to RCA Corporation. Method of apparatus for depositing oxide-cathode precursor material on a cathode substrate by air spraying. 4,649,061, 3-10-87, Cl. 427-78.000.

Ranganath, Tirumala R., to Hughes Aircraft Company. Bipolar electrode scheme for electro-optic semiconductor waveguide devices. 4,706,103, 11-10-87, Cl. 357-30.000.

Ranganayaki, Rambabu P., to Mobil Oil Corporation. Plotting of magnetotelluric impedance to determine structure and resistivity variation of anomalies. 4,686,476, 8-11-87, Cl. 324-350.000.

Rangaswamy, Avvari. Antistasis device. 4,669,722, 6-2-87, Cl. 272-96.000.

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Range, Kenneth A. Combination trash can and vacuum cleaner attachment. 4,673,424, 6-16-87, Cl. 55-356.000.

Ranger, Alan E., to Internationale Octrooi Maatschappij "Octropa" B.V. Method and apparatus for laminating foil to a substrate. 4,647,332, 3-3-87, Cl. 156-285.000.

Rangert, Bo R.; and Alm, Christer L., to AB Electrolux. Base structure of a motor saw. 4,700,480, 10-20-87, Cl. 30-383.000.

Rangert, Bo R.: *See*—
Andreasson, Bo C.; and Rangert, Bo R., 4,692,753, Cl. 340-671.000.

Rangfors, Gosta. Bag having string-shaped suspending element. 4,675,910, 6-23-87, Cl. 383-19.000.

Rangu, Hiroyoshi: *See*—
Kaede, Kazuhisa; and Rangu, Hiroyoshi, 4,669,086, Cl. 372-32.000.
Yanase, Tomoo; and Rangu, Hiroyoshi, 4,636,821, Cl. 357-17.000.

Rangwala, Badrudden K.; Rodocker, Frank A.; Pawloski, Curtis H.; and Joosten, Richard L., to Ex-Cell-O Corporation. Container sterilization apparatus. 4,683,701, 8-4-87, Cl. 53-167.000.

Rangwala, Badruddin K.: *See*—
McDonald, Kenneth P.; Rangwala, Badruddin K.; Owen, Barry C.; and Rodocker, Frank A., 4,712,665, Cl. 198-346.200.

Ranieri, James E.: *See*—
Kapoor, Anoop; Choby, Edward J.; Kramer, Thomas J.; Ranieri, James E.; Roth, Charles H., Jr.; Scheffer, Donald E.; Spehar, John E., Jr.; Bessko, Csaba; and Blumstein, Robert M., 4,715,111, Cl. 29-723.000.

Raninen, Jaakko; Savioja, Heikki; Koivula, Antti; Saariaho, Jorma; Sihto, Reijo; and Valimaki, Yrjo, to Oy Partek AB. Window. 4,641,466, 2-10-87, Cl. 52-171.000.

Ranjan, Radha K.: *See*—
Frind, Gerhard; Carroll, James J.; Van Noy, John H.; Leach, John G.; and Ranjan, Radha K., 4,638,283, Cl. 337-162.000.

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Mumford, Ronald W. J., 4,703,365, Cl. 358-293.000.
Rodgers, Jeremy A., 4,694,345, Cl. 358-216.000.

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Bonye, Gordon R., 4,701,789, Cl. 358-65.000.

Rank, Kenneth A., Jr. Display carton. 4,694,955, 9-22-87, Cl. 206-45.290.

Rank, Mathaeus: *See*—
Roche, Peter; and Rank, Mathaeus, 4,649,162, Cl. 521-78.000.

Rank, William E.: *See*—
Horvath, Richard A.; Rank, William E.; and Whelan, James F., 4,633,983, Cl. 188-322.140.

Rank Xerox Limited: *See*—
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Ranka, Ajay I.; and Das, Suryya K., to PPG Industries, Inc. Process for preparing latex polymers from gaseous monomers. 4,642,323, 2-10-87, Cl. 524-458.000.

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Ranke, Gerhard; and Schrader, Ulrich, to Linde Aktiengesellschaft. Integrated production of ammonia and urea. 4,690,812, 9-1-87, Cl. 423-359.000.

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Ranke, Horst: *See*—
Aichert, Hans; Bauer, Volker; Feuerstein, Albert; and Ranke, Horst, 4,648,347, Cl. 118-720.000.

Ranken, Paul F.; and Ramachandran, Venkataraman, to Ethyl Corporation. Brominative aromatization of 4-cyclohexenylpyridines. 4,649,202, 3-10-87, Cl. 546-348.000.

Ranken, Paul F.; and Davis, Robert L., to Ethyl Corporation. Process for preparing (hydrocarbylthio) aromatic amines. 4,670,597, 6-2-87, Cl. 564-440.000.

Rankin, Arthur L., III, to Combustion Engineering, Inc. Highly abrasive resistant material. 4,678,131, 7-7-87, Cl. 241-293.000.

Rankin, Douglas A.: *See*—
McKinnon, Alan J.; Vivian, Allan J.; and Rankin, Douglas A., 4,671,884, Cl. 252-8.800.

Rankin, E. Edward. Side entry sub well logging apparatus and method. 4,678,038, 7-7-87, Cl. 166-301.000.

Rankin, E. Edward. Blowout preventer for a side entry sub. 4,699,216, 10-13-87, Cl. 166-385.000.

Ranks Hovis McDougall Ltd.: *See*—
Wiggins, Robert; King, William R.; Barker, Jeffrey G.; and Le Grys, Geoffrey A., 4,674,689, Cl. 241-6.000.

Ranks Hovis McDougall plc: *See*—
Roberts, David; and Williams, Michael R., 4,640,614, Cl. 356-36.000.

Ranne, Sulo: *See*—
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Rannigan, Robert C.; and Webber, Gregory E. Cleaning apparatus for paint rollers and the like. 4,709,717, 12-1-87, Cl. 134-199.000.

Ranpak Corp.: *See*—
Armington, Steven E., 4,650,456, Cl. 493-464.000.
Komaransky, Anthony J.; and Meyer, Henry L., 4,699,609, Cl. 493-357.000.

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Rasmussen, Jerald K.; Katritzky, Alan R.; Krepski, Larry R.; Smith, Howell K., II; Heilmann, Steven M.; and Sakizadeh, Kumars. Minnesota Mining and Manufacturing Company. Imidazolinone-containing polymer and copolymer. 4,667,012, 5-19-87, Cl. 528-332.00
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Krepski, Larry R.; Smith, Howell K., II; Rasmussen, Jerald K.; Heilmann, Steven M., 4,694,103, Cl. 562-450.000.
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Frey, Paul H.; Rasmussen, Jerome J. M.; and Churchill, Fred C., 4,688,299, Cl. 17-49.000.
Rasmussen, Laurits B.: *See*—
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Rasmussen, Villum B. K., to V. Kann Rasmussen & Co. Window to be used as a skylight or a front window. 4,672,774, 6-16-87, Cl. 49-371.000.

Rasmusson, James K. Self contained rotator apparatus. 4,662,178, 5-5-87, Cl. 60-721.000.

Rassicha, Stanley, to Dacor Corporation. Mouthpiece. 4,664,109, 5-12-87, Cl. 128-207.140.

Rasor Associates, Inc.: *See*—
Fitzpatrick, Gary O., 4,667,126, Cl. 310-306.000.

Rasor, Julia S.; and Tickner, Ernest G., to Schering Aktiengesellschaft. Microbubble precursors and apparatus for their production and use. 4,657,756, 4-14-87, Cl. 424-9.000.

Rasor, Julia S.; and Tickner, Ernest G., to Schering Aktiengesellschaft. Method of production and use of microbubble precursors. 4,681,119, 7-21-87, Cl. 128-660.000.

Rasoul, Husam A. A., to Celanese Corporation. Benzothiazole-polyamide composition. 4,640,948, 2-3-87, Cl. 524-157.000.

Rasoul, Husam A. A.: *See*—
Calundann, Gordon W.; Rasoul, Husam A. A.; and Hall, Henry K., Jr., 4,654,412, Cl. 528-176.000.

Rasper, Susan M.; and Wiegand, James H., to Envirex Inc. Polymeric sludge collector flight. 4,663,042, 5-5-87, Cl. 210-525.000.

Raspet, Richard; and Wagner, Mark D., to United States of America, Army. Windscreen and two microphone configuration for blast noise detection. 4,712,429, 12-15-87, Cl. 73-646.000.

Rassaian, Mostafa, to General Motors Corporation. Three-axle railway truck steering linkage. 4,679,507, 7-14-87, Cl. 105-136.000.

Rasseneur, Laurent B.: *See*—
De Rigal, Jean P.; Leveque, Jean-Luc M.; Rasseneur, Laurent B.; and Losch, Marie-Jeanne, 4,682,608, Cl. 128-774.000.

Rasshofer, Werner; and Freitag, Hans-Albrecht, to Bayer Aktiengesellschaft. Process for the production of polyurethanes. 4,644,016, 2-17-87, Cl. 521-129.000.

Rasshofer, Werner; Meiners, Hans-Joachim; Seel, Klaus; and Wussow, Hans-Georg, to Bayer Aktiengesellschaft. Process for the production of microcellular or foamed moldings and compounds containing isocyanate-reactive groups suitable for carrying out this process. 4,645,630, 2-24-87, Cl. 264-54.000.

Rasshofer, Werner; Grogler, Gerhard; and Kopp, Richard, to Bayer Aktiengesellschaft. Tetrahydropyrimidines, a process for their production and their use as catalysts in the production of polyurethane plastics. 4,665,177, 5-12-87, Cl. 544-296.000.

Rasshofer, Werner; and Paul, Reiner, to Bayer Aktiengesellschaft. Process for the production of polyisocyanate compositions containing urea and/or biuret groups, the polyisocyanate compositions obtained by this process, and their use for the production of plastics by the isocyanate polyaddition process. 4,677,136, 6-30-87, Cl. 521-159.000.

Rasshofer, Werner; Paul, Reiner; Seel, Klaus; and Weber, Christian, to Bayer Aktiengesellschaft. Process for the production of polyisocyanates containing urea and/or biuret groups, preparations obtainable thereby and their use. 4,703,100, 10-27-87, Cl. 528-66.000.

Rasshofer, Werner; Ganster, Otto; Luckas, Brund; and Rottmaier, Ludwig, to Bayer Aktiengesellschaft. Process for the production of urethane-modified polyisocyanate preparations, the polyisocyanate preparations obtainable by this process and their use in the production of plastics based on polyisocyanates. 4,707,502, 11-17-87, Cl. 521-159.000.

Rasshofer, Werner: *See*—
Grogler, Gerhard; Kopp, Richard; Hess, Heinrich; and Rasshofer, Werner, 4,663,415, Cl. 528-61.000.

Rassieur, Charles L., to Central Mine Equipment Company. Earth drill rig. 4,638,871, 1-27-87, Cl. 173-26.000.

Rassmann, Christoph; Nickel, Gerhard; Steinkuhl, Bernd; Merten, Gerhard; and Pfefferle, Egon, to Gewerkschaft Eisenhutte Westfalia GmbH. Mineral mining installations. 4,715,659, 12-29-87, Cl. 299-43.000.

Rassmann, Christoph: *See*—
Annipajo, Wolfgang; Breuer, Oswald; and Rassmann, Christoph, 4,637,658, Cl. 299-79.000.

Rast, Gustaf J., Jr.: *See*—
Barley, Thomas A.; Hodgens, Tony D.; and Rast, Gustaf J., Jr., 4,673,940, Cl. 342-192.000.

Rast, Hans-Georg: *See*—
Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,634,673, Cl. 435-182.000.
Baumgarten, Jorg; Frommer, Werner; Mann, Theo; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,681,851, Cl. 435-262.000.

Rast, Hubert: *See*—
Vinge, Herbert; and Rast, Hubert, 4,666,939, Cl. 514-482.000.

Rast, John L. Roll-formed shear-resistant frame slat. 4,633,916, 1-6-87, Cl. 139-92.000.

Rast, Robert M.; and Wreford-Howard, David, to American Television & Communications Corporation. System for controlling communications on a cable television network. 4,684,980, 8-4-87, Cl. 358-86.000.

Rast, Robert M., to American Television & Communications Corporation. Cable television system. 4,710,956, 12-1-87, Cl. 380-20.000.

Rast, Robert M.: *See*—
Masuko, Akinori; Kuroiwa, Wataru; Uehara, Shouji; Uekusa, Tsutomu; Rast, Robert M.; and Campbell, W. Sherwood, 4,686,564, Cl. 358-86.000.

Rastegar, Ali, to Analog Devices, Inc. Interferometric analog-to-digital converter and method for operation. 4,694,276, 9-15-87, Cl. 340-347.0AD.

Rastelli, Agostino A., to Leitner Corporation. Food preparation table having a refrigerated ingredient zone. 4,685,311, 8-11-87, Cl. 62-258.000.

Raster-Union Efha Kohinoor GmbH & Co., KG: *See*—
Hieber, Helmut; and Scharz, Horst, 4,674,838, Cl. 350-322.000.

Ravoin, Blaise, to Transitube Projet. Machine for continuously and uniformly coating confectionery products. 4,658,708, 4-21-87, Cl. 99-323.900.

Raszewski, Lewis R., to Crowell Corporation, The. Heat sealing and packaging. 4,693,056, 9-15-87, Cl. 53-450.000.

Raszewski, Lewis R., to Crowell Corporation, The. Packaging laminate. 4,698,254, 10-6-87, Cl. 428-215.000.

Rat, Pierre: *See*—
Lebas, Jean-Marie; Rat, Pierre; Dupont, Jean-Marcel; and Vinuesa, Germain, 4,710,329, Cl. 264-3.100.

Ratchford, Lloyd G., to Allied Corporation. Quick release connector. 4,695,109, 9-22-87, Cl. 439-155.000.

Ratchford, Michael; Versailles, Richard E.; and Brown, Edward R., to United Technologies Corporation. Solid-state flight data recording system. 4,646,241, 2-24-87, Cl. 364-424.000.

Ratchford Michael: *See*—
Bue, Richard L.; and Ratchford Michael, 4,682,292, Cl. 364-424.000.

Ratcliff, Perry A. Method and composition for prevention and treatment of oral disease. 4,689,215, 8-25-87, Cl. 424-53.000.

Ratcliff, Perry A. Method and composition for prevention and treatment of oral disease. 4,696,811, 9-29-87, Cl. 424-53.000.

Ratcliffe, Charles T.; and Tromp, Petrus J., to Exxon Research and Engineering Co. Production of methanethiol from H_2S and CO. 4,668,825, 5-26-87, Cl. 568-70.000.

Ratcliffe, Marvin E. Electrified fence gate. 4,708,322, 11-24-87, Cl. 256-10.000.

Ratcliffe, Ronald W.: *See*—
Christensen, Burton G.; DiNinno, Frank P.; Leanza, William J.; and Ratcliffe, Ronald W., 4,650,794, Cl. 514-210.000.
Christensen, Burton G.; and Ratcliffe, Ronald W., 4,707,547, Cl. 540-310.000.
DiNinno, Frank P.; Leanza, William J.; Ratcliffe, Ronald W.; and Muthard, David A., 4,675,317, Cl. 514-192.000.

Ratcom, Inc.: *See*—
Thomas, Richard A.; and Eggleston, Ross W., 4,673,288, Cl. 356-72.000.

Ratell, Joseph M., to Raychem Corporation. Novel designs for packaging circuit protection devices. 4,647,894, 3-3-87, Cl. 338-22.00R.

Ratell, Joseph M., to Raychem Corporation. Materials for packaging circuit protection devices. 4,647,896, 3-3-87, Cl. 338-22.00R.

Ratemaker Tools, Inc.: *See*—
Ogilvie, Francis J.; and Harshman, Nathan J., 4,674,923, Cl. 407-31.000.

Raterman, Donald E.; and Amburn, James M., to Cummins Allison Corporation. Particle-type shredding mechanism. 4,693,428, 9-15-87, Cl. 241-167.000.

Raterman, John M.: *See*—
Boccagno, George E.; Raterman, John M.; Hadzimihalis, Theo M.; and Scholl, Charles H., 4,666,066, Cl. 222-146.500.

Rath, Anton, deceased; and by Rath, Margrit, heir. Electrostatic spray gun for coating material. 4,653,696, 3-31-87, Cl. 239-708.000.

Rath, Anton, deceased (by Rath, Margaret, heir), to Ransburg-Gema AG. Spray gun for coating material. 4,702,420, 10-27-87, Cl. 239-391.000.

Rath, Dieter; and Heitmeier, Rolf, to Intermedicat GmbH. Apparatus for hemodiafiltration. 4,708,802, 11-24-87, Cl. 210-641.000.

Rath, Ewald. Surgical sponge. 4,636,208, 1-13-87, Cl. 604-378.000.

Rath, Franz Joseph: *See*—
Mau, Volker, 4,652,478, Cl. 428-43.000.

Rath, Hans P.: *See*—
Bronstert, Klaus; Hochstein, Waldhelm; Mohr, Heinrich; Sandrock, Gerhard; Vogel, Hans-Henning; and Rath, Hans P., 4,663,406, Cl. 526-204.000.

Rath, Heinrich B.; and Schemmel, Winfried, to Lucas Industries public limited company. Signal transmitter for monitoring a brake lining. 4,685,540, 8-11-87, Cl. 188-1.110.

Rath, Heinrich B., to Lucas Industries public limited company. Wheel assembly including a disc brake for vehicles. 4,700,813, 10-20-87, Cl. 188-18.00A.

Rath, Heinrich-Bernhard, to Lucas Industries public limited company. Drum brake including three brake shoes. 4,700,816, 10-20-87, Cl. 188-323.000.

Rath, Heinrich-Bernhard; and Holz, Dietrich, to Lucas Industries public limited company. Automatic adjusting device for a brake. 4,706,783, 11-17-87, Cl. 188-79.50B.

Rath, Margaret, heir: *See*—
Rath, Anton, deceased, 4,702,420, Cl. 239-391.000.

Rath, Margrit, heir: *See*—
Rath, Anton, deceased; and Rath, Margrit, heir, 4,653,696, Cl. 239-708.000.

Rath, Mary L.: *See*—
Dougher, Christine A.; and Rath, Mary L., 4,692,952, Cl. 5-37.00R.

Rathbone, R. Rodion; and Wardlaw, Stephen C. Blood sampling device for obtaining small quantity of venous blood. 4,703,761, 11-3-87, Cl. 128-763.000.

Rathbone, R. Rodion; and Wardlaw, Stephen C. Blood sampling device for obtaining dual samples of venous blood. 4,703,762, 11-3-87, Cl. 128-763.000.

Rathbun, Gordon; and Rathbun, Mark L. Chuck key assembly. 4,652,001, 3-24-87, Cl. 279-1.00K.

Rathbun, Mark L.: *See*—
Rathbun, Gordon; and Rathbun, Mark L., 4,652,001, Cl. 279-1.00K.

Rathe, David D.: *See*—
Broberg, Theodore W.; and Rathe, David D., 4,667,162, Cl. 330-4.300.

Rathel, Dieter, to Webasto-Werk W. Baier GmbH & Co. Fuel-operated heating system, particularly an auxiliary heater for a vehicle. 4,637,371, 1-20-87, Cl. 126-110.00B.

Rathert, Horst; Grannemann, Gerhard; and Erdboris, Ulrich, to Kolbus GmbH & Co. KG. Delivery unit for bookbinding machines. 4,681,500, 7-21-87, Cl. 412-33.000.

Rathert, Rolf: *See*—
Vaubel, Gert; and Rathert, Rolf, 4,664,726, Cl. 148-328.000.

Rathgeb, Paul: *See*—
Hoegerle, Karl; Cellarius, Hans J.; Rathgeb, Paul; and Rumpf, Jurg, 4,686,294, Cl. 548-140.000.

Rathgeber, Juergen: *See*—
Lackner, John R.; Rathgeber, Juergen; and Newby, J. Parks, 4,653,638, Cl. 206-373.000.

Rathi, Devdas D., to ITT Gilfillan, a division of ITT Corporation. Soft-limited digital pulse compressor. 4,679,210, 7-7-87, Cl. 375-96.000.

Rathi, Ram N.; and Vaerk, Lembit, to Harnischfeger Corporation. Crane boom having variable angle offset capability. 4,653,655, 3-31-87, Cl. 212-188.000.

Rathke, Jerome W.; Klingler, Robert J.; and Heiberger, John J., to United States of America, Energy. Catalyst for producing lower alcohols. 4,656,152, 4-7-87, Cl. 502-170.000.

Rathke, Jorg: *See*—
Bauer, Anton E.; Billmann, Gerhard; Rathke, Jorg; Schimanek, Hans-Joachim; Schrott, Georg W.; and Wodok, Hans, 4,696,537, Cl. 350-96.200.

Rathke, William M., to Motorola, Inc. Dual voltage tracking control device. 4,644,251, 2-17-87, Cl. 323-267.000.

Rathmachers, Peter; and Donner, Bernd, to Schaller Automation Industrielle Automationstechnik KG. Connector assembly with resinous material securing electrical cable. 4,656,315, 4-7-87, Cl. 194-74.00R.

Rathmann, Dietrich: *See*—
Schmidt, Manfred; Paul, Winfried; Freitag, Dieter; and Rathmann, Dietrich, 4,681,922, Cl. 525-474.000.
Serini, Volker; Freitag, Dieter; and Rathmann, Dietrich, 4,714,746, Cl. 525-439.000.

Rathmell, William G.: *See*—
Parry, Keith P.; Rathmell, William G.; and Worthington, Paul A., 4,654,332, Cl. 514-184.000.

Rathnam, Premila: *See*—
Saxena, Brij B.; and Rathnam, Premila, 4,693,969, Cl. 435-7.000.

Rathod, Arun J.: *See*—
Stiles, Richard B.; and Rathod, Arun J., 4,654,500, Cl. 219-72.000.

Ratkowski, Donald J.; and Burke, William J., to Paragon Optical Inc. Lens composition articles and method of manufacture. 4,661,573, 4-28-87, Cl. 526-245.000.

Ratliff, George D., Jr., to USX Engineers & Consultants, Inc. Method of stripping an ingot from a sectional ingot mold and an improved sectional ingot mold therefor. 4,706,925, 11-17-87, Cl. 249-162.000.

Ratner, Buddy D.: *See*—
Hoffman, Allan S.; Garfinkle, Andrew; Ratner, Buddy D.; and Hanson, Stephen R., 4,656,083, Cl. 428-265.000.

Rattan, Dev R., and Parker, Robert R., to Bell & Howell Company. Computer controlled video device and slide projector interface arrangement. 4,698,770, 10-6-87, Cl. 364-900.000.

Ratte, Robert W. Machine for cold die casting malleable metals. 4,662,205, 5-5-87, Cl. 72-359.000.

Rattlingourd, Glen D.: *See*—
Miller, Larry J.; Johnson, Clifford T.; and Rattlingourd, Glen D., 4,680,759, Cl. 370-112.000.
Miller, Larry J.; Rattlingourd, Glen D.; and Johnson, Clifford T., 4,685,106, Cl. 370-112.000.

Rattner, David. Gas-fired radiant heater. 4,634,373, 1-6-87, Cl. 431-328.000.

Rattner, David. Sieve drum. 4,677,761, 7-7-87, Cl. 34-105.000.

Ratton, Serge, to Rhone-Poulenc Specialites Chimiques. Selective preparation of monohalohydroquinones. 4,683,346, 7-28-87, Cl. 568-765.000.

Rattray, Kendrick D.; and Plante, Leo J., to GTE Products Corporation. Fluorescent lamp substantially approximating the ultraviolet spectrum of natural sunlight. 4,703,224, 10-27-87, Cl. 313-487.000.

Rattray, Thomas; and Osher, John D., to Gerber Products Company. Adjustable enclosure. 4,645,183, 2-24-87, Cl. 256-25.000.

Rattray, Thomas: *See*—
Osher, John D.; and Rattray, Thomas, 4,651,367, Cl. 5-99.00R.

Rattunde, Manfred, to Reimers Getriebe AG. Plate link chain for cone pulley drives. 4,710,154, 12-1-87, Cl. 474-242.000.

Ratz, Gerhard: *See*—
Heller, Wilhelm; Flugge, Jurgen; and Ratz, Gerhard, 4,714,500, Cl. 148-12.00R.

Ratz, Kevin D., to S.O.S. Dies, Inc. Method for making stripping dies. 4,655,779, 5-19-87, Cl. 76-107.00R.

Ratzabi, Moshe. Vehicle automatic switching burglar alarm. 4,635,031, 1-6-87, Cl. 340-63.000.

Ratzel, Dieter: *See*—
Post, Hans; Ratzel, Dieter; Brunner, Peter; and Knuttel, Bernd, 4,694,249, Cl. 324-309.000.
Strobel, Bernhard; and Ratzel, Dieter, 4,697,148, Cl. 324-309.00.

Ratzky, Reiner, to Hilti Aktiengesellschaft. Hand-held motor-driven extruding device for dispensing a plastic substance. 4,653,675, 3-31-87, Cl. 222-390.000.

Ratzlaff, Marc H.; Frame, John M.; and Grant, Barrie D., to Washington State University Research Foundation. Electronic animal hoof force detection systems. 4,703,217, 10-27-87, Cl. 310-338.000.

Ratzlaff, Thomas D.: *See*—
Larsson, Peter L.; Parker, Robert; and Ratzlaff, Thomas D., 4,634,213, Cl. 339-275.00T.

Rau Fasteners Inc.: *See*—
Chapman, Wayne M., 4,700,449, Cl. 29-513.000.

Rau, Gunter. Measuring sensor for the non-invasive detection of electro-physiological quantities. 4,685,466, 8-11-87, Cl. 128-639.000.

Rau, Jim L.; and LaHue, Ronald L., to TRW Inc. Hydrostatic lost sense steering system. 4,665,695, 5-19-87, Cl. 60-384.000.

Rau, Karlheinz: *See*—
Ross, Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, Karl-Friedrich; Muhlich, Albert; Rau, Karlheinz; Ruffing, Wolfgang; Simmat, Fritz; Steinkohl, Anton; and Takke, Ralf, 4,676,814, Cl. 65-3.120.

Raubach, Manfred: *See*—
Ghibu, Michael; Hartel, Volker; Heynemann, Carl; and Raubach, Manfred, 4,683,979, Cl. 181-286.000.

Raubenheimer, Hans-Juergen: *See*—
Denzinger, Walter; Hartmann, Heinrich; Trieselt, Wolfgang; Hettche, Albert; Schneider, Rolf; and Raubenheimer, Hans-Juergen, 4,698,174, Cl. 252-174.240.
Messmer, Karlheinz; Hennig, Karl; Denzinger, Walter; Hettche, Albert; Trieselt, Wolfgang; and Raubenheimer, Hans-Juergen, 4,670,524, Cl. 526-88.000.

Raubenheimer, Johann N., to Fahet NV. Suction cleaner for submerged surfaces. 4,656,683, 4-14-87, Cl. 15-1.700.

Rauber, Norbert: *See*—
Nagl, Michael; Fugger, Gerhard; Mraz, Jaroslav; Mailander, Horst; Rottenmanner, Ernst; Rauber, Norbert; and Luger, Wolfgang, 4,708,643, Cl. 432-95.000.

Raubitschek, Andrew A.: *See*—
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Rauch, David J.: *See*—
Bischoff, Peter G.; Rauch, David J.; Retort, Vincent D.; and Osborne, John R., 4,694,368, Cl. 360-126.000.

Rauch, Gary C.: *See*—
Krause, Robert F.; and Rauch, Gary C., 4,645,547, Cl. 148-111.00.

Rauch, Hans: *See*—
Bontz, Jorg; Entenmann, Robert; Miller, Bernhard; Rauch, Hans; Rohde, Siegfried; Unland, Stefan; and Viess, Walter, 4,700,677, Cl. 123-425.000.

Rauch, Joyce: *See*—
Janoff, Andrew S.; Rauch, Joyce; and Tilcock, Colin P. S., 4,666,831, Cl. 435-13.000.
Janoff, Andrew S.; Rauch, Joyce; and Tilcock, Colin P. S., 4,698,299, Cl. 435-13.000.

Rauch, Sol, to Canadian Marconi Company. Status display system. 4,635,030, 1-6-87, Cl. 340-52.00F.

Rauchberger, Werner: *See*—
Burkhardt, Jurgen; and Rauchberger, Werner, 4,701,490, Cl. 524-425.000.

Rauchholz, Alvin W.: *See*—
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Rauchle, Kurt: *See*—
von Stetten, Otto; Seth, Pyare L.; Schmid, Franz; and Rauchle, Kurt, 4,711,906, Cl. 514-561.000.

Rauchwerger, George P. Hydro-arbon detector system. 4,663,614, 5-5-87, Cl. 340-605.000.
Raudabaugh, Donald E., to Harvey Hubbell Incorporated. Filament wrapped electrical assemblies and method of making same. 4,656,555, 4-7-87, Cl. 361-117.000.
Raudabaugh, James H.: *See*—
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Raudat, John L., and Thompson, Timothy H., to Standard-Knapp, Inc. Article grouper for case packer. 4,637,509, 1-20-87, Cl. 198-425.000.
Raudenbusch, Werner T.: *See*—
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Raudman, Charles J., and Smith, Philip E. Spill collector assembly for liquid storage vessels. 4,696,330, 9-29-87, Cl. 141-86.000.
Raudsepp, Rein; Peters, Ernest; and Beattie, Morris J. V. Process for recovering gold and silver from refractory ores. 4,647,307, 3-3-87, Cl. 75-118.00R.
Raudys, Vytas A., to Viskase Corporation. Disposable tension sleeve for a stuffing machine. 4,683,617, 8-4-87, Cl. 17-41.000.
Raue, Roderich: *See*—
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Telle, Helmut; Schieder, Rudolf; Raue, Roderich; and Eckstein, Udo, 4,670,882, Cl. 372-53.000.
Rauenbusch, Erich: *See*—
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Rauer, Kurt; and Orner, Angelika, to Luperox GmbH. Crosslinking of styrene polymers. 4,683,248, 7-28-87, Cl. 521-96.000.
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Munning, Hans; Bock, Jurgen; Oldach, Bernd; Ladic, Josef; Rauert, Max-Otto; Emde, Hugo; Petzsch, Dietrich; and de Baan, Johannes J., 4,673,067, Cl. 188-299.000.
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Pav, Josef; Rauf, Richard; Svenka, Peter; and Wenzel, Reinhard, 4,639,346, Cl. 264-280.000.
Pav, Josef; Wenzel, Reinhard; Svenka, Peter; and Rauf, Richard, 4,685,590, Cl. 100-168.000.
Raufast, Charles, to BP Chemicals Limited. Polymerization in several stages of alpha-olefins in the gas phase. 4,703,094, 10-27-87, Cl. 526-65.000.
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Raufeisen, Frank, to Standex International Corporation. Apparatus for thawing, retarding, and proofing bakery goods. 4,674,402, 6-23-87, Cl. 99-468.000.
Raught, Dean A., to Raught, Dean A. Ventilating mattress module systems for boats, recreational vehicles, and the like. 4,665,575, 5-19-87, Cl. 5-468.000.
Rauh, Francis: *See*—
Copenhafer, William C.; Pfeffer, Henry A., III; and Rauh, Francis, 4,654,204, Cl. 423-422.000.
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Rauland-Borg Corporation: *See*—
Singhi, Dilip T., 4,677,541, Cl. 364-145.000.
Raulerson, J. Daniel. Needle for membrane penetration. 4,666,438, 5-19-87, Cl. 604-272.000.
Raulins, George M. Well apparatus. 4,685,521, 8-11-87, Cl. 166-341.000.
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Rault, Michel; and Heno, Claude. High speed automatic test apparatus especially for electronic directory terminals. 4,707,849, 11-17-87, Cl. 379-28.000.
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Hannuniemi, Jukka, 4,676,735, Cl. 431-170.000.
Helpio, Pentti K., 4,693,202, Cl. 114-74.00A.
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Stewart, John B., Jr.; Szalvay, Laszlo; de Brunier, Bernard; and Simpson, Jeffrey W., 4,637,436, Cl. 138-89.000.
Szalvay, Laszlo, 4,713,870, Cl. 29-402.090.
Tondre, Stephen L.; and Lunk, Hans E., 4,678,709, Cl. 428-380.000.
Toy, Lester T.; and Magay, Daniel, 4,687,280, Cl. 439-874.000.
Triplett, James T.; Germeraad, Paul B.; Chan, Randolph W.; and Jensen, Michael L., 4,700,054, Cl. 219-545.000.
Uken, William D.; and Dubrow, Robert S., 4,643,924, Cl. 428-35.000.
Uken, William D., 4,647,717, Cl. 174-84.00C.
Uken, William D.; and Dubrow, Robert S., 4,662,692, Cl. 339-96.000.
Uken, William D.; Dubrow, Robert S.; Nelson, Carl; and Dittmer, Catherine A., 4,690,831, Cl. 427-44.000.
Vansant, Jan; Overbergh, Noel; Buekers, Valere; and Pieck, Amandus L. E., 4,680,065, Cl. 156-49.000.
Vidakovits, Lajos J., 4,696,841, Cl. 428-36.000.
Vogdes, Christine E.; and Kawazoye, Yutaka, 4,693,940, Cl. 428-422.000.
Weihe, Gary R.; and Lion, Roger D., 4,655,076, Cl. 73-73.000.
Whitney, Wells, 4,638,150, Cl. 219-543.000.
Wong, Geoffrey B.; and Lopez, Arthur W., Jr., 4,655,382, Cl. 228-56.300.
Yaeger, John R., 4,684,913, Cl. 337-140.000.
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Becker, Karlheinz; and Gerlach, Bernd, 4,666,164, Cl. 277-22.000.
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Raychem Limited. *See*—
Archer, Joel; Wassenhove, Denis V.; Pithouse, Kenneth B.; Buck, Leslie J.; Molyneux, Jeffrey P.; and Bradshaw, Peter S., 4,709,948, Cl. 285-381.000.
Booth, Michael; and Penneck, Richard J., 4,715,098, Cl. 29-25.350.
McLoughlin, Robert H.; Cook, John A.; and Park, George B., 4,675,258, Cl. 429-131.000.
Park, George B.; and Barker, David J., 4,707,388, Cl. 428-36.000.
Pithouse, Kenneth B.; Jones, Thomas P. H.; Lowe, Frank J.; and Skipper, Richard S., 4,639,545, Cl. 174-36.000.
Smith, Timothy S.; and Murphy, Richard J., 4,659,871, Cl. 174-113.00R.
Titcombe, Ian R. A.; and Strange, Ian A., 4,707,566, Cl. 174-78.000.
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Roux, Christian G.; and Chavaroux, Patrick R., 4,654,473, Cl. 174-84.00R.
Raycher, Robert J., Pease, Charles C., and Bernd, Kevin L., to KSM Fastening Systems Inc. Stud weldable refractory anchor. 4,669,943, 4-28-87, Cl. 52-378.000.
Kaycher, Robert J.; and Pease, Charles C., to KSM Fastening Systems Inc. Stud system for securing abrasion resistant members. 4,705,424, 11-10-87, Cl. 403-266.000.
Rayco Graphic Manufacturing, Inc.: *See*—
Switall, Thomas G., 4,637,341, Cl. 118-694.000.
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McConnell, Matthew L.; and Gibson, William A., 4,641,378, Cl. 455-619.000.
Rayflow Corp.: *See*—
Gallagher, Daniel M., 4,644,935, Cl. 126-437.000.
Rayhanabad, Simon B. Vascular shunt. 4,712,551, 12-15-87, Cl. 128-334.00R.
Raykovitz, Gary F.; and Salerno, Catherine, to National Starch and Chemical Corporation. Hot melt pressure sensitive positioning adhesives. 4,704,110, 11-3-87, Cl. 604-366.000.
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Rayment, Arthur G.; and Johanson, Herbert W., Jr., to Lamb-Weston, Inc. Food product cutter apparatus. 4,656,904, 4-14-87, Cl. 83-289.000.
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Andre, Guy; Gollin, Robert; and Daloia, Gaetan, 4,680,834, Cl. 24-16.0PB.
Raymond, Charles, Jr. Peristaltic diaphragm pump with conically shaped nutating members. 4,678,414, 7-7-87, Cl. 418-45.000.
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McCabe, Paul P.; and Woolston, James, 4,655,039, Cl. 60-328.000.
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Raymond Engineering Inc.: *See*—
Snyder, Robert F., 4,665,756, Cl. 73-862.210.
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Raymond, Gary E. Cassette assembly, for use with, and in combination with, a rolled sheet materials dispenser. 4,706,904, 11-17-87, Cl. 242-55.530.
Raymond, John: *See*—
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Raymond, Kenneth N.; Scarrow, Robert C.; and White, David L., to United States of America, Energy. Hydroxypyridonate chelating agents. 4,698,431, 10-6-87, Cl. 546-298.000.
Raymond Production Systems Corporation: *See*—
Bartylla, James G., 4,673,080, Cl. 198-689.100.
Welder, William C., 4,658,947, Cl. 198-346.200.
Raymond, Richard O., to Country Home Products, Inc. Mowing and trimming apparatus. 4,703,613, 11-3-87, Cl. 56-12.700.
Raymond, Robert J. Flexed fan umbrella apparatus. 4,658,843, 4-21-87, Cl. 135-19.500.
Raymond, Roger S., to Rockwell International Corporation. Vertical press. 4,635,461, 1-13-87, Cl. 72-342.000.
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Raymond, William J.; Morgan, Robert L.; and Miller, Ricky L., to Jostens Learning Systems, Inc. Phrase-programmable digital speech system. 4,639,877, 1-27-87, Cl. 364-513.500.
Raymond, William J.; Morgan, Robert L.; and Miller, Ricky L., to Jostens Learning Systems, Inc. Speech processor system with auxiliary memory access. 4,675,840, 6-23-87, Cl. 364-513.500.
Raymond, Yves. Precious stone setting. 4,648,248, 3-10-87, Cl. 63-28.000.
Raymont, John M., Jr., to Paul-Munroe Hydraulics, Inc. Snubbers and methods and apparatus for the in-place testing thereof. 4,702,105, 10-27-87, Cl. 73-168.000.
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Laruelle, Claude; Lepant, Marcel; and Raynier, Bernard, 4,661,512, Cl. 514-423.000.
Raynor, Grace M. Communications process and apparatus. 4,684,348, 8-4-87, Cl. 434-156.000.
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Beiswenger, John L., 4,635,170, Cl. 362-157.000.
Beiswenger, John L., 4,635,171, Cl. 362-187.000.
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Oltman, John E.; Dopp, Robert B.; and Carpenter, Denis D., 4,649,090, Cl. 429-29.000.
Oltman, John E.; and Sanden, Gerald F., 4,687,714, Cl. 429-27.000.
Van Dyke, Ted J., Jr., 4,684,589, Cl. 429-184.000.
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Cavestany, Adrian V., 4,679,545, Cl. 126-350.00R.
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Argentini, Dino E., 4,711,859, Cl. 437-209.000.
Armstrong, Bruce G.; and Principi, Fabio, 4,686,651, Cl. 365-226.000.
Baker, Thomas E.; Krasnow, S. Bert; and Silverman, Richard A., 4,658,332, Cl. 361-398.000.
Beckerleg, Richard A.; Fernald, Mark R.; LaTorre, Richard R.; and Grosso, Vincent A., 4,690,351, Cl. 244-3.160.
Berlinsky, Allan M., 4,646,321, Cl. 375-22.000.
Berlinsky, Allan M., 4,660,162, Cl. 364-723.000.
Bierig, Robert W.; and Pucel, Robert A., 4,635,062, Cl. 342-372.000.
Bond, Bruce E.; and Harrold, William J., 4,693,812, Cl. 209-224.000.
Borkowski, Michael T.; Laighton, David G.; and Altschul, Barry, 4,640,416, Cl. 357-74.000.
Bowen, Robert F.; Heath, Michael C.; and Martel, Thomas J., 4,663,506, Cl. 219-10.55E.
Brown, William C., 4,634,992, Cl. 330-47.000.
Byington, Roy E.; and Pease, William M., 4,713,794, Cl. 365-45.000.
Cantwell, Robert H., 4,636,973, Cl. 364-764.000.
Cantwell, Robert H., 4,680,588, Cl. 342-92.000.
Cantwell, Robert H., 4,694,417, Cl. 364-752.000.
Cantwell, Robert H.; Marksteiner, William K.; and Hansen, V. Gregers, 4,710,772, Cl. 342-92.000.
Cappon, Arthur M., 4,651,333, Cl. 377-77.000.
Clawson, Lawrence G., 4,665,628, Cl. 34-23.000.
Clawson, Lawrence G.; and Teich, Wesley W., 4,669,199, Cl. 34-82.000.
Clawson, Lawrence G., 4,681,085, Cl. 126-110.00R.
Conrad, George M.; and Smalley, Kenneth M., 4,697,096, Cl. 307-246.000.
Edstrom, Carl W.; Fedele, Daniel E.; and Lazar, Martin, 4,684,277, Cl. 400-639.100.
Eves, E. Eugene, II; and Maher, Thomas F., 4,684,777, Cl. 219-10.55A.
Faria, Lawrence E.; and Christopher, Earl H., 4,711,650, Cl. 62-6.000.
Feist, Wolfgang M., 4,677,456, Cl. 357-50.000.
Flanagan, Peter F.; and Lizza, Nicholas L., 4,664,459, Cl. 339-28.000.
Francis, Samuel A., 4,638,468, Cl. 367-153.000.
Galani, Zvi, 4,692,714, Cl. 331-1.00R.
Gentilman, Richard L., 4,686,128, Cl. 428-44.000.
Gill, Harry A., Jr., 4,641,108, Cl. 330-307.000.
Grosso, Vincent A.; Fitzgerald, Robert J.; and DeFonzo, Richard J., 4,676,456, Cl. 244-3.210.
Grosso, Vincent A.; Estlick, Raymond J.; and Zarr, William A., 4,690,350, Cl. 244-3.100.
Harris, David J.; and Vinn, Charles L., 4,701,641, Cl. 307-445.00.
Hazeltine, Michael B.; and Lipchak, W. Michael, Jr., 4,643,575, Cl. 356-351.000.
Henlin, Dennis A., 4,709,346, Cl. 364-784.000.
Hilton, Richard F., 4,700,327, Cl. 364-900.000.
Holz, Michael; and Dorschner, Terry A., 4,687,331, Cl. 356-350.000.
Howarth, Thomas R.; Flanagan, Peter F.; Harrold, William J.; and Rodberg, Kenneth, 4,703,464, Cl. 367-156.000.
Jerinic, George; Steele, Robert; and Fines, James R., 4,689,583, Cl. 331-56.000.
Kant, Rajni; and Chen, Kun-Nau, 4,691,161, Cl. 324-73.00R.
Kanter, Irving, 4,646,095, Cl. 342-149.000.
Kelley, Arthur W.; and Larsen, Charles J., 4,661,784, Cl. 331-83.000.
Kocher, Robert C., 4,707,073, Cl. 350-96.230.
Lee, Kyu-Woong; Durschlag, Mark S.; and Day, John, 4,670,297, Cl. 427-91.000.
Lewis, Edward T., 4,710,649, Cl. 307-451.000.
Liles, Barry J., 4,688,062, Cl. 357-22.000.
Lind, Earl R.; and Franklin, Ronald A., 4,697,253, Cl. 367-12.000.
MacMaster, George H.; and Nichols, Lawrence J., 4,677,342, Cl. 315-39.300.
Maguire, Edward A.; Hartnett, Thomas M.; and Gentilman, Richard L., 4,686,070, Cl. 264-1.200.
Mathewes, James K., Jr.; Eifrig, C. W. Gustav; Herman, Jan S.; Howes, H. Frank; and Schulz, Charles O., 4,669,081, Cl. 371-3.000.
Mazin, Moshe; and Lewis, Edward T., 4,675,838, Cl. 364-788.000.
Mazin, Moshe; and Lewis, Edward T., 4,704,701, Cl. 364-788.000.
Montrone, Dale L.; and Lewis, Edward T., 4,707,800, Cl. 364-788.000.
Murphy, Michael T.; and Connerney, William R., 4,654,887, Cl. 455-327.000.
Nelson, William H.; and Zampiello, Albert N., 4,652,132, Cl. 356-350.000.
Osepchuk, John M., 4,709,129, Cl. 219-10.55B.
Postema, Gerrit B.; and Schiffman, Howard G., 4,646,093, Cl. 342-151.000.
Pozzo, William M.; and Butler, John L., 4,642,802, Cl. 367-168.000.
Prickett, Robert J., 4,641,144, Cl. 343-754.000.
Pridham, Roger G., 4,697,254, Cl. 367-92.000.
Richards, Gerald P.; and Renard, Andre M., 4,684,897, Cl. 328-162.000.
Roy, Albert A.; and Monser, George J., 4,658,267, Cl. 343-786.000.
Roy, Albert A.; and Monser, George J., 4,672,384, Cl. 343-725.000.
Sa, Norbert; Miccioli, William F.; Chinchillo, A. Robert; and Toth, John F., 4,700,193, Cl. 342-427.000.
Schloemann, Ernst F. R. A., 4,651,116, Cl. 333-235.000.
Schwartz, Martin J.; Howes, H. Frank; and Edry, Richard J., 4,654,781, Cl. 364-200.000.
Schwerdt, Kurt R.; and Levine, Gerald B., 4,678,969, Cl. 315-382.000.
Selin, John R.; and Jessen, Donald N., 4,637,073, Cl. 455-78.000.
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Shovlin, Thomas D.; Torino, Arthur J., Jr.; Goodman, Donald W.; and Brown, William C., Jr., 4,652,882, Cl. 342-150.000.
Skow, Lawrence H., 4,639,644, Cl. 315-382.000.
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Sullivan, William B., Jr., 4,641,368, Cl. 455-239.000.
Tajima, Yusuke; and Pucel, Robert A., 4,660,006, Cl. 333-218.000.

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Van Rees, H. Barteld; and Whittier, Paul E., Jr., 4,689,094, Cl. 437-104.000.
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Waterman, John K., 4,695,766, Cl. 315-3.500.
Yarranton, Arthur; Chase, Charles E., Jr.; and Picquendar, Jean E., 4,639,697, Cl. 333-155.000.
Rayudu, S. Rao, to Buckman Laboratories, Inc. Process of preparing 1-methyl-3,5,7-triaza-1-azoniatricyclodecane halides. 4,650,866, 3-17-87, Cl. 544-186.000.
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Acampora, Alfonso; and Lu, Chung H., 4,684,983, Cl. 358-135.000.
Acampora, Alfonso A., 4,691,233, Cl. 358-136.000.
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Acett, John G.; and Schneller, Robert E., 4,662,053, Cl. 29-429.000.
Acett, John G., 4,693,370, Cl. 206-488.000.
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Ackley, Donald E., 4,641,311, Cl. 372-18.000.
Adelson, Edward H., 4,661,986, Cl. 382-41.000.
Ahmed, Syed M., 4,644,198, Cl. 307-549.000.
Albean, David L., 4,691,234, Cl. 358-144.000.
Alig, Roger C., 4,634,923, Cl. 313-413.000.
Alig, Roger C.; Bloom, Stanley; and Hockings, Eric F., 4,697,120, Cl. 313-412.000.
Allen, John K., 4,660,083, Cl. 358-168.000.
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Anderson, Charles H.; Carlson, Curtis R.; and Burt, Peter J., 4,692,806, Cl. 358-209.000.
Andreatti, Evio, Jr.; and Krufka, Frank S., 4,635,124, Cl. 358-227.000.
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Arbeiter, James H., 4,694,413, Cl. 364-724.000.
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Arlan, Lionel; Westcott, Peter W.; and Mageau, Paul J., 4,660,096, Cl. 358-310.000.
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Avery, Leslie R., 4,651,178, Cl. 357-13.000.
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Balaban, Alvin R.; Patel, Chandrakant B.; Demmer, Walter H.; and Harwood, Leopold A., 4,686,560, Cl. 358-19.000.
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Balaban, Alvin R.; and Steckler, Steven A., 4,698,679, Cl. 358-153.000.
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Balaban, Alvin R.; Harwood, Leopold A.; Patel, Chandrakant B.; and Demmer, Walter H., 4,703,340, Cl. 358-19.000.
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Basile, Philip C., 4,639,614, Cl. 307-243.000.
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Batra, Ram S.; and Pitcher, Kenneth A., 4,635,118, Cl. 358-166.000.
Beaulieu, Andre R., 4,678,271, Cl. 350-96.200.
Beaverson, Gregory K., 4,698,685, Cl. 358-213.150.
Bednarz, James P.; and Freedman, David D., 4,709,370, Cl. 377-38.000.
Bell, Alan E.; and Spong, Fred W., 4,661,941, Cl. 369-111.000.
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Bell, Isaac M., 4,677,462, Cl. 358-39.000.
Bell, Isaac M.; and Hollinden, David E., 4,689,663, Cl. 358-21.00R.
Bell, Isaac M., 4,704,631, Cl. 358-188.000.
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Belohoubek, Erwin F.; and Bechtle, Daniel W., 4,641,106, Cl. 330-286.000.
Bergen, James R.; and Carlson, Curtis R., 4,672,444, Cl. 358-140.000.
Bessler, Roger F.; Arbeiter, James H.; and Sinniger, Joseph O., 4,709,394, Cl. 382-49.000.
Beyers, Billy W., Jr., 4,641,205, Cl. 360-33.100.
Bingley, John D.; and Longcoy, Dennis F., 4,656,828, Cl. 60-203.100.
Bismarck, Otto H., 4,707,623, Cl. 307-475.000.
Blatter, Harold, 4,663,659, Cl. 380-14.000.
Blatter, Harold; and Carlson, David J., 4,667,243, Cl. 358-191.100.
Bloom, Stanley; and Hockings, Eric F., 4,651,051, Cl. 313-409.000.
Blumenfeld, Martin A.; and Bibby, Thomas F. A., Jr., 4,666,553, Cl. 156-643.000.
Bolger, Thomas V., 4,635,102, Cl. 358-27.000.
Bolger, Thomas V., 4,670,772, Cl. 358-11.000.
Booth, David E.; Smith, Steven G.; and Adams, John L., 4,678,448, Cl. 445-60.000.
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Brauer, Eric A., 4,646,204, Cl. 361-403.000.
Burt, Peter J.; and Adelson, Edward H., 4,698,843, Cl. 382-54.000.
Butler, Robert J.; and Schlameuss, Ronald G., 4,647,974, Cl. 358-185.000.
Butterwick, Gilbert N., 4,639,590, Cl. 250-213.0VT.
Callen, Patrick J.; Bingley, John D.; and Newell, Richard A., 4,796,010, Cl. 323-225.000.
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Campbell, Edward R., III; and Lewis, Henry G., Jr., 4,688,096, Cl. 358-167.000.
Carlson, Curtis R.; Arbeiter, James H.; and Bessler, Roger F., 4,674,125, Cl. 382-49.000.
Carrell, Ross M., 4,634,328, Cl. 414-117.000.
Carrell, Ross M., 4,648,588, Cl. 271-91.000.
Carrell, Ross M., 4,648,676, Cl. 339-97.00R.
Carrell, Ross M., 4,690,283, Cl. 209-549.000.
Carrell, Ross M., 4,697,689, Cl. 198-394.000.
Carrell, Ross M., 4,712,784, Cl. 271-108.000.
Carroll, Charles B.; and Houston, David L., 4,687,966, Cl. 313-440.000.
Cartwright, James M., Jr., 4,652,773, Cl. 307-469.000.
Casey, Robert F.; and Law, Kirk A., 4,656,501, Cl. 358-31.000.
Casey, Robert F.; and Weckenbrock, Hermann J., 4,672,445, Cl. 358-140.000.
Casey, Robert F., 4,698,675, Cl. 358-140.000.
Casey, Robert F., 4,700,365, Cl. 375-76.000.
Casey, Robert F., 4,712,130, Cl. 358-22.000.
Chambers, Robert W., 4,706,796, Cl. 198-345.000.
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Christopher, Lauren A., 4,709,226, Cl. 340-347.0DD.
Christopher, Todd J.; Willis, Donald H.; and Fling, Russell F., 4,638,360, Cl. 358-148.000.
Christopher, Todd J., 4,656,515, Cl. 358-183.000.
Christopher, Todd J., 4,694,414, Cl. 364-724.000.
Clark, David W.; and Freedman, Morton, 4,708,429, Cl. 350/96.200.
Clark, John F., 4,660,045, Cl. 342-361.000.
Cohen, Edward; Weaver, Clarence M., Jr.; and Duschl, Robert A., 4,639,775, Cl. 358-106.000.
Coleman, Clyde F., 4,644,408, Cl. 358-254.000.
Colton, Robert M., 4,686,617, Cl. 363-56.000.
Connolly, John C.; and Botez, Dan, 4,642,143, Cl. 148-171.000.
Corboy, John F., Jr.; Pagliaro, Robert H., Jr.; Jastrzebski, Lubomir L.; and Soydan, Ramazan, 4,698,316, Cl. 437-89.000.
Corrington, Donald G.; Hawkins, Stephen D.; and Sable, Daniel M., 4,688,250, Cl. 380-23.000.
Craft, Jack; Low, Michael L.; and Yorkanis, Bernard J., 4,714,571, Cl. 323-315.000.
Craig, Randy W.; and Gurley, Thomas D., 4,660,093, Cl. 358-243.000.
Craig, Randy W.; and Duvall, William E., 4,700,260, Cl. 361-150.000.
Crawford, Christopher L., 4,652,930, Cl. 358-227.000.
Crosby, Edward L., Jr., 4,688,758, Cl. 251-230.000.
Curtice, Walter R., 4,639,752, Cl. 357-16.000.
Dackow, Paul N., 4,642,772, Cl. 364-431.040.
D'Amato, Ralph J., 4,659,958, Cl. 313-405.000.
Dawson, Robert H.; and Schnable, George L., 4,668,973, Cl. 357-54.000.
Deal, Samuel B.; and Bartch, Donald W., 4,638,213, Cl. 313-479.000.
Deiss, Michael S., 4,638,181, Cl. 307-243.000.
Deiss, Michael S., 4,647,973, Cl. 358-181.000.
Del Priore, Paul J., 4,710,440, Cl. 430-5.000.
Demmer, Walter H., 4,694,326, Cl. 358-19.000.
Demmer, Walter H.; Harwood, Leopold A.; Patel, Chandrakant B.; and Balaban, Alvin R., 4,694,327, Cl. 358-19.000.

den Hollander, Willem; and Leonardi, Giovanni M., 4,701,793, Cl. 358-140.000.
Dennis, Timothy A., 4,698,132, Cl. 156-657.000.
Dennis, Timothy A., 4,710,261, Cl. 156-626.000.
DeShazo, Thomas R., Jr.; and Giordano, Raymond L., 4,672,302, Cl. 323-277.000.
DeVilbiss, Warren C., 4,701,744, Cl. 340-347.0DD.
Dietz, Wolfgang F. W., 4,634,939, Cl. 315-399.000.
Dietz, Wolfgang F. W., 4,645,985, Cl. 315-371.000.
Dietz, Wolfgang F. W., 4,652,920, Cl. 358-165.000.
Dietz, Wolfgang F. W.; and Henig, Sammy S., 4,660,080, Cl. 358-158.000.
Dietz, Wolfgang F. W., 4,675,580, Cl. 315-371.000.
Dietz, Wolfgang F. W., 4,675,581, Cl. 315-398.000.
Dietz, Wolfgang F. W., 4,709,193, Cl. 315-408.000.
Dingwall, Andrew G. F.; and Zazzu, Victor, 4,691,189, Cl. 340-347.0AD.
Dinkel, Nancy A.; Goldstein, Bernard; and Ettenberg, Michael, 4,691,320, Cl. 372-45.000.
Dischert, Robert A., 4,641,188, Cl. 358-140.000.
Dischert, Robert A.; Moles, Warren H.; Jose, David L.; and Walter, James M., 4,672,443, Cl. 358-140.000.
Dischert, Robert A.; Topper, Robert J.; and Shyu, William M., 4,673,978, Cl. 358-140.000.
Dischert, Robert A.; and Topper, Robert J., 4,677,483, Cl. 358-140.000.
Dischert, Robert A.; Ader, Joseph R.; and Topper, Robert J., 4,684,977, Cl. 358-31.000.
Dodds, Dennis L.; and Werst, Joseph L., 4,654,616, Cl. 335-212.000.
Dolny, Gary M.; and Goodman, Lawrence A., 4,641,164, Cl. 357-23.400.
Dolny, Gary M.; and Goodman, Lawrence A., 4,700,460, Cl. 437-81.000.
Dorsey, Denis P., 4,700,158, Cl. 333-202.000.
Dorsey, Denis P., 4,701,725, Cl. 333-185.000.
Dresner, Joseph, 4,697,197, Cl. 357-4.000.
Duran, Michael J., Jr., 4,662,756, Cl. 356-429.000.
Duran, Michael J., Jr., 4,662,757, Cl. 356-429.000.
Dwyer, Robert A.; and Ott, Russell G., 4,641,261, Cl. 364-900.000.
Dwyer, Robert A., 4,656,055, Cl. 427-89.000.
Easter, Finis C., 4,641,229, Cl. 363-21.000.
Elabd, Hammam; and Kosonocky, Walter F., 4,638,345, Cl. 357-24.000.
Elabd, Hammam; and Kosonocky, Walter F., 4,658,278, Cl. 357-24.000.
Elabd, Hammam, 4,659,226, Cl. 356-401.000.
Elabd, Hammam; and Kosonocky, Walter F., 4,663,656, Cl. 358-75.000.
Elabd, Hammam, 4,688,066, Cl. 357-24.000.
Enstrom, Ronald E., 4,703,718, Cl. 118-715.000.
Erhardt, Harry G., 4,679,090, Cl. 358-213.260.
Erhardt, Harry G., 4,686,574, Cl. 358-213.260.
Eron, Murat, 4,687,730, Cl. 430-324.000.
Ersoz, Nathaniel H.; and Hettiger, James, 4,658,437, Cl. 455-180.000.
Evans, Steven K., 4,656,456, Cl. 338-128.000.
Faraone, Lorenzo, 4,683,640, Cl. 437-41.000.
Faulkner, Richard D.; and McHose, Robert E., 4,656,392, Cl. 313-533.000.
Fedele, Nicola J.; Acampora, Alfonse; Burt, Peter J.; and Hingorani, Rajesh, 4,663,660, Cl. 358-136.000.
Fedele, Nicola J.; and Acampora, Alfonse A., 4,706,260, Cl. 375-27.000.
Federle, Steven P., 4,644,230, Cl. 315-382.000.
Filliman, Paul D.; Harwood, Leopold A.; Keen, Ronald T.; and Parker, Robert P., 4,660,084, Cl. 358-171.000.
Filliman, Paul D., 4,679,131, Cl. 363-21.000.
Fisher, Albert W., 4,695,868, Cl. 357-68.000.
Fitts, Robert W., 4,682,021, Cl. 250-213.0VT.
Fitzgerald, William V.; Fernsler, Ronald E.; and Nortrup, Kevin E., 4,680,511, Cl. 315-411.000.
Flatley, Doris W.; and Hsu, Sheng T., 4,637,836, Cl. 148-1.500.
Flatley, Doris W.; and Ipri, Alfred C., 4,658,495, Cl. 29-571.000.
Fletcher, James D., 4,703,396, Cl. 361-419.000.
Fling, Russell T., 4,639,783, Cl. 358-166.000.
Fling, Russell T., 4,639,784, Cl. 358-167.000.
Fling, Russell T., 4,652,907, Cl. 358-36.000.
Fling, Russell T.; and Christopher, Todd J., 4,652,908, Cl. 358-37.000.
Fling, Russell T., 4,654,695, Cl. 358-11.000.
Fling, Russell T.; and Christopher, Todd J., 4,656,516, Cl. 358-183.000.
Fling, Russell T., 4,710,892, Cl. 364-729.000.
Fuldner, William V.; and Stoney, William E., 4,657,211, Cl. 244-161.000.
Fuldner, William V.; and Ganssle, Eugene R., 4,684,084, Cl. 244-168.000.
Gale, Michael T.; and Meier, Heinrich, 4,663,524, Cl. 250-237.00R.
Gale, Michael T.; Kleinknecht, Hans P.; and Knop, Karl H., 4,668,080, Cl. 355-51.000.
George, John B., 4,642,696, Cl. 358-243.000.
Gibson, John J., 4,704,726, Cl. 381-13.000.
Giordano, Raymond L., 4,654,545, Cl. 307-350.000.
Giordano, Raymond L., 4,680,483, Cl. 307-355.000.
Giordano, Raymond L., 4,684,878, Cl. 323-279.000.
Giordano, Raymond L., 4,695,744, Cl. 307-279.000.
Goldstein, Bernard, 4,663,753, Cl. 369-132.000.
Goodman, Alvin M.; Goodman, Lawrence A.; Russell, John F.; and Robinson, Paul H., 4,684,413, Cl. 437-17.000.
Goodwin, Paul G.; Silverman, Michael B.; and Beck, George A., 4,654,846, Cl. 371-8.000.
Gordon, Robert B., 4,714,981, Cl. 361-400.000.
Gounder, Raj N.; Shu, Chi-Fan; and Jacobs, Brian D., 4,635,071, Cl. 343-897.000.
Gounder, Raj N., 4,682,744, Cl. 244-158.00R.
Graham, William J., 4,689,632, Cl. 343-781.0PP.
Groeneweg, Willem H.; and Hemme, Juergen F., 4,634,940, Cl. 315-408.000.
Haferl, Peter E., 4,634,937, Cl. 315-371.000.
Haferl, Peter E., 4,634,938, Cl. 315-371.000.
Haferl, Peter E., 4,668,897, Cl. 315-371.000.
Haferl, Peter E.; Sutherland, Hugh F., II; Luz, David W.; McDonald, James A.; Waybright, George C.; and Willis, Donald H., 4,682,085, Cl. 315-371.000.
Haferl, Peter E., 4,687,972, Cl. 315-371.000.
Hartmeier, Werner N., 4,636,842, Cl. 358-31.000.
Harwood, Leopold A.; and Law, Kirk A., 4,634,984, Cl. 328-112.000.
Harwood, Leopold A.; and Patel, Chandrakant B., 4,651,196, Cl. 358-38.000.
Harwood, Leopold A.; Filliman, Paul D.; and Keen, Ronald T., 4,660,085, Cl. 358-171.000.
Harwood, Leopold A.; and Wargo, Robert A., 4,670,665, Cl. 307-234.000.
Harwood, Leopold A.; Wargo, Robert A.; and Patel, Chandrakant B., 4,686,561, Cl. 358-31.000.
Harwood, Robert E.; and Hawrylo, Frank Z., 4,693,649, Cl. 409-293.000.
Hayden, John H.; and Sheffler, Alvin W., 4,667,908, Cl. 244-161.000.
Hecht, Martin A., 4,644,301, Cl. 333-101.000.
Helvy, Fred A.; and McDonie, Arthur F., 4,680,504, Cl. 313-524.000.
Hernqvist, Karl G., 4,634,924, Cl. 313-414.000.
Hinn, Werner, 4,641,194, Cl. 358-242.000.
Hinn, Werner, 4,642,690, Cl. 358-169.000.
Hinn, Werner, 4,677,491, Cl. 358-242.000.
Hinn, Werner, 4,682,233, Cl. 358-173.000.
Hinn, Werner, 4,689,679, Cl. 358-168.000.
Hinn, Werner, 4,694,350, Cl. 358-242.000.
Hinn, Werner, 4,716,461, Cl. 358-165.000.
Hoffman, Dorothy M., 4,686,112, Cl. 427-42.000.
Hoffman, Dorothy M.; Tams, Frederick J., III; and McGinn, Joseph T., 4,687,537, Cl. 156-612.000.
Hoover, Alan A., 4,642,532, Cl. 315-386.000.
Hoover, Alan A., 4,692,852, Cl. 363-21.000.
Hsu, Sheng T., 4,660,276, Cl. 29-571.000.
Hsu, Sheng T.; Flatley, Doris W.; and Johansson, Ronald J., 4,662,064, Cl. 29-591.000.
Hsu, Sheng T., 4,675,984, Cl. 29-578.000.
Hsu, Sheng T., 4,692,992, Cl. 437-57.000.
Hsu, Sheng T.; and Flatley, Doris W., 4,716,451, Cl. 357-42.000.
Hubert, Carl H.; Miller, Paul A.; Furia, Thomas J.; Muhlfelder, Ludwig; Schmidt, George E., Jr.; and Swale, James F., 4,657,210, Cl. 244-158.00R.
Hurst, Robert N., 4,639,773, Cl. 358-105.000.
Hurst, Robert N., 4,656,520, Cl. 358-213.000.
Hurst, Robert N., 4,707,728, Cl. 358-12.000.
Hurst, Robert N., Jr.; and Walter, James M., 4,654,714, Cl. 358-213.000.
Hwang, Mau-Choung P., 4,704,542, Cl. 307-66.000.
Jastrzebski, Lubomir L.; and Lagowski, Jacek, 4,642,565, Cl. 324-158.00R.
Jastrzebski, Lubomir L., 4,654,681, Cl. 357-24.000.
Jastrzebski, Lubomir L., 4,685,199, Cl. 437-54.000.
Jastrzebski, Lubomir L., 4,704,186, Cl. 156-612.000.
Jebens, Robert W.; and Samuels, Gerard, 4,688,328, Cl. 29-839.000.
Jennings, James R., Jr., 4,686,430, Cl. 315-371.000.
Johnston, Ross W., 4,686,597, Cl. 360-130.230.
Jones, Theodore L., 4,640,725, Cl. 156-85.000.
Jones, Theodore L., 4,699,462, Cl. 350-96.230.
Kaganowicz, Grzegorz; Ipri, Alfred C.; and Crandall, Richard S., 4,692,344, Cl. 427-39.000.
Kaganowicz, Grzegorz; Enstrom, Ronald E.; and Robinson, John W., 4,705,760, Cl. 437-234.000.
Kalokitis, David, 4,641,107, Cl. 330-286.000.
Kane, James, 4,663,188, Cl. 427-74.000.
Keeler, Brian G.; and Whitley, George J., 4,691,419, Cl. 29-39.000.
Kleinknecht, Hans P., 4,708,436, Cl. 350-162.170.
Knop, Karl H., 4,661,983, Cl. 382-1.000.
Kokkas, Achilles G., 4,672,314, Cl. 324-158.00R.
Kosonocky, Walter F., 4,646,119, Cl. 357-24.000.
Kosonocky, Walter F.; Battson, Donald F.; and Levine, Peter A., 4,656,518, Cl. 358-213.000.
Kosonocky, Walter F.; and Elabd, Hammam, 4,665,420, Cl. 357-24.000.
Kosonocky, Walter F., 4,667,213, Cl. 357-24.000.
Kramer, William M., 4,689,873, Cl. 437-2.000.
Krufka, Frank S., 4,665,429, Cl. 358-107.000.
Krufka, Frank S., 4,684,982, Cl. 358-107.000.
Krufka, Frank S., 4,692,605, Cl. 250-201.000.

Kujas, Erich F., 4,657,827, Cl. 429-12.000.
Kujas, Erich F., 4,685,608, Cl. 228-227.060.
Kujas, Erich F., 4,686,322, Cl. 136-245.000.
Lagoni, William A.; Tamer, Gregory G.; Muterspaugh, Max W.; and Rindal, Abraham E., 4,660,088, Cl. 358-198.000.
Law, Kirk A.; and Harwood, Leopold A., 4,694,331, Cl. 358-31.000.
Lechner, Bernard J., 4,672,424, Cl. 358-11.000.
Lechner, Bernard J.; and Powers, Kerns H., 4,709,256, Cl. 358-11.000.
Lee, Mu S., 4,656,573, Cl. 363-49.000.
Levine, Peter A., 4,641,963, Cl. 356-124.500.
Levine, Peter A., 4,644,287, Cl. 329-50.000.
Levine, Peter A., 4,646,142, Cl. 358-50.000.
Levine, Peter A., 4,661,788, Cl. 333-165.000.
Levine, Peter A., 4,670,787, Cl. 358-161.000.
Levine, Peter A., 4,677,490, Cl. 358-213.260.
Levine, Peter A.; Cobb, Arthur L., Jr.; Johnson, Cydney A.; and Peterson, Gary R., 4,695,878, Cl. 358-44.000.
Levine, Peter A., 4,703,442, Cl. 364-521.000.
Lewis, Henry G., Jr., 4,651,212, Cl. 358-167.000.
Lewis, Henry G., Jr., 4,658,285, Cl. 358-36.000.
Lewis, Henry G., Jr., 4,677,482, Cl. 358-140.000.
Lewis, Henry G., Jr.; and Ng, Sheau-Bao, 4,686,570, Cl. 358-188.000.
Lewis, Henry G., Jr.; and Ng, Sheau-Bao, 4,698,680, Cl. 358-166.000.
Lightstone, Alexander W., 4,712,862, Cl. 350-96.210.
Lock, Brian E.; and Wojnar, Jeffrey S., 4,693,286, Cl. 141-61.000.
Longeway, Paul A., 4,699,675, Cl. 437-81.000.
Looney, Gary W.; and Robinson, Paul H., 4,661,199, Cl. 156-612.000.
Luz, David W., 4,647,823, Cl. 315-411.000.
Maa, Jer-shen; and Huang, Sheng M., 4,648,939, Cl. 156-643.000.
Magee, Charles W.; and Hewitt, Lori R., 4,691,109, Cl. 250-426.000.
Magee, Charles W.; and Honig, Richard E., 4,697,085, Cl. 250-426.000.
Maile, Donald W.; and Kell, Furman D., 4,647,788, Cl. 307-117.000.
Maile, Donald W., 4,650,986, Cl. 250-214.0SW.
Maile, Donald W., 4,663,521, Cl. 250-221.000.
Marchegiano, Joseph E.; and Baran, Anthony S., 4,641,256, Cl. 364-525.000.
Masterton, Walter D.; and Good, Andrew, 4,665,339, Cl. 313-403.000.
Masterton, Walter D., 4,691,138, Cl. 313-403.000.
Mastroianni, Anthony R., 4,641,130, Cl. 340-347.0AD.
Mawhinney, Daniel D., 4,638,808, Cl. 128-653.000.
Mawhinney, Daniel D., 4,646,090, Cl. 342-44.000.
Mawhinney, Daniel D., 4,647,931, Cl. 342-44.000.
Mawhinney, Daniel D., 4,656,481, Cl. 342-171.000.
McCandless, Harry E., 4,637,804, Cl. 445-36.000.
McClelland, Sandra K.; Conrad, Neal D.; and Desai, Nitin V., 4,695,490, Cl. 428-1.000.
McGlashan, Kenneth W., 4,654,615, Cl. 335-211.000.
McGowan, Michael J., 4,658,157, Cl. 307-355.000.
McNeely, David L.; and Fling, Russell T., 4,636,840, Cl. 358-31.000.
McNeely, David L., 4,692,889, Cl. 364-730.000.
McSparran, Joseph F.; Blackman, William; Weaver, Harry Z.; and O'Neill, Jere W., 4,658,334, Cl. 361-415.000.
Mengel, William H., 4,651,342, Cl. 455-151.000.
Mertens, Lawrence E., 4,635,060, Cl. 342-194.000.
Michaelis, Theodore D., 4,639,883, Cl. 364-557.000.
Michaelis, Theodore D., 4,694,228, Cl. 318-341.000.
Miller, Louis D., 4,668,891, Cl. 313-390.000.
Miller, Louis D.; and Kaiser, Donald B., 4,692,658, Cl. 313-365.000.
Miyatani, Kazuo; and Sato, Isao, 4,678,292, Cl. 350-609.000.
Moles, Warren H.; and Dischert, Robert A., 4,636,841, Cl. 358-31.000.
Montini, Charles, Jr., 4,641,365, Cl. 455-78.000.
Moorman, Michael C.; and Monahan, John F., 4,689,808, Cl. 377-60.000.
Morrell, Albert M.; Masterton, Walter D.; and Bauder, Richard C., 4,634,247, Cl. 354-1.000.
Morrell, Albert M., 4,694,216, Cl. 313-402.000.
Moscony, John J.; Michielutti, Thomas J.; and Wetzel, Charles M., 4,656,107, Cl. 430-5.000.
Moscony, John J.; Michielutti, Thomas J.; and Wetzel, Charles M., 4,664,996, Cl. 430-23.000.
Muenkel, Raymond L.; and Keller, Raymond E., 4,670,686, Cl. 313-402.000.
Musselman, Elvin M., 4,671,778, Cl. 445-73.000.
Muterspaugh, Max W., 4,646,360, Cl. 455-195.000.
Muterspaugh, Max W., 4,661,851, Cl. 358-144.000.
Muterspaugh, Max W., 4,703,286, Cl. 331-117.0FE.
Nelson, John M. S.; and Brackelmanns, Norbert W., 4,639,762, Cl. 357-23.800.
Nelson, Jordan R.; and Wissing, William K., 4,682,075, Cl. 313-466.000.
Nelson, Leonard; and Travia, Frank N., Jr., 4,655,164, Cl. 118-503.000.
Nelson, Leonard; and Barresi, Anthony J., 4,708,281, Cl. 228-180.100.
Nero, Leroy W., 4,654,775, Cl. 363-68.000.
Ng, Sheau-Bao; and Lewis, Henry G., Jr., 4,703,357, Cl. 358-166.000.
Nicholson, Warren H.; and Sepp, Walter E., 4,635,099, Cl. 358-17.000.
Nicholson, Warren H., 4,665,437, Cl. 358-148.000.
Nosker, Richard W., 4,660,936, Cl. 350-339.00D.
Nosker, Richard W., 4,704,004, Cl. 350-345.000.
Nossen, Edward J., 4,635,279, Cl. 375-78.000.
Nossen, Edward J., 4,652,838, Cl. 380-6.000.
Nossen, Edward J., 4,669,091, Cl. 375-14.000.
Nossen, Edward J., 4,704,574, Cl. 324-83.00D.
Nossen, Edward J., 4,710,944, Cl. 375-40.000.
Noto, Richard; and Smith, David C., 4,686,629, Cl. 364-491.000.
Novajovsky, William A., 4,663,565, Cl. 315-39.510.
Nyul, Paul; and Hedel, Rudolph H., 4,642,513, Cl. 313-110.000.
Ogden, Joan M., 4,694,407, Cl. 364-518.000.
Olmstead, John A., 4,695,922, Cl. 361-329.000.
Olson, Charles L., 4,651,210, Cl. 358-164.000.
Opresko, Stephen T., 4,649,317, Cl. 313-414.000.
Osaka, Susumu; and Sagawa, Midori, 4,664,169, Cl. 160-107.000.
Ott, Russell G., 4,639,859, Cl. 364-200.000.
Ott, Russell G., 4,689,575, Cl. 328-63.000.
Ott, Russell G., 4,692,859, Cl. 364-200.000.
Pankove, Jacques I.; and Wu, Chung P., 4,684,964, Cl. 357-17.000.
Parker, Robert P., 4,716,464, Cl. 358-197.000.
Patel, Chandrakant B., 4,663,653, Cl. 358-11.000.
Patterson, David R., 4,709,416, Cl. 455-609.000.
Perlman, Stuart S.; Eisenhandler, Sanford; Lyons, Paul W.; and Shumila, Michael J., 4,682,230, Cl. 358-167.000.
Petersen, Jacob E.; and Balzer, Daniel L., 4,646,994, Cl. 244-158.00R.
Petheram, John C., 4,642,809, Cl. 372-66.000.
Piasecinski, Joseph J.; and Axelrod, Randolph H., 4,656,522, Cl. 358-247.000.
Piasecki, Douglas S., 4,668,881, Cl. 307-530.000.
Pirone, Vincent A., 4,638,139, Cl. 219-69.00W.
Pitsch, Robert A.; Beyers, Billy W., Jr.; Moore, Larry G.; and Tults, Juri, 4,677,484, Cl. 358-155.000.
Plus, Dora, 4,656,373, Cl. 307-475.000.
Polansky, Carl, 4,659,006, Cl. 228-123.000.
Pollachek, Robert G., 4,648,074, Cl. 365-184.000.
Poole, Joseph J., 4,701,716, Cl. 330-43.000.
Powers, Kerns H., 4,685,002, Cl. 360-9.100.
Praba, Krishna, 4,635,006, Cl. 333-111.000.
Praba, Krishna; and Profera, Charles E., Jr., 4,679,011, Cl. 333-111.000.
Presser, Adolph; and Perlow, Stewart M., 4,636,754, Cl. 333-116.000.
Pritchard, Dalton H., 4,641,186, Cl. 358-105.000.
Profera, Charles E., Jr., 4,691,205, Cl. 342-365.000.
Pruitt, Duard L., 4,688,165, Cl. 363-132.000.
Pruitt, Duard L., 4,691,270, Cl. 363-56.000.
Quinn, Robert L.; Heyman, Philip M.; and Goldman, Abraham, 4,670,295, Cl. 427-54.100.
Rabii, Khosro M.; and Fling, Russell T., 4,663,668, Cl. 358-171.000.
Ragland, Frank R., Jr., 4,645,968, Cl. 313-407.000.
Ramspacher, Robert J.; Bachman, William J.; and DiMeo, Franklin R., 4,662,531, Cl. 220-4.00B.
Ramspacher, Robert J.; and Butcher, Charles, 4,672,732, Cl. 29-429.000.
Rangachar, Hemmige V., 4,649,061, Cl. 427-78.000.
Raush, Russell G.; and Alleman, Raymond A., 4,709,716, Cl. 134-122.00R.
Raychaudhuri, Dipankar, 4,641,304, Cl. 370-95.000.
Raychaudhuri, Dipankar, 4,688,213, Cl. 370-93.000.
Reese, Robert M.; and Landry, Norman R., 4,678,863, Cl. 174-35.0GC.
Reichert, Walter F., 4,651,179, Cl. 357-22.000.
Reno, Charles W., 4,712,207, Cl. 369-121.000.
Rindal, Abraham E., 4,637,044, Cl. 381-4.000.
Ritzman, Ira G.; and Wright, Joseph W., 4,695,775, Cl. 315-410.000.
Rodda, William E., 4,704,630, Cl. 358-160.000.
Rodriguez-Cavazos, Enrique, 4,642,530, Cl. 315-371.000.
Rodriguez-Cavazos, Enrique, 4,651,214, Cl. 358-190.000.
Rodriguez-Cavazos, Enrique, 4,703,233, Cl. 315-398.000.
Roeder, Barbara J.; Harwood, Leopold A.; and Weckenbrock, Hermann J., 4,661,853, Cl. 358-167.000.
Roeder, Barbara J.; Harwood, Leopold A.; and Weckenbrock, Hermann J., 4,684,989, Cl. 358-167.000.
Ronan, Harold R., Jr.; and Wheatley, Carl F., Jr., 4,677,324, Cl. 307-571.000.
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Rosenfeld, Jerome P., 4,647,193, Cl. 356-4.000.
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Rothweiler, Joseph H., 4,691,292, Cl. 364-724.000.
Rumreich, Mark F., 4,660,087, Cl. 358-197.000.
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Sandercock, John R., 4,643,385, Cl. 248-550.000.
Sauer, Donald J., 4,639,898, Cl. 365-202.000.
Savoye, Eugene D., 4,656,519, Cl. 358-213.000.

Savoye, Eugene D.; Kosonocky, Walter F.; and Wallace, Lloyd F., 4,658,497, Cl. 29-572.000.
Savoye, Eugene D., 4,661,854, Cl. 358-213.000.
Savoye, Eugene D., 4,716,447, Cl. 357-24.000.
Schelhorn, Robert L.; and Matier, Colleen A., 4,647,900, Cl. 338-314.000.
Schiff, Leonard N., 4,636,586, Cl. 379-390.000.
Schiff, Leonard N., 4,639,932, Cl. 375-1.000.
Schlesier, Kenneth M., 4,701,241, Cl. 156-643.000.
Sechi, Franco N.; and Kalokitis, David, 4,697,159, Cl. 333-24.000.
Sendelweck, Gene K., 4,709,267, Cl. 358-148.000.
Sharma, Arvind K., 4,677,393, Cl. 330-286.000.
Sides, Richard J., Sr.; Crawford, Christopher L.; Nunweiler, Raymond J., Jr.; Muth, David L.; and Hope, George P., 4,643,493, Cl. 312-7.200.
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Siryj, Bohdan W., 4,704,712, Cl. 369-249.000.
Slattery, Francis R., 4,712,126, Cl. 357-71.000.
Sloane, Maurice W.; and Sikina, Thomas V., 4,684,970, Cl. 357-35.000.
Smeltzer, Ronald K.; and Morris, Wesley H., 4,662,059, Cl. 29-571.000.
Smith, David C.; and Noto, Richard, 4,636,965, Cl. 364-491.000.
Smith, Edgar M., 4,713,598, Cl. 323-245.000.
Southgate, Peter D., 4,675,729, Cl. 358-166.000.
Sprague, David L., 4,694,197, Cl. 307-269.000.
Steckler, Steven A.; and Balaban, Alvin R., 4,635,103, Cl. 358-27.000.
Steckler, Steven A.; and Balaben, Alvin R., 4,636,836, Cl. 358-19.000.
Sterzer, Fred, 4,640,280, Cl. 128-804.000.
Stewart, Wilber C.; and Vieland, Leon J., 4,672,262, Cl. 313-422.700.
Stoughton, John W., 4,654,717, Cl. 358-243.000.
Strolle, Christopher H., 4,656,467, Cl. 340-727.000.
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Swartz, George A.; and Benyon, Carl W., Jr., 4,634,473, Cl. 148-1.500.
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Tamer, Gregory G.; and Hollinden, David E., 4,639,786, Cl. 358-197.000.
Tamutus, Donald J., 4,650,435, Cl. 445-47.000.
Testin, William J., 4,636,867, Cl. 358-245.000.
Testin, William J.; and French, Michael P., 4,641,064, Cl. 315-411.000.
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Thompson, Charles R., 4,661,862, Cl. 358-335.000.
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van der Wal, Gooitzen S., 4,703,514, Cl. 382-41.000.
VanSant, Glen J., 4,701,895, Cl. 369-13.000.
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Wargo, Robert A., 4,636,735, Cl. 328-58.000.
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Warren, Henry R., 4,624,132, Cl. 355-330.000.
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Willis, Donald H., 4,636,861, Cl. 358-158.000.
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Willis, Donald H., 4,645,990, Cl. 315-411.000.
Willis, Donald H., 4,646,138, Cl. 358-36.000.
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Willis, Donald H.; Fling, Russell T.; and Christopher, Todd J., 4,667,240, Cl. 358-167.000.
Willis, Donald H.; and Rodriguez-Cavazos, Enrique, 4,672,662, Cl. 377-20.000.
Willis, Donald H.; Fling, Russell T.; and Christopher, Todd J., 4,680,632, Cl. 358-166.000.
Willis, Donald H., 4,701,785, Cl. 358-31.000.
Willis, Donald H., 4,703,341, Cl. 358-31.000.
Wilson, Robert M., 4,658,258, Cl. 343-786.000.
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Wine, Charles M., 4,685,134, Cl. 381-17.000.
Wine, Charles M., 4,691,310, Cl. 369-50.000.
Wittke, James P., 4,659,170, Cl. 350-1.100.
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Woestman, John W., 4,709,633, Cl. 101-163.000.
Wu, You-Sun, 4,651,115, Cl. 333-26.000.
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Rea, William V., to Ampex Corporation. Metal-polishing composition and process. 4,645,561, 2-24-87, Cl. 156-636.000.
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Gaffney, Bernard J., 4,675,194, Cl. 426-39.000.
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Wood, Clayton D.; and Read, Arthur E., Jr., 4,656,314, Cl. 585-260.000.
Read, Donald L. Releasable lock mechanism. 4,707,003, 11-17-87, Cl. 292-45.000.
Read, Michael E.: *See*—
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Read, Norman W., to Dresser Industries, Inc. Well treating apparatus. 4,649,995, 3-17-87, Cl. 166-115.000.
Read, Norman W., to Dresser Industries, Inc. Flow control valve for use in oil and gas wells and the like. 4,700,782, 10-20-87, Cl. 166-330.000.
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Reader, Michael W.; and Charles, John M., to Ford Motor Company. Rupturable lock assembly. 4,669,287, 6-2-87, Cl. 70-360.000.
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Readman, John; and Bland, Timothy J., to Sundstrand Corporation. Oil scavenge system. 4,683,389, 7-28-87, Cl. 310-62.000.
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Hayden, Howard L.; Vaghani, Vallabh V.; and Readman, John, 4,690,470, Cl. 439-13.000.
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Tyihak, Erno; Mincsovics, Emil; Zoltan, Sandor; Kemeny, Gabor; Mathuny, Aniko; Szekely, Tibor; Nemeth, Sandor; Antal, Zsuzsanna; and Fater, Zsuzsanna, 4,658,000, Cl. 526-217.000.
Reardick, Thomas C., to United States of America, Army. Digital high speed programmable convolver. 4,679,164, 7-7-87, Cl. 364-728.000.
Reasume, Robert N. Stock assembly kit and rifle embodying the same. 4,683,676, 5-12-87, Cl. 42-71.010.
Reaux, James R. Pressure set and retrievable vented anchor-seal for pipeline service. 4,658,860, 4-21-87, Cl. 138-89.000.
Reavely, Richard T.; Ogle, Peter C.; and Kromrey, Robert V., to United Technologies Corporation. Method of fabricating tubular composite structures. 4,704,240, 11-3-87, Cl. 264-102.000.
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Reba, Imants; and Pollock, Rodney E., to Crown Zellerbach Corporation. Fabric conditioning and cleaning system. 4,643,775, 2-17-87, Cl. 134-15.000.
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Sugden, Keith, 4,689,219, Cl. 424-80.000.
Recktenwald, Diether J.; Kerndt, Rickie S.; Loken, Michael R.; and Chen, Chia H., to Becton, Dickinson and Company. Method and materials for calibrating flow cytometers and other analysis instruments. 4,704,891, 11-10-87, Cl. 73-1.00R.
Reckziegel, Erich; and Holzapfel, Heinz, to Henkel Kommanditgesellschaft auf Aktien. Process for nonslip finishing of smooth surfaces of objects and objects produced thereby. 4,692,370, 9-8-87, Cl. 428-198.000.
Recognition Equipment Incorporated: *See—*
Habitzreiter, Richard K.; Pinney, Robert V., Jr.; and Thomas, Tony C., 4,637,059, Cl. 382-54.000.
Recon/Optical, Inc.: *See—*
Hughes, John G.; Hodek, Thomas R.; and Hamlin, Wayne, 4,664,494, Cl. 354-234.100.
Recordati S. A. Chemical and Pharmaceutical Company: *See—*
Nardi, Dante; Leonardi, Amedeo; Motta, Gianni; and Cazzulani, Pietro, 4,675,319, Cl. 514-234.000.
Recordati S.A.: *See—*
Nardi, Dante; Leonardi, Amedeo; and Bianchi, Giorgio, 4,634,712, Cl. 514-356.000.
Recordati S.A., Chemical and Pharmaceutical Company: *See—*
Nardi, Dante; Leonardi, Amedeo; Graziani, Gabriele; and Bianchi, Giorgio, 4,705,797, Cl. 514-356.000.
Recoton Corporation: *See—*
Yeung, Choi K., 4,654,917, Cl. 15-97.00R.
Yeung, Choi K., 4,716,485, Cl. 360-128.000.
Rector, Robert E.; Taylor, Larry T.; and Grassi, Richard J., to Gulton Industries, Inc. Variable font display. 4,661,808, 4-28-87, Cl. 340-735.000.
Reczek, James A.: *See—*
Thunberg, Allen L.; and Reczek, James A., 4,701,420, Cl. 436-94.000.
Red Arrow International Inc.: *See—*
Hawkins, Wallace H.; and Gosnell, Calvin B., 4,700,966, Cl. 280-432.000.
Red Eye Arms, Inc.: *See—*
Byron, David E., 4,703,826, Cl. 89-188.000.
Red Man Pipe and Supply Company: *See—*
Evans, Richard B., 4,712,585, Cl. 138-44.000.
Red Wing Shoe Company, Inc.: *See—*
Eckstrom, Delano, 4,651,443, Cl. 36-17.00R.
Redco N.V.: *See—*
Anton, Octavian; Crichton, Robert; and Lenders, Jean-Pierre, 4,683,203, Cl. 435-94.000.
Anton, Octavian; Jacobs, Pierre; Poncelet, Georges; and Jacques, Philippe, 4,689,315, Cl. 502-241.000.
Redd, George L.: *See—*
Maple, Ralph E.; Redd, George L.; and Meurer, Donald W., 4,666,689, Cl. 423-183.000.
Redden, Robert F.: *See—*
Bult, Roelof P.; Bolleng, Alan B. I.; and Redden, Robert F., 4,690,725, Cl. 156-617.00R.
Redder, Manfred: *See—*
Grundken, Dieter; and Redder, Manfred, 4,646,905, Cl. 198-735.000.
Grundken, Dieter; Redder, Manfred; Roling, Franz; Sauer, Michael; and Schoop, Gunther-Dietmar, 4,658,952, Cl. 198-735.000.
Grundken, Dieter; Redder, Manfred; and Schewinski, Hartmut, 4,705,160, Cl. 198-735.000.
Schoop, Gunther-Dietmar; Roling, Franz; Grundken, Dieter; Redder, Manfred; Schewinski, Hartmut, and Temme, Helmut, 4,667,811, Cl. 198-735.000.
Reddi, A. H.: *See—*
Nathanson, Mark A.; Reddi, A. H.; and Sampath, T. K., 4,681,763, Cl. 424-95.000.
Reddig, Bernd. Floor covering cutter. 4,662,070, 5-5-87, Cl. 30-294.000.
Redding, Dwight D., to American Can Company. Multi-layer sheet structure, method of making same and containers made therefrom. 4,659,408, 4-21-87, Cl. 156-244.170.
Redding, James R.: *See—*
Conder, Philip C.; Jenkins, Richard M.; and Redding, James R., 4,662,958, Cl. 156-89.000.
Redding, Jerry W.; Roberts, Donald L.; and Woods, Donna K., to R. J. Reynolds Tobacco Company. Smoking product. 4,643,205, 2-17-87, Cl. 131-275.000.
Redding, Robert: *See—*
Chorley, William; Redding, Robert; and Fries, Christopher, 4,649,533, Cl. 370-58.000.
Redding, Thomas P.; and Barker, Laurence S., to Xerox Corporation. Sheet feeder-stacker. 4,640,602, 2-3-87, Cl. 355-3.0SH.
Reddy, Chitranjan, to Texas Instruments Incorporated. High speed CMOS clock generator. 4,636,657, 1-13-87, Cl. 307-269.000.
Reddy, Chitranjan: *See—*
Norwood, Roger D.; and Reddy, Chitranjan, 4,636,987, Cl. 365-208.000.
Norwood, Roger D.; and Reddy, Chitranjan, 4,656,613, Cl. 365-208.000.
Reddy, Chitranjan N.: *See—*
Tachibana, Tadashi; Reddy, Chitranjan N.; and Hong, Ngai H., 4,653,030, Cl. 365-222.000.
Reddy, Gauknapalli C.: *See—*
Aretz, Werner; Berscheid, Hans G.; Huber, Gerhard; Fehlhaber, Hans-Wolfram; Kraemer, Hans P.; Sedlacek, Hans-Harald; Guguli, Bimal N.; Sood, Ratan S.; Gandhi, Julia; and Reddy, Gauknapalli C., 4,713,371, Cl. 514-34.000.
Reddy, K. Virupaksha: *See—*
Zavelovich, Joshua; and Reddy, K. Virupaksha, 4,643,812, Cl. 204-157.610.
Reddy, Srinivasa S. N., to International Business Machines Corporation. Method of bonding to ceramic and glass. 4,659,406, 4-21-87, Cl. 156-89.000.
Redelec, Jean E. A.: *See—*
Louradour, Guy; Gironnet, Bernard; and Redelec, Jean E. A., 4,663,981, Cl. 74-440.000.
Redenbaugh, M. Keith; and Reyes, Zoila, to Plant Genetics, Inc. Artificial seed coat for botanic seed analogs. 4,715,143, 12-29-87, Cl. 47-57.600.
Reder, Lawrence H.; and Junghans, Robert W., to Junghans, Robert W. Strain gauge scale for weighing fish. 4,660,666, 4-28-87, Cl. 177-148.000.
Redfarn, Cyril A., to Dixon International Limited. Putty or mastic. 4,645,782, 2-24-87, Cl. 523-179.000.
Redfield, William H.: *See—*
Lewandowski, Raymond F.; Doros, Jacek P.; and Redfield, William H., 4,673,778, Cl. 200-57.00B.
Redford, Peter M.; and Redford, Rita A., to Trillian Computer Corporation. Visual interface between user and computer system. 4,692,858, 9-8-87, Cl. 364-200.000.
Redford, Rita A.: *See—*
Redford, Peter M.; and Redford, Rita A., 4,692,858, Cl. 364-200.000.
Redi-Rowell, Inc.: *See—*
Powell, David R.; and Patel, Vithal K., 4,690,824, Cl. 424-468.000.
Redick, Hugh E. Graphite fiber thermocouple device and method. 4,650,920, 3-17-87, Cl. 136-239.000.
Redick, Robert P.: *See—*
Tretter, Steven A.; Redick, Robert P.; Stuart, Richard L.; Treyner, Paul E.; and Gordon-Smith, David, 4,646,305, Cl. 371-43.000.
Redicon Corporation: *See—*
Bulso, Joseph D., Jr.; and McClung, James A., 4,696,177, Cl. 72-379.000.
Bulso, Joseph D., Jr.; and McClung, James A., 4,713,958, Cl. 72-348.000.
Bulso, Joseph D., Jr.; and McClung, James A., 4,715,208, Cl. 72-348.000.
Rediffusion Simulation Limited: *See—*
Bashford, Dennis J.; and Blackham, Geoffrey H., 4,679,080, Cl. 358-150.000.
Roberts, Malcolm E. C., 4,667,199, Cl. 342-169.000.
Redikultsev, Jury V.; Litvinenko, Leonid A.; Chermenskaya, Tassia S.; Petrikevich, Svetlana B.; and Maximov, Mikhail G., to Institut Biokhimii I Fiziologii Mikroorganizomov. Fermenter. 4,656,138, 4-7-87, Cl. 435-314.000.
Redikultsev, Jury V.; Litvinenko, Leonid A.; Golovlev, Evgeny L.; Golovleva, Ljudmila A.; Chermensky, Dmitry N.; and Skryabin, Georgy K. Apparatus for bioconversion of vegetal raw material. 4,686,189, 8-11-87, Cl. 435-289.000.
Redikultsev, Jury V.; Zanin, Jury G.; Shkidchenko, Alexandr N.; Gorbunov, Oleg P.; Maximov, Mikhail G.; and Chermenskaya, Tassia S., to Institut Biokhimii I Fiziologii Mikroorganizmov Akademii Nauk SSSR. Device for sterile sampling from a fermenter. 4,689,306, 8-25-87, Cl. 435-292.000.
Redin, Dan B., to Telefonaktiebolaget LM Ericsson. Arrangement to generate different figures in a computer controlled presentation system on a screen. 4,677,575, 6-30-87, Cl. 364-521.000.
Redington, Dana J.: *See—*
Turner, John M.; and Redington, Dana J., 4,704,730, Cl. 381-36.000.
Redington, Gordon F., to SnyderGeneral Corporation. Variable speed drive. 4,648,854, 3-10-87, Cl. 474-114.000.
Redington, Rowland W.: *See—*
Bottomley, Paul A.; Edelstein, William A.; Hart, Howard R., Jr.; Schenck, John F.; Redington, Rowland W.; and Leue, William M., 4,689,563, Cl. 324-309.000.
Hodsoll, Raymond J., Jr.; Karr, Steven G.; Leue, William M.; Smith, Lowell S.; Redington, Rowland W.; Bottomley, Paul A.; and Edelstein, William A., 4,667,159, Cl. 324-309.000.
Redken Laboratories, Inc.: *See—*
Mathews, Roger A.; and Cannell, David W., 4,635,654, Cl. 132-7.000.
Redko, Grigory V.: *See—*
Arutjunian, Norair S.; Kornena, Elena P.; Kazarian, Robert V.; Ponomareva, Natalya A.; Redko, Grigory V.; Sakhno, Lidia T.; and Zhidkova, Irina S., 4,713,155, Cl. 204-155.000.

Redl, George: *See*—
Warner, Paul L., Jr.; Kornegay, Grey B.; and Redl, George, 4,666,896, Cl. 514-114.000.

Redland Roof Tiles Limited: *See*—
Baker, Robin M.; Sargeant, Paul R.; Papper, Ernest G.; Oberoi, Bhusan K.; Smith, Frank A.; and Rae, Malcolm C., 4,695,418, Cl. 264-151.000.
Oberoi, Bhushan K.; and Dancy, Michael J., 4,661,054, Cl. 415-254.000.
Oberoi, Bhushan K.; and Conroy, Terence J., 4,668,151, Cl. 414-331.000.
Oberoi, Bhushan K., 4,712,361, Cl. 53-540.000.

Redlich, George H.; and Novak, Ronald W., to Rohm and Haas Company. Microsuspension process for preparing solvent core sequential polymer dispersion. 4,677,003, 6-30-87, Cl. 427-373.000.

Redlich, Robert W., to Sunpower, Inc. Adaptive regulation system for a linear alternator driven by a free-piston stirling engine. 4,642,547, 2-10-87, Cl. 322-3.000.

Redlich, Robert W. Linear position transducer and signal processor. 4,667,158, 5-19-87, Cl. 324-207.000.

Redlich, Robert W.: *See*—
Berchowitz, David M.; and Redlich, Robert W., 4,649,283, Cl. 290-1.00R.

Redman, Alan H. Mailer device. 4,676,526, 6-30-87, Cl. 281-5.000.

Redman, Gary M., to GTE Sprint Communications Corp. Adjustable platform mounteed horn antenna. 4,698,640, 10-6-87, Cl. 343-882.000.

Redman, Gary M.: *See*—
Evans, Wallace; and Redman, Gary M., 4,698,641, Cl. 343-882.000.

Redman, Michael J.; Wong, Ming K.; and Sugden, Peter R., to STC plc. Address code arrangements. 4,691,339, 9-1-87, Cl. 379-62.000.

Redman, Robert J., to Roman Engineering Company, Inc. Apparatus for straightening tubing. 4,663,955, 5-12-87, Cl. 72-129.000.

Redman, Robert J., to Tube Fab of Afton Corporation. Bar feeding apparatus. 4,708,039, 11-24-87, Cl. 82-2.500.

Redmann, Eckhard, to Kraftwerk Union Aktiengesellschaft. Sample-collecting device for gaseous or vaporous condensable radioactive substances, especially for collecting traces of tritium. 4,638,674, 1-27-87, Cl. 73-863.120.

Redmond, Donald R.; and Dieckman, John H., to Xebec. Disk drive formatting. 4,703,371, 10-27-87, Cl. 360-75.000.

Redmond, Holly F.: *See*—
Dill, David M.; and Redmond, Holly F., 4,698,757, Cl. 364-300.000.

Redmond, Kevin P., to Advanced Systems Research, Inc. Wide band quadrature hybrid. 4,673,898, 6-16-87, Cl. 333-109.000.

Redmond, Sanford. Method and apparatus for making compact packages for spreadable products. 4,700,532, 10-20-87, Cl. 53-452.000.

Redmore, Derek: *See*—
Bellos, Thomas J.; and Redmore, Derek, 4,671,815, Cl. 71-67.000.
Thompson, Neil E. S.; Redmore, Derek; Oude Alink, Bernardus A.; and Outlaw, Benjamin T., 4,684,507, Cl. 422-12.000.

Redner, Salomon. Stress and strain measuring apparatus and method. 4,668,086, 5-26-87, Cl. 356-33.000.

Redolfi, Michel. Underwater sound delivery system. 4,639,903, 1-27-87, Cl. 367-131.000.

Redpath, Anthony E.: *See*—
Guillet, James E.; and Redpath, Anthony E., 4,663,412, Cl. 526-284.000.

Redpath, James; Logan, Robert T.; McFadzen, David B.; and Roy, Robert G., to Akzo N.V. Benzothiophene derivatives. 4,665,206, 5-12-87, Cl. 549-51.000.

Redpath, James: *See*—
Logan, Robert T.; Redpath, James; and Roy, Robert G., 4,705,782, Cl. 514-150.000.

Redpath, Thomas W. T.; Selbie, Robert D.; Hutchison, James M. S.; Eastwood, Linda M.; Johnson, Glyn; and Mallard, John R., to National Research Development Corporation. Magnetic coils. 4,652,825, 3-24-87, Cl. 324-318.000.

Redpath, Thomas W. T.: *See*—
Eastwood, Linda M.; Hutchison, James M. S.; Johnson, Glyn; Redpath, Thomas W. T.; Selbie, Robert D.; and Mallard, John R., 4,651,095, Cl. 324-307.000.
Edelstein, William A.; Hutchison, James M. S.; Johnson, Glyn; Redpath, Thomas W. T.; and Mallard, John R., 4,706,025, Cl. 324-309.000.

Redshaw, Sally: *See*—
Attwood, Michael R.; Hassall, Cedric H.; Lambert, Robert W.; Lawton, Geoffrey; and Redshaw, Sally, 4,658,024, Cl. 540-500.000.
Hassall, Cedric H.; Lawton, Geoffrey; and Redshaw, Sally, 4,692,438, Cl. 514-183.000.

Redus, Clifford L.: *See*—
Chien, Sze-Foo; Redus, Clifford L.; and Sigwardt, Peter L., 4,681,466, Cl. 374-42.000.

Redus, Richard: *See*—
Wyatt, W. Gerald; and Redus, Richard, 4,644,967, Cl. 137-599.000.

Reduto S.A.: *See*—
Bajulaz, Roger, 4,699,023, Cl. 74-804.000.

Redwine, Donald J.; and Pinkham, Raymond, to Texas Instruments Incorporated. Video system having a dual-port memory with inhibited random access during transfer cycles. 4,689,741, 8-25-87, Cl. 364-200.000.

Redwine, Donald J.: *See*—
Heilveil, Andrew; VanAken, Jerry R.; Guttag, Karl M.; Redwine, Donald J.; Pinkham, Raymond; and Novak, Mark F., 4,639,890, Cl. 364-900.000.
Novak, Mark F.; Guttag, Karl M.; and Redwine, Donald J., 4,688,197, Cl. 365-230.000.

Redyref-Pressed & Welded, Inc.: *See*—
Rosa, Frank, 4,638,605, Cl. 52-28.000.

Reeb, Max E. Identification device in the form of a tag-like strip affixable to an article. 4,694,283, 9-15-87, Cl. 340-572.000.

Reeb, Roland; and Chauvel, Bernard, to Rhone Poulenc Specialities Chimiques. Crosslinkable polymers based on unsaturated esters of furoic acid and process for their preparation and application in the manufacture of coatings. 4,663,411, 5-5-87, Cl. 526-270.000.

Reeber, Nicholas J.; and Kerbel, Sheldon J., to Hazeltine Corporation. Scanner-previewer combination including a programmable sampling circuit for permitting an entire frame of an original to be stored in a fixed-capacity memory. 4,635,108, 1-6-87, Cl. 358-76.000.

Reece, Alan R., to British Petroleum Company p.l.c., The. Plough. 4,655,639, 4-7-87, Cl. 405-181.000.

Reece, Alan R.: *See*—
Grinsted, Timothy W.; and Reece, Alan R., 4,664,553, Cl. 405-180.000.

Reece, D. C.: *See*—
Morrison, Elbert F.; Bradley, Danny R.; and Reece, D. C., 4,635,435, Cl. 57-328.000.
Morrison, Elbert F.; Bradley, Danny R.; and Reece, D. C., 4,713,931, Cl. 57-328.000.

Reece, David S.: *See*—
Slosberg, David K.; Reece, David S.; and Claessen, Johannes A. H., 4,702,950, Cl. 428-95.000.

Reece, Marvin P.; and Boote, Peter J., to Rexnord Inc. Valve seat insert. 4,676,482, 6-30-87, Cl. 251-365.000.

Reece, Marvin P.; and Rosan, Jose, Jr., to Rexnord Inc. Expandable fastener assembly. 4,712,955, 12-15-87, Cl. 411-17.000.

Reece, Ricky L.; Byars, Leland S.; and Shannon, Larry S., Sr., to United Technologies Electro Systems, Inc. Electric door lock actuator. 4,674,781, 6-23-87, Cl. 292-336.300.

Reed, Alastair: *See*—
Stansfield, Peter W.; and Reed, Alastair, 4,668,980, Cl. 358-80.000.

Reed, Andrew M.: *See*—
Gilding, D. Keith; Reed, Andrew M.; Askill, Ian N.; and Briana, Stephen G., 4,704,130, Cl. 623-66.000.

Reed, Anne, administrator: *See*—
Reed, Lawrence A., III, deceased, 4,675,186, Cl. 424-114.000.

Reed, August D., Jr. Double ended single blade knife. 4,631,419, 3-24-87, Cl. 30-152.000.

Reed, Bradley O., to General Electric Company. Gear train for four range hydromechanical steering transmission. 4,682,515, 7-28-87, Cl. 74-687.000.

Reed, Charles C.; Cooley, Denton A.; Crane, Terry N.; Swanson, Edward A.; Oscarsson, Rolf A.; Liebmann, Vern L.; and Cox, Dan E. Bubble oxygenator. 4,637,917, 1-20-87, Cl. 422-46.000.

Reed, Charles C. Cardiotomy reservoir apparatus and method. 4,704,203, 11-3-87, Cl. 210-188.000.

Reed, Charlie C. Electrical connector. 4,707,043, 11-17-87, Cl. 439-142.000.

Reed, Claudia P.: *See*—
Korb, Harold W.; Reed, Claudia P.; and Shaw, Roger W., 4,666,532, Cl. 148-1.500.

Reed, Douglas G.: *See*—
Schmidt, Alfred W.; and Reed, Douglas G., 4,660,877, Cl. 294-88.000.

Reed, E. Smith, Jr.: *See*—
Ferguson, Robert W.; Anders, Derik K.; and Reed, E. Smith, Jr., 4,683,868, Cl. 126-193.000.

Reed, Edgar H. Additive for green molding sand. 4,636,262, 1-13-87, Cl. 106-38.300.

Reed, Elmer E., to Hughes Aircraft Company. Electrical interconnection assembly. 4,676,578, 6-30-87, Cl. 439-465.000.

Reed, Frank G. Inversion machine. 4,703,929, 11-3-87, Cl. 272-144.000.

Reed, Frederick E.: *See*—
Hooper, Clarence R., Jr.; and Reed, Frederick E., 4,688,558, Cl. 128-78.000.

Reed, Gary J., to Reed International, Incorporated. Metal lock system and method. 4,662,806, 5-5-87, Cl. 411-2.000.

Reed, Glenn A.: *See*—
Budrow, Jack C.; and Reed, Glenn A., 4,663,632, Cl. 343-714.000.

Reed, Gueary T., Jr., to Emerson Electric Co. Electrical plug and receptacle for lighting fixture power hook. 4,661,892, 4-28-87, Cl. 362-226.000.

Reed, Gueary T., Jr., to Emerson Electric Co. Twist lock inverted T-rail clip. 4,705,255, 11-10-87, Cl. 248-317.000.

Reed, Hugh B., to Federal Cartridge Corporation. 00 buckshot shot shell. 4,679,505, 7-14-87, Cl. 102-449.000.

Reed International, Incorporated: *See*—
Reed, Gary J., 4,662,806, Cl. 411-2.000.

Reed International plc: *See*—
Graham, Thomas; Perrins, Leslie A.; and Morris, Kevin, 4,691,838, Cl. 220-93.000.

Reed, James L., to Spectra Products Corporation. Method for extending the life of a cutting tool. 4,674,365, 6-23-87, Cl. 76-101.00R.

Reed, James R.: *See*—
Reed, Richard K.; Reed, James R.; and Sorg, James D., 4,660,951, Cl. 354-187.000.

Reed, Joel G.: *See*—
Landry, Richard E.; and Reed, Joel G., 4,674,568, Cl. 165-166.000.
Landry, Richard E.; and Reed, Joel G., 4,679,623, Cl. 165-166.000.

Reed, John A.: *See*—
Logwood, Dennis J.; Haq, Mohammed E. U.; Reed, John A.; and Karp, Joel A., 4,679,171, Cl. 365-154.000.
Ul Haq, Mohammed E.; Bagnall, Peter J.; and Reed, John A., 4,667,311, Cl. 365-182.000.
Reed, John C., Jr. Method of making a removable mask Kachina doll. 4,670,070, 6-2-87, Cl. 156-61.000.
Reed, John D., to Motorola, Inc. Battery charging, reset, and data transfer system. 4,700,375, 10-13-87, Cl. 379-61.000.
Reed, Joseph, to International Telephone and Telegraph Corporation. Baseband demodulator for FM and/or AM signals. 4,677,690, 6-30-87, Cl. 455-207.000.
Reed, Joseph C. Toothbrush having adjustable bristle-mounted tabs. 4,691,405, 9-3-87, Cl. 15-201.000.
Reed, Katherine E.: *See*—
Scholz, Matthew T.; Bartizal, Dennis C.; Reed, Katherine E.; Larson, Wayne K.; Ersfeld, Dean A.; Sandvig, Timothy C.; and Buckanin, Richard S., 4,667,661, Cl. 128-90.000.
Reed, Larry E.: *See*—
Porter, Randall A.; and Reed, Larry E., 4,666,583, Cl. 208-48.0AA.
Porter, Randall A.; and Reed, Larry E., 4,686,201, Cl. 502-154.000.
Porter, Randall A.; and Reed, Larry E., 4,687,567, Cl. 208-48.0AA.
Porter, Randall A.; and Reed, Larry E., 4,692,234, Cl. 208-48.0AA.
Reed, Larry T., to Axia Incorporated. Automatic ranging gun sight. 4,695,161, 9-22-87, Cl. 356-254.000.
Reed, Lawrence A., III, deceased (by Reed, Anne, administrator), to Pfizer Inc. 6-(1-acyl-1-hydroxymethyl)penicillanic acid derivatives. 4,675,186, 6-23-87, Cl. 424-114.000.
Reed, Lehman T. Top entry electrical transmission assembly for submersible pumping. 4,708,201, 11-24-87, Cl. 166-65.100.
Reed Lignin Inc.: *See*—
Hollis, John W., Jr.; and Layman, Linda M., 4,666,522, Cl. 106-123.100.
Reed, Lowell M., to Parco Mast and Substructure, Inc. Helicopter transportable traveling block. 4,676,484, 6-30-87, Cl. 254-402.000.
Reed Manufacturing Company: *See*—
Mitchell, Joseph T., 4,682,919, Cl. 409-179.000.
Reed, Marion G.; and Gibson, James B., to Chevron Research Company. Method and device for mixing stabilizing chemicals into earthen formations. 4,659,259, 4-21-87, Cl. 405-263.000.
Reed, Mark A.: *See*—
Frazier, Gary A.; Frensley, William R.; and Reed, Mark A., 4,705,361, Cl. 350-355.000.
Reed, Martin R. Lamp shade. 4,656,568, 4-7-87, Cl. 362-352.000.
Reed, Matt H. Method and apparatus for disabling vein valves in-situ. 4,655,217, 4-7-87, Cl. 128-305.000.
Reed, Michael A.; and McGrew, Gordon N., to Wm. Wrigley Jr. Company. Chewing gum with center fill comprising thaumatin or monellin and method. 4,642,235, 2-10-87, Cl. 426-5.000.
Reed, Michael A.: *See*—
Patel, Mansukh M.; Reed, Michael A.; Wokas, William J.; and Kures, Vasek J., 4,671,961, Cl. 426-3.000.
Patel, Mansukh M.; Reed, Michael A.; Wokas, William J.; and Kures, Vasek J., 4,671,967, Cl. 426-658.000.
Reed Mining Tools, Inc.: *See*—
Walk, Howard J., 4,697,652, Cl. 175-325.000.
Reed, Neil E.: *See*—
Hipple, James H.; Smith, Don W.; and Reed, Neil E., 4,613,711, Cl. 73-293.000.
Reed, Paul A.; and Flannagan, Stephen T., to Motorola, Inc. Bit line precharge on a column address change. 4,658,381, 4-14-87, Cl. 365-203.000.
Reed, Paul A.: *See*—
Flannagan, Stephen T.; and Reed, Paul A., 4,636,991, Cl. 365-230.000.
Flannagan, Stephen T.; and Reed, Paul A., 4,661,931, Cl. 365-203.000.
Flannagan, Stephen T.; Reed, Paul A.; and Barnes, John, 4,698,788, Cl. 365-205.000.
Flannagan, Stephen T.; and Reed, Paul A., 4,716,550, Cl. 365-207.000.
Reed, Phillip G.: *See*—
Baerenwald, Philip M.; and Reed, Phillip G., 4,680,019, Cl. 446-378.000.
Reed, Phillip J.: *See*—
Walling, Jorg-Heim; Cornibert, Jacques; Baxter, Gordon D.; Bottin, Marie-Francoise; Axiuk, Oleg; and Reed, Phillip J., 4,710,594, Cl. 174-120.0SR.
Reed, Richard K.; Reed, James R.; and Sorg, James D., to Sorg, James D. Collapsible disposable camera with external film development means. 4,660,951, 4-28-87, Cl. 354-187.000.
Reed, Robert J.: *See*—
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Vavadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Bob C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,642,968, Cl. 53-425.000.
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Varadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Bob C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,667,454, Cl. 53-425.000.
Reed, Robert L., Jr. Cleaner and actuator device for remote access valve controls. 4,643,218, 2-17-87, Cl. 137-237.000.
Reed Rock Bit Company: *See*—
Schumacher, Percy W., 4,657,093, Cl. 175-353.000.
Reed, Roger R.: *See*—
Bidell, Frederick W.; Kluever, Harold C.; and Reed, Roger R., 4,636,583, Cl. 178-22.170.
Reed, Ronald G., to ProtoCAD, Inc. Optical sight for computer controlled plotter with improved locating capability. 4,654,517, 3-31-87, Cl. 250-201.000.
Reed, Ronald G.; and Gustafson, Michael, to ProtoCAD, Inc. Drill apparatus for use with computer controlled plotter. 4,654,956, 4-7-87, Cl. 29-568.000.
Reed Tool Company: *See*—
Daly, Jeffery E.; and Schumacher, Percy W., 4,682,663, Cl. 175-329.000.
Daly, Jeffery E.; and Pastusek, Paul E., 4,688,647, Cl. 175-40.000.
Thompson, Charles M., 4,646,857, Cl. 175-329.000.
Reed, Wilbur T.: *See*—
Talbot, Laurel C.; and Reed, Wilbur T., 4,649,457, Cl. 361-127.000.
Reed, William C.: *See*—
Campbell, Eric R.; Moss, Joe B.; Mullin, Francis J.; and Reed, William C., 4,647,719, Cl. 174-93.000.
Reed, William J., to Associated Sprayers Limited. Hand-operated sprayers. 4,635,856, 1-13-87, Cl. 239-583.000.
Reed, William R., Jr.: *See*—
Komanduri, Ranga; and Reed, William R., Jr., 4,671,147, Cl. 82-36.00R.
Reed, Wilmer H., to United States of America, National Aeronautics and Space Administration. Airfoil flutter model suspension system. 4,682,494, 7-28-87, Cl. 73-147.000.
Reeder, Alfred R., Jr.; Lovett, Joe B.; and Archer, Barry W., to Dow Chemical Company, The. Apparatus and method for removal of inorganic aqueous solutions from organic solvents. 4,661,227, 4-28-87, Cl. 204-186.000.
Reeder, Conrad M., to Littelfuse, Inc. Cartridge fuse with two arc-quenching end plugs. 4,656,453, 4-7-87, Cl. 337-236.000.
Reeder, Gary D., to Electromedics, Inc. Method of washing red blood cells. 4,668,214, 5-26-87, Cl. 494-37.000.
Reeder, James A.; and Reeder, Joanne E. Portable, foldable replica of a facade of commercial establishments. 4,696,652, 9-29-87, Cl. 446-75.000.
Reeder, Joanne E.: *See*—
Reeder, James A.; and Reeder, Joanne E., 4,696,652, Cl. 446-75.000.
Reeder, Leonard J. Repair kit for detent cables. 4,682,513, 7-28-87, Cl. 206-223.000.
Reeder, Thomas M.: *See*—
DeMaria, Anthony J.; and Reeder, Thomas M., 4,663,746, Cl. 367-119.000.
Reedy, Dennis C.: *See*—
Beranger, Herve L.; Gaudenzi, Gene J.; Reedy, Dennis C.; and Schettler, Helmut, 4,682,050, Cl. 307-270.000.
Gaudenzi, Gene J.; and Reedy, Dennis C., 4,682,056, Cl. 307-456.000.
Reedy, Gerald T., to Cryolect Scientific Corporation. Matrix isolation apparatus with extended sample collection capability. 4,688,936, 8-25-87, Cl. 356-36.000.
Reedy, Robert P., to United States of America, Energy. Optical switch. 4,705,349, 11-10-87, Cl. 350-96.150.
Reedy, Ronald E., to United States of America, Navy. Fabrication of semiconductor devices in recrystallized semiconductor films on electrooptic substrates. 4,649,624, 3-17-87, Cl. 29-571.000.
Reedy, Ronald E.: *See*—
Albares, Donald J.; and Reedy, Ronald E., 4,696,536, Cl. 350-96.190.
Reef Industries, Inc.: *See*—
Gilbert, Ronald E., 4,699,838, Cl. 428-201.000.
Reel, David A.: *See*—
Taylor, Larry D.; Reel, David A.; and Renfro, Gene R., 4,633,770, Cl. 98-94.200.
Reell Precision Manufacturing Corp.: *See*—
Kossett, John A., 4,638,899, Cl. 192-81.00C.
Rees, Elwyn. Data entry interface assembly. 4,638,422, 1-20-87, Cl. 364-200.000.
Rees, Herbert: *See*—
Schad, Robert D.; Rees, Herbert; Hughes, Gary; and Murchie, John R., 4,690,633, Cl. 425-526.000.
Rees, Inc.: *See*—
Chebowski, Jerome E., 4,713,509, Cl. 200-328.000.
Rees, James D.: *See*—
Loce, Robert P.; Rees, James D.; and Durbin, John A., 4,692,015, Cl. 355-1.000.
Rees, James G., to James Hardie Brakes Pty. Limited. Railway brake shoe. 4,676,347, 6-30-87, Cl. 188-250.00G.
Rees, John E.: *See*—
Davies, David J. G.; Meakin, Brian J.; and Rees, John E., 4,642,234, Cl. 424-78.000.
Rees, John J. M., to Coats & Clark, Inc. Conductive wrist band. 4,654,748, 3-31-87, Cl. 361-220.000.
Rees, John R.: *See*—
Ingram, Brian; Margetts, Hugh G.; and Rees, John R., 4,702,354, Cl. 188-196.00D.
Rees, Lovat V. C.: *See*—
van der Vleugel, Dominicus J. M.; Hoving, Klaas; Wortel, Theodorus M.; Rosensweig, Ronald E.; and Rees, Lovat V. C., 4,687,878, Cl. 585-820.000.
Rees, Peter H.: *See*—
Jupp, Jeffrey A.; and Rees, Peter H., 4,714,215, Cl. 244-199.000.

Rees, Raymond M.: *See*—
Jones, Gary A.; Rees, Raymond M.; and Zato, Thomas J., 4,649,428, Cl. 358-188.000.
Rees, Thomas M.: *See*—
Lee, Timothy C. P.; and Rees, Thomas M., 4,689,389, Cl. 528-109.000.
Reese Enterprises, Inc.: *See*—
Berndt, Fred P., Jr., 4,675,222, Cl. 428-53.000.
Ellingson, Chester W., Jr., 4,663,903, Cl. 52-181.000.
Reese, George; Spielmaker, Richard; and Schatz, Douglas, to Advanced Energy, Inc. Matching circuit for delivering radio frequency electromagnetic energy to a variable impedance load. 4,679,007, 7-7-87, Cl. 333-17.00M.
Reese, H. William. Bone handling apparatus and method. 4,688,561, 8-25-87, Cl. 128-92.0YF.
Reese, Herschel H.: *See*—
Kookootsedes, Gust J.; Reese, Herschel H.; Gutek, Beth I.; and Pretzer, Gale H., 4,701,017, Cl. 350-96.340.
Reese, James R.; and Yelich, William, to Cla-Val Company. Air release and vacuum breaker valve system. 4,696,321, 9-29-87, Cl. 137-202.000.
Reese, Norman W., to Dow Chemical Company, The. Steam trap muffler. 4,705,138, 11-10-87, Cl. 181-212.000.
Reese, Robert: *See*—
Srebnik, Jack; and Reese, Robert, 4,688,595, Cl. 137-343.000.
Reese, Robert C.: *See*—
Green, Terry D.; Kao, Kenneth C.; O'Loughlin, Robert J., Jr.; and Reese, Robert C., 4,643,465, Cl. 285-236.000.
Reese, Robert M.; and Landry, Norman R., to RCA Corporation. Corrosion resistant conductive elastomers. 4,678,863, 7-7-87, Cl. 174-35.0GC.
Reese, Thomas J.; Ewing, John J.; Fecik, Michael T.; Frank, Robert G.; and Bennett, Terry A., to PPG Industries, Inc. Vacuum pressing of glass doublets. 4,661,139, 4-28-87, Cl. 65-106.000.
Reese, Thomas J., to PPG Industries, Inc. Lightweight bending iron heat shields for glass bending molds. 4,687,501, 8-18-87, Cl. 65-103.000.
Reese, Thorsten: *See*—
Pfeiffer, Hans-Dieter; Huinink, Heinrich; and Reese, Thorsten, 4,687,037, Cl. 152-209.00R.
Reese, Walter J.: *See*—
Neubauer, Jeffrey A.; Reese, Walter J.; and Spencer, Dennis O., 4,692,375, Cl. 428-299.000.
Reese, Winfield L. Portable sunshield. 4,659,144, 4-21-87, Cl. 257-189.000.
Reeser, David M.: *See*—
Breneman, William C.; and Reeser, David M., 4,690,810, Cl. 423-335.000.
Reesor, Douglas N.: *See*—
Dewing, Ernest W.; and Reesor, Douglas N., 4,668,351, Cl. 204-67.000.
Reesor, Gordon J.; Beirne, Patrick R.; and Styrna, Zbigniew B., to Mitel Corporation. Digital tone detector. 4,669,115, 5-26-87, Cl. 379-257.000.
Reesor, Gordon J.; Beirne, Patrick R.; and Styrna, Zbigniew B., to Mitel Corporation. Digital tone detector. 4,694,482, 9-15-87, Cl. 379-27.000.
Reetz, William R., to Trus Joist Corporation. Open web structural support mounting bracket and length adjustable web member. 4,682,460, 7-28-87, Cl. 52-632.000.
Reeve, Alan L.; and Nonaka, Henry H., to CPC International Inc. Starch separation process. 4,689,409, 8-25-87, Cl. 536-102.000.
Reeve, Michael H.; and Cassidy, Stephen A., to British Telecommunications plc. Optical fibre transmission line. 4,691,896, 9-8-87, Cl. 254-124.400.
Reeve, Randy F., to Calmar, Inc. Tamper evident closure. 4,687,113, 8-18-87, Cl. 215-230.000.
Reeve, Richard J.; and Noah, George I. Lightweight, self-powered, transportable crane assembly. 4,700,851, 10-20-87, Cl. 212-181.000.
Reeve, Thomas S.; and Brookes, John W., to R. Goodwin International Limited. Fluid/fluid separators. 4,666,476, 5-19-87, Cl. 55-203.000.
Reeves Brothers, Inc.: *See*—
Awdhan, Deo P., 4,673,452, Cl. 156-254.000.
Reeves, Dale. Apparatus for inspecting an externally threaded surface of an object. 4,644,394, 2-17-87, Cl. 358-101.000.
Reeves, Doyle E.; and Mott, Keith C., to Hydril Company. Threaded pipe connection with compressible seal ring. 4,703,959, 11-3-87, Cl. 285-332.300.
Reeves, Doyle E., to Hydril Company. Metal-to-metal wedge thread coupling connector. 4,712,815, 12-15-87, Cl. 285-334.000.
Reeves, Doyle E.: *See*—
Blose, Thomas L.; Chelette, K. Darrel; Ortloff, Donald J.; and Reeves, Doyle E., 4,662,659, Cl. 285-334.000.
Ortloff, Donald J.; and Reeves, Doyle E., 4,703,954, Cl. 285-115.000.
Reeves, Edwin H.: *See*—
von Beckmann, Helmuth; and Reeves, Edwin H., 4,658,730, Cl. 104-8.000.
Reeves, Ian B.: *See*—
Brown, Alan P. B.; and Reeves, Ian B., 4,715,424, Cl. 164-264.000.
Reeves, Raymond A. Device for supporting a building line reference. 4,689,889, 9-1-87, Cl. 33-408.000.
Reeves, Richard R. Detachable shoe-lure dispenser. 4,682,715, 7-28-87, Cl. 222-175.000.
Reeves, Robert E., to Pakway Container Corp. Stackable shipping edge protector. 4,714,163, 12-22-87, Cl. 206-518.000.
Reeves, Robert H., Jr.; Green, Donald H.; Birdwell, Jimmy A.; and Jorgensen, Henry A., to Velasco Scale Company. Drum filling apparatus and method. 4,703,780, 11-3-87, Cl. 141-1.000.
Reeves, Roger D.; and Hawkey, Dale F. Ultrasonic inspection apparatus and method for locating multiple defects in eccentric wall tubular goods. 4,641,531, 2-10-87, Cl. 73-622.000.
Reeves, Scott P.: *See*—
Kester, Eugene A.; Reeves, Scott P.; and Zemanek, Danny, 4,712,756, Cl. 248-165.000.
Reeves, William E.; and Cobb, Jasper E., III, to Armco Inc. Boom crane centering. 4,653,271, 3-31-87, Cl. 60-494.000.
Refac Electronics Corporation: *See*—
Danby, Philip, 4,641,090, Cl. 324-107.000.
Reference Technology, Inc.: *See*—
Douglas, Daniel G., Jr., 4,651,231, Cl. 358-342.000.
Reffert, Rudi W.: *See*—
Berger, Rosemarie; Dreher, Hermann; Hambrecht, Juergen; Heil, Eduard; Reffert, Rudi W.; Swoboda, Johann; Echte, Adolf; and Siebel, Peter, 4,654,418, Cl. 528-486.000.
Regal International, Inc.: *See*—
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Regal Ware, Inc.: *See*—
Hupf, Charles J., 4,697,501, Cl. 99-279.000.
Remmel, Wayne R.; and Steinhardt, Mark S., 4,667,085, Cl. 219-439.000.
Regalbuto, John A.; Mayes, Philip W.; and Behling, William C., to Jet Research Center, Inc.; and Halliburton Company. Shaped charge carrier assembly. 4,655,138, 4-7-87, Cl. 102-307.000.
Regalbuto, John A., to Jet Research Center, Inc. Tanged charge holder. 4,681,037, 7-21-87, Cl. 102-310.000.
Regan, A. Michael; and Matsuda, Eugene S., to Hughes Tool Company. Subsea well template levelling system. 4,674,920, 6-23-87, Cl. 405-227.000.
Regan, Albert M., to Hughes Tool Company. Metal seal for a tubular connection. 4,641,841, 2-10-87, Cl. 277-30.000.
Regan, Albert M.: *See*—
Watkins, Bruce J.; Regan, Albert M.; Crager, Bruce L.; Fox, Gary L.; and Houlgrave, Robert C., 4,648,747, Cl. 405-195.000.
Regan, Barbara R.: *See*—
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Regan, Barrie F. Apparatus for breaking semiconductor wafers and the like. 4,653,680, 3-31-87, Cl. 225-104.000.
Regan, John R.: *See*—
Piwinski, John J.; Suh, John T.; Menard, Paul; Jones, Howard; Neiss, Edward S.; and Regan, John R., 4,666,906, Cl. 514-222.000.
Regan, Michael T.: *See*—
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Hung, Yann; Klose, Thomas R.; Regan, Michael T.; and Rossi, Louis J., 4,701,396, Cl. 430-58.000.
Regan, Robert J.: *See*—
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Regan, Thomas O., to United States of America, Energy. Liquid detection circuit. 4,706,497, 11-17-87, Cl. 73-295.000.
Regas, Jennine; and Fernando, Ranjit S., to Zetek, Inc. Method and apparatus for predicting and detecting the onset of ovulation. 4,685,471, 8-11-87, Cl. 128-734.000.
Regdon Solenoid, Inc.: *See*—
Henley, Lester P., 4,683,452, Cl. 335-234.000.
Regel, Erik; Draber, Wilfried; Buchel, Karl H.; Frohberger, Paul-Ernst; and Lurssen, Klaus, to Bayer Aktiengesellschaft. Azolyl-thioether derivatives as fungicides and plant growth regulators. 4,699,645, 10-13-87, Cl. 71-76.000.
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Paessens, Arnold; Streissle, Gert; Plempel, Manfred; Buchel, Karl H.; Elbe, Hans-Ludwig; Holmwood, Graham; Kraatz, Udo; and Regel, Erik, 4,668,660, Cl. 514-383.000.
Regelman, Dale F., to Dow Chemical Company, The. Method for scavenging acidic impurities from polymeric isocyanates. 4,661,627, 4-28-87, Cl. 560-352.000.
Regelman, Dale F., to Dow Chemical Company, The. Novel product and process. 4,703,099, 10-27-87, Cl. 528-54.000.
Regelman, Dale F.: *See*—
Pritchard, James R.; and Regelman, Dale F., 4,696,954, Cl. 521-167.000.
Regelsberger, Wolfgang; Rumpp, Gerhard; and Spieth, Manfred, to Hilti Aktiengesellschaft. Clamping chuck for holding drilling and/or cutting tools. 4,652,187, 3-24-87, Cl. 408-240.000.
Regenass, Franz; and Hamblin, Peter C. Benzotriazole mixtures, processes for producing them, and their use as metal passivators. 4,683,071, 7-28-87, Cl. 252-49.300.
Regenass, Franz: *See*—
Brady, Arthur; Kristen, Ulrich; Angerer, Hermann F.; and Regenass, Franz, 4,701,273, Cl. 252-32.500.
Regency Electronics, Inc.: *See*—
Boone, Joseph E.; and Ahlemeyer, W. Bruce, 4,713,661, Cl. 340-994.000.
Young, Jing J.; and Stuart, Richard L., 4,660,193, Cl. 370-11.000.

Regenerative Environmental Equip. Co., Inc.: *See*—
Benedick, Edward H., 4,697,531, Cl. 110-336.000.
Regenerative Environmental Equipment Co., Inc.: *See*—
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Reger, Arno: *See*—
Seeger, Gunter A.; and Reger, Arno, 4,705,922, Cl. 200-61.45M.
Reger, Philip R., to American Manufacturing Company, Inc. Condition-responsive switching circuit. 4,641,132, 2-3-87, Cl. 340-540.000.
Regester, Gary L. Light box for photographic use. 4,669,031, 5-26-87, Cl. 362-16.000.
Regev, Mordechai: *See*—
Assaf, Gad; and Regev, Mordechai, 4,672,950, Cl. 126-452.000.
Regge, Klaus-Dieter, to Meltex Verbindungs-Technik GmbH. Electrically heated hose for heating melted adhesive and atomizing air fed to a spraying head. 4,667,084, 5-19-87, Cl. 219-301.000.
Reggio, Richard A.: *See*—
Weiss, Gilbert; D'Amelia, Ronald P.; Reggio, Richard A.; and Wolf, Stephen H., 4,656,039, Cl. 426-5.000.
Regie Nationale des Usines Renault: *See*—
Augello, Daniel; Robert, Pierre H.; Teshima, Toru; and Naete, Hidehiko, 4,663,718, Cl. 364-444.000.
Banon, Louis; Lajoie-Mazenc, Michel; and Mathieu, Pierre, 4,709,179, Cl. 310-156.000.
Bascou, Jacques, 4,691,581, Cl. 74-30.000.
Baudoin, Patrice, 4,676,766, Cl. 474-1.000.
Boccadoro, Yves; and Shuttler, Philippe, 4,597,562, Cl. 123-339.000.
Castarede, Armand, 4,651,629, Cl. 92-176.000.
Galles, Henri; and Elias, Bernard, 4,700,864, Cl. 220-86.00R.
Gallet, Patrick; and Galles, Henri, 4,681,343, Cl. 280-699.000.
Lefevre, Remi; and Saint Leger, Gerard, 4,658,782, Cl. 723-339.000.
Leorat, Francois, 4,633,985, Cl. 192-0.055.
Leorat, Francois; Coutant, Patrick; and Aubert, Paul, 4,664,1[illegible]7, Cl. 137-118.000.
Leorat, Francois; Coutant, Patrick; and Aubert, Paul, 4,679,985, Cl. 417-218.000.
Leorat, Francois; Coutant, Patrick; and Aubert, Paul, 4,691,597, Cl. 74-869.000.
Lombard, Claude; Moyses, Claude; Catier, Gerard; and Montaron, Bernard, 4,637,246, Cl. 73-35.000.
Lombard, Claude; Brisset, Jean-Paul; Catier, Gerard; Marais, Jean-Luc; and Zammarchi, Gino, 4,682,104, Cl. 324-208.000.
Lombard, Claude; Brisset, Jean-Paul; Marais, Jean-Luc; and Catier, Gerard, 4,702,208, Cl. 123-339.000.
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Teshima, Tohru; Funaoka, Chihiro; and Robert, Pierre H., 4,647,902, Cl. 340-52.00R.
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Hafner, Walter; Ritter, Peter; Gebauer, Helmut; and Regiert, Marlies, 4,710,316, Cl. 512-20.000.
Regimand, Ali, to Troxler Electronic Laboratories, Inc. Apparatus and method for directly measuring the density of a thin layer. 4,641,030, 2-3-87, Cl. 250-308.000.
Regimand, Ali, to Troxler Electronic Laboratories, Inc. Apparatus and method for accurately measuring the density of materials with rough surfaces by radiation backscatter. 4,701,868, 10-20-87, Cl. 364-558.000.
Regimbeau, Guy; Augelmann, Gerard; and Disdier, Camille, to Rhone-Poulenc Specialties Chimiques. Process for the preparation of N-2-alkenyl-m-trifluoromethylanilines. 4,701,560, 10-20-87, Cl. 564-404.000.
Regina Co., Inc., The: *See*—
Duncan, L. Scot; Groth, Hugh F.; and Collins, John M., 4,712,740, Cl. 239-340.000.
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Petralia, Salvatore; and Young, H. Gerald, 4,686,736, Cl. 15-332.000.
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Birx, Daniel L.; and Reginato, Louis L., 4,646,027, Cl. 328-233.000.
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Regionala Stiftelsen i Varmland med firma Erress: *See*—
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Regipa, Robert, to Centre National d'Etudes Spatiales. Device for coupling a balloon envelope with an element external to the envelope. 4,696,444, 9-29-87, Cl. 244-127.000.
Regipa, Robert, to Centre National d'Etudes Spatiales. Method and a device for hooking a balloon envelope to a fastener means. 4,705,235, 11-10-87, Cl. 244-31.000.
Regipa, Robert, to Centre National d'Etudes Spatiales. Steerable lighter than air balloon. 4,711,416, 12-8-87, Cl. 244-31.000.
Regis, Richard R.: *See*—
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Regla, Juan; and Lazaro, Jose, to AMP Incorporated. Electrical connector and an electrical terminal. 4,679,876, 7-14-87, Cl. 439-426.000.
Regnard, Patrick: *See*—
Schapira, Joseph; Ken, Victor; Duboys, Francois-Joseph; and Regnard, Patrick, 4,670,066, Cl. 148-6.15Z.
Regnault, Alain: *See*—
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Regnier, Francois, to Synthelabo. Alfuzosine compositions and [illegible], 4,661,491, 4-28-87, Cl. 514-260.000.
Regnier, Kent E.; Hoover, Thomas C.; and Walse, Alan S., to Molex Incorporated. Compliant high density edge card connector with contact locating features. 4,713,013, 12-15-87, Cl. 439-62.000.
Regnier, Kent E.: *See*—
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Stipanuk, John M.; Walse, Alan S.; and Regnier, Kent E., 4,665,614, Cl. 29-884.000.
Regola, Claudio: *See*—
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Regunathan, Perialwar; and Thomsen, Jack W., to Everpure, Inc. Quick change reverse osmosis assembly. 4,645,601, 2-24-87, Cl. 210-433.200.
Reh, Kim R., to General Dynamics, Pomona Division. Bearing [illegible] tester. 4,672,838, 6-16-87, Cl. 73-9.000.
Reh, Klaus, to Standard Elektrik Lorenz Aktiengesellschaft. Horizontal deflection circuit. 4,651,063, 3-17-87, Cl. 315-371.000.
Reh, Kuno; and Schophoff, Friedrich, to Cassella Aktiengesellschaft. Process for the preparation of 2,4-dinitrophenyl ethers. 4,695,659, 9-22-87, Cl. 568-587.000.
Reh, Kuno: *See*—
Kussmaul, Ulrich; Langer, Manfred; Reh, Kuno; Becherer, Johannes; Wille, Herbert; and Muller, Rolf, 4,677,209, Cl. 546-221.00.
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Graf, Rolf; Reh, Lothar; and Schroter, Michael, 4,670,237, Cl. 423-244.000.
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Zwilling, Hermann, 4,709,730, Cl. 138-111.000.
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Rehbein, Richard E., to Pullman Rail Leasing Inc. Railway tank car with protective device for protrusion. 4,697,528, 10-6-87, Cl. 105-358.000.
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Almqvist, Christer; and Lindahl, Lars, 4,646,821, Cl. 165-166.000.
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Ferentchak, Rudolph; Kozischek, James F.; and Schwartz, Jerome E., 4,708,967, Cl. 521-56.000.
Rehklaw, George: *See*—
Pfannkuch, Robert B.; Didriksen, Neil A.; and Rehklaw, George, 4,652,941, Cl. 360-18.000.
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Bauch, Helmut; and Rehm, Hans, 4,639,613, Cl. 307-241.000.
Rehm, Roger P.; and Trimmer, William R., to Singer Products Corporation. Locking mast and stop ring assembly. 4,663,900, 5-12-87, Cl. 52-115.000.
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Rei, Nuno M., to Morton Thiokol, Inc. Solid biocide dry blend. 4,661,528, 4-28-87, Cl. 521-85.000.
Rei, Nuno M.; and Wilson, Ronald C., to Morton Thiokol Inc. Microbiocidal compositions comprising an aryl alkanol and a microbiocidal compound dissolved therein. 4,663,077, 5-5-87, Cl. 252-364.000.
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Zarrineghbal, Hossein; and Quinlan, Charles W., 4,711,713, Cl. 208.222.000.
Reiber, Klaus H.: *See*—
Hartl, Walter A. M.; Peter, Diethard A.; and Reiber, Klaus H., 4,677,651, Cl. 378-132.000.
Reiber, Thomas L.; and Robinson, Gerald K., to Owens-Illinois, Inc. Plastic container. 4,671,421, 6-9-87, Cl. 215-228.000.
Reiboldt, Howard N.: *See*—
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Reich, Charles: *See*—
Dee, Robert N.; and Reich, Charles, 4,672,964, Cl. 128-305.000.
Reich, Frederick R.; and Allen, Errol V., to Kirin Beer Kabushiki Kaisha. Glass bottle inspection. 4,651,568, 3-24-87, Cl. 73-612.000.
Reich, Gunter, to Leybold-Heraeus GmbH. Friction pump. 4,645,413, 2-24-87, Cl. 415-72.000.
Reich, Peter S., to Design Mobility, Inc. Device for transferring immobile persons. 4,682,377, 7-28-87, Cl. 5-86.000.
Reich, Reinhold, to Siemens Aktiengesellschaft. Connector device for a group of insulated conductors. 4,669,800, 6-2-87, Cl. 439-399.000.
Reich, Ronald K.: *See*—
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Andersen, Philip M.; and Reich, Ronald K., 4,685,234, Cl. 40-625.0.0.
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Dettelbach, Alfred; and Binder, Werner, 4,711,147, Cl. 83-863.000.
Reich, William N., to Spectrolyte, Inc. Microscope illuminator. 4,648,589, 2-3-87, Cl. 350-523.000.
Reichard, George W., Jr.: *See*—
Denkmann, W. John; Gustin, Paul R.; and Reichard, George W., Jr., 4,650,269, Cl. 339-99.00R.
Reichard, Jeffrey A.: *See*—
Kampf, Julian C.; Reichard, Jeffrey A.; Libert, James T.; Curran, Earl J., Jr.; and Graefe, Richard J., 4,634,951, Cl. 318-778.000.
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Reichardt, Manfred, to Allied Corporation. Circuit board with integral connector. 4,668,033, 5-26-87, Cl. 339-17.0LC.
Reichardt, Manfred, to Allied Corporation. Connector adapted to be mounted on a surface of a printed circuit board. 4,676,565, 6-30-87, Cl. 439-79.000.
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Reichardt, Manfred, to Allied Corporation. Circuit board with integral positioning means. 4,669,867, 8-25-87, Cl. 439-83.000.
Reichart, Elwood C., to Motorola, Inc. Overdissipation protection circuit for a semiconductor switch. 4,672,502, 6-9-87, Cl. 361-101.000.
Reichel, Anton; Lohmann, Bernard; Kolb, Eugen; Hochkonig, Manfred; Byrst, Hermann; and Kretschmer, Helmut, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Air inlet channel for a charging air intercooler. 4,690,204, 9-1-87, Cl. 165-44.000.
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Reichel, Curtis J.: *See*—
Ramlow, Gerhard G.; Heyman, Duane A.; Grace, Oscar M.; Reichel, Curtis J.; and Hartman, Robert J., 4,689,354, Cl. 521-137.000.
Reichel, Gilbert, administrator: *See*—
Reichel, Paul, deceased; and Reichel, Gilbert, administrator, 4,692,722, Cl. 333-142.000.
Reichel, Judith, to Timex Corporation. Resin watch case with hidden lug support. 4,653,933, 3-31-87, Cl. 368-282.000.
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Reichel, Kenneth R.; and Hebrock, Steve, to Audio Technica U.S., Inc. Duplex microphone communication system. 4,691,349, 9-1-87, Cl. 379-391.000.
Reichel, Kenneth R.; and Hebrock, Steve, to Audio Technica U.S., Inc. Audible audio level indicator. 4,712,093, 12-8-87, Cl. 340-540.000.
Reichel, Paul, deceased; and Reichel, Gilbert, administrator, to Loral Corporation. Compact frequency dispersive bulk acoustic wave channelizer. 4,692,722, 9-8-87, Cl. 333-142.000.
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Costa, Jorge; and Reichel, Wolfgang, 4,637,601, Cl. 271-160.000.
Costa, Jorge; and Reichel, Wolfgang, 4,667,947, Cl. 271-9.000.
Timmer, Hans H.; and Reichel, Wolfgang, 4,683,941, Cl. 165-47.000.
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Mahlein, Hans F.; Reichelt, Achim; and Winzer, Gerhard, 4,637,682, Cl. 350-96.150.
Mahlein, Hans F.; Michel, Herbert; Reichelt, Achim; and Winzer, Gerhard, 4,682,843, Cl. 350-96.150.
Reichelt, Wolfgang; Voss-Spilker, Peter; Feuerstacke, Ewald; and Schwarz, Klaus, to Mannesmann AG. Controlling mold oscillations. 4,703,789, 11-3-87, Cl. 164-154.000.
Reicherbach, Dean H., to Cummins Engine Company, Inc. Compression braking system for an internal combustion engine. 4,711,210, 12-8-87, Cl. 123-321.000.
Reichenbach, Reiner: *See*—
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Harsch, Erich; and Reichenbach, Reiner, 4,697,449, Cl. 72-405.000.
Reichenbach, Thomas G., to Ford Motor Company. Motor vehicle anti-roll stabilizer system. 4,641,856, 2-10-87, Cl. 280-772.000.
Reichenberger, Helmut, to Siemens Aktiengesellschaft. Apparatus for producing time-staggered shock waves. 4,664,111, 5-12-87, Cl. 128-328.000.
Reichenberger, Helmut, to Siemens Aktiengesellschaft. Shock wave tube for the fragmentation of concrements. 4,697,588, 10-6-87, Cl. 128-328.000.
Reichenberger, Helmut: *See*—
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Stetter, Eckart; Reichenberger, Helmut; Schneider, Siegfried; and Wirth, Axel, 4,682,108, Cl. 324-309.000.
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Reichert, Dietrich. Method for combating snoring. 4,668,513, 5-26-87, Cl. 424-94.000.
Reichert, Ernst; and Schutt, Karl, to Stump Bohr GmbH. Ground anchor system. 4,715,745, 12-29-87, Cl. 405-262.000.
Reichert, Frederick K.: *See*—
Downs, Robert C.; Nitz, Larry T.; Reichert, Frederick K.; and Wanamaker, Joseph L., 4,671,136, Cl. 74-866.000.
Reichert, Gerhard; and Riedel, Friedrich, to Siemens Aktiengesellschaft. Fan wheel for radial fan. 4,639,193, 1-27-87, Cl. 416-184.000.
Reichert, Gerhard: *See*—
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Reichert, Karl-Heinz; and Kowchinski, Ingo, to Bayer Aktiengesellschaft. Fibre-reinforced or filled polyphenylene sulphide, 4,657,945, 4-14-87, Cl. 523-200.000.
Reichert, Karl-Heinz; Schoeppel, Wolfgang; Ewangelidis, Stawros; Bednarz, Jurgen; and Leute, Ulrich, to Siemens Aktiengesellschaft. Thermally conducting, electrically insulating thermoplastics. 4,705,648, 11-10-87, Cl. 252-512.000.
Reichert, Karl-Heinz; and Kowchinski, Ingo, to Bayer Aktiengesellschaft. Fibre-reinforced or filled polyphenylene sulphide containing treated aramide fibers. 4,710,546, 12-1-87, Cl. 525-420.000.

Reichert, Leo E., Jr.: *See*—
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Reichert, Walter F., to RCA Corporation. Low resistance gallium arsenide field effect transistor. 4,651,179, 3-17-87, Cl. 357-22.000.

Reichert, William W.; Cody, Charles A.; Desesa, Michael A.; and Faulseit, Bruce K., to NL Chemicals, Inc. Solvent-free coating composition and process for protecting a surface from corrosion. 4,710,404, 12-1-87, Cl. 427-386.000.

Reichert, William W.: *See*—
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Magauran, Edward D.; Cody, Charles A.; Reichert, William W.; Kieke, Mauriello D.; Kemnetz, Steven J.; and Chiavoni, Araxi, 4,664,820, Cl. 252-78.000.

Reichhold Chemicals, Inc.: *See*—
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Feeney, George F., III, 4,699,663, Cl. 106-218.000.
Smith, Arthur C., 4,666,524, Cl. 106-264.000.

Reichle & De Massari AG Elektro-Ingenieure: *See*—
Reichle, Hans, 4,641,225, Cl. 361-429.000.

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Reichle, Hans, to Reichle + De Massari AG Elektroingenieure. Telephone accessory housing. 4,679,231, 7-7-87, Cl. 379-396.000.

Reichle, Walter T., to Union Carbide Corporation. Process for alkylene oxide polymerization. 4,667,013, 5-19-87, Cl. 528-414.000.

Reichle + De Massari AG Elektroingenieure: *See*—
Reichle, Hans, 4,679,231, Cl. 379-396.000.

Reichley, Fred J.: *See*—
Coyle, E. Michael; Reichley, Fred J.; Verbrugge, Calvin J.; and Villarreal, John G., 4,680,202, Cl. 427-389.900.

Reichlin, Anton; and Zublin, Marcel, to Marcel Zublin. Method and apparatus for controlling a load. 4,656,351, 4-7-87, Cl. 250-221.000.

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Penniman, John G.; and Reichlin, Maria S., 4,684,440, Cl. 162-184.000.

Reichlova, Ruzena: *See*—
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Reichman, Benjamin; Liang, Gao; and Sapru, Krishna, to Energy Conversion Devices, Inc. Liquid junction photoelectrodes using amorphous silicon-based thin film semiconductor. 4,656,105, 4-7-87, Cl. 429-111.000.

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Reichman, James M.; McDonald, Michael C.; and O'Brien, T. B., to Flowdril Corporation. Method and apparatus for removing the inner conduit from a dual passage drill string. 4,691,790, 9-8-87, Cl. 175-67.000.

Reichman, Jim: *See*—
Geller, Edward; Kirby, Mike; Mercer, John; O'Hanlon, Tom; Reichman, Jim; Theimer, Ken; and Svendsen, Robert, 4,674,579, Cl. 175-45.000.

Reichmanis, Elsa: *See*—
Chandross, Edwin A.; Reichmanis, Elsa; and Wilkins, Cletus W., Jr., 4,666,820, Cl. 430-270.000.
Novembre, Anthony E.; and Reichmanis, Elsa, 4,701,342, Cl. 427-38.000.

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Reichmuth, Arthur; and Wachter, Hanspeter. Weighing apparatus including auxiliary tare store means. 4,676,329, 6-30-87, Cl. 177-165.000.

Reichow, Keith W., to Stress-Tek, Inc. On-board load cell. 4,666,003, 5-19-87, Cl. 177-136.000.

Reichwald, Werner: *See*—
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Reick, Horst; and Kratz, Gerhard, to Siemens Aktiengesellschaft. Control device for a direct current semiconductor regulator. 4,634,943, 1-6-87, Cl. 318-432.000.

Reicks, Allen V., to Martin Engineering Company. Conveyor belt scraper blade. 4,658,949, 4-21-87, Cl. 198-497.000.

Reid, A. J.: *See*—
Claffey, William J.; and Reid, A. J., 4,650,526, Cl. 148-6.14R.

Reid, Alan J.: *See*—
Claffey, William J.; and Reid, Alan J., 4,656,097, Cl. 428-457.000.

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Reid, Daniel G.; and Van Meter, C. Sterling, to United States of America, Navy. Circumferential slotted ridged waveguide array antenna. 4,658,261, 4-14-87, Cl. 343-771.000.

Reid, David I.; Ellson, John C.; and Betts, Malcolm C., to Northern Telecom Limited. Communications system with protection switching and channel identities. 4,646,286, 2-24-87, Cl. 370-16.000.

Reid, Dennis D. Archimedian screw type spinner lure. 4,637,151, 1-20-87, Cl. 43-42.190.

Reid, Donald E., to Hercules Incorporated. Metallizable polypropylene film. 4,692,380, 9-8-87, Cl. 428-349.000.

Reid, Dwight K., to Betz Laboratories, Inc. Process and composition for color stabilized distillate fuel oils. 4,647,289, 3-3-87, Cl. 44-57.00.

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Reid, Dwight K.: *See*—
Forester, David R.; and Reid, Dwight K., 4,680,421, Cl. 585-648.000.

Reid, Edward A.; Cook, F. Bert; and Purvis, Edgar M., to Columbia Gas System Service Corp. Dual cooling/heating system energy recovery. 4,691,532, 9-8-87, Cl. 62-476.000.

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Reid, Iain K.; Staite, Eric; Richmond, Doug; and Rumbelow, George, to Joyce International, Inc. Positive interlock for file cabinet. 4,637,667, 1-20-87, Cl. 312-217.000.

Reid, James S., to Graniteville Company. Dock shelter fabric. 4,636,423, 1-13-87, Cl. 428-196.000.

Reid, John H. Process for operating a total barrier oxidation unit. 4,643,830, 2-17-87, Cl. 210-629.000.

Reid, John M.: *See*—
Klepper, John R.; Reid, John M.; Miwa, Hirohide; Shimo, Takaki; and Murakami, Keiichi, 4,648,276, Cl. 73-599.000.

Reid, Joyce: *See*—
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Nakane, Masami; and Reid, Joyce, 4,654,356, Cl. 514-382.000.
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Reid, Laurance S. Absolute separator. 4,690,698, 9-1-87, Cl. 55-89.000.

Reid, Laurie M., to Uni-Pak Film Systems, Inc. Adjustable packaging device. 4,702,060, 10-27-87, Cl. 53-69.000.

Reid, Lee R., to Texas Instruments Incorporated. Structure for packaging focal plane imagers and signal processing circuits. 4,660,066, 4-21-87, Cl. 357-30.000.

Reid, Lola C. M.; and Rojkind, Marcos, to Albert Einstein College of Medicine of Yeshiva University. Method for isolation of connective tissue biomatrix. 4,642,292, 2-10-87, Cl. 435-240.000.

Reid, Lola C. M., to Albert Einstein College of Medicine of Yeshiva University. Culturing and emplacement of differentiated cells in vivo. 4,645,669, 2-24-87, Cl. 424-95.000.

Reid Manufacturing Co., Inc.: *See*—
Cothery, Jeffrey R., 4,694,576, Cl. 30-280.000.

Reid, Paul A.: *See*—
Barton, James C.; Hefner, Robert E.; Reid, Paul A.; and Sable, Frank R., 4,694,928, Cl. 180-268.000.

Reid, Paul D., to Gulf & Western Manufacturing Company. Portable aircraft arresting apparatus. 4,674,711, 6-23-87, Cl. 244-110.00C.

Reid, Philip L.; and Lofton, Thomas S., Jr. Process for covering articles with film. 4,658,568, 4-21-87, Cl. 53-410.000.

Reid, Philip L. Apparatus for measuring transmission of volatile substances through films. 4,660,411, 4-28-87, Cl. 73-38.000.

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Reid, Philip L.: *See*—
Roberts, John T.; and Reid, Philip L., 4,633,653, Cl. 53-498.000.

Reid, Robert: *See*—
Samson, Joseph E.; Wolff, Kenneth T.; Reid, Robert; Hendrie, Gardner C.; Falkoff, Daniel M.; Dynneson, Ronald E.; Clemson, Daniel M.; and Baty, Kurt F., 4,654,857, Cl. 371-68.000.

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Reid, Rod B. Auger apparatus. 4,666,033, 5-19-87, Cl. 198-664.000.

Reid, Stephen R., to Westinghouse Electric Corp. Dynamoelectric machine coil slot wedge mounting arrangement. 4,710,663, 12-1-87, Cl. 310-214.000.

Reid, William F., to Ashland Oil, Inc. Abrasion resistant latex underbody coating. 4,649,170, 3-10-87, Cl. 524-247.000.

Reid, Willis A., Jr.: *See*—
Miller, Robert E.; and Reid, Willis A., Jr., 4,659,738, Cl. 514-514.000.

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Hames, Jeffrey L.; Lacey, Charles M.; Neuman, Ronald R.; and Reidenbach, John R., 4,661,729, Cl. 310-13.000.
Luoma, Richard W.; Reidenbach, John R.; and Schwieters, Clarence R., 4,700,246, Cl. 360-98.000.

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Halter, Hartmut, 4,711,747, Cl. 264-40.200.

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Balk, Hermann, 4,708,619, Cl. 425-141.000.
Grabowski, Robert; and Kramer, Walter, 4,692,106, Cl. 425-66.000.
Predohl, Wilhelm; Beisemann, Heinz; and Reitemeyer, Paul, 4,695,236, Cl. 425-131.103.
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Pupp, Herwig; Soukup, Franz; and Reil, Wilhelm, 4,671,452, Cl. 229-52.00B.

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Reiling, Gilbert H., to General Electric Company. Metallic halide electric discharge lamps. 4,678,960, 7-7-87, Cl. 313-25.000.

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Reilley, Edmund W. Protective propane tank control housing assembly. 4,635,676, 1-13-87, Cl. 137-354.000.

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Reilly, David M.; and Uber, Arthur E., III, to Medrad, Inc. Angiographic injector and angiographic syringe for use therewith. 4,677,980, 7-7-87, Cl. 128-655.000.

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Huber, Ludwig K.; and Reilly, James L., 4,649,167, Cl. 524-99.000.

Reilly, James P.; and Yoder, M. John, to Laser Corporation of America. Flowing gas laser having screening for smoothing low turbulence flow. 4,635,269, 1-6-87, Cl. 372-58.000.

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Reilly, Letizia; and Acerra, Rita. Automatic drapery pleating device and method. 4,655,272, 4-7-87, Cl. 160-348.000.

Reilly, Roger D.; Teal, Richard D.; and Hoffman, Robert A., to Deere & Company. Hitch. 4,688,819, 8-25-87, Cl. 280-461.00A.

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Toomey, Joseph E., Jr., 4,670,111, Cl. 204-73.00A.
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Dellinger, J. A.; Goins, Neal R.; and Reilly, Theresa A., 4,686,657, Cl. 367-75.000.

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Reiman, Allan; and Boozer, Allen, to United States of America, Energy. Method and apparatus for maintaining equilibrium in a helical axis stellarator. 4,668,464, 5-26-87, Cl. 376-133.000.

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Reimann, Hans: *See*—
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Reimann, Harold J. Auxiliary mounting device for cultivating implements. 4,650,006, 3-17-87, Cl. 172-443.000.

Reimann, Horst: *See*—
McKee, Graham E.; Ohlig, Hilmar; Reimann, Horst; and Sterzel, Hans-Josef, 4,694,042, Cl. 525-66.000.

Reimann, Jurgen-Andreas; and Basilowski, Herbert, to Siemens Aktiengesellschaft. Method and apparatus for numerical control of machine tools. 4,695,960, 9-22-87, Cl. 364-474.000.

Reimann, Peter: *See*—
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Reimann, Robert C., to Carrier Corporation. Heat pipe array heat exchanger. 4,688,399, 8-25-87, Cl. 62-485.000.

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Reimann, William G., to Hughes Aircraft Company. High density printed wiring board. 4,663,497, 5-5-87, Cl. 174-68.500.

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Fabian, Peter; and Hoffmann, Karl-Heinz, 4,703,896, Cl. 241-172.000.

Reimche, Heinrich, to Dorst Maschinen- und Analagenbau, Otto Dorst und Dipl.-Ing. Walter Schlegel GmbH & Co. Pressing tool for producing dish-shaped pressed objects, in particular plates, cups, bowls, etc., of powders, preferably ceramic material. 4,701,122, 10-20-87, Cl. 425-584.000.

Reimels, Harry G., to Mentor O & O, Inc. Suture tying forceps. 4,693,246, 9-15-87, Cl. 128-321.000.

Reimels, Harry G.; Walsh, David A.; and Arsenault, Michael J., to Mentor O & O, Inc. Ophthalmic aspirator-irrigator. 4,705,500, 11-10-87, Cl. 604-35.000.

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Reimer, William A., to GTE Communication Systems Corporation. Electromagnetic interference reducing assembly. 4,641,224, 2-3-87, Cl. 361-424.000.

Reimers, Eric W. Golf bag with integral stand. 4,676,464, 6-30-87, Cl. 248-96.000.

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Rattunde, Manfred, 4,710,154, Cl. 474-242.000.

Reimert, Larry E., to Dril-Quip, Inc. Stabbing connector. 4,648,627, 3-10-87, Cl. 285-24.000.

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Rein, Hans-Martin, to Telefunken electronic GmbH. Dynamic frequency divider with a mixer stage and an amplifier. 4,695,940, 9-22-87, Cl. 363-157.000.

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Glaser, Gerhard; Lindae, Gerhard; Perthus, Peter; and Rein, Heinz, 4,701,834, Cl. 362-307.000.

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Reina, Leo J.; and Antolik, William J. Anti-scatter grid structure. 4,706,269, 11-10-87, Cl. 378-154.000.

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Reinartz, Hans D.; and Steffes, Helmut, to Alfred Teves GmbH. Hydraulic brake system with slip control. 4,687,259, 8-18-87, Cl. 303-114.000.

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Reinartz, Hans-Dieter, to Alfred Teves GmbH. Hydraulic vehicle servo brake. 4,643,488, 2-17-87, Cl. 303-114.000.

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Burgdorf, Jochen; and Reinartz, Hans-Dieter. 4,674,804, Cl. 303-6.00R.

Reinaud, Guy F., to Imperial Chemical Industries, PLC. Vehicle guidance means. 4,703,820, 11-3-87, Cl. 180-169.000.

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Reinauer, Joseph, to Guhring, Inc. Drill with novel insert. 4,676,702, 6-30-87, Cl. 408-144.000.

Reinberg, Alan R.: *See*—
Keenan, Joseph A.; and Reinberg, Alan R., 4,676,661, Cl. 368-156.000.

Reinboth, John K. L. Perambulator. 4,664,397, 5-12-87, Cl. 280-39.000.

Reinders, Edward D.: *See*—
Laugs, Johannis A. B.; Van Den Berg, Gerrit; Van Daalen, Peter A.; and Reinders, Edward D., 4,690,718, Cl. 156-48.000.

Reinecke, Erich; and Ruhnau, Gerhard, to WABCO Westinghouse Fahrzeugbremsen GmbH. Protection circuit for detecting undervoltages in the electrical charging system of a motor vehicle. 4,661,910, 4-28-87, Cl. 364-426.000.

Reinecke, Erich, to Wabco Westinghouse Fahrzeugbremsen GmbH. Apparatus for the measuring and/or controlling of the wear on a component. 4,674,326, 6-23-87, Cl. 73-129.000.

Reinecke, Erich, to WABCO Westinghouse Fahrzeugbremsen GmbH. Motor vehicle brake pressure-regulating apparatus. 4,685,745, 8-11-87, Cl. 303-100.000.

Reinecke, Erich: *See*—
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Bockmann, Klaus; Jager, Gerhard; Brandes, Wilhelm; and Reinecke, Paul, 4,650,809, Cl. 514-383.000.
Buchel, Karl H.; Kraatz, Udo; Stetter, Jorg; Reinecke, Paul; and Brandes, Wilhelm, 4,659,723, Cl. 514-341.000.
Fest, Christa; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,716,176, Cl. 514-477.000.
Forster, Heinz; Diehr, Hans-Joachim; Maurer, Fritz; Klauke, Erich; Eue, Ludwig; Santel, Hans-Joachim; Schmidt, Robert R.; Reinecke, Paul; and Hanssler, Gerd, 4,708,731, Cl. 71-90.000.
Gajowski, Jan; Regel, Erik; Buchel, Karl H.; Brandes, Wilhelm; and Reinecke, Paul, 4,657,920, Cl. 514-365.000.
Gayer, Herbert; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,689,343, Cl. 514-445.000.
Heinemann, Ulrich; Knops, Hans-Joachim; Steinbeck, Karl; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,642,312, Cl. 514-364.000.
Holmwood, Graham; Kramer, Wolfgang; Buchel, Karl H.; Reinecke, Paul; and Brandes, Wilhelm, 4,645,767, Cl. 514-383.000.
Holmwood, Graham; Stetter, Jorg; Buchel, Karl H.; Reinecke, Paul; Brandes, Wilhelm; and Scheinpflug, Hans, 4,672,134, Cl. 549-551.000.
Ingendoh, Axel; Berschauer, Friedrich; Becker, Benedikt; Stendel, Wilhelm; Homeyer, Bernhard; Scheer, Martin; de Jong, Anno; Hanssler, Gerd; and Reinecke, Paul, 4,678,797, Cl. 514-378.000.
Jelich, Klaus; Kramer, Wolfgang; Brandes, Wilhelm; Hanssler, Gerd; and Reinecke, Paul, 4,666,933, Cl. 514-404.000.
Kramer, Wolfgang; Buchel, Karl H.; Holmwood, Graham; Regel, Erik; Reinecke, Paul; and Brandes, Wilhelm. 4,639,462, Cl. 514-383.000.
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Kramer, Wolfgang; Weissmuller, Joachim; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, 4,713,379, Cl. 514-212.000.
Marzolph, Gerhard; Blank, Heinz U.; Reinecke, Paul; Brandes, Wilhelm; and Hanssler, Gerd, 4,666,935, Cl. 514-424.000.
Oeckl, Siegfried; Reinecke, Paul; Brandes, Wilhelm; Kuck, Karl-Heinz; Paulus, Wilfried; and Genth, Hermann, 4,661,632, Cl. 564-217.000.
Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuhle, Engelbert; Fuhrer, Wolfgang; Hanssler, Gerd; Brandes, Wilhelm; and Reinecke, Paul, 4,713,389, Cl. 514-373.000.
Sasse, Klaus; Brandes, Wilhelm; Hanssler, Gerd; Reinecke, Paul; Schmitt, Hans-Georg; and Paulus, Wilfried, 4,663,327, Cl. 514-275.000.

Reinehr, Dieter; and Pfeifer, Josef, to Ciba-Geigy Corporation. Us substituted 1,11-diamino-undeca-3,7-dienes and processes for the preparation. 4,658,066, 4-14-87, Cl. 564-490.000.

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Artz, Klaus; Meyer, Hans R.; Reinehr, Dieter; and Weber, Kur 4,684,744, Cl. 558-388.000.
Boger, Manfred; Reinehr, Dieter; De Sousa, Bernardo; an Schmid, Werner, 4,664,673, Cl. 8-490.000.
Farooq, Saleem; Reinehr, Dieter; and Schmid, Werner, 4,681,59 Cl. 8-128.00R.

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Reineke, Karl E., to Stauffer Chemical Company. Method of preparing dialkylphenylphosphonates. 4,659,854, 4-21-87, Cl. 558-98.000.

Reinelt, Karlheinz; and Schwenzer, Michael, to Rheinmetall GmbH Propellant-charge module. 4,702,167, 10-27-87, Cl. 102-282.000.

Reinelt, Karlheinz: *See*—
Mueller, Dietmar; and Reinelt, Karlheinz. 4,709,636, C 102-431.000.

Reinelt, Werner: *See*—
Krieger, Karl; and Reinelt, Werner, 4,676,698, Cl. 405-302.000.
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Reineman, Richard G. Monocoque building shell. 4,700,514, 10-20-87 Cl. 52-86.000.

Reinemuth, George H.: *See*—
Connor, Mark J.; Reinemuth, George H.; and Cleveland, Richard S., 4,693,109, Cl. 72-456.000.

Reinen, Richard E. Spacing and support construction membe 4,669,235, 6-2-87, Cl. 52-98.000.

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Reiner Brach Import-Export: *See*—
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Spitznas, Manfred; Reiner, Josef; Veit, Wolfgang; and Kirchhuebel Rainer, 4,710,000, Cl. 350-516.000.

Reiner, Per L., to Molnlycke AB. Web forming method and device 4,675,078, 6-23-87, Cl. 162-344.000.

Reiner, Roland; and Weiss, Urs, to Hoffmann-La Roche Inc. Acyl derivatives. 4,680,408, 7-14-87, Cl. 548-100.000.

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Hofer, Herbert, 4,660,717, Cl. 206-338.000.

Reiners, Jurgen; Winkel, Jens; Klauke, Erich; Suling, Carlhans; an Podszun, Wolfgang, to Bayer Aktiengesellschaft. (Meth)-acrylic acid esters and their use. 4,665,217, 5-12-87, Cl. 560-160.000.

Reinert, Gerhard; Huber-Emden, Helmut; and Back, Gerhard, to Ciba-Geigy Corporation. Process for photochemical stabilization of non-dyed and dyed polyamide fibre, material and mixtures thereof 4,655,783, 4-7-87, Cl. 8-115.660.

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Reinert, Gerhard; Schutz, Hans U.; and Back, Gerhard, to Ciba-Geigy Corporation. Process for the photochemical stabilization of synthetic polyamide fibre materials with water-soluble copper complex dyes 4,704,133, 11-3-87, Cl. 8-442.000.

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Graf, Gregor; Holzle, Gerd; and Reinert, Gerhard, 4,648,992, C 540-124.000.

Reinfeld, Nyles V. Apparatus for processing and recovery of the meta containers from trash. 4,667,832, 5-26-87, Cl. 209-636.000.

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Keiser, Bernhard E., 4,668,958, Cl. 343-916.000.
McKittrick, David P.; Neel, Thomas C.; and Carey, John M 4,653,962, Cl. 405-286.000.
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Reinhard, Donnie K.: *See—*
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Unroe, Marilyn R.; Reinhardt, Bruce A.; and Arnold, Fred E., 4,667,002, Cl. 526-259.000.
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Reinhardt, Chrys J., to Whirlwind Music Distributors, Inc. Plug for audio device. 4,647,135, 3-3-87, Cl. 339-103.00R.

Reinhardt, Eugen: *See—*
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Reinhardt, Jens-Uwe: *See—*
Kicherer, Robert; Krist, Josef; and Reinhardt, Jens-Uwe, 4,699,269, Cl. 206-320.000.

Reinhardt, Karen A.: *See—*
Elkins, Patricia C.; Chan, Yau-Wai D.; Chi, Keh-Fei C.; Reinhardt, Karen A.; Tang, Rebecca Y.; and Zwingman, Robert L., 4,676,867, Cl. 156-643.000.

Reinhardt, Peter; Nikolaus, Heinrich; and Metzner, Frank, to Mannesmann Rexroth GmbH. Control means for a drive system with impressed pressure. 4,688,380, 8-25-87, Cl. 60-420.000.

Reinhardt, Peter: *See—*
Morgenstern, Bernd; Weigend, Helmut; and Reinhardt, Peter, 4,690,564, Cl. 356-445.000.
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Reinhardt, Rudolf. Assembly for mounted components with snap-action. 4,710,853, 12-1-87, Cl. 361-391.000.

Reinhardt, Wilhelm; and Lipp, Helmut, to ebm Elektrobau Mulfingen GmbH & Co. Protection circuit for stalling protection in commutatorless direct current motors. 4,694,371, 9-15-87, Cl. 361-23.000.

Reinhart, Charles W.; and Mauldin, Robert H., to Whittaker Corporation. Hermetically sealed connector device. 4,691,080, 9-1-87, Cl. 174-88.00R.

Reinhart, Mark R.: *See—*
Anderson, Wayne H.; Larson, David E.; and Reinhart, Mark R., 4,707,750, Cl. 360-60.000.

Reinhart, Stanley I. Scroll type calendar display device. 4,646,453, 3-3-87, Cl. 40-117.000.

Reinhold, Donald F.; Utne, Torleif; and Abramson, Newton L.; to Merck & Co., Inc. Process for L-dopa. 4,716,246, 12-29-87, Cl. 562-446.000.

Reinhold, Eberhard, to Friedr. Dick GmbH. Handle for tools having a converging tang. 4,646,405, 3-3-87, Cl. 29-80.000.

Reinhold, Klaus. Roll for processing a web or strip of material. 4,683,627, 8-4-87, Cl. 29-110.000.

Reinhold, Klaus. A method for making a roll for processing a web or strip of material. 4,711,291, 12-8-87, Cl. 164-98.000.

Reinhold, Ralph R.: *See—*
Pinson, George T.; Reinhold, Ralph R.; and Finley, Roland L., 4,656,349, Cl. 250-203.00R.

Reinholtz, Richard B. Restaurant bus. 4,666,204, 5-19-87, Cl. 296-24.00R.

Reinholz, Orville A. Self-standing golf bag. 4,655,346, 4-7-87, Cl. 206-315.600.

Reini, George I.: *See—*
Boecker, Wolfgang D. G.; and Reini, George I., 4,692,418, Cl. 501-90.000.

Reini, Matti: *See—*
Pyhalammi, Seppo; and Reini, Matti, 4,689,805, Cl. 375-11.000.

Reinicke, Robert H., to Eaton Corporation. Disposable refill unit for implanted medication infusion device. 4,684,365, 8-4-87, Cl. 604-126.000.

Reinicke, Robert H.; and Yamato, Lance M., to Eaton Corporation. Implanted medication infusion device. 4,715,852, 12-29-87, Cl. 604-131.000.

Reiniger, Jurgen, to Linotype GmbH. Method for the synchronization of a moveable material web and an optical deflection path. 4,704,698, 11-3-87, Cl. 364-523.000.

Reinish, Martin D.: *See—*
Parr, Richard S.; Ramachandran, Pallassana N.; Grey, Seymour; and Reinish, Martin D., 4,699,729, Cl. 252-174.250.

Reinke, James D., to Honeywell Inc. Voltage-to-current converter. 4,675,594, 6-23-87, Cl. 323-317.000.

Reinke, Ronald E.: *See—*
Devall, Jeffrey E.; and Reinke, Ronald E., 4,679,580, Cl. 137-39.000.

Reinkemeyer, Leo R., to Total Engineering and Research Company. Method for regeneration of resid cracking catalyst. 4,664,778, 5-12-87, Cl. 208-113.000.

Reinker, Joseph F., Jr.: *See—*
Fournier, Paul J. E.; and Reinker, Joseph F., Jr., 4,637,640, Cl. 285-319.000.
Fournier, Paul J. E.; and Reinker, Joseph F., Jr., 4,703,784, Cl. 141-198.000.

Reinking, Klaus; Idel, Karsten; and Ostlinning, Edgar, to Bayer Aktiengesellschaft. Mono- and biaxially drawable film of polyphenylene sulphide. 4,665,156, 5-12-87, Cl. 528-388.000.

Reinking, Klaus: *See—*
Zecher, Wilfried; Reinking, Klaus; and Kleiner, Frank, 4,640,970, Cl. 528-73.000.

Reinmold, Heinz-Josef; Mucha, Horst; and Friedrich, Heinz-Dieter, to Saint Gobain Vitrage. Apparatus for controlling position of grinding tool. 4,648,210, 3-10-87, Cl. 51-165.770.

Reinmold, Heinz-Josef: *See—*
Halberschmidt, Friedrich; Reinmold, Heinz-Josef; Schwarzenberg, Norbert; Radermacher, Herbert; Blank, Kurt; Audi, Josef; and Vanaschen, Luc, 4,682,997, Cl. 65-106.000.

Reinmuller, Johannes. Plastic implant. 4,713,073, 12-15-87, Cl. 623-8.000.

Reinmuth, Klaus: *See—*
Hunold, Klaus; Lipp, Alfred; and Reinmuth, Klaus, 4,634,640, Cl. 428-704.000.
Hunold, Klaus; Lipp, Alfred; Reinmuth, Klaus; Arnold, Peter; and Napholcz, Johannes, 4,687,655, Cl. 423-344.000.
Lipp, Alfred; Reinmuth, Klaus; and von Struensee, Detlef, 4,684,480, Cl. 252-478.000.

Reinold, Martin; and Schmidt, Peter, to Robert Bosch GmbH. System and method to control energy supply to an electrically heated zone. 4,669,430, 6-2-87, Cl. 123-179.0BG.

Reinsch, Stephen J.: *See—*
Koda, Nobuo J.; Bleha, William P., Jr.; Giehll, Harry W.; Reinsch, Stephen J.; and Robusto, Paul F., 4,650,286, Cl. 350-331.00R.

Reinschmidt, Robert M.; and Plummer, Wylie J., to Trilogy Systems Corporation. Strobed access semiconductor memory system. 4,663,741, 5-5-87, Cl. 365-189.000.

Reinshagen, John H., to Pfizer Inc. Process and composition for improved corrosion resistance. 4,662,939, 5-5-87, Cl. 75-246.000.

Reinshagen, John H., to Pfizer Inc. Powder metallurgical process for manufacturing copper-nickel-tin spinodal alloy articles. 4,681,629, 7-21-87, Cl. 75-246.000.

Reinstein, Fred M.: *See—*
Proctor, Rudy R.; and Reinstein, Fred M., 4,682,734, Cl. 239-315.000.

Reinten, Hans, to Oce-Nederland B.V. Means and method of symmetrical energization of individual array LED's for image exposure. 4,712,116, 12-8-87, Cl. 346-107.00R.

Reipur, John. Toothpick. 4,651,760, 3-24-87, Cl. 132-89.000.

Reis, August K.; Fiala, Michael; and Heimann, Jochen R. Microwave-osimeter. 4,648,262, 3-10-87, Cl. 73-57.000.

Reis, Daniel S., to Leahy, Raymond W. Bow hip rest. 4,674,472, 6-23-87, Cl. 124-89.000.

Reis, Herbert: *See—*
Greenfeld, Albert R.; Reis, Herbert; and Tittmann, Bernhard R., 4,698,058, Cl. 604-266.000.

Reis, Mario J. J. M. P. D.; and Couper, John, to Burroughs Corporation. Equipment enclosure fastening means. 4,673,100, 6-16-87, Cl. 220-324.000.

Reis, Oswald: *See—*
Brunken, Gerd; Gob, Werner; and Reis, Oswald, 4,685,549, Cl. 192-58.00B.

Reise, Terrence F.: *See—*
McVeigh, James B., Jr.; Reise, Terrence F.; and Taylor, Alwyn H., 4,707,421, Cl. 429-94.000.

Reiser, Arthur G.: *See—*
Judge, Norman R.; Judge, Edward E., Jr.; and Reiser, Arthur G., 4,682,444, Cl. 51-154.000.

Reiser, Carl A.; and Maricle, Donald L., to United States of America, Energy. Electrolyte matrix in a molten carbonate fuel cell stack. 4,659,635, 4-21-87, Cl. 429-41.000.

Reiser, Wolf; Draber, Wilfried; Buchel, Karl H.; Lurssen, Klaus; Frohberger, Paul-Ernst; and Paul, Volker, to Bayer Aktiengesellschaft. 1-Vinyltriazole compounds and plant growth and fungicidal compositions. 4,647,302, 3-3-87, Cl. 71-92.000.

Reiser, Wolf: *See—*
Kramer, Wolfgang; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, 4,668,700, Cl. 514-467.000.
Kramer, Wolfgang; Weissmuller, Joachim; Reiser, Wolf; Berg, Dieter; Brandes, Wilhelm; and Reinecke, Paul, 4,713,379, Cl. 514-212.000.

Reisfeld, Ralph A.; and Schulz, Gregor, to Scripps Clinic and Research Foundation. Monoclonal antibody directed to human ganglioside GD_2. 4,675,287, 6-23-87, Cl. 435-7.000.

Reisfeld, Renata; and Zusman, Rivka, to Yissum Research Development Company of the Hebrew University of Jerusalem. Solar concentrator plates. 4,661,649, 4-28-87, Cl. 136-247.000.

Reishauer AG: *See—*
Rebsamen, Roland, 4,712,048, Cl. 318-85.000.
Wirz, Walter, 4,635,404, Cl. 51-105.0HB.
Wirz, Walter, 4,697,387, Cl. 51-88.000.
Zubler, Ernst, 4,650,378, Cl. 409-12.000.

Reising, George S.; and Dragoo, Jerry L., to Procter & Gamble Company, The. Disposable diapers with unitary waistshield and elastically expansible waistbands. 4,681,580, 7-21-87, Cl. 604-385.00A.

Reisinger, Robert R.: *See—*
Moro, Dominik J.; Reisinger, Robert R.; Larson, James M.; and Kuhn, Roscoe E., 4,706,570, Cl. 105-163.200.

Reisman, Arnold; and Osburn, Carlton M., to Microelectronics Center of North Carolina. Method of interconnecting wiring planes. 4,667,404, 5-26-87, Cl. 29-847.000.

Reisner, Robert J., to Para-Tech Industries, Inc. Weighted golf grip. 4,690,407, 9-1-87, Cl. 273-81.00A.
Reiss, Alan, to World Gaming Consultants. Device for obtaining subsets from a field of characters. 4,712,796, 12-15-87, Cl. 273-148.00R.
Reiss, Harald; and Ziegenbein, Botho, to Brown, Boveri & Cie AG. Thermal insulation. 4,692,363, 9-8-87, Cl. 428-36.000.
Reiss, Heinz: *See*—
Brede, Uwe; Horr, Alfred; and Reiss, Heinz, 4,674,405, Cl. 102-202.000.
Reiss, John R.: *See*—
Rumsey, Steven C.; Reiss, John R.; and Cymbor, Wayne P., 4,659,149, Cl. 303-3.000.
Reiss, Kurt; Niederstatter, Walter; Stroszynski, Joachim; Bohm, Dieter; and Sprintschnik, Gerhard, to Hoechst Aktiengesellschaft. Sheet material of mechanically and electrochemically roughened aluminum, as a support for offset-printing plates. 4,655,136, 4-7-87, Cl. 101-459.000.
Reiss, Kurt; and Niederstatter, Walter, to Hoechst Aktiengesellschaft. Radiation-sensitive printing plates with base which consists of an aluminum alloy having iron and manganese. 4,672,022, 6-9-87, Cl. 430-278.000.
Reissenweber, Gernot: *See*—
Sauerwald, Manfred; Dockner, Toni; Rohr, Wolfgang; and Reissenweber, Gernot, 4,670,567, Cl. 549-13.000.
Reissmann, Gunther: *See*—
Nees, Friedbert; Werle, Peter; Reissmann, Gunther; and Merk, Wolfgang, 4,667,044, Cl. 549-539.000.
Reist, Walter, to Ferag AG. Apparatus for stacking flat products, especially printed products arriving in an imbricated stream. 4,666,143, 5-19-87, Cl. 271-204.000.
Reist, Walter, to Ferag AG. Apparatus for picking-up and further transporting, folded printed products, especially signatures or sheets, from a conveying device. 4,678,174, 7-7-87, Cl. 270-54.000.
Reit, Henry: *See*—
Bystrom, Karl; Karlsson, Erik; Kihlberg, Gunnar; and Reit, Henry, 4,646,010, Cl. 324-208.000.
Reitberger, Rudolf: *See*—
Erdt, Wolfgang; Reitberger, Rudolf; and Stocker, Erwin, 4,684,303, Cl. 409-235.000.
Reitemeyer, Paul: *See*—
Predohl, Wilhelm; Beisemann, Heinz; and Reitemeyer, Paul, 4,695,236, Cl. 425-131.100.
Reifenhauser, Hans; Reitemeyer, Paul; Krumm, Klemens; and Beisemann, Heinz, 4,708,618, Cl. 425-133.500.
Reiter, Alois: *See*—
Habrich, Reiner; Bauer, Manfred; and Reiter, Alois, 4,715,795, Cl. 417-568.000.
Reiter, Ferdinand, to Robert Bosch GmbH. Polarized electromagnet for a fuel injection valve. 4,660,011, 4-21-87, Cl. 335-230.000.
Reiter, John P. Elongated sanding device. 4,676,031, 6-30-87, Cl. 51-392.000.
Reiter, Leopold M.: *See*—
Lindenmeier, Heinz; Reiter, Leopold M.; and Flachenecker, Gerhard, 4,667,342, Cl. 455-150.000.
Reiter, Norbert: *See*—
Kolaska, Johannes; and Reiter, Norbert, 4,684,405, Cl. 75-240.000.
Reiter, Ralph H., to Pony Industries, Inc. Production of homogeneous molded golf balls. 4,688,801, 8-25-87, Cl. 273-218.000.
Reiter, Stephen E.: *See*—
Drake, Charles A.; and Reiter, Stephen E., 4,634,794, Cl. 560-245.000.
Reiter, Stuart L., to United Water Resources, Inc. Remotely controlled bypass for automatic watering system. 4,684,920, 8-4-87, Cl. 340-310.00A.
Reiter, Wm. Bruce: *See*—
Heaney, Dennis J.; and Reiter, Wm. Bruce, 4,660,734, Cl. 220-74.000.
Reiterer, Walther, to Durst Phototechnik GmbH. Measuring device for selecting the filter in photographic enlarging or copying apparatuses. 4,678,319, 7-7-87, Cl. 355-38.000.
Reiterman, Lee: *See*—
Noggle, Kenneth G.; and Reiterman, Lee, 4,662,254, Cl. 82-36.00B.
Reith, Walter: *See*—
Walter, Lothar; and Reith, Walter, 4,635,331, Cl. 29-148.40R.
Reithler, Jean-Claude, to Office de Distribution d'Appareils Medicaux. Portable electromedical device. 4,653,474, 3-31-87, Cl. 128-1.00R.
Reithofer, Jurgen: *See*—
Rodi, Anton; Reithofer, Jurgen; and Blaser, Peter, 4,659,349, Cl. 55-385.00C.
Reitmeier, Glenn A.: *See*—
Strolle, Christopher H.; and Reitmeier, Glenn A., 4,661,850, Cl. 358-140.000.
Reitsamer, Peter: *See*—
Stork, Kurt; Reitsamer, Peter; and Schultz, Richard, 4,704,080, Cl. 425-314.000.
Reitsema, Harold J., to Ball Corporation. Optically coupled shaft angle encoder. 4,709,146, 11-24-87, Cl. 250-231.05E.
Reitter, Walter L.: *See*—
McCoy, Richard A.; Reitter, Walter L.; and Lyle, Phra D., 4,656,084, Cl. 428-266.000.
Reitz, David B.: *See*—
Miller, William H.; Reitz, David B.; and Pulwer, Mitchell J., 4,657,705, Cl. 260-502.50F.
Reitz, Richard J.: *See*—
Hoffman, Fred W.; and Reitz, Richard J., 4,646,889, Cl. 192-70.120.
Reitz, Robert R., to Du Pont de Nemours, E. I., and Company. Ethylene copolymers with enhanced fire resistant properties. 4,678,807, 7-7-87, Cl. 252-609.000.
Rejc, Gabriel, to EFAFLEX Transport-und-Lager-Technik GmbH. Panel-like structural component. 4,655,019, 4-7-87, Cl. 52-475.000.
Rejs Co., Inc.: *See*—
Barron, Edward J., 4,683,726, Cl. 62-503.000.
Rekers, Louis J.; Speca, Anthony N.; and Mayhew, Harry W., to National Distillers and Chemical Corporation. Deactivator for olefin polymerization catalyst. 4,649,128, 3-10-87, Cl. 502-109.000.
Rekers, Louis J.: *See*—
Shelly, Javan; and Rekers, Louis J., 4,656,151, Cl. 502-113.000.
Rekewitz, Rudolf. Housing cover for printers. 4,641,982, 2-10-87, Cl. 400-690.100.
Relenyi, Attila G., to Dow Chemical Company, The. Antimicrobial cation exchange composition. 4,661,344, 4-28-87, Cl. 424-79.000.
Reliability Incorporated: *See*—
Gussman, Robert L., 4,684,182, Cl. 439-68.000.
Reliable Security Systems, Inc.: *See*—
Kelly, Michael A.; Beigel, Bruce G.; and Logan, Emmanuel L., Jr., 4,703,962, Cl. 292-251.500.
Logan, Emanuel L.; Kelly, Michael A.; and Beigel, Bruce G., 4,652,028, Cl. 292-251.500.
Reliance Comm/Tec Corporation: *See*—
Bonnesen, John S.; and Sporer, Timothy J., 4,680,665, Cl. 361-120.000.
Brey, William A.; and Hilbert, Steven R., 4,665,546, Cl. 379-327.000.
Coulombe, David J., 4,702,551, Cl. 350-96.200.
Fisher, Thomas M.; and Gehalo, David J., 4,670,626, Cl. 178-1.000.
Kuwata, Yutaka; and Nerone, Louis R., 4,691,273, Cl. 363-132.000.
Leschinger, Matt, 4,661,651, Cl. 174-38.000.
Reliance Electric Company: *See*—
Corkran, William M.; Koeth, Herbert A.; and Pugsley, L. James, 4,636,778, Cl. 340-648.000.
Dawson, Robert H., 4,698,031, Cl. 439-863.000.
Griffen, Neil C., 4,657,097, Cl. 177-211.000.
Griffen, Neil C., 4,691,290, Cl. 364-567.000.
Heshmat, Hooshang, 4,674,894, Cl. 384-406.000.
Martinie, Howard, 4,687,351, Cl. 384-541.000.
Mayszak, Michael T., 4,646,395, Cl. 24-135.00R.
Milfs, Wallace L.; and West, Charles A., 4,664,598, Cl. 416-180.000.
Nerone, Louis R., 4,648,017, Cl. 363-28.000.
Nisley, Donald L., 4,676,670, Cl. 384-247.000.
Rakhit, Ajit K., 4,690,009, Cl. 74-409.000.
Suffi, Louis, 4,652,070, Cl. 339-97.00P.
Reliance Universal, Inc.: *See*—
Nason, Dale L.; Wilson, Neil A.; and Gray, Richard L., 4,656,202, Cl. 522-89.000.
Nason, Dale L.; and Gray, Richard L., 4,686,108, Cl. 427-27.000.
Relihan, Gary F.: *See*—
Meccariello, Thomas V.; and Relihan, Gary F., 4,703,496, Cl. 378-99.000.
Relis, Joseph: *See*—
Holtzman, Abraham M.; and Relis, Joseph, 4,657,632, Cl. 156-659.100.
Holtzman, Abraham M.; and Relis, Joseph, 4,715,894, Cl. 106-1.220.
Relis, Matityahu; and Ledbetter, William B., to Texas A&M University System, The. Apparatus for forming compacts from solid particles. 4,666,389, 5-19-87, Cl. 425-78.000.
Rellermeyer, Heinrich; and Kaas, Werner, to Thyssen Aktiengesellschaft. Apparatus for preparing binder-free hot-briquets. 4,645,184, 2-24-87, Cl. 266-81.000.
Rellick, Joseph R., to Du Pont de Nemours, E. I., and Company. Dielectric compositions and method of forming a multilayer interconnection using same. 4,655,864, 4-7-87, Cl. 156-89.000.
Rellis, Daniel, Jr.: *See*—
Knoepke, John R.; Pielet, Howard M.; Frank, Larry A.; and Rellis, Daniel, Jr., 4,667,715, Cl. 164-453.000.
Relyea, Robert G., to Nalge Company. Plastic filter units having a weld cellulose filter. 4,702,834, 10-27-87, Cl. 210-321.780.
Rem Chemicals, Inc.: *See*—
Zobbi, Robert G.; and Michaud, Mark, 4,705,594, Cl. 156-637.000.
Rem Manufacturing Ltd.: *See*—
Anderson, Mike K.; DieBold, Barry L.; Cutforth, Norman F.; and Cutforth, Dean J., 4,662,800, Cl. 406-53.000.
Remacle, Roger E. M.; and Verbeeck, Alain A. J., to Labofina, S.A. Treating spent filter media. 4,711,728, 12-8-87, Cl. 210-772.000.
Remaks, William J., to Weyerhaeuser Company. Drain fitment for bulk containers. 4,706,850, 11-17-87, Cl. 222-105.000.
Rembaum, Alan, to California Institute of Technology. Polyacrolein microspheres. 4,678,814, 7-7-87, Cl. 522-175.000.
Rembaum, Alan: *See*—
Chang, Manchium; Colvin, Michael S.; Rembaum, Alan; and Richards, Gil F., 4,707,523, Cl. 525-372.000.
Rembold, Helmut; and Teegen, Walter, to Robert Bosch GmbH. Magnetic valve, in particular a fuel quantity control valve. 4,646,976, 3-3-87, Cl. 239-585.000.
Rembold, Helmut; Ruoff, Manfred; and Teegen, Walter, to Robert Bosch GmbH. Valve control arrangement for internal combustion engines with reciprocating pistons. 4,674,451, 6-23-87, Cl. 123-90.160.
Rembold, Helmut: *See*—
Geringer, Bernhard; Linder, Ernst; Rembold, Helmut; and Ruoff, Manfred, 4,671,221, Cl. 123-90.160.
Linder, Ernst; and Rembold, Helmut, 4,653,447, Cl. 123-357.000.

Linder, Ernst; Rembold, Helmut; Straubel, Max; and Teegen, Walter, 4,690,373, Cl. 251-129.020.
Polach, Wilhelm; and Rembold, Helmut, 4,690,374, Cl. 251-129.020.

Rembold, William T.: *See—*
Carr, Christopher; and Rembold, William T., 4,714,630, Cl. 427-207.100.

Remco: *See—*
Glesmann, Herbert C.; and Thomas, Ronald G., 4,642,604, Cl. 340-60.000.

Remec, Matthew J. Thermal level detector for conductive or nonconductive liquids or gases. 4,638,286, 1-20-87, Cl. 340-52.00F.

Remeha Fabrieken B.V.: *See—*
Krans, Peter; and Meuleman, Hermanus J., 4,679,528, Cl. 122-367.00C.

Remenyi nee Korodi, Zsuzsa: *See—*
Szekely, Tibor; Tyihak, Erno ; Mincsovics, Emil; Remenyi nee Korodi, Zsuzsa; Peterfi, Laszlo; Kemeny, Gabor; and Takacs, Gabor, 4,671,871, Cl. 210-198.300.

Remesy, Christian; and Demigne, Christian, to Institut National de la Recherche Agronomique. Rehydrating composition which can be used especially in the feeding of young animals which can no longer digest milk normally, and a complement for its preparation. 4,652,454, 3-24-87, Cl. 426-74.000.

Remillard, Rheal; and Molzahn, Herbert W., to MacDon Industries Ltd. Mower with two sickle bars. 4,660,361, 4-28-87, Cl. 56-297.000.

Remillard, Robert E.: *See—*
Korwin, David A.; and Remillard, Robert E., 4,662,117, Cl. 51-5.00R.

ReMine, Walter J.: *See—*
Dufresne, Joel R.; ReMine, Walter J.; and King-Smith, Eric A., 4,688,574, Cl. 128-421.000.
King-Smith, Eric A.; ReMine, Walter J.; and Dufresne, Joel R., 4,690,145, Cl. 128-421.000.

Remington Products, Inc.: *See—*
Baker, Richard I.; Wegrzyn, Richard J.; and Szymansky, Edward, 4,666,638, Cl. 261-26.000.
Locke, David R.; and Miska, Aivars, 4,700,476, Cl. 30-43.910.
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Remington, Richard C., to Presto Lock, Inc. Luggage latching system. 4,677,832, 7-7-87, Cl. 70-67.000.

Remington, Scott; and Martino, William L., Jr., to Motorola, Inc. Row decoder. 4,661,724, 4-28-87, Cl. 307-449.000.

Remley, Gilbert W.: *See—*
Crew, Albert W.; Ghrist, William D., III; and Remley, Gilbert W., 4,692,299, Cl. 376-216.000.

Remley, Herbert D., to Eastman Kodak Company. Elements having hydrophilic layers containing hydrophobes in polymer particles. 4,684,605, 8-4-87, Cl. 430-537.000.

Remley, Kenneth H., to American Cyanamid Company. Low formaldehyde release reactant. 4,652,268, 3-24-87, Cl. 8-185.000.

Remmel, Hans: *See—*
Schwarze, Werner; Wolff, Siegfried; Remmel, Hans; and Lambertz, Horst, 4,673,741, Cl. 544-209.000.

Remmel, Jochen; and Buchinger, Robert, to Diehl GmbH & Co. Elastic rubber bearing with hydraulic damping. 4,679,776, 7-14-87, Cl. 267-140.100.

Remmel, Wayne R.; and Steinhardt, Mark S., to Regal Ware, Inc. Rolled beaded edge oil core fry pan. 4,667,085, 5-19-87, Cl. 219-439.000.

Remmele Engineering, Inc.: *See—*
Zastrow, Thomas S., 4,691,906, Cl. 269-48.100.

Remold, Heinz G., to Brigham & Women's Hospital. Purified migration inhibitory factor also having colony stimulating factor activity. 4,708,937, 11-24-87, Cl. 435-188.000.

Remond, Georges: *See—*
Vincent, Michel; Remond, Georges; and Laubie, Michel, 4,644,008, Cl. 514-412.000.

Remote Systems, Inc.: *See—*
Pailen, William; and Harper, Jim L., 4,652,990, Cl. 364-200.000.

Remote Technology, Inc.: *See—*
Walker, Kenneth L.; and White, John R., 4,666,200, Cl. 294-110.200.

Remp, Stephen E.; Ewen, Rodger M. H.; and Cumming, Norman S., to Ramco Oil Services. Pipe cleaning or treating plant. 4,704,986, 11-10-87, Cl. 118-318.000.

Remp, Thomas: *See—*
Remp, Thomas E., Jr.; Dreyfuss, Wilfried; and Muller, Kurt, 4,706,822, Cl. 211-59.400.

Remp, Thomas E., Jr.; Dreyfuss, Wilfried; and Muller, Kurt, to Dreyfuss, Wilfried; and Remp, Thomas. Frame for the transport and for the storage of pipes. 4,706,822, 11-17-87, Cl. 211-59.400.

Remp, Thomas E., Jr.: *See—*
Dreyfuss, Wilfried; Remp, Thomas E., Jr.; and Muller, Kurt, 4,662,402, Cl. 138-96.00T.

Rempel, Dieter: *See—*
Kohler, Karl-Heinz; Lindner, Christian; Rempel, Dieter; Weber, Gunter; Ott, Karl-Heinz; and Binsack, Rudolph, 4,666,972, Cl. 524-504.000.

Rempel, Robert C.: *See—*
Petersen, Alan B.; Rempel, Robert C.; Lastovka, Joseph B.; Head, David F.; and Carlson, Lee R., 4,677,640, Cl. 372-103.000.

Rempfler, Hermann: *See—*
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Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gotzi, Karl; Kristinsson, Haukur; Muller, Beat; Muntwyler, Rene ; Pachlatko, Johannes P.; Rempfler, Hermann; Schurter, Rolf; and Szczepanski, Henry, 4,715,883, Cl. 71-90.000.
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Rempt, Raymond D., to Boeing Company, The. Method and apparatus for producing a monatomic beam of ground-state atoms. 4,686,022, 8-11-87, Cl. 204-157.410.

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Wagner, Rudolf, 4,642,002, Cl. 408-105.000.
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Wagner, Rudolf, 4,676,001, Cl. 30-393.000.

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Remy, David C., to Merck & Co., Inc. Benzocycloheptapyridone compounds for treating congestive heart failure. 4,639,457, 1-27-87, Cl. 514-290.000.

Remy, Joel, to Adret Electronique. Frequency synthesizer having first phase locked loop frequency multiplied by near unity in second phase locked loop. 4,673,891, 6-16-87, Cl. 331-2.000.

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Gerling, John E.; and Ren, Ji T., 4,714,811, Cl. 219-10.55F.

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Cosentino, Louis C.; and Nelson, Wayne L., 4,664,891, Cl. 422-269.000.
Lee, Jeffrey A.; and Martinez, Felix J., 4,645,494, Cl. 604-175.000.
Martinez, Felix J.; Fuller, Larry E.; and Irmiter, Richard J., 4,645,645, Cl. 422-46.000.

Renals, Martin: *See—*
Rose, Michael A.; and Renals, Martin, 4,682,030, Cl. 250-338.000.

Renan, Patrice: *See—*
Badin, Suzan; Moulin, Jean-Francois; Delattre, Luc; and Renan, Patrice, 4,640,055, Cl. 51-101.0LG.

Renard, Andre M.: *See—*
Richards, Gerald P.; and Renard, Andre M., 4,684,897, Cl. 328-162.000.

Renard, Antoine: *See—*
Katz, Maurice; and Renard, Antoine, 4,702,356, Cl. 188-315.000.

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Besson, Raymond; Delaite, Richard; Genestier, Gerard; Maitre, Pierre; Renard, Georges; Thiebaud, Daniel; and Valentin, Jean-Pascal, 4,705,982, Cl. 310-356.000.

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Dall, Didier; Euzen, Jean-Paul; Patoux, Remy; and Renard, Pierre, 4,659,455, Cl. 208-152.000.
Le Page, Jean-Francois; Billon, Alain; Morel, Frederic; Renard, Pierre; Biedermann, Jean-Michel; Laborde, Michel; and Bousquet, Jacques, 4,715,946, Cl. 208-45.000.

Renata AG: *See—*
Wyser, Paul; and Uebelhart, Heinrich, 4,658,151, Cl. 307-66.000.

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Renaud, Jean-Marie; Gambs, Paul; Perrot, Jean-Claude; and Taillebois, Jacques, to M.C.B. Optical position locating device. 4,713,541, 12-15-87, Cl. 250-231.0SE.

Renaud, Juan E. Celery peeling holder. 4,682,764, 7-28-87, Cl. 269-3.000.

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Renaud, Merle A.: *See—*
Haley, Paul F.; Junk, Brian S.; Renaud, Merle A.; and Rentmeester, Paul C., 4,686,834, Cl. 62-209.000.
Han, Doyoung; and Renaud, Merle A., 4,689,967, Cl. 62-201.000.
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Renaud, Pierre; and Lassiaz, Philippe, to Valeo. Clutch release bearing assembly. 4,664,241, 5-12-87, Cl. 192-98.000.

Renaud, Roger. Refrigeration block. 4,674,296, 6-23-87, Cl. 62-389.000.

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Renault Automation: *See—*
Fontaine, Christian; Vaumoron, Pascal; Pinchon, Gerard; and Brachais, Christian, 4,670,961, Cl. 29-429.000.

Renault, Christian: *See*—
Mestre, Michel; and Renault, Christian, 4,665,076, Cl. 514-259.000.
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Renault, Christian L. A.: *See*—
Dubroeucq, Marie-Christine; Le Fur, Gerard R.; and Renault, Christian L. A., 4,684,652, Cl. 514-254.000.
Dubroeucq, Marie-Christine; Le Fur, Gerard R.; and Renault, Christian L. A., 4,711,890, Cl. 514-311.000.
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Renault, Serge A. M.: *See*—
Goepfert, Serge P. P.; Renault, Serge A. M.; and Roger, Francoise M. M., 4,648,925, Cl. 156-153.000.
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Chassaing, Claude; Collart, Jean-Claude; and Lubert, Yves, 4,659,137, Cl. 296-190.000.
Mounier-Poulat, Francois; Beaupellet, Jean; and Gardier, Patrick, 4,643,406, Cl. 267-52.000.
Sibeud, Jean P.; and Ellenberger, Gerard, 4,653,272, Cl. 60-586.000.
Renaut, Paul W.: *See*—
Archer, Wendel E.; Milton, James L.; Renaut, Paul W., and Winquist, Nelson H., 4,638,274, Cl. 335-52.000.
Hanlon, James T.; and Renaut, Paul W., 4,680,563, Cl. 335-58.000.
Renaux, Charley: *See*—
Arene, Gilbert; Artaud, Robert; and Renaux, Charley, 4,657,071, Cl. 165-134.100.
Artaud, Robert; Aubert, Michel; and Renaux, Charley, 4,655,996, Cl. 376-272.000.
Cransac, Jean-Pierre; Jacquelin, Roland; and Renaux, Charley, 4,663,114, Cl. 376-271.000.
Renbec International Corp.: *See*—
Jimenez, Rene C., 4,659,589, Cl. 427-140.000.
Renbeck, Robert B.: *See*—
Jambotkar, Chakrapani G.; and Renbeck, Robert B., 4,689,869, Cl. 437-44.000.
Renco Corporation: *See*—
Carlson, David L., 4,700,711, Cl. 128-660.000.
Gainsley, James D.; Vikre, David M.; Larsen, Jack E.; Hursh, William F.; and Carlson, David L., 4,671,289, Cl. 128-660.000.
Renda, Frank A., to Hershey Foods Corporation. Orientation section of packing apparatus. 4,635,786, 1-13-87, Cl. 198-424.000.
Rendamax A.G.: *See*—
Rheinfelder, Juan B., 4,643,000, Cl. 62-467.000.
Rende, Anthony V., Jr., to Lord Corporation. Heat activated silicon-based adhesive. 4,690,966, 9-1-87, Cl. 524-264.000.
Rende, Dominic S.; and Breslin, Michael D., to Nalco Chemical Company. Paper sizing method and emulsion. 4,657,946, 4-14-87, Cl. 523-402.000.
Rendek, Peter M., to Motorola, Inc. Semi-conductor accelerometer. 4,691,568, 9-8-87, Cl. 73-517.00R.
Rendel, Robert D. Drink can glider. 4,714,444, 12-22-87, Cl. 446-61.000.
Rendoll Paper Company: *See*—
Donohie, Paul J.; Gray, Gary L.; and Capuano, Frank G., 4,679,694, Cl. 206-611.000.
Rendu, Michel: *See*—
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Rendulic, Francis J.; Robinson, Randolph H.; and Maccini, John A., to W. R. Grace & Co. Projection imaged relief printing plates. 4,702,994, 10-27-87, Cl. 430-306.000.
Rendzio, Joseph J. Pivotable trailer extension. 4,687,219, 8-18-87, Cl. 280-414.100.
Reneau, Bobby J., to Gripper, Inc. Remotely operable flowline connector. 4,671,539, 6-9-87, Cl. 285-18.000.
Reneau, Raymond P., to Keyes Offshore, Inc. Inert gas environmental control system for a hyperbaric chamber and a method for doing same. 4,633,859, 1-6-87, Cl. 128-205.260.
Renfrew, Bruce, to Hozelock-ASL Limited. Hose coupling. 4,673,199, 6-16-87, Cl. 285-316.000.
Renfro, Cecil S.: *See*—
Stadjuhar, Robert C.; and Renfro, Cecil S., 4,680,883, Cl. 40-471.000.
Renfro, Gene R.: *See*—
Taylor, Larry D.; Reel, David A.; and Renfro, Gene R., 4,633,770, Cl. 98-94.200.
Renfro, James G., to Hughes Tool Company. Torque wrench. 4,696,206, 9-29-87, Cl. 81-57.340.
Renfro, James G.: *See*—
Berry, Joe R.; Langowski, Faustyn C.; Renfro, James G.; and Smith, Roger, Jr., 4,715,761, Cl. 414-22.000.
Renfro, Jimmie J., to Atlantic Richfield Company. Electrically stimulated well production system with flexible tubing conductor. 4,662,437, 5-5-87, Cl. 166-65.100.
Renfro, Jimmie J., to Atlantic Richfield Company. Apparatus and method for solids removal from wellbores. 4,671,359, 6-9-87, Cl. 166-312.000.
Renfroe, James B., Jr.: *See*—
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Renfrow, John L. Collapsable oil spillage recovery system. 4,702,832, 10-27-87, Cl. 210-242.300.
Reng, Alwin: *See*—
Quack, Jochen M.; Reng, Alwin; Skrypzak, Werner; and Kunz, Walter, 4,654,163, Cl. 252-312.000.
Renga, James M., to Dow Chemical Company, The. Process for making aromatic ethers. 4,642,349, 2-10-87, Cl. 546-302.000.
Renga, James M.; and Wang, Pen-Chung, to Dow Chemical Company, The. Process for preparing N-methyl 2- or 4-pyridones. 4,656,284, 4-7-87, Cl. 546-290.000.
Renga, James M., to Dow Chemical Company, The. Preparation of alkyl carbonates. 4,658,041, 4-14-87, Cl. 549-229.000.
Renga, James M.: *See*—
Frazier, Kevin A.; and Renga, James M., 4,713,458, Cl. 546-115.000.
Wang, Pen-Chung; and Renga, James M., 4,638,064, Cl. 544-54.000.
Rengarajan, Ramesh: *See*—
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Rengel, Reinhard: *See*—
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Renger, Larry H.; and Gross, Raymond J., to Mattel, Inc. Toy glider. 4,655,720, 4-7-87, Cl. 446-61.000.
Renger, Wolfgang, to Wolff Walsrode Aktiengesellschaft. Internal dusting of film tubes composed of thermoplastics. 4,659,532, 4-21-87, Cl. 264-518.000.
Rengo Co., Ltd.: *See*—
Tokuno, Masateru; Sawada, Tetsuya; and Mori, Yasuharu, 4,658,723, Cl. 101-181.000.
Tokuno, Masateru; Sawada, Tetsuya; and Ishii, Yoshihisa, 4,682,743, Cl. 242-58.600.
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Tokuno, Masateru; Sawada, Tetsuya; and Mori, Yasuharu, 4,696,212, Cl. 83-343.000.
Reniger, Bruce L.: *See*—
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Renishaw Electrical Limited: *See*—
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McMurtry, David R., 4,706,371, Cl. 29-568.000.
Renishaw plc: *See*—
McMurtry, David R., 4,646,422, Cl. 29-568.000.
McMurtry, David R., 4,651,405, Cl. 29-568.000.
McMurtry, David R., 4,663,823, Cl. 29-568.000.
McMurtry, David R., 4,689,485, Cl. 250-231.0SE.
McMurtry, David R., 4,702,013, Cl. 33-558.000.
Renix Electronique: *See*—
Lombard, Claude; Moyses, Claude; Cattier, Gerard; and Montaron, Bernard, 4,637,246, Cl. 73-35.000.
Renk, Rolf, to General Motors Corporation. Ball joint, especially for motor vehicles. 4,693,628, 9-15-87, Cl. 403-135.000.
Renken, Terry L., to Texaco Inc. Catalyst composition. 4,642,303, 2-10-87, Cl. 502-315.000.
Renken, Terry L.; Speranza, George P.; and Waddill, Harold G., to Texaco Inc. N-aminopropyl derivatives of 2,4-diamino-2-methylpentane as epoxy curing agents. 4,652,625, 3-24-87, Cl. 528-123.000.
Renken, Terry L.: *See*—
Sanderson, John R.; Marquis, Edward T.; Meyer, Robert A.; and Renken, Terry L., 4,704,482, Cl. 568-922.000.
Renken, Wayne G.; Heigel, Douglas W.; and Payne, Ronald G., to Innovus. Electrical interconnect system. 4,647,133, 3-3-87, Cl. 339-97.00R.
Renken, Wayne G.; LeMay, Dan B.; and Takahashi, Ricardo M., to Innovus. Thermal mass flowmeter and controller. 4,685,331, 8-11-87, Cl. 73-204.000.
Renken, Wayne G.: *See*—
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Renker, Hansjoerg; and Abegglen, Martin, to Fritz Studer AG. Polymer concrete articles and process for manufacturing same. 4,696,839, 9-29-87, Cl. 428-15.000.
Renn, Donald W.: *See*—
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Renn, Gregory J.: *See*—
McMahon, Raymond D.; Jellovitz, John C.; Vaile, James T.; Renn, Gregory J.; and Ondeck, Elmer J., 4,640,165, Cl. 83-346.000.
Renn, Werner: *See*—
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Renner, Alfred; and Eldin, Sameer H., to Ciba-Geigy Corporation. Heat-curable mixture containing substituted bicyclo[2.2.1]hept-5-ene-2,3-dicarboximide and polymaleimide, and the use thereof. 4,666,997, 5-19-87, Cl. 525-502.000.
Renner, Alfred, to Ciba-Geigy Corporation. Crosslinked polymers prepared from allyl or methallyl-bicyclo[2,2,1]hept-5-ene-2,3-dicarboxylic acid imides and bisimides. 4,667,003, 5-19-87, Cl. 526-259.000.
Renner, Alfred; and Vonlanthen, Christian, to Ciba-Geigy Corporation. Substituted unsaturated, sulfonyloxy group-containing bicyclic imides as catalysts for cationic polymerization. 4,709,047, 11-24-87, Cl. 548-435.000.
Renner, Alfred; Haug, Theobald; and Schreiber, Bruno, to Ciba-Geigy Corp. Polymers formed from allyl-substituted or methallyl-substituted, bicyclic, unsaturated dicarboxylic anhydrides. 4,713,417, 12-15-87, Cl. 525-117.000.

Renner, Alfred: *See*—
Mulhaupt, Rolf; Renner, Alfred; and Lauterbach, Horst, 4,713,428, Cl. 525-523.000.

Renner, Daniel S. O., to Standard Telephones and Cables Public Limited Company. Semiconductor devices and their fabrication. 4,662,988, 5-5-87, Cl. 156-648.000.

Renner, David B. Parlor game apparatus for playing a simulated skill game involving multiple choice strategy. 4,657,254, 4-14-87, Cl. 273-88.000.

Renner, G. Frederick; Thatcher, Richard K.; Atterbury, William G.; Harris, Jeremy M.; Hartman, Nile F.; and McCown, Robert B., to Battelle Memorial Institute. Indicating positions. 4,641,027, 2-3-87, Cl. 250-237.00G.

Renner, G. Frederick: *See*—
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Renner, Gunter: *See*—
Langen, Hans; Schutz, Heinz-Dieter; Wernicke, Ubbo; Himmelmann, Wolfgang; and Renner, Gunter, 4,710,454, Cl. 430-546.000.

Renner, Hermann; Kleiss, Karlheinz; and Schlodder, Rainer, to Degussa Aktiengesellschaft. Process for the recovery of noble metals from solutions. 4,687,514, 8-18-87, Cl. 75-109.000.

Renner, Karl H.; and Morton, Alec J., to Texas Instruments Incorporated. Linear predictive coding technique with symmetrical calculation of Y-and B-values. 4,686,644, 8-11-87, Cl. 364-724.000.

Renner, Karl H.; and Morton, Alec J., to Texas Instruments Incorporated. Linear predictive coding technique with interleaved sequence digital lattice filter. 4,695,970, 9-22-87, Cl. 364-724.000.

Renner, Karl H.; and Morton, Alec J., to Texas Instruments Incorporated. Digital lattice filter with multiplexed full adder. 4,700,323, 10-13-87, Cl. 364-724.000.

Renner Manufacturing Company: *See*—
Voelz, Richard F., 4,664,270, Cl. 212-175.000.

Renner, Werner: *See*—
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Rennick, Donna: *See*—
Yokota, Takashi; Lee, Frank; Rennick, Donna; and Arai, Ken-ichi, 4,695,542, Cl. 435-68.000.

Rennie, Lyall: *See*—
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Rennison, Stuart C.: *See*—
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Rennstich, Eugen: *See*—
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Reno, Charles W., to RCA Corporation. Apparatus for erasing information on a reversible optical recording medium. 4,712,207, 12-8-87, Cl. 369-121.000.

Reno, Mark E.; Olson, Robert K.; and Kalnes, Tom N., to UOP Inc. Multiple single-stage hydrocracking process. 4,713,167, 12-15-87, Cl. 208-59.000.

Renold, Inc.: *See*—
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Rensch, Walter: *See*—
Bauer, Ludwig; Schneider, Erwin; Rensch, Walter; and Weinhold, Helmut, 4,702,464, Cl. 269-55.000.

Renshaw, Robert H.: *See*—
Idvorian, Nick; and Renshaw, Robert H., 4,713,098, Cl. 55-345.000.

Rensselaer Polytechnic Institute: *See*—
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Rentel, Kurt R.: *See*—
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Renth, Ernst-Otto: *See*—
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Renth, Lawrence B. Method and apparatus for injection application of insecticide. 4,648,202, 3-10-87, Cl. 43-132.100.

Renth, Lawrence B. Apparatus for insecticide application. 4,688,349, 8-25-87, Cl. 43-132.100.

Rentmeester, Paul C.: *See*—
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Renton, Stanley, to Albright & Wilson Limited. Deposition processes incorporating solvent dye into electrophoretic resin on metal surface. 4,655,787, 4-7-87, Cl. 8-522.000.

Rentrop, Peter W.; Trapp, Gunter H.; and Dunker, Friedrich W., to Joh. Moritz Rump Kommanditgesellschaft. Installation for ground stabilization in hydraulic engineering. 4,657,432, 4-14-87, Cl. 405-24.000.

Rentz, Bruce A.: *See*—
Speet, Larry A.; and Rentz, Bruce A., 4,703,386, Cl. 361-56.000.

Rentzea, Costin; Sauter, Hubert; Karbach, Stefan; Will, Wolfgang; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, to BASF Aktiengesellschaft. N-(azolylcarbamyl)-hydroxylamines and fungicides containing these compounds. 4,678,798, 7-7-87, Cl. 514-383.000.

Rentzea, Costin; Sauter, Hubert; Zeeh, Bernd; Heilen, Gerd; and Jung, Johann, to BASF Aktiengesellschaft. Beta-triazolyl oximes agents containing them for influencing the growth of plants and their use. 4,684,392, 8-4-87, Cl. 71-76.000.

Rentzea, Costin; Buschmann, Ernst; Himmele, Walter; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, to BASF Aktiengesellschaft. N-(arylpropyl)-azolylureas, and fungicides containing these compounds. 4,708,960, 11-24-87, Cl. 514-383.000.

Rentzea, Costin: *See*—
Graf, Hermann; Rentzea, Costin; Richarz, Winfried; Froehlich, Helmut; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,663,324, Cl. 514-247.000.

Rentzsch, Heinz: *See*—
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Renverse, Mutien-Marie: *See*—
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Renwick, Dennis H.: *See*—
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Renz, Klaus: *See*—
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Renz, Wacker & Co. Maschinenfabrik: *See*—
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Renzel, Peter, to Krautkramer-Branson, Inc. Ultrasonic test instrument. 4,655,084, 4-7-87, Cl. 73-611.000.

Renzi, Fiorenzo; Rivetti, Franco; Romano, Ugo; and Gagliardi, Claudio, to Enichem Sintesi S.p.A. Liquid and polymerizable composition suitable for the production of organic glasses endowed with high abrasion strength. 4,713,433, 12-15-87, Cl. 526-314.000.

Repain, Pascal: *See*—
Carratt, Michel; Hakoun, Roland; Maurel, Jean-Joseph; Pecastaings, Serge; and Repain, Pascal, 4,688,891, Cl. 350-96.240.

Reparaz, Adolfo: *See*—
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Repasi, Janos: *See*—
Timar, Tibor; Zsupan, Kalman; Repasi, Janos; Borsos nee Safranek, Iren; Kiss, Istvan; Fodor, Amdras; and Maroy, Peter, 4,716,238, Cl. 549-408.000.

Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., to International Business Machines Corporation. Footnote management for display and printing. 4,648,067, 3-3-87, Cl. 364-900.00.

Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., to International Business Machines Corporation. Designation of footnotes and footnote reference. 4,648,071, 3-3-87, Cl. 364-900.000.

Repco Limited: *See*—
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Grace, William G., 4,695,345, Cl. 156-264.000.
Grace, William G., 4,704,316, Cl. 428-106.000.

Repella, James A., to Microdot Inc. Hydrodynamic seal. 4,705,277, 11-10-87, Cl. 277-134.000.

Repetto, Eugenio: *See*—
D'Angelo, Renato; Ramacciotti, Aldo; Repetto, Eugenio; and Tolve, Pietro, 4,645,534, Cl. 75-10.220.

Repik, Albert J.: *See*—
McCue, John C.; Repik, Albert J.; and Miller, Charles E., Jr., 4,677,086, Cl. 502-62.000.

Repine, Joseph T., to Warner-Lambert Company. Organic synthesis. 4,630,897, 3-17-87, Cl. 560-160.000.

Repligen Corporation: *See*—
Farrell, Roberta L.; Kirk, Thomas K.; and Tien, Ming, 4,687,741, Cl. 435-189.000.
Farrell, Roberta L., 4,687,745, Cl. 435-278.000.
Farrell, Roberta L., 4,690,895, Cl. 435-278.000.
Farrell, Roberta L., 4,692,413, Cl. 435-278.000.
Palmer, John L.; and Anilionis, Algis, 4,691,009, Cl. 530-350.000.

Replogle, Coy E.: *See*—
Arbisi, Dominic S.; and Replogle, Coy E., 4,680,148, Cl. 261-120.000.

Replogle, Joe O.: *See*—
Benda, Mark; Cappo, Raymond G., Jr.; Kwilos, Jerald J.; and Replogle, Joe O., 4,650,933, Cl. 379-21.000.

Reppel, Paul. Arrangement for record filing. 4,684,028, 8-4-87, Cl. 211-51.000.

Reppen, Gyora, to Tadiran Israel Electronics Industries Ltd. RF power switches. 4,673,831, 6-16-87, Cl. 307-300.000.

Reprogle, Layton J.; and Reprogle, Truman B. Boat dock and lift. 4,641,596, 2-10-87, Cl. 114-44.000.

Reprogle, Layton J.: *See*—
Rabushka, Charles; and Reprogle, Layton J., 4,682,795, Cl. 285-1.000.
Rabushka, Charles; and Reprogle, Layton J., 4,691,941, Cl. 285-1.000.

Reprogle, Truman B.: *See*—
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Repta, A. J., to Merck & Co., Inc. Rectally absorbable form of L-dopa. 4,663,349, 5-5-87, Cl. 514-535.000.

Repta, A. J.: *See*—
Alexander, Jose; Repta, A. J.; and Fix, Joseph A., 4,692,441, Cl. 514-194.000.

Repta, Arnold J.; and Mojaverian, Parviz. Method of parenterally delivering drugs and related compositions. 4,684,630, 8-4-87, Cl. 514-49.000.

Republic Money Orders: *See*—
Smith, Lawrence G., 4,699,532, Cl. 400-104.000.

Republic Steel Corporation: *See*—
Geer, Ralph D.; Morgan, Robert L.; and Senek, Dexter S., 4,705,260, Cl. 266-78.000.
Harris, Richard M.; and Abramczyk, Richard F., 4,683,430, Cl. 324-241.000.
Janos, Wilbert J., 4,644,272, Cl. 324-240.000.
Requejo, Luz P., to Drackett Company, The. Hard surface cleaning composition. 4,689,168, 8-25-87, Cl. 252-139.000.
Resan, Stevan A., to Carlisle Corporation. Non-penetrating roofing membrane fastener. 4,660,347, 4-28-87, Cl. 52-713.000.
Resca, Franco. Handgun frame with fixed barrel bushing. 4,709,497, 12-1-87, Cl. 42-75.020.
Rescalli, Carlo: *See*—
Gazzi, Luigi; and Rescalli, Carlo, 4,710,210, Cl. 62-17.000.
Gazzi, Luigi; and Rescalli, Carlo, 4,710,211, Cl. 62-17.000.
Resch, Heinz, to Gebruder Buhler AG. Roller mill. 4,635,861, 1-13-87, Cl. 241-37.000.
Resch, Helmut: *See*—
Brewton, Nolan; Weiner, Gerhard J.; and Resch, Helmut, 4,653,355, Cl. 81-3.440.
Resch, James F., to ICI Americas Inc. Pyrazolo[3,4-b]pyrrolo[3,4-e]pyridine-5(1H)-one and 1-H-pyrazolo[3,4-b][1,6]naphthyridine-5(6H)-one derivations, useful as anti-anxiety agents. 4,705,793, 11-10-87, Cl. 514-293.000.
Resch, William A., III: *See*—
Florack, Christopher J.; and Resch, William A., III, 4,671,646, Cl. 355-4.000.
Resco Products, Inc.: *See*—
Harvey, Erie M., 4,649,687, Cl. 52-596.000.
Peters, Dennis D., 4,687,752, Cl. 501-121.000.
Resden, Ronald E.: *See*—
Pope, J. Lee, Jr.; and Resden, Ronald E., 4,715,378, Cl. 128-344.000.
Research Association for Petroleum Alternative Development: *See*—
Ushio, Masaru; Ishii, Takeshi; Okazaki, Hajime; Shoda, Takashi, and Nasuno, Kazuya, 4,670,614, Cl. 585-417.000.
Research Association for Petroleum Alternatives Development: *See*—
Imai, Tetsuya; Fujita, Hiroshi; Koikeda, Minoru; and Suzuki, Takashi, 4,698,449, Cl. 585-469.000.
Morimoto, Nobuyuki; Takatsu, Kozo; and Sugimoto, Michio, 4,695,440, Cl. 423-328.000.
Takatsu, Kozo; and Kawata, Noboru, 4,657,750, Cl. 423-329.000.
Uchiyama, Soichi; Hayasaka, Toshiaki; and Ohbayashi, Yasuo, 4,673,693, Cl. 518-713.000.
Research Association for Synthetic Fiber Tech.: *See*—
Sasaki, Isao; Mori, Hiroshi; and Fujimoto, Masaharu, 4,647,650, Cl. 528-274.000.
Research Association for Utilization of Light Oil: *See*—
Imanari, Makoto; Iwane, Hiroshi; Kuzira, Katsufumi; and Seto, Takatoshi, 4,659,841, Cl. 548-508.000.
Katsuno, Hisashi; Murakawa, Takashi; and Yoneda, Toshikazu, 4,681,865, Cl. 502-74.000.
Kitagawa, Sadao; Yokoi, Takashi; and Kaito, Mitsumasa, 4,677,213, Cl. 549-377.000.
Research Association of Electric Conductive Inorganic Compounds: *See*—
Sekido, Satoshi; Tachibana, Hirokazu; and Yamamura, Yasuharu, 4,692,429, Cl. 502-303.000.
Research Association of Synthetic Dyestuffs: *See*—
Niwa, Toshio; Himeno, Kiyoshi; and Yoshihara, Junji, 4,642,339, Cl. 534-650.000.
Research Chemical: *See*—
Ely, Roger L.; and Langenberg, Marvin B., 4,652,393, Cl. 252-158.000.
Research Corporation: *See*—
Allcock, Harry R.; Austin, Paul E.; and Neenan, Thomas X., 4,636,387, Cl. 514-89.000.
Azzam, Rasheed M. A., 4,681,450, Cl. 356-367.000.
Baratta, Anthony J.; Jester, William A.; Kenney, Edward S.; McMaster, Ira B.; and Schultz, Mortimer A., 4,639,349, Cl. 376-254.000.
Bohmer, Ralph M., 4,702,598, Cl. 356-343.000.
Brown, David B., deceased; Khokhar, Abdul R.; Hacker, Miles P.; and McCormack, John J., 4,661,516, Cl. 514-492.000.
Chang, Stephen S.; Ho, Chi-Tang; and Houlihan, Christopher M., 4,638,095, Cl. 568-326.000.
Chlebowski, Jan F.; and Roberts, Catherine H., 4,650,760, Cl. 435-7.000.
Chlebowski, Jan F.; and Roberts, Catherine H., 4,656,128, Cl. 435-7.000.
Clark, C. Randall, 4,638,014, Cl. 514-619.000.
Cleare, Michael J.; Hoeschele, James D.; Rosenberg, Barnett; and Van Camp, Loretta, 4,657,927, Cl. 514-492.000.
Davidonis, Gayle H.; Mumma, Ralph O.; and Hamilton, Robert H., 4,672,035, Cl. 435-240.000.
DesMarteau, Darryl D., 4,697,011, Cl. 540-544.000.
Fang, Chang-Shui; Xi, Yao; Chen, Zhi-Xiong; Bhalla, Amar S.; and Cross, Leslie E., 4,648,991, Cl. 252-1.000.
Gormus, Bobby J., 4,693,967, Cl. 435-7.000.
Hall, Iris H.; Wyrick, Steven D.; and Chapman, James M., Jr., 4,689,326, Cl. 514-217.000.
Hall, Iris H.; and Cocolas, George H., 4,689,328, Cl. 514-274.000.
Jester, William A.; McMaster, Ira B.; and Baratta, Anthony J., 4,663,113, Cl. 376-256.000.
Lasslo, Andrew; Quintana, Ronald P.; Dugdale, Marion; and Johnson, Randy W., 4,634,709, Cl. 514-316.000.
Lasslo, Andrew; Quintana, Ronald P., and Dugdale, Marion, 4,657,917, Cl. 514-315.000.
McLaughlin, Patricia J.; and Zagon, Ian S., 4,689,332, Cl. 514-282.000.
O'Brien, Thomas G.; Pegg, Anthony E.; and Herlyn, Meehard, 4,637,984, Cl. 435-240.000.
Oeschger, Max P.; Hooke, Anne M.; and Bellanti, Joseph A., 4,681,762, Cl. 424-92.000.
Ritts, Roy E., Jr., 4,647,535, Cl. 435-172.200.
Rzeszotarski, Waclaw J.; Gibson, Raymond E.; Eckelman, William C.; and Reba, Richard C., 4,644,003, Cl. 514-304.000.
Schott, Hans; and Royce, Alan E., 4,690,775, Cl. 252-312.000.
Segrest, Jere P.; and Anantharamaiah, Gattadahalli M., 4,643,988, Cl. 514-12.000.
Sluss, Patrick M.; and Reichert, Leo E., Jr., 4,652,450, Cl. 424-115.000.
Suhadolnik, Robert J.; Wu, Joseph M.; Doetsch, Paul; and Henderson, Earl E., 4,708,935, Cl. 435-91.000.
Teng, Lin-nar L., 4,654,327, Cl. 514-56.000.
Thistle, Johnson L.; and Caskey, Patrick E., 4,655,744, Cl. 604-28.000.
Titchener, Mark, 4,670,890, Cl. 375-110.000.
Van Heuvelen, Alan, 4,704,029, Cl. 356-39.000.
Waali, Edward E., 4,663,151, Cl. 424-45.000.
Wilkins, Tracy D.; and Lyerly, David M., 4,713,240, Cl. 424-92.000.
Research Corporation of the University of Hawaii, The: *See*—
Heinicke, Ralph, 4,666,606, Cl. 210-632.000.
Research Corporation Technologies, Inc.: *See*—
Srinivasan, Vadake R.; Cary, Jeffrey W.; Chon, Younghae; and Narva, Kenneth E., 4,713,336, Cl. 435-155.000.
Research-Cottrell, Inc.: *See*—
Stackhouse, David W.; and Heidl, Stephen C., 4,705,653, Cl. 261-111.000.
Research Dev. Corp. of Japan: *See*—
Mishima, Masayuki, 4,715,961, Cl. 210-692.000.
Research Development Corp.: *See*—
Nakagawa, Takeo; and Suzuki, Kiyoshi, 4,640,156, Cl. 82-1.00C
Nishizawa, Junichi; and Motoya, Kaoru, 4,712,122, Cl. 357-22.000.
Research Development Corporation of Japan: *See*—
Barsony, Istvan, 4,679,307, Cl. 29-576.00B.
Engel, Alan K., 4,681,799, Cl. 428-220.000.
Hayashi, Chikara, 4,657,187, Cl. 239-556.000.
Hayashi, Chikara; and Kashu, Seiichiro, 4,683,118, Cl. 419-23.000.
Higuchi, Toshiro, 4,694,401, Cl. 364-475.000.
Iwasaki, Kazuharu, 4,671,971, Cl. 427-128.000.
Kiniwa, Hideaki, 4,694,044, Cl. 525-178.000.
Matsumoto, Satoshi, 4,705,764, Cl. 502-62.000.
Mishima, Masayuki, 4,677,135, Cl. 521-62.000.
Nakagawa, Takeo; and Suzuki, Kiyoshi, 4,703,898, Cl. 241-30.000.
Nakanouchi, Yukio; Ohnuma, Shigehiro; and Masumoto, Tsuyoshi, 4,688,130, Cl. 360-135.000.
Nishizawa, Jun-ichi; and Kondoh, Hisao, 4,673,961, Cl. 357-22.000.
Ogata, Naoya; Sanui, Kohei, Yui, Nobuhiko; Nojima, Kazuhiko; Kataoka, Kazunori; Okano, Teruo; and Sakurai, Yasuhisa, 4,687,831, Cl. 528-64.000.
Shimizu, Ryuichi; and Ikuta, Takashi, 4,713,687, Cl. 358-138.000.
Tomizawa, Kenji; Shimanuki, Yasushi; and Sassa, Koichi, 4,664,742, Cl. 156-607.000.
Tomizawa, Kenji; Sassa, Koichi; and Shimanuki, Yasushi, 4,704,257, Cl. 422-249.000.
Umemura, Shizuo, 4,713,258, Cl. 427-35.000.
Watarai, Hisao; Tanaka, Masahiro; Masuda, Shuji; Suzuki, Kenji; and Masumoto, Tsuyoshi, 4,636,806, Cl. 346-1.100.
Yamaguchi, Youko; Shimizu, Hiroshi; Tsuda, Ichiro; Yano, Masafumi; and Okumura, Tokiko, 4,710,964, Cl. 382-17.000.
Yanagawa, Motoo, 4,702,752, Cl. 55-131.000.
Research and Education Institute, Inc. Harbor-UCLA Medical Center: *See*—
Huszczuk, Andrew R., 4,680,956, Cl. 73-1.00G.
Research Foundation for Mental Hygiene, Inc.: *See*—
Glassman, Alexander H., 4,683,231, Cl. 514-220.000.
Tamir, Hadassah; Karpiak, Stephen E.; and Wilchek, Meir, 4,658,038, Cl. 548-495.000.
Research Foundation for Microbial Diseases of Osaka University, The: *See*—
Nakata, Atsuo; and Shinagawa, Hideo, 4,703,005, Cl. 435-68.000.
Research Foundation of State University: *See*—
Golub, Lorne M.; McNamara, Thomas F.; and Ramamurthy, N. S., 4,666,897, Cl. 514-152.000.
Research Foundation of State University of New York, The: *See*—
Apitz-Castro, Rafael J.; and Jain, Mahendra K., 4,665,088, Cl. 514-420.000.
Bates, Hans A.; and Rosenblum, Stuart, 4,656,289, Cl. 548-303.000.
Beachley, Orville T., Jr., 4,710,575, Cl. 556-1.000.
Block, Eric; and Ahmad, Saleem, 4,643,994, Cl. 514-165.000.
Cramer, Eva B.; Milks, Linda C.; Conyers, Gregory P.; Valenti, Andrew; and Perez, Antonio, 4,686,190, Cl. 435-291.000.
Herman, Herbert; Fischman, Gary S.; and Bancke, Glenn A., 4,704,298, Cl. 427-34.000.
Inouye, Masayori; and Masui, Yoshihiro, 4,643,969, Cl. 435-68.000.
Inouye, Masayori; and Nakamura, Kenzo, 4,666,836, Cl. 435-68.000.
Johnson, Francis; and Grollman, Arthur P., 4,689,321, Cl. 514-45.000.

McNamara, Thomas F.; Ramamurthy, Nungavaram S.; and Golub, Lorne M., 4,704,383, Cl. 514-152.000.
Morgan, Edward A., 4,654,307, Cl. 435-253.000.
Sachs, Frederick; Auerbach, Anthony; McGarrigle, Richard G.; and Neil, James E., 4,695,709, Cl. 219-494.000.
Srihari, Sargur N.; and Hull, Jonathan J., 4,654,875, Cl. 382-40.000.
Vonnegut, Bernard, 4,671,108, Cl. 73-189.000.
Research, Incorporated: *See*—
Anderson, James R., 4,642,734, Cl. 361-380.000.
Wilde, Herbert J.; and Mengelkoch, James F., 4,665,627, Cl. 34-4.000.
Research Instituut Sesto B.V.: *See*—
Godijn, Willem, 4,662,351, Cl. 126-111.000.
Research Laboratories of Australia Pty. Ltd.: *See*—
Spooner, Anthony N.; and Lima-Marques, Luis, 4,697,463, Cl. 73-866.000.
Research Medical, Inc.: *See*—
Kelly, Michael N.; Foster, John B.; and Foster, Robert D., 4,639,252, Cl. 604-282.000.
Research Physics, Inc. *See*—
Michel, Thomas J., 4,638,800, Cl. 128-303.100.
Research Plus, Inc.: *See*—
Brosius, James R.; and Brosius, Ralph C., 4,687,126, Cl. 227-10.000.
Research Products Corporation: *See*—
Delany, John J., 4,701,196, Cl. 55-481.000.
Guetersloh, Timothy L., 4,693,048, Cl. 52-664.000.
Guetersloh, Timothy L., 4,706,808, Cl. 206-305.000.
Liebmann, John M.; and Anoszko, Thomas J., 4,688,596, Cl. 137-360.000.
Research Technology International: *See*—
Bowen, Howard; Henderson, David; and Olson, Carl, 4,652,124, Cl. 356-237.000.
Bowen, Howard; Henderson, David; and Olson, Carl, 4,652,125, Cl. 356-237.000.
Bowen, Howard; Henderson, David; and Olson, Carl, 4,687,943, Cl. 250-570.000.
Research Triangle Institute: *See*—
Allen, Crowley C., Jr., 4,636,315, Cl. 210-656.000.
Chiang, Peter K.; Richard, Michelle M.; Padilla, Felipe N.; Carroll, Frank I.; and Abraham, Philip, 4,713,391, Cl. 514-412.000.
Pekar, Jaroslaw; and Beadles, Robert L., 4,704,000, Cl. 350-145.000.
Schindler, Anton, 4,702,917, Cl. 424-422.000.
Seltzman, Herbert H.; and Hsieh, Yung-Ao, 4,714,619, Cl. 426-548.000.
Resendez, Henry N., Jr. Locking device. 4,660,902, 4-28-87, Cl. 312-114.000.
Resh, Dale R., to Leaders Heat Products. Pellet burning system. 4,669,396, 6-2-87, Cl. 110-233.000.
Resh, John, to McGill Manufacturing Company, Inc. Slow make and break action switch. 4,689,451, 8-25-87, Cl. 200-6.00C.
Resh, Kyle W., to Vista Chemical Company. Process for production of alkyl aromatics. 4,691,068, 9-1-87, Cl. 585-323.000.
Reshanov, Eugene N.: *See*—
Le Sage, Richard; Reshanov, Eugene N.; and Schlemmer, Richard A., 4,635,950, Cl. 280-47.260.
Resinoid Engineering Corporation: *See*—
Ebner, Howard A., 4,638,202, Cl. 310-235.000.
Resistance Technology, Inc.: *See*—
Hagen, Donald R., 4,636,768, Cl. 338-312.000.
McDonald, Gerald H., 4,649,366, Cl. 338-134.000.
Resman, John B.: *See*—
Stich, Michael C.; Resman, John B.; Ottesen, Hjalmar H.; and Anderson, Todd B., 4,697,127, Cl. 318-561.000.
Resnick, Albert L.: *See*—
Savoiy, Arpad; Villa, Jose L.; Garvey, Christopher M.; and Resnick, Albert L., 4,674,574, Cl. 166-293.000.
Resnick, Brian J.: *See*—
Bhatia, Madhukar; and Resnick, Brian J., 4,635,206, Cl. 364-474.000.
Resnick, Bruce M.; and Wexler, Allan J., to Anitec Image Corporation. Compositions comprising ethane dioic acid hydrazide compounds and derivatives useful as dot-promoting agents. 4,686,167, 8-11-87, Cl. 430-264.000.
Resnick, David R.; and Bach, Randall E., to ETA Systems, Inc. Built-in self-test system for VLSI circuit chips. 4,701,920, 10-20-87, Cl. 371-25.000.
Resnick, Joseph A.: *See*—
Torgeson, W. Lee, 4,706,292, Cl. 381-70.000.
Resnick, Paul R., to Du Pont de Nemours, E. I., and Company. Process and intermediates for fluorinated vinyl ether monomer. 4,675,453, 6-23-87, Cl. 568-615.000.
Resnick, Semion; and Goldman, Jacob, to Resnick, Semion. Cartridge assembly for a surgical stapling instrument. 4,700,703, 10-20-87, Cl. 128-334.00R.
Resnick, Susan J.: *See*—
Paine, Christopher G.; White, William J.; and Resnick, Susan J., 4,695,861, Cl. 357-30.000.
Resnicow, Herbert. Controlled electric drive device. 4,704,553, 11-3-87, Cl. 310-12.000.
Resolution Research, Inc.: *See*—
Allebest, Edward F.; Hansen, Parley E.; Walsh, George A.; and Maguire, Walter R., 4,644,515, Cl. 369-32.000.
Allebest, Edward F.; Hansen, Parley E.; Walsh, George A.; and Maguire, Walter R., 4,701,896, Cl. 369-32.000.
Resolver Corporation: *See*—
Lameau, John R., 4,659,953, Cl. 310-111.000.
Resonex: *See*—
Buonocore, Michael H., 4,651,096, Cl. 324-309.000.
Resonex, Inc.: *See*—
Barratt, Craig H.; Wilfley, Brian P.; and Parish, David M., 4,713,615, Cl. 324-307.000.
MacKinnon, Barry A.; and Sutphin, Howard D., 4,667,174, Cl. 335-299.000.
Resopal Werk H. Rommler GmbH: *See*—
Werres, Willy, 4,701,232, Cl. 156-211.000.
Resource Technology Associates: *See*—
Coltrinari, Enzo L., 4,708,804, Cl. 210-677.000.
Leto, Joseph J.; Gertenbach, Dennis D.; and Gillespie, Daniel W., 4,648,964, Cl. 208-390.000.
Shaw, Douglas R., 4,690,752, Cl. 209-5.000.
Respitrace Corporation: *See*—
Sackner, Marvin A., 4,648,407, Cl. 128-721.000.
Ress, Piroska; Kiss, Istvan; Miltenyi, Geza; Strahl, Antal; Petro, Imre; Farkas, Jozsef; Biacs, Peter; Kozma, Istvanne; and Debreczeny, Istvan, to Sorgyar, Kobanyai; and Kozponti Elelmiszeripari Kutato Intezet. Process for controlling the germination of malting barley. 4,670,274, 6-2-87, Cl. 426-240.000.
Ressel, Herbert; Haas, Hans; and Krause, Johannes, to Hoechst Aktiengesellschaft. Process for reducing iron and vanadium in phosphoric acid solution. 4,642,224, 2-10-87, Cl. 423-321.00R.
Reßel, Herbert; and Westphal, Wilhelm, to Hoechst Aktiengesellschaft. Apparatus for reducing iron and vanadium in phosphoric acid solution. 4,705,671, 11-10-87, Cl. 422-189.000.
Ressel, Herbert: *See*—
Kolkmann, Friedrich; Ressel, Herbert; Gradl, Reinhard; and Schimmel, Gunther, 4,683,127, Cl. 423-321.00R.
Ressencourt, Hubert, to Raskin S.A. Machine for working sheet material such as sheet metal. 4,665,607, 5-19-87, Cl. 29-568.000.
Ressi di Cervia, Arturo L., to Finic, B.V. Slurry trench method and apparatus for constructing underground walls. 4,696,607, 9-29-87, Cl. 405-267.000.
Resslar, John J., to United Technologies Automotive, Inc. Accelerated solvent resistivity test. 4,665,738, 5-19-87, Cl. 73-104.000.
Resta, Mario: *See*—
Resta, Rodolfo; Resta, Mario; and Resta, Roberto, 4,669,405, Cl. 112-121.140.
Resta, Roberto: *See*—
Resta, Rodolfo; Resta, Mario; and Resta, Roberto, 4,669,405, Cl. 112-121.140.
Resta, Rodolfo; Resta, Mario; and Resta, Roberto, to Antonia Resta Meccanica S.d.f. di Resta Mario e Berardi. Quilting machine with relatively moving cloth holder carriage and sewing head. 4,669,405, 6-2-87, Cl. 112-121.140.
Restaino, Alfred J.; Phalangas, Charalambos J.; and Titus, George R., to ICI Americas Inc. Amine and ammonium nitrogen containing polyvinyl alcohol polymers having improved lipophilic properties for use in skin conditioning, cosmetic and pharmaceutical formulations. 4,689,217, 8-25-87, Cl. 424-70.000.
Restall, James E.; and Hayman, Cecil, to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Process for diffusion coating metals. 4,687,684, 8-18-87, Cl. 427-248.100.
Restall, James E.; and Hayman, Cecil, to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Cleaning of metal articles. 4,698,130, 10-6-87, Cl. 156-646.000.
Restaurant Technology, Inc.: *See*—
Weimer, Ralph; Kalowski, Thaddeus J.; Dorr, Richard W.; and Novy, Robert A., 4,669,373, Cl. 99-349.000.
Restelli, Amedeo A., to Societa Italiana Catene Calibrate Regina S.p.A. Brake for a bicycle wheel with opposed friction block levers disposed tangentially to the wheel. 4,669,581, 6-2-87, Cl. 188-24.120.
Restelli, Edward F., Jr.: *See*—
Cullo, Leonard A.; Nagle, Elliott V., Jr.; Restelli, Edward F., Jr.; and Yogan, Thomas J., 4,705,770, Cl. 502-242.000.
Restle, Karl-Heinz: *See*—
Hepp, Wolfgang; Restle, Karl-Heinz; van Rijn, Dick; and Wess, Othmar, 4,669,483, Cl. 128-660.000.
Restra Petentverwertung GmbH: *See*—
Rehm, Gallus; and Franke, Lutz, 4,671,034, Cl. 52-223.00L.
Restrepo, Mario A.: *See*—
Aranguren, William L.; Restrepo, Mario A.; and Sidey, Michael J., 4,674,085, Cl. 370-85.000.
Resuggan, Peter L.: *See*—
Peele, Camille; Harwood, Jon W.; and Resuggan, Peter L., 4,712,295, Cl. 29-700.000.
Rosa, Bruno A.; Harwood, Jon W.; Moring, Walter G., III; and Resuggan, Peter L., 4,656,713, Cl. 29-157.00R.
Resurrection Oil Corporation: *See*—
Gussow, William C., 4,676,314, Cl. 166-268.000.
Reswick, James B. Variable speed ratio drive. 4,652,250, 3-24-87, Cl. 474-52.000.
Retali, Gilbert: *See*—
Douchy, Marc; Lohez, Pierre; Malecot, Jean-Guy; and Retali, Gilbert, 4,656,007, Cl. 422-64.000.
Retallack, Laurence J.; and Kuhfus, Gerd, to Northern Telecom Limited. Programming switch assembly for communication terminals. 4,647,728, 3-3-87, Cl. 200-5.00R.
Retallick, William B., to Camet, Inc. Metal honeycomb catalyst support having a double taper. 4,673,553, 6-16-87, Cl. 422-180.000.
Retallick, William B., to Camet, Inc. Apparatus for shaping a spiral catalyst support. 4,677,839, 7-7-87, Cl. 72-402.000.

Retallick, William B.: *See*—
Cornelison, Richard C.; and Retallick, William B., 4,672,809, Cl. 60-286.000.
Cornelison, Richard C.; and Retallick, William B., 4,711,009, Cl. 29-157.00R.
Retech, Inc.: *See*—
Whitman, Richard E., 4,637,032, Cl. 373-69.000.
Retelsdorf, Hans-Joachim: *See*—
Fichte, Rudolf; Retelsdorf, Hans-Joachim; and Kunert, Peter K., 4,643,874, Cl. 420-417.000.
Retersdorf, James P.: *See*—
Kumpitsch, Robert C.; and Retersdorf, James P., 4,713,878, Cl. 29-599.000.
Retfalvi, Ferenc: *See*—
Bacskai, Endre; Retfalvi, Ferenc; and Sasdi, Andras, 4,694,479, Cl. 378-58.000.
Retherford, Simon. Fluid deflection shield assembly. 4,665,976, 5-19-87, Cl. 166-81.000.
Rethorst, Scott, to Vehicle Research Corporation. Laminar vortex pump system. 4,699,340, 10-13-87, Cl. 244-199.000.
Rethwish, William F.; and Schneider, Samuel, to Rohr Industries, Inc. Automatic metallic honeycomb core manufacturing machine. 4,642,436, 2-10-87, Cl. 219-78.110.
Retort, Vincent D.: *See*—
Bischoff, Peter G.; Rauch, David J.; Retort, Vincent D.; and Osborne, John R., 4,694,368, Cl. 360-126.000.
Retschke, Wolfgang: *See*—
Koizumi, Yasuhiro; Torisawa, Soichi; Gartner, Walter; Dietz, Gudrun; and Retschke, Wolfgang, 4,704,348, Cl. 430-327.000.
Rettberg, Randall D.; and Glasser, Lance A., to Bolt Beranek and Newman Inc. Digital phase adjustment. 4,700,347, 10-13-87, Cl. 371-1.000.
Rettenmaier, Louis F.: *See*—
Gelfand, Peter C.; Piulle, Walter V.; and Rettenmaier, Louis F., 4,692,174, Cl. 55-129.000.
Retterath, James E., to Sperry Corporation. Multiple-use priority network. 4,663,756, 5-5-87, Cl. 370-85.000.
Rettew, Stephen: *See*—
Kaltenbach, Karl W.; Rettew, Stephen; Rudy, John O.; and Szakacs, Gabor L., 4,649,028, Cl. 422-100.000.
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Gasc, Jean-Claude; Nedelec, Lucien; Rettien, Claude; and Nanopoulos, Dinah W., 4,699,907, Cl. 514-232.000.
Rettig, Vernon E.: *See*—
Bartusek, Robert J.; Steilen, Ronald M.; and Rettig, Vernon E., 4,700,785, Cl. 172-705.000.
Rettke, Wilfried: *See*—
Moritz, Manfred; and Rettke, Wilfried, 4,710,042, Cl. 400-141.000.
Rettner, Gerald F.: *See*—
Scarabino, Mario J.; Peter, Emmett B.; and Rettner, Gerald F., 4,687,193, Cl. 271-184.000.
Retz, Alexander J., to Westinghouse Electric Corp. Inflatable reactor vessel stud hole plug. 4,671,518, 6-9-87, Cl. 277-1.000.
Retz, Philip. Eye chart. 4,660,948, 4-28-87, Cl. 351-239.000.
Retz, Philip. Tide turbine. 4,686,376, 8-11-87, Cl. 290-42.000.
Retzer, Michael H.: *See*—
Howard, Scott P.; Kozlowski, Ted A.; and Retzer, Michael H., 4,701,944, Cl. 379-63.000.
Retzlaff, Friedhelm: *See*—
Gross, Heinz; Gerber, Manfred; Krebs, Rolf; and Retzlaff, Friedhelm, 4,656,332, Cl. 219-121.0LD.
Reubke, Karl-Julius: *See*—
Lantzsch, Reinhard; and Reubke, Karl-Julius, 4,639,527, Cl. 548-262.000.
Reudelsterz, Helmut: *See*—
Bertiller, Roland; Kellner, Gerd; and Reudelsterz, Helmut, 4,633,755, Cl. 89-29.000.
Bertiller, Roland; Kellner, Gerd; and Reudelsterz, Helmut, 4,642,928, Cl. 42-77.000.
Reul, Helmut: *See*—
Pietsch, Hanns; Kartheus, Holger; and Reul, Helmut, 4,643,732, Cl. 623-2.000.
Reule, Alfred, to Carl-Zeiss-Stiftung. Wavelength multi/demultiplexer. 4,634,215, 1-6-87, Cl. 350-96.160.
Reule, Alfred, and Schroder, Joachim, to Carl-Zeiss-Stiftung. Current supply for radiation sources of frequency-proportional optical sensors. 4,707,838, 11-17-87, Cl. 372-38.000.
Reule, Alfred: *See*—
Blumentritt, Martin; Reule, Alfred; and Bittner, Reinhold, 4,703,472, Cl. 370-3.000.
Reulecke, Fritz; and Pradel, Gunter, to Sartorius GmbH. Filter for the filtration of fluids. 4,652,367, 3-24-87, Cl. 210-94.000.
Reunamaki, Pauli T.; Yli-Vakkuri, Erkki P. J.; and Anttonen, Kauko K., to O/Y Kyro A/B Tamglass. Resistor element assembly for a heating furnace of glass sheets and method of replacing a resistor element. 4,695,821, 9-22-87, Cl. 338-316.000.
Reunamaki, Pauli T.; Yli-Vakkuri, Erkki P. J.; and Anttonen, Kauko K., to O/Y Kyro A/B Tamglass. Support frame for resistor elements in a heating furnace for glass sheets. 4,712,086, 12-8-87, Cl. 338-315.000.
Reusch, David C., to Boeing Company, The. Low shock explosive joint systems. 4,648,227, 3-10-87, Cl. 52-419.000.
Reuschel, Donald L. Cartridge carrier and dispenser. 4,685,600, 8-11-87, Cl. 224-203.000.
Reuschel, Jurgen: *See*—
Blochl, Franz; and Reuschel, Jurgen, 4,668,450, Cl. 264-25.000.
Reuschling, Dieter: *See*—
Clauss, Karl; Linkies, Adolf; and Reuschling, Dieter, 4,638,063, Cl. 544-2.000.
Clauss, Karl; Linkies, Adolf; and Reuschling, Dieter, 4,695,629, Cl. 544-2.000.
Reuss, George D.: *See*—
Adlon, Daniel T.; Bianchi, Edward A.; College, Neil F.; and Reuss, George D., 4,650,391, Cl. 414-222.000.
Reuss, Gerald; Gwash, Kevin; Gay, Charles; and Bissonette, Noel G., to Precision-Cosmet Co., Inc. Intraocular lens with foldable sides. 4,664,665, 5-12-87, Cl. 623-6.000.
Reuss, James L.: *See*—
Snyder, Leon T.; Scarfone, Frank A.; Reuss, James L.; Campen, George V.; and Yates, George H., 4,686,999, Cl. 128-716.000.
Reuss, John R.: *See*—
Franchina, Thomas F.; Gudmundson, Gunnar G.; and Reuss, John R., 4,711,565, Cl. 355-39.000.
Reuss, Oswald, to Preh Elektrofeinmechanische Werke, Jakob Preh, Nachf. GmbH & Co. Diode connector. 4,659,164, 4-21-87, Cl. 339-143.00R.
Reuss, Oswald; and Rutterschmidt, Franz, to Preh Elektrofeinmechanische Werke Jakob Preh Nachf. GmbH & Co. Rheostatic devices. 4,701,740, 10-20-87, Cl. 338-164.000.
Reuss, Oswald; and Otto, Karl L., to Preh, Elektrofeinmechanische Werke, Jakob Preh, Nachf. GmbH & Co. Plug-type connector module carrying a printed circuit board. 4,702,708, 10-27-87, Cl. 439-83.000.
Reuss, Robert H.: *See*—
Birrittella, Mark S.; Liaw, Hang M.; and Reuss, Robert H., 4,663,831, Cl. 29-576.00E.
Reusser, Robert E.: *See*—
Drake, Charles A.; and Reusser, Robert E., 4,663,304, Cl. 502-211.000.
Reuter, Alfred, to Gebruder Linck Maschinenfabrik und Eisengiesserei "Gatterlinck". Tree-trunk sawing and cutting installation. 4,691,749, 9-8-87, Cl. 144-39.000.
Reuter, Alfred, to Gebruder Linck Maschinenfabrik und Eisengiesserei "Gatterlinck". Device for shaving the sides of tree trunks. 4,711,279, 12-8-87, Cl. 144-39.000.
Reuter, Fritz, to J. Eberspachge. Method and apparatus for recognizing malfunction in a heater operated with liquid fuel. 4,644,266, 2-17-87, Cl. 324-73.00R.
Reuter, Gerald L.: *See*—
Wu, Chien-Chin; Reuter, Gerald L.; and Coons, Mark E., 4,676,984, Cl. 424-157.000.
Wu, Chien-Chin; and Reuter, Gerald L., 4,704,278, Cl. 424-157.000.
Reuter, Herbert: *See*—
Seiter, Wolfgang; Wegener, Ingo; and Reuter, Herbert, 4,661,281, Cl. 252-140.000.
Reuter, Horst, to Boge GmbH. Rubber mounting with hydraulic damping, particularly for mounting vehicle engines. 4,660,813, 4-28-87, Cl. 267-140.100.
Reuter, Horst; Quast, Jorn-Rainer; Maier, Peter; and Brenner, Heinrich, to BOGE GmbH. Hydraulically damped elastic engine mount. 4,697,793, 10-6-87, Cl. 267-195.000.
Reuter, Howard A.; and Murphey, Dennis D., to Westinghouse Electric Corp. System for assembling electronic component kits. 4,651,863, 3-24-87, Cl. 198-339.100.
Reuter, Karl F.: *See*—
Bauer, Helmut; and Reuter, Karl F., 4,645,250, Cl. 293-115.000.
Gallion, Georg A.; Bratke, Dieter N.; Helbig, Klaus; and Reuter, Karl F., 4,640,450, Cl. 224-331.000.
Reuter, Karl-Heinz; and Meckl, Heinz, to Agfa Gevaert Aktiengesellschaft. Container for the purification of liquids. 4,687,577, 8-18-87, Cl. 210-288.000.
Reuter, Martin: *See*—
Konig, Johannes; Kurfurst, Wilhelm; Willers, Hans-Gunther; and Reuter, Martin, 4,688,937, Cl. 356-153.000.
Reuther, Christian: *See*—
Fleischer, Klaus; Gohler, Peter; Mangler, Rolf; Reuther, Christian; Schingnitz, Manfred; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Rodionov, Boris, 4,704,971, Cl. 110-264.000.
Reuther, Wolfgang: *See*—
Ebel, Klaus; Reuther, Wolfgang; Weiss, Wolfram; and Leigemann, Ludwig, 4,668,785, Cl. 544-196.000.
Ebel, Klaus; and Reuther, Wolfgang, 4,670,558, Cl. 544-196.000.
Reutler, Harald; Loser, Wolfgang; Muhlbach, Heinz; Richter, Gerhard; and Stephani, Gunter, to VEB Rohrkombinat, Stahl und Walzwerk, Riesa. Method for the making of microcrystalline metallic materials. 4,660,622, 4-28-87, Cl. 164-463.000.
Reutler, Herbert; and Ullrich, Manfred, to Interatom GmbH. Container system for a high-temperature nuclear reactor. 4,707,327, 11-17-87, Cl. 376-294.000.
Reutter, Anneliese: *See*—
Staiger, Gerhard; Selmayr, Tassilo; Kinzel, Peter; and Reutter, Anneliese, 4,639,541, Cl. 560-20.000.
Reuveni, Asher, to Elscint Ltd. Noise artifacts reduction. 4,682,291, 7-21-87, Cl. 364-414.000.
Reuveny, Shaul: *See*—
Eppstein, Lee B.; Mohler, Robert D.; and Reuveny, Shaul, 4,680,267, Cl. 435-289.000.

Reuvers, Gerardus L. J.: *See—*
Kemner, Rudolf; and Reuvers, Gerardus L. J., 4,689,565, Cl. 324-309.000.

Reuvers, Johannes G.; Richter, Wolfgang; and Kummer, Rudolf to BASF Aktiengesellschaft. Preparation of succinic acid diesters. 4,645,855, 2-24-87, Cl. 560-204.000.

Rev-A-Shelf, Inc.: *See—*
Mitts, Richard K.; and Jones, J. Kevin, 4,688,686, Cl. 211-183.000.

Revalidatie Institut Muiderpoort: *See—*
Swart, Maarten E., 4,686,722, Cl. 5-453.000.

Revell, Alan E., to Allis-Chalmers Corporation. Self-contained dust collector with quick release adapter duct. 4,680,039, 7-14-87, Cl. 55-341.00R.

Revell, William J.: *See—*
Collins, Ian P.; and Revell, William J., 4,651,718, Cl. 128-4.000.
Collins, Ian P.; and Revell, William J., 4,685,450, Cl. 128-4.000.

Revere Copper and Brass Incorporated: *See—*
Chapman, James B., 4,710,120, Cl. 425-185.000.
Plovanich, Charles J.; Ossont, Guy H.; King, Keith C.; Irwin, Robert H.; and Knoop, Walter V., 4,683,814, Cl. 100-37.000.

Revere Corporation of America: *See—*
Jacobson, Walter E., 4,655,305, Cl. 177-211.000.

Revere, William G., Jr., to Lockheed Corporation. Anvil insert for fastener machine. 4,682,392, 7-28-87, Cl. 29-34.00B.

Revetements De Couvin: *See—*
Moreau, Jean-Frederic, 4,693,911, Cl. 427-196.000.

Revici, Emanuel, to Avram, Elena. Composition and method for treatment of potassium deficiency. 4,649,152, 3-10-87, Cl. 514-425.000.

Revici, Emanuel, to Avram, Elena. Method for counteracting the adverse effects of sodium chloride. 4,663,165, 5-5-87, Cl. 424-131.000.

Revici, Emanuel, to Avram, Elena. Composition and method for treatment of copper deficiency. 4,677,118, 6-30-87, Cl. 514-499.000.

Revici, Emanuel, to F.C.N.s.r.l.; and Alphatime Ltd. Pharmaceutical compositions having antineoplastic activity. 4,681,753, 7-21-87, Cl. 424-10.000.

Revici, Emanuel, to Avram, Elena. Method for relieving pain or producing analgesia. 4,695,583, 9-22-87, Cl. 514-449.000.

Revici, Emanuel, to Avram, Elena. Treatment of symptoms of neoplastic diseases with nucleoproteins. 4,701,442, 10-20-87, Cl. 514-21.000.

Revill, Peter L.: *See—*
Debenham, Michael, deceased; Carmine, Patrick S., executor; Debenham, Barbara S., executor; Debenham, David, executor; Dalli, Alan G.; and Revill, Peter L., 4,671,720, Cl. 413-58.000.

Revillet, Georges; and Thevoz, Michel, to Hoffmann-La Roche Inc. Multicuvette rotor for analyzer. 4,663,296, 5-5-87, Cl. 436-45.000.

Revils, Ernest A.; Arboneaux, Emmet J., III; and Lirette, Brent J., to Chromalloy American Corporation. Stage cementing tool. 4,674,569, 6-23-87, Cl. 166-154.000.

Revitz, Martin: *See—*
Ahlgren, David C.; Ma, William H.; and Revitz, Martin, 4,667,395, Cl. 29-591.000.
Ahlgren, David C.; Bendernagel, Robert E.; Lange, Russell C.; and Revitz, Martin, 4,701,998, Cl. 437-31.000.

Revlon, Inc.: *See—*
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Ekchian, Jack A.; Hoffman, Robert W.; Ekchian, Leon; and Gabriel, Kaigham J., 4,673,932, Cl. 340-825.540.
Gerstein, Terry, 4,714,610, Cl. 424-70.000.
Hoffman, Robert W., 4,675,690, Cl. 343-895.000.
Hofke, Fred, 4,672,973, Cl. 128-665.000.
Kabacoff, Bernard L.; Markrow, Fred; and Govil, Alok K., 4,665,741, Cl. 73-149.000.
Schefer, Eli I., 4,662,385, Cl. 132-88.500.

Revuelta, Arturo: *See—*
Covarrubias, David S.; Yassan, Reza M.; Covarrubias, Maria S.; and Revuelta, Arturo, 4,706,973, Cl. 279-1.0SJ.

Revuelta, Jose: *See—*
Covarrubias, David S.; Yassan, Reza M.; Covarrubias, Maria S.; and Revuelta, Arturo, 4,706,973, Cl. 279-1.0SJ.

Rewitzer, Siegfried, to Hoechst Aktiengesellschaft. Process for the automatic insertion of box-shaped bags. 4,687,462, 8-18-87, Cl. 493-100.000.

Rewoplan medizin-technische Einrichtungsgesellschaft mbH: *See—*
Hengstberger, Maria; Hengstberger, Herbert; and Monch, Harry, 4,633,865, Cl. 128-303.00R.

Rex, Dietrich: *See—*
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Rex, Donald K.: *See—*
Howes, James K.; Kluvo, Kenneth G.; Rex, Donald K.; and White, Graham M., 4,671,686, Cl. 400-605.000.
Nash, Dennis P.; Rex, Donald K.; Siegl, Ludwig R.; and Wussow, Wendy, 4,643,601, Cl. 400-216.100.

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Glomeau, J. Robert, 4,696,163, Cl. 60-476.000.

Rexair, Inc.: *See—*
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Erickson, Roy O., Jr., 4,693,734, Cl. 55-248.000.

Rexcel, Inc.: *See—*
Malsbury, Charles R.; and Lawrence, Richard R., 4,679,699, Cl. 220-307.000.

Rexer, Jurgen: *See—*
Fourty, Georges; Anderson, Eric; and Rexer, Jurgen, 4,657,049, Cl. 138-133.000.

Rexham Corporation: *See—*
Palmer, Emery A.; Shimanski, Michael A.; Ellison, Thomas M.; and Everidge, Jack P., 4,678,690, Cl. 428-31.000.

Rexnord Inc.: *See—*
Bradbury, Bernard G., 4,650,066, Cl. 198-832.000.
Butzow, Neil W.; Lambert, Gerald G.; and Tumidajewicz, Donald, 4,634,400, Cl. 464-88.000.
Cosenza, Frank J.; and Yamamoto, Albert K., 4,645,398, Cl. 411-438.000.
Counter, Louis F.; Callies, Fritz A.; and Lee, Phillip L., 4,643,291, Cl. 198-356.000.
Counter, Louis F.; Born, Richard C.; Walters, LeRoy M.; Ziese, Lowell B.; and Searing, Lawrence G., 4,714,917, Cl. 340-679.000.
Crandall, Robert E.; Kosulic, Kenneth F.; Rooney, Thomas C.; and Smith, Larry C., 4,681,033, Cl. 100-118.000.
Fredericks, Walter A.; and McCullough, Edward W., 4,690,661, Cl. 464-78.000.
Harmon, Raymond E., 4,691,952, Cl. 292-341.180.
Hodlewsky, Wasyly G., 4,711,605, Cl. 403-355.000.
Karra, Vijta K.; and Magerowski, Anthony J., 4,671,464, Cl. 241-21.000.
Krause, Lee; Szalanski, Scott; and Bechler, David J., 4,659,026, Cl. 241-275.000.
Leege, James W.; Stacey, Robert E.; and Uttke, Russell H. C., 4,682,687, Cl. 198-852.000.
Lorenz, Robert D., 4,708,483, Cl. 356-376.000.
Martin, Donald E., 4,664,243, Cl. 193-37.000.
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Plahmer, Thomas G., 4,658,638, Cl. 73-7.000.
Reece, Marvin P.; and Boote, Peter J., 4,676,482, Cl. 251-365.000.
Reece, Marvin P.; and Rosan, Jose, Jr., 4,712,955, Cl. 411-17.000.
Sawant, Ulhas S.; Karra, Vijta K.; and Kaja, Dean M., 4,697,745, Cl. 241-30.000.
Wobick, Robert F.; Anderson, William B.; Counter, Louis F.; and Dindinger, Phil M., 4,688,669, Cl. 198-712.000.

Rexroat, Gary D.: *See—*
Scott, Lawrence M.; and Rexroat, Gary D., 4,683,167, Cl. 428-328.000.

Rexroth-Sigma: *See—*
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Rexworks Inc.: *See—*
Riddle, Charles F., 4,668,122, Cl. 404-121.000.
Ritchey, Paul E.; and Jarboe, Joseph L., 4,688,963, Cl. 404-72.000.

Rey, Antoine; and Stemmler, Herbert, to BBC Brown, Boveri & Company, Limited. Method for attenuating at least one electric harmonic of the system frequency in a multi-phase alternating-current system. 4,680,531, 7-14-87, Cl. 323-206.000.

Rey, Aussedat: *See—*
Gidon, Georges; and Richard, Claude, 4,689,282, Cl. 430-39.000.

Rey-Bellet, Gerald: *See—*
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Rey, Francoise: *See—*
Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan, Mangalasseril G., 4,708,818, Cl. 435-5.000.

Rey, Paul A.: *See—*
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Rey, Pierre; Abbou, Clement; Leandri, Jacqueline; and Sezeur, Alain J. P. R., to Centre National de la Recherche Scientifique. Method for protecting human or animal organs against radiation. 4,714,074, 12-22-87, Cl. 128-1.100.

Rey, Susan P.: *See—*
Logan, Douglas P.; Cornelius, Thomas E., III; and Rey, Susan P., 4,634,532, Cl. 210-697.000.

Reye, Catherine: *See—*
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Sundermann, Erich; Reye, Hans; and Abel, Otto, 4,703,032, Cl. 502-413.000.
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Reyes, Angel A.: *See—*
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Reyes, Jaime; and Allred, David, to Energy Conversion Devices, Inc. Surface mounted circuits including hybrid circuits, having CVD interconnects, and method of preparing the circuits. 4,685,030, 8-4-87, Cl. 361-400.000.

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Reyloc Limited: *See—*
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Logel, Bernard; and Reymann, Jean-Charles, 4,654,508, Cl. 219-400.000.

Reyna, Johnny F. Electrical connection. 4,708,418, 11-24-87, Cl. 439-785.000.

Reynard, Kenneth, to George Blair PLC. Container locking. 4,648,636, 3-10-87, Cl. 292-39.000.
Reynard, Kenneth, to George Blair Public Limited Company. Location means for freight container door locking assemblies. 4,690,442, 9-1-87, Cl. 292-218.000.
Reynaud, Gary L.; and Allcorn, Calbert, to Yarbrough'o Machine Shop. Pallet dispenser. 4,701,092, 10-20-87, Cl. 414-115.000.
Reynaud, Jean-Louis, to Imaje S.A. Ink jet angularly-adjustable nozzle printhead. 4,714,932, 12-22-87, Cl. 346-75.000.
Reyner, Ellis M. Tamper resistant packaging device and closure. 4,645,078, 2-24-87, Cl. 206-524.800.
Reyner, Ellis M. Pressure generating apparatus and method. 4,646,946, 3-3-87, Cl. 222-386.500.
Reyner, Franklin C. Contraceptive device and related method. 4,696,294, 9-29-87, Cl. 128-131.000.
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Reynes, Enrique G.; and Leising, John O., to B.F. Goodrich Company, The. Process for stabilizing thiocarbamylsulfenamides. 4,639,517, 1-27-87, Cl. 544-85.000.
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Rea, Kenneth A.; and Reynolds, Alan H., 4,645,023, Cl. 180-9.320.
Reynolds, Albert B., Jr. Undulating mixing device. 4,702,610, 10-27-87, Cl. 366-213.000.
Reynolds, Albert H., III; McDaniel, Ernie C.; and Juhala, Roland E., to McDonnell Douglas Corporation. Laser doppler velocimeter with laser backscatter discriminator. 4,715,707, 12-29-87, Cl. 356-28.500.
Reynolds, Alvin E., to Kera Associates. Apparatus for corneal curvature adjustment. 4,671,276, 6-9-87, Cl. 128-305.000.
Reynolds, Bruce C.: *See*—
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Reynolds, Charles E.; and Whiteman, Robert N., to AMP Incorporated. Surface mount connector. 4,660,911, 4-28-87, Cl. 339-17.0LC.
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Reynolds, Desmond H. J.; and Taft, Phillip A., to Lucas Industries Public Limited Company. Control valve. 4,693,273, 9-15-87, Cl. 137-596.130.
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Reynolds, George A.: *See*—
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Reynolds, Harold G., to United Technologies Corporation. Integral refilmer lip for floatwall panels. 4,653,279, 3-31-87, Cl. 60-757.000.
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Reynolds, Martin L.; Frank, Dorothy M.; and Riehl, Tilford F., to Brown & Williamson Tobacco Corporation. Cigarette filter. 4,643,206, 2-17-87, Cl. 131-336.000.
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Reynolds, Peter H., to James G. Biddle Company. Insulation analyzer apparatus and method of use. 4,646,248, 2-24-87, Cl. 364-483.600.
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Reynolds, Robert W., to Perkin-Elmer Corporation, The. Programmable lamp plug. 4,670,813, 6-2-87, Cl. 361-395.000.
Reynolds, Robert W., to Perkin-Elmer Corporation, The. Grasping finger position sensor for a robot system. 4,682,805, 7-28-87, Cl. 294-86.400.
Reynolds, Roger G., to Weldex, Inc. Three phase high frequency spike welding system. 4,716,267, 12-29-87, Cl. 219-113.000.
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Reynolds, William R. Voltage and current limiting phase-triggered battery charger with continuous optimization of charging rate. 4,695,784, 9-22-87, Cl. 320-32.000.
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Rezanka, Ivan, to Xerox Corporation. Ink jet printer with integral electrohydrodynamic electrodes and nozzle plate. 4,658,269, 4-14-87, Cl. 346-75.000.
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Rhee, Chong-Kon, to Uniroyal Goodrich Tire Company, The. Process for making belted tires free of undertread cements. 4,647,328, 3-3-87, Cl. 156-128.100.
Rhee, Jhoon G. Karate glove. 4,635,300, 1-13-87, Cl. 2-16.000.
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Gay, Michel; and Millet, Claude, 4,636,552, Cl. 525-63.000.
Jenck, Jean; and Morel, Didier, 4,668,824, Cl. 568-15.000.
Le Coent, Jean-Louis, 4,698,170, Cl. 252-33.200.
Poulhes, Marie-Andree; Lafaille, Jean-Pierre; Pourrat, Jacques; and Sanchez, Victor, 4,655,898, Cl. 204-299.00R.
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Aloup, Jean C.; Bouchaudon, Jean; Farge, Daniel; and James, Barrere, Genevieve C.; Beydon, Marie-Helene; Drugeault, Lionel; and Vasseur, Jean-Pierre, 4,684,613, Cl. 435-301.000.
Barriere, Jean-Claude; Cotrel, Claude; and Paris, Jean-Marc, 4,668,669, Cl. 514-183.000.
Barriere, Jean-Claude; Corbet, Jean-Pierre; Cotrel, Claude; Farge, Daniel; and Paris, Jean-Marc, 4,686,309, Cl. 564-355.000.
Chabardes, Pierre; and Mulhauser, Michel, 4,636,570, Cl. 549-408.000.
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Cotrel, Claude; Guyon, Claude; Roussel, Gerard; and Taurand, Gerard, 4,642,308, Cl. 514-253.000.
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Dubroeucq, Marie-Christine; Le Fur, Gerard R.; and Renault, Christian L. A., 4,711,890, Cl. 514-311.000.
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Desbois, Michel, 4,695,657, Cl. 568-656.000.
DesBois, Michel; and Amiet, Louis, 4,701,551, Cl. 560-226.000.
Dien, Rene; and Poulain, Guy., 4,650,719, Cl. 428-422.800.
Dupin, Thierry, 4,640,908, Cl. 502-243.000.
Hess, Raoul; and Mirabel, Bernard, 4,668,441, Cl. 261-79.200.
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Jarry, Alain; Gozard, Jean-Pierre; Kennel, Yves; and Luccioni, Alain, 4,667,026, Cl. 536-114.000.
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Lebrun, Jean-Jacques; and Porte, Huques, 4,656,300, Cl. 556-412.000.
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Magnier, Claude, 4,673,663, Cl. 502-320.000.
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Porte, Huques; and Lebrun, Jean-Jacques, 4,694,060, Cl. 528-14.000.
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Francese, Catherine; Tordeux, Marc; and Wakselman, Cla
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252-182.000.

Regimbeau, Guy; Augelmann, Gerard; and Disdier, Camille, 4,701,560, Cl. 564-404.000.

Rhoton, Richard S., to Westinghouse Electric Corp. Transit vehicle door control apparatus. 4,656,950, 4-14-87, Cl. 105-341.000.

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Chion, Pierre; and Menault, Jacques, 4,681,595, Cl. 8-489.000.

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Weavers, Brian K., 4,643,595, Cl. 384-503.000.

Rhudy, John S.: *See*—
Argabright, Perry A.; and Rhudy, John S., 4,687,586, Cl. 252-8.551.

Rhum, David; and Matthews, Richard S., to Pfizer Hospital Products Group, Inc. Purification of glycolide. 4,650,851, 3-17-87, Cl. 528-354.000.

Rhum, Joseph D., to Pfizer Hospital Products Group, Inc. Coated suture. 4,649,920, 3-17-87, Cl. 128-335.500.

Rhyne, Earl C.; and Illingworth, Lewis, to Fiskars Electronics Corporation. DC to AC converter. 4,636,927, 1-13-87, Cl. 363-15.000.

Rhyne, Richard H., Jr. Fluorescent tracers for hydrophobic fluids. 4,659,676, 4-21-87, Cl. 436-56.000.

Rhyner, Michael J.; and Auyer, Walter L., to Hewlett-Packard Company. Front loading cartridge activated clamp and eject mechanism. 4,656,541, 4-7-87, Cl. 360-96.500.

Rhythm Motor Parts Mfg. Co., Ltd.: *See*—
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Riach, Richard L.: *See*—
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Rialan, Joseph; and Bary, Renate, to Institut Francais du Petrole. Process for controlling the storage of data received by a seismic recording system and a device for implementing same. 4,712,199, 12-8-87, Cl. 367-76.000.

Rialan, Joseph: *See*—
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Riaziat, Majid; and Zdasiuk, George A., to Varian Associates, Inc. Tapered five-port waveguide star junction. 4,642,587, 2-10-87, Cl. 333-125.000.

Rib Loc Hong Kong Limited: *See*—
Menzel, Stanley W. O., 4,687,690, Cl. 428-36.000.

Ribbans, Robert C., III: *See*—
Effenberger, John A.; Ribbans, Robert C., III; and Keese, Frank M., 4,654,235, Cl. 427-407.300.

Ribbing, Wilfried: *See*—
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Jadamus, Hans; Ribbing, Wilfried; Feinauer, Roland; and Schaefer, Wolfgang, 4,647,613, Cl. 524-504.000.
Jadamus, Hans; Ribbing, Wilfried; Feinauer, Roland; and Schafer, Wolfgang, 4,656,220, Cl. 524-502.000.
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Ribbon Technology Corporation: *See*—
Gaspar, Thomas A., 4,705,095, Cl. 164-463.000.

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Ribeiro, Adelman M.: *See*—
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Ribeiro, Jose-Marcos C.: *See*—
Mather, Thomas N.; Ribeiro, Jose-Marcos C.; and Spielman, Andrew, 4,662,104, Cl. 43-132.100.

Riberi, Bernd: *See*—
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Ribi ImmunoChem Research, Inc.: *See*—
Cantrell, John L., 4,663,306, Cl. 514-2.000.

Ribi, Valentino. Elastic suspension for the rear wheels of motor vehicles. 4,671,525, 6-9-87, Cl. 280-284.000.

Ribich, William A.: *See*—
Harvey, Andrew C.; Ribich, William A.; Marinaccio, Paul J.; and Sawaf, Bernard E., 4,709,453, Cl. 24-442.000.

Ribitsch, Gert: *See*—
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Riblet, Gordon P.; and Wilson, Ronald A., to Microwave Development Laboratories, Inc. Stub-supported transmission line device. 4,670,724, 6-2-87, Cl. 333-244.000.

Riblet, Robert L. Modular construction assembly for wall of court. 4,708,336, 11-24-87, Cl. 272-3.000.

Ribnitz, Peter. Electrostatic powder recovery installation. 4,647,298, 3-3-87, Cl. 55-334.000.

Riboli, Gianni, to Maschinenfabrik Sulzer-Ruti AG. Weft thread storage device for a weaving machine. 4,633,917, 1-6-87, Cl. 139-452.000.

Ribolla, G. Carlo; Taroni, Federico; Peiretti, Domenico; and Pepino, Antonio, to Leglertex s.r.l. Apparatus for detecting anomalies in corduroy preparation. 4,701,985, 10-27-87, Cl. 26-10.00C.

Ribrant, Sven, to Allmanna Brandreskapsaffaren AB. Hose clamp. 4,638,531, 1-27-87, Cl. 24-274.00R.

Ricard, Jacques J. L., to Ricard, Suoma; and Ricard, Thomas. Method of using immunizing commensals. 4,678,669, 7-7-87, Cl. 424-93.000.

Ricard, Suoma: *See*—
Ricard, Jacques J. L., 4,678,669, Cl. 424-93.000.

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Glover, Anthony R.; and Grigg, David W., 4,686,949, Cl. 123-306.000.
Monaghan, Michael L., 4,709,676, Cl. 123-383.000.

Ricchiero, Frederic, to Rhone-Poulenc Chimie de Base. Photoactivable bleaching/detergent composition. 4,668,418, 5-26-87, Cl. 252-95.000.

Ricchio, Dominic A. Method for improved water therapy. 4,635,620, 1-13-87, Cl. 128-64.000.

Ricchio, Dominic A. Apparatus for measurement of water conditions in a watermattress. 4,637,737, 1-20-87, Cl. 374-141.000.

Ricchio, Dominic A. Distributor for improved water therapy. 4,684,486, 8-4-87, Cl. 261-36.100.

Ricchio, Dominic A. Apparatus for improved water therapy. 4,713,853, 12-22-87, Cl. 5-451.000.

Ricci, Joseph T.: *See*—
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Ricci, Louis N.: *See*—
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White, William L.; Ricciardelli, Karin L.; and Chaguturu, Munirathnam K., 4,704,161, Cl. 71-106.000.

Ricciardelli, Robert H.; and Shulze, John E. Applicator structure for biological needle probes employing spiral-shaped retaining coils. 4,644,957, 2-24-87, Cl. 128-642.000.

Ricciardelli, Robert H., to Criticare Systems, Inc. Liquid separator for gas analyzer. 4,713,095, 12-15-87, Cl. 55-189.000.

Ricciardi, Charles E., to QSI Systems, Inc. Video-camera synchronizing system. 4,670,786, 6-2-87, Cl. 358-149.000.

Ricciardi, Ronald J., to Acrison, Inc. Wetting chamber. 4,643,582, 2-17-87, Cl. 366-102.000.

Ricciardi, Russell. Automobile maneuvering device. 4,687,070, 8-18-87, Cl. 180-74.000.

Riccio, Louis M.; and Bosna, Alexander A. Method and apparatus for applying metal cladding on surfaces and products formed thereby. 4,714,623, 12-22-87, Cl. 427-27.000.

Riccitelli, Constantino, to EG&G Sealol, Inc. Rotary mechanical fluid face seal with rigid restraint ring means. 4,669,739, 6-2-87, Cl. 277-89.000.

Riccitelli, Ivan, to Conti Paoli & Meritex S.r.l. Method and machine for knitting garments having legs and a body portion. 4,697,440, 10-6-87, Cl. 66-177.000.

Riccitiello, Salvatore R.; Hsu, Ming-Ta S.; and Chen, Timothy S., to United States of America, National Aeronautics and Space Administration. Preparation of B-trichloroborazine. 4,676,962, 6-30-87, Cl. 423-284.000.

Riccitiello, Salvatore R.; Smith, Marnell; Goldstein, Howard E.; and Zimmerman, Norman B., to United States of America, National Aeronautics and Space Administration. Ceramic/ceramic shell tile thermal protection system and method thereof. 4,713,275, 12-15-87, Cl. 428-76.000.

Rice, Billy J.: *See*—
Weathers, Gary G.; and Rice, Billy J., 4,637,470, Cl. 166-344.000.

Rice, Camilla A., to E.C.C. America Inc. Process for surface treating clay minerals and resultant products. 4,690,868, 9-1-87, Cl. 428-409.000.

Rice, Douglas N.: *See*—
Polansky, Jon L.; Rice, Douglas N.; Tomcanin, William J.; and Cribbs, Timothy B., 4,692,216, Cl. 201-1.000.

Rice, Gary W.; Fiato, Rocco A.; and Soled, Stuart L., to Exxon Research and Engineering Company. Promoted iron-carbon-based catalysts produced in the presence laser radiation. 4,659,681, 4-21-87, Cl. 502-5.000.

Rice, Gary W.; Fiato, Rocco A.; and Soled, Stuart L., to Exxon Research and Engineering Company. Iron carbide-based catalyst produced in the presence of laser radiation. 4,668,647, 5-26-87, Cl. 502-5.000.

Rice, Gary W.: *See*—
Fiato, Rocco A.; Rice, Gary W.; Miseo, Sabato; and Soled, Stuart L., 4,687,753, Cl. 502-5.000.

Rice, George. Apparatus for locating the outline of an accessory in dry wall or a decorative panel. 4,696,113, 9-29-87, Cl. 33-562.000.

Rice, Hal H., to General Motors Corporation. Foundry mold for cast-to-size zinc-base alloy. 4,702,304, 10-27-87, Cl. 164-529.000.

Rice, Ivan G. Process for directing a combustion gas stream onto rotatable blades of a gas turbine. 4,638,628, 1-27-87, Cl. 60-39.020.

Rice, James M.: *See*—
Rice, John E.; Rice, James M.; and Rice, Robert W., 4,712,230, Cl. 379-112.000.

Rice, James S.; and Klohn, William L. Wheelchair adapter wheel. 4,641,850, 2-10-87, Cl. 280-289.0WC.

Rice, John E.; Rice, James M.; and Rice, Robert W. Monitoring and recording apparatus for connection to a telephone line. 4,712,230, 12-8-87, Cl. 379-112.000.

Rice, Jon D.: *See*—
Miller, George E., Jr.; and Rice, Jon D., 4,658,818, Cl. 128-303.100.
Rice, Joseph. Apparatus for the identification of individuals. 4,699,149, 10-13-87, Cl. 128-664.000.
Rice, Joseph A., Jr.; McGregor, Douglas D.; Colegrove, Forrest D.; and Marton, Bela, to Texas Instruments Incorporated. Smart mine. 4,697,519, 10-6-87, Cl. 102-406.000.
Rice, Kenneth T., to A. O. Smith Corporation. Electrostatic powder spray gun nozzle. 4,660,772, 4-28-87, Cl. 239-704.000.
Rice, Larry: *See*—
Kaya, Azmi; and Rice, Larry, 4,704,805, Cl. 34-31.000.
Rice, Lawrence M.: *See*—
Morris, Merle E.; Rice, Lawrence M.; and Meade, Steven L., 4,710,676, Cl. 313-579.000.
Rice, Lyle: *See*—
Kellis, Warren D.; King, Daniel; and Rice, Lyle, 4,669,238, Cl. 52-105.000.
Rice, Mark; and Meisner, Douglas, to Interscan, Incorporated. Video viewfinder system. 4,692,006, 9-8-87, Cl. 354-75.000.
Rice, Mark S.; and Hunt, Paul D., to CACI, Inc. - Federal. Marine vessel and method for transporting a vehicle. 4,681,054, 7-21-87, Cl. 114-124.000.
Rice, Max, to Max Rice Corporation, The. Torso building exercise machine. 4,673,180, 6-16-87, Cl. 272-146.000.
Rice, Miles L.: *See*—
Casey, Thomas A.; Rice, Miles L.; Keough, William B.; Pothenbuhler, Dan E.; and Trimble, Bruce E., 4,647,928, Cl. 340-98.400.
Rice Multiphones, Inc.: *See*—
McAlevey, Richard J.; Muir, Malcolm D.; and van der Laan, Johan S., 4,691,345, Cl. 379-158.000.
Rice, Norman B. Lining removal process. 4,692,982, 9-15-87, Cl. 29-402.090.
Rice, Paul. Diagnostic patient support apparatus. 4,681,308, 7-21-87, Cl. 269-322.000.
Rice, Paul G.: *See*—
Grady, John K.; Rice, Paul G.; and Van Steenburg, Kip P., 4,649,560, Cl. 378-196.000.
Rice, Richard D., Jr. Centrifuge machine and rotor. 4,696,666, 9-29-87, Cl. 494-16.000.
Rice, Richard E., to Grady, John K. Rotating X-ray mask with sector slits. 4,646,339, 2-24-87, Cl. 378-146.000.
Rice, Robert G.: *See*—
Acocella, Richard A., 4,691,009, Cl. 84-322.000.
Rice, Robert R.; and Heidel, Jeffrey R., to McDonnell Douglas Corporation. Laser diode array with phase correction. 4,699,465, 10-13-87, Cl. 350-162.110.
Rice, Robert W.: *See*—
Rice, John E.; Rice, James M.; and Rice, Robert W., 4,712,230, Cl. 379-112.000.
Rice, Roy W., to United States of America, Navy. Hot rolling of ceramics by the use of self propagating synthesis. 4,642,218, 2-10-87, Cl. 419-11.000.
Rice, Roy W., to United States of America, Navy. BN coating of ceramic fibers for ceramic fiber composites. 4,642,271, 2-10-87, Cl. 428-698.000.
Rice, Roy W.; Kahn, Manfred; and Shadwell, Damian E., to Piezo Electric Products, Inc. Ceramic body with ordered pores. 4,683,161, 7-28-87, Cl. 428-178.000.
Rice, Steven J.; Thompson, Gilbert M.; Dolph, Michael W.; and Montoya, Daniel D., to Adolph Coors Company. Epoxy mixing and dispensing apparatus. 4,684,259, 8-4-87, Cl. 366-185.000.
Rice, Verle L.; Rafferty, Robert P.; and Keener, Richard A., to R. B. Industries, Inc. Precision saw with variable speed drive. 4,646,605, 3-3-87, Cl. 83-782.000.
Rice, Wayne K., to Vitamins, Inc. Method for carrying out extractions in subterranean well. 4,683,063, 7-28-87, Cl. 210-634.000.
Rice, Willard H.: *See*—
Domovs, Jean R.; and Rice, Willard H., 4,713,848, Cl. 4-480.000.
Rich, Brian G.; Patchell, John W.; and Harman, R. Keith, to Senstar Security Systems Corporation. Security system transmission line. 4,710,753, 12-1-87, Cl. 340-561.000.
Rich, Colin W. Refinishing unit. 4,685,385, 8-11-87, Cl. 98-115.200.
Rich, Donald R.: *See*—
Dearing, J. C.; and Rich, Donald R., 4,712,343, Cl. 52-221.000.
Rich, Donald S. Wire terminal. 4,686,326, 8-11-87, Cl. 174-87.000.
Rich, Gregory E.: *See*—
Giacomazzi, Roy A.; and Rich, Gregory E., 4,673,009, Cl. 141-198.000.
Rich, Hubert A.; Filoseta, Miva A.; and Ostendorff, Eric C., to Mattel, Inc. Toy vehicle with disc launching apparatus and disks. 4,659,320, 4-21-87, Cl. 446-435.000.
Rich, Jonathan D., to General Electric Company. Siliconarylozides and siliconarylisocyanates. 4,678,610, 7-7-87, Cl. 260-349.000.
Rich, Jonathan D., to General Electric Company. Silylation method and organic silanes made therefrom. 4,709,054, 11-24-87, Cl. 549-214.000.
Rich, Jonathan D.: *See*—
Policastro, Peter P.; and Rich, Jonathan D., 4,668,754, Cl. 528-26.000.
Rich, Joseph F.; Sabatella, Robert J.; and Shuttleworth, George L., to General Electric Company. Molded case circuit breaker modular support assembly. 4,646,198, 2-24-87, Cl. 361-346.000.
Rich, Joseph F.: *See*—
M'Sadoques, Andre J.; Rich, Joseph F.; and Shuttleworth, George L., 4,646,200, Cl. 361-355.000.
Rich, Larry D., to Minnesota Mining and Manufacturing Company. Sanding pad. 4,714,644, 12-22-87, Cl. 428-136.000.
Rich, Lawrence D., to Riverside International, Inc. Automotive roof spoiler having retractable, concealable lamps. 4,707,014, 11-17-87, Cl. 296-1.00S.
Rich, Leo G.: *See*—
Friedline, James G.; and Rich, Leo G., 4,644,284, Cl. 324-397.000.
Rich, Leonard G.; and Blake, Dale G., to Metromedia, Inc. Dynamically varying the pressure of fluid to an ink jet printer head. 4,651,161, 3-17-87, Cl. 346-1.100.
Rich, Leonard G.; and Blake, Dale G., to Metromedia Company. Hydraulic servomechanism for controlling the pressure of writing fluid in an ink jet printing system. 4,700,205, 10-13-87, Cl. 346-140.00R.
Rich, Russell; and Andersen, Joergen, to Radiometer A/S. Blood sampling device. 4,657,028, 4-14-87, Cl. 128-765.000.
Rich, William N., to Hamilton Standard Controls, Inc. Twist-in mounting for a thermostat. 4,653,708, 3-31-87, Cl. 248-27.100.
Richal Corporation: *See*—
Gurega, Richard R., 4,715,785, Cl. 417-1.000.
Richard, Christian J., to Thomson-CSF. Contrast amplifier for video images. 4,654,710, 3-31-87, Cl. 358-169.000.
Richard, Claude: *See*—
Gidon, Georges; and Richard, Claude, 4,689,262, Cl. 430-39.000.
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Billard, Georges; Blanchard, Francoise; Klemenz, Willy; Combet, Roger; and Richard, Daniel, 4,693,429, Cl. 242-18.00G.
Richard, Denis, to Automobiles Peugeot; and Automobiles Citroen. Suspension with variable flexibility and damping. 4,664,410, 5-12-87, Cl. 280-714.000.
Richard, Francis, deceased: *See*—
Schopfer, Pierre-Andre; Richard, Francis, deceased; Richard, Ofelia, legal representative; and Ducommun, Michele, legal representative, 4,658,953, Cl. 198-757.000.
Richard, Fred V.; Hickernell, Fred S.; and Cho, Frederick Y., to Motorola, Inc. Optical waveguide including superstrate of niobium or silicon oxynitride and method of making same. 4,701,008, 10-20-87, Cl. 350-96.120.
Richard, Fred V.: *See*—
Cho, Frederick Y.; Hickernell, Fred S.; and Richard, Fred V., 4,652,290, Cl. 65-31.000.
Hartman, Davis H.; and Richard, Fred V., 4,636,646, Cl. 250-551.000.
Richard, Harold S.: *See*—
Granzow, Robert H.; Richard, Harold S.; and Hermann, Thomas L., 4,645,153, Cl. 248-178.000.
Richard Hirschmann Radiotechnisches Werk: *See*—
Zierhut, Hermann, 4,645,930, Cl. 250-342.000.
Zierhut, Hermann, 4,670,655, Cl. 250-342.000.
Zierhut, Hermann, 4,702,449, Cl. 248-288.300.
Richard Jansen GmbH: *See*—
Jansen-Herfeld, Roettger, 4,682,525, Cl. 83-751.000.
Richard, Jean P.: *See*—
Bullen, Ronald S.; Mzik, Joseph; and Richard, Jean P., 4,701,270, Cl. 252-8.551.
Richard, Joseph: *See*—
Coissard, Pierre; Richard, Joseph; and Morin, Francois, 4,689,116, Cl. 156-651.000.
Richard, Joseph D. Self-destruct fish hook. 4,715,142, 12-29-87, Cl. 43-43.160.
Richard Kablitz GmbH & Co. KG: *See*—
Weiss, Manfred, 4,638,905, Cl. 198-774.000.
Richard, Matthew D., to Scott & Fetzer Company, The. Bi-directional advance gear having a torque limiting clutch. 4,702,122, 10-27-87, Cl. 74-412.0TA.
Richard McLaughlin: *See*—
Greene, Herbert, deceased, 4,654,009, Cl. 434-185.000.
Richard, Michelle M.: *See*—
Chiang, Peter K.; Richard, Michelle M.; Padilla, Felipe N.; Carroll, Frank I.; and Abraham, Philip, 4,713,391, Cl. 514-412.000.
Richard, Ofelia, legal representative: *See*—
Schopfer, Pierre-Andre; Richard, Francis, deceased; Richard, Ofelia, legal representative; and Ducommun, Michele, legal representative, 4,658,953, Cl. 198-757.000.
Richard Percival Fearnley: *See*—
Lyons, Nicholas L., 4,651,620, Cl. 87-12.000.
Richard, Philippe; Papillon, Jean-Charles; Guyot, Alain; and Corbellini, Carlo, to Commissariat a l'Energie Atomique. Hydropneumatic accumulator. 4,638,838, 1-27-87, Cl. 138-30.000.
Richard, Pierre, to Bouygues. Bridge truss, bridge span including such trusses, and method of constructing the truss. 4,642,830, 2-17-87, Cl. 14-4.000.
Richard, Pierre, to Bouygues. Concrete structure, block for making such structure and method of making such structure. 4,648,223, 3-10-87, Cl. 52-223.00R.
Richard, Pierre, to Bouygues. Ballastable concrete base for an offshore platform. 4,653,959, 3-31-87, Cl. 405-195.000.
Richard, Pierre, to Bouygues. Concrete structural elements, process and device for manufacturing these elements. 4,694,622, 9-22-87, Cl. 52-223.00R.
Richard, Robert, to Cegedur Societe de Transformation de l'Aluminium Pechiney. Apparatus for continuously brushing and lubricating rolls of rolling mills for flat rolled products. 4,653,303, 3-31-87, Cl. 72-236.000.

ichard, Thomas J.; and Miller, William H., to Monsanto Company. Preparation of N-substituted amino acids. 4,684,483, 8-4-87, Cl. 260-502.50F.
ichard, Thomas J.: *See*—
Most, James T.; and Richard, Thomas J., 4,661,614, Cl. 558-346.000.
ichard Wolf GmbH: *See*—
Ams, Felix; Bolg, Ulrich; and Wurster, Helmut, 4,688,087, Cl. 358-100.000.
Bonnet, Ludwig, 4,653,476, Cl. 128-4.000.
Bonnet, Ludwig; and Hiltebrandt, Siegfried, 4,686,965, Cl. 128-4.000.
Bonnet, Ludwig, 4,686,984, Cl. 128-343.000.
Diener, Jorg; and Bitrolf, Ehrenfried, 4,640,124, Cl. 73-116.000.
Heimberger, Rudolf, 4,643,190, Cl. 128-321.000.
Hiltebrandt, Siegfried, 4,682,585, Cl. 128-4.000.
Hutterer, Frieder; Buess, Gerd; and Boebel, Manfred, 4,641,652, Cl. 128-334.00R.
Hutterer, Frieder; Buess, Gerd; and Boebel, Manfred, 4,683,885, Cl. 128-334.00R.
Riedlinger, Rainer, 4,639,904, Cl. 367-140.000.
Zobel, Jurgen, 4,702,229, Cl. 128-4.000.
Richardon, Robert: *See*—
Barker, Antony T.; Giles, Simon C.; and Richardon, Robert, 4,704,543, Cl. 307-106.000.
Richards, Alton; and Nitzberg, Leonard R., to Richards Industries, Inc. Breakaway hose coupling device. 4,674,525, 6-23-87, Cl. 137-68.100.
Richards, Brian T., to Cadbury Limited. Apparatus for making a confection including a depositing means and conveyor carried molds. 4,637,788, 1-20-87, Cl. 425-4.00R.
Richards, Byron A., to Welch Allyn, Inc. Ophthalmoscope with automatic lens shifting mechanism. 4,643,546, 2-17-87, Cl. 351-205.000.
Richards, Chester L., Sr. Photography pin board system. 4,636,067, 1-13-87, Cl. 355-91.000.
Richards, Chester L., Sr. Vacuum printing frame. 4,704,028, 11-3-87, Cl. 355-92.000.
Richards, Elmer A., to Eaton Corporation. Blocked jaw clutch assembly. 4,703,667, 11-3-87, Cl. 74-339.000.
Richards, Elmer A., to Eaton Corporation. Herringbone geared multiple load sharing countershaft transmission. 4,709,590, 12-1-87, Cl. 74-331.000.
Richards, Gerald P.; and Renard, Andre M., to Raytheon Company. Frequency correction apparatus. 4,684,897, 8-4-87, Cl. 328-162.000.
Richards, Gil F.: *See*—
Chang, Manchium; Colvin, Michael S.; Rembaum, Alan; and Richards, Gil F., 4,707,523, Cl. 525-372.000.
Richards, Harvey J.: *See*—
Goel, Anil B.; and Richards, Harvey J., 4,652,655, Cl. 548-217.000.
Goel, Anil B.; Grimm, Robert A.; Blackburn, Peggy A.; and Richards, Harvey J., 4,657,815, Cl. 428-403.000.
Goel, Anil B.; and Richards, Harvey J., 4,698,408, Cl. 528-48.000.
Goel, Anil B.; and Richards, Harvey J., 4,698,416, Cl. 528-389.000.
Richards Industries, Inc.: *See*—
Richards, Alton; and Nitzberg, Leonard R., 4,674,525, Cl. 137-68.100.
Richards, James C.; and Taylor, Robert B., to Du Pont de Nemours, E. I., and Company. Self-contained device for carrying out specific binding assays. 4,657,869, 4-14-87, Cl. 435-287.000.
Richards, John O.; and Graef, John, to Universal Extension Corporation. Handle extension. 4,683,610, 8-4-87, Cl. 16-115.000.
Richards, John R., to Pilling Co. Termination for light-conducting cable. 4,697,870, 10-6-87, Cl. 350-96.200.
Richards, John S.: *See*—
Kubert, Vince T.; and Richards, John S., 4,709,635, Cl. 101-426.000.
Richards, Kenneth: *See*—
Tatt, Christopher F.; Richards, Kenneth; and Chamberlain, Michael R., 4,657,783, Cl. 427-211.000.
Richards Medical Company: *See*—
Baswell, Imogene; Walsh, Kimberly; and Benz, Eric, 4,704,126, Cl. 623-10.000.
Bays, F. Barry; Dunn, Richard L.; Marchand, Sam; and Treharne, Richard W., III, 4,650,488, Cl. 623-12.000.
Heide, Jorgen, 4,679,240, Cl. 381-68.600.
Miller, Scott; and Frazier, Vann, 4,671,290, Cl. 128-681.000.
Taylor, Harold S.; and Taylor, John C., 4,667,664, Cl. 128-92.0VV.
Wheeler, C. Ray, 4,660,267, Cl. 29-437.000.
Richards Medical France, S.A.R.L.: *See*—
Legrand, Raymond, 4,676,799, Cl. 623-22.000.
Richards, Peter S. Overhead hanger and joint construction. 4,667,916, 5-26-87, Cl. 248-343.000.
Richards, Peter S. Connector assembly for securing cables, pipes, or the like to a support structure. 4,679,754, 7-14-87, Cl. 248-68.100.
Richards, Peter S. Joint construction and overhead hanger. 4,691,889, 9-8-87, Cl. 248-343.000.
Richards, Powell; Mausner, Leonard F.; and Prach, Thomas F., to United States of America, Energy. Beryllium-7 labeled carbon particles and method of making. 4,707,322, 11-17-87, Cl. 376-194.000.
Richards, Randall G., to Drackett Company, The. Toilet tank dispenser. 4,709,423, 12-1-87, Cl. 4-228.000.
Richards, Roger H., to R. H. Richards Mfg., Inc. Windshield shade. 4,652,039, 3-24-87, Cl. 296-97.00R.
Richards, Walter L., to Methane Drainage Ventures. Process for recovering methane gas from subterranean coalseams. 4,651,836, 3-24-87, Cl. 175-62.000.
Richards, Walter L.; Henderson, Roger L.; Aul, George N.; and Pauley, Barry W., to Methane Drainage Ventures. Production and grout liner for methane drainage in subterranean boreholes and method. 4,687,060, 8-18-87, Cl. 166-285.000.
Richards, Walter L.; Henderson, Roger L.; Aul, George N.; and Pauley, Barry W., to Methane Drainage Ventures. Process for establishing a clear horizontal borehole in a subterranean formation. 4,691,789, 9-8-87, Cl. 175-62.000.
Richards, William: *See*—
Russo, Manuel A.; and Richards, William, 4,655,095, Cl. 73-864.830.
Richards, William D.; and Lichtman, Philip R., to Acufex Microsurgical, Inc. Surgical fastener. 4,669,473, 6-2-87, Cl. 128-334.00C.
Richardson, Anthony C.: *See*—
French, Hartley A.; and Richardson, Anthony C., 4,714,888, Cl. 324-326.000.
Richardson, Anthony D. Combination measuring device, level and plumb. 4,660,292, 4-28-87, Cl. 33-451.000.
Richardson, Bernard E.: *See*—
Salaman, William; and Richardson, Bernard E., 4,683,796, Cl. 84-380.00C.
Richardson, Brian E. Gripping device. 4,662,039, 5-5-87, Cl. 24-489.000.
Richardson, Bruce A., to Northern Telecom Limited. Direct coupled FET logic using a photodiode for biasing or level-shifting. 4,701,646, 10-20-87, Cl. 307-570.000.
Richardson, C. Patrick: *See*—
Gasparaitis, Bernard V.; and Richardson, C. Patrick, 4,641,925, Cl. 350-345.000.
Richarcson, Charles P.; Kuhl, Virgil; Gasparaitis, Bernard; Staple, Bruce; and Krieg, Larry M., to Motorola, Inc. Microphone. 4,679,233, 7-7-87, Cl. 379-433.000.
Richardson Chemical Company: *See*—
Malik, Michael; and Greene, Joseph L., 4,659,605, Cl. 427-129.000.
Richardson, Craig A.: *See*—
Krambeck, Frederick C.; Richardson, Craig A.; and Walters, James C., 4,644,738, Cl. 56-259.000.
Richardson, Daniel E., to Shure Manufacturing Corporation. Pass-through transaction drawer with removable deal tray. 4,640,200, 2-3-87, Cl. 109-19.000.
Richardson, David A.: *See*—
Flanagan, Allan L.; and Richardson, David A., 4,658,348, Cl. 364-146.000.
Flanagan, Allan L.; and Richardson, David A., 4,704,676, Cl. 364-146.000.
Richardson, David G.: *See*—
Sparling, Kenneth P.; Richardson, David G.; Incardona, Angelo; Wood, Ronald E.; Kikendall, Garth D.; and Bakow, Leon, 4,678,384, Cl. 411-43.000.
Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,681,499, Cl. 411-507.000.
Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,695,213, Cl. 411-506.000.
Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,712,958, Cl. 411-506.000.
Richardson, David J.: *See*—
Banks, Edward J. K.; and Richardson, David J., 4,635,053, Cl. 340-825.310.
Richardson, Dean L.: *See*—
Gibson, Phillip R.; and Richardson, Dean L., 4,704,817, Cl. 43-57.300.
Richardson, Don. Combined story pole and elevation rod. 4,662,077, 5-5-87, Cl. 33-296.000.
Richardson, Edwin A., to Shell Oil Company. Determining residual oil saturation by injecting salts of carbonic and halocarboxylic acids. 4,646,832, 3-3-87, Cl. 166-250.000.
Richardson, Elvet M.; and Sim, Teik P. Waste heating recovery system. 4,680,941, 7-21-87, Cl. 62-184.000.
Richardson, Eugene M.; Brehm, Norbert O.; and Null, Larry G., to LTV Energy Products Company. Brake system for drawworks. 4,696,377, 9-29-87, Cl. 188-170.000.
Richardson, Geoffrey: *See*—
Kubicki, Philip; and Richardson, Geoffrey, 4,712,463, Cl. 84-304.000.
Richardson, Graham, to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Immersion suits. 4,633,526, 1-6-87, Cl. 2-2.10R.
Richardson, J. Mark: *See*—
Duncan, Richard L.; Lynch, Michael J.; Forehand, Gilbert H.; White, Billy W.; and Richardson, J. Mark, 4,663,628, Cl. 340-853.000.
Richardson, John C.; and Salame, Morris, to Monsanto Company. Hollow copolyamide article. 4,696,865, 9-29-87, Cl. 428-474.400.
Richardson, John R., and Kerr, Joseph H., to United States of America, National Aeronautics and Space Administration. Photorefractor ocular screening system. 4,669,836, 6-2-87, Cl. 351-206.000.
Richardson, Joyce, legal heir: *See*—
Richardson, Norman, deceased; Clubley, Brian G.; and Dellar, Richard J., 4,666,967, Cl. 524-130.000.
Richardson, Kenneth; and Whittle, Peter J., to Pfizer Inc. Triazole antifungal agents. 4,638,007, 1-20-87, Cl. 514-340.000.
Richardson, Kenneth; and Whittle, Peter J., to Pfizer Inc. Triazole antifungal agents. 4,678,789, 7-7-87, Cl. 514-262.000.

Richardson, Kenneth: *See—*
Gymer, Geoffrey E.; and Richardson, Kenneth, 4,661,507, Cl. 514-383.000.

Richardson, Kenneth J., to Crystaloid Electronics Company. Dichroic dye-nematic liquid crystal mirror. 4,660,937, 4-28-87, Cl. 350-349.000.

Richardson, Lucy V.: *See—*
Banner, Beatrice A.; Richardson, Lucy V.; and Darley, Kenneth S., 4,675,197, Cl. 426-292.000.

Richardson, Michael M.; and Schaffer, Douglas A., to Kroy Inc. Tape supply cartridge. 4,678,353, 7-7-87, Cl. 400-248.000.

Richardson, Neil, to Fairchild Camera and Instrument Corporation. Electron beam test probe system for analyzing integrated circuits. 4,706,019, 11-10-87, Cl. 324-158.00R.

Richardson, Norman; Holt, Brian; and Cook, Barry. Cotelomer compounds. 4,681,686, 7-21-87, Cl. 210-699.000.

Richardson, Norman: *See—*
Clubley, Brian G.; Dellar, Richard J.; Buszard, David L.; and Richardson, Norman, 4,656,200, Cl. 521-108.000.
Cook, Barry; Richardson, Norman; and Tames, Joseph, 4,689,200, Cl. 422-15.000.

Richardson, Norman, deceased (by Richardson, Joyce, legal heir); Clubley, Brian G.; and Dellar, Richard J., to Ciba-Geigy Corporation. Flame retardants for polyurethanes. 4,666,967, 5-19-87, Cl. 524-130.000.

Richardson, Orland W. Screen printing head assembly. 4,649,815, 3-17-87, Cl. 101-126.000.

Richardson, Paul D., to International Paper Company. Dispensing carton for plastic bags. 4,714,191, 12-22-87, Cl. 229-121.000.

Richardson, Paul F.; and Bhattacharyya, Bhupati R., to Nalco Chemical Company. Acrylamide diallyl dimethyl ammonium chloride copolymers as improved dewatering acids for mineral processing. 4,673,511, 6-16-87, Cl. 210-734.000.

Richardson, Paul F.; Connelly, Lawrence J.; Fong, Dodd W.; and Kaesler, Ralph W., to Nalco Chemical Company. Sulphonate-containing terpolymers as flocculants for suspended solids. 4,704,209, 11-3-87, Cl. 210-734.000.

Richardson, Ray O.; Bromirski, Anthony F.; and Davis, Lois T., to Sybron Chemicals Holdings Inc. Liquid cleaner containing viable microorganisms. 4,655,794, 4-7-87, Cl. 51-293.000.

Richardson, Richard J.: *See—*
Stromquist, Michael E.; and Richardson, Richard J., 4,671,582, Cl. 439-31.000.

Richardson, Richard W., to Ohio State University Research Foundation, The. Electrode support for gas arc welding torch having coaxial vision. 4,644,131, 2-17-87, Cl. 219-124.340.

Richardson, Robert, to Marconi Company Limited, The. Transformer with balanced transmission lines. 4,689,593, 8-25-87, Cl. 336-90.000.

Richardson, Robert G., to Ex-Cell-O Corporation. Automatic basket bail opening machine. 4,702,061, 10-27-87, Cl. 53-381.00R.

Richardson, Robert O., to United States of America, Army. Beadbreaker apparatus and method of using. 4,646,806, 3-3-87, Cl. 157-1.170.

Richardson, Steven D., to United States of America, Navy. Explosion suppression system. 4,702,322, 10-27-87, Cl. 169-28.000.

Richardson, Truman R., to General Motors Corporation. Warning system for vehicle air dam. 4,683,974, 8-4-87, Cl. 180-274.000.

Richardson-Vicks Inc.: *See—*
Hawkins, Geoffrey R.; and Kowcz, Oksana A., 4,656,043, Cl. 424-70.000.
Sheth, Bhogilal B.; Gilbert, Sheri A.; and Kinsel, Jane F., 4,666,716, Cl. 424-195.100.
Sunshine, Abraham; Laska, Eugene M.; and Siegel, Carole E., 4,683,243, Cl. 514-557.000.

Richardson-Vicks Limited: *See—*
Maes, Daniel; and Brudney, Norman, 4,705,681, Cl. 424-70.000.

Richardson, Walter L., to Northern Telecom Limited. Adjustable conveyor assembly for regular periodic transverse movement of a longitudinally moving conveyor belt. 4,645,066, 2-24-87, Cl. 198-631.000.

Richart, Douglas S.; and Horinka, Paul R., Jr. Method for powder coating with electrostatic fluidized bed. 4,689,241, 8-25-87, Cl. 427-28.000.

Richart, Jene A., to Exxon Production Research Co. Fluid control line switching methods and apparatus. 4,660,647, 4-28-87, Cl. 166-386.000.

Richart, Stephen D.: *See—*
Arbogast, William C., Jr.; Boutcher, Andrew G., Jr.; Folk, Kenneth F.; Richart, Stephen D.; and Ross, Milton D., 4,649,636, Cl. 29-861.000.

Richarz, Winfried: *See—*
Graf, Hermann; Rentzea, Costin; Richarz, Winfried; Froehlich, Helmut; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,663,324, Cl. 514-247.000.
Jahn, Dieter; Becker, Rainer; Keil, Michael; Richarz, Winfried; Siegel, Hardo; Spiegler, Wolfgang; and Wuerzer, Bruno, 4,654,073, Cl. 71-88.000.

Richdel Div. of Garden America Corp.: *See—*
Saarem, Myrl J.; and Lovelace, Donald E., 4,650,118, Cl. 239-206.000.
Saarem, Myrl J., 4,671,485, Cl. 251-30.030.

Richenbacher, Alan G.: *See—*
Gilbert, Jeffrey G.; Richenbacher, Alan G.; and Smar, Eugene R., 4,651,019, Cl. 307-43.000.

Riches, Arthur J., to Amphenol Corporation. Electrical connection devices. 4,699,442, 10-13-87, Cl. 439-412.000.

Richey, Alvin. Floating breakwater. 4,715,744, 12-29-87, Cl. 405-26.000.

Richey, Daniel D.: *See—*
Ogle, Douglas R.; Richey, Daniel D.; and Whitehurst, James L., 4,707,616, Cl. 290-48.000.

Richey, Forrest A., Jr.: *See—*
Hoy, Kenneth L.; and Richey, Forrest A., Jr., 4,677,168, Cl. 525-441.000.

Richman, Jay L., to Allied Corporation. Peltier junction used for thermal control of solid state devices. 4,685,081, 8-4-87, Cl. 365-1.000.

Richmond, Carl T.; and Lester, Joseph O., to Motorola, Inc. Moving target indicator using a surface acoustic wave device. 4,682,174, 7-21-87, Cl. 342-160.000.

Richmond, Carleton R., Jr. Measurement method and apparatus. 4,712,308, 12-15-87, Cl. 33-472.000.

Richmond, Clark S.; Thomas, Joyce K.; and Hohulin, Samuel E., to National Union Electric Corp. Lightweight battery powered suction broom. 4,665,582, 5-19-87, Cl. 15-344.000.

Richmond, Donald W.; Clyne, Carl W.; and Holben, Tod M., to Anheuser-Busch, Incorporated. Pasteurization process. 4,693,902, 9-15-87, Cl. 426-407.000.

Richmond, Doug: *See—*
Reid, Iain K.; Staite, Eric; Richmond, Doug; and Rumbelow, George, 4,637,667, Cl. 312-217.000.

Richmond, Douglass S., to Kendall McGaw Laboratories, Inc. Sterilant additive holder for CAPD sets. 4,642,091, 2-10-87, Cl. 604-29.000.

Richmond, James C., to Thermo Electric Instruments. Temperature sensing device. 4,707,148, 11-17-87, Cl. 374-208.000.

Richmond, James W.; Tice, Robert G.; and Booth, William M., III, to Stryker Corporation. Vacuum wound drainage system and lipid baffle therefor. 4,655,754, 4-7-87, Cl. 604-323.000.

Richmond, James W.: *See—*
Smock, Steven W.; and Richmond, James W., 4,636,595, Cl. 200-38.00R.

Richmond, John W., to AE PLC. Bearing surface for internal combustion engine piston skirt. 4,715,267, 12-29-87, Cl. 92-232.000.

Richmond, Martin R.; and Hayner, Mark A., to Sanders Associates, Inc. Pneumatic time delay valve. 4,646,644, 3-3-87, Cl. 102-530.000.

Richmond, Michael S.: *See—*
Bachman, Brett L.; Bernstein, David H.; Bratt, Richard G.; Clancy, Gerald F.; Gavrin, Edward S.; Gruner, Ronald H.; Jones, Thomas M.; Katz, Lawrence H.; Mundie, Craig J.; Pilat, John F.; Richmond, Michael S.; Schleimer, Stephen I.; Wallach, Steven J.; and Wallach, Walter A., Jr., 4,656,579, Cl. 364-200.000.
Gruner, Ronald H.; Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; Gavrin, Edward S.; Wallach, Walter A., Jr.; Ahlstrom, John K.; Richmond, Michael S.; Bernstein, David H.; Pilat, John F.; Farber, David A.; and Belgard, Richard A., 4,675,810, Cl. 364-200.000.
Wallach, Walter A., Jr.; Richmond, Michael S.; Ahlstrom, John K.; Bernstein, David H.; and Bratt, Richard G., 4,661,903, Cl. 364-200.000.

Richmond Screw Anchor Co. Inc.: *See—*
Lancelot, Harry B., 4,671,554, Cl. 294-89.000.

Richon, Dominique; and Laugier, Serge, to Association pour la Recherche et le Developpement des Methodes et Processus Industriels (A.R.M.I.N.E.S.). Automatic pressurized fluid micro-sampling and injection device. 4,688,436, 8-25-87, Cl. 73-864.810.

Richoux, Raymond. Flexible-tube device for transmitting longitudinal forces. 4,690,014, 9-1-87, Cl. 74-501.00R.

Richter, Alvin C., Jr., to Navistar International Corporation. Reclining bunk for sleeper. 4,669,139, 6-2-87, Cl. 5-118.000.

Richter, Bernd: *See—*
Bieber, Oswald; Haas, Erich; Henglein, Rudolf; and Richter, Bernd, 4,693,277, Cl. 138-89.000.

Richter, Donald L., to Temcor. Shelter roof structure. 4,685,257, 8-11-87, Cl. 52-73.000.

Richter, Donald L., to Temcor. Large span dome. 4,711,063, 12-8-87, Cl. 52-741.000.

Richter Gedeon Vegyeszeti Gyar RT: *See—*
Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jozsa, Ferenc; Horvath, Gyula; and Tomori nee Jozst, Eva, 4,703,036, Cl. 514-18.000.
Bernath, Gabor; Kobor, Jeno; Fulop, Ferenc; Motika, Gabor; Sohajda, Attila; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,654,351, Cl. 514-307.000.
Bernath, Gabor; Kobor, Jene; Fulop, Ferenc; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,656,179, Cl. 514-307.000.
Bernath, Gabor; Kobor, Jeno; Fulop, Ferenc; Perjesi, Pal; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,668,688, Cl. 514-307.000.
Bernath, Gabor; Kobor, Jeno; Lazar, Janos; Motika, Gabor; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,677,109, Cl. 514-259.000.
Boros, Imre; Venetianer, Pal; and Posfai, Gyorgy, 4,703,012, Cl. 435-320.000.
Ezer, Elemer; Harsanyi, Kalman; Vikar nee Petho, Hajnalka; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas nee Pap, Marta; Kallay nee Sohonyai, Anna, 4,691,017, Cl. 546-298.000.
Ezer, Elemer; Harsanyi, Kalman; Petho, Hajnalka V.; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas, Marta; and Kallay, Anna, 4,713,388, Cl. 514-346.000.

Keve, Tibor; Zsadon, Bela; Fekete, Gyorgy; Galambos, Janos; Barta nee Bukovecz, Margit; Szporny, Laszlo ; Forgacs, Lilla; Kiraly, Arpad; Soos, Gyongyver; Kiss, Bela; and Zajer nee Balazs, Maria, 4,680,397, Cl. 546-51.000.

Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo; and Heil, Balint, 4,710,323, Cl. 260-543.00R.

Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo ; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.

Megyeri, Gabor; Keve, Tibor; Galambos, Janos; Kovacs, Lajos, Jr.; Stefko, Bela; Bogsch, Erik; and Trischler, Ferenc, 4,697,017, Cl. 544-346.000.

Nagy, Geza T.; Szepesi, Gabor; Gazdag, Maria; Papp nee Sziklay, Zsofia; and Burger, Kalman, 4,684,638, Cl. 514-185.000.

Nyeki nee Kuprina, Olga; Kisfaludy, Lajos; Szeberenyi nee Szalay, Katalin; Makara, Gabor; Varga, Bertalan; Karpati, Egon; and Szporny, Laszlo , 4,672,054, Cl. 514-16.000.

Perjes, Istvan; Szporny, Laszlo; Selmeczi, Andras; Vereczkey, Laszlo; Klebovich, Imre; Toth, Edit; Hajos, Gyorgy; Torley, Jozsef; Simon, Ferenc; Sarkozy, Peter; and Misley, Attila, 4,659,712, Cl. 514-249.000.

Pungor, Erno; Toth, Klara S.; Feher, Zsofia; Nagy, Geza; and Horvai, Gyorgy, 4,673,205, Cl. 356-440.000.

Solyom, Sandor; Toldy, Lajos; and Szilagyi nee Farago, Katalin, 4,668,437, Cl. 260-397.400.

Szantay, Csaba; Honty, Katalin; Szabo, Lajos; Keve, Tibor; and Acs, Tibor, 4,659,816, Cl. 540-478.000.

Szemler, Laszlo; Pechany, Eva C.; Langer, Maria; Hruby, Gyula; and Sike, Valeria, 4,659,661, Cl. 435-86.000.

Toth, Edit; Torley, Jozsef; Palosi, Eva; Szeberenyi, Szabolcs; Szporny, Laszlo; Gorog, Sandor; and Hajdu, Istvan, 4,645,774, Cl. 514-317.000.

Toth, Edit; Torley, Jozsef; Fekete, Gyorgy; Szporny, Laszlo; Vereczkey, Laszlo; Palosi, Eva; Klebovich, Imre; Vittay, Pal; Gorog, Sandor; and Hajdu, Istvan, 4,645,779, Cl. 514-648.000.

Richter, Georg-Gerd; and Kreatz, Alfons O. Smokestack or tower of precast reinforced concrete modules. 4,672,782, 6-16-87, Cl. 52-218.000.

Richter, George N.; and Slater, William L., to Texaco Inc. Process for operating a gas generator. 4,676,805, 6-30-87, Cl. 48-197.00R.

Richter, George N., to Texaco Inc. Process for upgrading water used in cooling and cleaning of raw synthesis gas. 4,704,137, 11-3-87, Cl. 48-197.00R.

Richter, Gerhard; and Barten, Axel. Rolling mill stand for strip-shaped material. 4,691,548, 9-8-87, Cl. 72-21.000.

Richter, Gerhard: *See*—
Reutler, Harald; Loser, Wolfgang; Muhlbach, Heinz; Richter, Gerhard; and Stephani, Gunter, 4,660,622, Cl. 164-463.000.

Richter, Gunter; and Froschle, Reinhard, to Maschinenfabrik Gehring Gesellschaft mit beschrankter Haftung & Co. Kommanditgesellschaft. Method and apparatus for displacing a honing tool. 4,679,357, 7-14-87, Cl. 51-281.00P.

Richter, Hanno; Mirsberger, Helmut; Uhlig, Raimer; Haage, Manfred; and Uebel, Philipp, to Hilti Aktiengesellschaft. Expansion dowel assembly. 4,708,551, 11-24-87, Cl. 411-32.000.

Richter, Hans, to Blomberg Robotertechnik GmbH. Robot arm. 4,708,578, 11-24-87, Cl. 414-720.000.

Richter, Hans-Peter, to Robert Bosch GmbH. Electronic circuit apparatus for separating the luminance and color information of a color television signal. 4,641,180, 2-3-87, Cl. 358-31.000.

Richter, Hans-Peter, to Robert Bosch GmbH. Apparatus for decoding a PAL standard color television signal. 4,706,110, 11-10-87, Cl. 358-19.000.

Richter, Harald: *See*—
Frei, Urs; Richter, Harald; and Statt, Donald, 4,684,276, Cl. 400-630.000.

Richter, Herbert, to Herbert Richter, Metallwaren-Apparatebau GmbH & Co. Magazine for recording tape cassettes. 4,678,081, 7-7-87, Cl. 206-387.000.

Richter, Herbert P.; Henry, Ronald A.; and Johnson, Joseph H. Chemiluminescent systems. 4,655,969, 4-7-87, Cl. 252-700.000.

Richter, Johan C. F. C.; and Richter, Ole J., to Kamyr AB. Reciprocal movable screens in a vertically elongated vessel. 4,637,878, 1-20-87, Cl. 210-388.000.

Richter, Johannes, to M.A.N. Roland Druckmaschinen Aktiengesellschaft. Separating apparatus for printed products, particularly for distributing folded printed products into discrete paths. 4,666,146, 5-19-87, Cl. 271-303.000.

Richter, Judy C. Light reflective contact lens. 4,669,834, 6-2-87, Cl. 351-162.000.

Richter, Karl-Heinz: *See*—
Hoernig, Rudolf; Herges, Peter; Knoff, Bernd; Richter, Karl-Heinz; Bucchle, Karl-Heinz; and Wallentowitz, Henning, 4,681,185, Cl. 180-247.000.

Richter, Karl M.; and Harder, Hans E., to Howmedica International, Inc. Charger for a battery-operated surgical machine. 4,698,579, 10-6-87, Cl. 320-14.000.

Richter, Karl M.: *See*—
Beck, Heinrich; and Richter, Karl M., 4,664,668, Cl. 623-23.000.

Richter, Kenneth A.; Sohigian, M. D.; and Faick, John C., to Hewlett-Packard Company. Apparatus and method for utilizing an AC detection scalar network analyzer with a CW signal source. 4,647,845, 3-3-87, Cl. 324-57.00R.

Richter, Klaus: *See*—
Ehrhardt, Wirfried; Richter, Klaus; and Lehr, Adolf, 4,695,047, Cl. 269-309.000.

Richter, Lee: *See*—
Brink, Stuart J.; and Richter, Lee, 4,647,246, Cl. 404-6.000.

Richter, Ludwig; Siefert, Werner; and Kleis, Hans-Jorg, to Gerhard Berger GmbH & Co. KG. Closed loop control circuitry for step motors. 4,658,194, 4-14-87, Cl. 318-696.000.

Richter, Mark A., to United States of America, Army. Method of making a thermally stable composite honeycomb panel. 4,692,367, 9-8-87, Cl. 428-116.000.

Richter, Martin; and Piesch, Reinhold, to Siemens Aktiengesellschaft. Methods for detecting a magnetic preorientation in mechanical parts and for magnetizing the parts utilizing such detection method, and an associated device for magnetizing the parts in accordance with these methods. 4,648,004, 3-3-87, Cl. 361-143.000.

Richter, Ole J.: *See*—
Richter, Johan C. F. C.; and Richter, Ole J., 4,637,878, Cl. 210-388.000.

Richter, Reinhard: *See*—
Tanner, Herbert; Bertram, Heidrun-Leonore; Richter, Reinhard; and Spindler, Manfred, 4,705,689, Cl. 426-2.000.

Richter, Roland; Muller, Hanns P.; and Wegner, Christian, to Bayer Aktiengesellschaft. Material for support dressings. 4,638,795, 1-27-87, Cl. 128-90.000.

Richter, Roland: *See*—
Probst, Joachim; Sonntag, Michael; Richter, Roland; and Muller, Hanns P., 4,645,817, Cl. 528-45.000.

Richter, Rudolf: *See*—
Norskau, Jurgen; and Richter, Rudolf, 4,639,195, Cl. 417-216.000.

Richter, Stephan: *See*—
Chilinski, Herbert; Getzlaff, Klaus J.; Hajdu, Johann; and Richter, Stephan, 4,656,578, Cl. 364-200.000.

Richter-System GmbH & Co. KG: *See*—
Brandt, Horst, 4,655,661, Cl. 411-387.000.

Richter, Thomas A.: *See*—
Congdon , John C.; Richter, Thomas A.; and Slachta, Joseph J., 4,689,773, Cl. 367-3.000.

Richter, Werner: *See*—
Pohl, Siegfried; Luhrsen, Ernst; Jeschke, Peter; Rave, Ortwin; Kienow, Martin; and Richter, Werner, 4,634,685, Cl. 501-100.000.

Richter, Wilfried: *See*—
Klein, Karl-Heinz; and Richter, Wilfried, 4,680,774, Cl. 375-26.000.

Richter, Wolfgang; and Durl, Bernd, to Hoechst Aktiengesellschaft. Pad dyeing process for wool. 4,640,691, 2-3-87, Cl. 8-543.000.

Richter, Wolfgang; Buysch, Hans-Josef; Brassat, Bert; Merten, Josef; and Haupt, Heinrich, to Bayer Aktiengesellschaft. Polyamides having high notched impact strength and high fluidity in the molten state. 4,656,228, 4-7-87, Cl. 525-433.000.

Richter, Wolfgang: *See*—
Kaempf, Karl; Zachner, Paul; and Richter, Wolfgang, 4,715,237, Cl. 73-864.620.
Podszun, Wolfgang; Goossens, John; Suling, Carlhans; Hoffarth, Gunther; Richter, Wolfgang; Uytterhoeven, Herman; and de Winter, Walter, 4,639,403, Cl. 430-115.000.
Reuvers, Johannes G.; Richter, Wolfgang; and Kummer, Rudolf, 4,645,855, Cl. 560-204.000.

Richwood Industries, Inc.: *See*—
Stoll, Donald L., 4,696,388, Cl. 198-493.000.

Rickard, Dale A.; and Rudelis, Glen H., to International Business Machines Corporation. Dynamically selectable polarity latch. 4,638,183, 1-20-87, Cl. 307-291.000.

Rickard, Thomas A. Folding knife. 4,670,984, 6-9-87, Cl. 30-161.000.

Rickards, Anthony F.: *See*—
Wittkampf, Frederik H. M.; and Rickards, Anthony F., 4,644,954, Cl. 128-419.0PG.

Rickards, Rodney W.; Gill, Melvyn; and Christie, Robert M., to Australian National University, The. Process for the preparation of prostanoids. 4,703,127, 10-27-87, Cl. 549-214.000.

Rickborn, Steven F.; and Rogers, Donald Z., to Northrop Corporation. Process for coating small refractory particles. 4,686,116, 8-11-87, Cl. 427-215.000.

Rickenbach, Jakob: *See*—
Sidler, Gregor; and Rickenbach, Jakob, 4,643,112, Cl. 112-185.000.

Ricker, Dennis J.: *See*—
Elliott, James O.; and Ricker, Dennis J., 4,642,538, Cl. 318-139.000.

Ricker, Ernst: *See*—
Kohl, Albert; Melzer, Milena; Lehner, August; Schneider, Norbert; Koester, Eberhard; Balz, Werner; Sommermann, Friedrich; and Ricker, Ernst, 4,668,586, Cl. 428-411.100.

Rickert, Glenn E. Depth perception by image isolation. 4,651,219, 3-17-87, Cl. 358-254.000.

Rickert Precision Industries, Inc.: *See*—
Claycomb, Jack R., 4,685,518, Cl. 166-243.000.

Rickert, Robert G.: *See*—
Amelio, William J.; Hume, David W.; McBride, Donald G.; and Rickert, Robert G., 4,639,380, Cl. 427-97.000.
Capwell, Robert J.; Kaschak, Ronald A.; McBride, Donald G.; Rickert, Robert G.; and Seraphim, Donald P., 4,707,377, Cl. 427-8.000.
McBride, Donald G.; and Rickert, Robert G., 4,692,346, Cl. 427-8.000.

McBride, Donald G.; and Rickert, Robert G., 4,707,378, Cl. 427-8.000.
Rickert, Robert G., Jr.: *See*—
McBride, Donald G.; and Rickert, Robert G., Jr., 4,652,345, Cl. 204-14.100.
Rickey, Wynn P., to Exxon Production Research Co. Method and apparatus for through-the-flowline gravel packing, 4,646,839, 3-3-87, Cl. 166-335.000.
Rickle, Gregory K., to Dow Chemical Company, The. Nonreactive class of surfactants for foaming agents in plastics, 4,673,755, 6-16-87, Cl. 556-489.000.
Rickloff, James R.: *See*—
Makinen, Ralph W.; and Rickloff, James R., 4,648,978, Cl. 210-759.000.
Rickmers, Clifford P.; Donovan, Robert D.; and Brickner, Louis C., Jr., to Delta International Machinery Corp. Portable saw mill, 4,711,032, 12-8-87, Cl. 30-372.000.
Ricks, John R.: *See*—
Gillespie, Robert M.; and Ricks, John R., 4,666,045, Cl. 209-585.000.
Rickus, Edmund, to Nestle & Fischer. Laser-optical surveying system, 4,673,287, 6-16-87, Cl. 356-4.000.
Rickwood, Gerald C. Screw-action connectors security means, 4,657,457, 4-14-87, Cl. 411-93.000.
Ricodeau, Jean, to Thomson-CSF. X-ray image intensifier and application to a digital radiology system, 4,645,971, 2-24-87, Cl. 313-527.000.
Ricoh Company, Ltd.: *See*—
Abe, Michiharu; and Oba, Hideaki, 4,652,514, Cl. 430-343.000.
Abe, Michiharu; Umehara, Masaakira; Sato, Tsutomu; Oba, Hideaki; Ueda, Yutaka; and Kunikane, Makoto, 4,696,892, Cl. 430-495.000.
Abe, Shuro; Yabuki, Yoshiro; Takamatsu, Yasuhiko; Yamaguchi, Takayuki; Ohta, Masatoshi; and Nakamura, Eiji, 4,651,164, Cl. 346-76.0PH.
Adachi, Eiichi, 4,682,215, Cl. 358-75.000.
Adachi, Eiichi, 4,682,241, Cl. 358-261.000.
Adachi, Tsukasa; Shinguryo, Satoshi; Furuta, Hideya; Sakai, Yoshihiro; Ikeda, Itsuo; and Sakai, Katsuo, 4,655,579, Cl. 355-4.000.
Ameyama, Minoru; Isayama, Takuro; Yamazaki, Hiroshi; Matsumoto, Shuzo; Katano, Yasuo; and Iwasaki, Kyuhachiro, 4,673,955, Cl. 346-140.00R.
Anderson, Carl P., 4,639,128, Cl. 355-75.000.
Anderson, Carl P.; and Mayer, Edward F., 4,703,923, Cl. 271-3.100.
Aoki, Minoru, 4,707,114, Cl. 355-14.00D.
Ariyama, Kenzo; Kurotori, Tsuneo; and Mochizuki, Manabu, 4,640,605, Cl. 355-4.000.
Bando, Toshiro; and Kozaiku, Kiyoto, 4,661,765, Cl. 323-241.000.
Bisaiji, Takashi, 4,678,318, Cl. 355-15.000.
Culpepper, Mark A., 4,703,330, Cl. 346-75.000.
Emoto, Masami; Nishimiya, Masanobu; and Kiguchi, Hiroyuki, 4,636,625, Cl. 250-201.000.
Emoto, Masami; Gotoh, Hiroshi; and Inuzuka, Hideo, 4,683,559, Cl. 369-44.000.
Emoto, Masami; and Inuzuka, Hideo, 4,684,799, Cl. 250-201.000.
Emoto, Masami; and Inuzuka, Hideo, 4,687,916, Cl. 250-201.000.
Fujioka, Yoshisato, 4,634,235, Cl. 350-422.000.
Funato, Hiroyoshi, 4,637,679, Cl. 350-6.500.
Funato, Hiroyoshi, 4,678,263, Cl. 350-3.710.
Funato, Hiroyoshi; and Banba, Nobuo, 4,712,852, Cl. 350-371.000.
Furuta, Hideya; Koizumi, Yutaka; Mamizuka, Mitsuru; and Sakai, Yoshihiro, 4,690,542, Cl. 355-4.000.
Gojo, Tomomi; Yagi, Yoshio; and Izumi, Tsunetada, 4,695,834, Cl. 340-734.000.
Gotoh, Hiroshi, 4,635,244, Cl. 369-112.000.
Hagiri, Minoru, 4,705,774, Cl. 503-207.000.
Hashimoto, Mitsuru, 4,656,257, Cl. 534-654.000.
Hashimoto, Mitsuru, 4,666,805, Cl. 430-57.000.
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Higaya, Toshiaki; Ogura, Masaaki; Yano, Takato; Hashizume, Kiyozo; Ogawa, Toshiyuki; and Seko, Nachio, 4,640,608, Cl. 355-15.000.
Hirakura, Koji; and Ikesue, Masumi, 4,700,659, Cl. 118-652.000.
Hirano, Yasuo; and Nojima, Kazuo, 4,702,964, Cl. 428-447.000.
Hirota, Tetsuro, 4,644,372, Cl. 346-138.000.
Hirota, Tetsuro; Araki, Shigeyuki; Yokoyama, Shizuo; Masui, Haruyoshi; and Hirata, Toshitaka, 4,661,022, Cl. 346-75.000.
Hirozane, Takashi, 4,668,074, Cl. 355-14.00D.
Hoshina, Takayuki; Takahashi, Michihisa; Rimoto, Masanori; and Nagamoto, Masanaka, 4,659,644, Cl. 430-182.000.
Ide, Yukio; Ohnuma, Teruyuki; and Kageyama, Yoshiyuki, 4,707,570, Cl. 178-18.000.
Iiyama, Kiyotaka; and Inaba, Norihiko, 4,638,340, Cl. 346-204.000.
Iiyama, Kiyotaka; and Inaba, Norihiko, 4,663,641, Cl. 346-204.000.
Iiyama, Kiyotaka; and Inaba, Norihiko, 4,665,410, Cl. 346-204.000.
Ikesue, Masumi; and Ikeda, Takashi, 4,641,945, Cl. 355-3.0DD.
Ikesue, Masumi; and Takahashi, Yasuhiro, 4,657,239, Cl. 271-227.000.
Imamura, Masanaga; and Mizuno, Isao, 4,680,592, Cl. 346-1.100.
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Inokuchi, Toshiyuki, 4,660,967, Cl. 355-67.000.
Inokuchi, Toshiyuki, 4,678,321, Cl. 355-52.000.
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Inoue, Takashi, 4,639,741, Cl. 346-76.0PH.
Ishida, Tsutomu, 4,661,428, Cl. 430-58.000.
Ishikawa, Chuji, 4,672,390, Cl. 346-75.000.
Ishikawa, Kazumasa; and Koseki, Yuji, 4,695,898, Cl. 358-296.000.
Isoda, Tetsuo; Watanabe, Youichirou; Aoki, Mitsuo; and Nakayama, Nobuhiro, 4,672,016, Cl. 430-108.000.
Itagaki, Masanori; Takahashi, Junichi; and Endou, Hideyasu, 4,695,678, Cl. 174-52.0FP.
Ito, Masahiro; and Murayama, Noboru, 4,675,831, Cl. 364-518.000.
Ito, Masahiro; Murayama, Noboru; Suziku, Koichi; Sato, Ken; and Sato, Tsutomu, 4,698,778, Cl. 364-518.000.
Ito, Masaji; Midorikawa, Akira; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,682,158, Cl. 340-679.000.
Ito, Tadashi; Jinnai, Koichiro; Koike, Takahisa; Murai, Toshiharu; Fukazawa, Takao; and Ishima, Kazumi, 4,642,653, Cl. 346-1.100.
Izumi, Kouji; Horike, Masanori; Furukawa, Tatsuya; Konna, Hiromichi; Naruse, Osamu; and Ebi, Yutaka, 4,677,845, Cl. 73-56.000.
Kameda, Naomi; and Uematsu, Kenji, 4,663,642, Cl. 346-217.000.
Kammoto, Yoshiaki; Asai, Takahiro; Kouchiwa, Taira; Satoh, Masanori; and Asano, Shunji, 4,647,961, Cl. 358-75.000.
Kaneko, Yutaka, 4,661,959, Cl. 372-34.000.
Kanno, Fuchio; Kobayashi, Kazuo; Sakamoto, Koji; Kaneko, Toshio; and Yasuda, Wataru, 4,656,964, Cl. 118-648.000.
Kanno, Tetuo, 4,651,245, Cl. 360-105.000.
Kanoh, Toshio; and Kouchiwa, Taira, 4,643,576, Cl. 356-353.000.
Kato, Tomokazu, 4,651,293, Cl. 364-602.000.
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Kawakami, Masanori; Nishiwaki, Shoji; and Maehara, Hidejirou, 4,669,899, Cl. 400-240.300.
Kawakami, Toshio; Mori, Masaaki; and Okada, Chiharu, 4,688,051, Cl. 346-76.0PH.
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Kawamura, Atsushi, 4,673,259, Cl. 350-465.000.
Kiguchi, Masao, 4,639,553, Cl. 379-377.000.
Kitabayashi, Junichi, 4,653,923, Cl. 356-360.000.
Kitahara, Ayao; and Konno, Kijuro, 4,664,841, Cl. 252-309.000.
Kobayashi, Kiyohiko, 4,710,965, Cl. 382-41.000.
Kobayashi, Mikio, 4,680,487, Cl. 307-475.000.
Kodama, Yutaka, 4,635,920, Cl. 271-81.000.
Koike, Tadao, 4,650,313, Cl. 355-3.0SH.
Koizumi, Yutaka; Furuta, Hideya; Sakai, Yoshihiro; Mamizuka, Mitsuru; Adachi, Tsukasa; Ikeda, Itsuo; and Sakai, Katsuo, 4,664,501, Cl. 355-4.000.
Kondo, Mitsuru, 4,661,857, Cl. 358-257.000.
Kondo, Mitsuru, 4,706,126, Cl. 358-257.000.
Koshiishi, Takaho, 4,652,933, Cl. 358-256.000.
Kouchiwa, Taira; and Nishina, Kiichiro, 4,690,518, Cl. 350-464.000.
Kouchiwa, Taira, 4,711,536, Cl. 350-476.000.
Kudo, Shozo, 4,653,044, Cl. 370-29.000.
Kudo, Shozo, 4,672,459, Cl. 358-257.000.
Kurotaka, Sigeo; and Tukane, Moriyosi, 4,696,418, Cl. 222-167.000.
Kyomasu, Mikio, 4,682,052, Cl. 307-361.000.
Matsumoto, Fuyuhiko; and Tsushima, Shuuichi, 4,673,284, Cl. 355-15.000.
Mayer, Edward F., 4,650,311, Cl. 355-15.000.
Mayer, Edward F., 4,668,071, Cl. 355-3.00R.
Midorikawa, Akira; Ito, Masaji; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,677,310, Cl. 307-64.000.
Miyake, Kiyoshi; and Kaneko, Hiroko, 4,699,471, Cl. 350-357.000.
Miyazawa, Hideyuki; and Kamizyo, Eiji, 4,646,155, Cl. 358-213.000.
Miyazawa, Hideyuki, 4,661,860, Cl. 358-294.000.
Miyazawa, Hideyuki, 4,677,496, Cl. 358-285.000.
Mochimaru, Hideaki; Shimada, Kazuyuki; and Hirasawa, Junichi, 4,703,334, Cl. 346-160.000.
Mochizuki, Manabu; Ikeda, Itsuo; Kurotori, Tsuneo; Shinguryo, Satoshi; Miyakawa, Seiichi; Kobayashi, Yuichi; Nonaka, Mitsuhiro; and Fukuda, Haruhiko, 4,669,859, Cl. 355-10.000.
Mori, Masaaki; and Okada, Chiharu, 4,684,959, Cl. 346-76.0PH.
Murai, Kazuo; and Koichi, Yasushi, 4,639,117, Cl. 355-14.00R.
Murai, Kazuo, 4,667,250, Cl. 358-283.000.
Murakami, Kakuji; Akutsu, Eiichi; and Aruga, Tamotsu, 4,680,235, Cl. 428-414.400.
Murayoshi, Seiji, 4,674,737, Cl. 271-124.000.
Nagai, Kayoko; and Tsubuko, Kazuo, 4,690,881, Cl. 430-114.000.
Nagamoto, Masanaka; Kurisu, Norio; and Taniguchi, Keishi, 4,636,819, Cl. 346-216.000.
Nagayama, Haruhiko, 4,674,858, Cl. 355-3.0BE.
Nakajima, Yoshinori, 4,681,470, Cl. 400-323.000.
Nakamura, Hitoshi; Machida, Hazime; Tanaka, Motoharu; Watada, Atsuyuki; Omi, Fumiya; and Koinuma, Nobuyuki, 4,670,322, Cl. 428-172.000.
Nakamura, Hitoshi; Machida, Hazime; Tanaka, Motoharu; Watada, Atsuyuki; Omi, Fumiya; and Koinuma, Nobuyuki, 4,670,323, Cl. 428-172.000.
Nakamura, Hitoshi; Kaneko, Yujiro; Sawada, Yasuo; Machida, Hajime; Omi, Fumiya; and Watada, Atsuyuki, 4,690,861, Cl. 428-623.000.
Nakatani, Tomofumi; and Nakamura, Shogo, 4,634,966, Cl. 324-77.00B.
Nakazato, Yukitaka; Hashimoto, Kenji; and Taruki, Takashi, 4,696,463, Cl. 271-176.000.
Narita, Fujiaki; and Tanaka, Sumio, 4,636,879, Cl. 360-72.200.
Narita, Fujiaki, 4,658,316, Cl. 360-109.000.
Ogasawara, Fumihiro; and Sonehara, Noboru, 4,677,257, Cl. 178-4.000.

Ogawa, Toshiya; Ueno, Hiroaki; Yamada, Toshiaki; and Haganuma, Tomoyuki, 4,716,543, Cl. 364-900.000.
Ogura, Yukio, 4,643,516, Cl. 350-6.500.
Ohdake, Eishu; Oikawa, Tomohiro; Shimizu, Kenichi; Seto, Takashi; Ishikawa, Masahiro; Suzuki, Shigeru; and Tagoku, Izumi, 4,640,611, Cl. 355-77.000.
Ohdake, Eisyu, 4,707,126, Cl. 355-14.0SH.
Ohshima, Kiyoshi; Suzuki, Shigeru; Mashiko, Harumitsu; and Ohtake, Eisyu, 4,707,126, Cl. 355-14.0SH.
Ohshima, Kohichi; Kageyama, Yoshiyuki; Ide, Yukio; Fujimura, Itaru; and Kunita, Masako, 4,687,723, Cl. 430-65.000.
Ohta, Masafumi, 4,663,442, Cl. 534-759.000.
Ohta, Wasaburo; Enomoto, Takamichi; and Uehara, Kiyohiro, 4,678,285, Cl. 350-345.000.
Oka, Seiji; and Morita, Yoshiharu, 4,650,070, Cl. 206-216.000.
Okada, Hiromi; Nakanishi, Yoshiro; and Nomura, Yoshifumi, 4,646,293, Cl. 370-85.000.
Okawara, Makoto; and Tsubuko, Kazuo, 4,634,651, Cl. 430-114.000.
Otomura, Satoshi; and Kojima, Narihito, 4,702,979, Cl. 430-52.000.
Ozawa, Toshiro, 4,699,474, Cl. 350-427.000.
Padalino, Marco; Bolema, Stephen J.; and Culpepper, Mark A., 4,668,964, Cl. 346-75.000.
Padalino, Marco, 4,695,848, Cl. 346-1.100.
Sakai, Yoshiliro; Koizumi, Yutaka; Mamizuka, Mitsuru; and Furuta, Hideya, 4,662,739, Cl. 355-14.00R.
Sakai, Yoshihiro; Ikeda, Ituso; Sakai, Katsuo; Adachi, Tsukasa; Shinguryo, Satoshi; and Furuta, Hideya, 4,690,541, Cl. 355-4.000.
Sakamoto, Koji; Kaneko, Toshio; Kanno, Fuchio; and Yasuda, Wataru, 4,674,439, Cl. 118-657.000.
Sakano, Yukio, 4,707,745, Cl. 358-283.000.
Sakuma, Nobuo, 4,695,132, Cl. 350-409.000.
Sakuma, Nobuo; and Takanashi, Keinichi, 4,712,884, Cl. 350-434.000.
Sakurai, Yasuo, 4,638,987, Cl. 271-111.000.
Sakurai, Yasuo, 4,715,597, Cl. 271-122.000.
Sasaki, Eiichi, 4,660,051, Cl. 346-76.0PH.
Sasaki, Eiichi; and Inoue, Takashi, 4,675,697, Cl. 346-76.0PH.
Sasaki, Masaomi, 4,709,096, Cl. 564-374.000.
Sasaki, Tomio; and Noguchi, Yukio, 4,641,272, Cl. 364-559.000.
Sato, Kei, 4,700,201, Cl. 346-108.000.
Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, 4,656,121, Cl. 430-495.000.
Sato, Tsutomu; Murayama, Noboru; and Sato, Key, 4,694,353, Cl. 358-283.000.
Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, 4,714,667, Cl. 430-270.000.
Satomi, Toyokazu, 4,714,354, Cl. 384-38.000.
Segawa, Hideo, 4,648,686, Cl. 350-96.130.
Serikawa, Yoshio, 4,701,041, Cl. 354-413.000.
Seto, Toshio, 4,663,671, Cl. 358-260.000.
Shibusawa, Mitsuo, 4,696,563, Cl. 355-8.000.
Shimada, Kazuyuki; and Shibata, Isamu, 4,663,760, Cl. 372-31.000.
Shimada, Kazuyuki, 4,677,292, Cl. 250-235.000.
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,647,310, Cl. 106-22.000.
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,711,668, Cl. 106-22.000.
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Aruga, Tamotsu; and Uemura, Hiroyuki, 4,713,113, Cl. 106-22.000.
Shinohara, Hiroichi, 4,671,627, Cl. 350-471.000.
Sue, Takaji, 4,646,162, Cl. 358-293.000.
Sue, Takaji, 4,699,034, Cl. 83-649.000.
Suzaki, Masayuki; Nishiwaki, Shoji; Hayashima, Toshitaka; Uezu, Kazuo; Maehara, Hidejirou; and Momose, Masanori, 4,683,478, Cl. 346-76.0PH.
Suzuki, Koichi; Murayama, Noboru; Ito, Masahiro; and Sato, Kei, 4,698,691, Cl. 358-283.000.
Suzuki, Tetsuro, 4,634,650, Cl. 430-110.000.
Taji, Satoru; Yoshida, Norio; and Hikawa, Tetsuo, 4,634,494, Cl. 156-628.000.
Tajima, Shoji; Kadomatsu, Yasuo; Miyazaki, Yoshio; Sakurai, Michikazu; and Anze, Kimio, 4,707,382, Cl. 427-58.000.
Takada, Hiromi, 4,714,364, Cl. 400-639.100.
Takahashi, Akira, 4,643,552, Cl. 354-217.000.
Takahashi, Sadao, 4,634,264, Cl. 355-16.000.
Takahashi, Yoshifusa; Kadonaga, Hiroshi; Ishikawa, Satoshi; and Kikuchi, Junichi, 4,644,587, Cl. 455-601.000.
Takanashi, Kenichi; and Sakuma, Nobuo, 4,707,085, Cl. 350-480.000.
Takata, Akira, 4,651,304, Cl. 365-201.000.
Takata, Akira; and Matsuoka, Shigeki, 4,700,125, Cl. 323-317.000.
Takeda, Fuchio; Matsushiro, Hiroyuki; Kobayashi, Kazuo; and Kaneko, Toshio, 4,710,015, Cl. 355-3.0DD.
Takemoto, Takeshi, 4,708,501, Cl. 400-157.200.
Tanaka, Hidetake; Niki, Akio; and Kuramochi, Osamu, 4,674,895, Cl. 400-121.000.
Tanaka, Shigetaka, 4,679,208, Cl. 375-13.000.
Tasaka, Motoo; and Hasebe, Kazuhiro, 4,652,486, Cl. 428-321.300.
Tomizuka, Mitsuo, 4,696,557, Cl. 353-66.000.
Tosaka, Hachiro; Yamaguchi, Kimitoshi; and Orihara, Motoi, 4,670,368, Cl. 430-106.600.
Tsujihara, Sotohiro, 4,692,020, Cl. 355-14.0SH.
Tsuruoka, Ichiro; and Takahashi, Mitsuru, 4,714,427, Cl. 432-59.000.
Tsutsui, Kyoji, 4,716,220, Cl. 534-738.000.
Uchida, Satoru, 4,694,332, Cl. 358-75.000.
Ueda, Yutaka; and Yamamuro, Tetsu, 4,711,798, Cl. 428-65.000.
Uehara, Kiyohiro; and Sakai, Shigeyuli, 4,654,965, Cl. 29-830.000.
Umeda, Shin, 4,693,590, Cl. 355-14.0SH.
Umehara, Masaakira, 4,707,431, Cl. 430-271.000.
Umezawa, Michio, 4,660,825, Cl. 271-276.000.
Wada, Yoshinori, 4,642,697, Cl. 358-257.000.
Yamada, Hiroshi, 4,666,284, Cl. 355-5.000.
Yamada, Kunihiro, 4,707,828, Cl. 370-85.000.
Yamaguchi, Shingo, 4,644,319, Cl. 340-731.000.
Yamaguchi, Shingo, 4,651,221, Cl. 358-260.000.
Yamaguchi, Shingo, 4,679,229, Cl. 379-373.000.
Yamamuro, Tetsu; and Iwasaki, Kyuhachiro, 4,700,203, Cl. 346-140.00R.
Yano, Hidetoshi; Seimiya, Ryubun; Tarumi, Noriyoshi; Demizu, Hiromi; and Obu, Makoto, 4,696,255, Cl. 118-653.000.
Yano, Satoshi, 4,704,636, Cl. 358-280.000.
Yasuda, Hiroshi, 4,668,072, Cl. 355-3.00R.
Yokota, Takashi, 4,657,136, Cl. 206-328.000.
Yoshida, Taizo; Mori, Masaaki; Koyama, Jiro; and Haruna, Masamitsu, 4,648,687, Cl. 350-96.130.
Yoshikawa, Masao; Kojima, Akio; Suzuki, Tetsuro; and Sasaki, Masaomi, 4,672,149, Cl. 136-263.000.
Yoshimura, Tsuyoshi, 4,685,795, Cl. 355-8.000.
Yuasa, Kazuhiro, 4,636,815, Cl. 346-153.100.
Yuasa, Kazuhiro, 4,637,708, Cl. 355-3.0DD.
Yuasa, Kazuhiro, 4,641,955, Cl. 355-14.0TR.
Yuyama, Yukihiro; Motosugi, Takanori; Honda, Yasuhiro; and Ichikawa, Akira, 4,711,874, Cl. 503-206.000.
Ricoh Corporation: *See*—
Suzuki, Shigeru, 4,706,099, Cl. 346-160.000.
Ricoh Electronics, Inc.: *See*—
Shibata, Tomoo, 4,707,211, Cl. 156-354.000.
Ricoh Systems, Inc.: *See*—
Anderson, Carl P., 4,639,128, Cl. 355-75.000.
Anderson, Carl P.; and Mayer, Edward F., 4,703,923, Cl. 271-3.100.
Culpepper, Mark A., 4,703,330, Cl. 346-75.000.
Koelling, Alan L.; Murphy, William J.; and Mayer, Edward F., 4,710,442, Cl. 430-85.000.
Mayer, Edward F., 4,668,071, Cl. 355-3.00R.
Padalino, Marco; Bolema, Stephen J.; and Culpepper, Mark A., 4,668,964, Cl. 346-75.000.
Padalino, Marco, 4,695,848, Cl. 346-1.100.
Ricouard, Jacques; and Chappoux, Claude, to Ronis S.A. Coin lock device for shopping trolleys. 4,637,507, 1-20-87, Cl. 194-212.000.
Ricoux, Philippe: *See*—
Armand, Michel; Chabagno, Jean-Michel; Ricoux, Philippe; Vassort, Guy; Gauthier, Michel; Brochu, Fernand; and Rigaud, Philippe, 4,683,181, Cl. 429-192.000.
Riddell, Horace G.: *See*—
Waite, David P.; and Riddell, Horace G., 4,688,170, Cl. 364-200.000.
Riddell, Inc.: *See*—
Infusino, Ralph J.; and Schulz, Arthur M., 4,646,368, Cl. 2-421.000.
Riddell, John M. Wire movement sensor and control for wire stitching machine. 4,703,881, 11-3-87, Cl. 227-1.000.
Ridder, Sven-Olof: *See*—
Unden, Harald; and Ridder, Sven-Olof, 4,673,606, Cl. 428-138.000.
Ridderstolpe, Carl J. Wheel assembly for traversing obstacles. 4,687,213, 8-18-87, Cl. 280-5.260.
Riddle, Barry L.: *See*—
Kipp, Egbert M.; Kirk, Thomas E.; and Riddle, Barry L., 4,636,321, Cl. 252-49.300.
Kipp, Egbert M.; and Riddle, Barry L., 4,654,155, Cl. 252-32.500.
Riddle, Charles F., to Rexworks Inc. Two bolt taper cleat. 4,668,122, 5-26-87, Cl. 404-121.000.
Riddle, Harry W.: *See*—
Vlasek, David J.; and Riddle, Harry W., 4,641,776, Cl. 228-155.000.
Riddle, Robert R.: *See*—
Gruber, James R.; Gudath, Ernest A.; Michalski, Dennis H.; Riddle, Robert R.; and Stana, Regis R., 4,716,026, Cl. 423-167.000.
Riddling, Charles C. Fire hose back pack. 4,685,601, 8-11-87, Cl. 224-261.000.
Rideout, Darryl; Kappas, Attallah; and Drummond, George S., to Rockefeller University, The. Tin diiododeuteroporphyrin and therapeutic use thereof. 4,668,670, 5-26-87, Cl. 514-185.000.
Rideout, Darryl; Kappas, Attallah; and Drummond, George S., to Rockefeller University, The. Therapeutic use of tin diiododeuteroporphyrin. 4,692,439, 9-8-87, Cl. 514-185.000.
Rideout, Darryl; Kappas, Attallah; and Drummond, George S., to Rockefeller University, The. Therapeutic use of tin diiododeuteroporphyrin. 4,699,903, 10-13-87, Cl. 514-185.000.
Rideout, Gerald E., to Risdon Corporation. Mounting cap with extended sleeve. 4,676,407, 6-30-87, Cl. 222-182.000.
Rider, Frederick H., Jr., to General Motors Corporation. Electrical connector with position assurance and double lock. 4,714,433, 12-22-87, Cl. 439-310.000.
Rider, Jack A.: *See*—
Krause, Larry J.; and Rider, Jack A., 4,710,403, Cl. 427-304.000.
Rider, Paul J.: *See*—
Lounsbury, Charles W., Jr.; Graudons, Gary D.; and Rider, Paul J., 4,646,677, Cl. 118-653.000.

Rider, Preston L.: *See*—
Trepus, George E., Jr.; Matin, Barry D.; and Rider, Preston L., 4,707,206, Cl. 156-187.000.

Ridett, Alan H. Buildings. 4,663,897, 5-12-87, Cl. 52-73.000.

Ridge, Inc.: *See*—
Peugeot, Richard S., 4,688,241, Cl. 378-137.000.

Ridge, Jimmy D. Laminate assembly and method. 4,671,035, 6-9-87, Cl. 52-393.000.

Ridgely, Myron H.: *See*—
Foss, Janet M. P.; Foss, John; Brooks, Christopher G.; and Ridgely, Myron H., 4,637,626, Cl. 280-655.000.

Ridgetown Ltd.: *See*—
Break, Douglas, 4,684,300, Cl. 409-134.000.

Ridgley, Brad: *See*—
Tarlow, Kenneth A.; and Ridgley, Brad, 4,683,812, Cl. 99-289.00R.

Ridgway, Charles I.; and Coultish, John R., to Joseph Rhodes Limited. Bending Machines. 4,658,624, 4-21-87, Cl. 72-316.000.

Ridgway, Glen E.: *See*—
Bowdy, Fredrick E., Glasenapp, Rudi K. H.; and Ridgway, Glen E., 4,681,285, Cl. 244-103.00R.

Ridgway, Steve H. Trailer for storing and drying harvested crops. 4,704,807, 11-10-87, Cl. 34-201.000.

Ridgwell, Robert H., to Boeing Company, The. Temperature control device for jet engine nacelle associated structure. 4,712,750, 12-15-87, Cl. 244-117.00A.

Ridihalgh, John L.: *See*—
Lusk, Elmer C.; and Ridihalgh, John L., 4,666,659, Cl. 376-272.000.

Riding, Kenneth; and Adamson, John, to Lucas Industries public limited company. Brake pad retaining plate assemblies for use in brake shoe assemblies. 4,682,905, 7-28-87, Cl. 403-327.000.

Ridings, Henry T.: *See*—
Banerjee, Chandra K.; Farrier, Ernest G.; Reynolds, John H., IV; Ridings, Henry T.; Sensabaugh, Andrew J., Jr.; Shannon, Michael D.; and Shelar, Gary R., 4,714,082, Cl. 131-359.000.
Sensabaugh, Andrew J., Jr.; and Ridings, Henry T., 4,655,229, Cl. 131-273.000.

Ridler, Keith D.; Taylor, Peter J.; Poley, John; Norvall, Christopher W.; and Upton, John, to British-American Tobacco Company Limited. Monitoring rod. 4,685,475, 8-11-87, Cl. 131-84.100.

Ridley, Dennis James, executor: *See*—
Baines, Alfred H. P., deceased; Campetti, Gianfranco; Baumgartl, Walter A.; and Nusse, Klaus J. R., 4,644,312, Cl. 335-236.000.

Ridley, Gordon, to Procter & Gamble Company, The. Transparent or translucent toilet bars containing a smectite-type clay. 4,678,593, 7-7-87, Cl. 252-131.000.

Ridley, William E.; and Spector, George. Magnetic battery. 4,709,176, 11-24-87, Cl. 310-15.000.

Ridoux, Frank E.: *See*—
Neuhalfen, Michael A.; Ridoux, Frank E.; and Edenborough, John S., 4,711,226, Cl. 123-609.000.

Riebeek, G. Fred, to American Microsystems, Inc. Metal oxide semiconductor logarithmic voltage controlled oscillator. 4,635,002, 1-6-87, Cl. 331-108.00R.

Riebel, Hans-Jochem; Homeyer, Bernhard; Becker, Benedikt; and Behrenz, Wolfgang, to Bayer Aktiengesellschaft. Certain (O-pyrid-2-yl)-5-trifluormethyl phosphoric, thiophosphoric, dithiophosphoric, phosphoramidic, thiophosphoramidic esters having insecticidal or nematocidal properties. 4,665,061, 5-12-87, Cl. 514-89.000.

Riebel, Hans-Jochem: *See*—
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,645,528, Cl. 71-90.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,647,665, Cl. 544-182.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; and Roy, Wolfgang, 4,658,027, Cl. 544-321.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,666,505, Cl. 71-92.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,680,052, Cl. 71-91.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,704,158, Cl. 71-92.000.
Fauss, Rudolf; and Riebel, Hans-Jochem, 4,659,820, Cl. 544-194.000.
Fauss, Rudolf; and Riebel, Hans-Jochem, 4,659,821, Cl. 544-194.000.
Forster, Heinz; Klauke, Erich; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, Ludwig; and Schmidt, Robert R., 4,657,577, Cl. 71-86.000.
Moriya, Kotchi; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, Ludwig; and Schmidt, Robert R., 4,639,537, Cl. 558-48.000.
Priesnitz, Uwe; and Riebel, Hans-Jochem, 4,659,822, Cl. 544-194.000.

Riebel, Hans-Jochim: *See*—
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochim; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,659,364, Cl. 71-92.000.

Riebel, Ulrich, to Loffler, Friedrich. Method of and an apparatus for ultrasonic measuring of the solids concentration and particle size distribution in a suspension. 4,706,509, 11-17-87, Cl. 73-865.500.

Rieben, Stuart L., to Westinghouse Electric Corp. Particulate collection system for laser welding apparatus. 4,659,901, 4-21-87, Cl. 219-121.0LC.

Rieben, Stuart L.; and Wylie, Mark E., to Westinghouse Electric Corp. Apparatus and method for applying an end plug to a fuel rod tube end. 4,660,270, 4-28-87, Cl. 29-525.000.

Rieben, Stuart L.; and Wylie, Mark E., to Westinghouse Electric Corp. Apparatus for applying an end plug to an end of a fuel rod tube. 4,662,051, 5-5-87, Cl. 29-282.000.

Rieben, Stuart L.; and Wylie, Mark E., to Westinghouse Electric Corp. Apparatus for applying an end plug to an end of a fuel rod tube. 4,672,791, 6-16-87, Cl. 53-327.000.

Rieben, Stuart L.; and Wylie, Mark E., to Westinghouse Electric Corp. Apparatus for applying an end plug to an end of a fuel rod tube. 4,679,377, 7-14-87, Cl. 53-327.000.

Rieber, Norbert; Boehm, Heinrich; Pommer, Ernst-Heinrich; and Dressel, Juergen, to BASF Aktiengesellschaft. Nitrification-inhibiting 1-hydroxypyrazole derivatives. 4,673,429, 6-16-87, Cl. 71-27.000.

Riebli, Peter: *See*—
Hubele, Adolf; Zondler, Helmut; Riebli, Peter; and Eckhardt, Wolfgang, 4,659,363, Cl. 71-92.000.
Hubele, Adolf; Zondler, Helmut; Riebli, Peter; and Eckhardt, Wolfgang, 4,694,009, Cl. 514-269.000.

Rieck, Gene W.: *See*—
Beining, August H.; Dial, Larry A.; Smith, William A.; and Rieck, Gene W., 4,695,827, Cl. 340-365.00P.

Rieck, Hans-Peter, to Hoechst Aktiengesellschaft. Use of crystalline layered sodium silicates for softening water and a process for softening water. 4,664,839, 5-12-87, Cl. 252-175.000.

Rieck, Hans-Peter; Schott, Martin; and Russow, Jurgen, to Hoechst Aktiengesellschaft. Moldings made of silicate material and processes for their preparation. 4,703,029, 10-27-87, Cl. 502-243.000.

Rieckman, Roger A.; Hemrich, William R.; Jursich, Donald N.; and Crowley, George C., to John Zink Company. Hand held electric hair dryer. 4,683,369, 7-28-87, Cl. 219-364.000.

Riede, Peter M.: *See*—
Heine, Otto R.; and Riede, Peter M., 4,641,864, Cl. 285-179.000.

Riedel, Claus: *See*—
Masuch, Gerhard; and Riedel, Claus, 4,641,771, Cl. 226-115.000.

Riedel, Friedrich: *See*—
Hildebrand, Reinhard; and Riedel, Friedrich, 4,656,877, Cl. 74-68.000.
Reichert, Gerhard; and Riedel, Friedrich, 4,639,193, Cl. 416-184.000.

Riedel, Hans-Peter; Zurcher, Josef; and Haussler, Hubert, to Beringer-Hydraulik GmbH. Pilot operated relief valve. 4,679,586, 7-14-87, Cl. 137-491.000.

Riedel, Karl. *See*—
Dupper, Walter; Emberger, Roland; Hack, Kurt; Lattner, Manfred; Nickolay, Helmut; Riedel, Karl; and Schollhammer, Richard, 4,635,321, Cl. 19-0.250.

Riedel, Peter: *See*—
Schmitt, Klaus; Schoen, Klaus-Peter; Riedel, Peter; Lingnau, Juergen; and Pliefke, Engelbert, 4,684,594, Cl. 430-49.000.

Rieder, Barbara, heir: *See*—
Rieder, Werner, deceased; Rieder, Margret, heir; Uttenweiler, Gabriele, heir; and Rieder, Barbara, heir, 4,698,941, Cl. 52-81.000.

Rieder, Heinz; Schwaiger, Max; and Swatek, Harald, to RSF Elektronik OHG Rieder & Schwaiger Gesellschaft m.b.H. Optoelectronic method of measuring the extent of a movement and optoelectronic measuring instrument for carrying out the method. 4,636,079, 1-13-87, Cl. 356-374.000.

Rieder, Heinz; and Schwaiger, Max, to EMR Elektronische Messund Regelgerate Gesellschaft m.b.H. Optoelectronic incremental measuring system with adjustable LED positioning. 4,695,720, 9-22-87, Cl. 250-231.0SE.

Rieder, Heinz; and Schwaiger, Max, to RSF-Electronik Gesellschaft m.b.H. Linear incremental measuring system for measuring speed and displacement. 4,716,292, 12-29-87, Cl. 250-237.00G.

Rieder, Margret, heir: *See*—
Rieder, Werner, deceased; Rieder, Margret, heir; Uttenweiler, Gabriele, heir; and Rieder, Barbara, heir, 4,698,941, Cl. 52-81.000.

Rieder, Matthias: *See*—
Steinbach, Hans-Horst; and Rieder, Matthias, 4,643,771, Cl. 106-111.000.

Rieder, Werner, deceased; by Rieder, Margret, heir; Uttenweiler, Gabriele, heir; and Rieder, Barbara, heir, to Swiss Aluminium Ltd. Framework for dome-shaped roofs. 4,698,941, 10-13-87, Cl. 52-81.000.

Riederer, Stephen J.; and Lee, James N., to Duke University. Automated nuclear magnetic resonance image synthesis. 4,634,979, 1-6-87, Cl. 324-307.000.

Riederer, Stephen J., to Duke University Medical Center. Determination of T1 relaxation times used in automated nuclear magnetic resonance image synthesis. 4,641,095, 2-3-87, Cl. 324-309.000.

Riederer, Stephen J.; Wright, Ronald C.; and Lee, James N., to Duke University. Automated estimation of T1 and T2 relaxation times. 4,694,252, 9-15-87, Cl. 324-309.000.

Riedhammer, Thomas M.: *See*—
Chanda, Subir; Riedhammer, Thomas M.; and Tometsko, Andrew M., 4,715,899, Cl. 134-26.000.
Chromecek, Richard C.; Ogunbiyi, Lai; Riedhammer, Thomas M.; and Smith, Francis X., 4,655,957, Cl. 252-174.230.

Riediger, Craig W.: *See*—
Menke, Jeffery W.; and Riediger, Craig W., 4,636,132, Cl. 414-691.000.

Riediker, Martin; Meier, Kurt; and Zweifel, Hans. Titanocenes and a radiation-polymerizable composition containing these titanocenes. 4,713,401, 12-15-87, Cl. 522-65.000.

Riedl, Hermann, to Siemens Aktiengesellschaft. Magnetic resonance diagnostic device. 4,701,707, 10-20-87, Cl. 324-309.000.

Riedl, James R.: *See*—
Mosser, John E.; Flaherty, Daniel R.; and Riedl, James R., 4,662,546, Cl. 222-591.000.

Riedl, Kurt: *See*—
Ascher, Gerd; and Riedl, Kurt, 4,708,825, Cl. 2600-544.00N.

Riedl, Reinhold, to Haacon Hebetechnik GmbH. Manual crank assembly for winches, especially for rack and pinion jacks of a lifting and depositing device for portable box-like articles, e.g. large containers. 4,706,936, 11-17-87, Cl. 254-89.00R.

Riedl, Walter: *See*—
Bonisch, Heinz-Jurgen; Brandl, Gerhard; Noor, Sybille; Oehling, Karl-Heinz; Riedl, Walter; Theissen, Mario; Wodiczka, Ernst; and Macht, Alwin, 4,691,670, Cl. 123-52.0MF.

Riedlinger, Herbert: *See*—
Schmid, Samuel; and Riedlinger, Herbert, 4,669,355, Cl. 89-33.100.

Riedlinger, Rainer, to Richard Wolf GmbH. Sonic transmitters. 4,639,904, 1-27-87, Cl. 367-140.000.

Riedmaier, Josef: *See*—
Lucius, Werner; Mosig, Ernst; and Riedmaier, Josef, 4,700,889, Cl. 237-12.30C.

Riedweg, Robert: *See*—
Schlensog, Klaus; Beer, Christian; and Riedweg, Robert, 4,673,388, Cl. 604-74.000.

Rief, Dieter, to FAHET NV. Automatic pool cleaner fitting. 4,683,599, 8-4-87, Cl. 4-490.000.

Riefler, Monte P.: *See*—
Wicks, Harry O.; and Riefler, Monte P., 4,669,391, Cl. 105-4.300.

Riefler, Roger G.; and Ellison, John E., to Parker Vannifin Corporation. Solenoid valve with contractible assembly ring. 4,649,360, 3-10-87, Cl. 335-255.000.

Riefling, Bernhard: *See*—
Irmscher, Klaus; Radunz, Hans-Eckart; Schulze, Ernst; and Riefling, Bernhard, 4,680,288, Cl. 514-63.000.

Riege, Guenter: *See*—
Huebner, Horst; Tauber, Guenter; Hofbeuer, Peter; Glatzer, Roland; Beintze, Guenther; Wagner, Dieter; and Riege, Guenter, 4,685,328, Cl. 73-55.000.

Riegel, Leo W.: *See*—
Gold, Raymond D.; and Riegel, Leo W., 4,641,820, Cl. 269-58.000.
Gold, Raymond D.; and Riegel, Leo W., 4,713,873, Cl. 29-559.000.

Rieger, Betty J.: *See*—
Shipman, Harvey L.; and Rieger, Dennis D., 4,703,720, Cl. 119-5.000.

Rieger, Dennis D.: *See*—
Shipman, Harvey L.; and Rieger, Dennis D., 4,703,720, Cl. 119-5.000.

Rieger, Franz. Nickel plating bath. 4,699,695, 10-13-87, Cl. 204-33.000.

Riegrt, Gerald: *See*—
Bock, Erich; and Rieger, Gerald, 4,712,482, Cl. 102-501.000.

Rieger, Herbert. Apparatus for treating liquid foodstuffs, in particular, red grape mash. 4,665,807, 5-19-87, Cl. 99-277.100.

Rieger, Johannes: *See*—
Frischmann, Albert; Rieger, Johannes; Mermi, Kurt; Kistner, Herbert; and Zimmermann, E. Harald, 4,702,654, Cl. 411-31.000.

Rieger, Wolfhart; Gauckler, Ludwig; Maurer, Albert; and Kampfer, Konrad, to Swiss Aluminium Ltd. Filter medium in the form of a stable porous body. 4,690,763, 9-1-87, Cl. 210-496.000.

Rieger, Wolfhart: *See*—
Kampfer, Konrad; Rieger, Wolfhart; Gauckler, Ludwig; and Dellapina, Marco, 4,678,758, Cl. 501-80.000.

Riegler, Ernst; Zajicek, Ernst; and Muhlbauer, Johann, to Voest-Alpine Aktiengesellschaft. Tiltable metallurgical vessel arrangement. 4,643,404, 2-17-87, Cl. 266-240.000.

Riegler, Ernst: *See*—
Ebeling, Joachim; Friedrich, Peter; Jekat, Herbert; Lugscheider, Walter; Riegler, Ernst; Zajicek, Ernst; Achleitner, Walter; and Jarema, Ferdinand, 4,644,557, Cl. 373-22.000.

Riehl, David C., to Dresser Industries, Inc. Vehicle front wheel assist drive over-speed control system. 4,635,743, 1-13-87, Cl. 180-243.000.

Riehl, Roger W., to Machine Technology, Inc. Balancing chuck. 4,711,610, 12-8-87, Cl. 409-141.000.

Riehl, Tilford F.; and Johnson, Robert R., to Brown & Williamson Tobacco Corporation. Cigarette having a mouthpiece. 4,646,762, 3-3-87, Cl. 131-336.000.

Riehl, Tilford F.: *See*—
Reynolds, Martin L.; Frank, Dorothy M.; and Riehl, Tilford F., 4,643,206, Cl. 131-336.000.

Riehm, Terri L.; and Hall, Robert T., II, to Ecolab, Inc. Aqueous acidic composition for cleaning fiberglass. 4,699,728, 10-13-87, Cl. 252-142.000.

Rieke, Erwin; and Kaschek, Renate, to Merck Patent Gesellschaft mit beschrankter Haftung. Stabilizer for biological staining solutions. 4,687,489, 8-18-87, Cl. 8-506.000.

Ricida Serrature S.R.L.: *See*—
Mattossovich, Maria, 4,712,399, Cl. 70-364.00A.

Riemann, Achim; and Ude, Werner, to Rohm GmbH. Method for making 4,4' dihydroxydiphenyl ether. 4,638,099, 1-20-87, Cl. 568-638.000.

Riemann, Achim; and Ude, Werner, to Ronm GmbH. Method for making 9,9-bis-(4-hydroxyphenyl)-fluorene. 4,675,458, 6-23-87, Cl. 568-727.000.

Riemann, Achim: *See*—
Ude, Werner; Besecke, Siegmund; Riemann, Achim; and Schroeder, Guenther, 4,698,448, Cl. 568-14.000.

Riemann, Hanns-Helmut; Skaletz, Heinz-Josef; and Sonnenschein, Hans, to CMU-Gesellschaft fuer Materialrueckgewinnung. Processing and sorting of refuse. 4,634,060, 1-6-87, Cl. 241-74.000.

Riemenschneider, Bert R.: *See*—
Tigelaar, Howard L.; and Riemenschneider, Bert R., 4,685,197, Cl. 437-195.000.

Riemenschneider, Paul K., to Highlight Industries, Inc. Stretch film wrapping device. 4,706,442, 11-17-87, Cl. 53-556.000.

Riemenschnschneider, Bert R.: *See*—
Tigelaar, Howard L.; Riemenschnschneider, Bert R.; and Paterson, James L., 4,713,677, Cl. 357.23.500.

Riemer, Heinz; and Friedrich, Werner, to Huels Aktiengesellschaft. Method of reducing viscosity in aqueous coal slurries by use of partial esters of polycarboxylic acids. 4,675,026, 6-23-87, Cl. 44-51.000.

Riemer, Heinz: *See*—
Gras, Rainer; Riemer, Heinz; and Wolf, Elmar, 4,658,005, Cl. 528-45.000.

Riemer, Jed A.: *See*—
Barnett, Ronald E.; Riemer, Jed A.; and Zanno, Paul R., 4,664,929, Cl. 426-548.000.

Rienecker, Reimund: *See*—
Henrich, Hans-Otto; and Rienecker, Reimund, 4,710,287, Cl. 209-270.000.

Rienzo, Francis B., to GTE Government Systems Corporation. Apparatus for holding workpiece. 4,687,243, 8-18-87, Cl. 294-86.400.

Riera, Frank J.; and Thorn, Brent A. Automatic fastener system with fastener detection means. 4,672,866, 6-16-87, Cl. 81-57.370.

Riera, John F.; Pavelec, John J.; and Bielawski, Billy J., Sr. Tube cutoff die set. 4,653,368, 3-31-87, Cl. 83-319.000.

Ries, Edward. Variable displacement vane pump or motor. 4,678,413, 7-7-87, Cl. 418-29.000.

Ries, Gunter, to Siemens Aktiengesellschaft. Magnetic apparatus of a system for nuclear spin tomography with a shielding device. 4,635,017, 1-6-87, Cl. 335-301.000.

Ries, Gunter: *See*—
Jahnke, Andreas; Ries, Gunter; and Meier, Konrad, 4,694,868, Cl. 140-92.100.

Ries, Gunther; and Heinzelmann, Karl-Georg, to Siemens Aktiengesellschaft. Magnetic apparatus of a nuclear spin tomography system with an approximately hollow-cylindrical shielding device. 4,673,881, 6-16-87, Cl. 324-318.000.

Ries, Joachim; and Dorgeloh, K. Heinrich W., to Deutsche Forschungs-und Versuchsanstalt fur Luft- und Raumfahrt e.V. Method for the representation of video images or scenes, in particular aerial images transmitted at reduced frame rate. 4,710,809, 12-1-87, Cl. 358-109.000.

Riesco, Luis A., to Allied Corporation. Power converter for synthesizing a wave form. 4,672,521, 6-9-87, Cl. 363-41.000.

Riese, J. Richard. Specimen, sample collection and transport container. 4,637,061, 1-13-87, Cl. 383-38.000.

Riesen, Peter, to Sulzer Brothers Limited. Projectile guide for a weaving machine. 4,653,545, 3-31-87, Cl. 139-188.00R.

Riesenberg, Manfred, to Lewecke Maschinenbau GmbH. Vacuum lifting arrangement. 4,674,785, 6-23-87, Cl. 294-65.000.

Riesenberg, Manfred: *See*—
Lewecke, Ernst; and Riesenberg, Manfred, 4,693,458, Cl. 269-21.000.
Lewecke, Ernst; and Riesenberg, Manfred, 4,703,966, Cl. 294-65.000.

Rieser, Robert L. Combination garment hanger. 4,638,931, 1-27-87, Cl. 223-88.000.

Rieser, Udo. Rollable knife sharpener. 4,672,778, 6-16-87, Cl. 51-354.000.

Riesmeier, Manfred; and Garlichs, Siemen, to Kolbus GmbH. Adhesive application process. 4,677,005, 6-30-87, Cl. 427-428.000.

Riesner, Detlev; and Colpan, Metin. Chromatographic process for the separation of nucleic acids. 4,699,717, 10-13-87, Cl. 210-635.000.

Riesner, Gerhard; and Koch, Walther, to Diehl GmbH & Co. Arrangement of components. 4,698,729, 10-6-87, Cl. 361-386.000.

Riess, Hartmut: *See*—
Wieland, Dieter; Aly, Abou; and Riess, Hartmut, 4,680,862, Cl. 30-381.000.

Riesselmann, Gottfried. Cooking apparatus. 4,715,273, 12-29-87, Cl. 99-442.000.

Riesselmann & Sohn, Firma: *See*—
Seelhorst, Gottfried, 4,638,663, Cl. 73-313.000.

Riester, John B.: *See*—
Petry, Eston F.; and Riester, John B., 4,708,395, Cl. 299-17.000.

Riester, Karlheinz, to Rudolf Riester GmbH & Co. KG Fabrik med. Apparate. Method of manufacturing an otoscope. 4,643,171, 2-17-87, Cl. 128-9.000.

Riester, Karlheinz, to Rudolf Riester GmbH & Co. KG Fabrik. Otoscope, with pivotally mounted loupe. 4,685,452, 8-11-87, Cl. 128-9.000.

Riester, William C.: *See*—
Gowans, Neil A.; and Riester, William C., 4,715,082, Cl. 15-250.420.
Rietberg, Johan: *See*—
Van der Linde, Robert; and Rietberg, Johan, 4,686,270, Cl. 527-601.000.
Rietdijk, Johan A.: *See*—
Gerkema, Jan; Hagen, Johannes L. M.; and Rietdijk, Johan A., 4,644,577, Cl. 378-133.000.
Rieter Machine Works Ltd.: *See*—
Bischofberger, Jurg; and Lattion, Andre, 4,680,925, Cl. 57-263.000.
Bischofberger, Jurg; and Feige, Manfred, 4,714,153, Cl. 198-457.000.
Briner, Emil; and Keller, Urs, 4,669,258, Cl. 57-304.000.
Briner, Emil; and Hieronymi, Richard, 4,680,924, Cl. 57-263.000.
Engeli, Ernst, 4,653,262, Cl. 57-263.000.
Engeli, Ernst; and Slavik, Walter, 4,703,617, Cl. 57-263.000.
Flueli, Adolf; Oswald, Heinz; and Schefer, Kurt, 4,641,793, Cl. 242-18.0PW.
Graber, Werner; and Slavik, Walter, 4,707,976, Cl. 57-263.000.
Graf, Felix; Wirz, Armin; and Mutter, Heinz, 4,650,132, Cl. 242-18.0DD.
Graf, Felix; Schneeberger, Ruedi; and Symon, Georg, 4,712,746, Cl. 242-43.00R.
Lattion, Andre; Bischofberger, Jurg; Salvik, Walter; Stanfer, Jakob; and Schreiber, Manfred, 4,689,945, Cl. 57-263.000.
Malina, Ludek; and Ott, Ernst, 4,635,436, Cl. 57-417.000.
Mutter, Heinz; Sommer, Hans-Jorg; Graf, Felix; and Wirz, Armin, 4,677,387, Cl. 324-454.000.
Ott, Ernst; and Kuratle, Christoph, 4,665,687, Cl. 57-417.000.
Schefer, Kurt, 4,709,866, Cl. 242-18.00A.
Schmid, Rene; and Krehl, Hermann, 4,637,565, Cl. 242-55.100.
Schreiber, Manfred; and Lattion, Andre, 4,653,261, Cl. 57-263.000.
Slavik, Walter; and Luz, Rudolf, 4,662,574, Cl. 242-18.0PW.
Slavik, Walter; Engeli, Ernst; and Lattion, Andre, 4,685,283, Cl. 57-263.000.
Sommer, Hans-Jorg; Mutter, Heinz; Wirz, Armin; and Graf, Felix, 4,713,655, Cl. 340-677.000.
Stalder, Herbert; Baumgartner, Josef; and Wurmli, Arthur, 4,640,089, Cl. 57-401.000.
Stalder, Herbert, 4,660,371, Cl. 57-401.000.
Stapfer, Jakob, 4,656,824, Cl. 57-263.000.
Symon, Georg, 4,667,380, Cl. 28-271.000.
Wurmli, Arthur, 4,649,699, Cl. 57-401.000.
Rieter-Scragg Limited: *See*—
Naylor, Geoffrey; and Lawrence, Christopher J., 4,679,284, Cl. 28-272.000.
Naylor, Geoffrey; and Wilkinson, Philip M., 4,704,858, Cl. 57-340.000.
Robinson, Anthony J., 4,666,098, Cl. 242-131.000.
Riethmann, Max: *See*—
Rietzscher, Rolf; Dersch, Stefan; and Riethmann, Max, 4,711,290, Cl. 164-66.100.
Rietzscher, Rolf; Dersch, Stefan; and Riethmann, Max, to George Fischer Ltd. Method and apparatus for casting iron treated with magnesium. 4,711,290, 12-8-87, Cl. 164-66.100.
Rietzscher, Rolf: *See*—
Hofmann, Franz; Trapp, Hans G.; Rietzscher, Rolf; Otto, Jurgen; Kaettlitz, Wolfgang; and Trinki, Gerd, 4,713,180, Cl. 210-773.000.
Rieu, Jean-Pierre: *See*—
Cousse, Henri; Delhon, Andre ; Rieu, Jean-Pierre; and Patoiseau, Jean-Francois, 4,714,789, Cl. 568-807.000.
Riffiod, Michel; and Tomasi, Jean-Pierre, to Telecommunications Radioelectriques et Telephoniques TRT. Electronically adjustable delay-simulator for distance-measuring apparatus operating on the frequency-modulated continuous wave principle. 4,661,818, 4-28-87, Cl. 342-172.000.
Riffiod, Michel M. R., to U.S. Philips Corporation. Delay simulator for FM-CW range measuring apparatus. 4,679,049, 7-7-87, Cl. 342-172.000.
Riffle, Judy S., and Yilgor, Iskender, to Thoratec Laboratories Corp. Polysiloxane/poly(oxazoline) copolymers. 4,659,777, 4-21-87, Cl. 525-100.000.
Riffle, Judy S.; and Yilgor, Iskender, to Thoratec Laboratories Corp. Hydroxyl-functional disiloxanes and polysiloxane oligomers. 4,689,383, 8-25-87, Cl. 528-12.000.
Riffle, Judy S.: *See*—
Ward, Robert S.; and Riffle, Judy S., 4,663,413, Cl. 528-26.000.
Ward, Robert S., Jr.; and Riffle, Judy S., 4,686,137, Cl. 428-290.000.
Rifkin, Arnold S. Gusset type slide fastener seal. 4,660,874, 4-28-87, Cl. 292-307.00R.
Rifkin, Arnold S. Hooded type bag seal. 4,661,990, 4-28-87, Cl. 383-97.000.
Rifkin, M. S.: *See*—
Utman, Leslie H.; and Rifkin, M. S., 4,648,618, Cl. 280-507.000.
Riga, Joseph: *See*—
Lazzaroni, Roberto; Riga, Joseph; and Verbist, Jacques, 4,663,001, Cl. 204-78.000.
Rigal, Michel R.: *See*—
Collec, Jean P.; and Rigal, Michel R., 4,667,334, Cl. 375-116.000.
Rigamonti, Alessandro: *See*—
Battelli, Gaetano; Oldani, Diego; and Rigamonti, Alessandro, 4,673,262, Cl. 424-131.000.
Riganti, Gianpiero R.: *See*—
Cerini, Adolfo G.; and Riganti, Gianpiero R., 4,665,870, Cl. 123-195.00R.
Rigaud, Philippe: *See*—
Armand, Michel; Chabagno, Jean-Michel; Ricoux, Philippe; Vassort, Guy; Gauthier, Michel; Brochu, Fernand; and Rigaud, Philippe, 4,683,181, Cl. 429-192.000.
Rigby, William R.: *See*—
Furneaux, Robin C.; Rigby, William R.; and Davidson, Alexander P., 4,687,551, Cl. 204-11.000.
Rigdon, Michael A.; and Zurlippe, Clemens F., to Babcock & Wilcox Company, The. Method of fabricating fiber-reinforced metal composites. 4,655,384, 4-7-87, Cl. 228-132.000.
Riggers Manufacturing Co.: *See*—
Trask, Walter H., 4,647,116, Cl. 305-27.000.
Riggi, Michael S. Bird feeder. 4,649,865, 3-17-87, Cl. 119-51.00R.
Riggins, Christa: *See*—
Colavito, William; and Riggins, Christa, 4,715,621, Cl. 283-36.000.
Riggins, Oral L.; and Dyer, Thomas L., Jr., to Westinghouse Electric Corp. Power spark gap assembly for high current conduction with improved sparkover level control. 4,672,259, 6-9-87, Cl. 313-231.110.
Riggio, Stephen C.: *See*—
Jacobson, Walter; Riggio, Stephen C.; and Turner, James E., 4,711,852, Cl. 436-15.000.
Riggs, Allan J.: *See*—
Garin, John; Riggs, Allan J.; and Palmer, Robert S., 4,712,973, Cl. 414-744.00A.
Riggs, Arthur D.: *See*—
Itakura, Keiichi; and Riggs, Arthur D., 4,704,362, Cl. 435-253.000.
Riggs, Charles B., to Maremont Corporation. Fluid cylinder device with precision stroke adjustment. 4,699,044, 10-13-87, Cl. 92-13.600.
Riggs, Donnie E. Shoe with angular slotted midsole. 4,638,577, 1-27-87, Cl. 36-114.000.
Riggs, Gary T., to Cordis Corporation. Process for thermally bonding plastic tubes. 4,636,272, 1-13-87, Cl. 156-158.000.
Riggs, Robert S.: *See*—
Portalupi, Steven J.; and Riggs, Robert S., 4,683,020, Cl. 156-403.000.
Righini, Giancarlo: *See*—
Russo, Vera; Sottini, Stefano; Righini, Giancarlo; and Trigari, Silvana, 4,678,268, Cl. 350-96.180.
Righini, Roy. Display stand. 4,684,029, 8-4-87, Cl. 211-78.000.
Rightnour, Donald G.: *See*—
Berfield, Robert C.; Crevling, Robert L., Jr.; and Rightnour, Donald G., 4,650,200, Cl. 280-47.260.
Rigid Form, Inc.: *See*—
Herrmeyer, Dennis C., 4,695,083, Cl. 292-241.000.
Riglietti, Antonio, to ALTA S.p.A. Hand operated liquid atomizer. 4,678,122, 7-7-87, Cl. 239-333.000.
Rignon, Maurice; Catonne, Jean-Claude; Denisard, Francoise; and Malafosse, Jean, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Process for making amino alcohols by electrochemical reduction of nitro alcohols. 4,678,549, 7-7-87, Cl. 204-74.000.
Rigon, Pietro L. Process for the production of a flexible anatomical insole in wood for shoes and flexible insole obtained by said process. 4,654,915, 4-7-87, Cl. 12-146.00B.
Rigot, Guy J.: *See*—
Le Clerco, Pierre A. L. M. G.; Delhieusy, Jean C.; and Rigot, Guy J., 4,697,955, Cl. 405-135.000.
Rigotti, Victor H.: *See*—
Levine, Michael R.; Russo, James T.; and Rigotti, Victor H., 4,669,654, Cl. 236-46.00R.
Levine, Michael R.; Russo, James T.; Cairo, Anthony C.; and Rigotti, Victor H., 4,695,942, Cl. 364-188.000.
Rigouard, Alain: *See*—
Jamonet, Bernard; Rigouard, Alain; Bouchez, Jean-Pierre; and Duc, Jean, 4,711,721, Cl. 210-607.000.
Rigoulot, Claude, to Commissariat a l'Energie Atomique. Device for the internal machining of a tube. 4,715,751, 12-29-87, Cl. 409-139.000.
Rigsbee, Everett O., III: *See*—
Nelson, Gary A.; Godding, Patrick N.; Schumaker, Richard E.; Walter, Keith D.; Marrone, Edward S.; Gates, Stillman E.; Rigsbee, Everett O., III; and Teener, Michael D., 4,679,191, Cl. 370-84.000.
Rigsby, Donald R.: *See*—
Palentyn, Gunther H.; Dehlinger, James R.; and Rigsby, Donald R., 4,636,608, Cl. 219-121.0LN.
Palentyn, Gunther H.; Dehlinger, James R.; and Rigsby, Donald R., 4,644,128, Cl. 219-121.0LG.
Palentyn, Gunther H.; Dehlinger, James R.; and Rigsby, Donald R., 4,708,390, Cl. 276-188.000.
Riha, Gerd: *See*—
Zibis, Peter; Riha, Gerd; and Veith, Richard, 4,672,339, Cl. 333-194.000.
Riherd, David M.: *See*—
Dyer, Stanley; Molloy, James J.; Nguyen, Thoi; Riherd, David M.; Voit, William F., Jr.; and West, Donald L., 4,641,148, Cl. 346-76.0PH.
Riikonen, Heikki, to Tunturipyora Oy. Wheelchair. 4,679,816, 7-14-87, Cl. 280-650.000.
Riis, Voldemar, to Vargarda Armatur AB. Device at mixing valves. 4,708,172, 11-24-87, Cl. 137-625.170.
Rijckaert, Albert M. A.: *See*—
Vreeken, Roelof; De Niet, Edmond; and Rijckaert, Albert M. A., 4,689,577, Cl. 328-155.000.

Rijckaert, Josephus F.; and Sanders, Rudolf, to U.S. Philips Corporation. Electrical lamp having a sleeve mounted in a lamp cap of synthetic material. 4,634,920, 1-6-87, Cl. 313-318.000.
Rijckaert, Josephus F.: *See*—
Sanders, Rudolf; and Rijckaert, Josephus F., 4,641,056, Cl. 313-51.000.
Rijkaart, Lodewijk C. Slicing apparatus. 4,686,875, 8-18-87, Cl. 83-425.200.
Rijksuniversiteit Groningen: *See*—
De Haan, Pieter; Lerk, Coenraad F.; and Schoonen, Adelbert J. M., 4,708,874, Cl. 424-470.000.
Rijksuniversiteit Leiden: *See*—
Schilperoort, Robbert A.; Krens, Frans A.; and Wullems, George J., 4,684,611, Cl. 435-172.300.
Rijksuniversiteit Utrecht: *See*—
Schuiling, Roelof D., 4,707,348, Cl. 423-554.000.
Rijnders, Willem, to Hunter Douglas International N.V. Panelling system and carrier therefor. 4,671,041, 6-9-87, Cl. 52-762.000.
Rijnders, Willem, to Hunter Douglas International N.V. Suspended ceiling assembly. 4,706,433, 11-17-87, Cl. 52-473.000.
Rijpers, Johannes C. N.: *See*—
Vriens, Leendert; Spruit, Johannes H. M.; Rijpers, Johannes C. N.; and Brandsma, Titus E. C., 4,634,926, Cl. 313-474.000.
Vriens, Leendert; Spruit, Johannes H. M.; Rijpers, Johannes C. N.; and Brandsma, Titus E. C., 4,647,812, Cl. 313-474.000.
Rikagaku Kenkyusho: *See*—
Idesawa, Masanori, 4,637,715, Cl. 356-1.000.
Ogawa, Tomoya; Sugimoto, Mamoru; Shitori, Yoshiyasu; and Ito, Masayoshi, 4,694,076, Cl. 536-17.200.
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Bell, Randy L.; and Moore, George G. I., 4,677,113, Cl. 514-448.000.
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Riley, James K.; and Miller-Jones, Stockton M., to General Electric Company. Method and means for steering phased array scanner in ultrasound imaging system. 4,662,223, 5-5-87, Cl. 73-626.000.
Riley, James K., to General Electric Company. Adaptive time gain compensation system for ultrasound imaging. 4,662,380, 5-5-87, Cl. 128-660.000.
Riley, John A. Method and apparatus for automated polymeric film coating. 4,683,143, 7-28-87, Cl. 427-8.000.
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Riley, Leon H., to United States of America, Army. Filtering transient voltage suppression device assembly. 4,635,158, 1-6-87, Cl. 361-111.000.
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Riley, Mack W., to International Business Machines Corporation. Frequency multiplier circuit. 4,691,170, 9-1-87, Cl. 328-20.000.
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Riley, Paul E.; Ray, Alan B.; and Bayer, Paul, to Fairchild Semiconductor Corporation. Method for planarizing semiconductor substrates. 4,676,868, 6-30-87, Cl. 156-643.000.
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Riley, Timothy W., to Acet Limited. Railhead profile measuring apparatus. 4,674,194, 6-23-87, Cl. 33-551.000.
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Riley, William E., Jr.; Razgaitis, Richard; and Mesloh, Raymond E., to Battelle Development Corporation. Molded ferromagnetic return circuit for a solenoid. 4,647,890, 3-3-87, Cl. 335-278.000.
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Rilling, John F., to Sangamo Weston, Inc. Method of initializing an optical encoder. 4,670,737, 6-2-87, Cl. 340-347.00P.
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Ahern, Douglas K.; Fowlkes, William Y.; and Rimai, Donald S., 4,714,939, Cl. 355-3.0TR.

Rimaire, Jean-Claude: *See*—
Goyau, Gilles; and Rimaire, Jean-Claude, 4,646,985, Cl. 242-54.00R.

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Offutt, James C., 4,657,249, Cl. 273-1.50R.
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Rimington, Richard M.: *See*—
Garman, David E. T.; and Rimington, Richard M., 4,688,760, Cl. 254-93.0HP.

Riml, Peter, to Liebherr-Werk Telfs Ges. m.b.H. Apparatus for tensioning a track chain of a tracklaying vehicle. 4,681,376, 7-21-87, Cl. 305-10.000.

Riml, Peter, to Liebherr-Werk Telfs GES. m.b.H. Tracklaying undercarriage for bulldozer, crawler loaders or other tracklaying vehicles. 4,690,231, 9-1-87, Cl. 180-6.480.

Rimma, John: *See*—
Crockatt, William B.; and Rimma, John, 4,681,910, Cl. 524-487.000.

Rimmele, Karl: *See*—
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Rimmer, James R.; and Sweeney, Ronald M., to Premier Brands U.K. Limited. Production of tea and the like bags. 4,712,358, 12-15-87, Cl. 53-450.000.

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Rimrock Corporation: *See*—
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Buckley, Richard A., 4,635,493, Cl. 74-99.00R.

Rinaldi, Anthony W.: *See*—
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Rinaldi, Claude: *See*—
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Rinaldi, Mark A.: *See*—
Oman, Price W.; Rinaldi, Mark A.; Russo, Vito W.; and Salyer, Gregory, 4,635,186, Cl. 364-200.000.

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Hellwig, Claus; Hempel, Ernst-Heinrich; Kunath, Peter; and Rinckleb, Ulf, 4,649,720, Cl. 66-75.200.

Rind, Wilhelm: *See*—
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Rindal, Abraham E., to RCA Corporation. Phase selectable circuit for use in a stereo demodulator. 4,637,044, 1-13-87, Cl. 381-4.000.

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Rindal, Roald A.; and McKee, Bobby D., to Westinghouse Electric Corp. Homopolar generator with variable packing factor brushes. 4,710,666, 12-1-87, Cl. 310-248.000.

Rinder, Laurenz, to American Standard Inc. Screw rotor profile and method for generating. 4,643,654, 2-17-87, Cl. 718-201.000.

Rinderle, Heinz, to Telefunken Electronic GmbH. Mixer stage. 4,684,833, 8-4-87, Cl. 307-525.000.

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Beckenbach, Walter; and Rinderle, Heinz, 4,639,686, Cl. 330-307.000.
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Rindfleisch, Werner; and Rindfleisch, Stefan. Covering material. 4,652,477, 3-24-87, Cl. 428-40.000.

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Rinehart, Ronald A., to Dana Corporation. Robot arm end adapter. 4,655,630, 4-7-87, Cl. 403-342.000.

Rinehart, Thomas A.: *See*—
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Rinella, Richard J. Windshield mounting assembly. 4,650,240, 3-17-87, Cl. 296-93.000.

Riner, Wilbur L.; and Watson, Bruce W., to Asher Technologies, Inc. Communications unit for executive work station. 4,640,989, 2-3-87, Cl. 379-94.000.

Rinerson, Darrell D., to Advanced Micro Devices, Inc. E^2 prom memory cell. 4,654,825, 3-31-87, Cl. 365-185.000.

Rines, Glen A.; and Kuppenheimer, John D., Jr., to Sanders Associates, Inc. Reflective optical element. 4,662,726, 5-5-87, Cl. 350-444.000.

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Davis, William H., 4,648,204, Cl. 47-58.000.

Ring, Curtis P., to Bralorne Resources Limited. Enclosed jar tool. 4,658,917, 4-21-87, Cl. 175-297.000.

Ring, David F.; Nashed, Wilson; and Dow, Thurman, to Johnson & Johnson Products, Inc. Microbial polysaccharide articles and methods of production. 4,655,758, 4-7-87, Cl. 604-374.000.

Ring King Visibles, Inc.: *See*—
Drake, Craig D.; and Jessen, Ross A., 4,703,919, Cl. 248-677.000.

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Swenson, Roy S.; MacDonald, Donald M.; Ring, Michael; and Field, Jasper H., 4,692,212, Cl. 162-206.000.

Ring, Stefan: *See*—
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Ring, Thomas F., to Fasco Controls Corporation. Switch mechanism with combination spring and assembly retainer. 4,642,432, 2-10-87, Cl. 200-155.00R.

Ringe, Stephen J., to Fruehauf Corporation. Sand shoe. 4,634,144, 1-6-87, Cl. 280-763.100.

Ringel, Helmut, to Kernforschungsanlage Julich GmbH. Process for the separation of krypton from a radioactive waste gas mixture and arrangement for implementing the process. 4,654,056, 3-31-87, Cl. 55-197.000.

Ringel, Konrad; and Degen, Wolfgang, to Diehl GmbH & Co. Process for the introduction of a charge into a projectile casing. 4,651,618, 3-24-87, Cl. 86-20.140.

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Beyer, Hans-Hermann; Dieni, Walter; Eckert, Karlheinz; Eiermann, Kurt; and Ringelstein, Hans-Martin, 4,634,383, Cl. 433-226.000.

Ringer, Donald A.; and Greco, Michael R., to Drug Package, Inc. Medication packaging and dispensing system. 4,685,271, 8-11-87, Cl. 53-246.000.

Ringer, Thomas R., to Canadian Patents and Development Limited. Railway switch control system. 4,687,163, 8-18-87, Cl. 246-428.000.

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Ringermacher, Harry I.; and Williams, Richard S., to United Technologies Corporation. Broadband acoustic point-contact transducer. 4,701,658, 10-20-87, Cl. 310-334.000.

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Muhlhahn, Dieter; Marsella, Gino; Detzner, Friedhelm; Simons, Dieter; Schafer, Horst-Dieter; and Haarkotter, Hermann, 4,660,811, Cl. 267-141.100.

Ringgenberg, Paul D., to Halliburton Company. Multi-mode testing tool and method of use. 4,633,952, 1-6-87, Cl. 166-336.000.

Ringgenberg, Paul D., to Halliburton Company. Assembly for reducing the force applied to a slot and lug guide. 4,650,001, 3-17-87, Cl. 166-373.000.

Ringgenberg, Paul D., to Halliburton Company. Circulation valve and method for operating the same. 4,657,082, 4-14-87, Cl. 166-336.000.

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Ringle, Richard P.: *See*—
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Larson, Richard I.; Ringle, Richard P.; Connolly, John D., Jr.; and Gallivan, Timothy J., 4,696,769, Cl. 252-638.000.
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Archibald, James B.; and Rink, Frederick J., Jr., 4,642,498, Cl. 310-71.000.
Cox, Frederick E.; Rink, Frederick J., Jr.; and Valachovic, Richard A., 4,710,664, Cl. 310-217.000.
Stephens, Charles M.; and Rink, Frederick J., Jr., 4,689,546, Cl. 322-99.000.
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Seager, Richard H., 4,702,398, Cl. 222-3/6.000.
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Riso, Vladimir; and Kuhne, Roland, to International Business Machines Corporation. Bus interface device for a data processing system. 4,648,102, 3-3-87, Cl. 375-106.000.
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Risser, Dale M.; and Lease, Michael E., to Perdue Incorporated. Gizzard harvester. 4,691,410, 9-8-87, Cl. 17-11.000.
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Ritchey, Paul E.; and Jarboe, Joseph L., to Rexworks Inc. Dowel bar placing. 4,688,963, 8-25-87, Cl. 404-72.000.
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Ritchie, Douglas, to Design Corp. Clock. 4,674,891, 6-23-87, Cl. 368-238.000.
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Peterson, Jerry D.; and Knief, Gerald L., 4,633,815, Cl. 119-72.00.
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Hahn, Norbert, 4,692,755, Cl. 340-687.000.
Ritenour, Paul E. Low noise fan. 4,692,091, 9-8-87, Cl. 415-119.000.
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Ritland, Norman A. Prefabricated modular building and method of assembly. 4,655,013, 4-7-87, Cl. 52-80.000.
Ritman, Joost R. Container for holding flatware and dinnerware for serving food. 4,648,511, 3-10-87, Cl. 206-541.000.
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Erlam, David P., 4,656,801, Cl. 52-280.000.
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Stedron, Horst; and Lehr, Lothar, 4,665,654, Cl. 49-484.000.
White, Graham E.; and Lynham, Christopher J., 4,667,367, Cl. 16-258.000.
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Rittenbach, Otto E., to United States of America, Army. Doppler signal processing circuitry. 4,647,874, 3-3-87, Cl. 331-11.000.
Rittenbach, Otto E., to United States of America, Army. Phased array antennas with binary phase shifters. 4,649,393, 3-10-87, Cl. 342-371.000.
Rittenberry, Gary M.; and Bakken, Dennis J. General purpose sensor scanning apparatus. 4,704,609, 11-3-87, Cl. 340-870.130.
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Ritter, David W., to Sound Mist, Inc. Remotely controlled sound mask. 4,686,693, 8-11-87, Cl. 381-73.100.
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Ritter, Robert E.: *See*—
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Ritter, Russell F. Sterile mattress und. 4,700,418, 10-20-87, Cl. 5.449.000.
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Ritter, Wolfgang, to Bayer Aktiengesellschaft. Combating varoatosis in bees. 4,646,377, 3-3-87, Cl. 6-12.00M.
Ritter, Wolfgang, to Henkel Kommanditgesellschaft auf Aktien. Mono and bis (meth)-acrylates, and uses thereof. 4,675,433, 6-23-87, Cl. 560-55.000.
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Rittinger, Herbert; Gertitschke, Detlev H.; Rapp, Karlheinz; and Eberle, Bernd, to Josef Uhlmann Maschinenfabrik GmbH & Co. KG. Apparatus for ordering and feeding a small item like a tablet, capsule, pill or dragee in a packaging machine. 4,693,057, 9-15-87, Cl. 53-539.000.
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Ritzer, Josef: *See*—
Brunner, Josef; and Ritzer, Josef, 4,710,999, Cl. 17-65.000.
Ritzert, Jack L.: *See*—
Manning, Thomas J.; Ritzert, Jack L.; Blouin, Joseph D.; and Mowinski, Josephine A., 4,690,435, Cl. 285-256.000.
Ritzinger, Georg, to Voest-Alpine Automotive Gesselschaft. Synchrogenerator. 4,705,975, 11-10-87, Cl. 310-162.000.
Ritzl, Antal; and Zehnder, Jurg, to Swiss Aluminium Ltd. Covered goods truck, in particular silo truck. 4,678,225, 7-7-87, Cl. 296-181.000.
Ritzl, Fritz: *See*—
Ball, Wilfried; Stelzer, Heinz; Ritzl, Fritz; Siebold, Hermann; Hens, Peter; and Hautmann, Edmund, 4,676,524, Cl. 280-75.600.
Ritzman, Ira G.; and Wright, Joseph W., to RCA Corporation. Imaging system having an improved electrostatic yoke and method of making same. 4,695,775, 9-22-87, Cl. 315-410.000.
Riuli, Arduino; E., to Becton, Dickinson and Company. Syringe assembly. 4,713,060, 12-15-87, Cl. 604-199.000.
Riumbau, Conrad: *See*—
Colodner, Jesse L.; and Riumbau, Conrad, 4,703,165, Cl. 235-487.000.
RIV-SKF Officine di Villar Perosa S.p.A.: *See*—
Bermond, Gabriele; and Vignotto, Angelo, 4,697,936, Cl. 384-484.000.
Bessone, Mario, 4,687,211, Cl. 277-50.000.
Camosso, Domenico; Colanzi, Franco; and Ragazzoni, Silvio, 4,640,238, Cl. 123-90.550.
Colanzi, Franco; and Vignotto, Angelo, 4,669,895, Cl. 384-477.000.
Colanzi, Franco; Vignotto, Angelo; and Bessone, Mario, 4,674,755, Cl. 277-23.000.
Donn, Vittorio; and Cogno, Pietro, 4,651,585, Cl. 74-422.000.
Mirone, Paolo; and Colanzi, Franco, 4,649,875, Cl. 123-90.580.
Pollastro, Giovanni, 4,702,627, Cl. 384-526.000.
Veglia, Bartolomeo, 4,648,475, Cl. 180-297.000.
Riva, Ermete, to Sobrevin Societe de Brevets Industriels-Etablissement. Delivery device for continuous threads. 4,653,701, 3-31-87, Cl. 242-47.010.
Riva, Ermete, to Sobrevin Societe de brevets industriels-Etablissement. Delivery device for continuous threads. 4,687,149, 8-18-87, Cl. 242-47.010.
Riva, Ermete: *See*—
Sisti, Giorgio; Italiano, Pietro; Riva, Ermete; and Tosi, Bruno, 4,644,779, Cl. 73-38.000.
Rival Manufacturing Company: *See*—
Whittenburg, Stephen L.; Morris, David S.; Edmonds, Albert V.; McGaw, John; McCormick, David D.; Bartlett, William L.; Cruz, Edward; and Harding, David, 4,657,193, Cl. 241-282.100.
Rivan, Jehudith: *See*—
Frankel, Harry; Samberg, Jehuda; Bendheim, Uri; Rivan, Jehudith; and Babazada, Mordechai, 4,674,490, Cl. 128-200.140.
Rivas, Luis: *See*—
Garcia, Juan J.; Galiasso, Roberto E.; Ramirez de Agudelo, Magdalena M.; Rivas, Luis; and Hurtado, Juan, 4,701,435, Cl. 502-252.000.
Rivas, Nelson; and Beichel, Rudi, to WorldTech Atlantis Inc. Method and apparatus for secondary and tertiary recovery of hydrocarbons. 4,678,039, 7-7-87, Cl. 166-303.000.
Rivas, Olegario, to Intevep, S.A. Slotted housing having multiple seats for supporting and locating submersible pumps in deep wells. 4,682,655, 7-28-87, Cl. 166-369.000.
Rivasson, Yves: *See*—
Miller, Gilles; and Rivasson, Yves, 4,702,806, Cl. 204-106.000.

River, Bryan H.: *See*—
Conner, Anthony H.; River, Bryan H.; and Lorenz, Linda F., 4,686,140, Cl. 428-342.000.
Rivera, Charles A. Portable chain lock. 4,693,097, 9-15-87, Cl. 70-18.000.
Rivera, Efrain. Push button shift control for bicycles and the like. 4,686,865, 8-18-87, Cl. 74-475.000.
Rivera, Jeremias C., Jr., to Scully-Jones Corp. Coolant delivery system. 4,640,652, 2-3-87, Cl. 409-136.000.
Rivera, Neftali. Arcing fault detector. 4,658,322, 4-14-87, Cl. 361-37.000.
Rivera, Paolo: *See*—
Boella, Marcello; and Rivera, Paolo, 4,650,993, Cl. 250-231.0SE.
Rivero, Mauricio. Plant transporting device. 4,638,595, 1-27-87, Cl. 47-39.000.
Rivero-Olmedo, Jose M. Meter box. 4,669,305, 6-2-87, Cl. 73-201.000.
Riverside International, Inc.: *See*—
Rich, Lawrence D., 4,707,014, Cl. 296-1.00S.
Rivest, Ronald L.; and Shamir, Adi, to Massachusetts Institute of Technology. Method and apparatus for reusing non-erasable memory media. 4,691,299, 9-1-87, Cl. 365-189.000.
Rivett, Paul W. J.: *See*—
Eastwood, H. Keith; and Rivett, Paul W. J., 4,640,576, Cl. 350-96.230.
Rivetti, Franco; Mizia, Franco; Garone, Guido; and Romano, Ugo, to Enichem Sintesi S.p.A. Process for the production of N-methylcarbamates. 4,659,845, 4-21-87, Cl. 549-438.000.
Rivetti, Franco: *See*—
Renzi, Fiorenzo; Rivetti, Franco; Romano, Ugo; and Gaghardi, Claudio, 4,713,433, Cl. 526-314.000.
Rivier, Catherine L.: *See*—
Rivier, Jean E. F.; Varga, Janos L.; Hagler, Arnold T.; Struthers, R. Scott; Perrin, Marilyn H.; Rivier, Catherine L.; and Vale, Wylie W., Jr., 4,661,472, Cl. 514-15.000.
Rivier, Jean E. F.; and Vale, Wylie W., Jr., to Salk Institute for Biological Studies, The. GnRH antagonists VII. 4,652,550, 3-24-87, Cl. 514-15.000.
Rivier, Jean E. F.; Varga, Janos L.; Hagler, Arnold T.; Struthers, R. Scott; Perrin, Marilyn H.; Rivier, Catherine L.; and Vale, Wylie W., Jr., to Salk Institute for Biological Studies, The. GnRH antagonists IX. 4,661,472, 4-28-87, Cl. 514-15.000.
Rivier, Jean E. F.; Anderson, Harry A.; and Vale, Wylie W., Jr., to Salk Institute for Biological Studies, The. Peptides containing an aliphatic-aromatic ketone side chain. 4,677,193, 6-30-87, Cl. 530-313.000.
Rivier, Jean E. F.; Spiess, Joachim; and Vale, Wylie W., Jr., to Salk Institute for Biological Studies, The. Human pancreatic GRF amidated fragments. 4,703,035, 10-27-87, Cl. 514-12.000.
Rivier, Jean E. F.: *See*—
Kornreich, Wayne D.; Anderson, Harry A.; Porter, John S.; and Rivier, Jean E. F., 4,701,499, Cl. 525-333.300.
Roeske, Roger W.; Rivier, Jean E. F.; and Vale, Wylie W., Jr., 4,689,396, Cl. 530-313.000.
Riviera, Paul. Symbol puzzle. 4,687,201, 8-18-87, Cl. 273-153.00R.
Riviere, Guy; and Luczak, Jean P. Traction type press. 4,696,637, 9-29-87, Cl. 425-589.000.
Riviere, Jacques: *See*—
Dagard, Philippe; and Riviere, Jacques, 4,699,755, Cl. 252-631.000.
Rivierre Casalis: *See*—
Mouret, Patrick, 4,649,812, Cl. 100-5.000.
Rivkin, Bernard W. Semi-permanent filing, flagging and indexing system. 4,637,149, 1-20-87, Cl. 40-2.00R.
Rivkin, Efim. Training and exercising machine for football and wrestling. 4,688,792, 8-25-87, Cl. 272-76.000.
Rivoire, Bruno: *See*—
Vigneau, Jean-Louis; Trenque, Pierre; and Rivoire, Bruno, 4,683,905, Cl. 137-329.100.
Rivoli, Anthony L.: *See*—
Gimpelson, George E.; Rivoli, Anthony L.; Gasner, John T.; and George, Elias W., 4,666,737, Cl. 427-89.000.
Gimpelson, George E.; Holbrook, Cheryl L.; and Rivoli, Anthony L., 4,705,597, Cl. 156-643.000.
Rivoli, Mark S., to Northrop Corporation. Substrate container. 4,696,395, 9-29-87, Cl. 206-334.000.
Rivus A/S: *See*—
Andersson, Peter B., 4,646,487, Cl. 52-11.000.
Rix, Francis E.: *See*—
Hayes, David; and Rix, Francis E., 4,667,308, Cl. 364-900.000.
Rizk, Nabil I.; and Stevens, Charles L., to Rizk, Nabil I. Implantable electrophoretic pump for ionic drugs and associated methods. 4,639,244, 1-27-87, Cl. 604-19.000.
Rizk, Reda; and Michels, Hans-Gottfried, to Klockner-Humboldt-Deutz Aktiengesellschaft. Control valve for a fuel injector. 4,653,723, 3-31-87. Cl. 251-282.000.
Rizk, Sidky D.; and Hsieh, Harry W. S., to Essex Specialty Products, Inc. Bonding method employing moisture curable polyurethane polymers. 4,687,533, 8-18-87, Cl. 156-307.300.
Rizkalla, Nabil, to Halcon SD Group, Inc., The. Purification of carboxylic acid anhydrides contaminated with halogen or halides. 4,650,615, 3-17-87, Cl. 260-546.000.
Rizkalla, Nabil, to Halcon SD Group, Inc., The. Preparation of carboxylic acids. 4,659,518, 4-21-87, Cl. 260-413.000.
Rizla Limited: *See*—
Jones, Stanley G., 4,648,862, Cl. 493-346.000.
Rizos, Robert G.: *See*—
Hall, Paul H.; Riley, Steven A.; and Rizos, Robert G., 4,669,300, Cl. 73-105.000.
Rizzardo, Dennis P., to McKesson Corporation. Portable bed assembly. 4,685,160, 8-11-87, Cl. 5-68.000.
Rizzardo, Ezzio: *See*—
Hesse, Robert H.; Rizzardo, Ezzio; and Barton, Derek H. R., 4,670,190, Cl. 260-397.200.
Rizzi, George P.: *See*—
Blum, Robert B.; Gardlik, John M.; Janusz, John M.; and Rizzi, George P., 4,692,513, Cl. 530-801.000.
Haynes, Louis V.; Pflaumer, Phillip F.; Rizzi, George P.; and Roberts, Bruce A., 4,707,365, Cl. 426-94.000.
Rizzi, Marc A.: *See*—
Meeker, Gregory W.; Bleck, Norris E.; Rizzi, Marc A.; and Irick, Carl M., 4,714,422, Cl. 425-204.000.
Rizzie, Joseph W. System for producing uniform velocity distribution of fluids in conduits. 4,660,587, 4-28-87, Cl. 137-8.000.
Rizzie, Joseph W.: *See*—
Hunter, Brook L.; Rizzie, Joseph W.; and Ward, Marvin L., 4,712,847, Cl. 439-155.000.
Rizzo, Christina M.: *See*—
Bondy, Daniel A.; East, Judith A.; and Rizzo, Christina M., 4,641,387, Cl. 5-508.000.
Rizzo, Frank J.: *See*—
Howard, Peter R.; Ekas, Mance; and Rizzo, Frank J., 4,703,541, Cl. 17-71.000.
Rizzo, Gilles: *See*—
Dubertret, Alain; Rizzo, Gilles; Bargain, Raymond; De Mendez, Michel; and Thenaisie, Jacky, 4,687,269, Cl. 439-161.000.
RJB and C Company: *See*—
Baer, Robert J., 4,637,631, Cl. 281-15.00R.
RJB Timing Systems, Inc.: *See*—
Morgan, John A.; Bartula, William; and Gilbert, Richard D., 4,657,403, Cl. 368-6.000.
RJM, Inc.: *See*—
Johnson, Reaves, 4,687,064, Cl. 171-27.000.
RJS Enterprises, Inc.: *See*—
Ulinski, Richard J., Sr.; Clarke, Hugh C.; and Evers, Richard A., 4,699,531, Cl. 400-74.000.
Ulinski, Richard J., Sr., 4,705,939, Cl. 235-466.000.
RJS Industries Inc: *See*—
Bennett, Robert, 4,714,160, Cl. 206-385.000.
RMB Products: *See*—
Shulman, Garson P.; and Fung, Chris C. L., 4,647,597, Cl. 521-185.000.
Shulman, Garson P.; and Fung, Chris C. L., 4,656,198, Cl. 521-56.000.
Shulman, Garson P.; and Fung, Chris C. L., 4,670,478, Cl. 521-88.000.
RMC, Inc.: *See*—
Weiner, Allan J., 4,659,173, Cl. 350-96.240.
RMH Systems, Inc.: *See*—
Hudson, Robert M.; and Fernandez, Alberto, 4,650,978, Cl. 235-380.000.
Roach, Donald J., to Hercules Incorporated. Use of desiccant to control edge fusion in dry film photoresist. 4,680,248, 7-14-87, Cl. 430-270.000.
Roach, Edward F. Turf compatible paver system. 4,671,699, 6-9-87, Cl. 404-41.000.
Roach, Michael J.: *See*—
Blamire, Michael F.; Briscoe, Peter F.; McLeod, Douglas D.; Doolittle, B. Kingsley; and Roach, Michael J., 4,673,900, Cl. 333-167.000.
Roachsmith, Humphrey: *See*—
Brown, Christopher R.; and Roachsmith, Humphrey, 4,641,80: Cl. 246-34.0CT.
Roag (AG): *See*—
Suter, Hans R., 4,710,199, Cl. 8-507.000.
Roalson, Ronald L.: *See*—
Lindell, Allan D.; and Roalson, Ronald L., 4,680,885, Cl. 43-19.200.
Roanoke College: *See*—
Frantz, Virgil L., 4,692,175, Cl. 55-218.000.
Roantree, Michael L.; and Young, Rodney C., to SmithKline & French Laboratories Limited. 2-thiazolyl, oxazolyl, triazolyl and thiadiazolyl alkylamino-3-nitro-heterocyclic compounds. 4,656,176, 4-7-87, Cl. 514-256.000.
Roark, David N.; Nugent, Adam, Jr.; and Bandlish, Baldev K., to Ethyl Corporation. Fluid loss control in well cement slurries. 4,657,948, 4-14-87, Cl. 523-130.000.
Roark, David N., to Ethyl Corporation. Water clarification. 4,661,263, 4-28-87, Cl. 210-735.000.
Roark, David N.; Nugent, Adam, Jr.; and Bandlish, Baldev K., to Ethyl Corporation. Fluid loss control in well cement slurries. 4,698,380, 10-6-87, Cl. 524-2.000.
Roark, David N.; Nugent, Adam, Jr.; and Bandlish, Baldev K., to Ethyl Corporation. Fluid loss control in well cement slurries. 4,706,755, 11-17-87, Cl. 166-295.000.
Roast, William G., to Lilly Industries Limited. Stripper rings for capsule pins. 4,636,165, 1-13-87, Cl. 425-472.000.
Roba, Giacomo, to CSELT Centro Studi e Laboratori Telecomunicazioni S.p.A. Method of fabricating alumina-doped silica fibers. 4,657,575, 4-14-87, Cl. 65-3.120.
Roba, Giacomo, to Cselt - Centro Studi e Laboratori Telecomunicazioni S.p.A. Method of making birefringent optical fibers. 4,659,353, 4-21-87, Cl. 65-3.120.
Roba, Giacomo, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. Method of producing silica optical fibres with reduced volume and surface defects. 4,659,354, 4-21-87, Cl. 65-3.120.

Roba, Giacomo, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. Apparatus for reducing volume and surface defects in silica optical-fibres. 4,702,759, 10-27-87, Cl. 65-13.000.
Roba, Giacomo; and Modone, Eros, to Cselt-Centro Studi e Laboratori Telecomunicazioni S.p.A. Method of producing halide glass, especially for optical communications. 4,711,652, 12-8-87, Cl. 65-18.200.
Roba, Joseph: *See*—
Lambelin, Georges E.; Roncucci, Romeo R.; Roba, Joseph; and Gillet, Claude L., 4,638,070, Cl. 549-23.000.
Roba, Joseph L.: *See*—
Roncucci, Romeo; Gillet, Claude L.; Cordi, Alexis H.; Martens, Mark A.; Roba, Joseph L.; Niebes, Paul J.; Lambelin, Georges E.; and Van Dorsser, William R., 4,639,468, Cl. 514-620.000.
Robak, Casimir B., Jr.: *See*—
Peinecke, Dale R.; Robak, Casimir B., Jr.; and Dubs, Robert A., 4,702,324, Cl. 173-39.000.
Robatel Slpi: *See*—
Davier, Jean-Pierre, 4,702,625, Cl. 384-428.000.
Robb, James R., to Rockwell International Corporation. Address range comparison system using multiplexer for detection of range identifier bits stored in dedicated RAM's. 4,682,283, 7-21-87, Cl. 364-200.000.
Robb, John, to Bamfords International Limited. Agricultural baler. 4,644,739, 2-24-87, Cl. 56-341.000.
Robba, Max F.; and Aurousseau, Michel E., to Innothera. 1-(2-pyridyl) 4-cycloalkylmethyl piperazines having cardiotropic activity. 4,673,675, 6-16-87, Cl. 514-252.000.
Robba, Max-Fernand: *See*—
Arrang, Jean-Michel; Garbarg, Monique; Lancelot, Jean-Charles; Lecomte, Jeanne-Marie; Robba, Max-Fernand; and Schwartz, Jean-Charles, 4,707,487, Cl. 514-326.000.
Robbe & Berking GmbH & Co. KG: *See*—
Hosak-Robb, Barbara, 4,707,922, Cl. 30-322.000.
Robberts, Thomas L.: *See*—
Johnson, Steven L.; Adams, Martin E.; Leffingwell, James P.; Musser, John J.; Hedges, William H.; and Robberts, Thomas L., 4,669,242, Cl. 52-404.000.
Robbi, Anthony D.: *See*—
Sinniger, Joseph O.; and Robbi, Anthony D., 4,638,498, Cl. 377-39.000.
Robbie Manufacturing, Inc.: *See*—
Krichiver, Joel, 4,651,499, Cl. 53-137.000.
Robbie, Roderick G.: *See*—
Allen, Christopher M.; and Robbie, Roderick G., 4,676,033, Cl. 52-6.000.
Robbins, Adam, to Mediscan Research Limited. Patient temperature and heartbeat rate monitoring system. 4,686,998, 8-18-87, Cl. 128-670.000.
Robbins Auto Top Co., Inc.: *See*—
Agosta, Roy P., 4,684,419, Cl. 156-93.000.
Robbins, Brian A., to Water Research Centre. Pipe laying and replacement. 4,634,313, 1-6-87, Cl. 405-184.000.
Robbins, Clyde; and Marz, Daniel J., to General Instrument Corporation. Apparatus and method for stereo television sound. 4,646,150, 2-24-87, Cl. 358-144.000.
Robbins Company, The: *See*—
Sugden, David B.; Cass, David T.; Dowden, Peter B.; and Hynd, Nicholas A., 4,646,853, Cl. 175-94.000.
Robbins, Craig: *See*—
Boote, Carey J.; Robbins, Craig; and Spykerman, Scott A., 4,648,011, Cl. 362-135.000.
Robbins & Craig Welding & Manufacturing Co.: *See*—
Aupperle, Donald P., 4,659,281, Cl. 414-787.000.
Robbins, Daniel T.; and Stewart, Melvin T. Hose support. 4,712,755, 12-15-87, Cl. 248-49.000.
Robbins, David L., to Minnesota Mining and Manufacturing Company. Stethoscope with high frequency filter. 4,633,971, 1-6-87, Cl. 181-131.000.
Robbins, Donald A., to United Technologies Corporation. Turbine module assembly device. 4,653,984, 3-31-87, Cl. 416-198.00A.
Robbins, Donald A.; and Knotek, William R., deceased (by Knotek, Jeanette H., executrix), to United Technologies Corporation. Two stage turbine rotor assembly. 4,664,599, 5-12-87, Cl. 416-198.00A.
Robbins, Edward S., Jr. Composite metal and plastic fence and bracket. 4,684,107, 8-4-87, Cl. 256-19.000.
Robbins, Edward S., Jr., to Centaur Fencing Systems, Inc. Paddock fence layout with concrete footings. 4,706,942, 11-17-87, Cl. 256-35.000.
Robbins, Edward S., III; and Schwertner, Gary T., to Robbins, Edward S., III. Trash bag retainer and air venting device. 4,715,572, 12-29-87, Cl. 248-101.000.
Robbins, Gregory K.: *See*—
Petter, Karl H.; and Robbins, Gregory K., 4,690,587, Cl. 405-211.000.
Robbins, Howard J. Double wall tank manway system. 4,685,585, 8-11-87, Cl. 220-256.000.
Robbins, James A.: *See*—
Leach, Eugene R.; Robbins, James A.; Helton, Steven B.; and Webb, Jeffrey J., 4,658,358, Cl. 364-418.000.
Robbins, John A., to Lumenyte Corporation. High-intensity light source for a fiber optics illumination system. 4,704,660, 11-3-87, Cl. 362-32.000.
Robbins, Kenneth E.; Ruggles, Stephen G.; Duncan, Dan; Williams, John C.; Tung, Stephen K.; Sumner, William J.; and Dinh, Cuong V., to General Electric Company. Stage for a steam turbine. 4,643,645, 2-17-87, Cl. 416-190.000.
Robbins, Kenneth E.: *See*—
Miller, Edward H.; and Robbins, Kenneth E., 4,668,161, Cl. 415-112.000.
Robbins, Kenneth W.: *See*—
Lamensdorf, David; Robbins, Kenneth W.; and Ross, Gerald F., 4,698,633, Cl. 342-42.000.
Ross, Gerald F.; and Robbins, Kenneth W., 4,695,752, Cl. 307-518.000.
Robbins, Lanny A., to Dow Chemical Company, The. System and method for removing volatile components from an aqueous medium. 4,713,089, 12-15-87, Cl. 55-52.000.
Robbins, Max L.: *See*—
Bock, Jan; Brownawell, Darrell W.; Gutierrez, Antonio; Robbins, Max L.; Shaub, Harold; and Steyn, Peter L., 4,684,473, Cl. 252-49.800.
Robbins, Michael S.: *See*—
Seymour, Herbert E.; and Robbins, Michael S., 4,709,412, Cl. 455-603.000.
Robbins, Murray: *See*—
Lyons, Alan M.; Mendenhall, Frederick T., Jr.; Robbins, Murray; Quick, Nathaniel R.; and Wilkins, Cletus W., Jr., 4,691,091, Cl. 219-121.0LM.
Robbins & Myers, Inc.: *See*—
Baumgardner, Terry A.; Krouse, Jere L.; and Wild, Alan G., 4,639,200, Cl. 418-48.000.
Robbins, R. Ralph. Air to air heat exchanger. 4,708,197, 11-24-87, Cl. 165-54.000.
Robbins, Robert L.: *See*—
Maddux, Forrest E., Jr.; Eagle, Paul A.; and Robbins, Robert L., 4,694,638, Cl. 53-459.000.
Robbins, Roland W., Jr. Thermo-hydraulic power supply. 4,658,805, 4-21-87, Cl. 126-425.000.
Robbins, Thomas A.: *See*—
McKay, Robert S.; Robbins, Thomas A.; and Nelson, William D., 4,670,991, Cl. 33-565.000.
Robbins, William L., to United States of America, Navy. Film chip capacitor. 4,695,921, 9-22-87, Cl. 361-308.000.
Robblee, Lois S., to EIC Laboratories, Inc. Iridium oxide coated electrodes for neural stimulation. 4,677,989, 7-7-87, Cl. 128-784.000.
Robe, Thomas J., to AT&T Bell Laboratories. Telephone subscriber loop overvoltage protection integrated circuit. 4,644,437, 2-17-87, Cl. 361-56.000.
Robecchi, Edoardo; and Dell'Orto, Renato, to Industrie Pirelli S.p.A. V-belt of controlled extensibility and relative transmission. 4,708,702, 11-24-87, Cl. 474-261.000.
Robecchi, Edoardo: *See*—
Tangorra, Giorgio; and Robecchi, Edoardo, 4,657,526, Cl. 474-261.000.
Roben Kolloid Entwicklung GmbH & Co. KG.: *See*—
Roben, Wilhelm, 4,648,719, Cl. 366-143.000.
Roben, Wilhelm, to Roben Kolloid Entwicklung GmbH & Co. KG. Colloider for colloidizing flowable materials. 4,648,719, 3-10-87, Cl. 366-143.000.
Roberfroid, Marcel B.; Viehe, Heinz G.; and Hervens, Francoise M., to Biotec. Acylated enamides and pharmaceutical compositions containing them. 4,673,690, 6-16-87, Cl. 514-563.000.
Roberge, Gary D., to United Technologies Corporation. Bevel gear lubrication and cooling. 4,667,774, 5-26-87, Cl. 184-6.120.
Roberge, Guy: *See*—
Ueda, Yasutsugu; and Roberge, Guy, 4,683,296, Cl. 539-558.000.
Roberge, Jacques. Assembly for mounting a light fixture to a support structure. 4,636,926, 1-13-87, Cl. 362-353.000.
Roberge, James K., to Aetna Telecommunications Laboratories. Real time network receiver system fast settling amplifier. 4,680,554, 7-14-87, Cl. 330-260.000.
Robershaw Controls Company: *See*—
McGeorge, Gram J., 4,695,711, Cl. 219-506.000.
Roberson, Dalton. Automatic dual action apparatus and method for uniformly coating the inside of tubular extensions. 4,698,241, 10-6-87, Cl. 427-183.000.
Roberson, Jerry L. Therapy table with feet anchor apparatus. 4,691,919, 9-8-87, Cl. 272-145.000.
Roberson, Morris L.: *See*—
Malito, John T.; and Roberson, Morris L., 4,663,133, Cl. 423-130.000.
Roberson, Walter H., Sr. Test plug assembly. 4,658,861, 4-21-87, Cl. 138-90.000.
Robert B. Cannon, Inc.: *See*—
Cannon, Robert B., 4,679,622, Cl. 165-154.000.
Robert Bosch Corporation: *See*—
Andrews, David H.; Lucht, Philip H.; and Putnam, Leland K., 4,646,075, Cl. 340-747.000.
Robert Bosch GmbH: *See*—
Aberle, Thomas; Belzen, David V.; and Krauter, Immanuel, 4,704,654, Cl. 361-90.000.
Abt, Jurgen; Bollhagen, Heins; Handtmann, Dieter; Kuhn, Ulrich; and Stumpf, Sybille, 4,665,742, Cl. 73-168.000.
Aichele, Hans; Beck, Walter; and Schwerin, Gunther, 4,688,381, Cl. 60-452.000.
Arnold, Herbert; Jundt, Werner; Malicki, Siegfried; and Werner, Peter, 4,653,450, Cl. 123-479.000.
Arnold, Herbert; Bosch, Walter; Horbelt, Michael; Maisch, Wolfgang; Nusser, Hermann; Peters, Klaus-Jurgen; Werner, Peter; and Willke, Clemens, 4,693,111, Cl. 73-118.100.
Arnold, Herbert; Horbelt, Michael; and Jundt, Werner, 4,713,812, Cl. 371-10.000.

Auth, Werner; Lenfers, Martin; Locher, Johannes; Peter, Hans-J.; Pflug, Hannes; Friedbert, Michel; and Steiner, Josef, 4,658,772, Cl. 123-145.00A.
Babitzka, Rudolf; Linder, Ernst; and Polach, Wilhelm, 4,633,837, Cl. 123-478.000.
Babitzka, Rudolf; Hertfelder, Wilhelm; Linder, Ernst; and Schlagmuller, Walter, 4,646,705, Cl. 123-571.000.
Babitzka, Rudolf, 4,660,522, Cl. 123-450.000.
Babitzka, Rudolf, 4,709,673, Cl. 123-299.000.
Bachmann, Horst; and Wulf, Rudolf, 4,668,992, Cl. 358-229.000.
Bachmann, Horst, 4,682,240, Cl. 358-224.000.
Bauer, Hans-Peter, 4,636,961, Cl. 364-474.000.
Bauer, Peter-Josef; Mannle, Erik; Rapp, Kurt; Schemel, Hans-Peter; and Schmidt, Lothar, 4,655,180, Cl. 123-361.000.
Bayha, Kurt; and Weyl, Helmut, 4,636,293, Cl. 204-428.000.
Beck, Walter, 4,651,624, Cl. 91-445.000.
Becker, Rudiger; Clement, Albrecht; Virgilio, Gustav; and Weller, Hugo, 4,697,563, Cl. 123-421.000.
Bentz, Willy; and Jakob, Gert, 4,654,625, Cl. 338-164.000.
Berner, Erwin; and Zettel, Hans-Dieter, 4,637,196, Cl. 53-77.000.
Bertling, Hannes; and Leiber, Heinz, 4,640,555, Cl. 303-10.000.
Bertsch, Richard; Gunther, Dieter; Knapp, Heinrich; and Plapp, Gunther, 4,660,524, Cl. 123-468.000.
Bertsch, Richard; Gunther, Dieter; and Ruppmann, Claus, 4,664,142, Cl. 137-507.000.
Bertsch, Richard; Biermann, Eberhard; Gunther, Dieter; Ruppmann, Claus; and Nagele, Erwin, 4,665,757, Cl. 73-861.760.
Bethge, Gerhard; and Schmitz, Albert, 4,669,250, Cl. 53-33, 500.
Biermann, Eberhard; Rilling, Heinz; and Romann, Peter, 4,649,367, Cl. 338-184.000.
Biermann, Eberhard; Nagele, Erwin; and Romann, Peter, 4,672,356, Cl. 338-184.000.
Bleger, Claude; Bruder, Peter; and Munster, Ernst, 4,664,466, Cl. 339-126.00R.
Bleicher, Manfred; and Bohne, Ulrich, 4,644,835, Cl. 83-471.200.
Blocher, Eberhard; Grob, Ferdinand; Schmidt, Peter-Jurgen; Schmitt, Manfred; and Wahl, Josef, 4,674,459, Cl. 123-436.000.
Blocher, Eberhard; Kohler, Rolf; Schmidt, Peter-Jurgen; Schmitt, Manfred; and Wahl, Josef, 4,676,215, Cl. 123-489.000.
Bode, Werner; Franz, Peter; and Wilke, Heinrich, 4,649,309, Cl. 310-234.000.
Bode, Werner; Franz, Peter; Ross, Werner; and Schulze, Gunter, 4,667,394, Cl. 29-597.000.
Bode, Werner; Franz, Peter; Hausdorf, Reiner; and Schulze, Gunter, 4,698,902, Cl. 29-597.000.
Bodensieck, Hans-Rudolf; Dobler, Karl-Otto; Hanel, Horst; Kohler, Kurt; Liedtke, Frieder; and Seliger, Siegfried, 4,658,340, Cl. 362-267.000.
Bohmler, Heinz; and Daumer, Rolf, 4,677,558, Cl. 364-431.040.
Bohmler, Heinz; Daumer, Rolf; Mayer, Dieter; and Perenthaler, Egbert, 4,715,009, Cl. 364-565.000.
Bohringer, Wilfried; Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Laufer, Helmut, 4,649,883, Cl. 123-449.000.
Bohringer, Wilfried; and Eheim, Franz J., deceased, 4,702,680, Cl. 417-490.000.
Bohringer, Wilfried; Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Laufer, Helmut, 4,714,412, Cl. 417-289.000.
Bonitz, Jorg; Entenmann, Robert; Miller, Bernhard; Rauch, Hans; Rohde, Siegfried; Unland, Stefan; and Viess, Walter, 4,700,677, Cl. 123-425.000.
Bonse, Bernhard; and Schmidt, Peter-Jurgen, 4,651,697, Cl. 123-436.000.
Bosch, Franz-Ulrich; Muller, Willi; Schacht, Hans; and Straubel, Max, 4,683,055, Cl. 210-120.000.
Brauer, Ilan; Bruggen, Gerhard; and Karr, Dieter, 4,660,523, Cl. 123-458.000.
Braun, Gunter; Jundt, Werner; Miller, Norbert; and Nager, Jurgen, 4,689,746, Cl. 364-431.050.
Breitkreuz, Helmut; Clement, Albrecht; Mayer, Dieter; Ruppmann, Claus; Walz, Dieter; Wild, Ernst; and Zechnall, Martin, 4,683,861, Cl. 123-520.000.
Britsch, Heinz; and Moser, Winfried, 4,665,737, Cl. 73-35.000.
Buchner, Norbert; Lemke, Kuno; and Vogele, Gunter, 4,638,925, Cl. 222-21.000.
Buchner, Norbert; and Domke, Klaus, 4,653,661, Cl. 220-209.000.
Buchschmid, Emil; Frenznick, Anton; Neidhard, Klaus; and Robl, Gerhard, 4,652,818, Cl. 324-174.000.
Buck, Manfred; Fehrle, Siegfried; Holzel, Martin; Kabatnik, Wilfried; Schmid, Wolfgang; and Wanner, Karl, 4,693,407, Cl. 227-109.000.
Buck, Rainer; Wessel, Wolf; and Stumpp, Gerhard, 4,686,830, Cl. 60-603.000.
Burger, Kurt; Friedrich, Heinz; Molkner, Thomas; and Schottle, Peter, 4,708,769, Cl. 156-659.100.
Cao, Chi-Thuan; Janetzke, Helmut; Cordes, Henning; and Kauff, Helmut, 4,677,560, Cl. 364-431.070.
Cigolotti, Jean-Pierre; and Leblanc, Jean, 4,634,109, Cl. 267-170.000.
Clement, Albrecht; Virgilio, Gustav; and Weller, Hugo, 4,643,153, Cl. 123-486.000.
Clement, Albrecht; Mayer, Dieter; and Wild, Ernst, 4,671,244, Cl. 123-489.000.
Conrad, Hans-Jurgen, 4,712,998, Cl. 432-159.000.
Conzelmann, Gerhard; and Nagel, Karl, 4,689,711, Cl. 361-91.000.
Cornelius, Peter, 4,635,601, Cl. 123-339.000.
Daumer, Rolf; Klotzner, Winfried; and Schenk, Manfred, 4,653,015, Cl. 364-569.000.
Daumuller, Hans; and Weber, Walter, 4,642,739, Cl. 362-226.000.
Denz, Helmut; and Stumm, Hans-Peter, 4,685,435, Cl. 123-478.000.
Denz, Helmut, 4,700,673, Cl. 123-325.000.
Dettling, Hubert; Eisele, Hermann; Haag, Gottlob; Hagele, Karl-Heinz; Linder, Ernst; and Polach, Wilhelm, 4,649,703, Cl. 60-275.000.
Dettling, Hubert; Haag, Gottlob; Hagele, Karl-Heinz; Leonhard, Rolf; and Polach, Wilhelm, 4,693,078, Cl. 60-295.000.
Djordjevic, Ilija, 4,685,433, Cl. 123-373.000.
Doderer, Gerhard; Kiefer, Heinz; and Krieger, Willi, 4,708,706, Cl. 493-295.000.
Domke, Klaus, 4,690,667, Cl. 493-213.000.
Dressler, Helmut; Engenhart, Peter; Jahnel, Klaus; Kochendorfer, Heinrich; Kuhn, Ulrich; Matthas, Karl H.; and Schuster, Kurt, 4,635,173, Cl. 362-294.000.
Drews, Ulrich; and Kleinhans, Josef, 4,658,641, Cl. 73-118.200.
Dreyer, Adolf; and Roozenbeek, Herman, 4,637,247, Cl. 73-35.000.
Eblen, Ewald; Hofmann, Karl; Holzgrefe, Volker; Pigeroulet, Jean; Rodriguez-Amaya, Nestor; Simon, Nikolaus; Trachte, Dietrich; Weiss, Friedrich; and Ziegler, Ewald, 4,653,455, Cl. 123-506.00.
Eckardt, Dieter; and Hettich, Gerhard, 4,712,064, Cl. 324-208.000.
Eckert, Konrad; Eisele, Hermann; Laufer, Helmut; and Straubel, Max, 4,655,184, Cl. 123-458.000.
Eckert, Konrad, 4,655,440, Cl. 267-64.110.
Eggert, Albert; Montag, Jurgen; Muller, Manfred; and Wieter, Peter, 4,672,672, Cl. 381-69.000.
Eheim, Franz, 4,665,872, Cl. 123-357.000.
Eheim, Franz; Hofer, Gerald; Konrath, Karl; and Straubel, Max, 4,703,730, Cl. 123-373.000.
Eheim, Franz, deceased, 4,635,602, Cl. 123-357.000.
Eheim, Franz, deceased, 4,662,337, Cl. 123-450.000.
Eheim, Franz, deceased; Hofer, Gerald; and Straubel, Max, 4,664,081, Cl. 123-380.000.
Eisele, Albert; Hess, Jurgen; and Krimmer, Erwin, 4,647,087, Cl. 292-45.000.
Falk, Gerhard, 4,692,675, Cl. 318-254.000.
Faupel, Werner, 4,633,936, Cl. 123-467.000.
Faupel, Werner; and Schmidt, Klaus, 4,635,605, Cl. 123-449.000.
Fauser, Edwin; List, Hans; and Schirmer, Gunter, 4,665,399, Cl. 340-870.320.
Fauser, Edwin; and List, Hans, 4,716,372, Cl. 328-146.000.
Fehrenbach, Siegfried; Herbst, Kurt; Schulz, Wolfgang; and Utz, Eberhard, 4,679,537, Cl. 123-447.000.
Fiebig, Arnim; and Weber, Rupert, 4,716,304, Cl. 307-270.000.
Flaig, Ulrich; and Sieber, Albrecht, 4,696,276, Cl. 123-478.000.
Flohrs, Peter; and Michel, Hartmut, 4,695,867, Cl. 357-46.000.
Frank, Rudiger, 4,657,491, Cl. 418-136.000.
Franz, Herbert; and Pfluger, Gerhard, 4,705,983, Cl. 310-68.00D.
Frenznick, Anton; Just, Bernhard; Krauss, Eugen; Pfander, Werner; and Trankle, Ewald, 4,674,816, Cl. 439-588.000.
Friebe, Karl-Heinz; Heinz, Karl-Otto; and Scholten, Werner, 4,642,030, Cl. 417-203.000.
Frister, Manfred, 4,687,960, Cl. 310-42.000.
Fromme, Georg, 4,712,186, Cl. 364-565.000.
Gademann, Lothar; and Tschepella, Johann, 4,661,835, Cl. 357-68.000.
Gademann, Lothar; Hirt, Adam; Michel, Hartmut; Schmid, Hans-Dieter; and Schneider, Michael, 4,694,814, Cl. 123-644.000.
Gademann, Lothar; Mattes, Bernhard; Mausner, Eberhard; Schowerskyj, Wadym; and Rittmannsberger, Norbert, 4,700,973, Cl. 280-735.000.
Gansert, Willi; Lochbrunner, Eduard; and Slansky, Harry, 4,713,573, Cl. 310-329.000.
Gassmann, Heiner; Beck, Siegfried; and Heinlein, Werner, 4,714,278, Cl. 285-169.000.
Gehrmann, Rainer, 4,709,192, Cl. 315-371.000.
Geringer, Bernhard; Linder, Ernst; Rembold, Helmut; and Ruoff, Manfred, 4,671,221, Cl. 123-90.160.
Gerstner, Bruno; Pfeiffer, Rudiger; and Seng, Berthold, 4,651,040, Cl. 310-166.000.
Glas, Hans J.; Hecht, Hans; Muller, Klaus; Spitzenberger, Kurt; and Stecher, Gunther, 4,711,130, Cl. 73-708.000.
Glaser, Gerhard; Lindae, Gerhard; Perthus, Peter; and Rein, Heinz, 4,701,834, Cl. 362-307.000.
Glockler, Otto; Gunther, Dieter; and Steinbrenner, Ulrich, 4,644,922, Cl. 123-493.000.
Gmelin, Karl; Kubach, Hans; Maisch, Wolfgang; Peters, Klaus-Jurgen; and Schelhas, Peter, 4,648,368, Cl. 123-454.000.
Gotsch, Dieter; Klenk, Robert; Hafner, Otto; and Suss, Claus, 4,635,732, Cl. 173-162.00R.
Graser, Franz; Langer, Werner; and Nowak, Reiner, 4,705,210, Cl. 239-585.000.
Gressler, Walter; and Kern, Karl, 4,639,185, Cl. 414-733.000.
Griese, Klaus; Mayer, Siegfried; and Weigle, Dieter, 4,681,514, Cl. 417-213.000.
Grob, Ferdinand; Schmidt, Peter-Jurgen; and Wahl, Josef, 4,646,697, Cl. 123-436.000.
Grunwald, Werner; and Schmid, Kurt, 4,692,657, Cl. 313-130.00.
Guntert, Josef; Hafele, Walter; and Tschoke, Helmut, 4,705,005, Cl. 123-500.000.
Guntert, Josef; Hafele, Walter; and Tschoke, Helmut, 4,708,114, Cl. 123-449.000.
Gunther, Uwe; Nagel, Karl; and Kalkhof, Bernd, 4,652,144, Cl. 374-178.000.

Haag, Gottlob; Hagele, Karl-Heinz; and Harer, Helmut, 4,634,806, Cl. 174-211.000.
Haberland, Siegfried, 4,679,993, Cl. 417-490.000.
Hafele, Walter; Kramer, Manfred; Schmieder, Dietmar; and Warga, Johann, 4,640,255, Cl. 123-495.000.
Hafele, Walter; and Schenk, Bernhard, 4,692,102, Cl. 417-296.000.
Hafele, Walter; and Guntert, Josef, 4,706,626, Cl. 123-364.000.
Hafner, Udo; Hans, Waldemar; Kind, Wilhelm; Krauss, Rudolf; and Sauer, Rudolf, 4,678,124, Cl. 239-585.000.
Hafner, Udo, 4,704,591, Cl. 335-229.000.
Handtmann, Dieter; and Kuhn, Ulrich, 4,688,424, Cl. 73-204.000.
Hans, Waldemar; Linssen, Mathias; and Sauer, Rudolf, 4,634,055, Cl. 239-533.300.
Hans, Waldemar; Linssen, Mathias; and Sauer, Rudolf, 4,651,931, Cl. 239-533.960.
Hans, Waldemar; Kind, Wilhelm; Knapp, Heinrich; Kramer, Wolfgang; and Sauer, Rudolf, 4,700,891, Cl. 239-132.500.
Haug, Kurt; and Petersen, Rudolf, 4,710,857, Cl. 362-80.000.
Hausdorfer, Michael, 4,635,104, Cl. 358-31.000.
Hausdorfer, Michael, 4,656,502, Cl. 358-31.000.
Heess, Gerhard; and van Zanten, Anton, 4,709,969, Cl. 303-114.000.
Heess, Gerhard; Karnopp, Dean; and van Zanten, Anton, 4,714,300, Cl. 303-115.000.
Heitmann, Jurgen, 4,672,467, Cl. 358-314.000.
Heizmann, Frieder, 4,713,707, Cl. 360-106.000.
Herden, Werner; and Saggau, Boye, 4,636,690, Cl. 315-58.000.
Herden, Werner, 4,653,459, Cl. 123-637.000.
Hescher, Manfred; and Rosignol, Heinrich, 4,649,443, Cl. 360-84.000.
Hess, Heinz; and Peth, Horst, 4,679,064, Cl. 358-24.000.
Hess, Heinz, 4,688,083, Cl. 358-30.000.
Hess, Heinz; and Peth, Horst, 4,698,667, Cl. 358-35.000.
Hofer, Friedrich-Wilhelm; and Schwerin, Gunther, 4,660,380, Cl. 60-422.000.
Hofer, Gerald; and Schwarz, Manfred, 4,649,879, Cl. 123-373.000.
Hofer, Gerald; and Nothdurft, Heinz, 4,662,336, Cl. 123-449.000.
Hogh, Josef; and Schacht, Hans, 4,702,790, Cl. 156-293.000.
Hornung, Friedrich; Paule, Kurt; and Schadlich, Fritz, 4,673,318, Cl. 408-9.000.
Hutter, Odo; and Jung, Rainer, 4,684,010, Cl. 198-765.000.
Itoh, Katsuoki; and Komaroff, Ewan, 4,662,338, Cl. 123-467.000.
Jaggle, Gunther; Kubach, Hans; and Paschke, Werner, 4,666,087, Cl. 239-451.000.
Janetzke, Helmut; Kauff, Helmut; and Stocker, Herbert, 4,658,783, Cl. 123-339.000.
Jeenicke, Edmund; Schenk, Manfred; and Schmid, Hans-Jorg, 4,651,292, Cl. 364-571.000.
Junginger, Erich; Schnaibel, Eberhard; and Schneider, Erich, 4,638,228, Cl. 318-569.000.
Kaiser, Gunther; and Krauter, Immanuel, 4,709,684, Cl. 123-644.000.
Kammeyer, Karl-Dirk; and Rungeler, Andreas, 4,646,173, Cl. 360-51.000.
Kaufmann, Reinhold, 4,664,092, Cl. 123-643.000.
Kehl, Georg; Pahl, Arnold; Schafer, Ernst-Dieter; and Siegel, Heinz, 4,650,363, Cl. 403-140.000.
Kehl, Georg; and Schafer, Ernst-Dieter, 4,701,990, Cl. 29-441.00R.
Kienzle, Wolfgang; Paschke, Werner; Sauer, Rudolf; and Knapp, Heinrich, 4,650,122, Cl. 239-497.000.
Kirschner, Michael; Rapp, Gunter; and Zechnall, Martin, 4,682,049, Cl. 307-268.000.
Klein, Karl-Heinz; and Richter, Wilfried, 4,680,774, Cl. 375-26.000.
Klemmer, Wolfram, 4,689,678, Cl. 358-164.000.
Knapp, Heinrich; Krauss, Rudolf; Sauer, Rudolf; and Sumal, Jahnid-Singh, 4,653,720, Cl. 251-65.000.
Knapp, Heinrich, 4,662,567, Cl. 239-585.000.
Knapp, Heinrich, 4,671,245, Cl. 123-545.000.
Knoll, Peter, 4,653,868, Cl. 350-355.000.
Knoll, Peter, 4,679,044, Cl. 340-815.200.
Kopke, Wolfgang; Eggert, Albert; Wiener, Peter; Gotze, Gerd-Wolfgang; and Maas, Rainer, 4,689,820, Cl. 381-68.000.
Kranzler, Ernst, 4,638,196, Cl. 310-50.000.
Kranzler, Ernst, 4,649,308, Cl. 310-214.000.
Kratt, Alfred; and Peter, Cornelius, 4,669,301, Cl. 73-118.200.
Krauss, Rudolf; and Sauer, Rudolf, 4,666,088, Cl. 239-533.120.
Kreuzer, Helmut; and Meier, Klaus-Peter, 4,682,410, Cl. 29-596.000.
Krieger, Eberhard; and Moser, Theo, 4,643,297, Cl. 198-803.010.
Kubach, Hans; and Rupp, Hartmann, 4,639,822, Cl. 361-155.000.
Kubach, Hans, 4,664,355, Cl. 251-65.000.
Kuhbauch, Gerd, 4,639,966, Cl. 15-250.230.
Kuhn, Ulrich, 4,715,224, Cl. 73-204.000.
Kull, Hermann; Sautter, Wilfried; and Wessel, Wolf, 4,656,986, Cl. 123-357.000.
Kuttner, Thomas; and Wessel, Wolf, 4,688,535, Cl. 123-436.000.
Laufer, Helmut, 4,711,221, Cl. 123-503.000.
Lauterbach, Heinz; Kienzle, Wolfgang; and Ziegler, Ewald, 4,660,531, Cl. 123-456.000.
Leblanc, Jean; Pigeroulet, Jean; and Rossignol, Francois, 4,648,556, Cl. 239-88.000.
Leblanc, Jean; Pigeroulet, Jean; and Rossignol, Francois, 4,669,659, Cl. 239-91.000.
LeBlanc, Jean, 4,696,271, Cl. 123-299.000.
Lehmann, Klaus; and Muller, Karl-Heinz, 4,654,605, Cl. 331-55.000.
Leiber, Heinz, 4,643,485, Cl. 303-96.000.
Leiber, Heinz, 4,645,272, Cl. 303-119.000.
Leiber, Heinz; Jonner, Wolf-Dieter; and Czinczel, Armin, 4,647,115, Cl. 303-106.000.
Leiber, Heinz, 4,655,511, Cl. 303-92.000.
Leiber, Heinz, 4,655,512, Cl. 303-114.000.
Leiber, Heinz; and Mergenthaler, Robert, 4,657,046, Cl. 137-627.500.
Leiber, Heinz, 4,657,314, Cl. 303-100.000.
Leiber, Heinz, 4,660,897, Cl. 303-114.000.
Leiber, Heinz, 4,662,687, Cl. 303-110.000.
Leiber, Heinz, 4,674,805, Cl. 303-114.000.
Leiber, Heinz, 4,678,243, Cl. 303-114.000.
Leiber, Heinz, 4,711,266, Cl. 137-554.000.
Leiber, Heinz, 4,715,661, Cl. 303-10.000.
Leonhard, Rolf; and Dettling, Hubert, 4,672,808, Cl. 60-286.000.
Leroy, Andre; and Flamme, Jean M., 4,683,605, Cl. 15-250.210.
Lietar, Christian; and Perthus, Peter, 4,669,032, Cl. 362-61.000.
Lindae, Gerhard; Perthus, Peter; and Rein, Heinz, 4,697,225, Cl. 362-61.000.
Linder, Ernst; and Rembold, Helmut, 4,653,447, Cl. 123-357.000.
Linder, Ernst; and Schlagmuller, Walter, 4,667,639, Cl. 123-450.000.
Linder, Ernst; Rembold, Helmut; Straubel, Max; and Teegen, Walter, 4,690,373, Cl. 251-129.020.
Loewe, Richard; and Perthus, Peter, 4,685,036, Cl. 362-61.000.
Lotterbach, Gerhard; Schenk, Manfred; Zucker, Udo; Van Belzen, David; and van Woudenberg, Jan F., 4,700,305, Cl. 364-431.030.
Maisch, Wolfgang; and Treiber, Jurgen, 4,642,602, Cl. 338-162.000.
Maisch, Wolfgang, 4,671,246, Cl. 123-571.000.
Maisch, Wolfgang, 4,694,272, Cl. 338-138.000.
Mannle, Erik; and Bauer, Peter-Josef, 4,706,062, Cl. 338-172.000.
Mattes, Bernhard; Oswald, Klaus; and Suchowerskyj, Wadym, 4,638,179, Cl. 307-10.0SB.
Mattes, Bernhard; Mausner, Eberhard; and Suchowerskyj, Wadym, 4,641,041, Cl. 307-10.00R.
Merkel, Wilfried; and Kolb, Erich, 4,649,590, Cl. 15-250.210.
Merkus, Minne, 4,709,528, Cl. 53-128.000.
Modic, Fedor; Leibfried, Wolfgang; Nitsch, Manfred; Spitzenberger, Kurt; and Zimmermann, Herbert, 4,640,739, Cl. 156-659.100.
Muller, Frank, 4,688,645, Cl. 173-116.000.
Muller, Hans-Martin, 4,681,076, Cl. 123-488.000.
Nitschke, Werner, 4,635,180, Cl. 363-98.000.
Nitschke, Werner; and Taufer, Peter, 4,658,202, Cl. 323-275.000.
Nolting, Peter, 4,682,536, Cl. 98-2.010.
Palesch, Reinhard, 4,703,258, Cl. 324-73.00R.
Palm, Volker; and Pfuhl, Berthold, 4,708,596, Cl. 417-218.000.
Pape, Werner, 4,677,951, Cl. 123-357.000.
Peter, Cornelius; and Ruppmann, Claus, 4,672,934, Cl. 123-339.000.
Peters, Klaus-Jurgen, 4,694,808, Cl. 123-453.000.
Plapp, Gunther; Zichner, Botho; Jautelat, Rudiger; Kohler, Rolf; Kratt, Alfred; and Muller, Hans-Martin, 4,705,007, Cl. 123-519.000.
Polach, Wilhelm, 4,689,951, Cl. 60-275.000.
Polach, Wilhelm; and Rembold, Helmut, 4,690,374, Cl. 251-129.020.
Rebmann, Manfred; and Weigold, Helmut, 4,690,668, Cl. 493-297.000.
Rebmann, Manfred; Rothermel, Otto; and Stirnkorb, Willi, 4,693,052, Cl. 53-167.000.
Reinold, Martin; and Schmidt, Peter, 4,669,430, Cl. 123-179.0BG.
Reiter, Ferdinand, 4,660,011, Cl. 335-230.000.
Rembold, Helmut; and Teegen, Walter, 4,646,976, Cl. 239-585.000.
Rembold, Helmut; Ruoff, Manfred; and Teegen, Walter, 4,674,451, Cl. 123-90.160.
Richter, Hans-Peter, 4,641,180, Cl. 358-31.000.
Richter, Hans-Peter, 4,706,110, Cl. 358-19.000.
Schauwecker, Friedrich; and Weber, Walter, 4,695,928, Cl. 362-61.000.
Schillinger, Rainer, 4,653,979, Cl. 415-53.00T.
Schirmer, Guenter; and Woelffing-Seelig, Gerhard, 4,701,596, Cl. 219-483.000.
Schleupen, Richard; Mayer, Ulrich; Bauer, Bernhard; and Langner, Arnd M., 4,696,002, Cl. 371-12.000.
Schmid, Gunter; and Neuffer, Kurt, 4,669,016, Cl. 360-122.000.
Schnaibel, Eberhard; and Schneider, Erich, 4,689,554, Cl. 324-73.00R.
Schwartz, Reinhard, 4,690,624, Cl. 417-499.000.
Sigl, Alfred, 4,671,373, Cl. 180-197.000.
Sochor, Josef, 4,638,382, Cl. 360-68.000.
Stumpe, Werner, 4,677,557, Cl. 364-426.000.
Stumpp, Gerhard; and Wessel, Wolf, 4,667,633, Cl. 123-357.000.
Stumpp, Gerhard; Sautter, Wilfried; and Wessel, Wolf, 4,671,232, Cl. 123-300.000.
Urban, Manfred, 4,683,568, Cl. 371-12.000.
van Zanten, Anton; Heess, Gerhard; and Geering, Hans P., 4,679,866, Cl. 303-104.000.
van Zanten, Anton; and Heess, Gerhard, 4,715,662, Cl. 303-109.000.
Wannenwetsch, Peter, 4,648,369, Cl. 123-467.000.
Weischedel, Guido, 4,690,114, Cl. 123-357.000.
Weitzel, Otto, 4,686,568, Cl. 358-150.000.
Wendland, Broder; and Schroeder, Hartmut, 4,635,114, Cl. 358-140.000.
Wunsch, Steffen; Zilly, Gunter; and Schneider, Helmut, 4,683,659, Cl. 30-381.000.
Zabler, Erich, 4,649,340, Cl. 324-207.000.

Zieger, Dietmar; Pignoni, Anthony R.; Geise, Heinz-Dieter; Fisher, Mike; and Pointer, R. LaVerne, 4,672,481, Cl. 360-14.100.
Ziegler, Wolfgang, 4,657,348, Cl. 350-347.00R.

Robert Fireman's Furniture Gallery, Inc.: *See*—
Wiggins, William B., 4,642,823, Cl. 5-47.000.

Robert Krause GmbH & Co. KG: *See*—
Kissel, Karl-Heinz; and Oevermann, Siegfried, 4,678,357, Cl. 402-39.000.
Kissel, Karl-Heinz, 4,690,580, Cl. 402-39.000.

Robert Krups Stiftung & Co. KG.: *See*—
Borgmann, Michael, 4,644,856, Cl. 99-295.000.
Fuhner, Hubert; and Henn, Stefan, 4,669,672, Cl. 241-57.000.
Henn, Stefan, 4,700,903, Cl. 241-101.200.
Maass, Rudolf, 4,662,084, Cl. 34-99.000.
Mahlich, Gotthard C.; and Maass, Rudolf, 4,658,511, Cl. 34-97.000.

Robert, Ladislas; Hornebeck, William; and Moczar, Elemer, to Centre National de la Recherche Scientifique. Peptide derivatives, the preparation and their use as elastase inhibitors. 4,665,053, 5-12-87, Cl. 514-18.000.

Robert Linkletter Associates, Inc.: *See*—
Agbay, Albert J.; and Thomas, Ralph H., Sr., 4,646,926, Cl. 215-203.000.

Robert Mathys Co.: *See*—
Mathys, Robert, 4,685,923, Cl. 623-22.000.

Robert Morton DG Limited: *See*—
Wilkinson, Noel R., 4,653,388, Cl. 99-277.200.

Robert, Pierre H.: *See*—
Augello, Daniel; Robert, Pierre H.; Teshima, Toru; and Naete, Hidehiko, 4,663,718, Cl. 364-444.000.
Teshima, Tohru; Funaoka, Chihiro; and Robert, Pierre H., 4,647,901, Cl. 340-52.00R.
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Robert, Serge; and Fevrier, Pierre, to U.S. Philips Corporation. Data processing system which permits of using the same erasable and programmable memory for instructions and data both in reading and writing. 4,665,480, 5-12-87, Cl. 364-200.000.

Robert, Yves; and Hendrickson, Phillip, to Robert, Yves. Apparatus for examination of the innermost part of an eye. 4,662,731, 5-5-87, Cl. 351-214.000.

Roberto, Mostura: *See*—
Mottana, Sergio; and Roberto, Mostura, 4,635,526, Cl. 89-1.410.

Roberts, Alfred L., to Delta Salvage Energy, Inc. Cell boiler. 4,641,606, 2-10-87, Cl. 122-214.000.

Roberts, Allen M.; Sangster, Andrew; and Stroll, Zoltan, to Xerox Corporation. Halftoning implementation for interactive image editing. 4,706,077, 11-10-87, Cl. 340-728.000.

Roberts, Arthur: *See*—
Leeds, Richard; and Roberts, Arthur, 4,709,971, Cl. 312-201.000.

Roberts & Associates Water and Waste Treatment Limited: *See*—
Roberts, Charles G., 4,640,307, Cl. 137-448.000.

Roberts, Auston K.; Trainer, William E.; Nakamura, Steve; Duffin, Leon C.; and Biederman, David L., to Stauffer Chemical Company. Treatment of pyrophoric elemental phosphorus-containing material. 4,686,094, 8-11-87, Cl. 423-322.000.

Roberts, Barry N. Beach blanket with sand pockets. 4,654,906, 4-7-87, Cl. 5-417.000.

Roberts, Bobby S. Muscular rehabilitation apparatus for exercising human body appendages. 4,640,268, 2-3-87, Cl. 128-25.00R.

Roberts, Brian G.; and Rey, Paul A., to Calgon Corporation. Method and emulsions for the control of dust. 4,650,598, 3-17-87, Cl. 252-88.000.

Roberts, Brian J.; and Walters, James T., to International Totalizator Systems, Inc. Secure placement of confidential information on a circulated blank ticket. 4,677 553, 6-30-87, Cl. 364-412.000.

Roberts, Brian L.: *See*—
Moffitt, Michael S.; and Roberts, Brian L., 4,682,693, Cl. 206-583.000.

Roberts, Bruce A.: *See*—
Haynes, Louis V.; Pflaumer, Phillip F.; Rizzi, George P.; and Roberts, Bruce A., 4,707,365, Cl. 426-94.000.

Roberts, Bruce E.; Black, Jimmy C.; and Matlock, Dyer A., to Harris Corporation. Method of ensuring adhesion of chemically vapor deposited oxide to gold integrated circuit interconnect lines. 4,713,260, 12-15-87, Cl. 437-238.000.

Roberts, Bruce E.; Black, Jimmy C.; and Matlock, Dyer A., to Harris Corporation. Method of ensuring adhesion of chemically vapor deposited oxide to gold integrated circuit interconnect lines. 4,716,071, 12-29-87, Cl. 428-209.000.

Roberts, Bruce E.: *See*—
Black, Jimmy C.; and Roberts, Bruce E., 4,702,967, Cl. 428-620.000.

Roberts, Bryan E., to E I. Du Pont de Nemours and Company. Protein translation method. 4,668,624, 5-26-87, Cl. 435-68.000.

Roberts, C. Kenard, to Stanley Works, The. Knife blade package and container therefor. 4,681,223, 7-21-87, Cl. 206-354.000.

Roberts, Catherine H.: *See*—
Chlebowski, Jan F.; and Roberts, Catherine H., 4,650,760, Cl. 435-7.000.
Chlebowski, Jan F.; and Roberts, Catherine H., 4,656,128, Cl. 435-7.000.

Roberts, Charles G., to Roberts & Associates Water and Waste Treatment Limited. Float valve. 4,640,307, 2-3-87, Cl. 137-448.000.

Roberts, Charles G.: *See*—
Simmons, Arturo; Walsh, Shawn T.; and Roberts, Charles G., 4,714,949, Cl. 357-23.130.

Roberts, Clayton R.; and Nightingale, Stephen J., to Motorola, Inc. Mixer for use in a microwave system. 4,661,997, 4-28-87, Cl. 455-327.000.

Roberts, Clive J.: *See*—
Irwin, Jere F.; Doornink, John R.; and Roberts, Clive J., 4,687,144, Cl. 241-49.000.

Roberts, Clyde D., to Telex Computer Products, Inc. Fixed/adjustable head mount. 4,683,507, 7-28-87, Cl. 360-109.000.

Roberts Corporation: *See*—
Bellis, Kenneth E.; Brown, Jackson E.; and Nagarwalla, Pheroze J., 4,714,100, Cl. 164-18.000.

Roberts, Craig: *See*—
Goldman, Mark; Frank, Robert; Roberts, Craig; and Jacobs, Norman, 4,643,343, Cl. 224-275.000.

Roberts, David; and Williams, Michael R., to Ranks Hovis McDougall plc. Testing samples. 4,640,614, 2-3-87, Cl. 356-36.000.

Roberts, David; and Johnson, Henry S., to King Taudevin & Gregson (Holdings) Limited. Vitrification of asbestos waste. 4,678,493, 7-7-87, Cl. 65-134.000.

Roberts, David A.: *See*—
Campbell, Simon F.; and Roberts, David A., 4,710,507, Cl. 514-312.000.
Maroulis, Peter J.; Coe, Charles G.; Kuznicki, Steven M.; Clark, Patrick J.; and Roberts, David A., 4,713,362, Cl. 502-85.000.

Roberts, David L.; and van Velzen, Johan F. G., to Shell Oil Company. Method of recovering hydrocarbons from an underground formation. 4,643,257, 2-17-87, Cl. 166-303.000.

Roberts, David L., to Shell Internationale Research Maatschappij B.V. Fume extractor device. 4,708,177, 11-24-87, Cl. 141-93.000.

Roberts, Dennis W.: *See*—
King, Charles L.; Mussro, Nicholas J., Jr.; and Roberts, Dennis W., 4,666,763, Cl. 428-221.000.

Roberts, Donald L.; Angel, Anthony L.; Clark, Douglas C.; Clearman, Jack F.; and Sink, T. Stephen, to R. J. Reynolds Tobacco Company. Puff control cigarette. 4,638,820, 1-27-87, Cl. 131-336.000.

Roberts, Donald L.: *See*—
Redding, Jerry W.; Roberts, Donald L.; and Woods, Lionna K., 4,643,205, Cl. 131-275.000.

Roberts, Donald M.: *See*—
Morris, David B.; Rollett, Andrew C.; and Roberts, Donald M., 4,714,177, Cl. 222-58.000.

Roberts, Donald R., to DeSoto, Inc. Epoxy-phosphate/phenolic electrocoating compositions. 4,692,484, 9-8-87, Cl. 523-414.000.

Roberts, Durward T., Jr.: *See*—
Bryant, Lynn A.; Roberts, Durward T., Jr.; Beckman, Joseph A.; Tazewell, Joseph H.; and Cetnar, James F., 4,684,420, Cl. 156-116.000.

Roberts, Ernest E.; Hansel, Paul H.; and Hudgens, William O., to Atlantic Richfield Company. Method and apparatus for assembling large panels. 4,640,734, 2-3-87, Cl. 156-562.000.

Roberts, Ernest E.: *See*—
Curry, Herbert L.; and Roberts, Ernest E., 4,661,394, Cl. 428-212.000.

Roberts, F. Alex, to Chevron Research Company. Submerged marine streamer locator. 4,635,236, 1-6-87, Cl. 367-19.000.

Roberts, F. Alex, to Chevron Research Company. Method and apparatus for locating a submerged marine streamer. 4,669,067, 5-26-87, Cl. 367-19.000.

Roberts, Fred E. Adjustable table top assembly. 4,681,042, 7-21-87, Cl. 108-6.000.

Roberts, Gareth G.; Blackburn, Brian; Petty, Michael C.; and Holcroft, Brian, to Vickers Public Limited Company. Assembly and method for Langmuir-Blodgett film production. 4,645,693, 2-24-87, Cl. 427-402.000.

Roberts, Gary F., to Kartridg Pak Co., The. Apparatus for making filled food articles. 4,691,627, 9-8-87, Cl. 99-450.600.

Roberts, Gary F.: *See*—
Woodworth, Gary C.; and Roberts, Gary F., 4,658,729, Cl. 99-450.600.

Roberts, George A.: *See*—
Slobodnik, Andrew J., Jr.; Stiglitz, Martin R.; Roberts, George A.; and Webster, Richard T., 4,712,078, Cl. 331-99.000.

Roberts, George W.; Hansel, James G.; and Shahani, Goutam H., to Air Products and Chemicals, Inc. Enhanced crude oil recovery. 4,690,215, 9-1-87, Cl. 166-261.000.

Roberts, Gerald E.; Toliver, Samuel; and Crescenzi, Robert J., to General Electric Company. Method and apparatus for selectively fine-tuning a coupled-dual resonator crystal and crystal manufactured thereby. 4,676,993, 6-30-87, Cl. 427-10.000.

Roberts, Gerald L. to General Electric Company. Clothes washing machine. 4,637,230, 1-20-87, Cl. 68-4.000.

Roberts, Harold, to Magnetic Controls Company. Monolithic fiber optic coupler having total internal reflecting surface. 4,699,453, 10-13-87, Cl. 350-96.200.

Roberts, Harold, to ADC Fiber Optics Corporation. Unitary body optical coupler. 4,701,010, 10-20-87, Cl. 350-96.150.

Roberts, Helen F.: *See*—
Guthrie, James L.; Roberts, Helen F.; and Lundsager, Christian B., 4,661,675, Cl. 219-91.210.

Roberts, Ian S., to David Brown Gear Industries (Proprietary) Limited. Slow speed pinion drive. 4,674,348, 6-23-87, Cl. 74-411.000.

Roberts, James M.: *See*—
Roberts, Phoebe; and Roberts, James M., 4,703,975, Cl. 297-429.000.

Roberts, James R., to Eucatex S.A. Industria e Comercio of Sao Paulo. High strength, cellulosic-gel-containing kraft paper and process for making the same. 4,692,211, 9-8-87, Cl. 162-147.000.

Roberts, Janet S.: *See*—
LoJacono, Francis X.; and Roberts, Janet S., 4,702,448, Cl. 248-231.700.

Roberts, Jeff, to Roberts, Jeff, a part interest. Aligning rail ends for welding. 4,674,730, 6-23-87, Cl. 269-43.000.

Roberts, Jerry G. Auxiliary propulsion system on trailer. 4,676,330, 6-30-87, Cl. 180-14.200.

Roberts, Jessie E., to Arthur B. Myr Industries, Inc. Paint spray booth. 4,664,060, 5-12-87, Cl. 118-326.000.

Roberts, John C. Solar-powered illuminated reflector. 4,668,120, 5-26-87, Cl. 404-12.000.

Roberts, John P.; and Vuillermoz, Maxime L., to National Research Development Corporation. Active control of acoustic instability in combustion chambers. 4,644,783, 2-24-87, Cl. 73-116.000.

Roberts, John T.; and Reid, Philip L. Case packing apparatus. 4,633,653, 1-6-87, Cl. 53-498.000.

Roberts, John T. Method of dispensing from a cartridge for thermoplastic articles. 4,662,974, 5-5-87, Cl. 156-344.000.

Roberts, John W.: *See*—
Buck, Gerald F.; Roberts, John W.; and Sable, Steven, 4,689,204, Cl. 422-100.000.

Roberts, Jon A.: *See*—
Eric, David G.; Roberts, Jon A.; and Lee, Eddie C., 4,713,682, Cl. 357-54.000.

Roberts, Jonathan, to Essex Group, Inc. Resin rich mica tape. 4,704,322, 11-3-87, Cl. 428-251.000.

Roberts, Joseph B.: *See*—
Horton, Harold E.; and Roberts, Joseph B., 4,707,850, Cl. 379-29.000.
Horton, Harold E.; and Roberts, Joseph B., 4,707,851, Cl. 379-29.000.

Roberts, Joseph M., Sr. Fishing rod holder having integral alarm and mounting structure. 4,641,453, 2-10-87, Cl. 43-17.000.

Roberts, Karl A.: *See*—
Pendleton, Eric; Roberts, Karl A.; and Murray, Alan, 4,681,729, Cl. 376-247.000.
Pendleton, Eric; Roberts, Karl A.; and Murray, Alan, 4,696,787, Cl. 376-247.000.

Roberts, Landon S.: *See*—
Krohn, James V.; Heidner, Melvin J.; Pittman, Edward F.; and Roberts, Landon S., 4,704,265, Cl. 423-497.000.

Roberts, Lawrence R.: *See*—
Welch, Phillip W.; and Roberts, Lawrence R., 4,635,858, Cl. 241-16.000.

Roberts, Luther C.: *See*—
Gruenbaum, William T.; Harmon, Julie P.; and Roberts, Luther C., 4,711,832, Cl. 430-106.000.

Roberts, Lyn M.; Shrier, Robert L.; and Laxton, Raymond, to AGB Research PLC. Storing data relating to television viewing. 4,642,685, 2-10-87, Cl. 358-84.000.

Roberts, Malcolm E. C., to Rediffusion Simulation Limited. Simulator. 4,667,199, 5-19-87, Cl. 342-169.000.

Roberts, Maurice P., to TRW Inc. Steering apparatus. 4,694,925, 9-22-87, Cl. 180-79.100.

Roberts, Melvin F., to Bloomfield Industries, Inc. Improved safety thermostat system for electric beverage making device. 4,641,011, 2-3-87, Cl. 219-328.000.

Roberts, Melvin F., to Bloomfield Industries, Inc. Thermostat sensing tube and mounting system for electric beverage making device. 4,641,012, 2-3-87, Cl. 219-331.000.

Roberts, Melvin F., to Bloomfield Industries, Inc. Beverage making device. 4,650,158, 3-17-87, Cl. 251-144.000.

Roberts, Michael, to Pilkington P.E. Limited. Infra-red lenses. 4,676,581, 6-30-87, Cl. 350-1.300.

Roberts, Michael, to Pilkington P.E. Limited. Infra-red lenses. 4,679,891, 7-14-87, Cl. 350-1.300.

Roberts, Michael G.; Ponn, Frederick H.; and Bolen, Charles E., to Owens-Corning Fiberglas Corporation. Asphalt coating composition. 4,654,385, 3-31-87, Cl. 524-69.000.

Roberts, Mildred E. Ventilated medical cushion or pad. 4,688,285, 8-25-87, Cl. 5-468.000.

Roberts, Patrick S.; and Weiss, Leonard, to Spartus Corporation. Transformerless clock circuit with duplex optoelectronic display. 4,697,930, 10-6-87, Cl. 368-82.000.

Roberts, Paul C.: *See*—
Dignard, Michael J.; and Roberts, Paul C., 4,662,630, Cl. 272-76.000.

Roberts, Peter; and Chung, Sydney, to G Enterprises Limited. High performance automotive muffler. 4,673,058, 6-16-87, Cl. 181-266.000.

Roberts, Peter: *See*—
Entwistle, Brian; Roberts, Peter; and Rogerson, John M., 4,698,766, Cl. 364-468.000.

Roberts, Peter A. Methods and apparatus for funding future liability of uncertain cost. 4,642,768, 2-10-87, Cl. 364-408.000.

Roberts, Peter A.; Norton, Hamish W. M.; and Finnerty, John D., to Lazard Freres & Co. Methods and apparatus for restructuring debt obligations. 4,648,038, 3-3-87, Cl. 364-408.000.

Roberts, Phoebe; and Roberts, James M. Birthing chair. 4,703,975, 11-3-87, Cl. 297-429.000.

Roberts, Richard A.: *See*—
Haziegrove, Billy M.; and Roberts, Richard A., 4,710,059, Cl. 405-162.000.

Roberts, Richard D.; and Walker, William D., to Harris Corporation. Local area network equalization system and method. 4,637,064, 1-13-87, Cl. 455-67.000.

Roberts, Richard D.: *See*—
Smith, Donald E.; and Roberts, Richard D., 4,635,280, Cl. 375-120.000.

Roberts, Robert D.: *See*—
Bower, Allen M.; and Roberts, Robert D., 4,649,970, Cl. 141-302.000.
Bower, Allen M.; Butterfield, Eric J.; and Roberts, Robert D., 4,697,624, Cl. 141-208.000.

Roberts, Roland Q., Jr. Boot carrier. 4,696,504, 9-29-87, Cl. 294-148.000.

Roberts, Ronald R. Fence installation apparatus. 4,705,262, 11-10-87, Cl. 256-37.000.

Roberts, Rowena L.: *See*—
Chmurny, Alan B.; Gross, Akiva T.; Kupper, Robert J.; and Roberts, Rowena L., 4,710,583, Cl. 560-40.000.

Roberts, Roy D., to ILC Technology, Inc. Arc lamp for one-step brazing. 4,658,179, 4-14-87, Cl. 313-113.000.

Roberts, Roy D., to ILC Technology, Inc. Method for assembling arc lamp. 4,702,716, 10-27-87, Cl. 445-26.000.

Roberts, Russell S.; and Briddell, Charles D., to C. D. Briddell Inc.; and Lubkin Frozen Foods, Inc. Methods and apparatus for forming loose meat into lumps. 4,646,385, 3-3-87, Cl. 17-45.000.

Roberts, Simon. Pneumatic tire leak detector. 4,693,118, 9-15-87, Cl. 73-40.700.

Roberts, Simon. Tire repair method. 4,710,249, 12-1-87, Cl. 156-64.000.

Roberts, Stanley: *See*—
Chot, Kwangwoo; and Roberts, Stanley, 4,663,191, Cl. 427-93.000.

Roberts, Terry E.: *See*—
Manns, Michael C.; and Roberts, Terry E., 4,681,239, Cl. 220-408.000.

Roberts, Thomas G.; and Honeycutt, Thomas E., to United States of America, Army. Sphericon. 4,639,642, 1-27-87, Cl. 315-39.000.

Roberts, Thomas G.; and Honeycutt, Thomas E., to United States of America, Army. CO_2 laser weapon countermeasure. 4,673,250, 6-16-87, Cl. 350-320.000.

Roberts, Thomas G.; Conrad, Raymond W.; Otto, William F.; and Honeycutt, Thomas E., to United States of America, Army. Precision laser beam positioner and spatially resolved laser beam sampling meter. 4,692,623, 9-8-87, Cl. 250-349.000.

Roberts, Thomas G.; Conrad, Raymond W.; and Honeycutt, Thomas E., to United States of America, Army. Apparatus for plasma diagnostics. 4,707,133, 11-17-87, Cl. 356-320.000.

Roberts, Thomas G.: *See*—
Honeycutt, Thomas E.; and Roberts, Thomas G., 4,647,204, Cl. 356-350.000.
Honeycutt, Thomas E.; and Roberts, Thomas G., 4,658,109, Cl. 219-121.0LC.
Honeycutt, Thomas E.; and Roberts, Thomas G., 4,677,398, Cl. 332-7.510.
Otto, William F.; Roberts, Thomas G.; Jenkins, Andrew H.; and Honeycutt, Thomas E., 4,645,448, Cl. 431-1.000.
Otto, William F.; Jenkins, Andrews H.; Roberts, Thomas G.; and Honeycutt, Thomas E., 4,649,955, Cl. 137-624.130.

Roberts, Timothy A. Honing device. 4,696,129, 9-29-87, Cl. 51-214.000.

Roberts, Tiner E., to Flo-Bob Industries Inc. Apparatus and process for dry cutting of plastic optical lenses. 4,655,005, 4-7-87, Cl. 51-124.00L.

Roberts, Victor D.; and Borowiec, Joseph C., to General Electric Company. Drive and control circuits for gate capacitance latch with refresh lamp ballast. 4,677,346, 6-30-87, Cl. 315-226.000.

Roberts, Victor D., to General Electric Company. Operation of standby filament associated with an AC arc discharge lamp ballast. 4,709,188, 11-24-87, Cl. 315-178.000.

Roberts, Victor D.; and Borowiec, Joseph C., to General Electric Company. Single-conductor power line communications system. 4,714,912, 12-22-87, Cl. 340-310.00R.

Roberts, W. F. Dual purpose closure for heat exchangers. 4,640,348, 2-3-87, Cl. 165-158.000.

Roberts, William, to Uddeholm Tooling Aktiebolag. Low-alloy steel material, die blocks and other heavy forgings made thereof and a method to manufacture the material. 4,673,433, 6-16-87, Cl. 75-53.000.

Roberts, William A., Jr. Crappie fishing rod. 4,654,994, 4-7-87, Cl. 43-19.000.

Roberts, William B.: *See*—
Razinsky, Elias H.; Roberts, William B.; and Longhouse, Richard E., 4,692,098, Cl. 416-223.00R.

Roberts, William J., to Allied Corporation. Power limiter for electrical contacts. 4,706,151, 11-10-87, Cl. 361-6.000.

Roberts, William N., to Zenith Electronics Corporation. Single layer optical coupler for projection TV CRT. 4,710,820, 12-1-87, Cl. 358-231.000.

Roberts, William N.: *See*—
Pricone, Robert M.; and Roberts, William N., 4,672,089, Cl. 524-354.000.

Robertsen, Anthony L., to Elite Concepts, Inc. Programmable timing device. 4,690,566, 9-1-87, Cl. 368-108.000.

Robertshaw Controls Company: *See*—
Buckshaw, Thomas M.; and Llewellyn, David T., 4,696,204, Cl. 74-567.000.
Dodson, David M., 4,641,778, Cl. 236-20.00R.
Everett, Charles J.; and Ochsner, Rolf H., 4,695,829, Cl. 340-586.000.
Fowler, Daniel L., 4,689,879, Cl. 29-622.000.
Fowler, Daniel L., 4,697,057, Cl. 219-10.55B.
Frankenberg, Alfred A., 4,653,932, Cl. 368-220.000.

Geary, Frederick J., 4,643,668, Cl. 431-70.000.
Geary, Frederick J., 4,680,005, Cl. 431-46.000.
Geary, Frederick J., 4,711,628, Cl. 431-31.000.
Genbauffe, Francis S.; Erdelsky, Joseph J.; and Shopsky, Harvey J., 4,662,393, Cl. 137-613.000.
Katchka, Jay R.; Yeaman, George A.; and McKinney, Richard W., 4,640,676, Cl. 431-54.000.
Katchka, Jay R.; and McKinney, Richard W., 4,655,803, Cl. 55-322.000.
Katchka, Jay R., 4,684,340, Cl. 431-80.000.
Kelly, Samuel T., 4,643,391, Cl. 251-85.000.
Kelly, Samuel T., 4,653,530, Cl. 137-489.500.
Kelly, Samuel T., 4,706,704, Cl. 137-489.500.
Lewis, Jay L., 4,657,407, Cl. 368-184.000.
Lucas, William L.; Asbill, Clarence M., III; Frank, Gerald L.; and Miller, David M., 4,679,583, Cl. 137-84.000.
McGeorge, Gram J., 4,636,621, Cl. 219-506.000.
McIntosh, Harold A., 4,641,223, Cl. 361-424.000.
McIntosh, Harold A., 4,651,414, Cl. 29-825.000.
Ochsner, Rolf H., 4,637,131, Cl. 29-622.000.
Ochsner, Rolf H.; and Everett, Charles J., 4,697,054, Cl. 200-82.00R.
Price, Larry V., 4,634,289, Cl. 368-220.000.
Sepso, Roger P., 4,653,283, Cl. 62-89.000.
Shopsky, Harvey J., 4,638,148, Cl. 219-497.000.
Shopsky, Harvey J., 4,651,968, Cl. 251-11.000.
Shopsky, Harvey J., 4,681,296, Cl. 251-11.000.
Shopsky, Harvey J., 4,685,652, Cl. 251-11.000.
Sliger, Boyd P.; and Wagner, Joseph P., 4,691,861, Cl. 236-34.500.

Robertson, Albert W., to Air Stamping, Inc. Bearer wiper assembly. 4,704,964, 11-10-87, Cl. 101-425.000.

Robertson, Anthony J.: *See*—
Hirotsu, Dennis O.; and Robertson, Anthony J., 4,662,875, Cl. 604-389.000.

Robertson, Beverly M.: *See*—
Robertson, Jesse C.; and Robertson, Beverly M., 4,635,953, Cl. 280-480.000.

Robertson, Brian T., to General Electric Company. Microstrip line and method for fabrication. 4,703,392, 10-27-87, Cl. 361-402.000.

Robertson, Brian W.; and Phillips, Gareth T., to Shell Internationale Research Maatschappij B.V.; and Gist Brocades N.V. Immobilization of microorganisms on a plastic carrier. 4,696,901, 9-29-87, Cl. 435-180.000.

Robertson, Carlton E., to Carolina Power & Light Company. Decontamination of radioactively contaminated liquids. 4,681,705, 7-21-87, Cl. 252-631.000.

Robertson, Charles D., to Plastic Oddities, Inc. Looped strap wrench for rotating cylindrical objects. 4,646,593, 3-3-87, Cl. 81-64.000.

Robertson, Charles M. Curling brooms. 4,638,522, 1-27-87, Cl. 15-160.000.

Robertson, David W., to Eli Lilly and Company. Inotropic agents. 4,647,564, 3-3-87, Cl. 514-254.000.

Robertson, David W., to Eli Lilly and Company. Anticonvulsant agents. 4,684,748, 8-4-87, Cl. 514-619.000.

Robertson, David W.: *See*—
Beedle, Edward E.; and Robertson, David W., 4,642,379, Cl. 564-155.000.

Robertson Engineering (Thame) Limited: *See*—
Wauchope, Stirling G.; and McLean, Malcolm J., 4,679,471, Cl. 82-12.000.

Robertson, Gerald F.: *See*—
Zogg, Robert A.; Robertson, Gerald F.; and Brown, Will C., 4,705,103, Cl. 165-110.000.

Robertson, Ian M., to Channelwood Preservations Ltd. Drill jig. 4,705,436, 11-10-87, Cl. 408-72.00R.

Robertson, Jack R. Device for diagnosing and relieving female incontinence. 4,669,478, 6-2-87, Cl. 128-630.000.

Robertson, James B., to United States of America, National Aeronautics and Space Administration. Flat-panel, full-color, electroluminescent display. 4,689,522, 8-25-87, Cl. 313-506.000.

Robertson, James C.: *See*—
Baker, William R.; Marulic, Walter J.; and Robertson, James C., 4,677,918, Cl. 105-378.000.

Robertson, James D., to Mead Corporation, The. Display unit. 4,633,788, 1-6-87, Cl. 108-108.000.

Robertson, Jesse C.; and Robertson, Beverly M. Tow cable with bracket and storage means. 4,635,953, 1-13-87, Cl. 280-480.000.

Robertson, John A., to Telesis Controls Corporation. Code reader. 4,680,457, 7-14-87, Cl. 235-470.000.

Robertson, John M., deceased: *See*—
Haisma, Jan; van der Werf, Pieter; Robertson, John M., deceased; and de Haan, Freidrich J., administrator, 4,679,892, Cl. 350-96.120.

Robertson, John W., Jr.; Bastijanic, Edward; and Sterling, Edward L., Jr., to Babcock & Wilcox Company, The. Self-zeroing pressure transmitter with automatic pressure manifold. 4,655,074, 4-7-87, Cl. 73-4.00R.

Robertson, John W., Jr.: *See*—
Fry, John J.; Bastijanic, Edward; and Robertson, John W., Jr., 4,703,407, Cl. 363-16.000.
Wroblewski, David J.; and Robertson, John W., Jr., 4,692,933, Cl. 377-29.000.

Robertson, Nathaniel: *See*—
Robertson, Nathaniel, Sr.; and Robertson, Nathaniel, 4,700,555, Cl. 70-203.000.

Robertson, Nathaniel, Sr.; and Robertson, Nathaniel. Anti-theft device. 4,700,555, 10-20-87, Cl. 70-203.000.

Robertson, Philip D.; and Solorzano, Armando N., to Xanar, Inc. Smoke evacuator system for use in laser surgery. 4,701,193, 10-20-87, Cl. 55-217.000.

Robertson, R. W.: *See*—
Rossborough, Richard F.; and Whitty, Graeme, 4,711,258, Cl. 134-133.000.

Robertson, Warren D.: *See*—
Gorter, Helen R.; Moran, Lyle E.; Robertson, Warren D.; and Savard, Shaunalea, 4,711,672, Cl. 106-281.00R.

Robertson, Wayne W.: *See*—
Hilton, Glenn B.; and Robertson, Wayne W., 4,716,196, Cl. 525-72.000.

Robertson, William J.: *See*—
Gladstone, David H.; Langlois, Raymond; and Robertson, William J., 4,646,615, Cl. 89-15.000.

Robertson, William M. Knife sharpener. 4,646,477, 3-3-87, Cl. 51-204.000.

Robertsson, Karl T. W.: *See*—
Carlsson, Stiv E. I.; Gustafsson, Lars-Erik; and Robertsson, Karl T. W., 4,674,924, Cl. 407-114.000.

Robeson, Lloyd M.; Harris, James E.; Maresca, Louis M.; and Kawakami, James H., to Amoco Corporation. Polycarbonate blends. 4,665,122, 5-12-87, Cl. 524-504.000.

Robeson, Lloyd M., to Amoco Corporation. Alloys of a poly(arylene sulfide) and a poly(aryl ketone). 4,684,699, 8-4-87, Cl. 525-471.000.

Robeson, Lloyd M.; Harris, James E.; Kawakami, James H.; and Maresca, Louis M., to Amoco Corporation. Miscible blends of polycarbonate with vinyl chloride derived polymers. 4,698,390, 10-6-87, Cl. 525-133.000.

Robeson, Lloyd M.: *See*—
Dickinson, Barry L.; Robeson, Lloyd M.; and Sauers, Marvin E., 4,643,937, Cl. 428-215.000.
Harris, James E.; and Robeson, Lloyd M., 4,713,426, Cl. 525-471.000.
Kawakami, James H.; Harris, James E.; Maresca, Louis M.; Robeson, Lloyd M.; and Cotter, Robert J., 4,705,822, Cl. 524-425.000.

Robey, Herbert L., to Canadian Patents and Development Limited. High thermal flux density wet oxidation steam generator. 4,670,162, 6-2-87, Cl. 210-761.000.

Robichon, Patrice: *See*—
Mergey, Claude; and Robichon, Patrice, 4,652,714, Cl. 219-64.000.

Robideau, Terry. Radiator cap safety twist-off tool. 4,697,480, 10-6-87, Cl. 81-3.090.

Robidoux, Richard R.; and Hoverman, Ronald B., to Northern Telecom Limited. Data recovery and clock circuit for use in data test equipment. 4,706,033, 11-10-87, Cl. 328-139.000.

Robie, Lyndon J.: *See*—
Hampson, Alfred A.; Hampson, Blair M.; Aldrich, Stuart R.; and Robie, Lyndon J., 4,653,627, Cl. 194-209.000.

Robieux, Jean, to Compagnie Generale d'Electricite. Optical fiber telecommunication device. 4,710,914, 12-1-87, Cl. 370-3.000.

Robillard, Fred W. System for freeze protection of pipes. 4,672,990, 6-16-87, Cl. 137-59.000.

Robillard, Jean J. A. Non-silver photosensitive article and process. 4,699,872, 10-13-87, Cl. 430-336.000.

Robillard, Jean J. A. Device for the qualitative measurement of uv radiation received by the skin. 4,705,046, 11-10-87, Cl. 128-665.000.

Robin-Champigneul, Yves: *See*—
Rozenwaig, Boris; and Robin-Champigneul, Yves, 4,641,376, Cl. 455-607.000.

Robin, Jacques; Pruneau, Didier; and Bonenfant, Alain, to Societe de Recherches Industrielles. Asymmetric heterocyclic ester derivatives of 1,4-dihydropyridine-3,5-dicarboxylic acids. 4,710,505, 12-1-87, Cl. 514-278.000.

Robin, Jacques: *See*—
Majoie, Bernard; Bellamy, Francois; Dodey, Pierre; and Robin, Jacques, 4,680,402, Cl. 546-235.000.

Robin, Jacques A.: *See*—
Cousin, Jean-Claude; and Robin, Jacques A., 4,643,857, Cl. 264-46.600.
Cousin, Jean-Claude; and Robin, Jacques A., 4,707,977, Cl. 57-297.000.

Robin, Jean, to Rhone-Poulenc Specialites Chimiques. Process for preparing polyisocyanato/polyisocyanurates by catalytic cyclotrimerization of polyisocyanates. 4,675,401, 6-23-87, Cl. 544-193.000.

Robin, Jean, to Rhone-Poulenc Specialites Chimiques. Catalytic partial cyclotrimerization of polyisocyanates and product thereof. 4,697,014, 9-29-87, Cl. 544-193.000.

Robin, Philippe; Micheron, Francois; Petit, Patrick; and Broussoux, Dominique, to Thomson-CSF. Reinforced piezoelectric transducer and pressure sensor using such a transducer. 4,649,312, 3-10-87, Cl. 310-330.000.

Robine, Alain: *See*—
Saussine, Lucien; Robine, Alain; and Mimoun, Hubert, 4,659,829, Cl. 546-2.000.

Robine, Gerard: *See*—
Bucaille, Alain; and Robine, Gerard, 4,666,220, Cl. 312-198.000.

Robinette-Lehman, Cynthia, to Aspen Laboratories, Inc. Tourniquet cuff. 4,635,635, 1-13-87, Cl. 128-327.000.

Robings, Kenneth W., to Clairmont Camera, Inc. Tilting viewfinder and video door accessory for motion-picture camera. 4,705,374, 11-10-87, Cl. 354-225.000.

Robins, Bertrand G., to General Electric Company. Repair of a member having a projection. 4,657,171, 4-14-87, Cl. 228-119.000.

Robins, Ian; Ross, John F.; and Webb, Brian C., to EMI Limited. Gas sensor. 4,650,561, 3-17-87, Cl. 204-416.000.

Robins, Janis; and Wright, Charles D., to Minnesota Mining and Manufacturing Company. Fast curing epoxy resin compositions. 4,668,736, 5-26-87, Cl. 525-65.000.

Robins, Janis; and Wright, Charles D., to Minnesota Mining and Manufacturing Company. Method for adhering surfaces using fast curing epoxy resin compositions. 4,704,331, 11-3-87, Cl. 428-414.000.

Robins, Roland K., to Viratek, Inc. Treatment of malignant tumors with 2-(β-D-ribofuranosylthiazole-4-carboxamide related compounds. 4,680,285, 7-14-87, Cl. 514-23.000.

Robinson, Alan: *See*—
Outwater, Chris; and Robinson, Alan, 4,662,730, Cl. 351-212.000.

Robinson, Alan J. Child proof closure device for doors. 4,715,629, 12-29-87, Cl. 292-256.000.

Robinson, Alan S.; and Fuller, Mark W., to Wet Enterprises, Inc. Underwater lighting system. 4,661,893, 4-28-87, Cl. 362-267.000.

Robinson, Alan S.: *See*—
Fuller, Mark W.; and Robinson, Alan S., 4,715,136, Cl. 40-406.000.

Robinson, Albert H., Jr.; and Egee, Walter W., deceased (by Egee, Elizabeth J., executrix), to Campbell Soup Company. Method for heat treating food. 4,636,395, 1-13-87, Cl. 426-511.000.

Robinson, Anthony, to E.S.G. Controls, Ltd. Boiler cycling controller. 4,637,349, 1-20-87, Cl. 122-448.00B.

Robinson, Anthony H. J.: *See*—
Kuhfus, Gerd; Walker, Charles R. S.; and Robinson, Anthony H. J., 4,636,591, Cl. 381-159.000.

Robinson, Anthony J., to Rieter Scragg Limited. Creel and method of operation thereof. 4,666,098, 5-19-87, Cl. 242-131.000.

Robinson, Anthony L.: *See*—
Wake, David E.; Robinson, Anthony L.; and Croset, Michel R., 4,708,335, Cl. 271-187.000.

Robinson, Ben A., Jr.: *See*—
Robinson, Charles R.; Robinson, Ben A., Jr.; and Robinson, Tamara, 4,675,683, Cl. 342-386.000.

Robinson, Bobby L.: *See*—
Hubbert, David W.; and Robinson, Bobby L., 4,674,170, Cl. 29-458.000.

Robinson Brothers Limited: *See*—
Rock, Kenneth; and Smith, Geoffrey, 4,673,748, Cl. 548-237.000.
Stevenson, Arthur, 4,695,609, Cl. 523-352.000.

Robinson, C. Michael, to KLA Instruments Corporation. Apparatus for storing and retrieving data in predetermined multi-bit quantities containing fewer bits of data than word length quantities. 4,663,732, 5-5-87, Cl. 364-900.000.

Robinson, C. Paul; Rockwood, Stephen D.; Jensen, Reed J.; Lyman, John L.; and Aldridge, Jack P., III, to United States of America, Energy. Laser isotope separation by multiple photon absorption. 4,655,890, 4-7-87, Cl. 204-157.220.

Robinson, C. Paul; Jensen, Reed J.; Cotter, Theodore P.; Greiner, Norman R.; and Boyer, Keith, to United States of America, Energy. Photochemical isotope separation. 4,661,221, 4-28-87, Cl. 204-157.220.

Robinson, Charles R.; Robinson, Ben A., Jr.; and Robinson, Tamara. Spent hunting arrow locating means. 4,675,683, 6-23-87, Cl. 342-386.000.

Robinson, Clifford J., to International Business Machines Corporation. Vertical magnetic recording media with multilayered magnetic film structure. 4,677,032, 6-30-87, Cl. 428-611.000.

Robinson, Curtiss W. Low compensating accumulator and bungee. 4,667,473, 5-26-87, Cl. 60-415.000.

Robinson, Curtiss W.: *See*—
Clay, C. William; and Robinson, Curtiss W., 4,667,472, Cl. 60-387.000.

Robinson, Dale L.: *See*—
Nelson, John A.; and Robinson, Dale L., 4,661,886, Cl. 361-399.000.

Robinson, Danny C., to Leggett & Platt, Incorporated. Sofa-sleeper having a snap-in bottom-loading sofa bed mechanism. 4,700,414, 10-20-87, Cl. 5-13.000.

Robinson, David E., to Commonwealth of Australia, The. Real time ultrasonic scanning method and apparatus. 4,693,120, 9-15-87, Cl. 73-618.000.

Robinson, David M.: *See*—
Wells, William D.; Robinson, David M.; DeLuca, Richard M.; and Burwen, Eric D., 4,698,509, Cl. 250-492.200.

Robinson, David W.: *See*—
Sanders, Ward L.; and Robinson, David W., 4,678,171, Cl. 269-325.000.

Robinson, Donald L.; and Ojala, William. Fresnell lens and filter for use with computers and the like. 4,712,870, 12-15-87, Cl. 350-243.000.

Robinson, Donavan E.; and Robinson, Skeffington I. Automatic animal feeder. 4,671,210, 6-9-87, Cl. 119-51.120.

Robinson, Douglas B.: *See*—
Fry, John A.; and Robinson, Douglas B., 4,637,603, Cl. 272-1.00R.

Robinson, E. Howell, Jr., to Chase Instruments Corporation. Test tube making and end coating. 4,705,551, 11-10-87, Cl. 65-60.100.

Robinson, Earl F.; and Bare, Rex O., to Andover Medical Incorporated. Electrical connector for a disposable electrode. 4,702,256, 10-27-87, Cl. 128-639.000.

Robinson, Edward A.: *See*—
Raque, Glen F.; and Robinson, Edward A., 4,678,015, Cl. 141-131.000.
Raque, Glen F.; and Robinson, Edward A., 4,699,297, Cl. 222-148.000.

Robinson, Edward N., to Danform Agencies, Inc. Garden bed frame. 4,651,466, 3-24-87, Cl. 47-19.000.

Robinson, Eugene A.; Sharpe, Claude A.; Iseli, James W.; Valella, Julio E.; and Liu, Kuen-Yu, to Texas Instruments Incorporated. Microcomputer based keyboard command entry concept for VHF communication and navigation systems. 4,651,282, 3-17-87, Cl. 364-443.000.

Robinson, Gerald R.: *See*—
Reiber, Thomas L.; and Robinson, Gerald R., 4,671,421, Cl. 215-228.000.

Robinson, Glen P., Jr.: *See*—
Blackshaw, Andrew L.; and Robinson, Glen P., Jr., 4,646,538, Cl. 62-238.700.

Robinson, Gordon D.; and Smith, Brian D. V., to Cirrus Computers Ltd.; and United Kingdom and British Telecommunications. Visual display logic simulation system. 4,675,832, 6-23-87, Cl. 364-521.000.

Robinson, Hugh A., to Andrew Wilson Company. Sliding file support for a dual access filing system. 4,673,091, 6-16-87, Cl. 211-184.000.

Robinson Industries, Inc.: *See*—
Banyay, H. Daniel, 4,708,593, Cl. 416-183.000.

Robinson Industries, Limited: *See*—
Haller, Walter, 4,659,047, Cl. 248-274.000.

Robinson, J. Stephen: *See*—
Schneller, Joseph W.; Kossuth, Donald A.; and Robinson, J. Stephen, 4,646,498, Cl. 52-309.120.

Robinson, James L., to Fulflo Specialties Co., Inc., The. Motor operated valve assembly. 4,705,063, 11-10-87, Cl. 137-315.000.

Robinson, James T.: *See*—
Ciampa, John A.; and Robinson, James T., 4,635,136, Cl. 358-342.000.

Robinson, Jeffrey I., to General DataComm, Inc. Continuous time domain analog-digital converter. 4,667,180, 5-19-87, Cl. 340-347.0AD.

Robinson, Jeffrey I., to General DataComm, Inc. Bidirectional transconductance amplifier. 4,689,607, 8-25-87, Cl. 340-347.0AD.

Robinson, Jeffrey I., to General DataComm, Inc. Analog-digital converter. 4,691,190, 9-1-87, Cl. 340-347.0AD.

Robinson, Jerry W. System for rotating a drive mechanism for power generation. 4,691,115, 9-1-87, Cl. 290-1.00R.

Robinson, Joe M.: *See*—
McEachern, Richard D.; Jordan, Willie W.; Gebheim, Gerald C.; and Robinson, Joe M., 4,714,196, Cl. 239-62.000.

Robinson, John C.: *See*—
Lavendel, Henry W.; and Robinson, John C., 4,689,104, Cl. 156-325.000.
Lavendel, Henry W.; and Robinson, John C., 4,692,388, Cl. 428-621.000.

Robinson, John S.; Ahlswede, Thomas E.; and Cornelius, Charles A., to R. R. Donnelley & Sons Company. Printing systems for typesetter emulation. 4,679,153, 7-7-87, Cl. 364-523.000.

Robinson, John T., to International Business Machines Corporation. General locking/synchronization facility with canonical states and mapping of processors. 4,709,326, 11-24-87, Cl. 364-200.000.

Robinson, John W. Method and apparatus for controlling dryers for wood products, fabrics, paper and pulp. 4,701,857, 10-20-87, Cl. 364-477.000.

Robinson, John W.: *See*—
Garces, Juan M.; and Robinson, John W., 4,657,890, Cl. 502-340.000.
Kaganowicz, Grzegorz; Enstrom, Ronald E.; and Robinson, John W., 4,705,760, Cl. 437-234.000.

Robinson, Jon L., to TCI, Inc. Blender rotor improvements. 4,660,987, 4-28-87, Cl. 366-67.000.

Robinson, Kelly S.: *See*—
Steele, Bruce B.; Rushing, Allen J.; and Robinson, Kelly S., 4,714,046, Cl. 118-657.000.

Robinson, Larry D.: *See*—
Anderson, William J.; Anderson, Wayne R.; and Robinson, Larry D., 4,641,571, Cl. 98-72.000.

Robinson, Leonard W., to Fibre Converters, Inc. Thermoformable composite articles. 4,695,501, 9-22-87, Cl. 428-159.000.

Robinson, Mary A., to Westinghouse Electric Corp. Shock absorbing support pad system. 4,646,617, 3-3-87, Cl. 89-1.810.

Robinson, McDonald; Behee, Ronald D.; deBoer, Wiebe B.; and Johnson, Wayne L., to Epsilon Limited Partnership. Method and apparatus for substrate heating in an axially symmetric epitaxial deposition apparatus. 4,654,509, 3-31-87, Cl. 219-405.000.

Robinson, Melvin E. R.: *See*—
Butcher, Peter E.; Dick, David A.; Nicholas, James W.; Robinson, Melvin E. R.; and Staines, Glyn, 4,697,718, Cl. 220-82.00R.

Robinson, Michael: *See*—
Bonsack, James P.; and Robinson, Michael, 4,652,434, Cl. 423-155.000.

Robinson, Michael B.; and Lacy, Lewis L., to United States of America, National Aeronautics and Space Administration. Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity. 4,677,642, 6-30-87, Cl. 373-10.000.

Robinson, Morgan E.: *See*—
Porcher, Thomas C.; and Robinson, Morgan E., 4,639,891, Cl. 364-900.000.
Porcher, Thomas C.; Robinson, Morgan E.; and Hughes, David B., 4,667,307, Cl. 364-900.000.

Robinson, Morton, to Hughes Aircraft Company. Reactive atmosphere processing of heavy-metal fluoride glasses. 4,659,352, 4-21-87, Cl. 65-2.000.

Robinson, Nelson M.: *See*—
Fadner, Thomas A.; Harenza, Edward R.; Hycner, Stanley H.; and Robinson, Nelson M., 4,690,055, Cl. 101-451.000.

Robinson, Paul H.: *See—*
Goodman, Alvin M.; Goodman, Lawrence A.; Russell, John P.; and Robinson, Paul H., 4,684,413, Cl. 437-17.000.
Looney, Gary W.; and Robinson, Paul H., 4,661,199, Cl. 156-612.000.

Robinson, Peter V.: *See—*
Lin, Ju-Chun; Abbey, Kirk J.; Craun, Gary P.; and Robinson, Peter V., 4,683,271, Cl. 525-403.000.

Robinson, Randolph H.: *See—*
Rendulic, Francis J.; Robinson, Randolph H.; and Maccini, John A., 4,702,994, Cl. 430-306.000.

Robinson, Raymond S.: *See—*
Kaufman, Harold R.; and Robinson, Raymond S., 4,684,848, Cl. 315-111.810.

Robinson, Robert S.: *See—*
Pierce, Claudia C.; Robinson, Robert S.; and Kneller, James F., 4,711,726, Cl. 210-701.000.

Robinson, Ronald D.: *See—*
Wilmore, Scott H.; and Robinson, Ronald D., 4,710,991, Cl. 5-435.000.

Robinson, Ronald J. Automotive device for inhibiting engine ignition. 4,645,939, 2-24-87, Cl. 307-10.0AT.

Robinson, Ronald L.; and Honeycutt, Fred L., Jr., to United Technologies Corporation. Louvered seal flap edge stiffener. 4,690,330, 9-1-87, Cl. 239-265.390.

Robinson, S. M. Boris: *See—*
Johnson, Carl A.; and Robinson, S. M. Boris, 4,648,270, Cl. 73-202.000.

Robinson, Skeffington I.: *See—*
Robinson, Donavan E.; and Robinson, Skeffington I., 4,671,210, Cl. 119-51.120.

Robinson, Tamara: *See—*
Robinson, Charles R.; Robinson, Ben A., Jr.; and Robinson, Tamara, 4,675,683, Cl. 342-386.000.

Robinson, Thomas C.: *See—*
Farrar, David J.; and Robinson, Thomas C., 4,662,358, Cl. 128-1.00D.

Robinson, Thomas P., to Quest Medical, Inc. Adapter for intravenous delivery set. 4,648,873, 3-10-87, Cl. 604-411.000.

Robinson, Tibor: *See—*
Heller, Jurg; Kissling, Bruno; Robinson, Tibor; and Valenti, Salvatore, 4,645,511, Cl. 8-549.000.

Robinson, Tyler C.; Sula, Wayne J.; Larson, Roger C.; and Wallace, William J., to Hazeltine Corporation. Flotation bag assembly. 4,675,686, 6-23-87, Cl. 343-709.000.

Robinson, William C.: *See—*
Mahapatra, Amaresh; McMahon, Donald H.; Robinson, William C.; and Sanford, Norman A., 4,695,121, Cl. 350-96.120.

Robinson, William M.: *See—*
Noel, Raymond; Robinson, William M.; Cherian, Gabe; Clifford, Thomas H.; Carlomagno, William D.; Deasy, William M.; Grassauer, Willie K.; Haygood, David K.; Sherlock, H. Paul; and White, Harry E., 4,712,721, Cl. 228-56.300.

Robinton, Michael A., to Robinton Products, Inc. Telephone interrupter. 4,640,988, 2-3-87, Cl. 379-90.000.

Robinton, Michael A., to Robinton Products, Inc. Apparatus and method for producing a signal-to-noise ratio figure of merit for digitally encoded-data. 4,688,234, 8-18-87, Cl. 375-10.000.

Robinton, Michael A., to Robinton Products, Inc. Adaptive communication network and method. 4,692,761, 9-8-87, Cl. 340-825.010.

Robinton, Michael A.; and Starkie, Alan H., to Robinton Products, Inc. Digital phase selection system for signal multipliers. 4,709,375, 11-24-87, Cl. 375-27.000.

Robinton Products, Inc.: *See—*
Robinton, Michael A., 4,640,988, Cl. 379-90.000.
Robinton, Michael A., 4,688,234, Cl. 375-10.000.
Robinton, Michael A., 4,692,761, Cl. 340-825.010.
Robinton, Michael A.; and Starkie, Alan H., 4,709,375, Cl. 375-27.000.

Robishaw, Alces P., to Robishaw Engineering, Inc. Method and apparatus for constructing elevated structures. 4,647,257, 3-3-87, Cl. 405-204.000.

Robishaw, Alces P. Method and apparatus for constructing elevated structures. 4,687,379, 8-18-87, Cl. 405-195.000.

Robishaw, Alces P.; and Robishaw, Paul A. Locks for construction components. 4,695,184, 9-22-87, Cl. 403-410.000.

Robishaw Engineering, Inc.: *See—*
Robishaw, Alces P., 4,647,257, Cl. 405-204.000.

Robishaw, Paul A.: *See—*
Robishaw, Alces P.; and Robishaw, Paul A., 4,695,184, Cl. 403-410.000.

Robison, Arthur E. Saw chain sharpener. 4,683,780, 8-4-87, Cl. 76-40.000.

Robison, Clark E.: *See—*
Schwab, Carl M., Jr.; Robison, Clark E.; and Renfroe, James B., Jr., 4,646,828, Cl. 166-117.500.

Robison, Robert L.: *See—*
Buddenbaum, Harry C.; and Robison, Robert L., 4,684,643, Cl. 514-204.000.

Robitaille, Michel: *See—*
Belanger, Andre; and Robitaille, Michel, 4,652,506, Cl. 429-192.000.

Robl, Gerhard: *See—*
Buchschmid, Emil; Frenznick, Anton; Neidhard, Klaus; and Robl, Gerhard, 4,652,818, Cl. 324-174.000.

Roblin, Jean-Paul: *See—*
Rodriguez, Francis; and Roblin, Jean-Paul, 4,679,824, Cl. 285-27.000.

Roblin, Pierre: *See—*
Picard, Didier; and Roblin, Pierre, 4,708,251, Cl. 212-182.000.

Roblin, William J., III: *See—*
Scheflow, Oliver W.; Roblin, William J., III; Kirsch, Richard C.; and Wunder, William G., 4,685,364, Cl. 83-68.000.

Robohand, Inc: *See—*
Borcea, Nicky; Ionescu, Alexandru D.; and Barbulescu, Mihai S., 4,667,998, Cl. 294-88.000.

Robol, Ronald B.: *See—*
Weir, Donald H.; Frederick, Stanley H.; Hotaling, Robert A.; and Robol, Ronald B., 4,661,247, Cl. 210-97.000.
Weir, Donald H.; Frederick, Stanley H.; Hotaling, Robert A.; and Robol, Ronald B., 4,705,629, Cl. 210-340.000.

Robolin, Claude. Data processing work station. 4,646,655, 3-3-87, Cl. 108-92.000.

Robopac s.r.l.: *See—*
Forni, Angelo; and Francesconi, Piero, 4,671,043, Cl. 53-399.000.

Robortaccio, Rocco J.: *See—*
Cavaliere, Joseph R.; Chang, Albert Y.; and Robortaccio, Rocco J., 4,698,800, Cl. 370-24.000.

Roboserve Limited: *See—*
Cox, Harold S., 4,696,950, Cl. 521-57.000.

Robot Defense Systems, Inc.: *See—*
Mahoney, Thomas J.; and Lang, Michael, 4,698,498, Cl. 250-234.000.

Robot Research, Inc.: *See—*
Stahler, John P., 4,651,195, Cl. 358-14.000.

Robotest Oy: *See—*
Kuusi, Juhani, 4,696,023, Cl. 378-46.000.
Kuusi, Juhani, 4,698,832, Cl. 378-46.000.

Robotic Systems, Inc.: *See—*
Rosendale, John V., 4,641,757, Cl. 212-205.000.

Robotic Vision Systems, Inc.: *See—*
Ross, Joseph; and Schmidt, Richard, 4,634,278, Cl. 356-376.000.
Ross, Joseph; and Schmidt, Richard, 4,634,279, Cl. 356-376.000.
Ross, Joseph; and Schmidt, Richard, 4,637,058, Cl. 382-48.000.
Ross, Joseph; and Schmidt, Richard, 4,648,717, Cl. 356-376.000.
Ross, Joseph; and Stern, Howard, 4,652,205, Cl. 414-786.000.
Schmidt, Richard, 4,640,620, Cl. 356-376.000.
Schmidt, Richard; Stern, Howard; Mauro, Alex; and Ross, Joseph, 4,682,894, Cl. 356-375.000.
Stern, Howard, 4,643,578, Cl. 356-376.000.
Stern, Howard, 4,652,749, Cl. 250-234.000.
Stern, Howard, 4,657,393, Cl. 356-376.000.
Stern, Howard, 4,689,480, Cl. 250-201.000.
Stern, Howard; and Mauro, Alex, 4,702,605, Cl. 356-375.000.
Stern, Howard; Mauro, Alex; and Lee, Jay, 4,709,858, Cl. 239-296.000.

Robotics, Inc.: *See—*
Geisel, Donald J.; Crotty, C. Alan; and Pilarski, Richard J., 4,699,575, Cl. 418-104.000.
Schroter, Damon C., 4,662,540, Cl. 222-55.000.

Robrahn, David: *See—*
McNeal, Joseph R.; and Robrahn, David, 4,653,124, Cl. 2-427.000.

Robrock, Anne A.: *See—*
Larson, Mikiel L.; Robrock, Anne A.; and Toy, Wing N., 4,646,287, Cl. 370-60.000.

Robroy Industries: *See—*
Ford, James H., 4,638,966, Cl. 248-62.000.

Robson, Charles H. Apparatus for the controlled dispensing of tablets from multiple containers. 4,643,313, 2-17-87, Cl. 206-533.000.

Robson, John H.: *See—*
Briggs, John R.; and Robson, John H., 4,667,045, Cl. 556-20.000.
Soo, Hwaili; and Robson, John H., 4,701,571, Cl. 568-867.000.

Robson, Michael J.: *See—*
Williams, John; and Robson, Michael J., 4,681,969, Cl. 558-407.000.

Robson, Richard E. G. Carburetor. 4,670,195, 6-2-87, Cl. 261-41.500.

Robusto, Paul F.: *See—*
Koda, Nobuo J.; Bleha, William P., Jr.; Giehll, Harry W.; Reinsch, Stephen J.; and Robusto, Paul F., 4,650,286, Cl. 350-331.00R.

Robvon Backing Ring Company: *See—*
von Ahrens, Roger W., 4,652,019, Cl. 285-22.000.

Roby, Gerard: *See—*
Sarton, Francois; and Roby, Gerard, 4,697,774, Cl. 248-221.400.

ROC-Tec, Inc.: *See—*
Lizenby, James R.; Lizenby, Kevin J.; and Barnard, L. James, 4,656,002, Cl. 419-10.000.

Roca, Abel. Wave generator for waterbeds. 4,639,959, 2-3-87, Cl. 5-451.000.

Roca, Antonio: *See—*
Nunez, Carlos; Roca, Antonio; and Espiell, Fernando, 4,654,079, Cl. 75-118.00R.

Roca, Yves; Rousset, Jacky; Bouchut, Pierre; Leblanc, Marie-Christine; and Baffreau, Daniel, to Coatex S.A.; and Total Compagnie Francaise des Petroles. Composition cimentaire hydraulique a prise retardee pour cimentation a hautes temperature et pression. 4,681,634, 7-21-87, Cl. 106-90.000.

Rocca, Jorge J.: *See—*
Collins, George J.; Rocca, Jorge J.; and Meyer, Jack D., 4,641,316, Cl. 372-74.000.

Roccaforte, Harry I., to Waldorf Corporation. Flip top dispenser box with non-linear perforations. 4,688,677, 8-25-87, Cl. 206-624.000.

Rocchi, Remo: *See*—
Conta, Renato; Rocchi, Remo; and Scardovi, Alessandro, 4,675,043, Cl. 65-160.000.

Rocco, Art; and Ripley, David R., to Neotech Industries, Inc. Tire pressure gauge. 4,704,901, 11-10-87, Cl. 73-146.800.

Rocco, Jean-Claude: *See*—
Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacquot, Claude; Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Jean-Claude; Sermet, Pierre; Zadworny, Francois; and Bourg, Francois, 4,638,216, Cl. 315-111.810.

Rocco, LeRoy E.: *See*—
Light, Gerard M.; Rocco, LeRoy E.; and Clancey, Stephen M., 4,683,999, Cl. 192-58.00B.

Roccucci, Silvio, to Selenia Spazio. Transistor power inverter with synchronizing circuit. 4,700,147, 10-13-87, Cl. 331-47.000.

Roccucci, Silvio, to Selenia Spazio. PWM inverter with trapezoidal output. 4,716,509, 12-29-87, Cl. 363-26.000.

Roch, Josef; Muller, Erich; Narr, Berthold; Nickl, Josef; Haarmann, Walter; and Weisenberger, Johannes M., to Karl Thomae GmbH. 2-(Perhydro-1,4-diazino)-pyrimido(5,4-D)-pyrimidines, pharmaceutical compositions and use. 4,690,923, 9-1-87, Cl. 514-222.000.

Roch, Josef; Heckel, Armin; Nickl, Josef; Muller, Erich; Narr, Berthold; Zimmermann, Rainer; and Weisenberger, Johannes, to Dr. Karl Thomae GmbH. 8-alkylthio-2-piperazino-pyrimido[5,4-d]-pyrimidines. 4,714,698, 12-22-87, Cl. 514-212.000.

Rocha, Gerald F.: *See*—
Provost, George A.; Trask, William F.; and Rocha, Gerald F., 4,662,037, Cl. 24-447.000.

Rochard, Jean-Claude, and Kopp, Norbert, to Salomon S.A. Manipulation lever for closing and latching of a rear-entry ski boot. 4,644,670, 2-24-87, Cl. 36-117.000.

Rochard, Michel; and Lafaye, Michel, to La Telemecanique Electrique. Electric safety switch. 4,695,684, 9-22-87, Cl. 200-43.070.

Rochas, Jean-Francois; Lapoulle, Bertrand; Leroy, Yves; Mamouni, Ahmed; and Van de Velde, Jean-Claude, to Institut Textile de France; and CNRS. Microwave radiometry method and device for measuring the temperature of a moving, textile material. 4,650,345, 3-17-87, Cl. 374-9.000.

Rochat, Alain C.: *See*—
Jost, Max; Iqbal, Abul; and Rochat, Alain C., 4,666,455, Cl. 8-506.000.
Pfenninger, Johannes; Iqbal, Abul; Rochat, Alain C.; and Wallquist, Olof, 4,659,775, Cl. 524-92.000.
Pfenninger, Johannes; Iqbal, Abul; and Rochat, Alain C., 4,681,971, Cl. 558-414.000.

Rochat, Pierre-Maurice: *See*—
Jimenez, Antonio; and Rochat, Pierre-Maurice, 4,646,665, Cl. 112-260.000.

Rochau, Erwin: *See*—
George, Ulf; Rochau, Erwin; Merk, Hans; and Behnke, Joachim, 4,661,612, Cl. 556-450.000.

Roche, Cyril J. Removable tray apparatus for a walker. 4,708,274, 11-24-87, Cl. 224-273.000.

Roche, Gregory A. Apparatus for, and methods of, depositing a substance on a substrate. 4,694,777, 9-22-87, Cl. 118-725.000.

Roche, John L.; and Tiers, George V. D., to Minnesota Mining and Manufacturing Company. Corrosion-resistant silver mirror. 4,645,714, 2-24-87, Cl. 428-458.000.

Roche, Joseph R.; and Alexander, Gabriel G., to Hydril Company. Diverter/bop system and method for a bottom supported offshore drilling rig. 4,646,844, 3-3-87, Cl. 166-379.000.

Roche, Joseph R.; and Lin, Shaw-Wen, to Hydril Company. Fatigue resistant coupling for tubular members. 4,708,513, 11-24-87, Cl. 403-361.000.

Roche, Michael F.: *See*—
Nelson, Paul A.; Bloom, Ira D.; and Roche, Michael F., 4,659,637, Cl. 429-104.000.

Roche, Michel, to Commissariat a l'Energie Atomique. Apparatus for irradiating material by an electron beam. 4,663,532, 5-5-87, Cl. 250-400.000.

Roche, Michel: *See*—
Ferrari, Alphonse; Roche, Michel; and Dard, Jean-Claude, 4,683,476, Cl. 346-29.000.

Roche, Peter; and Rank, Mathaeus, to BASF Aktiengesellschaft. Process for the preparation of cellular or noncellular plastics from at least two components which react with one another. 4,649,162, 3-10-87, Cl. 521-78.000.

Roche, Richard G.; and Blades, Russell, to Ontario, Inc. Control apparatus for ice rink refrigeration equipment. 4,700,548, 10-20-87, Cl. 62-139.000.

Roche, Thomas A.; and Edminster, Robert E., to Motorola, Inc. Sealed flexible printed wiring feedthrough apparatus. 4,636,581, 1-13-87, Cl. 174-152.00R.

Roche, Thomas J., to Cordis Corporation. Multi-material insulation sheath for pacer lead. 4,643,202, 2-17-87, Cl. 128-786.000.

Roche, William J., to GTE Products Corporation. Rapid-start fluorescent lamp integrated circuit breaker structure and manufacture. 4,659,966, 4-21-87, Cl. 315-73.000.

Roche, William J., to GTE Products Corporation. Lamp with lead wire thermal switch. 4,709,187, 11-24-87, Cl. 315-74.000.

Roche, William J.: *See*—
Citino, Richard J.; Bessone, Carlo S.; and Roche, William J., 4,661,745, Cl. 315-106.000.

Rochefort, Malcolm P.; and Wood, Richard, to Imperial Chemical Industries PLC. Method of producing shaped articles having a simulated marble appearance. 4,680,155, 7-14-87, Cl. 264-73.000.

Rocheleau, Richard E.: *See*—
Jackson, Scott C.; and Rocheleau, Richard E., 4,654,226, Cl. 427-54.100.

Rochelle, Robert E.: *See*—
Bender, Martin P.; and Rochelle, Robert E., 4,651,934, Cl. 241-36.000.

Rochelt, Gunter: *See*—
Marker, Hannes; and Rochelt, Gunter, 4,635,579, Cl. 114-97.000.

Rocher, Jean-Philippe; Quenisset, Jean-Michel; Pailler, Rene; and Naslain, Roger, to Messier Fonderie d'Arudy. Process for making composite materials consisting of a first reinforcing component combined with a second component consisting of a light alloy and products obtained by this process. 4,659,593, 4-21-87, Cl. 427-310.000.

Rochester, Charles R., Jr., to Unisys Corporation. EMI/RFI shielding assembly for cathode ray tube monitors. 4,710,591, 12-1-87, Cl. 174-35.0GC.

Rochester Gas & Electric Corp.: *See*—
Saporito, Michael J.; Deleo, Salvatore J.; Lewis, Paul A.; Curtis, Albert E., III; D'Arienzo, Joseph; and Roller, David P., Jr., 4,663,727, Cl. 364-551.000.

Rochester Gauges, Inc.: *See*—
Hrncir, Robert E.; and Ross, Herbert G., Jr., 4,635,480, Cl. 73-322.500.

Rochester Institute of Technology: *See*—
Ciampa, John A.; and Robinson, James T., 4,635,136, Cl. 358-342.000.

Rochez Bros. Inc.: *See*—
Hicks, Charles D., 4,662,256, Cl. 83-124.000.

Rochte, Randall S. Segmented geometric structure. 4,637,941, 1-20-87, Cl. 428-8.000.

Rock, Dan; Roth, Mark; and Sagan, Stephen F. Broadband spectrometer with fiber optic reformattor. 4,678,332, 7-7-87, Cl. 356-328.000.

Rock Dock, Inc.: *See*—
Thompson, Larry L., 4,715,307, Cl. 114-65.00A.

Rock, Erich; and Brustle, Klaus, to Julius Blum Gesellschaft m.b.H. Spring-biased furniture door hinge providing increased opening angle. 4,641,394, 2-10-87, Cl. 16-302.000.

Rock, Erich; and Brustle, Klaus, to Julius Blum Gesellschaft m.b.H. Furniture hinge with axle members mounting hinge links to hinge casing and retained in holding flanges. 4,641,396, 2-10-87, Cl. 16-370.000.

Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, to Julius Blum Gesellschaft M.B.H. Hinge. 4,654,932, 4-7-87, Cl. 16-382.000.

Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, to Julius Blum Gesellschaft m.b.H. Furniture hinge having an intermediate mounting member and a separate disengaging mechanism. 4,680,830, 7-21-87, Cl. 16-241.000.

Rock, Erich; and Rupprechter, Helmut, to Julius Blum Gesellschaft m.b.H. Marking gauge for use in mounting hinges. 4,686,769, 8-18-87, Cl. 33-197.000.

Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, to Julius Blum Gesellschaft m.b.H. Furniture hinge having a resilient catch and spacer mechanism. 4,691,408, 9-8-87, Cl. 16-241.000.

Rock, Erich; and Schwarzler, Felix, to Julius Blum Gesellschaft m.b.H. Extension pull-out guide assembly for drawers. 4,692,035, 9-8-87, Cl. 384-18.000.

Rock, Erich; and Hollenstein, Helmut, to Julius Blum Gesellschaft m.b.H. Furniture connector. 4,697,946, 10-6-87, Cl. 403-9.000.

Rock, Erich; and Hollenstein, Helmut, to Julius Blum Gesellschaft m.b.H. Drawer including side walls having front ends covered by cover members. 4,700,994, 10-20-87, Cl. 312-330.00R.

Rock, Erich; and Schwarzler, Felix, to Julius Blum Gesellschaft mbH. Household furniture drawer including adjustable partitioning structure. 4,703,982, 11-3-87, Cl. 312-330.00R.

Rock, Erich; and Hollenstein, Helmut, to Julius Blum Gesellschaft m.b.H. Mounting device for front members of drawers. 4,705,328, 11-10-87, Cl. 312-330.00R.

Rock, Eugene F.: *See*—
Young, Ronald L.; Rock, Eugene F.; and Brandt, David E., 4,671,572, Cl. 297-349.000.

Rock, Henry L. Alcohol outdoor portable stove and accessories. 4,708,122, 11-24-87, Cl. 126-43.000.

Rock, John A.; and Giles, Harold F., Jr., to General Electric Company. Polyetherimide-polyamide blends. 4,657,987, 4-14-87, Cl. 525-432.000.

Rock, John A.; Durfee, Norman E., Jr.; and Johnson, Robert O., to General Electric Company. Impact modified polyetherimide-polycarbonate blends. 4,673,708, 6-16-87, Cl. 525-66.000.

Rock, Kenneth; and Smith, Geoffrey, to Robinson Brothers Limited. Process for preparing 2-oxazolines utilizing stannous salts of carboxylic acids. 4,673,748, 6-16-87, Cl. 548-237.000.

Rock, Robert G., to United States of America, Navy. Velocity discrimination radar. 4,697,186, 9-29-87, Cl. 342-189.000.

Rock-Tenn Company: *See*—
Wischusen, Henry, III, 4,651,919, Cl. 229-45.00R.
Wischusen, Henry, III, and Fletcher, Richard J., 4,676,430, Cl. 229-140.000.

Rockar, James A., to PPG Industries, Inc. Rafter with internal drainage feature and sloped glazing system incorporating same. 4,680,905, 7-21-87, Cl. 52-200.000.

Rockar, James A.; and Ignatius, James E., to PPG Industries, Inc. Sloped glazing system. 4,683,693, 8-4-87, Cl. 52-198.000.

Rockaway Corporation: *See*—
Varga, LeRoy M.; and Yermal, Michael F., 4,640,321, Cl. 140-93.00C.

Rockefeller University, The: *See*—
Cerami, Anthony, 4,665,192, Cl. 548-336.000.
Cerami, Anthony; Pongor, Sandor; and Brownlee, Michael, 4,705,845, Cl. 530-305.000.
Fleisher, Martin; Bradlow, H. Leon; and Schwartz, Morton K., 4,695,471, Cl. 436-64.000.
Kappas, Attallah; and Drummond, George S., 4,657,902, Cl. 514-185.000.
Kappas, Attallah; and Drummond, George, 4,684,637, Cl. 514-185.000.
Kappas, Attallah; and Drummond, George S., 4,692,440, Cl. 514-185.000.
Rideout, Darryl; Kappas, Attallah; and Drummond, George S., 4,668,670, Cl. 514-185.000.
Rideout, Darryl; Kappas, Attallah; and Drummond, George S., 4,692,439, Cl. 514-185.000.
Rideout, Darryl; Kappas, Attallah; and Drummond, George S., 4,699,903, Cl. 514-185.000.
Tuomanen, Elaine, 4,661,345, Cl. 424-85.000.
Van Eldik, Linda J.; Watterson, D. Martin; Erickson, Bruce W., and Fok, Kam-Fook, 4,716,150, Cl. 514-14.000.
Rockenfeller, Gottfried; Rockenfeller, Wolfgang; and Kunze, Friedheim, to Rockenfeller KG Befestigungselemente. Clamping device for a traction member, particularly for a rope, cable belt, cord or the like. 4,706,345, 11-17-87, Cl. 24-135.00L.
Rockenfeller KG Befestigungselemente: *See*—
Rockenfeller, Gottfried; Rockenfeller, Wolfgang; and Kunze, Friedheim, 4,706,345, Cl. 24-135.00L.
Rockenfeller, Wolfgang: *See*—
Rockenfeller, Gottfried; Rockenfeller, Wolfgang; and Kunze, Friedheim, 4,706,345, Cl. 24-135.00L.
Rockenschaub, Walter; and Kepplinger, Werner, to Voest-Alpine Aktiengesellschaft. Metallurgical plant for producing a mixed gas. 4,690,387, 9-1-87, Cl. 266-144.000.
Rockerath, John L., to Figgie International Inc. Ball winding apparatus. 4,666,094, 5-19-87, Cl. 242-7.020.
Rockett, Leonard R., Jr., to International Business Machines Corporation. Fast writing circuit for a soft error protected storage cell. 4,638,463, 1-20-87, Cl. 365-205.000.
Rockett, Paul D.: *See*—
Bird, Charles R.; and Rockett, Paul D., 4,685,119, Cl. 378-130.000.
Rockey, Arthur G. Medical sleeve. 4,641,653, 2-10-87, Cl. 128-344.000.
Rockford Acromatic Products Co.: *See*—
Olson, Dean A., II, 4,693,698, Cl. 464-111.000.
Rockinger Spezialfabrik fur Anhangerkupplungen GmbH & Co.: *See*—
Breu, Johann, 4,715,611, Cl. 280-504.000.
Rockley, Mark G., to Microlytics, Inc. Process and apparatus for analyzing cuttings from oil and gas wells. 4,699,002, 10-13-87, Cl. 73-153.000.
Rocks, James K.: *See*—
Magenheim, Bertram; and Rocks, James K., 4,688,185, Cl. 364-563.000.
Rockwell, Gary L., to Diversified Products Corporation. Wall mounted exercise unit. 4,634,127, 1-6-87, Cl. 272-134.000.
Rockwell, Gary L., to Diversified Products Corporation. Multiple exercise device. 4,691,918, 9-8-87, Cl. 272-134.000.
Rockwell, Gary L., to Diversified Products Corp. Cable-operated exerciser. 4,697,809, 10-6-87, Cl. 272-118.000.
Rockwell-Golde G.m.b.H: *See*—
Grimm, Rainer; Bohm, Horst; and Schafer, Peter, 4,671,565, Cl. 296-216.000.
Rockwell Golde GmbH: *See*—
Kollner, Harald; and Uhlig, Georg, 4,700,508, Cl. 49-352.000.
Roos, Rudolf; Schlapp, Albert; and Federmann, Dieter, 4,707,022, Cl. 296-222.000.
Rockwell, H. Theodore: *See*—
Rockwell, Theodore H., 4,675,913, Cl. 2-161.00R.
Rockwell International Corporation: *See*—
Arnold, Wesley C., 4,662,803, Cl. 408-224.000.
Bevilaqua, Paul M.; and Dehart, John H., 4,645,140, Cl. 244-12.100.
Bhowmik, Anup; and McMullin, Wayne A., 4,698,815, Cl. 372-2.000.
Blake, John K.; and Nelson, Blaine J., 4,635,277, Cl. 375-20.000.
Bryant, Donald L., 4,648,631, Cl. 285-177.000.
Buddenbohm, Harold W., 4,652,209, Cl. 415-174.000.
Bullinga, Lothar H., 4,674,877, Cl. 356-300.000.
Burgess, J. Howard, 4,689,444, Cl. 174-128.00R.
Busby, W. Ray, 4,654,851, Cl. 371-27.000.
Cagle, George C.; and Clendening, Steven J., 4,648,088, Cl. 370-16.000.
Catterfeld, Fritz C.; and Kroy, Ralph E., 4,644,207, Cl. 310-126.000.
Centala, John P.; and McElreath, Kenneth W., 4,642,774, Cl. 364-434.000.
Chen, Wei-Chung; and Jackson, Eugene D., 4,671,676, Cl. 384-100.000.
Cheung, Jeffrey T., 4,701,592, Cl. 219-121.0LT.
Chow, Pei-Ming D.; and Chi, Keh-Fei C., 4,639,142, Cl. 356-372.000.
Christe, Karl O., 4,683,129, Cl. 423-351.000.
Christe, Karl O., 4,695,296, Cl. 55-68.000.
Christe, Karl O., 4,711,680, Cl. 149-109.400.
Cross, Richard A., 4,675,618, Cl. 332-18.000.
Cross, Richard A., 4,694,263, Cl. 332-20.000.
Cummings, Robert J., 4,637,629, Cl. 280-801.000.
Cummings, Robert J., 4,664,341, Cl. 244-122.0AG.
Custode, Frank Z., 4,694,565, Cl. 437-34.000.
Custode, Frank Z., 4,697,328, Cl. 437-41.000.
Davis, Donald E.; and Ingham, Kenneth T., 4,660,435, Cl. 74-572.000.
Davis, James A., 4,668,498, Cl. 423-579.000.
Deasy, Richard E., 4,652,888, Cl. 343-791.000.
Del Mundo, Alfredo R.; and Klivans, Dean S., 4,659,268, Cl. 411-34.000.
Depa, Louis S., 4,702,166, Cl. 101-415.100.
Dorsman, Adrian K., 4,664,523, Cl. 356-350.000.
Dumas, Theodore A., 4,640,575, Cl. 350-96.200.
Dumas, Theodore A.; and Griffee, Leslie V., 4,682,181, Cl. 343-789.000.
Dunn, Charlton, 4,642,023, Cl. 415-53.00R.
Ek, Matthew C., 4,713,146, Cl. 159-4.200.
Elkins, Patricia C.; Chan, Yau-Wai D.; Chi, Keh-Fei C.; Reinhardt, Karen A.; Tang, Rebecca Y.; and Zwingman, Robert L., 4,676,867, Cl. 156-643.000.
Elliott, Kenneth R., 4,701,422, Cl. 437-8.000.
Ewbank, Mark D.; Feinberg, Jack; Khoshnevisan, Mohsen; and Yeh, Pochi A., 4,648,092, Cl. 372-18.000.
Fadner, Thomas A.; Harenza, Edward R.; Hycner, Stanley H.; and Robinson, Nelson M., 4,690,055, Cl. 101-451.000.
Fechalos, William A., 4,680,754, Cl. 370-85.000.
Feight, Robert A.; Jaqua, Vance W.; and Trom, Joseph, Jr., 4,682,779, Cl. 277-34.300.
Fenwick, James R., 4,653,938, Cl. 384-533.000.
Frankel, Milton B.; and Wilson, Edgar R., 4,683,085, Cl. 260-349.000.
Frankel, Milton B.; and Wilson, Edgar R., 4,683,086, Cl. 260-349.000.
Frankel, Milton B.; and Witucki, Edward F., 4,701,557, Cl. 564-110.000.
Gay, Richard L.; and Grantham, LeRoy F., 4,636,336, Cl. 252-632.000.
Gay, Richard L.; and Grantham, LeRoy F., 4,689,178, Cl. 252-626.000.
Gehrke, Thomas E., 4,675,614, Cl. 328-133.000.
Ghorbani, Ali; and Walker, Gary M., 4,702,712, Cl. 439-596.000.
Gillon, Willard A., Jr., 4,707,983, Cl. 60-258.000.
Gnanamuthu, Daniel S.; Moores, Ralph J.; Paton, Neil E.; and Vyhna, Richard F., 4,716,270, Cl. 219-121.0LM.
Grantham, LeRoy F., 4,668,435, Cl. 252-632.000.
Gray, Bruce E., 4,652,877, Cl. 340-870.020.
Guill, Dennis J.; McPherson, Larry D.; and Sizelan, John H., 4,694,267, Cl. 333-248.000.
Hall, James R., 4,694,729, Cl. 89-8.000.
Hallford, Ben R.; and Varian, Karl R., 4,713,620, Cl. 328-150.000.
Hallford, Ben R.; and McKenzie, Robert W., 4,713,730, Cl. 361-419.000.
Hamermesh, Charles L.; Dynes, Paul J.; and Hogenson, Peter A., 4,695,619, Cl. 528-73.000.
Hancock, Garry W.; and Love, Scott W., 4,676,275, Cl. 138-99.000.
Harper, Robert W., 4,667,138, Cl. 318-654.000.
Hayles, Donald G.; and Hepworth, Mark N., 4,663,618, Cl. 340-732.000.
Heimbigner, Gary L., 4,703,205, Cl. 307-450.000.
Heimbigner, Gary L., 4,707,808, Cl. 365-182.000.
Higgins, J. Aiden, 4,675,714, Cl. 357-24.000.
Honaker, Charles M., Jr., 4,700,084, Cl. 307-269.000.
Hunt, Eugene V.; Mosley, Charles G.; and Wheatley, Charles E., III, 4,684,903, Cl. 331-78.000.
Jaqua, Vance W.; and Jencek, Premysl, 4,638,947, Cl. 239-265.330.
Jencek, Premysl, 4,706,886, Cl. 239-265.330.
Johnsen, Kenneth D.; and Fletcher, Alan J., 4,640,434, Cl. 220-287.000.
Johnson, Charles A.; and Young, Jerald A., 4,686,639, Cl. 364-559.000.
Ketchpel, Richard D., 4,670,690, Cl. 313-505.000.
Kinoshita, Roy Y.; McCollum, Patrick E.; and Colan, Mark E., 4,705,962, Cl. 307-247.100.
Kinoshita, Roy Y., 4,709,160, Cl. 307-253.000.
Klinchuch, John F., 4,656,404, Cl. 318-558.000.
Kohl, Arthur L., 4,682,985, Cl. 48-197.00R.
Kroy, Ralph E.; and Catterfeld, Fritz C., 4,644,202, Cl. 310-58.000.
Lange, Fred F., 4,640,902, Cl. 501-97.000.
Lavely, Daniel, 4,693,342, Cl. 188-79.50K.
Loper, Roger K.; and Freeman, Richard A., 4,682,123, Cl. 332-16.00R.
Matejczyk, Daniel E., 4,710,223, Cl. 75-248.000.
Maus, Louis; Witucki, Edward F.; and Warren, Leslie F., 4,696,835, Cl. 427-121.000.
McCollum, Patrick E.; and Colan, Mark E., 4,665,355, Cl. 323-237.000.
McConkle, Charles C.; O'Neil, William F.; Meier, Michael J.; Fjeldsted, Thomas P.; Thomas, James L.; and Pfeifer, Arthur F., 4,670,653, Cl. 250-330.000.
McDonald, Mark A., 4,713,830, Cl. 375-109.000.
McElreath, Kenneth W., 4,645,141, Cl. 244-17.130.
McKiel, Frank A., Jr., 4,687,897, Cl. 219-56.210.
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Meisner, John W.; and Donelan, Lynn E., 4,644,210, Cl. 310-211.000.
Meng, Sen Y., 4,708,584, Cl. 415-53.00R.
Moldenhauer, James E., 4,688,628, Cl. 165-67.000.
Momot, Stanley; and Hannon, William G., 4,709,634, Cl. 101-248.000.

Moore, Larry V., 4,678,252, Cl. 439-62.000.
Morgan, David J., 4,654,664, Cl. 342-440.000.
Morgan, Peter E. D., 4,698,417, Cl. 528-395.000.
Mosier, Donald E., 4,660,036, Cl. 340-870.290.
Motamedi, Manouchehr E., 4,670,092, Cl. 156-643.000.
Murphy, Hugh J., 4,654,587, Cl. 324-103.00P.
Nelson, Blaine J., 4,712,223, Cl. 377-43.000.
Nelson, Blaine J., 4,712,224, Cl. 377-43.000.
Nelson, Blaine J., 4,712,225, Cl. 377-43.000.
Nelson, David A., 4,642,639, Cl. 342-47.000.
Nelson, David A., 4,651,158, Cl. 342-45.000.
Nugier, John G., 4,653,324, Cl. 73-460.000.
Nugier, John G., 4,674,163, Cl. 29-33.00T.
Nugier, John G., 4,711,011, Cl. 29-239.000.
Odor, Louis, 4,649,249, Cl. 219-10.730.
Oexmann, Henry E. R., 4,716,577, Cl. 375-15.000.
Olsen, David E., 4,709,141, Cl. 250-211.00R.
Penney, James W., 4,687,541, Cl. 156-643.000.
Ramos, Richard, 4,709,315, Cl. 363-21.000.
Raymond, Roger S., 4,635,461, Cl. 72-342.000.
Riley, Patrick J., 4,679,969, Cl. 408-87.000.
Robb, James R., 4,682,283, Cl. 364-200.000.
Rosman, Irwin E., 4,639,189, Cl. 415-115.000.
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Rozema, John G.; and Thompson, Kenneth A., 4,696,016, Cl. 375-20.000.
Schroeder, Paul K., 4,671,106, Cl. 73-117.300.
Schuler, Frederick T.; and Flores, Randolph, 4,707,225, Cl. 204-9.000.
Scribano, Gino A.; Fadner, Thomas A.; and Goldberg, Ira B., 4,658,207, Cl. 324-61.00P.
Sheem, Sang K., 4,639,078, Cl. 350-96.210.
Sheem, Sang K., 4,641,914, Cl. 350-96.150.
Sheng, Neng-Haung; Chang, Mau-Cnung F.; and Lee, Chien-Ping, 4,670,090, Cl. 156-653.000.
Smith, Dale K. Donich, Thomas G.; Dickerson, Bobby V.; and Leader, Raymond E., 4,685,149, Cl. 455-56.000.
Soclof, Sidney I., 4,683,399, Cl. 313-537.000.
Solomonides, Byron C., 4,673,147, Cl. 244-122.00A.
Southwell, William H., 4,666,250, Cl. 350-166.000.
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Spence, John R., 4,685,085, Cl. 365-190.000.
Spence, John R., 4,686,652, Cl. 365-230.000.
Spence, John R., 4,706,220, Cl. 365-203.000.
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Sutherland, Ray, 4,663,970, Cl. 73-273.000.
Sutton, Robert F.; and Kirkham, Kathleen E., 4,687,556, Cl. 204-29.000.
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Tam, Yan S., 4,664,487, Cl. 350-486.000.
Thompson, William J., 4,647,877, Cl. 333-22.00R.
Tilly, Peter E., 4,716,374, Cl. 328-169.000.
Tracy, John M.; Yeh, Pochi A.; and Khoshnevisan, Mohsen, 4,640,618, Cl. 356-345.000.
Vescial, Frederick, 4,676,643, Cl. 356-350.000.
Vowell, Kennison L., 4,707,323, Cl. 376-203.000.
Wagner, William R., 4,644,745, Cl. 60-258.000.
Wagner, William R.; and Gunn, Stanley V., 4,658,592, Cl. 60-689.000.
Wagner, William R., 4,682,471, Cl. 60-649.000.
Wagner, William R., 4,682,933, Cl. 415-172.00A.
Wagner, William R., 4,707,981, Cl. 60-242.000.
Wagner, William R., 4,707,982, Cl. 60-258.000.
Waite, Thomas R., 4,669,088, Cl. 372-95.000.
Walker, John A.; Witucki, Edward F.; and Warren, Leslie F., 4,697,001, Cl. 528-423.000.
Warren, Leslie F., 4,666,571, Cl. 204-59.00R.
Warren, Leslie F., Jr.; Maus, Louis; and Hall, William F., 4,710,401, Cl. 427-121.000.
Watson, George A.; Co, Ramon S.; Fuhrman, James L.; and Avella, Frank, 4,706,244, Cl. 370-69.100.
Weber, James L., 4,690,253, Cl. 188-72.700.
Weinhandl, Franz E., 4,657,488, Cl. 417-267.000.
Wheatley, Charles E., III; Mosley, Charles G.; and Hunt, Eugene V., 4,646,032, Cl. 331-78.000.
White, Stanley A., 4,680,727, Cl. 364-754.000.
Witucki, Edward F.; Warren, Leslie F., Jr.; and Newman, Paul R., 4,692,225, Cl. 204-59.00R.
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Wu, Kim F., 4,688,835, Cl. 292-59.000.
Yarne, Andrew J.; and Burr, Eldon F., 4,638,938, Cl. 228-180.100.
Yeh, Pochi A., 4,681,446, Cl. 356-350.000.
Yeh, Pochi A., 4,703,992, Cl. 350-3.640.
Rockwell, Lynn H.; and Dukarich, Gary S., to Sanders Associates, Inc. Digitizing tablet. 4,645,869, 2-24-87, Cl. 178-18.000.
Rockwell, Marshall A., III. Hand held scanning input device and system. 4,707,747, 11-17-87, Cl. 358-294.000.
Rockwell-Rimoldi S.p.A.: *See*—
Alberti, Adriano; and Minella, Giancarlo, 4,655,151, Cl. 112-168.000.
Draghicchio, Pietro, 4,641,591, Cl. 112-155.000.
Marchesi, Franco, 4,641,592, Cl. 112-162.000.
Marchesi, Franco, 4,681,047, Cl. 112-162.000.
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Santalini, Antonio, 4,640,397, Cl. 192-18.00B.
Rockwell, Theodore H., to Rockwell, H. Theodore. Knuckle save glove. 4,675,913, 6-30-87, Cl. 2-161.00R.
Rockwood, Clyde R.: *See*—
Waugh, Robert E.; Nannig, Urban R.; and Rockwood, Clyde R., 4,643,790, Cl. 156-242.000.
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Waugh, Robert E.; Nannig, Urban R.; and Rockwood, Clyde R., 4,716,052, Cl. 427-147.000.
Rockwood, Stephen D.: *See*—
Robinson, C. Paul; Rockwood, Stephen D.; Jensen, Reed J.; Lyman, John L.; and Aldridge, Jack P., III, 4,655,890, Cl. 204-157.220.
Rockwool Aktiebolaget: *See*—
Andersson, D. Bertil; Juhlin, Nils J. W.; Gillenium, Claes I.; Kjellberger, Olle; and Brinck, Owe R., 4,661,119, Cl. 44-10.00C.
Hartung, Gunnar W., 4,661,134, Cl. 65-6.000.
Roda, Dominick A., to Roda Industries, Inc. Removable shoe protector. 4,638,574, 1-27-87, Cl. 36-7.200.
Roda, Gary E. Ski pole receiver. 4,702,495, 10-27-87, Cl. 280-814.000.
Roda Industries, Inc.: *See*—
Roda, Dominick A., 4,638,574, Cl. 36-7.200.
Rodal, David R., to Ampex Corporation. Synthetic control track signal producing apparatus for video tape machines. 4,672,474, 6-9-87, Cl. 360-70.000.
Rodal, David R.: *See*—
Williams, Marshall; and Rodal, David R., 4,679,098, Cl. 360-10.100.
Rodarte, Michael R. Aerodynamic throwing implement. 4,681,553, 7-21-87, Cl. 446-46.000.
Rodaway, Shirley J.: *See*—
Lutz, Albert W.; and Rodaway, Shirley J., 4,677,226, Cl. 564-108.000.
Rodberg, Kenneth: *See*—
Howarth, Thomas R.; Flanagan, Peter F.; Harrold, William J.; and Rodberg, Kenneth, 4,703,464, Cl. 367-156.000.
Rodboon, Somsak S.: *See*—
Files, William C.; Pellerin, Norvin L.; Rodboon, Somsak S.; and Pearce, Thomas M., 4,640,024, Cl. 34-133.000.
Rodda, Donald: *See*—
Johnson, Ralph E.; and Rodda, Donald, 4,714,037, Cl. 112-184.000.
Rodda, William E., to RCA Corporation. Wide bandwidth display driver apparatus. 4,704,630, 11-3-87, Cl. 358-160.000.
Roddeck, Werner F.; and Schafer, Heinz-Peter, to Karl Deutsch Prüf- und Messgeratebau GmbH & Co. KG. Method of and apparatus for the ultrasonic measurement of the thickness of test articles. 4,658,648, 4-21-87, Cl. 73-597.000.
Roddeck, Werner F.: *See*—
Deutsch, Volker K.; and Roddeck, Werner F., 4,695,797, Cl. 324-230.000.
Rodder, Karl-Martin, to Dynamit Nobel Aktiengesellschaft. Impregnation of concrete in depth. 4,716,051, 12-29-87, Cl. 427-136.000.
Rodder, Karl-Martin: *See*—
Schnippering, Friedhelm; and Rodder, Karl-Martin, 4,715,895, Cl. 106-38.300.
Roddy, Charles P., Sr. Table salt comparator for sodium restricted diets. 4,666,408, 5-19-87, Cl. 434-127.000.
Rode, Konrad, to WABCO Westinghouse Fahrzeugbremsen GmbH. Electromagnetically-operated multi-way valve. 4,655,255, 4-7-87, Cl. 137-627.500.
Rode, Konrad: *See*—
Hofler, Siegfried; Rode, Konrad; and Schmidt, Reinhard, 4,689,990, Cl. 73-118.100.
Rode, Malcolm E.: *See*—
Krehm, Herman S.; Leidner, Jacob; and Rode, Malcolm E., 4,660,363, Cl. 57-31.000.
Rode, Melvin A.: *See*—
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Rode, Wilhelm, to Mannesmann AG. Hydraulically operated impacting device. 4,635,531, 1-13-87, Cl. 91-303.000.
Rodebaugh, Jimmy L.; and Rodebaugh, Onetta R. Cover for outdoor table and benches. 4,705,084, 11-10-87, Cl. 150-52.00R.
Rodebaugh, Onetta R.: *See*—
Rodebaugh, Jimmy L.; and Rodebaugh, Onetta R., 4,705,084, Cl. 150-52.00R.
Roden, Ralph V., Jr. Security bar for inwardly swinging doors. 4,667,992, 5-26-87, Cl. 292-259.00R.
Rodenberg, Herbert G.: *See*—
Cahill, Joseph, Jr.; and Rodenberg, Herbert G., 4,709,058, Cl. 549-267.000.
Rodenburst Limited: *See*—
Albuschkat, Dieter, 4,700,565, Cl. 73-147.000.
Rodenstock Instrument Corporation: *See*—
Cornsweet, Tom N.; and Hersh, Samuel, 4,715,703, Cl. 351-205.000.
Roder, Albert: *See*—
Deeg, Rolf; Roder, Albert; Siedel, Joachim; Gauhl, Helmgard; and Ziegenhorn, Joachim, 4,645,739, Cl. 435-25.000.
Elsner, Erich; Schleifer, Karl-Heinz; Gotz, Friedrich; Sedewitz, Barbara; Roder, Albert; Mollering, Hans; and Seidel, Hans, 4,666,832, Cl. 435-25.000.
Roder, Edward A., to Australian Wool Corporation. Conditioning baled material. 4,667,373, 5-26-87, Cl. 19-66.00R.
Roder GmbH Sitzmobelworke: *See*—
Korn, Heinrich, 4,707,029, Cl. 297-300.000.

Roder, Walter, to Messer Griesheim GmbH. Guidance device for a laser beam for three-dimensional machining of workpieces. 4,694,139, 9-15-87, Cl. 219-121.01LU.

Roderfeld, Heinrich; and Dammann, Johannes, to Claas Ohg. Self-propelled harvester thresher. 4,700,717, 10-20-87, Cl. 130-27.00T.

Rodewald, Paul G.; and Valyocsik, Ernest W., to Mobil Oil Corporation. Catalytic conversion. 4,665,264, 5-12-87, Cl. 585-533.000.

Rodewald, Paul G., to Mobil Oil Corporation. Catalytic conversion with boron trifluoride treated zeolite. 4,683,051, 7-28-87, Cl. 208-111.000.

Rodewald, Paul G., to Mobil Oil Corporation. Catalytic conversion with boron trifluoride treated zeolite. 4,709,110, 11-24-87, Cl. 585-463.000.

Rodewald, Paul G.; and Valyocsik, Ernest W., to Mobil Oil Corporation. Catalytic oxygenate conversion. 4,709,114, 11-24-87, Cl. 585-640.000.

Rodewald, Wilhelm H. A. Blower for agricultural spraying. 4,634,342, 1-6-87, Cl. 415-209.000.

Rodger, Ian Gordon: *See*—
Ellis, Leslie G., 4,679,742, Cl. 241-266.000.

Rodgers, Charles E.; and Rodgers, Herman R. Attachment for a back hoe bucket. 4,692,089, 9-8-87, Cl. 414-724.000.

Rodgers, Donald H.: *See*—
Bodovsky, Paul W.; and Rodgers, Donald H., 4,710,207, Cl. 55-290.000.

Rodgers, E. Walter, to Armor Metals, Inc. Multiple telephone jack slide assembly. 4,658,418, 4-14-87, Cl. 379-328.000.

Rodgers, E. Walter, to Armor Metals, Inc. Multiple telephone jack slide assembly. 4,712,232, 12-8-87, Cl. 379-329.000.

Rodgers, Eugene L.; and Stacey, Eric J., to Westinghouse Electric Corp. Current fed regulated voltage supply. 4,698,740, 10-6-87, Cl. 363-89.000.

Rodgers, Herman R. Tool for attaching and detaching spring clip from shaft. 4,697,483, 10-6-87, Cl. 81-418.000.

Rodgers, Herman R.: *See*—
Rodgers, Charles E.; and Rodgers, Herman R., 4,692,089, Cl. 414-724.000.

Rodgers, Ian W.: *See*—
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Rodgers, Jack L. Anti-skid coating composition. 4,708,978, 11-24-87, Cl. 524-5.000.

Rodgers, James C.; and Schieber, John R., to Betz Laboratories, Inc. Apparatus for mixing water and emulsion polymer. 4,664,528, 5-12-87, Cl. 366-142.000.

Rodgers, James E., to United Aircraft Products, Inc. Rotating air bearing. 4,682,920, 7-28-87, Cl. 409-231.000.

Rodgers, James L.; and Fowler, Billy C., to Kurta Corporation. Graphic tablet and method. 4,661,656, 4-28-87, Cl. 178-18.000.

Rodgers, James L.; and Waterbury, Charles A., to Kurta Corporation. Low power, high resolution digitizing system with cordless pen/-mouse. 4,672,154, 6-9-87, Cl. 178-19.000.

Rodgers, Jeremy A., to Rank Cintel Limited. Video signals special effects generator with variable pixel size. 4,694,345, 9-15-87, Cl. 358-216.000.

Rodgers, Robert E. Universal exercise machine. 4,679,786, 7-14-87, Cl. 272-70.000.

Rodi, Anto; and Blasius, Udo, to Heidelberger Druckmaschinen AG. Circuit arrangement using for a light barrier for detecting sheet-feeding faults in a printing press. 4,642,455, 2-10-87, Cl. 250-221.000.

Rodi, Anton; Reithofer, Jurgen; and Blaser, Peter, to Heidelberger Druckmaschinen AG. Filter unit on equipment requiring ventilation free of dust and impurities during operation. 4,659,349, 4-21-87, Cl. 55-385.00C.

Rodi, Anton; and Blaser, Peter, to Heidelberger Druckmaschinea AG. Method and device for determining the operating condition or status of an actuating or adjusting drive of a printing machine. 4,713,593, 12-15-87, Cl. 318-572.000.

Rodi, Anton: *See*—
Blasius, Udo; and Rodi, Anton, 4,639,727, Cl. 340-825.570.
Kipphan, Helmut; Rodi, Anton; and Blaser, Peter, 4,668,090, Cl. 356-244.000.

Rodi, Fritz: *See*—
Naumann, Rolf; Rademachers, Jakob; Buxbaum, Gunter; Rodi, Fritz; and Waid, Karl, 4,689,086, Cl. 106-290.000.

Rodi, Michael F.: *See*—
Farris, Ray L.; Rodi, Michael F.; Farris, Ray L.; Wylesol, George; and Cook, Thomas A., 4,665,899, Cl. 128-25.00R.

Rodiac Intercessor Ltd.: *See*—
Meijer, Johan B. A., 4,694,952, Cl. 198-499.000.

Rodig, R. Rick: *See*—
Gray, James W., 4,633,589, Cl. 30-427.000.

Rodime PLC: *See*—
Leslie, James B., 4,682,253, Cl. 360-77.000.
Stewart, Alexander; Furness, Duncan S.; and Bhatia, Sham P., 4,638,384, Cl. 360-77.000.

Rodin, Gunna: *See*—
Stridsberg, Lennart; and Rodin, Gunnar, 4,638,232, Cl. 318-640.000.
Stridsberg, Lennart; and Rodin, Gunnar, 4,670,976, Cl. 29-740.000.

Rodinov, Boris: *See*—
Gudymov, Ernest; Fedotov, Vasilij; Semenov, Vladimir; Rodinov, Boris; Berger, Friedrich; Wenzel, Winfried; Peise, Helmut; and Schingnitz, Manfred, 4,707,163, Cl. 48-73.000.

Rodio Foundation Engineering Ltd.: *See*—
De Porcellinis, Pietro, 4,656,796, Cl. 52-169.700.

Rodio, Francesco: *See*—
Calvino, Rosella; Fruttero, Roberta; Messori, Vittorio; and Rodio, Francesco, 4,671,816, Cl. 71-92.000.

Rodionov, Boris: *See*—
Fleischer, Klaus; Gohler, Peter; Mangler, Rolf; Reuther, Christian; Schingnitz, Manfred; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Rodionov, Boris, 4,704,971, Cl. 110-264.000.

Rodland, Karin D.; and Russell, Peter J. Hybridization method of detecting nucleic acid sequences with probe containing thionucleotide. 4,647,529, 3-3-87, Cl. 435-6.000.

Rodloff, Rudiger K.; and Jungbluth, Werner W., to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Piezoceramic servo-drive for producing translational motion, especially for application to ring laser mirrors. 4,639,630, 1-27-87, Cl. 310-328.000.

Rodloff, Rudiger K.; Jungbluth, Werner W.; and Laschinski, Dieter H., to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Rotational vibration drive for a ring laser gyroscope. 4,650,331, 3-17-87, Cl. 356-350.000.

Rodloff, Rudiger K.; and Jungbluth, Werner W., to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Ring laser, particularly for a ring laser type of gyro. 4,657,391, 4-14-87, Cl. 356-350.000.

Rodloff, Rudiger K.; and Jungbluth, Werner W., to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Ring laser, in particular for a ring laser type of gyro, having a block with an optical resonator cavity and three corner mirrors. 4,666,302, 5-19-87, Cl. 356-350.000.

Rodman, Clarke A.: *See*—
Farley, Radcliffe W.; Vaughn, Edward A.; Rodman, Clarke A.; and Homonoff, Edward C., 4,663,225, Cl. 428-290.000.
Homonoff, Edward C.; Rodman, Clarke A.; and Rutledge, Broadus L., II, 4,686,136, Cl. 428-286.000.
Thornton, Donald I.; and Rodman, Clarke A., 4,661,132, Cl. 55-486.000.
Thornton, Donald I.; and Rodman, Clarke A., 4,701,197, Cl. 55-487.000.

Rodney, Frederick W., Jr. Closed breech muzzle loader and loading tool. 4,715,139, 12-29-87, Cl. 42-51.000.

Rodney Hunt Company: *See*—
Henderson, Robert W., 4,700,927, Cl. 251-158.000.

Rodney, Paul F.; and Birchak, James R., to NL Industries, Inc. System for acoustic caliper measurements. 4,665,511, 5-12-87, Cl. 367-35.000.

Rodo, Ramon A. Mechanism to produce irregular effects in warp knitting. 4,663,947, 5-12-87, Cl. 66-213.000.

Rodocker, Frank A.: *See*—
McDonald, Kenneth P.; Rangwala, Badruddin K.; Owen, Barry C.; and Rodocker, Frank A., 4,712,665, Cl. 198-346.200.
Rangwala, Badrudden K.; Rodocker, Frank A.; Pawloski, Curtis H.; and Joosten, Richard L., 4,683,701, Cl. 53-167.000.

Rodomista, Guy: *See*—
Young, Chung C.; Coleman, Robert L.; Sullivan, Sheila M.; Grimes, John F.; Baumeister, Ferdinand; MacIndoe, Robert; Catalano, Lou; Coppola, Pat; Spaziani, Fred; Rodomista, Guy; and Fowler, James E., 4,686,479, Cl. 324-439.000.

Rodrigo, Richard D.: *See*—
Blitshteyn, Mark; Rodrigo, Richard D.; and Wright, William S., 4,665,462, Cl. 361-213.000.

Rodrigue, Peter R.: *See*—
Ali, Mohammad A.; Cotroneo, George V.; Rodrigue, Peter R.; and Smith, Robert T., 4,674,279, Cl. 60-398.000.

Rodrigue, Roland; and Rodrigue, Ronnie. Boat and propulsion system including a transom platform. 4,676,756, 6-30-87, Cl. 440-53.000.

Rodrigue, Roland; and Rodrigue, Ronnie. Boat and propulsion system. 4,678,440, 7-7-87, Cl. 440-53.000.

Rodrigue, Ronnie: *See*—
Rodrigue, Roland; and Rodrigue, Ronnie, 4,676,756, Cl. 440-53.000.
Rodrigue, Roland; and Rodrigue, Ronnie, 4,678,440, Cl. 440-53.000.

Rodrigues, John M.; and Wicksted, Michael G. Tri-state in-circuit logic comparator with automatic input/output terminal discrimination. 4,654,850, 3-31-87, Cl. 371-25.000.

Rodrigues, Julio: *See*—
Strauss, Richard F.; Herb, Phillip; Noorily, Peter; and Rodrigues, Julio, 4,676,850, Cl. 156-55.000.
Strauss, Richard F.; Herb, Phillip; Noorily, Peter; and Rodrigues, Julio, 4,695,679, Cl. 174-117.0FF.

Rodrigues, Pedro; Buren, Ingo; and Timm, Jurgen, to Swiss Aluminium Ltd. Thin, deformable composite laminate. 4,671,985, 6-9-87, Cl. 428-215.000.

Rodriguez-Amaya, Nestor: *See*—
Eblen, Ewald; Hofmann, Karl; Holzgrefe, Volker; Pigeroulet, Jean; Rodriguez-Amaya, Nestor; Simon, Nikolaus; Trachte, Dietrich; Weiss, Friedrich; and Ziegler, Ewald, 4,653,455, Cl. 123-506.000.

Rodriguez, Angel. Bicycle freewheel core holder. 4,669,714, 6-2-87, Cl. 269-47.000.

Rodriguez, Anthony R. Elevator display system. 4,677,279, 7-7-87, Cl. 40-514.000.

Rodriguez, Arnaldo; and Spector, George. Ball playing racket with forearm support. 4,676,505, 6-30-87, Cl. 273-67.00B.

Rodriguez, Bernard: *See*—
Bocking, Bruce; Cervantes, Joe A., Jr.; Green, Douglas H.; La Sota, Bruce W.; Marshall, David H.; Rodriguez, Bernard; and Van Gorden, Glen, 4,681,175, Cl. 175-393.000.

Rodriguez-Cavazos, Enrique, to RCA Corporation. Raster distortion correction circuit. 4,642,530, 2-10-87, Cl. 315-371.000.
Rodriguez-Cavazos, Enrique, to RCA Corporation. Remote controlled television receiver power supply. 4,651,214, 3-17-87, Cl. 358-190.000.
Rodriguez-Cavazos, Enrique, to RCA Corporation. Television receiver having single pole double throw rotary switch and centering circuit. 4,703,233, 10-27-87, Cl. 315-398.000.
Rodriguez-Cavazos, Enrique: *See*—
Willis, Donald H.; and Rodriguez-Cavazos, Enrique, 4,672,642, Cl. 377-20.000.
Rodriguez, Charles W.: *See*—
Chang, Yi-Hua E.; Gruodis, Algirdas J.; Muhlfeld, Hans P., Jr.; Rodriguez, Charles W.; and Shulman, Mark L., 4,639,919, Cl. 371-37.000.
Rodriguez, Domingo; and Schemel, Roberto, to Intevep, S.A. Process for the regeneration of spent catalyst used in the upgrading of heavy hydrocarbon feedstocks. 4,678,557, 7-7-87, Cl. 208-112.000.
Rodriguez, Edward, to United States of America, Air Force. Automatic formation turns. 4,674,710, 6-23-87, Cl. 244-76.00R.
Rodriguez, Francis; and Roblin, Jean-Paul, to Alsthom. Fluid-tight coupling for two sections of a fluid line. 4,679,824, 7-14-87, Cl. 285-27.000.
Rodriguez, John G. Tamale making method. 4,687,670, 8-18-87, Cl. 426-297.000.
Rodriguez, Jose-Ignacio; and Jung, Erich, to Deutsche Thomson-Brandt GmbH. Short-circuit protected mains supply unit, especially for television receivers. 4,677,519, 6-30-87, Cl. 361-101.000.
Rodriguez, Larry A.: *See*—
Ashworth, Robert A.; Rodriguez, Larry A.; Padilla, Antonio A.; Spake, Ned B.; Berry, W. Wes; and Schmeda, Rae A., 4,652,433, Cl. 423-112.000.
Rodriguez, Marco E.: *See*—
Bayer, Dean M.; McCoy, Larry J.; Thomason, Chris A.; Tranbarger, Thomas P.; and Rodriguez, Marco E., 4,679,837, Cl. 293-102.000.
Rodriguez, Peter A. Apparatus and method for cutting and spooling a web of paper. 4,659,029, 4-21-87, Cl. 242-56.00R.
Rodriguez, Rodolfo R.: *See*—
Wardlaw, Stephen C.; Levine, Robert A.; Rodriguez, Rodolfo R.; and Loken, Michael R., 4,695,553, Cl. 436-177.000.
Rodriguez, Saulo, to Lisle Corporation. Flexplate turning tool. 4,672,867, 6-16-87, Cl. 81-176.100.
Rodriguez-Tovar, Santiago: *See*—
Taddei-Contreras, Fernando; Rodriguez-Tovar, Santiago; and Cardenas-Franco, Luis, 4,675,042, Cl. 65-158.000.
Rodseth, William G.: *See*—
Peterson, Francis C.; Rodseth, William G.; and Spring, William A., 4,652,971, Cl. 361-386.000.
Rodwell, John D.; and McKearn, Thomas J., to Cytogen Corporation. Antibody conjugates for the delivery of compounds to target sites. 4,671,958, 6-9-87, Cl. 424-85.000.
Roe, Anthony M.; Coates, William J.; Slater, Robert A.; Breukelman, Stephen P.; and Meakins, George D., to Smith Kline & French Laboratories Limited. Pharmaceutical compositions having β-adrenoceptor antagonist activity employing pyridazinone derivatives. 4,678,786, 7-7-87, Cl. 514-247.000.
Roe, Diane H.: *See*—
Hinson, James W.; and Roe, Diane H., 4,663,859, Cl. 34-10.000.
Roe, Douglas: *See*—
Roe, Douglas A.; and Harp, Terance D., 4,648,476, Cl. 180-297.000.
Roe, Douglas A.; and Harp, Terance D., to Roe, Douglas. Motor vehicle. 4,648,476, 3-10-87, Cl. 180-297.000.
Roe, Douglas A. Atomizing valve apparatus for internal combustion engine. 4,702,220, 10-27-87, Cl. 123-593.000.
Roe, Elverton O.; and Moore, Charles G., to Wooster Brush Company, The. Flat pad applicator. 4,658,461, 4-21-87, Cl. 15-210.00R.
Roe, Elverton O.; and Moore, Charles G., to Wooster Brush Company, The. Quick release lock mechanism for telescoping members. 4,662,771, 5-5-87, Cl. 403-108.000.
Roe, Elverton O.; and Moore, C. Gregg, to Wooster Brush Company, The. Power paint sprayer. 4,693,423, 9-15-87, Cl. 239-332.000.
Roe, Homer D. Variable pitch propeller. 4,678,402, 7-7-87, Cl. 416-157.00R.
Roe, James: *See*—
Spiel, Albert; Roe, James; and Spanier, Henry C., 4,634,597, Cl. 426-635.000.
Spiel, Albert; Roe, James; and Spanier, Henry C., 4,711,425, Cl. 249-117.000.
Roe, Joseph L.: *See*—
Radtke, Werner A.; and Roe, Joseph L., 4,704,778, Cl. 29-235.000.
Roe, Malcolm D. M.; and Hicks, Michael E., to Crosfield Electronics (USA) Limited. Matching beam modulators. 4,700,149, 10-13-87, Cl. 332-7.510.
Roe, Malcolm D. M.; and Hicks, Michael E., to Crosfield Electronics Limited. Modulators. 4,716,384, 12-29-87, Cl. 332-7.510.
Roe, Robert J.: *See*—
Westfall, Alan P.; and Roe, Robert J., 4,702,676, Cl. 417-87.000.
Roe, William J., to Nalco Chemical Company. Compositions for the freeze protection of coal solids. 4,666,741, 5-19-87, Cl. 427-220.000.
Roebuck, Richard K.: *See*—
DeLapp, Dennis W.; and Roebuck, Richard K., 4,686,467, Cl. 324-158.00F.
Roecar Holdings: *See*—
Drewes, Siegfrid; and Liebenberg, Roelof W., 4,652,636, Cl. 536-4.100.
Roeder, Alfred: *See*—
Bestek, Heinz; Ewald, Werner; Hennecke, Hans-Peter; Roeder, Alfred; and Schmitz, Friedrich, 4,636,379, Cl. 423-640.000.
Roeder, Allan W., to General Electric Company. Spread spectrum correlation receiver. 4,653,069, 3-24-87, Cl. 380-31.000.
Roeder, Barbara J.; Harwood, Leopold A.; and Weckenbrock, Hermann J., to RCA Corporation. Interfield image motion detector for video signals. 4,661,853, 4-28-87, Cl. 358-167.000.
Roeder, Barbara J.; Harwood, Leopold A.; and Weckenbrock, Hermann J., to RCA Corporation. Signal background noise detector. 4,684,989, 8-4-87, Cl. 358-167.000.
Roeder, Barbara J.: *See*—
Weckenbrock, Hermann J.; Roeder, Barbara J.; Casey, Robert F.; Harwood, Leopold A.; and Wedam, Werner F., 4,651,211, Cl. 358-166.000.
Roeder, George K. Downhold hydraulic actuated pump. 4,664,186, 5-12-87, Cl. 166-68.500.
Roeder, Robert S.: *See*—
Garrard, John T.; Gregg, Jack E.; and Roeder, Robert S., 4,665,401, Cl. 342-75.000.
Roederer, Antoine G.; and Crone, Gerald A. E., to Agence Spatiale Europeenne. Double grid reflector antenna. 4,647,938, 3-3-87, Cl. 343-756.000.
Roederer, Antoine G.; Doro, Guilio; and Lisi, Marco, to Agence Spatiale Europeenne. Power divider for multibeam antennas with shared feed elements. 4,710,776, 12-1-87, Cl. 343-778.000.
Roederstein Spezialfabriken fur Bauelemente der Elektronik: *See*—
Harpaintner, Alfons, 4,665,377, Cl. 338-195.000.
Roedig, Robert, to Grumman Aerospace Corporation. Sealant applicator for rivet machine. 4,635,827, 1-13-87, Cl. 222-160.000.
Roedseth, John K., to Goodyear Tire & Rubber Company, The. Transfer apparatus for tire carcasses and tire bands. 4,684,422, 8-4-87, Cl. 156-125.000.
Roeger, Bernd: *See*—
Koenig, Karlheinz; Kohl, Lambert; Witz, Ruediger; and Roeger, Bernd, 4,672,491, Cl. 360-106.000.
Roehl, Franz, to Bentonspritz Nascgubeb GmbH Co. Spraying machine. 4,690,328, 9-1-87, Cl. 239-227.000.
Roehm GmbH Chemische Fabrik: *See*—
Buck, Manfred; and Hanstein, Friedrich, 4,663,094, Cl. 264-25.000.
Roehr, William H., Jr.; and Goodman, Richard L., to United States Surgical Corporation. Surgical fastener applying apparatus with tissue edge control. 4,715,520, 12-29-87, Cl. 227-19.000.
Roehrer, Kurt: *See*—
Lohrmann, Gerhard; and Roehrer, Kurt, 4,650,358, Cl. 400-616.200.
Roehrig, Phillip J.; and Gray, Neal R., to Amerock Corporation. Indexable star wheel. 4,685,347, 8-11-87, Cl. 74-436.000.
Roeland, Robert: *See*—
Grimes, Thomas L.; Roeland, Robert; and Schadewald, Frederic H., 4,705,611, Cl. 204-129.100.
Roelofs, Darrell D.: *See*—
Louie, Chuen W.; Roelofs, Darrell D.; Volk, John L.; and Romeo, Arthur L., 4,673,847, Cl. 315-368.000.
Spieth, Robert H.; Louie, Chuen W.; Volk, John L.; Roelofs, Darrell D.; DeLorenzo, Anthony N.; Romeo, Arthur L.; and Mayer, Thomas L., 4,680,510, Cl. 315-368.000.
Roelofs, Johannus C. M.: *See*—
van de Sluys, Willem L. N.; Pastoor, Jacobus; and Roelofs, Johannus C. M., 4,648,441, Cl. 165-111.000.
Roemer, Erich; Schopf, Eckhart; and Cezanne, Gunter, to Glyco-Metall-Werke Daelen & Loos GmbH. Plain journal bearing. 4,693,617, 9-15-87, Cl. 384-282.000.
Roemer, Frederick D.: *See*—
Tateosian, Louis; and Roemer, Frederick D., 4,698,373, Cl. 522-95.000.
Roemischer, Johann: *See*—
Polzer, Bernhard; and Roemischer, Johann, 4,685,050, Cl. 364-152.000.
Roerdink, Eize: *See*—
Bruls, Wilhelmus G. M.; and Roerdink, Eize, 4,661,545, Cl. 524-147.000.
Roerig, Arnold J.; and Shockley, Steven C., to Beloit Corporation. Enclosed shoe press with flexible end connections for its annular belt. 4,673,461, 6-16-87, Cl. 162-205.000.
Roerink, Jan H. G., to Duphar International Research B.V. Method of preparing adjuvanted live attenuated vaccines and adjuvanted live attenuated vaccines thus obtained. 4,650,677, 3-17-87, Cl. 424-89.000.
Roesch, Androniki: *See*—
Schaumann, Wolfgang; Wilhelms, Otto-Henning; Roesch, Androniki; and Kampe, Wolfgang, 4,704,381, Cl. 514-46.000.
Witte, Ernst-Christian; Neubert, Peter; and Roesch, Androniki, 4,670,439, Cl. 514-253.000.
Roesch, Egon: *See*—
Mertens, Alfred; Holck, Jens-Peter; Berger, Herbert; Muller-Beckmann, Bernd; Strein, Klaus; and Roesch, Egon, 4,695,567, Cl. 514-253.000.
Roesch, Marcia G. Interchangeable jewelry assembly. 4,655,054, 4-7-87, Cl. 63-13.000.
Roeschlau, Peter: *See*—
Becker, Udo; and Roeschlau, Peter, 4,692,406, Cl. 435-13.000.
Rehner, Helmut; and Roeschlau, Peter, 4,716,119, Cl. 436-16.000.
Roese, Helmut: *See*—
Geyer, Arthur; Kuisl, Max; Pfeiffer, Eugen; Roese, Helmut; and Klein, Werner, 4,636,364, Cl. 422-162.000.

Roesel, John F., Jr.; and Barber, Ronnie J., to Precise Power Corporation. A.C. motor-generator. 4,663,536, 5-5-87, Cl. 290-7.000.

Roeser, Heribert: *See—*
Horn, Guenther; Pieper, Wolfgang; and Roeser, Heribert, 4,646,047, Cl. 336-192.000.
Horn, Gunther; Pieper, Wolfgang; and Roeser, Heribert, 4,649,361, Cl. 336-192.000.

Roeser, Karl; Lauer, Manfred; Sauter, Hubert; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, to BASF Aktiengesellschaft. Azolylnitriles, and fungicides containing these compounds. 4,639,447, 1-27-87, Cl. 514-222.000.

Roeske, Klaus J.: *See—*
Bishop, Arthur E.; and Roeske, Klaus J., 4,651,551, Cl. 72-189.000.
Bishop, Arthur E.; and Roeske, Klaus J., 4,703,145, Cl. 219-69.00R.
Bishop, Arthur E.; Roeske, Klaus J.; and Scott, David W., 4,715,210, Cl. 72-400.000.

Roeske, Roger W.; Rivier, Jean E. F.; and Vale, Wylie W., Jr., to Salk Institute for Biological Studies, The. GnRH antagonists V. 4,689,396, 8-25-87, Cl. 530-313.000.

Roessiger, Claude, to Ocor Products Corporation. Flexible block packaging. 4,691,368, 9-1-87, Cl. 383-10.000.

Roessing, Thomas J.: *See—*
Hindman, Thomas D.; Roessing, Thomas J.; and Burkhard, Joseph D., 4,716,191, Cl. 524-488.000.

Roessler, Manfred: *See—*
Burdette, Fred E.; Fleury, Jean-Luc; and Roessler, Manfred, 4,654,941, Cl. 29-156.80R.
Burdette, Fred E.; Fleury, Jean-Luc; and Roessler, Manfred, 4,659,295, Cl. 417-407.000.

Roessler, Peter: *See—*
Mohring, Edgar; Muller, Hanns P.; Roessler, Peter; Wagner, Kuno; and Tietz, Helmut, 4,684,728, Cl. 544-182.000.

Roessler, Thomas H., to Kimberly-Clark Corporation. Disposable bib with an improved pocket formed with an accordion fold. 4,649,572, 3-17-87, Cl. 2-49.00R.

Roest, Jacob B.: *See—*
Bleeker, Jan J.; Lammers, Jan H.; and Roest, Jacob B., 4,670,167, Cl. 252-8.554.
Bleeker, Jan J.; Lammers, Jan H.; Roest, Jacob B.; and Eckert, Rudolf J. A., 4,670,550, Cl. 536-114.000.

Roestenberg, Jerome R. Block sander vacuum. 4,680,895, 7-21-87, Cl. 51-170.00R.

Roether, Kurt, to Mannesmann AG. Method of making tubular units for the oil and gas industry. 4,710,245, 12-1-87, Cl. 148-12.400.

Roethke, Siegfried. Exercise tower and bench. 4,635,934, 1-13-87, Cl. 272-144.000.

Roetter, Frank; and Oeschger, Frank, to Pitney Bowes Inc. Envelope feeding apparatus. 4,635,922, 1-13-87, Cl. 271-119.000.

Roetter, Frank T.: *See—*
Irvine, Robert; Mersereau, Robert E.; Roetter, Frank T.; and Silverman, Harold, 4,688,708, Cl. 225-100.000.

Roever, William L., to Shell Oil Company. Filled hydrophone mounts. 4,689,777, 8-25-87, Cl. 367-153.000.

Roffelsen, Franciscus, to Spiro Research B.V. Method and apparatus for reducing the gas content of a liquid. 4,645,518, 2-24-87, Cl. 55-203.000.

Roffelsen, Franciscus, to Spiro Research B.V. Pipe for utility or service systems. 4,646,823, 3-3-87, Cl. 165-181.000.

Roffelsen, Franciscus, to Spiro Research B.V. Heat exchanger duct with heat exchange wiring. 4,655,282, 4-7-87, Cl. 165-184.000.

Roffinella, Daniele: *See—*
Gagliardi, Fabrizio; Lambarelli, Livio; Panarotto, Gianfranco; Roffinella, Daniele; and Sposini, Maurizio, 4,696,001, Cl. 370-88.000.
Lambarelli, Livio; Roffinella, Daniele; and Sposini, Maurizio, 4,663,758, Cl. 370-94.000.

Rofin-Sinar Laser: *See—*
Martinen, Hinrich; Simonsson, Samuel S.; and Wirth, Peter, 4,634,831, Cl. 219-121.0LG.

Rogala, John: *See—*
Clark, Carl A.; and Rogala, John, 4,662,795, Cl. 405-261.000.

Rogall, Wolfgang. Gymnastic and playing device. 4,712,792, 12-15-87, Cl. 272-93.000.

Rogalla, Lyle H., to Environmental Air Contractors, Inc. Treating apparatus and method. 4,686,121, 8-11-87, Cl. 427-378.000.

Rogalski, Lawrence D. Holder for VCR and TV remote controls. 4,660,792, 4-28-87, Cl. 248-174.000.

Roge, Paul; and Roge, Ralph R. Mailbox signal device. 4,711,391, 12-8-87, Cl. 232-35.000.

Roge, Ralph R.: *See—*
Roge, Paul; and Roge, Ralph R., 4,711,391, Cl. 232-35.000.

Rogemont, Jean; and Nouvet, Andre, to Cefilac. Process for the manufacture of an interposed support of semipermeable membranes. 4,701,234, 10-20-87, Cl. 156-230.000.

Roger, Bernard P., to U.S. Philips Corporation. Semiconductor device having overload protection. 4,635,091, 1-6-87, Cl. 357-67.000.

Roger Bullivant of Texas, Inc.: *See—*
Bullivant, Roger A., 4,659,256, Cl. 405-230.000.

Roger, Francoise M. M.: *See—*
Goepfert, Serge P. P.; Renault, Serge A. M.; and Roger, Francoise M. M., 4,648,925, Cl. 156-153.000.
Goepfert, Serge P. P.; Renault, Serge A. M.; Roger, Francoise M. M.; Themont, Jean-Pierre; and Vachet, Andre J., 4,683,153, Cl. 428-1.000.

Roger, Gerard; and Marsault, Jean J., to Stein Industrie Societe Anonyme. Device for the homogeneous mixing of liquids flowing at different temperatures. 4,656,001, 4-7-87, Cl. 376-405.000.

Roger, Loic; Maubois, Jean-Louis; Brule, Gerard; and Piot, Michel, to Institut De La Recherche Agronomique. Process for obtaining an alpha-lactalbumin enriched product from whey and uses thereof. 4,711,953, 12-8-87, Cl. 530-366.000.

Roger, Marc: *See—*
Gain, Robert; Simon, Jacques; Pasturel, Andre ; and Roger, Marc, 4,708,836, Cl. 264-40.100.

Roger, Stephen J.; Bryant, John D.; and Wong, Philip, to Burroughs Corporation. Document sensing apparatus that detects non-specular reflected light. 4,636,633, 1-13-87, Cl. 250-223.00R.

Rogers, Albert J.; Smith, Michael E.; and Trounson, James E., to Cemtronics. Concrete machine tools. 4,657,455, 4-14-87, Cl. 409-235.000.

Rogers, Alvin J.: *See—*
Fishman, Herbert; and Rogers, Alvin J., 4,678,169, Cl. 269-46.000.

Rogers, Ann M.; El-Hag, Nabil A.; and Shenouda, Soliman Y. K., to General Foods Corporation. Preservation of the green color of blanched vegetables. 4,701,330, 10-20-87, Cl. 426-270.000.

Rogers, Antony W.: *See—*
Harvey, Ross H.; Wobcke, Graham W.; Rogers, Antony W.; and Fenwick, Robert R., 4,650,579, Cl. 210-199.000.

Rogers, Burton L., Jr.; and Greninger, Leonard O. Head gripping apparatus for a neck exercising machine. 4,655,450, 4-7-87, Cl. 272-94.000.

Rogers, Charles F., III. Electronic control and method for increasing efficiency of heating and cooling systems. 4,682,473, 7-28-87, Cl. 62-89.000.

Rogers, Charles J.; and Kornel, Alfred, to United States of America, Environmental Protection Agency. Chemical destruction of halogenated aliphatic hydrocarbons. 4,675,464, 6-23-87, Cl. 585-538.000.

Rogers, Clarence L., to Uniroyal Goodrich Tire Company, The. Tire uniformity abrading method. 4,669,228, 6-2-87, Cl. 51-281.00R.

Rogers Corporation: *See—*
Etzel, Stephen J., 4,655,524, Cl. 339-59.00M.
Etzel, Stephen J.; and Gottlieb, Michael M., 4,675,626, Cl. 333-161.000.
Frayer, Paul D., 4,639,485, Cl. 524-378.000.
Frayer, Paul D., 4,687,968, Cl. 313-509.000.
Gazit, Samuel; and Fleischer, Cathy A., 4,634,631, Cl. 428-421.000.
Gazit, Samuel; and Kneeland, Thomas S., 4,647,508, Cl. 420-421.000.
Gordon, Herman B.; and Carey, Bernard J., 4,645,280, Cl. 339-17.00F.
Gordon, Herman B., 4,691,972, Cl. 439-77.000.
Hernandez, Jorge M., 4,658,327, Cl. 361-306.000.
Hernandez, Jorge M.; and Gilderdale, Aleta, 4,667,267, Cl. 361-306.000.
Hernandez, Jorge M.; and Gilderdale, Aleta, 4,706,162, Cl. 361-306.000.
Jodoin, Raymond C., 4,636,918, Cl. 361-405.000.
Johnston, Joseph E., 4,675,625, Cl. 333-161.000.
Johnston, Joseph E., 4,675,627, Cl. 333-161.000.
Landi, Vincent R.; and Rowlands, Edwin R., 4,647,125, Cl. 339-17.00F.
Landi, Vincent R.; and Fitts, Bruce B., 4,659,758, Cl. 524-35.000.
Simpson, Scott, 4,692,476, Cl. 521-112.000.
Traut, G. Robert; and Wilson, Geoff J., 4,647,940, Cl. 343-770.000.
Traut, G. Robert, 4,656,069, Cl. 428-35.000.
Traut, G. Robert, 4,659,598, Cl. 428-35.000.
Traut, G. Robert; and Wilson, Geoff J., 4,689,629, Cl. 343-770.000.

Rogers, D. Brett; and Penner, Kevin T., to Energy Development Corporation. Hardness testing device for pipes. 4,635,471, 1-13-87, Cl. 73-81.000.

Rogers, David B.: *See—*
Barlow, John; and Rogers, David B., 4,667,727, Cl. 164-97.000.

Rogers, David E.: *See—*
Mattscheck, Douglas; and Rogers, David E., 4,676,025, Cl. 49-477.000.

Rogers, David L.: *See—*
Mason, Ronald G.; Pitzer, Emory W.; McDaniel, Max P.; Rogers, David L.; and Waterman, James W., 4,681,266, Cl. 241-18.000.

Rogers, Donald: *See—*
Howe, Stephen H.; and Rogers, Donald, 4,710,259, Cl. 156-601.000.

Rogers, Donald Z.: *See—*
Rickborn, Steven F.; and Rogers, Donald Z., 4,686,116, Cl. 427-215.000.

Rogers, Edward A.: *See—*
Comer, Robert C.; Hampel, Wilbur J.; and Rogers, Edward A., 4,694,528, Cl. 15-330.000.

Rogers, Edward J., to S&C Electric Company. Decoupling arrangement between drive source and power train. 4,669,589, 6-2-87, Cl. 192-14.000.

Rogers, Edward J.: *See—*
Hall, Walter J.; Lin, Chester H.; Ramos, Joel A.; and Rogers, Edward J., 4,636,602, Cl. 200-153.0SC.
Ramos, Joel A.; Rogers, Edward J.; and Tobin, Thomas J., 4,677,262, Cl. 200-48.00A.

Rogers, Elmer H., Jr., to Aluminum Company of America. Heat exchanger manufacture process. 4,660,264, 4-28-87, Cl. 29-157.400.

Rogers, Frankin R.: *See—*
Rogers, Jerry W.; Rogers, Frankin R.; and Jacobs, R. Wayne, 4,658,448, Cl. 4-493.000.

Rogers, Gary C.: *See*—
Lee, Shirley L.; Parish, Michael H.; and Rogers, Gary C., 4,659,088, Cl. 273-310.000.
Rogers, Gerald H. Strengthened latch and striker bar structure for fence gates. 4,690,440, 9-1-87, Cl. 292-54.000.
Rogers, Howard G., to Polaroid Corporation. Foldable tripod. 4,640,482, 2-3-87, Cl. 248-168.000.
Rogers, Howard H.: *See*—
Stadnick, Steven J.; and Rogers, Howard H., 4,683,178, Cl. 429-101.000.
Stadnick, Steven J.; and Rogers, Howard H., 4,689,544, Cl. 320-46.000.
Rogers, Jerry W.; Rogers, Frankin R.; and Jacobs, R. Wayne. Process and apparatus for heating baths and the like. 4,658,448, 4-21-87, Cl. 4-493.000.
Rogers, Joel G.; and Saylor, Dwight P. Method and apparatus for 3-D encoding. 4,675,526, 6-23-87, Cl. 250-363.500.
Rogers, John H.; Hopper, Michael J.; and Martin, Michael R., to American Hoechst Corporation. Production of iodine stainable polyester polarizer film. 4,659,523, 4-21-87, Cl. 264-1.300.
Rogers, John M. Apparatus for milling exterior surfaces and refacing both shoulders of a two-shoulder tool joint. 4,709,604, 12-1-87, Cl. 82-4.00C.
Rogers, Kermett A. Anti-theft apparatus for a riding saddle. 4,683,729, 8-4-87, Cl. 70-58.000.
Rogers, Larry K., to American Standard Inc. Work cylinder having a piston member with an integral cushioning arrangement. 4,651,623, 3-24-87, Cl. 91-396.000.
Rogers, Leo C.; and Heitz, Alfred J. Manufacture of polycrystalline silicon. 4,681,652, 7-21-87, Cl. 156-613.000.
Rogers, Leonard M., to Avtaec Limited. Underwater transducers. 4,665,750, 5-19-87, Cl. 73-587.000.
Rogers, Leroy K., Sr. Supercharger for automobile engines. 4,693,669, 9-15-87, Cl. 415-143.000.
Rogers, Lloyd W.: *See*—
Horvath, Zoltan L.; Kavanagh, Gary A.; Manning, Steven F.; Pyszel, Ronald J.; Rogers, Lloyd W.; and Schlaps, Edgar H., 4,707,027, Cl. 297-284.000.
Rogers Merchandising, Inc.: *See*—
Levy, Leon M., 4,643,381, Cl. 248-154.000.
Rogers, Myer: *See*—
Sink, Nicholas C.; and Rogers, Myer, 4,661,324, Cl. 422-246.000.
Rogers, Noel A. Automatic sensitivity adjustment and audio muting for aircraft marker beacon receiver. 4,642,646, 2-10-87, Cl. 342-407.000.
Rogers, O. David; Bardwick, John, III; and Staten, Kenneth, to Stage Rite Corporation. Staging structure. 4,638,604, 1-27-87, Cl. 52-6.000.
Rogers, Peter R., to Cam Gears Limited. Method of forming a rack member. 4,641,406, 2-10-87, Cl. 29-159.200.
Rogers, Phillip P. Ambulatory dialysis system and connector. 4,655,762, 4-7-87, Cl. 604-403.000.
Rogers, Ralph R. Suspension system for a truck or the like. 4,643,447, 2-17-87, Cl. 280-712.000.
Rogers, Ralph R. Suspension system for a trailer or the like. 4,676,523, 6-30-87, Cl. 280-682.000.
Rogers, Ramon B. Field sprayer and enclosure member therefor. 4,646,971, 3-3-87, Cl. 239-166.000.
Rogers, Raymond E.: *See*—
Passaro, Robert E.; Rogers, Raymond E.; and Griffith, Craig J., 4,687,934, Cl. 250-343.000.
Passaro, Robert E.; Williams, Kevin G.; Parnoff, George K.; and Rogers, Raymond E., 4,692,621, Cl. 250-343.000.
Rogers, Richard B.; and Herrero, Maria P., to Dow Chemical Company, The. Aryl(aryloxy or arylthio)azolomethanes. 4,636,514, 1-13-87, Cl. 514-340.000.
Rogers, Richard B.; and Gerwick, B. Clifford, III, to Dow Chemical Company, The. Fluorophenoxyphenoxypropionates and derivatives thereof. 4,642,338, 2-10-87, Cl. 534-558.000.
Rogers, Richard B.; and Goring, Cleve A. I., to Dow Chemical Company, The. Herbicidal aryloxyphenoxyalkanoate and alkenoate derivatives, compositions, and method of use therefor. 4,684,394, 8-4-87, Cl. 71-90.000.
Rogers, Richard B.; and Goring, Cleve A. I., to Dow Chemical Company, The. Pyridyloxyphenoxyalkanoates, alkenoates and derivatives thereof, useful as herbicidal agents. 4,685,959, 8-11-87, Cl. 71-94.000.
Rogers, Richard B.; and Herrero, Maria P., to Dow Chemical Company, The. Phenyl (phenoxy or pheaylthio) azolomethanes. 4,701,207, 10-20-87, Cl. 71-92.000.
Rogers, Richard B.; and Herrero, Maria P., to Dow Chemical Company, The. Pyridyl (pyridyloxy or pyriolylthio) azolomethanes. 4,701,463, 10-20-87, Cl. 514-333.000.
Rogers, Richard B.; and Herrero, Maria P., to Dow Chemical Company, The. Aryl(aryloxy or arylthio)azolomethanes and their use as pesticides. 4,716,174, 12-29-87, Cl. 514-340.000.
Rogers, Robert G., to California Microwave, Incorporated. Oscillator coupled through cylindrical cavity for generating low noise microwaves. 4,673,894, 6-16-87, Cl. 331-96.000.
Rogers, Robert L., to Exxon Research & Engineering Company. Apparatus for printing with ink jet chambers utilizing a plurality of orifices. 4,710,034, 12-22-87, Cl. 346-140.00R.
Rogers, Robert T.; and Siewert, James C., to Litton Systems, Inc. Fast acting solid state AC circuit breaker. 4,713,720, 12-15-87, Cl. 361-97.000.
Rogers, Rodrick M. Restoration of deteriorated plaster surfaces. 4,662,144, 5-5-87, Cl. 52-744.000.
Rogers, Roger W.: *See*—
Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.
Rogers, Russell L.; Perrine, Neill D.; and Alexander, Richard M., to Aeroquip Corporation. Pipeline repair kit. 4,639,016, 1-27-87, Cl. 285-15.000.
Rogers, Russell L.: *See*—
Allread, Alan R.; Marrison, William C.; Rogers, Russell L.; and Webster, Alexander P., 4,643,216, Cl. 137-68.100.
Hawley, Frank D.; and Rogers, Russell L., 4,638,842, Cl. 141-302.000.
Rogers, Steve: *See*—
Lane, Darryl; Barr, B. G.; Dutton, Mike; Frain, Mike; Frechette, Simon; Hummel, Keith; Majerle, John; Majerle, Joseph; Rogers, Steve; Unger, Mark; and Umholtz, Robert, 4,664,366, Cl. 269-303.000.
Rogers, Steven H.; Mundt, Randall S.; and Kaya, Denise A., to NCR Corporation. Trench isolation structures. 4,656,497, 4-7-87, Cl. 357-50.000.
Rogers Tool Works, Inc.: *See*—
Mitchell, James L., 4,655,631, Cl. 403-349.000.
Rogers, Wade T.: *See*—
Jansson, Peter A.; Rogers, Wade T.; and Schwaber, James S., 4,672,559, Cl. 364-525.000.
Jansson, Peter A.; Rogers, Wade T.; and Schwaber, James S., 4,673,988, Cl. 358-280.000.
Rogers Walla-Walla, Inc.: *See*—
Samson, Dennis J.; and Alcorn, George R., 4,644,838, Cl. 83-865.000.
Rogers, Walter C., Jr., to Parma Corporation. Footrest assembly for recliner chairs. 4,669,778, 6-2-87, Cl. 297-85.000.
Rogers, Walter C., Jr.; and Holobaugh, Raymond E., to Parma Corporation. Recliner with headrest. 4,691,961, 9-8-87, Cl. 297-61.000.
Rogers, Walter C., Jr., to Parma Corporation. Self-inflatable air mattress in a foldable support. 4,694,515, 9-22-87, Cl. 5-13.000.
Rogers, Walter C., Jr., to Parma Corporation. Rocker recliner. 4,707,025, 11-17-87, Cl. 297-259.000.
Rogers, Wayne W.; and Wang, Carl C. T., to Alcon Instrumentation, Inc. Linear suction control system. 4,706,687, 11-17-87, Cl. 128-752.000.
Rogers, William E.; and Borton, David N., to Power Kinetics, Inc. Concave mirror apparatus and method of construction. 4,682,865, 7-28-87, Cl. 350-607.000.
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Rogers, William R.; and Lieschcidt, Duane B., to Gerber Products Company. Method and apparatus for folding articles on header cards. 4,644,730, 2-24-87, Cl. 53-397.000.
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Entwistle, Brian; Roberts, Peter; and Rogerson, John M., 4,698,766, Cl. 364-468.000.
Rogg, Eduard: *See*—
Gerber, Urs; Gerber, Erich; Hofer, Peter; Fischer, Erwin; Lusuardi, Werther; Gysel, Walter; Baggi, Roland; Rogg, Eduard; and Gut, Karl, 4,665,794, Cl. 89-36.020.
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Rogge, Bernd: *See*—
Lungu, Mihail; and Rogge, Bernd, 4,689,135, Cl. 204-415.000.
Rogge, Danny G.: *See*—
Passerell, David P.; and Rogge, Danny G., 4,712,813, Cl. 285-250.000.
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O'Halloran, P. Joseph; Laauwe, Robert H.; Roggenburg, Stanley L., Jr.; and Tully, Michael E., 4,634,022, Cl. 222-95.000.
Roggenburk, Earl G. Rotary internal combustion engine. 4,662,329, 5-5-87, Cl. 123-236.000.
Roggendorf, Peter; and Buchmann, Rainer, to Petri AG. Control system for electrically operated components of an automotive vehicle. 4,697,092, 9-29-87, Cl. 307-10.00R.
Roggendorf, Peter, to GSE Electronic Systems, Inc. Method and apparatus for transferring an information code onto the synchronization track of a video tape and a video tape produced according to said method. 4,703,311, 10-27-87, Cl. 340-347.0DD.
Roggendorff, Martin, to Klockner-Humboldt-Deutz Aktiengesellschaft. Air-cooled internal combustion engine. 4,696,262, 9-29-87, Cl. 123-41.690.
Roggenkamp, Steven K.: *See*—
Kelm, James S.; Ludwig, Arthur L.; Maclin, Harvey M.; Roggenkamp, Steven K.; and Wakeman, Thomas G., 4,688,310, Cl. 29-156.70R.
Roggero, Arnaldo, to Enichem Elastomeri S.p.A. Certain alkali metal bis-phenethyl or tris-phenethyl-pyridines useful as multifunctional anionic initiators. 4,680,407, 7-14-87, Cl. 546-348.000.
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Roggwiller, Peter; and Sittig, Roland, to BBC Brown, Boveri & Company, Limited. Semiconductor device having a blocking capability in only one direction. 4,642,669, 2-10-87, Cl. 357-52.000.
Rogic, Milorad M.: *See*—
Swerdloff, Michael D.; Rogic, Milorad M.; and Hendrickson, Larry L., 4,696,693, Cl. 71-28.000.

Rogier, Edgar R., to Henkel Corporation. High molecular weight products. 4,642,391, 2-10-87, Cl. 568-624.000.

Rogier, Edgar R.: *See*—
Gladfelter, Elizabeth J.; and Rogier, Edgar R., 4,649,214, Cl. 560-120.000.

Rogier, Serge; and Guigonis, Jacques, to Societe Europeenne des Produits Refractaires. Heat exchangers molded from refractory material. 4,711,298, 12-8-87, Cl. 165-165.000.

Rogina, Eugene L.: *See*—
Powers, Debora L.; Powers, John G.; and Rogina, Eugene L., 4,697,614, Cl. 137-337.000.

Rogler, Wolfgang: *See*—
Ihlein, Walter; and Rogler, Wolfgang, 4,636,556, Cl. 528-53.000.

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Rogner, Ludwig, to Siemens Aktiengesellschaft. High-frequency seal for casing coverings and doors. 4,642,416, 2-10-87, Cl. 174-35.0GC.

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Papajewski, Gerd H.; and Rogner, Michael G., 4,699,302, Cl. 223-38.000.

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Rognon, Armand. Safety exhaust system with switching for an internal combustion engine. 4,674,278, 6-23-87, Cl. 60-295.000.

Rognsvoog, Albert J., Jr. One-piece thermoformed dispensing packaging. 4,700,835, 10-20-87, Cl. 206-411.000.

Rogo, Casimir, to Teledyne Industries, Inc. Sleeve seal. 4,650,397, 3-17-87, Cl. 415-139.000.

Rogoff, Martin H.; and Shieh, Tsuong R., to Sandoz Pharmaceuticals Corp. Virus insecticide compositions. 4,716,039, 12-29-87, Cl. 424-93.000.

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Rogowski, Gerald W.; and Bell, Frank H., to Morton Thiokol, Inc. Spooled propellant charge and method of manufacture thereof. 4,660,475, 4-28-87, Cl. 102-284.000.

Rogowski, Gregory S.: *See*—
Brown, Donald L.; Weissert, James T.; Bhakuni, Roop S.; and Rogowski, Gregory S., 4,654,253, Cl. 428-229.000.

Rogowsky, York, to Licentia Patent-Verwaltungs-GmbH. Method and circuit arrangemeant for operating a high voltage direct current line between two alternating voltage systems. 4,649,466, 3-10-87, Cl. 363-35.000.

Rogstadius, John F. I.; Lindstrom, Bengt O.; and Persson, Svens A. R., to Telefonaktiebolaget LM Ericsson. Fibre joint with optical attenuation. 4,666,243, 5-19-87, Cl. 350-96.210.

Rogus, Thomas E. Bearing protector. 4,659,240, 4-21-87, Cl. 384-145.000.

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Roha, Max E., to Aluminum Company of America. Reacting alumina hydrate sol and an organic material to form a stable monolithic gel. 4,714,567, 12-22-87, Cl. 252-315.200.

Rohan, John A.: *See*—
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Rohan, Kieran P. Means for simulating a topographical area. 4,685,884, 8-11-87, Cl. 434-152.000.

Rohatgi, Naresh K.: *See*—
Hsu, George C.; and Rohatgi, Naresh K., 4,664,944, Cl. 427-87.000.

Rohatyn, Frederick. Power factor correction system. 4,672,298, 6-9-87, Cl. 323-208.000.

Rohde, Axel: *See*—
Schilling, Albert; Schuttler, Edwin; Schmekel, Karl-Wilhelm; and Rohde, Axel, 4,702,565, Cl. 350-531.000.

Rohde, Bruno. Device for stabilizing magnetic zones. 4,694,271, 9-15-87, Cl. 335-302.000.

Rohde, Dieter; and Praetorius, Siegfried, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic vehicle tire. 4,671,333, 6-9-87, Cl. 152-532.000.

Rohde, Guenter: *See*—
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Rohde, Kenneth A. Tree felling, log cutting and splitting machine. 4,641,694, 2-10-87, Cl. 144-3.00K.

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Rohde, Robert R.; and Bedard, Joseph J., to Universal Instruments Corporation. Surface locating and dispensed dosage sensing method and apparatus. 4,661,368, 4-28-87, Cl. 427-8.000.

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Leikus, Vincent C., 4,672,308, Cl. 324-77.00B.

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Bonitz, Jorg; Entenmann, Robert; Miller, Bernhard; Rauch, Hans; Rohde, Siegfried; Unland, Stefan; and Viess, Walter, 4,700,677, Cl. 123-425.000.

Rohde, Steve M., to General Motors Corporation. Energy storage and retrieval system for a vehicle. 4,663,935, 5-12-87, Cl. 60-414.000.

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Roht, Wolfgang, to Siemens Aktiengesellschaft. Intrinsically safe power supply with a current regulator. 4,646,219, 2-24-87, Cl. 363-21.000.

Rohleder, Klaus; and Stark, Willi. Woven textile fabrics, namely velours, and method for its manufacture. 4,702,949, 10-27-87, Cl. 428-92.000.

Rohlfing, Raymond G., to Phillips Petroleum Company. Catalyst feed system. 4,690,804, 9-1-87, Cl. 422-219.000.

Rohling, Bernd-Holger: *See*—
Topic, Aloyzija; and Rohling, Bernd-Holger, 4,677,420, Cl. 340-52.00A.

Rohling, Hermann: *See*—
Minker, Manfred; and Rohling, Hermann, 4,649,394, Cl. 342-94.000.

Rohling, Holmer, to Dragerwerk Aktiengesellscaft. Mixing and proportioning device for flowing media. 4,699,173, 10-13-87, Cl. 137-614.200.

Rohloff, Bernhard. Roller chain for chain drives. 4,704,099, 11-3-87, Cl. 474-231.000.

Rohm GmbH: *See*—
Besecke, Siegmund; Schroeder, Guenter; Siegert, Hermann-Josef; and Gaenzler, Wolfgang, 4,647,696, Cl. 562-606.000.
Besecke, Siegmund; Liebler, Ralf; Hohage, Heinz-Juergen; and Schroeder, Guenter, 4,652,656, Cl. 548-261.000.
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Bitsch, Willy, 4,665,104, Cl. 521-117.000.
Kraemer, Dieter; Stol, Werner; Markert, Gerhard; Suetterlin, Norbert; and Feil, Cornelia, 4,710,525, Cl. 523-201.000.
Lehmann, Klaus; Dreher, Dieter; and Goetz, Harry, 4,644,031, Cl. 524-501.000.
Liebler, Ralf; Munzer, Manfred; Quis, Peter; and Legierse, Petrus E. J., 4,663,199, Cl. 427-304.000.
Liebler, Ralf; and Albrecht, Klaus, 4,680,359, Cl. 526-309.000.
Pennewiss, Horst; Schweder, Roland; and Knoell, Helmut, 4,665,121, Cl. 524-457.000.
Pennewiss, Horst; Schweder, Roland; and Tschepat, Wolfgang, 4,677,151, Cl. 524-501.000.
Pfleiderer, Ernst; Taeger, Tilman; and Wick, Gertrud, 4,636,222, Cl. 8-94.160.
Plainer, Hermann; Sproessler, Bruno; and Uhlig, Helmut, 4,684,525, Cl. 426-16.000.
Puehler, Horst, 4,704,081, Cl. 425-399.000.
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Schnee, Reiner; Pennewiss, Horst; and Markert, Gerhard, 4,640,954, Cl. 524-516.000.
Siegert, Hermann; and Ude, Werner, 4,673,730, Cl. 528-491.000.
Ude, Werner; Knebel, Joachim; and Schroeder, Guenter, 4,696,993, Cl. 528-167.000.
Ude, Werner; Besecke, Siegmund; Riemann, Achim; and Schroeder, Guenther, 4,698,448, Cl. 568-14.000.
Vetter, Heinz, 4,707,393, Cl. 428-178.000.
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Wenzel, Franz; Arndt, Peter J.; and Siol, Werner, 4,709,000, Cl. 526-320.000.

Rohm GmbH Chemische Fabrik: *See*—
Asmussen, Frithjof; Gaenzler, Wolfgang; and Wunderlich, Winfried, 4,656,119, Cl. 430-327.000.
Fink, Herbert; Hubner, Klaus; and Kniese, Heiner, 4,689,264, Cl. 428-290.000.
Krajec, Otmar; and Hellmann, Walter, 4,664,672, Cl. 8-472.000.
Langerbeins, Klaus; Schroder, Gunther; and Boehm, Hans-Peter, 4,713,483, Cl. 560-204.000.
Lehmann, Klaus; Dreher, Dieter; and Goetz, Harry, 4,705,695, Cl. 427-3.000.
Schlosser, Fritz; Arndt, Peter J.; Mueller, Manfred; and Janssen, Lothar, 4,672,105, Cl. 560-217.000.
Siol, Werner; Arnold, Wolfgang; and Vetter, Heinz, 4,647,489, Cl. 428-119.000.
Sutterlin, Norbert; Blitz, Hans-Dieter; Mager, Theodor; Jagsch, Karl-Heinz; and Tessmer, Dieter, 4,713,434, Cl. 526-62.000.

Rohm, Gunter H. Drill chuck for tapping and drilling. 4,645,387, 2-24-87, Cl. 408-127.000.

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Rohm, Gunter H. Lockable and self-tightening hammer-drill chuck. 4,700,956, 10-20-87, Cl. 279-19.400.

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Amick, David R., 4,656,057, Cl. 427-245.000.
Amick, David R.; Hann, William M.; and Natoli, John, 4,711,725, Cl. 210-701.000.
Bayer, Horst O.; and Swithenbank, Colin, 4,662,935, Cl. 71-121.000.
Beckley, Ronald S.; Randow, Rodney L.; and Swift, Graham, 4,683,100, Cl. 260-513.00R.
Carlson, Glenn R., 4,714,492, Cl. 71-94.000.
Carson, William G., 4,713,268, Cl. 428-35.000.
Chan, Hak-Foon, 4,675,316, Cl. 514-184.000.
Chang, Ching-Jen; and Stevens, Travis E., 4,663,385, Cl. 524-523.000.
Chao, Yen-Yau H., 4,636,546, Cl. 524-507.000.
Clikeman, Richard R.; Cinoman, Douglas S.; and Weiler, Ernst D., 4,650,824, Cl. 524-457.000.
Dupre, Jean; and Keenan, Andrea C., 4,678,596, Cl. 252-174.240.
Fujimoto, Ted T., 4,661,145, Cl. 71-92.000.
Jacobson, Richard M., 4,663,341, Cl. 514-403.000.
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Nichols, Richard W.; Zabrodski, William J.; and Mitra, Abhijit, 4,705,902, Cl. 568-810.000.
Patterson, Dennis R., 4,693,742, Cl. 71-86.000.
Patterson, Dennis R., 4,707,181, Cl. 71-92.000.
Redlich, George H.; and Novak, Ronald W., 4,677,003, Cl. 427-373.000.
Rothman, Alan M.; and Crabb, Charles C., 4,652,530, Cl. 436-92.000.
Rounds, Nicholas A., 4,637,904, Cl. 264-1.400.
Schindler, Frederick J., 4,698,385, Cl. 524-733.000.
Sperry, Peter R.; and Chung, Chao-Jen, 4,647,610, Cl. 524-377.000.
Rohm, Martin L.: *See*—
Kulzer, Darrell A.; and Rohm, Martin L., 4,634,005, Cl. 206-477.000.
Rohm, Robert F.; and Bushman, Ronald C., to Brown International Corporation. Apparatus for automatically cleaning extrusion screens in juice finishing machines and the like. 4,705,055, 11-10-87, Cl. 134-57.00R.
Rohner, Gerhard; Schweikert, Willi; and Ticks, Gerd-Heinz, to Carl Freudenberg, Firma. Air spring. 4,678,203, 7-7-87, Cl. 280-707.000.
Rohner, Joachim, to W. Schlafhorst & Co. Method and device for producing a thread connection by splicing. 4,653,258, 3-31-87, Cl. 57-22.000.
Rohner, Joachim, to Zinser Textilmaschinen GmbH. Spinning machine. 4,669,259, 6-2-87, Cl. 57-305.000.
Rohosky, Thomas L.; and Swidwa, Kenneth J., to Westinghouse Electric Corp. Reactor refueling machine simulator. 4,699,753, 10-13-87, Cl. 376-268.000.
Rohr, Franz, to Siemens Aktiengesellschaft. Method for loading a container with rods of nuclear reactor fuel assemblies containing nuclear fuel or neutron absorber material, and device for performing the method. 4,635,427, 1-13-87, Cl. 53-475.000.
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Rohr, Gustav; and Nohl, Gerd, to Frankl & Kirchner GmbH & Co KG. Device for detecting an overlapping edge of material on a sewing machine. 4,696,246, 9-29-87, Cl. 112-272.000.
Rohr, Gustav; and Vetter, Karl-Heinz, to Frankl & Kirchner GmbH & Co KG. Rotary speed ratio control for a multiple rotary drive system for a textile-working machine. 4,707,643, 11-17-87, Cl. 318-77.000.
Rohr Industries, Inc.: *See*—
Norris, Brian, 4,705,207, Cl. 228-194.000.
Norris, Brian, 4,706,872, Cl. 228-194.000.
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Rethwish, William F.; and Schneider, Samuel, 4,642,436, Cl. 219-78.110.
Rosenthal Herman A., 4,688,745, Cl. 244-134.00R.
Stephens, Gerald E., 4,671,841, Cl. 156-292.000.
Stoneman, Everett L., 4,712,831, Cl. 279-123.000.
Rohr, Lorenz, to NCR Corporation. Extensible height-adjustable swivel arm for supporting a display or the like. 4,708,312, 11-24-87, Cl. 248-280.100.
Rohr, Marcel, to K-Tron International, Inc. Vibratory material feeder with vibrating gate. 4,712,669, 12-15-87, Cl. 198-771.000.
Rohr, Martin: *See*—
Naegeli, Peter; and Rohr, Martin, 4,669,490, Cl. 131-276.000.
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Rohr, Thomas-Markus; and Kuhn, Jakob, to Ciba-Geigy AG. Polyazo dyestuffs having high UV absorption. 4,701,525, 10-20-87, Cl. 534-678.000.
Rohr, William A.: *See*—
Hemler, Paul F.; and Rohr, William A., 4,640,499, Cl. 267-160.000.
Rohr, Wolfgang: *See*—
Hamprecht, Gerhard; Rohr, Wolfgang; and Varwig, Juergen, 4,673,740, Cl. 544-92.000.
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Plath, Peter; Rohr, Wolfgang; Schwendemann, Volker; and Wuerzer, Bruno, 4,636,246, Cl. 71-92.000.
Sauerwald, Manfred; Dockner, Toni; Rohr, Wolfgang; and Reissenweber, Gernot, 4,670,567, Cl. 549-13.000.
Rohra, Alois; and Wildner, Walter, to MTU Motoren-und Turbinen-Union Munchen GmbH. Bearing for a fluid flow engine and method for damping vibrations of the engine. 4,693,616, 9-15-87, Cl. 384-99.000.
Rohrbach, Peter; and Benzak, William, to SI Handling Systems, Inc. Vehicle accumulation system. 4,691,641, 9-8-87, Cl. 104-166.000.
Rohrbein, Jurgen, to Gebruder Welger GmbH & Co. Kommanditgesellschaft. Device for stacking rectangular bales of stalky material. 4,708,565, 11-24-87, Cl. 414-86.000.
Rohrer, David C.: *See*—
Dalebout, William T.; Vassoughi, Sohrab; Martinell, William J.; Rohrer, David C.; Martinell, Steven W.; and Marchant, Robert L., 4,684,126, Cl. 272-134.000.
Rohrer, Edwin H., to Westinghouse Electric Corp. Apparatus for adjustably mounting ultrasonic testing devices. 4,641,532, 2-10-87, Cl. 73-637.000.
Rohrer, George A.; and McMillan, Larry, to Ramtron Corporation. Monolithic semiconductor integrated circuit ferroelectric memory device, and methods of fabricating and utilizing same. 4,707,897, 11-24-87, Cl. 29-25.420.
Rohrer, George A.: *See*—
McMillan, Larry; Paz de Araujo, Carlos; and Rohrer, George A., 4,713,157, Cl. 204-192.110.
Rohrer, Michael D.; and Bulard, Ronald A., to University of Oklahoma, The Board of Regents for the. Method for sterilizing contact lenses. 4,671,935, 6-9-87, Cl. 422-21.000.
Rohrich, Ellen A.: *See*—
McGuire, Douglas R.; McGuire, Sherry L.; and Rohrich, Ellen A., 4,644,598, Cl. 5-497.000.
Rohrig, Lothar: *See*—
Proksa, Ferdinand; Sulzbach, Hans-Michael; Rohrig, Lothar; and Fuhrbach, Hans-Wilhelm, 4,693,448, Cl. 249-162.000.
Rohrle, Josef, to Siemens Aktiengesellschaft. Control apparatus for a multiple-axis machine tool. 4,684,862, 8-4-87, Cl. 318-568.000.
Rohrle, Josef: *See*—
Gunkel, Hans-Dieter; and Rohrle, Josef, 4,701,878, Cl. 364-900.000.
Rohrman, Albert C., Jr.: *See*—
Kokotailo, George T.; and Rohrman, Albert C., Jr., 4,703,025, Cl. 502-60.000.
Rohrman, Henry, to Schlegel Corporation. Panel mounting building wall construction. 4,715,153, 12-29-87, Cl. 52-213.000.
Rohsler, Ivor C.; and Clark, Anthony F. C., to Lucas Industries Public Limited Company. Semi-conductor assembly. 4,642,671, 2-10-87, Cl. 357-79.000.
Rohulich, John J.: *See*—
Seevers, Daniel B.; and Rohulich, John J., 4,694,725, Cl. 84-1.270.
Rohwedder, Arnim: *See*—
Wessels, Gerd; and Rohwedder, Arnim, 4,697,579, Cl. 128-24.00A.
Rohwedder, Helmut, to Deere & Company. Drive arrangement for a combine harvester unloading auger. 4,714,398, 12-22-87, Cl. 414-503.000.
Rohweder, David S.: *See*—
Jackson, Gerald W.; and Rohweder, David S., 4,683,998, Cl. 73-669.000.
Roig, Francisco; and Spector, George. Mini pack of cigarettes. 4,667,688, 5-26-87, Cl. 131-329.000.
Roig, Richard R.: *See*—
Morgan, Tamara M.; Roig, Richard R.; and Hrehovcik, Michael, 4,700,850, Cl. 211-131.000.
Roiko, Jury P.: *See*—
Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Danilyak, Sergei N.; Gavva, Viktor M.; Roiko, Jury P.; and Nushko, Valery A., 4,716,273, Cl. 219-130.010.
Vasiliev, Vsevolod V.; Danilyak, Sergei N.; Levina, Anna I.; Nushko, Valery A.; and Roiko, Jury P., 4,689,021, Cl. 434-234.000.
Romestad, Gerald C., to Ashworth Bros., Inc. Conveyor belt drive sprocket system. 4,685,557, 8-11-87, Cl. 198-834.000.
Roizenblatt, Jaime. Pneumatic module for intraocular microsurgery. 4,650,460, 3-17-87, Cl. 604-22.000.
ROJ Electrotex S.p.A.: *See*—
Ghiardo, Fiorenzo; and Maina, Bruno, 4,638,840, Cl. 139-452.000.
Rojey, Alexandre; and Ramet, Claude, to Institut Francais du Petrole. Process for producing heat and/or cold by means of a compression engine operating with a mixed working fluid. 4,680,939, 7-21-87, Cl. 62-114.000.
Rojey, Alexandre: *See*—
Grehier, Alain; Rojey, Alexandre; and Benoist, Francois, 4,665,974, Cl. 165-165.000.
Rojkind, Marcos: *See*—
Reid, Lola C. M.; and Rojkind, Marcos, 4,642,292, Cl. 435-240.000.
Rokach, Joshua: *See*—
Atkinson, Joseph G.; Guindon, Yvan; Belanger, Patrice C.; and Rokach, Joshua, 4,634,766, Cl. 544-34.000.
Cragoe, Edward J., Jr.; Rooney, Clarence S.; and Rokach, Joshua, 4,699,917, Cl. 514-381.000.
Fortin, Rejean; Lau, Cheuk K.; Guindon, Yvan; Rokach, Joshua; and Yoakim, Christiane, 4,666,907, Cl. 514-223.000.
Frenette, Richard; Rokach, Joshua; Kakushima, Masatoshi; and Young, Robert N., 4,683,325, Cl. 560-10.000.
Gillard, John; Rokach, Joshua; and Belanger, Patrice C., 4,667,055, Cl. 562-426.000.

Girard, Yves; Rokach, Joshua; and Hamel, Pierre, 4,663,307, Cl. 514-2.000.

Lau, Cheuk K.; Yoakim, Christiane; Rokach, Joshua; Fortin, Rejean; and Guindon, Yvan, 4,667,032, Cl. 544-35.000.

Young, Robert N.; and Rokach, Joshua, 4,666,928, Cl. 514-350.000.

Rokicki, Stanley. Sliding door assembly. 4,662,110, 5-5-87, Cl. 49-220.000.

Rokicki, Stanley. Sliding door assembly with mullion lock. 4,691,474, 9-8-87, Cl. 49-220.000.

Rokita, Stephen, to R.J. Tool Design, Inc. Combination fastener remover and dimpler. 4,658,457, 4-21-87, Cl. 7-170.000.

Rokkaku, Tadashi; and Sugitani, Kazeushi, to Mitsubishi Jukogyo Kabushiki Kaisha. Chip disposer. 4,664,572, 5-12-87, Cl. 409-137.000.

Rokkaku, Tadashi: *See*—
Noguchi, Takayo; Togawa, Yoichi; Nishimoto, Tsuneo; Tonohara, Yoshiharu; Rokkaku, Tadashi; Nakai, Seigo; Araki, Michio; and Kitano, Kahei, 4,695,209, Cl. 409-42.000.

Rokkanen, Pentti: *See*—
Tormala, Pertti; Rokkanen, Pentti; Kilpikari, Jyrki; Patiala, Hannu; Vainionpaa, Seppo; Vihtonen, Kimmo; and Mero, Matti, 4,655,203, Cl. 128-92.0YP.

Rokksku, Tadashi; Houzouji, Akira; Omori, Shunji; and Toto, Takayuki, to Mitsubishi Jukogyo Kabushiki Kaisha. Advanced memory type profiling control method for a machine tool. 4,702,652, 10-27-87, Cl. 409-84.000.

Rokni, Mordechai; and Flusberg, Allen M., to Avco Corporation. Method of and apparatus for correction of laser beam phase front aberrations. 4,673,257, 6-16-87, Cl. 350-354.000.

Rokni, Mordechai; and Flusberg, Allen M., to AVCO Everett Research Laboratory, Inc. Gaseous non linear dispersion laser beam control. 4,714,902, 12-22-87, Cl. 332-7.510.

Rokon International, Inc.: *See*—
Hamilton, Mark, 4,702,340, Cl. 180-224.000.

Rokos, George H. S., to STC plc. Voltage follower. 4,659,998, 4-21-87, Cl. 330-260.000.

Rokos, George H. S., to Standard Telephones and Cables Public Limited Company. Comparator for use in astable multivibrator. 4,663,600, 5-5-87, Cl. 331-111.000.

Rokuda, Morito: *See*—
Doi, Nobukazu; Izumita, Morishi; Mita, Seiichi; Eto, Yoshizumi; and Rokuda, Morito, 4,653,052, Cl. 371-39.000.

Izumita, Morishi; Mita, Seiichi; Umemoto, Masuo; Kanada, Hidehiro; and Rokuda, Morito, 4,661,956, Cl. 371-38.000.

Mita, Seiichi; Izumita, Morishi; Michikawa, Yuichi; Katayama, Hitoshi; Shiono, Hiroshi; Takagi, Hitoshi; Rokuda, Morito; and Doi, Nobukazu, 4,682,115, Cl. 328-164.000.

Umemoto, Masuo; Eto, Yoshizumi; Kanada, Hidehiro; and Rokuda, Morito, 4,700,240, Cl. 360-48.000.

Umenoto, Masuo; Mita, Seiichi; Izumita, Morishi; Michikawa, Yuuichi; Rokuda, Morito; Katayama, Hitoshi; and Kanada, Hidehiro, 4,670,797, Cl. 358-310.000.

Rokugawa, Kyuji; and Tamayama, Yasuko, to Kabushiki Kaisha Toshiba. Immunoassays involving complement lysing of chromophore containing microcapsules. 4,714,672, 12-22-87, Cl. 435-7.000.

Rokus, B. Joseph: *See*—
Frahm, Carl E.; and Rokus, B. Joseph, 4,693,400, Cl. 222-518.000.

Rokushima, Yasuo: *See*—
Katase, Haruhisa; Rokushima, Yasuo; and Yanagi, Tosio, 4,704,731, Cl. 383-120.000.

Rokuta, Katsutoshi: *See*—
Okada, Shigeru; and Rokuta, Katsutoshi, 4,653,491, Cl. 128-138.00A.

Okada, Shigeru; and Rokuta, Katsutoshi, 4,704,108, Cl. 604-361.000.

ROL Industries Inc.: *See*—
Freeman, Jerry H., 4,645,962, Cl. 310-232.000.

Rol, Pascal, to Lasag AG. Contact lens for ophthalmoscopy and ophthalmotherapy by means of laser beam. 4,664,490, 5-12-87 Cl. 351-219.000.

Roland Corp.: *See*—
Hoshiai, Atsushi; and Endo, Hiroyuki, 4,715,257, Cl. 84-1.010.

Roland, David R.; Johnston, Jerry A.; and Pomplun, William S., to Kimberly-Clark Corporation. Apparatus for activating heat shrinkable ribbon on disposable garments and other articles. 4,665,306, 5-12-87, Cl. 219-388.000.

Roland Kabushiki Kaisha: *See*—
Kikumoto, Tadao; and Murakami, Isato, 4,694,724, Cl. 84-1.030.

Sakai, Tadao, 4,633,750, Cl. 84-1.100.

Roland, Leonard A.; Lockwood, Larry R.; and Grellmann, H. Erwin, to Tektronix, Inc. Broad band, thin film attenuator and method for construction thereof. 4,670,723, 6-2-87, Cl. 333-81.00A.

Roland, Leonard A.: *See*—
Grellmann, H. Erwin; and Roland, Leonard A., 4,686,492, Cl. 333-33.000.

Grellmann, Heinz E.; and Roland, Leonard A., 4,695,811, Cl. 333-105.000.

Roland, Michel: *See*—
Hennebert, Pierre; Gillard, Jean; and Roland, Michel, 4,637,916, Cl. 422-36.000.

Roland, Robert D.: *See*—
Knapp, Alfons; Roland, Robert D.; and Hutto, Joe D., 4,696,322, Cl. 137-218.000.

Rolando, Aurelio: *See*—
D'Andolfo, Francesco; Grampa, Fulvio; Mazzacchera, Giuseppe; and Rolando, Aurelio, 4,675,142, Cl. 264-103.000.

Rold, Michael D.: *See*—
Bickelhaupt, Roger; and Rold, Michael D., 4,713,059, Cl. 604-171.000.

Swendson, David L.; Elson, Edward E.; Lieber, Clement; and Rold, Michael D., 4,651,751, Cl. 128-786.000.

Roley, Daniel G.: *See*—
Bernhagen, James R.; Crabb, Elmer R.; Murphy, Marilyn S.; Roley, Daniel G.; St. Germain, Gene R.; and Tunnell, James H., 4,700,794, Cl. 180-6.440.

Rolf Ahlbergs Mekaniska Verkstad AB: *See*—
Danielsson, Jan-Erik, 4,661,035, Cl. 414-550.000.

Rolf, David, to LecTec Corporation. Medical electrode for monitoring and diagnostic use. 4,674,512, 6-23-87, Cl. 128-640.000.

Rolf, Helmut, to Leonhardy GmbH. Terminal connection pin for solderless connections. 4,698,026, 10-6-87, Cl. 439-82.000.

Rolf, Meinhard; and Neeff, Rutger, to Bayer Aktiengesellschaft. Azine pigments, processes for their preparation, and their use. 4,666,526, 5-19-87, Cl. 106-309.000.

Rolf, Meinhard; Neeff, Rutger; and Muller, Walter, to Bayer Aktiengesellschaft. Anthraquinone-azo pyridone-containing compounds. 4,709,019, 11-24-87, Cl. 534-655.000.

Rolf Peddinghaus: *See*—
Wepner, Joachim; and Wehgenroth, Kurt, 4,644,836, Cl. 83-698.000.

Rolfe, John L.: *See*—
Rakoczynski, Randolph W.; Odojewski, Stephen S.; and Rolfe, John L., 4,696,599, Cl. 405-129.000.

Rolfe, Jonathan L.: *See*—
Szycher, Michael; Dempsey, Donald J.; and Rolfe, Jonathan L., 4,638,043, Cl. 528-75.000.

Rolfe, Richard: *See*—
Gelardi, Anthony L.; Pruneau, Diane; and Rolfe, Richard, 4,655,408, Cl. 242-55.19A.

Rolfe, Robert M.; and Falkenstrom, Lee J., to Harris Corporation. Programmable integrated circuit fault detection apparatus. 4,703,484, 10-27-87, Cl. 371-25.000.

Rolfs, John C., deceased; and by Rolfs, Margaret H., executrix. Linearizer frequency discriminator for frequency modulated radar transmitters. 4,692,766, 9-8-87, Cl. 342-200.000.

Rolfs, Margaret H., executrix: *See*—
Rolfs, John C., deceased; and Rolfs, Margaret H., executrix, 4,692,766, Cl. 342-200.000.

Roling, Franz: *See*—
Grundken, Dieter; Redder, Manfred; Roling, Franz; Sauer, Michael; and Schoop, Gunther-Dietmar, 4,658,952, Cl. 198-735.000.

Schoop, Gunther-Dietmar; Roling, Franz; Grundken, Dieter; Redder, Manfred; Schewinski, Hartmut; and Temme, Helmut, 4,667,811, Cl. 198-735.000.

Roling, Paul V.; Veazey, Richard L.; and Aylward, David E., to Cities Service Oil and Gas Corporation. Process for polymerizing a monomer charge. 4,665,138, 5-12-87, Cl. 526-86.000.

Roling, Paul V., to Betz Laboratories, Inc. Method for prevention of fouling in a basic solution by addition of specific nitrogen compounds. 4,673,489, 6-16-87, Cl. 208-289.000.

Roling, Paul V.: *See*—
Pennington, B. Timothy; Roling, Paul V.; and Hsieh, John T. T., 4,665,140, Cl. 526-86.000.

Roll Form Products, Inc.: *See*—
Karoubas, Konstantinos I., 4,675,238, Cl. 428-599.000.

Roll, Klaus: *See*—
Deppisch, Gerd; Roll, Klaus; and Schuller, Karl-Heinz, 4,652,358, Cl. 204-298.000.

Roll, Ulrich: *See*—
Fahnrich, Hans-Jurgen; Roll, Ulrich; and Statnic, Eugen, 4,647,817, Cl. 315-104.000.

Roll, Walter F.; and Thedford, Anthony R., to Texas Instruments Incorporated. Infrared scanner for forward loading infrared device (FLIR). 4,658,140, 4-14-87, Cl. 250-347.000.

Roll, Walter F., to Texas Instruments Incorporated. Apparatus for interlacing infrared energy. 4,659,932, 4-21-87, Cl. 250-347.000.

Roll, Walter F.; and Campbell, Michael, to Texas Instruments Incorporated. Four position interlacing apparatus. 4,690,486, 9-1-87, Cl. 350-6.600.

Rolla, Gunnar. Aqueous dental preparation containing fluoride ions and the use thereof. 4,714,608, 12-22-87, Cl. 424-52.000.

Rolland, Albert L.: *See*—
Le Corre, Loic; and Rolland, Albert L., 4,638,200, Cl. 310-156.000.

Rollat, Alain: *See*—
Martin, Michel; and Rollat, Alain, 4,676,957, Cl. 423-21.500.

Sabot, Jean-Louis; and Rollat, Alain, 4,647,438, Cl. 423-21.500.

Rolle, Reno R. Ground cover and coverlet. 4,703,528, 11-3-87, Cl. 5-417.000.

Rolle, Thomas E.; Nebel, David J.; Shulan, John L.; and Liljestrom, William P., to T.D.J. Co., Inc. Screen separator method for foundry waste materials. 4,648,560, 3-10-87, Cl. 241-24.000.

Roller Barons, Inc.: *See*—
Hamill, Steve; and Knight, Arthur A., 4,666,168, Cl. 280-11.200.

Hamill, Steve; and Knight, A. A., 4,666,169, Cl. 280-11.230.

Roller, David P., Jr.: *See*—
Saporito, Michael J.; Deleo, Salvatore J.; Lewis, Paul A.; Curtis, Albert E., III; D'Arienzo, Joseph; and Roller, David P., Jr., 4,663,727, Cl. 364-551.000.

Roller, Durward W.: *See*—
Knapp, George P.; Higgins, Bobby W.; and Roller, Durward W., 4,709,337, Cl. 364-468.000.

Roller, Erling: *See*—
Clark, Peter J.; Hudd, Anthony W.; Bloor, Stephen T.; and Roller, Erling, 4,640,335, Cl. 164-440.000.
Roller, George J., to Xerox Corporation. Front air knife top vacuum corrugation feeder. 4,678,176, 7-7-87, Cl. 271-94.000.
Roller, Hanno: *See*—
Starck, Roland; and Roller, Hanno, 4,671,072, Cl. 62-140.000.
Roller, Hermann: *See*—
Lehner, August; Kohl, Albert; Roller, Hermann; Balz, Werner; Koester, Eerhard; and Sommermann, Friedrich, 4,656,093, Cl 428-403.000.
Melzer, Milena; Roller, Hermann; Schneider, Norbert; Fitterer, Horst; and Munzner, Wulf, 4,645,723, Cl. 428-694.000.
Roller, Johannes. Projectile-casting ingot mold. 4,687,045, 8-18-87, Cl. 164-262.000.
Roller, Robert A.; and Roller, Warren L. Optical viewing apparatus with two mirrors consecutively reflecting the line of sight. 4,679,916, 7-14-87, Cl. 350-623.000.
Roller, Sibel: *See*—
Bennetto, Hugh P.; Delaney, Gerard M.; Mason, Jeremy R.; Stirling, John L.; Roller, Sibel; Thurston, Christopher F.; and White, Donald R., Jr., 4,652,501, Cl. 429-2.000.
Roller, Warren L.: *See*—
Roller, Robert A.; and Roller, Warren L., 4,679,916, Cl. 350-623.000.
Roller, Wilhelm: *See*—
Lechner, Helmut; and Roller, Wilhelm, 4,688,620, Cl. 160-348.000.
Rollett, Andrew C.: *See*—
Morris, David B.; Rollett, Andrew C.; and Roberts, Donald M., 4,714,177, Cl. 222-58.000.
Rollhaus, Philip; and Endo, Yukio, to Quixote Corporation. Keyboard entry system. 4,638,306, 1-20-87, Cl. 340-365.00R.
Rollhaus, Philip E.; and Endo, Yukio, to Quixote Corporation. Keyboard entry system. 4,694,280, 9-15-87, Cl. 340-365.00R.
Rollich, Jurgen: *See*—
John, Gunter; Kretschmer, Karl-Heinz; and Rollich, Jurgen, 4,714,204, Cl. 241-55.000.
Rollin, Carl; and Rufenacht, Hanspeter, to BTA Boden-Technik AG. Support device and wall for a cable duct in a cavity lining floor. 4,683,690, 8-4-87, Cl. 52-126.200.
Rollin, Claude: *See*—
Dromard, Adrien; Exertier, Michel; Rollin, Claude; Tayot, Jean-Louis; and Tardy, Michel, 4,675,384, Cl. 530-364.000.
Rollin, Jean: *See*—
Lauzier, Rene; Rollin, Jean; Choquelle, Jean; Dumas, Gerard; Breat, Francois; Rousson, Maurice; and Defour, Paule, 4,705,286, Cl. 280-281.00R.
Rollins, Fred P.; and Glass, James S., to United States of America, National Aeronautics and Space Administration. Self-contained, single-use hose and tubing cleaning module. 4,635,663, 1-13-87, Cl. 134-93.000.
Rollins, Jack; Coppin, William; and Karabin, Thaddeus, to Maxon Corporation. Positive pullback synchro valve actuator. 4,635,898, 1-13-87, Cl. 251-229.000.
Rollins, Richard: *See*—
Lynn, Kenneth M.; and Rollins, Richard, 4,673,397, Cl. 604-251.000.
Rollmann, Louis D.: *See*—
Hoskin, Dennis H.; and Rollmann, Louis D., 4,660,640, Cl. 166-270.000.
Rollo, Edward J., Jr.: *See*—
Curry, Jay M.; Gray, Edward R.; Davis, Edward L.; Rollo, Edward J., Jr.; and Long, Paul D., Jr., 4,664,307, Cl. 228-145.000.
Rollot, Pierre; Pierrat, Gerard; and Le Scour, Claude, to Union Siderurgique du Nord et de l'Est de la France (USINOR). Cooling plates for blast-furnaces. 4,669,708, 6-2-87, Cl. 266-193.000.
Rolls-Royce: *See*—
Atkinson, John H. M., 4,655,687, Cl. 416-193.00A.
Hamblett, Martin; and Livsey, Duncan J., 4,696,621, Cl. 415-191.000.
Scrace, Harold A., 4,660,767, Cl. 239-265.350.
Winter, John L., 4,702,670, Cl. 415-116.000.
Rolls-Royce Inc.: *See*—
Szuminski, Gary F.; and Nightingale, Douglas J., 4,713,935, Cl. 60-229.000.
Rolls-Royce Limited: *See*—
Hall, John M., 4,638,946, Cl. 239-265.330.
Hough, Gerald W.; and Hunt, Ian A., 4,642,867, Cl. 29-423.000.
Mills, David; Lindahl, Anthony T.; and Kington, Alan D., 4,637,449, Cl. 164-132.000.
Rolls-Royce plc: *See*—
Adams, Ronald J., 4,651,523, Cl. 60-245.000.
Alderson, Max, 4,666,371, Cl. 415-197.000.
Angus, James P.; and Perry, Derick A., 4,685,864, Cl. 416-229.00R.
Arnold, Hubert E., 4,684,325, Cl. 416-215.000.
Bridges, Stuart A.; and Goddard, John, 4,678,113, Cl. 228-160.000.
Brown, John D.; Gladdish, Peter; and McCormick, Michael A., 4,673,871, Cl. 324-76.00R.
Brown, Michael; Martin, Sharon P.; Seaton, Andrew; Snowsill, Phillip J.; Thomas, Mark S.; and Williams, Hywel, 4,657,479, Cl. 415-138.000.
Buxton, Frank A.; and Barraclough, David J., 4,683,099, Cl. 264-511.000.
Clifford, Rodney J.; and Charters, Ian J., 4,684,322, Cl. 416-95.000.
Conolly, Ralph L., 4,673,124, Cl. 228-170.000.
Cox, John C.; Morgan, Stephen E.; Hamblett, Martin; and Rubini, Alfred, 4,714,407, Cl. 415-192.000.
Cureton, John E.; and Lyons, Michael R., 4,702,070, Cl. 60-39.070.
Denning, Ralph M., 4,691,877, Cl. 244-6.000.
Freeman, Christopher, 4,671,738, Cl. 416-223.00A.
Holroyd, Trevor J., 4,688,429, Cl. 73-602.000.
Hough, Geoffrey S., 4,714,406, Cl. 415-170.00R.
Jenkins, John E.; Sperinck, John; and Buller, Michael J., 4,702,071, Cl. 60-39.092.
Livsey, Terry; and Foulkes, Graham T., 4,715,228, Cl. 73-640.000.
Lyons, Michael R., 4,711,085, Cl. 60-39.141.
Macintyre, Robert M., 4,698,237, Cl. 427-53.100.
Neal, Peter F., 4,657,482, Cl. 415-176.000.
Newton, Arnold C., 4,682,733, Cl. 239-265.390.
Pellow, Terence R., 4,669,955, Cl. 415-174.000.
Pellow, Terence R., 4,713,934, Cl. 60-39.092.
Perry, Derick A., 4,643,647, Cl. 416-230.000.
Perry, Derick A., 4,664,600, Cl. 416-224.000.
Pidcock, Anthony; and Wray, Andrew P., 4,693,074, Cl. 60-39.320.
Stewart, Ian F., 4,699,567, Cl. 415-200.000.
Stewart, Peter A. E.; Hawkesworth, Michael R.; and Witcomb, Roger C., 4,697,079, Cl. 250-303.000.
Sutcliffe, David T.; and Barraclough, David J., 4,683,018, Cl. 156-196.000.
Taylor, Maurice L., 4,679,394, Cl. 60-224.000.
Williams, John E. F.; and Lang, Jack, 4,693,201, Cl. 114-67.00R.
Willis, Jeffrey D., 4,713,938, Cl. 60-742.000.
Woodward, Clifford S., 4,641,782, Cl. 239-265.290.
Woodward, Clifford S., 4,679,732, Cl. 239-265.350.
Wright, William B.; and Flatman, Richard J., 4,683,716, Cl. 60-226.100.
Wright, William B.; and Maguire, Addison C., 4,688,995, Cl. 416-127.000.
Rollwitz, William L., to Southwest Research Institute. NMR moisture measurements. 4,701,705, 10-20-87, Cl. 324-306.000.
Rolm Corporation: *See*—
Dumas, Gregory P.; and Sutterlin, Philip H., 4,642,805, Cl. 370-58.000.
Rolnick, Michael A., to American Medical and Emergency Research Corporation. Balloon laryngoscope. 4,681,094, 7-21-87, Cl. 128-70.000.
Rolodex Corp.: *See*—
Davi, Richard A., 4,713,995, Cl. 83-167.000.
Neilsen, Hildaur L.; and Davi, Richard A., 4,688,457, Cl. 83-468.000.
Roloff, Achim; and Gschwend, Heinz W., to Ciba-Geigy Corporation. Intermediates for the preparation of a carboxylic acid. 4,697,016, 9-29-87, Cl. 544-344.000.
Roloff, Achim: *See*—
Mater, Ludwig; Meyer, Willy; Oertle, Konrad; Roloff, Achim; and Topfl, Werner, 4,677,217, Cl. 558-190.000.
Roloff, Helmut, to Himly, Holscher GmbH & Co. Method and device for preheating raw materials for glass production, particularly a cullet mixture. 4,696,690, 9-29-87, Cl. 65-27.000.
Rolscreen Company: *See*—
Klompenburg, Marlo V., 4,682,455, Cl. 52-207.000.
Minter, Mearl J., 4,669,233, Cl. 52-86.000.
Van Klompenburg, Marlo, 4,658,879, Cl. 160-271.000.
Van Klompenburg, Marlo, 4,702,297, Cl. 160-271.000.
Rolyan Manufacturing Co. Inc: *See*—
Lindemann, Peer, 4,677,971, Cl. 128-87.00R.
Romac Industries Inc.: *See*—
Kent, Randy K., 4,702,886, Cl. 420-18.000.
Romagnoli, Gary B.: *See*—
Johnson, William G.; and Romagnoli, Gary B., 4,714,168, Cl. 220-1.00T.
Romahn, Gotz: *See*—
Boerger, Georg; and Romahn, Gotz, 4,650,929, Cl. 358-86.000.
Roman, Christopher D.: *See*—
Chabala, Leonard V.; and Roman, Christopher D., 4,654,489, Cl. 200-48.00R.
Chabala, Leonard V.; Haarsma, John; O'Leary, Raymond P.; Roman, Christopher D.; and Tobin, Thomas J., 4,690,780, Cl. 252-572.000.
Roman Engineering Company, Inc.: *See*—
Redman, Robert J., 4,663,955, Cl. 72-129.000.
Roman, Gianfranco; Da Rold, Claudio; and Spadotto, Oliviano, to Claber S.p.A. Washing brush with water supply and rotating bristles especially for motor vehicles. 4,686,729, 8-18-87, Cl. 15-29.000.
Roman, Gianfranco; and Boraso, Romeo, to Claber, S.p.A. Three-arm hub joint for tubular structures specifically for hose racks and hose carts. 4,706,906, 11-17-87, Cl. 242-86.000.
Roman, Hugo: *See*—
Martinez, Jorge, 4,634,129, Cl. 273-255.000.
Roman, Michael F.: *See*—
Lasik, Dennis Z.; and Roman, Michael F., 4,670,347, Cl. 428-458.000.
Roman, Michael J.: *See*—
Veres, James E.; Stein, James B.; Beauchamp, Robert W.; Kimmens, Harold R.; Baird, David W.; Roman, Michael J.; Therrien, David G.; and Doyle, John J., 4,654,783, Cl. 364-200.000.
Roman Products, Inc.: *See*—
Manns, Michael C.; and Roberts, Terry E., 4,681,239, Cl. 220-408.000.

Roman, Ronald J., to L-Bar Products Incorporated. Water-activated, exothermic chemical deicing formulations. 4,692,259, 9-8-87, Cl. 252-70.000.

Roman, Stephan. Bladed aircraft rotor with flexible blade mountings. 4,708,591, 11-24-87, Cl. 416-102.000.

Roman, Steven A.: *See*—
Payne, George B.; Soloway, Samuel B.; Powell, James E.; Roman, Steven A.; and Kollmeyer, Willy D., 4,670,041, Cl. 71-92.000.

Romanczuk, Chris S.: *See*—
Zeigler, Thornton W., Jr.; Romanczuk, Chris S.; Betterton, Joseph T.; and Glover, Alfred H., 4,686,952, Cl. 123-572.000.

Romand, Paul: *See*—
Villemin, Daniel; and Romand, Paul, 4,656,692, Cl. 17-44.100.

Romandi, Denes, to Siemens Aktiengesellschaft. Bridge inverter having switching elements interconnected with brass busbars. 4,658,344, 4-14-87, Cl. 363-136.000.

Romanek, Christian: *See*—
Percebois, Serge; and Romanek, Christian, 4,669,288, Cl. 70-367.000.

Romanelli, Luciano. Set of standardized structural elements and accessories for the accomplishment of spatial and/or flat structures which can be combined to delimit habitable spaces in an industrialized building system. 4,715,160, 12-29-87, Cl. 52-648.000.

Romanenko, Anatoly G.: *See*—
Feofanov, Vitaly A.; Pilat, Boris V.; Zhdanovich, Larisa P.; Romanenko, Anatoly G.; Lukhanin, Boris S.; Donets, Oleg V.; and Korobochkin, Valery P., 4,655,895, Cl. 204-213.000.

Romani, R. Marlene, to M.D.C. Romani, Inc. Dual mode hair vacuum and dryer unit. 4,706,326, 11-17-87, Cl. 15-314.000.

Romania, Samuel R.: *See*—
Smith, Grant M.; Romania, Samuel R.; and Gibbs, Ronald T., 4,674,004, Cl. 361-384.000.

Romanini, Daniele: *See*—
Forti, Sergio; Garagnani, Enea; and Romanini, Daniele, 4,707,519, Cl. 525-133.000.

Romann, Peter: *See*—
Biermann, Eberhard; Rilling, Heinz; and Romann, Peter, 4,649,367, Cl. 338-184.060.
Biermann, Eberhard; Nagele, Erwin; and Romann, Peter, 4,672,356, Cl. 338-184.000.

Romano, Antonino. Device for aligning contours of fabrics for industrial sewing machines. 4,655,150, 4-7-87, Cl. 112-153.000.

Romano, Antonino. Pneumatic action accessory holder specifically for sewing machines. 4,696,243, 9-29-87, Cl. 112-257.000.

Romano, Peter A.; and Mileschuk, Joseph. Accupressure probe positioner. 4,662,363, 5-5-87, Cl. 128-60.000.

Romano, Ugo; Sasselli, Giacomo; and Raisa, Luigi, to Chimica Augusta, S.p.A. Process for separating linear-chain oxo-alcohols from mixtures of linear and branched-chain oxo-alcohols. 4,670,606, 6-2-87, Cl. 568-410.000.

Romano, Ugo: *See*—
Bellussi, Giuseppe; Buonomo, Franco; Esposito, Antonio; Clerici, Mario; Romano, Ugo; and Notari, Bruno, 4,701,428, Cl. 502-8.000.
Renzi, Fiorenzo; Rivetti, Franco; Romano, Ugo; and Gagliardi, Claudio, 4,713,433, Cl. 526-314.000.
Rivetti, Franco; Mizia, Franco; Garone, Guido; and Romano, Ugo, 4,659,845, Cl. 549-438.000.

Romanovskaya, Antonina M., to Vsesojuzny Nauchno-Issledovtelsky i Ispytatelny Institut Meditsinskoi Tekhniki. Method of indirect measurement of arterial tension and a device for pulse wave registration. 4,653,506, 3-31-87, Cl. 128-677.000.

Romanowitz, Harold M.: *See*—
Fenn, Ronald L.; and Romanowitz, Harold M., 4,642,017, Cl. 41-348.000.

Romanowski, Christopher A.: *See*—
Flowers, John E.; Romanowski, Christopher A.; and Smith, Dennis M., 4,681,152, Cl. 164-477.000.

Romanowski, Richard. Pressure cuff. 4,667,672, 5-26-87, Cl. 128-327.000.

Romans-Hess, Alice Y.; Guenther, Frederick M.; and Ryan, Lenore S., to Kimberly-Clark Corporation. Reduced leakage menstrual pad with built-in fold lines. 4,655,759, 4-7-87, Cl. 604-385.00R.

Romanski, Eric R., to Albany International Corp. Method of forming a locked seam. 4,649,619, 3-17-87, Cl. 29-433.000.

Romanski, John G.: *See*—
Bremer, James C.; Hurt, Fred S.; Romanski, John G.; Kroupa, Richard F.; and Kraus, Ronald G., 4,713,533, Cl. 250-203.00R.

Romashikhin, Nikolai A.: *See*—
Fomichev, Leonid F.; Gorokhovsky, Alexandr M.; and Romashikhin, Nikolai A., 4,671,092, Cl. 72-102.000.

Romberg, Felix B. Fence tool for wire crimping and wire cutting. 4,635,687, 1-13-87, Cl. 140-106.000.

Romberg, Felix B. Mechanism for controlled closing of hinged gates. 4,662,111, 5-5-87, Cl. 49-364.000.

Romberger, Karl A.: *See*—
Bergman, Roger M.; Bielecki, Edwin J.; Higgins, Brian J.; and Romberger, Karl A., 4,663,130, Cl. 423-68.000.

Rombout, Anton, to Windmoller & Holscher. Mounting means for plate cylinders of a printing machine having replaceable sleevelike plate cylinder shells. 4,697,516, 10-6-87, Cl. 101-216.000.

Rombout, Willy. Method and equipment for electronically transmitting informations. 4,639,913, 1-27-87, Cl. 370-90.000.

Rombouts, Franciscus M.; Thibault, Jean-Francois; and Mercier, Christiane, to Institut National de la Recherche Agronomique. Oxidative enzyme-catalyzed crosslinking of beet pectins. 4,672,034, 6-9-87, Cl. 435-101.000.

Rome, Howard M. Process for preparing clam cutlet. 4,715,091, 12-29-87, Cl. 17-48.000.

Romeas, Rene ; and Lecomte, Daniel, to Thomson-CSF. Level controlled readout system for formatted record recorded on an optical disc. 4,672,596, 6-9-87, Cl. 369-59.000.

Romeas, Rene, to Alcatel Thomson Gigadisc, SA. Optical disk with pre-recorded marker pattern. 4,685,096, 8-4-87, Cl. 369-44.000.

Romed Corporation: *See*—
Conrad, Rodney W., 4,704,910, Cl. 73-863.210.

Romell, Gunnar V. R.: *See*—
Skogberg, Bo T.; and Romell, Gunnar V. R., 4,634,317, Cl. 405-259.000.

Romenesko, David J.: *See*—
Groenhof, Eugene D.; Romenesko, David J.; and Streu, Rick D., 4,640,792, Cl. 252-78.300.

Romeo, Arthur L.: *See*—
Louie, Chuen W.; Roelofs, Darrell D.; Volk, John L.; and Romeo, Arthur L., 4,673,847, Cl. 315-368.000.
Spieth, Robert H.; Louie, Chuen W.; Volk, John L.; Roelofs, Darrell D.; DeLorenzo, Apthony N.; Romeo, Arthur L.; and Mayer, Thomas L., 4,680,510, Cl. 315-368.000.

Romeo, Aurelio: *See*—
della Valle, Francesco; and Romeo, Aurelio, 4,639,437, Cl. 514-54.000.
della Valle, Francesco; Romeo, Aurelio; and Lorenzi, Silvana, 4,707,469, Cl. 514-26.000.
della Valle, Francesco; and Romeo, Aurelio, 4,713,374, Cl. 514-54.000.
della Valle, Francesco; and Romeo, Aurelio, 4,716,223, Cl. 536-53.000.
Valle, Francesco D.; and Romeo, Aurelio, 4,704,469, Cl. 560-065.000.

Romeo, Ciriaco: *See*—
Doria, Gianfederico; Romeo, Ciriaco; and Corno, Maria L., 4,670,457, Cl. 514-470.000.

Romeo, Francoise; and Joly, Pascale. Machine for the reading, processing and compression of documents. 4,684,997, 8-4-87, Cl. 358-263.000.

Romeo, Frank P., Jr., to United States of America, Navy. Detection of unstable narrowband signals. 4,634,988, 1-6-87, Cl. 328-167.000.

Romer Britax Autogurte GmbH: *See*—
Czernakowski, Waldemar; Wetter, Hermann; and Felsch, Bernhard, 4,653,809, Cl. 297-487.000.
Klanner, Wilfried; Schmaler, Dieter H.; Wetter, Hermann; Felsch, Bernhard; and Czernakowski, Waldemar, 4,687,255, Cl. 297-488.000.

Romer, Dietmar: *See*—
Zeugner, Horst; Romer, Dietmar; Liepmann, Hans; and Milkowski, Wolfgang, 4,649,137, Cl. 514-221.000.

Romer Labs, Inc.: *See*—
Romer, Thomas R., 4,679,737, Cl. 241-29.000.

Romer, Manfred; Woletz, Peter; and Kruger, Klaus, to Morton Thiokol GmbH. Radiation-curable composition, a process for preparing same and the use thereof. 4,640,938, 2-3-87, Cl. 522-79.000.

Romer, Michael, to International Standard Electric Corporation. Coaxial cable connection to a terminal strip. 4,662,704, 5-5-87, Cl. 339-177.00R.

Romer, Michael: *See*—
Bofinger, Klaus; Kurmeier, Hans A.; Romer, Michael; and Seubert, Jurgen, 4,699,636, Cl. 55-38.000.
Kam Ming Chan, Lawrence; Gray, George W.; Toyne, Kenneth J.; Lacey, David; Eidenschink, Rudolf; and Romer, Michael, 4,696,549, Cl. 350-350.00R.
Krause, Joachim; Romer, Michael; and Weber, Georg, 4,639,328, Cl. 252-299.610.

Romer, Rudolf; Winkelmann, Jurgen; and Rossmann, Winfried, to Rheinmetall GmbH. Anti-tank shell. 4,671,181, 6-9-87, Cl. 102-518.000.

Romer, Rudolf: *See*—
Bisping, Bernhard; Gersbach, Klaus; and Romer, Rudolf, 4,708,064, Cl. 102-517.000.

Romer, Theodore, to Aljo Products, Inc. Gutter system. 4,660,333, 4-28-87, Cl. 52-169.500.

Romer, Thomas R., to Romer Labs, Inc. Grinding sub-sampling mill and method for preparation of test sample. 4,679,737, 7-14-87, Cl. 241-29.000.

Romero, Hector, Jr.; St. Clair, Joe C.; and Wagoner, James D., to International Business Machines Corporation. Dual purpose screen-memory refresh counter. 4,648,032, 3-3-87, Cl. 364-200.000.

Romero, Jorge E.: *See*—
Lewis, Henry W.; and Romero, Jorge E., 4,696,707, Cl. 156-64.000.

Romero, Lazarito A. Head guard for soccer player. 4,698,852, 10-13-87, Cl. 2-171.000.

Romeu, Ramon. Machining machine. 4,637,107, 1-20-87, Cl. 29-27.00C.

Romeu, Ramon. Machine tool. 4,712,282, 12-15-87, Cl. 29-27.00C.

Romi, Romeu, to Industrias Romi S/A. Hydraulic clutch actuator. 4,646,893, 3-3-87, Cl. 192-85.0CA.

Romi, Romeu, to Industrias Romi S/A. Process and device for copying and threading in automatic square cycle. 4,665,783, 5-19-87, Cl. 82-5.000.

Romig, Charles A.: *See*—
Allen, Phillip R.; and Romig, Charles A., 4,652,624, Cl. 528-17.00.

Romine, Charles F.: *See*—
Meisner, Edward O.; and Romine, Charles F., 4,695,061, Cl. 277-27.000.

Romine, Edward L.; and Byczek, Roger W., to Methode Electronics, Inc. Multi-pin electrical header. 4,678,250, 7-7-87, Cl. 439-83.000.

Romine, Richard A. Dust-confining vacuum sander. 4,697,389, 10-6-87, Cl. 51-180.000.

Romine, Richard A. Portable and collapsible platform. 4,712,647, 12-15-87, Cl. 182-96.000.

Rommel, Emil, to Heckler & Koch GmbH. Actuating mechanism for a cocking device. 4,671,161, 6-9-87, Cl. 89-1.400.

Rommel, Reiner. Tool for stamping, cutting, pressing or the like. 4,700,592, 10-20-87, Cl. 81-[illegible].

Rommel, Reiner; and Landu[illegible]ner, to Adolf Hottinger Giesserei und Maschinenbau GmbH. Core and shell shooter. 4,711,292, 12-8-87, Cl. 164-200.000.

Rommen, Hans; and Stoy, Erich, to SMS Schloemann-Siemag AG. Six-high roll stand with offset inner backup rolls. 4,712,416, 12-15-87, Cl. 72-241.000.

Rommerskirchen, Hans J.: *See*—
Pierr, Robert; Ritterbex, Horst; Jost, Frantisek; and Rommerskirchen, Hans J., 4,668,438, Cl. 260-400.000.
Pierr, Robert; Panthel, Guenter; Schmid, Karl H.; Colignon, Dietmar; Rommerskirchen, Hans J.; Schmidt, Wolfgang; and Ritterbex, Horst, 4,695,409, Cl. 260-400.000.

Romo, H. Duane. Insert for converting a conventional home oven into a pizza oven. 4,640,265, 2-3-87, Cl. 126-337.00R.

Romox Incorporated: *See*—
Izumi, Hideki D.; and Terrell, Paul J., 4,680,731, Cl. 364-900.000.

Romstadt, Douglas J.; and Seitz, William R., to Allied Corporation. Electronic controller for predetermined temperature coefficient heater. 4,694,145, 9-15-87, Cl. 219-497.000.

Romswinkel, Horst: *See*—
Grzanna, Ortwin; Koesfeld, Manfred; Weber, Rolf-Udo; Steuer, Aloysius; Romswinkel, Horst; Fremgen, Dieter; and Kastrop, Dieter, 4,693,767, Cl. 156-49.000.

Romualdus Ter Horst, Gerhardus E.: *See*—
Giezeman, Paulus G.; and Romualdus Ter Horst, Gerhardus E., 4,713,674, Cl. 355-14.0SH.

Romvary, Attila: *See*—
Simon, Ferenc; Romvary, Attila; Varga, Janos; Bozzay, Laszlo; and Bruckner nee Gabor, Edit, 4,650,790, Cl. 514-39.000.

Rona, Mehmet, to Arthur D. Little, Inc. Voltage tunable coherent light source. 4,706,251, 11-10-87, Cl. 372-4.000.

Ronan, Harold R., Jr.; and Wheatley, Carl F., Jr., to RCA Corporation. Fast switch-off circuit for conductivity modulated field effect transistor. 4,677,324, 6-30-87, Cl. 307-571.000.

Ronco, Karl, to Ciba-Geigy AG. Disazo pigment from condensation of carboxylic acid chloride with 2,5-dichloro-1,4-phenylene diamine. 4,689,403, 8-25-87, Cl. 534-820.000.

Ronco Laboratories, Inc.: *See*—
Baseman, Maurice; and Swift, Harold, 4,687,634, Cl. 422-7.000.

Ronco, Ronald; Stingelin, Willy; and Hanggi, Ernst, to Ciba-Geigy Corporation. Process for the preparation of 2,4,6-tris(aminophenylamino)triazines. 4,650,867, 3-17-87, Cl. 544-197.000.

Ronconi, Roberto; and Chierici, Roberto, to Selenia Industrie Elettroniche Associate—S.p.A. Perfectioning in reply type radar systems, in particular the SSR type. 4,656,477, 4-7-87, Cl. 342-39.000.

Roncucci, Romeo; Gillet, Claude L.; Cordi, Alexis H.; Martens, Mark A.; Roba, Joseph L.; Niebes, Paul J.; Lambelin, Georges E.; and Van Dorsser, William R., to Continental Pharma Inc. Derivatives of glycinamide, their preparation and their use. 4,639,468, 1-27-87, Cl. 514-620.000.

Roncucci, Romeo: *See*—
Diaz, Joseph; Demarne, Henri; Roncucci, Romeo; and Schmelck, Paul-Henry, 4,704,450, Cl. 530-324.000.
Diaz, Joseph; Demarne, Henri; Roncucci, Romeo; and Schmelck, Paul-Henry, 4,707,541, Cl. 530-324.000.

Roncucci, Romeo R.: *See*—
Lambelin, Georges E.; Roncucci, Romeo R.; Roba, Joseph; and Gillet, Claude L., 4,638,070, Cl. 549-23.000.

Rondel, Stephen A.; and Petrich, David B., to Advanced Products & Technologies. Portable beverage brewer. 4,674,400, 6-23-87, Cl. 99-279.000.

Rondelez, Francis: *See*—
Demoulin, Catherine A.; Ausserre, Dominique; and Rondelez, Francis, 4,688,938, Cl. 356-154.000.

Rones, Harvey C. Eye and binocular vision demonstrator. 4,680,015, 7-14-87, Cl. 434-271.000.

Rongen, Josephus W.; and van Cooten, Robertus, to Oce-Nederland B.V. Exposure system. 4,641,950, 2-10-87, Cl. 355-3.00R.

Ronic S.A.: *See*—
Machuron, Robert, 4,673,860, Cl. 318-812.000.

Ronitson, Igor, to Massachusetts Institute of Technology. Detection and isolation of homologous, repeated and amplified nucleic acid sequences. 4,675,283, 6-23-87, Cl. 435-6.000.

Ronis S.A.: *See*—
Ricouard, Jacques; and Chappoux, Claude, 4,637,507, Cl. 194-212.000.

Ronk Electrical Industries, Inc.: *See*—
Ronk, Leroy B.; and Hertz, Claude M., 4,697,132, Cl. 318-795.000.

Ronk, Leroy B.; and Hertz, Claude M., to Ronk Electrical Industries, Inc. Reduction of voltage drop in power distribution systems and of loss of motor torque. 4,697,132, 9-29-87, Cl. 318-795.000.

Ronka, Pekka; and Vaintola, Raimo, to Kone Oy. Procedure for loading cuvette packages into an instrument, and cuvette package. 4,636,477, 1-13-87, Cl. 436-48.000.

Ronm GmbH: *See*—
Riemann, Achim; and Ude, Werner, 4,675,458, Cl. 568-727.000.

Ronn, Torsten: *See*—
Hellner, Lars; Haglund, Ingemar; Ronn, Torsten; and Albrektsson, Kjell, 4,644,867, Cl. 102-495.000.

Ronning, Patricia M.; and Vandesteeg, Gregg A., to Minnesota Mining and Manufacturing Company. Compositions, devices, and methods for extended control of insect activity. 4,683,132, 7-28-87, Cl. 424-409.000.

Ronthaler, Karl-Heinz: *See*—
Frings, Heinz; Kabelitz, Hans-Peter; and Ronthaler, Karl-Heinz, 4,639,199, Cl. 418-3.000.

Rood, Dennis D.: *See*—
Henderson, William D.; Patel, Dhirajlal C.; Rood, Dennis D.; and Sproul, Richard M., 4,671,354, Cl. 166-134.000.

Rood, Jerry A., to American Standard Inc. Antifriction thrust bearing for orbital motion. 4,715,733, 12-29-87, Cl. 384-445.000.

Rood, Leonard D. Treatment for improving cellulosic insulation. 4,645,696, 2-24-87, Cl. 428-35.000.

Roodbeen, Leonardus F. H., to Oce-Nederland B.V. Contact fixing device with an improved cleaning mechanism. 4,711,549, 12-8-87, Cl. 355-3.0FU.

Roodvoets, David L., to Dow Chemical Company, The. Lightweight roofing system. 4,677,800, 7-7-87, Cl. 52-309.120.

Kook, Graham A. W.: *See*—
Stanford, John L.; Cohen, Irun R.; Frenkel, Ayala; Holoshitz, Joseph; van Eden, Willem; and Rook, Graham A. W., 4,716,038, Cl. 424-92.000.

Rooke, Paul A., to International Business Machines Corporation. Self-pivoting robotic gripper tool. 4,635,985, 1-13-87, Cl. 294-2.000.

Rooklyn, Jack. Method of making and installing conductive floor tile for control of static generation. 4,699,677, 10-13-87, Cl. 156-71.000.

Rooklyn, Jack, to Industrial Management Co. Product having grounded static-free work surface. 4,702,951, 10-27-87, Cl. 428-193.000.

Rooney, Allen J., III: *See*—
Illuzzi, Vincent A.; Kutzavitch, Walter G.; and Rooney, Allen J., III, 4,642,550, Cl. 323-222.000.

Rooney, Clarence S.: *See*—
Cragoe, Edward J., Jr.; Rooney, Clarence S.; and Rokach, Joshua, 4,699,917, Cl. 514-381.000.
Hoffman, William F.; Rooney, Clarence S.; and Lee, Ta J., 4,661,483, Cl. 514-236.000.

Rooney, Francis J.: *See*—
Rooney, William J.; and Rooney, Francis J., 4,654,620, Cl. 337-296.000.

Rooney, James F. Joining and mounting device. 4,636,122, 1-13-87, Cl. 411-45.000.

Rooney, John M.: *See*—
Harris, Stephen J.; McKervey, M. Anthony; Melody, David P.; Woods, John; and Rooney, John M., 4,636,539, Cl. 523-214.000.
Harris, Stephen J.; Woods, John G.; and Rooney, John M., 4,642,362, Cl. 556-419.000.
Harris, Stephen J.; Woods, John G.; and Rooney, John M., 4,699,966, Cl. 528-12.000.
Woods, John; Rooney, John M.; and Bolger, Bernard J., 4,668,713, Cl. 522-174.000.
Woods, John G.; and Rooney, John M., 4,640,849, Cl. 427-54.100.
Woods, John G.; and Rooney, John M., 4,675,270, Cl. 430-311.000.
Woods, John G.; and Rooney, John M., 4,675,273, Cl. 430-325.000.

Rooney, Sidney C., to Fibron Machine Corporation. Paper tail cutter. 4,671,151, 6-9-87, Cl. 83-150.000.

Rooney, Thomas C.: *See*—
Crandall, Robert E.; Kosulic, Kenneth F.; Rooney, Thomas C.; and Smith, Larry C., 4,681,033, Cl. 100-118.000.

Rooney, William J.; and Rooney, Francis J., to Commercial Enclosed Fuse Co. of New Jersey. Asymmetrical fuse links. 4,654,620, 3-31-87, Cl. 337-296.000.

Roop, Stevie C.: *See*—
Oliver, Ronald N.; and Roop, Stevie C., 4,688,409, Cl. 70-417.000.

Rooperol (NA) NV: *See*—
Dreves, Siegfried; and Liebenberg, Roelof W., 4,644,085, Cl. 568-729.000.

Roos, Aage V., to Santrade Limited. Drill. 4,684,298, 8-4-87, Cl. 408-59.000.

Roos, Aage V., to Santrade Limited. Cutting tool. 4,687,387, 8-18-87, Cl. 408-144.000.

Roos, Andre; Dutertre-Laduree, Daniel; Goldman, Max; and Goldman, Alice, to PGEP Professional General Electric Corp. Electric particle detector for the detection of fire. 4,698,586, 10-6-87, Cl. 324-71.100.

Roos, Eberhard, to Berchtold Medizin-Elektronik GmbH & Co. Electro surgical high frequency cutting instrument. 4,706,667, 11-17-87, Cl. 128-303.140.

Roos, Ernst: *See*—
Hammer, Heinz; Eichenauer, Herbert; Roos, Ernst; and Jurgens, Eberhard, 4,699,972, Cl. 528-293.000.
Kruger, Bernd-Wieland; Hoffmann, Hellmut; Roos, Ernst; and Behrenz, Wolfgang, 4,678,777, Cl. 514-110.000.

Roos, George E.: *See*—
Colgate, Stirling A.; and Roos, George E., 4,681,643, Cl. 149-21.000.

Roos, Gerhard; Dexling, Hartmut; and Michael, Wolfgang, to L. Schuler GmbH. Drawing apparatus in presses. 4,712,412, 12-15-87, Cl. 72-345.000.

Roos, Hans, to Deutsche Filterbau GmbH. Process for cleaning filter elements. 4,692,173, 9-8-87, Cl. 55-96.000.

Roos, Hartog J.; and Schilling, Edward F., to General Electric Company. X-ray imaging system calibration using projection means. 4,697,075, 9-29-87, Cl. 250-213.0VT.

Roos, Johann; and Flender, Hans F., to Roos, Udo. Combustion furnace. 4,646,661, 3-3-87, Cl. 110-245.000.

Roos, Mark D., to Hewlett-Packard Company. Method and apparatus for eliminating harmonic skip. 4,647,847, 3-3-87, Cl. 324-79.00R.

Roos, Mark D.: *See—*
Sharrit, David D.; Dildine, Robert G.; Roos, Mark D.; and Barr, John T., IV, 4,636,717, Cl. 324-77.00B.
Sharrit, David D.; Neering, Michael J.; Donecker, S. Bruce; Roos, Mark D.; Cannon, Wayne C.; and Barr, John T., IV, 4,661,767, Cl. 324-57.00R.

Roos, Otto: *See—*
Losel, Walter; Roos, Otto; and Schnorrenberg, Gerd, 4,694,085, Cl. 546-65.000.
Schnorrenberg, Gerd; Roos, Otto; Losel, Walter; Wiedemann, Ingrid; Gaida, Wolfram; and Hoefke, Wolfgang, 4,683,238, Cl. 514-292.000.

Roos, Roland, Dieter Schomann, Klaus; and Muenzner, Wulf, to BASF Aktiengesellschaft. Tape guide system for magnetic tapes, especially video tapes. 4,667,261, 5-19-87, Cl. 360-130.210.

Roos, Roland: *See—*
Balz, Werner; Muenzner, Wulf; Schomann, Klaus D.; Berger, Heinz; and Roos, Roland, 4,712,148, Cl. 360-132.000.

Roos, Rudolf; Schlapp, Albert; and Federmann, Dieter, to Rockwell-Golde G.m.b.H. Sliding roof for an automobile. 4,707,022, 11-17-87, Cl. 296-222.000.

Roos, Sture G.: *See—*
Perntz, Carl-Gunnar E.; and Roos, Sture G., 4,646,291, Cl. 370-85.000.

Roos, Udo: *See—*
Roos, Johann; and Flender, Hans F., 4,646,661, Cl. 110-245.000.

Roos, William N., to Autotrol Corporation. Disengageable one-way mechanism for synchronous motors. 4,716,325, 12-29-87, Cl. 310-41.000.

Roos, Wouter; Damman, Bernardus J.; Lagendijk, Arie; Steidl, Dieter; and von Schenck, Raban, to Hoechst Aktiengesellschaft. Process for reducing metal ions in aqueous solutions. 4,670,244, 6-2-87, Cl. 423-659.000.

Roosdrop, Joannes W. M., to AMP Incorporated. Electrical wedge connector. 4,650,273, 3-17-87, Cl. 339-247.000.

Roose, Lars D. Complete transposable notation and keyboard music system for typists. 4,655,117, 4-7-87, Cl. 84-423.00B.

Roose, Thomas R.: *See—*
Cathriner, Richard L.; and Roose, Thomas R., 4,708,793, Cl. 210-188.000.

Root, John A.: *See—*
Szczesny, David S.; and Root, John A., 4,693,533, Cl. 439-350.000.

Root, John P.: *See—*
Blevins, Gerald G.; Johnson, Fred, Jr.; Lentz, Frank R.; and Root, John P., 4,641,407, Cl. 29-237.000.

Root, Jon C.; and Barnes, John F., to Witco Corporation. Lubricant compositions. 4,675,121, 6-23-87, Cl. 252-25.000.

Root, Steven J.; and Grigsby, James D., to Steel Heddle Manufacturing Co., Inc. Heddle frame for a high speed weaving machine. 4,706,717, 11-17-87, Cl. 139-92.000.

Roots, Rolland R., to Killark Electric Manufacturing Company. Remote signaling box. 4,638,297, 1-20-87, Cl. 340-304.000.

Rooy, Elwin L.: *See—*
Kersker, Michael M.; Truckner, William G.; Granger, Douglas A.; and Rooy, Elwin L., 4,681,736, Cl. 420-535.000.

Rooyakkers, John A., to Kimberly-Clark Corporation. Method of forming an absorbent genitalia pouch for incontinent males. 4,675,012, 6-23-87, Cl. 604-349.000.

Roozenbeek, Herman: *See—*
Dreyer, Adolf; and Roozenbeek, Herman, 4,637,247, Cl. 73-35.000.

Ropars, Claude; Nicolau, Yves C.; and Chassaigne, Maurice, to Centre National de la Recherche Scientifique; Centre Hospitalier Regional de Tours; and Studiengesellschaft Kohle mbH. Encapsulating biological active substances into erythrocytes. 4,652,449, 3-24-87, Cl. 424-101.000.

Ropars, Marcel; and Bloch, Bertrand, to Societe Nationale des Poudres et Explosifs; and Office National d'Etudes et de Recherches Aerospatiales (ONERA). Thermoset polymers and prepolymers with rapid curing, obtained by polycondensation of pyridine derivatives and aromatic dialdehydes and adding of phenolic compounds. 4,642,264, 2-10-87, Cl. 428-367.000.

Ropars, Yvon: *See—*
Jaffre, Robert; and Ropars, Yvon, 4,714,041, Cl. 114-67.00A.

Roper Corporation: *See—*
Herscher, Lee R.; and Goertzen, Gerold G., 4,706,761, Cl. 172-42.000.
Lesikar, Johnie N., 4,699,553, Cl. 411-353.000.
Scanland, Joseph E.; and Gray, Robert E., 4,667,459, Cl. 56-11.300.

Roper, Peter; and Spector, George. Indoor and outdoor cloth farm. 4,713,909, 12-22-87, Cl. 47-17.000.

Roper Whitney Co.: *See—*
Benedict, Roger J., 4,646,599, Cl. 83-131.000.

Roper Whitney Co., division of Roper Industries, Inc.: *See—*
Benedict, Roger J., 4,669,346, Cl. 83-412.000.

Ropol, Inc.: *See—*
Gleaves, Geoffrey H., 4,709,516, Cl. 52-11.000.

Ropp, Richard C. Composition and method for modifying and augmenting recovery of hydrocarbons from hydrocarbon-bearing formations. 4,634,540, 1-6-87, Cl. 252-8.551.

Roppel, Thaddeus A.; Asmussen, Jes; and Reinhard, Donnie K., to Michigan State University. Dual plasma microwave apparatus and method for treating a surface. 4,691,662, 9-8-87, Cl. 118-50.100.

Roppongi, Makoto; and Tsuji, Kazuaki, to Tokyo Shibaura Denki Kabushiki Kaisha. Photoelectric transducer element. 4,649,409, 3-10-87, Cl. 357-30.000.

Roque, Clyde D.: *See—*
Bishop, Thomas R.; Kovar, Wayne A.; and Roque, Clyde D., 4,706,745, Cl. 166-98.000.

Roquemore, William M.: *See—*
Ganguly, Biswa; Goss, Larry P.; Roquemore, William M.; and Trump, Darryl D., 4,679,934, Cl. 356-43.000.

Roques, Henri: *See—*
Angles, Michel; Hoornaert, Pierre; Audouin, Alain; Roques, Henri; Aurelle, Yves; and Lopez, Louis, 4,650,581, Cl. 210-398.000.

Roquet-Jalmar, Jorge C., to Bislak, S.A. Process for preparing and therapeutical applications of the "2,4,6-triiodophenol". 4,677,124, 6-30-87, Cl. 514-737.000.

Roquette Freres: *See—*
Bussiere, Guy; Zimmermann, Marius; and Huchette, Michel, 4,680,180, Cl. 426-16.000.
Lemay, Patrick, 4,670,611, Cl. 568-868.000.
Serpelloni, Michel; and Lemay, Patrick, 4,661,647, Cl. 568-868.000.
Serpelloni, Michel; and Bussiere, Guy, 4,675,200, Cl. 426-567.000.

Roquette Freres Societe Anonyme: *See—*
Gosset, Serge; and Lumaret, Jean-Claude, 4,711,794, Cl. 427-389.900.

Roraback, Harry G. Dual-weighted golf putter head. 4,714,257, 12-22-87, Cl. 273-171.000.

Rorabaugh, Barre L. Adjustable-resistance exercise ski-pad. 4,653,749, 3-31-87, Cl. 272-97.000.

Rorabaugh, Barre L. Treadmill motor drive. 4,664,646, 5-12-87, Cl. 474-88.000.

Rorden, Louis H.; and Moore, Thomas C., to Develco. Method and apparatus employing received independent magnetic field components of a transmitted alternating magnetic field for determining location. 4,710,708, 12-1-87, Cl. 324-207.000.

Rorden, Louis H.: *See—*
Marsh, John L.; Fraser, Edward C.; Rorden, Louis H.; and Bauer, William H., 4,646,831, Cl. 166-242.000.

Rorden, Robert J.: *See—*
Sasnett, Michael W.; Rorden, Robert J.; and Gibson, Larry A., 4,648,093, Cl. 372-38.000.

Rorden, William L., to Graham-Patten Systems, Inc. Phase-locked loop circuit. 4,686,689, 8-11-87, Cl. 375-81.000.

Rorer, Morris P., to Du Pont de Nemours, E. I., and Company. Herbicidal pyridinesulfonamides. 4,668,279, 5-26-87, Cl. 71-92.000.

Rorer, Morris P., to Du Pont de Nemours, E. I., and Company. Benzofuran and benzothiophene sulfonamides. 4,695,310, 9-22-87, Cl. 71-90.000.

Rorer, Morris P., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,695,311, 9-22-87, Cl. 71-92.000.

Rorer, Morris P., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,699,647, 10-13-87, Cl. 71-90.000.

Rorer, Morris P., to Du Pont de Nemours, E. I., and Company. Herbicidal heterocyclicbenzylsulfonamides. 4,699,649, 10-13-87, Cl. 71-90.000.

Rorer Pharmaceutical Corporation: *See—*
Huang, Fu-chih, 4,677,210, Cl. 514-312.000.
Huang, Fu-chih; Suh, John T.; and Skiles, Jerry W., 4,703,037, Cl. 514-19.000.
Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,692,445, Cl. 514-212.000.
Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,699,906, Cl. 514-212.000.
Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Dodson, Stuart A., 4,704,388, Cl. 514-222.000.
Kuhla, Donald E.; Studt, William L.; Campbell, Henry F.; and Yelnosky, John, 4,714,707, Cl. 514-361.000.
O'Donnell, John B., 4,693,059, Cl. 53-567.000.
Studt, William L.; Riley, Richard L.; and Douglas, George H., 4,704,401, Cl. 514-456.000.
Studt, William L.; Zimmerman, Harry K.; and Dodson, Stuart A., 4,707,478, Cl. 514-580.000.
Yelnosky, John; and Mir, Ghulam N., 4,701,457, Cl. 514-256.000.

Rorig, Kurt J.; Liang, Chi-Dean; and Hamilton, Robert W., to G. D. Searle & Co. N-(aralkoxybenzyl)-4(benzhydryl) piperidines, 4,650,874, 3-17-87, Cl. 546-236.000.

Rorig, Kurt J.: *See—*
Desai, Bipinchandra N.; Chorvat, Robert J.; and Rorig, Kurt J., 4,639,524, Cl. 546-229.000.
Djuric, Stevan W.; Chinn, Leland J.; and Rorig, Kurt J., 4,687,856, Cl. 549-414.000.

Rorije, Gerhardus J.: *See—*
Bakker, Gijsbertus; and Rorije, Gerhardus J., 4,639,636, Cl. 313-408.000.

Rory Ltd.: *See—*
Fabbro, Oreste, 4,633,922, Cl. 141-24.000.

Ros, Johannes F., to Innovative Concepts Europe B.V. Separable knife holder. 4,713,951, 12-22-87, Cl. 70-456.00R.

Rosa, Bruno A.; Harwood, Jon W.; Moring, Walter G., III; and Reagan, Peter L., to AP Industries, Inc. Method for forming an air pipe. 4,656,713, 4-14-87, Cl. 29-157.00R.

Rosa, Bruno A.: *See—*
Harwood, Jon; Clegg, Michael; Rosa, Bruno A.; and Moring, Walter G., 4,656,712, Cl. 29-157.00R.

Rosa, Daniele S. A. Posterior chamber intraocular lens. 4,642,114, 2-10-87, Cl. 623-6.000.

Rosa, Frank, to Redyref-Pressed & Welded, Inc. Mounting mechanism for connecting light box to telephone enclosure. 4,638,605, 1-27-87, Cl. 52-28.000.

Rosa, Jean; Castaigne, Jean-Paul; Demarne, Henri; and Tozzolino, Pierre, to Sanofi; and Institut National de la Sante et de la Recherche Medicale. Cyclic dithiodiacetamides and compositions containing them. 4,642,306, 2-10-87, Cl. 514-222.000.

Rosa, Jean. Method for fabricating molding or slotting boards such as shutter slats, molding for carpentry or for construction and apparatus for practicing this process. 4,643,237, 2-17-87, Cl. 144-369.000.

Rosa, John; and Frank, William E., to Westinghouse Electric Corp. High frequency inverter circuit for melting and induction heating. 4,638,138, 1-20-87, Cl. 219-10.770.

Rosa, John, to Westinghouse Electric Corp. AC/DC or DC/AC converter system with outboard commutation inductors. 4,683,527, 7-28-87, Cl. 363-5.000.

Rosa, Onorino G.; Varesio, Carlo; and Oppici, Ernesto, to Farmitalia Carlo Erba S.p.A. Method for extracting phenylalanine from broths of bioconversion. 4,668,821, 5-26-87, Cl. 562-443.000.

Rosa, Stephen P., to TVI Energy Corporation. Multi-spectral target. 4,659,089, 4-21-87, Cl. 273-348.100.

Rosada, Antonio. Trolley for sliding sashes in windows and door-windows. 4,674,232, 6-23-87, Cl. 49-425.000.

Rosaen, Borje O. Differential pressure monitor. 4,651,570, 3-24-87, Cl. 73-744.000.

Rosaen, Lars O. Automatic shut-off device. 4,700,742, 10-20-87, Cl. 137-557.800.

Rosaen, Leslie J. Tail-less neck scarf. 4,654,897, 4-7-87, Cl. 2-207.000.

Rosaen, Nils N., to Rosedale Products, Inc. Fluid filter with filter retainer. 4,701,259, 10-20-87, Cl. 210-450.000.

Rosalki, Sidney B., to Boehringer Mannheim GmbH. Process and reagent for the differentiated determination of isoenzymes of alkaline phosphatase. 4,681,842, 7-21-87, Cl. 435-21.000.

Rosan, Jose, Jr.: *See*—
Reece, Marvin P.; and Rosan, Jose, Jr., 4,712,955, Cl. 411-17.000.

Rosander, Jan, to Durr Dental GmbH & Co. KG. Apparatus for separating air and solid particles from a liquid. 4,663,035, 5-5-87, Cl. 210-167.000.

Rosano, Carmen L.: *See*—
Hurwitz, Charles; Rosano, Carmen L.; Parhami, Nourollah; and Hechemy, Karim, 4,645,748, Cl. 436-509.000.

Rosario, George M. Brake alert device. 4,663,609, 5-5-87, Cl. 340-72.000.

Rosas, Robin R., to Pennwalt Corporation. Method for maintaining zero calibration values in article sorting machine. 4,649,494, 3-10-87, Cl. 364-478.000.

Rosas, Robin R.: *See*—
Brown, Ian A.; McMahon, Dennis R.; Rosas, Robin R.; Scopatz, Stephen D.; and Wind, Karen L., 4,687,107, Cl. 209-556.000.

Rosasco, Leroy P. Visor. 4,670,910, 6-9-87, Cl. 2-177.000.

Rosati, Domenico, to R.O.M. S.r.l. Machine for stacking bundles of signatures and like products. 4,655,663, 4-7-87, Cl. 414-31.000.

Rosati, Domenico, to R.O.M. S.r.l. Ejector unit for machines for handling signatures and similar articles, particularly for signature-stacking machines. 4,669,720, 6-2-87, Cl. 271-256.000.

Rosati, Louis: *See*—
Casey, Donal J.; Jarrett, Peter K.; and Rosati, Louis, 4,716,203, Cl. 525-408.000.

Rosati, Riccardo; and Rebuffat, Carlo. Circular mechanical anastomotic gun. 4,681,108, 7-21-87, Cl. 128-334.00R.

Rosback, Thomas J., to Harris Corporation. Multi-band automatic gain control apparatus. 4,641,361, 2-3-87, Cl. 381-103.000.

Rosbeck, Joseph P.; and Kasai, Ichiro, to Santa Barbara Research Center. Graded gap inverston layer photodiode array. 4,639,756, 1-27-87, Cl. 357-30.000.

Rosboch, Luciano: *See*—
Astegiano, Luciano; Bertoglio, Ottavio; Bosco, Fulvio; de Bosio, Alfredo; Franco, Dario; Lampiano, Piero; Melle, Antonio; and Rosboch, Luciano, 4,706,270, Cl. 379-2.000.

Rosborough, John R.: *See*—
Guilford, Richard F.; and Rosborough, John R., 4,716,364, Cl. 324-127.000.

Rosch, Fritz, to Alcan Aluminiumwerk Nurnberg GmbH. Pistons for combustion engines and/or for compressors and connecting rods therefor. 4,667,577, 5-26-87, Cl. 92-187.000.

Rosch, Philipp: *See*—
Jager, Kurt; Rosch, Philipp; Fischl, Rolf; and Wambsganss, Heinrich, 4,670,678, Cl. 310-68.00D.

Rosch, Werner: *See*—
Batza, Willi; and Rosch, Werner, 4,710,203, Cl. 55-2.000.

Roscher, Gunter: *See*—
Fernholz, Hans; Krekeler, Hans; Roscher, Gunter; Schmidt, Hans-Joachim; Schmitz, Heinz; and Wunder, Friedrich, 4,668,819, Cl. 560-245.000.

Roschier, Nils-Robert, to Elevator GmbH. Procedure and means for producing a contrast image. 4,679,932, 7-7-87, Cl. 340-562.000.

Roschman, Peter: *See*—
Buikman, Dirk; Helzel, Thomas; and Roschman, Peter, 4,694,836, Cl. 128-653.000.

Roschmann, Klaus: *See*—
Knothe, Herbert; and Roschmann, Klaus, 4,640,745, Cl. 204-5.000.

Roschmann, Peter, to U.S. Philips Corporation. NMR-apparatus with an adjustable RF tuning circuit. 4,698,595, 10-6-87, Cl. 324-313.000.

Roschmann, Peter; and Simon, Howard E., to U.S. Philips Corporation. R.F. coil system for generating and/or receiving alternating magnetic fields. 4,712,067, 12-8-87, Cl. 324-318.000.

Rose, Bernard F., to Chevron Research Company. Fungicidal substituted N-(1-iodopropargyl)thiazolidinones. 4,639,460, 1-27-87, Cl. 514-369.000.

Rose, C. David. Security device for personal computers. 4,656,848, 4-14-87, Cl. 70-58.000.

Rose, David; Maak, Norbert; and Lieske, Edgar, to Henkel Kommanditgesellschaft auf Aktien. Amine oxidation dye hair treating compositions. 4,698,066, 10-6-87, Cl. 8-408.000.

Rose, Donald T.: *See*—
Gaskill, Garold B.; Park, Daniel J.; Rullman, Robert G.; Rose, Donald T.; Stiley, Joseph F., III; Barnum, Lewis W.; and Hoff, Don G., 4,713,808, Cl. 370-94.000.

Rose, Gerard: *See*—
Marget, Christian; and Rose, Gerard, 4,712,153, Cl. 361-91.000.

Rose, Gerard R.; and Hurlock, John R., to Nalco Chemical Company. Dimeric aluminum compounds and their use. 4,655,934, 4-7-87, Cl. 210-728.000.

Rose, Gerard R.; Kaesler, Ralph W.; and Fong, Dodd W., to Nalco Chemical Company. Anionic flocculant for dewatering steel mill sludges. 4,683,066, 7-28-87, Cl. 210-734.000.

Rose, Harald; Zach, Joachim; and Lischke, Burkhard, to Siemens Aktiengesellschaft. Arrangement for detecting secondary and/or backscatter electrons in an electron beam apparatus. 4,714,833, 12-22-87, Cl. 250-397.000.

Rose, James N. Protective covering for an adult and child during feeding of the child. 4,697,287, 10-6-87, Cl. 2-49.000.

Rose, Jed E., to University of California, The Regents of the. Aerosol for use in the reduction of tobacco smoking. 4,715,387, 12-29-87, Cl. 131-270.000.

Rose, John F., to Proximity Controls, Inc. Adjustable ratio transmission switch. 4,647,733, 3-3-87, Cl. 200-33.00D.

Rose, K. Daniel; Yarbrough, Charles; and Strachan, Alan F., to Warmwipes, Inc. Warming device for disposable towel dispenser. 4,694,973, 9-22-87, Cl. 221-46.000.

Rose, Leo J. Sea wave dissipator apparatus and method for its manufacture. 4,712,944, 12-15-87, Cl. 405-26.000.

Rose, Leroy: *See*—
Friehauf, William J.; Janssen, Donovan M.; Kirton, Alan J.; Murphy, Robert M.; and Rose, Leroy, 4,636,892, Cl. 360-97.000.
Friehauf, William J.; Janssen, Donovan M.; Kirton, Alan J.; Nard, Michael E.; and Rose, Leroy, 4,707,753, Cl. 360-106.000.

Rose, Leslie C.: *See*—
Ware, Charles H.; and Rose, Leslie C., 4,691,771, Cl. 166-245.000.

Rose, Lynn M.; Clark, Edward A.; and Ledbetter, Jeffrey A., to Genetic Systems Corporation. T-cell lymphocyte subset monitoring of immunologic disease. 4,677,061, 6-30-87, Cl. 435-39.000.

Rose, Michael A.; and Renais, Martin, to U.S. Philips Corporation. Infrared radiation detector with integral fresnel lens window. 4,682,030, 7-21-87, Cl. 250-338.000.

Rose, Michael A.; and Kidson, Paul, to U.S. Philips Corporation. Infrared intruder detection system. 4,704,533, 11-3-87, Cl. 250-342.000.

Rose, Millard F., to United States of America, Navy. Gun-firing system. 4,640,180, 2-3-87, Cl. 89-8.000.

Rose, Millard F.; and Fitch, Osa E., to United States of America, Navy. Electromagnetic induction method and apparatus therefor for collapsing and propelling a deformable workpiece. 4,656,918, 4-14-87, Cl. 89-8.000.

Rose, Neil, to Black & Decker Inc. Method for obtaining a fixing in a wall and a nozzle for use in said method. 4,674,257, 6-23-87, Cl. 52-743.000.

Rose, Peter H.; and Farley, Marvin, to Eaton Corporation. Charge density detector for beam implantation. 4,675,530, 6-23-87, Cl. 250-492.200.

Rose, Philip M.: *See*—
Kreider, David R.; McCullum, Albert; Rose, Philip M.; and Lin, Chi-Hung, 4,640,963, Cl. 526-67.000.

Rose, Philip S., to Becton, Dickinson and Company. Method for solubilizing microbial protein obtained from *Chlamydia trachomatis*. 4,663,291, 5-5-87, Cl. 435-259.000.

Rose, Richard. Bracket for supporting traction weights. 4,648,144, 3-10-87, Cl. 5-503.000.

Rose, Richard C., to AT&T Information Systems Inc. Speech response interface circuit. 4,640,992, 2-3-87, Cl. 379-89.000.

Rose, Robert D., Jr. Device for supporting bound material. 4,687,226, 8-18-87, Cl. 281-45.000.

Rose, Robert J.; and Trimble, Russell L. Modular medication dispensing system and apparatus utilizing portable memory device. 4,695,954, 9-22-87, Cl. 364-413.000.

Rose, Sam, to Bio-Response, Inc. Method for isolating product-producing cells. 4,659,655, 4-21-87, Cl. 435-7.000.

Rose, Thomas A., to Ecolotech, Inc. Sensing probe for sludge detectors. 4,673,819, 6-16-87, Cl. 250-573.000.

Rose, Thomas H., to Eastern Technical Associates, Inc. Transmissometer and optical elements therefor. 4,640,621, 2-3-87, Cl. 356-434.000.

Rose, William. Chain saw chain for digging trenches. 4,651,449, 3-24-87, Cl. 37-191.00A.

Rose, William H.: *See*—
Galloway, Michael D.; Rose, William H.; and Shaffer, David T., 4,675,989, Cl. 29-622.000.
Galloway, Michael D.; Rose, William H.; and Shaffer, David T., 4,697,863, Cl. 439-544.000.

Gingerich, David J.; Granitz, Richard F.; Rose, William H.; and Shaffer, David T., 4,673,837, Cl. 310-239.000.

Roseano, Giancarlo, to Danieli & C. Officine Meccaniche SpA. Device to count bars. 4,712,666, 12-15-87, Cl. 198-503.000.

Roseano, Giancarlo: *See*—
Braidotti, Archimede; Mini, Renzo; and Roseano, Giancarlo, 4,660,712, Cl. 198-434.000.

Roseberry, Patrick: *See*—
Glomski, Stanislas; and Roseberry, Patrick, 4,665,885, Cl. 124-27.000.

Rosebrooks, Nathan B., to Sancliff, Inc. Coating head assembly for elongated strands. 4,688,515, 8-25-87, Cl. 118-405.000.

Rosecrans, Peter M., to United States of America, Energy. Manufacturing process to reduce large grain growth in zirconium alloys. 4,647,317, 3-3-87, Cl. 148-11.50F.

Rosedale Products, Inc.: *See*—
Rosaen, Nils N., 4,701,259, Cl. 210-450.000.

Roseliep, Robert E. Flywheel starter gear and method of making. 4,686,864, 8-18-87, Cl. 74-431.000.

Rosell, Jorge E., to Bendiberica S.A. Power assisted steering system with rack and pinion particularly of the type with central output. 4,646,868, 3-3-87, Cl. 180-148.000.

Rosell, Jorge E., to Bendiberica S.A. Power assisted steering system with central output. 4,651,842, 3-24-87, Cl. 180-148.000.

Rosell, Jorge E.; and Folch, Carlos M., to Bendiberica S.A. Rotary hydraulic distributor, particularly for an assisted steering mechanism. 4,672,884, 6-16-87, Cl. 91-375.00R.

Roselle, Brian J.; and Weatherby, Dennis W., to Procter & Gamble Company, The. Automatic dishwasher detergent composition. 4,714,562, 12-22-87, Cl. 252-94.000.

Rosemann, Thomas J. Rotary cutting cylinder and method of making same. 4,715,250, 12-29-87, Cl. 76-101.00A.

Rosemeier, Friedrich: *See*—
Christopherson, Kjell H.; Odelius, Tomas; Rosemeier, Friedrich; Stenberg, Kaj O.; Svensson, Tommy E.; and Killmaier, Horst, 4,636,204, Cl. 604-283.000.

Rosemount Engineering Company Limited: *See*—
Price, Timothy D., 4,678,937, Cl. 307-311.000.

Rosemount Inc.: *See*—
Brown, Gregory C.; and Gravel, James L., 4,638,830, Cl. 137-83.000.
Brown, Gregory C., 4,653,523, Cl. 137-85.000.
Brown, Gregory C.; and Cucci, Gerald R., 4,665,938, Cl. 137-85.000.
Cucci, Gerald R.; and Peterson, Thomas P., 4,681,293, Cl. 248-603.000.
Hagen, Floyd W.; and DeLeo, Richard V., 4,645,517, Cl. 55-182.000.
Hedtke, Robert C., 4,653,330, Cl. 73-756.000.
Olson, Gene H.; and Quy, Dennis A., 4,677,612, Cl. 370-85.000.

Rosen, Arye; and Walinsky, Paul, to RCA Corporation. Percutaneous transluminal microwave catheter angioplasty. 4,643,186, 2-17-87, Cl. 128-303.100.

Rosen, Arye; and Herczfeld, Peter R., to RCA Corporation; and Drexel University. Electrical phase shifter controlled by light. 4,675,624, 6-23-87, Cl. 333-161.000.

Rosen, Arye, to RCA Corporation. Distributed pin diode phase shifter. 4,675,628, 6-23-87, Cl. 333-164.000.

Rosen, Arye: *See*—
Walinsky, Paul; Rosen, Arye; and Greenspon, Arnold J., 4,641,649, Cl. 128-303.100.

Rosen, David S.: *See*—
Hung, Paul L. K.; Radigan, Richard J.; and Rosen, David S., 4,713,298, Cl. 428-461.000.

Rosen, Frank L.: *See*—
Beveventano, Thomas; Rosen, Frank L.; Wolff, Richard H.; and Bendett, Raymond, 4,686,771, Cl. 33-324.000.
DeCarlo, Frank S.; and Rosen, Frank L., 4,693,114, Cl. 73-178.00R.

Rosen, Gerald M. Traction device. 4,641,637, 2-10-87, Cl. 128-75.000.

Rosen, Hans G.: *See*—
Haberland, Detlef; Langenwalter, Michael; Panzer, Klaus; Rosen, Hans G.; Spaeter, Lothar; Spaeth, Werner; Seibert, Bernd; and Haltenorth, Helmut, 4,707,067, Cl. 350-96.200.

Rosen, Harold. Compact self-contained fire extinguisher. 4,711,307, 12-8-87, Cl. 169-57.000.

Rosen, Harold A., and Wittmann, Alois, to Hughes Aircraft Company. Apparatus and method for transporting a spacecraft and a fluid propellant from the earth to a substantially low gravity environment above the earth. 4,699,339, 10-13-87, Cl. 244-158.00R.

Rosen, Martin; and Manley, George C., to Crosfield Electronics Limited. Method and apparatus for generating a half-tone image representation with individual groups of one or more scanning beams controlled in response to half-tone dot information and either low-or high-resolution image data. 4,647,962, 3-3-87, Cl. 358-78.000.

Rosen, Marvin E.: *See*—
Sampson, Mark E.; and Rosen, Marvin E., 4,696,244, Cl. 112-262.100.

Rosen, Max. Jewelry clasp. 4,648,161, 3-10-87, Cl. 24-589.000.

Rosen, Michael J., to Massachusetts Institute of Technology. Tremor suppressing hand controls. 4,689,449, 8-25-87, Cl. 200-6.00A.

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Chan, Ka-Kong; Holland, George W.; and Rosen, Perry, 4,642,364, Cl. 556-438.000.
Coffen, David L.; Holland, George W.; Mandeville, W. Harry; Rosen, Perry; and Wong, Frederick, 4,707,555, Cl. 549-311.000.
Holland, George W.; Maag, Hans; and Rosen, Perry, 4,634,782, Cl. 549-465.000.
Holland, George W.; Rosen, Perry; and Maag, Hans, 4,650,883, Cl. 549-312.000.
Holland, George W.; Rosen, Perry; and Maag, Hans, 4,665,198, Cl. 549-214.000.
Holland, George W.; Maag, Hans; and Rosen, Perry, 4,680,415, Cl. 549-214.000.
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Rosen, Philip: *See*—
Mee, Geoffrey R.; and Rosen, Philip, 4,636,764, Cl. 337-169.000.

Rosen, Richard A. Method and means for adapting plumbing valve stems to desired trim. 4,670,959, 6-9-87, Cl. 29-401.100.

Rosenbaum, Georges: *See*—
Grollier, Jean F.; Lang, Gerard; Forestier, Serge; and Rosenbaum, Georges, 4,656,029, Cl. 424-47.000.
Grollier, Jean F.; Cotteret, Jean; and Rosenbaum, Georges, 4,668,237, Cl. 8-424.000.
Grollier, Jean-Francois; Cotteret, Jean; and Rosenbaum, Georges, 4,668,236, Cl. 8-405.000.

Rosenbaum, Glen E.; and Harrington, Delmer C. Cartridge reloading apparatus and method. 4,675,958, 6-30-87, Cl. 29-1.320.

Rosenbaum, Herman S.: *See*—
Cheng, Bo-Ching; Rosenbaum, Herman S.; and Armijo, Joseph S., 4,659,540, Cl. 376-417.000.

Rosenbaum, Martin J. Ratchet-action open-end wrench. 4,637,284, 1-20-87, Cl. 81-179.000.

Rosenbaum, Richard J. Absorbant pad. 4,643,727, 2-17-87, Cl. 604-369.000.

Rosenbaum, Saul: *See*—
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Rosenbaum, Stanley D.; and Plett, Calvin, to Northern Telecom Limited. Voltage multiplier and voltage multipliers in an amplifier with double rail output. 4,691,271, 9-1-87, Cl. 363-60.000.

Rosenbaum, Stanley D.; and Plett, Calvin, to Northern Telecom Limited. Amplifier with double rail output. 4,713,838, 12-15-87, Cl. 379-252.000.

Rosenbaum, Walter S.: *See*—
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Rosenberg, Avner. Drip irrigator having float control valve. 4,660,769, 4-28-87, Cl. 239-542.000.

Rosenberg, Avraham; and Ziner, Carol, to State of Israel, Ministry of Defence, Israel Military Industries, The. Cluster bomb grenade with means for spin rate attenuation. 4,715,282, 12-29-87, Cl. 102-227.000.

Rosenberg, Barnett. Analgesic composition and method of relieving pain. 4,665,069, 5-12-87, Cl. 514-222.000.

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Cleare, Michael J.; Hoeschele, James D.; Rosenberg, Barnett; and Van Camp, Loretta, 4,657,927, Cl. 514-492.000.

Rosenberg, Carol S. Cushioning crutch support covering. 4,711,261, 12-8-87, Cl. 135-72.000.

Rosenberg, David J.: *See*—
Matkovich, Vlado I.; and Rosenberg, David J., 4,662,906, Cl. 55-159.000.

Rosenberg, Douwe: *See*—
Cries, Heinz; Rosenberg, Douwe; and Weinmann, Hanns-Joachim, 4,647,447, Cl. 424-9.000.

Rosenberg, Eugene: *See*—
Shoham, Yuval; Rosenberg, Eugene; and Gutnick, David L., 4,704,360, Cl. 435-99.000.

Rosenberg, Farel. Orthodontic bracket having archwire seating and locking mechanism. 4,634,662, 1-6-87, Cl. 433-10.000.

Rosenberg, Farel. Convertible, self-ligating, archwire positioning orthodontic bracket. 4,712,999, 12-15-87, Cl. 433-8.000.

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Rosenberg, Gary J.: *See*—
Anderson, Fredric E.; Grzesiak, Garry M.; and Rosenberg, Gary J., 4,662,532, Cl. 220-7.000.

Rosenberg, Gordon W.: *See*—
Bell, John, 4,667,136, Cl. 318-51.000.
Tiffin, Patrick J.; and Watkins, Baxter R., 4,671,369, Cl. 180-8.100.
Watkins, Baxter R., 4,674,584, Cl. 180-8.200.

Rosenberg, H. James, to Erie Scientific Company. Microscope slide with top and bottom marking surfaces. 4,679,914, 7-14-87, Cl. 350-534.000.

Rosenberg, Harvey S., to Battelle Memorial Institute. Process for simultaneous removal of SO_2 and NO_x from gas streams. 4,640,825, 2-3-87, Cl. 423-235.000.

Rosenberg, Heinz, to Siemens Aktiengesellschaft. Variable-speed electrical machine. 4,672,291, 6-9-87, Cl. 318-823.000.

Rosenberg, Heinz, to Siemens Aktiengesellschaft. Arrangement for recovering power loss of an internal combustion engine. 4,704,571, 11-3-87, Cl. 322-29.000.

Rosenberg, Helmut W. G., to Kendall Company, The. Nephrostomy catheter with formed tip. 4,645,490, 2-24-87, Cl. 604-103.000.

Rosenberg, Helmut W. G.; and Drach, George W., to Kendall Company, The. Catheter with removable connector. 4,692,149, 9-8-87, Cl. 604-99.000.

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Rosenberg, Helmut W. G., to Kendall Company, The. Nephrostomy catheter with formed tip. 4,705,510, 11-10-87, Cl. 604-280.000.

Rosenberg, Helmut W. G., to Kendall Company, The. Needle depth setting sheath assembly and needle stop. 4,710,171, 12-1-87, Cl. 604-117.000.
Rosenberg, Irwin H., to University Patents, Inc. Enhanced absorption of dietary mineral components. 4,689,228, 8-25-87, Cl. 424-153.000.
Rosenberg, Ivan: *See*—
Holy, Antonin; Rosenberg, Ivan; and Slama, Karel, 4,659,825, Cl. 544-244.000.
Rosenberg, Lior. Dermatome particularly useful for skin-grafting purposes. 4,630,139, 9-1-87, Cl. 128-305.500.
Rosenberg, Martin: *See*—
Auerbach, Jeffrey L.; and Rosenberg, Martin, 4,637,980, Cl. 435-68.000.
Rosenberg, Melvyn; and Weiss, Ervin, to Ramot University Authority for Applied Research and Industrial Development Ltd. Microorganism culture-transfer device. 4,687,746, 8-18-87, Cl. 435-292.000.
Rosenberg, Peretz. Water sprinkler. 4,659,015, 4-21-87, Cl. 239-116.000.
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Rosenberg, Peretz. Mutiple-disc filter. 4,661,250, 4-28-87, Cl. 210-352.000.
Rosenberg, Peretz. Quick-action on/off valve. 4,678,004, 7-7-87, Cl. 137-469.000.
Rosenberg, Peretz. Liquid spraying devices. 4,711,399, 12-8-87, Cl. 239-498.000.
Rosenberg, Philip, to Kendall Company, The. Foley catheter assembly. 4,701,162, 10-20-87, Cl. 604-103.000.
Rosenberg, Richard: *See*—
Goss, Clinton; Rosenberg, Richard; and Whyte, Peter, 4,667,290, Cl. 364-300.000.
Rosenberg, Robert: *See*—
Meyerson, Bernard S.; Joshi, Rajiv V.; Rosenberg, Robert; and Patel, Vishnubhai V., 4,647,494, Cl. 428-216.000.
Rosenberg, Ruth, to Smith-Migatz, Dena, a part interest. Stuffed animal with changeable features. 4,648,851, 3-10-87, Cl. 446-372.000.
Rosenberg, Steven A., to United States of America, Health and Human Services. Adoptive immunotherapy as a treatment modality in humans. 4,690,915, 9-1-87, Cl. 514-2.000.
Rosenberger, Mark E., to Honeywell Inc. Piezoresistive pressure transducer with elastomeric seals. 4,656,454, 4-7-87, Cl. 338-2.000.
Rosenberger, Mary E.: *See*—
Christenson, Roger M.; Rosenberger, Mary E.; and Tetenbaum, Marvin T., 4,638,020, Cl. 523-406.090.
Rosenberger, Michael: *See*—
Aig, Edward R.; Coffey, John W.; Lovey, Allen J.; and Rosenberger, Michael, 4,648,996, Cl. 260-410.90R.
Rosenblatt, Aaron A.: *See*—
Deffeyes, Kenneth S.; and Rosenblatt, Aaron A., 4,683,318, Cl. 556-173.000.
Rosenblatt, David H.; Rosenblatt, Aaron A.; and Knapp, Joseph A., 4,681,739, Cl. 422-37.000.
Rosenblatt, Arnold: *See*—
Black, Stephen J.; Hitzigrath, Richard; Rosenblatt, Arnold; and Grundy, Douglas H., 4,705,100, Cl. 165-40.000.
Rosenblatt, David H.; Rosenblatt, Aaron A.; and Knapp, Joseph A., to Scopas Technology Co., Inc., The. Use of chlorine dioxide gas as a chemosterilizing agent. 4,681,739, 7-21-87, Cl. 422-37.000.
Rosenblum, Stuart: *See*—
Bates, Hans A.; and Rosenblum, Stuart, 4,656,289, Cl. 548-303.000.
Rosenbluth, Robert F.: *See*—
Seiler, Louis, Jr.; and Rosenbluth, Robert F., 4,647,416, Cl. 264-118.000.
Rosenbusch, Helmut: *See*—
Schmidt, Otto H.; Heine, Helmut A.; and Rosenbusch, Helmut, 4,681,413, Cl. 351-205.000.
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Rosencwaig, Allan; and Opsal, Jon, to Therma-Wave, Inc. Method and apparatus for detecting thermal waves. 4,634,290, 1-6-87, Cl. 374-5.000.
Rosencwaig, Allan; and Smith, Walter L., to Therma-Wave, Inc. Method and apparatus for evaluating surface conditions of a sample. 4,636,088, 1-13-87, Cl. 374-5.000.
Rosencwaig, Allan; and Opsal, Jon, to Therma-Wave, Inc. Evaluating both thickness and compositional variables in a thin film sample. 4,679,946, 7-14-87, Cl. 374-5.000.
Rosendahl, Bengt R.: *See*—
Johansson, Alf L.; and Rosendahl, Bengt R., 4,700,798, Cl. 180-209.000.
Rosendahl Maschinen Gesellschaft m.b.H.: *See*—
Kerschbaum, Kurt; and Konicka, Alfred, 4,716,000, Cl. 264-83.000.
Rosendahl, Warren G., Jr. Coin control system. 4,676,358, 6-30-87, Cl. 194-203.000.
Rosendal, Carsten. Blanking impact absorber. 4,679,664, 7-14-87, Cl. 188-134.000.
Rosendale, John V., to Robotic Systems, Inc. Circulating latch transport mechanism for overhead cranes. 4,641,757, 2-10-87, Cl. 212-205.000.
Rosendall, Henry J., to Amway Corporation. Room air treatment system. 4,701,195, 10-20-87, Cl. 55-473.000.
Roscnde, Francisco J. B. Solar radiation collector. 4,672,948, 6-16-87, Cl. 126-438.000.
Rosener, Harvey J.: *See*—
Knierim, David L.; and Rosener, Harvey J., 4,646,078, Cl. 340-750.000.
Rosenfeld, Jeffrey L.: *See*—
Hall, Richard A.; and Rosenfeld, Jeffrey L., 4,713,421, Cl. 525-242.000.
Rosenfeld, Jerold C., to Celanese Corporation. Stabilization of aromatic polyesters with dimercaptothiadiazole. 4,678,825, 7-7-87, Cl. 524-83.000.
Rosenfeld, Jerold C.; and Pawlak, Joseph A., to Celanese Corporation. Preparation of aromatic polyester with improved stability by addition of phosphite during preparation. 4,680,371, 7-14-87, Cl. 528-179.000.
Rosenfeld, Jerold C., to Celanese Corporation. In-situ end-capping melt prepared aromatic polyester with phenyl benzoate. 4,680,372, 7-14-87, Cl. 528-179.000.
Rosenfeld, Jerome P., to RCA Corporation. Optical target ranging apparatus. 4,647,193, 3-3-87, Cl. 356-4.000.
Rosenfeld, Jerome P., to RCA Corporation. Optical pattern generation technique. 4,668,984, 5-26-87, Cl. 358-107.000.
Rosenfeld, John. Cat box litter and process for producing same. 4,686,937, 8-18-87, Cl. 119-1.000.
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Rosenfeld, Yechiel, to Base Ten Systems, Inc. Tone-responsive circuit for activating an instrumentality interfacing system. 4,644,103, 2-17-87, Cl. 379-42.000.
Rosenhouse, Harvey: *See*—
Shute, Jonathan F.; and Rosenhouse, Harvey, 4,713,228, Cl. 423-317.000.
Rosenhouse, Stanley: *See*—
Jenkins, John K.; Chiu, John S.; Eckhart, Charles G.; McNamara, Paul E.; Rosenhouse, Stanley; and Youngstrom, Richard E., 4,634,556, Cl. 540-310.000.
Rosenkoetter, Marvin W.: *See*—
Quante, Jeffrey B., III; Scoggin, Steven C.; Maxwell, Dennis L.; Rosenkoetter, Marvin W.; and Ferencik, James J., 4,709,659, Cl. 109-21.500.
Rosenkranz, Roberto P.: *See*—
Goodman, Murray; Marr-Leisy, Debra; Rosenkranz, Roberto P.; Melmon, Kenneth L.; and Verlander, Michael S., 4,687,873, Cl. 560-28.000.
Rosenlund, Terje. Method for impregnating wood, and an apparatus for carrying out the method. 4,637,952, 1-20-87, Cl. 427-297.000.
Rosenmeier, Gordon: *See*—
DuFrene, Clement O., 4,653,603, Cl. 180-146.000.
Rosenquist, Gerald A., to Felt Products Mfg. Co. Head gasket assembly for closely adjacent cylinder bores and method of making same. 4,662,643, 5-5-87, Cl. 277-235.50B.
Rosenquist, Niles R.; and Evans, Thomas L., to General Electric Company. Bis(cyclic carbonate(s), precursors thereof, and polycarbonate compositions containing them. 4,636,559, 1-13-87, Cl. 528-370.000.
Rosenquist, Niles R., to General Electric Company. Compositions. 4,638,101, 1-20-87, Cl. 568-720.000.
Rosenquist, Niles R., to General Electric Company. Carbazole compounds. 4,654,423, 3-31-87, Cl. 548-441.000.
Rosenquist, Niles R., to General Electric Company. Cyclic carbonate oligomer composition. 4,696,997, 9-29-87, Cl. 528-271.000.
Rosenquist, Niles R., to General Electric Company. Copolyester-carbonate resin containing recurring divalent units from trimellitic acid derivative. 4,701,516, 10-20-87, Cl. 528-176.000.
Rosenquist, Niles R., to General Electric Company. Aromatic bis cyclic carbonates. 4,701,537, 10-20-87, Cl. 549-228.000.
Rosenquist, Niles R.; and Miller, Kenneth F., to General Electric Company. Composition comprising bicyclic carbonate oligomer. 4,701,538, 10-20-87, Cl. 549-228.000.
Rosenquist, Niles R.: *See*—
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Rosenstock, Guenter: *See*—
Heinzl, Joachim; and Rosenstock, Guenter, 4,716,418, Cl. 346-1.100.
Rosenstock, Gunter: *See*—
Behrens, Martin; Depta, Ingolf; and Rosenstock, Gunter, 4,665,409, Cl. 346-140.00R.
Rosenstrach, Ivan; and Steinthal, Robert. Foreign currency dispenser envelope. 4,664,417, 5-12-87, Cl. 283-1.00B.
Rosensweig, Ronald E.; and Ciprios, George, to Exxon Research and Engineering Company. Process for magnetically stabilizing a fluidized bed containing nonmagnetizable particles and a magnetizable fluid. 4,668,379, 5-26-87, Cl. 208-157.000.
Rosensweig, Ronald E.: *See*—
van der Vleugel, Dominicus J. M.; Hoving, Klaas; Wortel, Theodorus M.; Rosensweig, Ronald E.; and Rees, Lovat V. C., 4,687,878, Cl. 585-820.000.
Rosenthal, Arnold B.: *See*—
Barnett, Joseph A.; Gomez, Joseph M.; Green, William F.; Lisica, Vincent M.; and Rosenthal, Arnold B., 4,714,400, Cl. 414-751.000.
Rosenthal, Brock J.: *See*—
Olsson, Mark S.; Hagey, William H.; and Rosenthal, Brock J., 4,683,523, Cl. 362-267.000.
Rosenthal, Eli: *See*—
Bedell, John R.; and Rosenthal, Eli, 4,649,254, Cl. 219-121.01D.
Rosenthal, Henry; and Kronhaus, Howard E., to Mima, Inc. Prestressed single load cell weighing systems. 4,662,463, 5-5-87, Cl. 177-164.000.

Rosenthal Herman A., to Robz Industries, Inc. Sword anti-race system. 4,688,345, 8-25-87, Cl. 244-134.00R.

Rosenthal, James M., to ACR Electronics. Ear microphone. 4,696,045, 9-22-87, Cl. 381-114.000.

Rosenthal, Jurgen. *See*—
Greubrium, Uwe, and Rosenthal, Jurgen. 4,674,369, Cl. 82-8.000.

Rosenthal, Karl-Heinz, to Bolsterner Verschlussechnik GmbH. Closure device for a container. 4,645,086, 2-24-87, Cl. 215-235.000.

Rosenthal, Karlheinz. *See*—
Schmidt, Hans-Werner; Koch, Walter; Hirsch, Martin; Rosenthal, Karlheinz; and Yetmen, Yilmaz. 4,643,885, Cl. 423-119.000.
Schmidt, Hans-Werner; Koch, Walter; Hirsch, Martin; Rosenthal, Karlheinz; and Yetmen, Yilmaz. 4,663,132, Cl. 423-119.000.

Rosenthal, Lewis H. *See*—
Sasuta, Michael D.; Rosenthal, Lewis H.; Mills, Donald C.; Marten, Russell A.; Kaiser, David J.; Sohn, Arun; and Blankenship, Johnny E., 4,698,805, Cl. 370-97.000.

Rosenthal, Manfred, and Roulaux, Jan, to U.S. Philips Corporation. Covering device for protecting the nozzle area of an ink jet writing head. 4,707,714, 11-17-87, Cl. 346-140.00R.

Rosenthal, Michael R. *See*—
Parron, Ivan, and Rosenthal, Michael R., 4,677,794, Cl. 52-36.000.

Rosenthal, Robert D., to Trebor Industries, Inc. Near infrared measuring instrument with sample holder. 4,692,620, 9-8-87, Cl. 250-343.000.

Rosenthale, Marvin E.; Shriver, David A.; and Katz, Laurence B., to Ortho Pharmaceutical Corporation. Peptic ulcer treatment method. 4,707,495, 11-17-87, Cl. 514-530.000.

Rosentreter, Ulrich. *See*—
Meyer, Horst; Franckowiak, Gerhard; Rosentreter, Ulrich; Gross, Rainer; Thomas, Gunter; Schramm, Matthias; Kayser, Michael; Seuter, Friedel; Petersen, Elisabeth; and Bechtem, Martin, 4,707,479, Cl. 514-222.000.

Rosenwald, Fred. Compensator for handguns and the like. 4,715,140, 12-29-87, Cl. 42-97.000.

Rosenwald, Peter L. Internal medication delivery method and vehicle. 4,678,866, 7-7-87, Cl. 604-891.000.

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Zaruba, John V.; Rosenwinkel, Donald A.; and Bostow, Jeffrey D., 4,662,633, Cl. 273-1.0GF.

Rosenwinkel, Karen W., to W. Braun Company. Product storage container and dispenser. 4,664,547, 5-12-87, Cl. 401-175.000.

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Roser, Erich, and Memminger, Gustav, to Memminger, Gustav. Yarn brake, particularly for textile machines. 4,660,783, 4-28-87, Cl. 242-155.00R.

Roser, Erich, and Memminger, Gustav, to Memminger, Gustav. Yarn storage and delivery arrangement, particularly for textile machines. 4,669,677, 6-2-87, Cl. 242-47.010.

Roser, Erich. *See*—
Memminger, Gustav; and Roser, Erich, 4,673,139, Cl. 242-47.010.
Memminger, Gustav; and Roser, Erich, 4,687,151, Cl. 242-54.00R.
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Roser, Walter. *See*—
Eckle, Otto; and Roser, Walter, 4,634,324, Cl. 409-209.000.
Eckle, Otto; and Roser, Walter, 4,714,390, Cl. 409-234.000.

Roset, Pierre. *See*—
Camps, Patrick; and Roset, Pierre, 4,661,181, Cl. 156-89.000.

Rosevear, John M. Area code twilight clock. 4,669,891, 6-2-87, Cl. 368-21.000.

Rosevear, Judi. *See*—
Evans, Neil A.; Leaver, Ian H.; Rosevear, Judi; Waters, Peter J.; and Wiltshire, John F. K., 4,668,235, Cl. 8-115.500.

Rosevere, Ronald N., to Babcock & Wilcox Company, The. Apparatus for measuring the pitch between adjacent rods in a nuclear fuel assembly. 4,645,634, 2-24-87, Cl. 376-245.000.

Roshala, John L., to Trio-Tech. Device for loading components into a centrifuge to be tested. 4,685,853, 8-11-87, Cl. 414-404.000.

Rosheuvel, Mark F. Compact robot wrist actuator. 4,688,866, 8-18-87, Cl. 74-479.000.

Roshoum, Mark E., to Sperry Corporation. Superconducting connector. 4,691,973, 9-8-87, Cl. 439-161.000.

Roshoum, Mark E. Wrist tendon actuator. 4,699,019, 10-13-87, Cl. 74-479.000.

Rosier, Brian K., to Sprague Electric Company. Logic controlled switch to alternate voltage sources. 4,694,430, 9-15-87, Cl. 365-189.000.

Rosier, Brian K. *See*—
Hankins, Kevin T.; Michael, Mark W.; Rosier, Brian K.; and Moser, Jay D., 4,635,345, Cl. 29-577.00C.
Hankins, Kevin T.; Michael, Mark W.; Moser, Jay D.; and Rosier, Brian K., 4,701,760, Cl. 357-51.000.
Pan, David S.; Sarma, Kosuk C.; Hallacre, Mark A.; Owens, Alexander H.; and Rosier, Brian K., 4,706,102, Cl. 357-23.500.

Rosier, Charles D. *See*—
Salvage, Seward T.; Belcher, Donald K.; and Rosier, Charles D., 4,700,153, Cl. 333-81.00R.

Rosier, Jean-Claude; Fouche, Claude; and Maincent, Gabriel, to Societe Europeenne de Propulsion. Apparatus for digitalizing an image by

Rosier, Jean-Claude, to Societe Europeenne de Propulsion. High resolution image restitution apparatus for a plane film supplied from a roll and cut into film portions. 4,680,541, 8-11-87, Cl. 346-108.000.

Rosier, Jean-Claude, to Societe Europeenne de Propulsion. Device for the restitution and/or analyzing of color images, using tube type fiber optics cathode ray tube. 4,694,221, 9-15-87, Cl. 315-10.000.

Rosigkeit, Heinrich. *See*—
Hescher, Manfred; and Rosigkeit, Heinrich, 4,649,441, Cl. 360-64.000.

Rosilio, Charles. *See*—
Brignac, Francois; Giral, Louis; Rosilio, Charles; and Schue, Francois, 4,699,288, Cl. 430-270.000.

Ross, Michael L., and Wing, Feagin A., Jr., to Olin Corporation. Polyurethane foam for cleaning and germicidal applications. 4,654,234, 3-31-87, Cl. 427-393.500.

Rossi, Paolo; Finauriti, Roberto; and Garbossi, Maurizio, to SGS-ATES Componenti Elettronici S.p.A. Integrated structure microcomputer provided with non-volatile RAM memory. 4,631,467, 1-20-87, Cl. 365-228.000.

Rossink, Albert, deceased (by Rossink, Liesebette, heiress), to Albert Rossink Maschinenbau Gmbh. Can cooler. 4,694,540, 9-22-87, Cl. 29-150.00R.

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Rossinski, Edward J., to Mobil Oil Corporation. Enhancement of shape selectivity of zeolites. 4,678,766, 7-7-87, Cl. 502-65.000.

Rossland, James A., to Harris Corporation. Digital baseband selective filter. 4,733,786, 12-15-87, Cl. 364-715.000.

Rosloo, Henry L., to Harris Corporation. Zener structures with connections to buried layer. 4,652,895, 3-24-87, Cl. 357-13.000.

Rosloo, Kenneth B. *See*—
Kay, Edward L.; and Rosloo, Kenneth B., 4,699,968, Cl. 528-61.000.

Roslonski, Don. Method and apparatus for the disintegration and destruction of hazardous and toxic sludge materials. 4,655,932, 4-7-87, Cl. 210-709.000.

Rosman, Alan H., to Dynamic Hydraulic Systems, Inc. Hydraulically operated hoist for containerized freight or the like. 4,665,698, 5-19-87, Cl. 60-414.000.

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Rosman, Morris. Method of making a two-section toilet container. 4,683,703, 8-4-87, Cl. 53-456.000.

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Rosner, Mark S. Portable rapid massive parenteral fluid warming and infusion apparatus. 4,676,460, 7-7-87, Cl. 604-113.000.

Rosner, Peter. *See*—
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Rosol, Jaroslav. *See*—
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Rosquist, Von D. Bed or bunk torsion spring suspension system. 4,713,851, 12-22-87, Cl. 5-118.000.

Ross, Arthur L., to General Electric Company. Electrical connector. 4,635,093, 1-6-87, Cl. 357-80.000.

Ross, Barry C.; and Michael, Jeffrey D., to Hoechst UK Limited. Thiazole derivatives. 4,649,145, 3-10-87, Cl. 514-370.000.

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Cooke, Michael D.; and Ross, Barry C., 4,684,640, Cl. 514-395.000.
Michael, Jeffrey D.; and Ross, Barry C., 4,650,893, Cl. 556.000.

Ross, Barry S. *See*—
Hudspeth, Thomas; and Ross, Barry S., 4,652,841, Cl. 333-107.000.

Ross Bicycles, Inc. *See*—
Ross, Sherwood B., 4,657,244, Cl. 272-73.000.
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Ross, Charles, Jr., to Grandoc Corporation. Multi-ply glove or mitt construction. 4,662,006, 5-5-87, Cl. 2-158.000.

Ross, Christopher P., to Ipeco Europe Limited. Mobile loader. 4,690,606, 9-1-87, Cl. 414-495.000.

Ross, Colin F. *See*—

Ross, Cyrus A., and Thurow, Eberhard, to Les Explosifs Nordex Liee/Nordex Explosives Ltd. Mix-delivery system for explosives. 4,695,275, 9-51-87, Cl. 86-20.150.

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Ross, Daniel P. *See*—
Huang, Chin Y., and Ross, Daniel P., 4,691,176, Cl. 331-2.000.

Ross Daniels, Inc., *See*—
Daniels, Jay S., 4,705,218, Cl. 239-271.000.

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Ross, David F., to Babcock & Wilcox Company, The. Combustibles sensor. 4,663,057, 5-5-87, Cl. 204-409.000.

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Ross, David P., to Westinghouse Electric Corp. Electromagnetic projectile launcher with explosive-start and plasma drive. 4,698,532, 10-6-87, Cl. 310-12.000.

Ross, David S. *See*—
Carr, Richard V. C., Toseland, Bernard A., and Ross, David S., 4,642,396, Cl. 568-834.000.

Ross, Dennis *See*—
Fife, Robert M., Ross, Dennis, and Shaw, Richard F., 4,685,031, Cl. 361-413.000.

Ross, Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, Karl-Friedrich; Muhlich, Albert; Rau, Karlheinz; Ruffing, Wolfgang; Simsa, Fritz; Steinlehl, Anton; and Takke, Ralf, to Heraeus Quarzschmelze GmbH. Method for the continuous building of a hollow cylindrical work body having no internal support. 4,676,814, 6-30-87, Cl. 65-3.120.

Ross, Edgar *See*—
Straka, Robert; Ross, Edgar; and Vandervoer, Fred, 4,690,228, Cl. 426-446.000.

Ross, Edward T., to Del Monte Corporation. Apparatus for peeling pineapples. 4,653,393, 3-31-87, Cl. 99-542.000.

Ross, Frank E., and Hunter, William H., to Maytag Company, The. Rotating antenna for a microwave oven. 4,641,006, 2-3-87, Cl. 219-10.55F.

Ross, Gerald F., and Robbins, Kenneth W., to Sperry Corporation. Narrow range gate baseband receiver. 4,695,752, 9-22-87, Cl. 307-510.000.

Ross, Gerald F. *See*—
Crimm, Harry M., and Ross, Gerald F., 4,685,040, Cl. 342-17.000.
Lamendorf, David; Robbins, Kenneth W., and Ross, Gerald F., 4,698,633, Cl. 342-42.000.

Ross, Gordon A. *See*—
Stevenson, Alexander J.; Ross, Gordon A., and Manson, Donald C., 4,675,551, Cl. 307-443.000.

Ross, Graham J., to Pneumatic Scale Corporation. Accumulator, 4,714,152, 12-22-87, Cl. 198-347.000.

Ross, Gunther *See*—
Band, Gerhard, and Ross, Gunther, 4,651,426, Cl. 33-1.00M.

Ross, Henry M. Apparatus for forming sausage products. 4,642,847, 2-17-87, Cl. 17-1.00F.

Ross, Herbert G., Jr. *See*—
Hinds, Robert C., and Ross, Herbert G., Jr., 4,635,480, Cl. 73-322.500.

Ross, Hugh M. *See*—
Collinson, Christopher D., and Ross, Hugh M., 4,630,950, Cl. 219-551.000.

Ross, Ian F., to Ferranti, plc. Waveguide laser. 4,703,489, 10-27-87, Cl. 372-64.000.

Ross, James M. *See*—
Churchill, Thomas L., and Ross, James M., 4,704,306, Cl. 73-660.000.

Ross, James W., Jr., Goldring, Lionel S., and Riseman, John H., to Orion Research Puerto Rico, Inc. Method of and apparatus for chromatographic analysis. 4,672,042, 6-9-87, Cl. 436-161.000.

Ross, Jay B. *See*—
Koster, Robert J., and Ross, Jay B., 4,659,313, Cl. 434-45.000.

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Crawford, Donald C.; Ross, Jeffrey L.; Strike, Gary P., and Mory, Steven W., 4,712,357, Cl. 53-450.000.

Ross, John F. *See*—
Robins, Ian; Ross, John F., and Webb, Brian C., 4,650,561, Cl. 204-416.000.

Ross, John H. Jaw exercise device. 4,650,182, 3-17-87, Cl. 272-95.000.

Ross, John J. Freestanding luminaire having floor-supported frame integrated with light fixture. 4,680,677, 7-14-87, Cl. 362-33.000.

Ross, John J. *See*—
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Ross, Joseph and Schmidt, Richard, to Robotic Vision Systems, Inc. Method of three-dimensional measurement with few projected patterns. 4,634,278, 1-6-87, Cl. 356-376.000.

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Ross, Joseph; and Schmidt, Richard, to Robotic Vision Systems, Inc. Method of three-dimensional measurement with few projected patterns. 4,648,717, 3-10-87, Cl. 356-376.000.

Ross, Joseph; and Stern, Howard, to Robotic Vision Systems, Inc. Robot cell safety system. 4,652,205, 3-24-87, Cl. 414-730.000.

Ross, Joseph. *See*—
Schmidt, Richard; Stern, Howard; Mauro, Alex; and Ross, Joseph, 4,682,894, Cl. 356-375.000.

Ross, Joseph L. *See*—
Garbade, Robert J.; Johnson, Axel R.; Ross, Joseph L., and Duncan, Dennis A., 4,663,019, Cl. 208-50.000.

Ross, Kenneth M. *See*—
Thompson, Craig W., and Ross, Kenneth M., 4,688,195, Cl. 364-300.000.

Ross, Laurence W. *See*—
Kruetemeier, Rickie F., and Ross, Laurence W., 4,713,164, Cl. 204-400.000.

Ross, Lawrence J. *See*—
Asato, Goro, and Ross, Lawrence J., 4,649,159, Cl. 514-554.000.

Ross, Lent A., III, and Boykin, Thurman L., to Advanced Storage, Inc. Grain storage unit and method of use thereof. 4,660,337, 4-28-87, Cl. 52-192.000.

Ross, Linda A. *See*—
Bagiaski, Richard M.; Denis, Bernard C.; Ross, Linda A., and Soule, Ralph H., Jr., 4,652,392, Cl. 252-109.000.

Ross, Ludwig *See*—
Gliemeroth, Georg; Ross, Ludwig; Eichhorn, Uwe; Hoelzel, Eva G., and Spatt, Burkhard, 4,686,196, Cl. 501-13.000.

Ross, Malcolm G.; May, Joe T., and Hale, Steven D., to Colight, Inc. Integrating photometer. 4,644,165, 2-17-87, Cl. 250-372.000.

Ross, Mark S. *See*—
Buyan, Frank M., and Ross, Mark S., 4,650,566, Cl. 208-153.000.
Buyan, Frank M., and Ross, Mark S., 4,714,541, Cl. 208-161.000.

Ross, Milton D. *See*—
Arbogast, William C., Jr.; Boutcher, Andrew G., Jr.; Folk, Kenneth F.; Richart, Stephen D., and Ross, Milton D., 4,649,636, Cl. 29-861.000.

Ross, Milton I. Encapsulated electronic circuit device, and method and apparatus for making same. 4,680,617, 7-14-87, Cl. 357-72.000.

Ross, Nicholas V., to Ajax Magthermic Corporation. Apparatus for overheating edges of skelp for the production of compression welded pipe. 4,694,134, 9-15-87, Cl. 219-10.790.

Ross, Oakley G., Kline, Mark L., and Wedertz, Larry D., to General Dynamics, Pomona Division. Electrically-isolating coupler suitable for high pressure cryogenic gas flow. 4,648,926, 3-10-87, Cl. 156-155.000.

Ross, Oakley G. *See*—
Kline, Mark L., and Ross, Oakley G., 4,647,778, Cl. 250-352.000.
Wedertz, Larry D.; Ross, Oakley G., and Protodja, David H., 4,688,040, Cl. 342-3.000.

Ross, Paul F., II. *See*—
Kirschel, Joseph L.; Purvis, Michael J., and Ross, Paul F., II, 4,705,076, Cl. 137-883.000.

Ross, Paul R., Jr. *See*—
Newcamp, George C.; Johnston, Robert F., Jr.; McConnell, John F.; Ross, Paul R., Jr.; Campolo, Richard A., and Peter, John W., 4,668,272, Cl. 65-335.000.

Ross, Peter F.; Rodgers, Ian W., and Goodings, Rupert L. A., to Crosfield Electronics Limited. Codeword decoding. 4,647,908, 3-3-87, Cl. 340-347.0DD.

Ross, Peter W., to Standard Telephones and Cables Public Limited Company. Thermal image sensor with means for converting a phase image into an insty modulated image. 4,670,654, 6-2-87, Cl. 250-331.000.

Ross, Peter W. *See*—
Crossland, William A.; Ross, Peter W., and Collings, Neil, 4,653,857, Cl. 350-320.000.

Ross Pulp and Paper Inc. *See*—
Masse, Serge, 4,693,405, Cl. 226-91.000.

Ross, Richard J., and Klumpyan, Joseph N., to Baker Oil Tools, Inc. Injection control device for subterranean well conduit. 4,648,457, 3-10-87, Cl. 166-332.000.

Ross, Richard J., and Klumpyan, Joseph N., to Baker Oil Tools, Inc. Injection control device for subterranean well conduit. 4,662,452, 5-5-87, Cl. 166-334.000.

Ross, Richard S.; Friedman, John E., and Freelman, James A., to Tri-Rel, Inc. Convertible lounge chair/tote bag. 4,687,248, 8-18-87, Cl. 297-129.000.

Ross, Robert. *See*—
McClain, Ray; Ross, Robert, and Beach, Donald R., 4,664,791, Cl. 209-421.000.

Ross, Robert E. *See*—
Straka, Robert; Ross, Robert E., and Vandervoer, Fred, 4,650,301, Cl. 425-376.00R.
Thulin, Robert; Ross, Robert E., and Pohlfrom, Nicholas, 4,698,001, Cl. 425-133.100.

Ross, Robert H., to Seco/Warwick Corporation. Vertical air flow ingot pusher furnace. 4,676,743, 6-30-87, Cl. 432-152.000.

Ross, Robert L. *See*—
Ackley, Charles E., Jr., and Ross, Robert L., 4,657,130, Cl. 198-397.000.

Ross, Robert N., and Lippert, Roy O., to Joy of Painting, The. Paint dispenser, 4,655,373, 4-7-87, Cl. 222-309.000.

Ross, Roger F.: *See*—
DeGeorge, Peter J.; Ross, Roger F.; and Sims, Donald E., 4,687,355, Cl. 400-76.000.
Ross, Ron S., Sr.; and Goff, Claude W., Sr. Aerated live well. 4,712,327, 12-15-87, Cl. 43-57.000.
Ross, Ronald J.; and Sherman, John D.; to Union Carbide Corporation. Process for the preparation of high-level ion-exchanged zeolites. 4,666,693, 5-19-87, Cl. 423-328.000.
Ross, Ronald J.: *See*—
Sherman, John D.; Nagji, Moez M.; Ross, Ronald J.; Ausikaitis, Joseph P.; and Garg, Desh R., 4,663,052, Cl. 210-679.000.
Ross, Rudi: *See*—
Heimel, Helmut; Randow, Albert; Ross, Rudi; and Wiegleb, Gerhard, 4,674,884, Cl. 356-440.000.
Ross, Sherwood B., to Ross Bicycles, Inc. Exercise bicycle. 4,657,244, 4-14-87, Cl. 272-73.000.
Ross, Sherwood B., to Ross Bicycles Inc. Latch. 4,678,090, 7-7-87, Cl. 211-150.000.
Ross, Sidney A.; and Taylor, Lyn P. Method and system for utilizing electro-neuro stimulation in a bio-feedback system. 4,690,142, 9-1-87, Cl. 128-419.00R.
Ross, Stephen J.: *See*—
Anderson, Roy W.; Ross, Stephen J.; and Henderson, Larry D., 4,715,723, Cl. 366-142.000.
Ross, Stephen T.: *See*—
Kaiser, Carl; Kruse, Lawrence I.; and Ross, Stephen T., 4,634,711, Cl. 514-341.000.
Ross, Stuart E.: *See*—
Lewis, Kenneth A.; Alpern, Alan N.; Frank, Andrew C.; and Ross, Stuart E., 4,715,045, Cl. 375-58.000.
Ross, Thomas A.: *See*—
Zagar, Gregory J.; Ross, Thomas A.; and Lowry, Billy C., 4,657,140, Cl. 206-397.000.
Ross, Thomas F. Portable scaffold and retrofit kit therefor. 4,662,476, 5-5-87, Cl. 182-13.000.
Ross, Werner: *See*—
Bode, Werner; Franz, Peter; Ross, Werner; and Schulze, Gunter, 4,667,394, Cl. 29-597.000.
Ross, William E.: *See*—
Anderson, Robert H.; Ross, William E.; and Maki, Theodore R., 4,661,809, Cl. 340-783.000.
Ross, William J.: *See*—
Baker, Stephen R.; and Ross, William J., 4,675,335, Cl. 514-381.000.
Rossato, Charles L.; and Renaud, Loic M.; to Societe Hesston S.A. Lifting device for pick-up roll baler machines for all types of harvesting. 4,669,257, 6-2-87, Cl. 56-341.000.
Rossberg, Rolf; and Schmid, Peter; to International Standard Electric Corporation. Arrangement for visualizing the cores of optical waveguides. 4,660,972, 4-28-87, Cl. 356-73.100.
Rossborough, Richard F.; and Whitty, Graeme; to Chapman, M. J.; Sherlock, G. K.; Kilby, J. F.; and Robertson, R. W. Apparatus for cleaning paint roller. 4,711,258, 12-8-87, Cl. 134-138.000.
Rosse, Gabriel: *See*—
Colin, Yves; Rosse, Gabriel; Guyader, Jean; and Laurent, Yves, 4,695,432, Cl. 422-98.000.
Rossean, Larry D.: *See*—
Ambrosius, William H., III; and Rossean, Larry D., 4,649,474, Cl. 364-200.000.
Rosseel, Rik; Decock, Bernard; Wyffels, Marc; and Ampe, Frank; to N.V. Weefautomaten Picanol. Adjustable control of the weft on a weaving loom. 4,673,004, 6-16-87, Cl. 139-435.000.
Rosser, Michael C.; to Production Equipment & Engineering Co. Pressure actuated clamp for truss manufacturing equipment. 4,660,815, 4-28-87, Cl. 269-22.000.
Rosser, William D.; and Hochman, Howard; to GTE Government Systems Corporation. Multilayer antenna aperture polarizer. 4,652,886, 3-24-87, Cl. 343-756.000.
Rosset, Roger; and Mayeur, Jacques; to SEB S.A. Steam-generating device and a cooking oven equipped with said device. 4,697,067, 9-29-87, Cl. 219-401.000.
Rossetti, Anthony J.; and Nysen, Paul A.; to X-Cyte, Inc. Interrogator/receiver system for use with a remote transponder. 4,703,327, 10-27-87, Cl. 342-44.000.
Rossetti, Edoardo; to Corob S.R.L. Automatic Machinery Project, Method and machine for batching coloring agents into paints and varnishes. 4,705,083, 11-10-87, Cl. 141-104.000.
Rossetti, James J.; to Advanced Tool Technology, Inc. Method of preparing a template. 4,710,334, 12-1-87, Cl. 264-102.000.
Rossetti, Nazzareno: *See*—
Murari, Bruno; Pasetti, Mauro; and Rossetti, Nazzareno, 4,714,897, Cl. 330-288.000.
Rossey, Guy; and Legroux, Didier; to Synthelabo. Isoquinoline derivatives and their preparation. 4,656,278, 4-7-87, Cl. 546-140.000.
Rossey, Guy: *See*—
Raizon, Bernard; Rossey, Guy; and Wick, Alexander, 4,638,080, Cl. 560-35.000.
Rossi, Albert: *See*—
Tack, Robert D.; Pearce, Sarah L.; and Rossi, Albert, 4,713,088, Cl. 44-62.000.
Rossi, Alessandro: *See*—
Bernardi, Luigi; Temperilli, Aldemio; Bossuo, Germano; Traquandi, Gabriella; Eccel, Rosanna; Rossi, Alessandro; and Salvati, Patricia, 4,675,404, Cl. 544-238.000.
Rossi, Anthony J., to General Electric Company. Prime mover speed sensing system and method. 4,667,114, 5-19-87, Cl. 290-40.00A.
Rossi, Attilio: *See*—
Turturro, Michael; and Rossi, Attilio, 4,656,940, Cl. 101-350.000.
Rossi & Catelli S.p.A.: *See*—
Catelli, Camillo, 4,707,372, Cl. 426-481.000.
Rossi, Eva-Maria; and Tietze, Armin R., to International Business Machines Corporation. Magnetic recording disk with improved lubricant retention. 4,693,908, 9-15-87, Cl. 427-130.000.
Rossi, Frank R. Novelty display device. 4,641,445, 2-10-87, Cl. 40-410.000.
Rossi, Guglielmo, to Ranco Incorporated. Snap-action switch for alternating current. 4,647,737, 3-3-87, Cl. 200-67.00F.
Rossi, Irving. Process and apparatus for making thin steel slabs. 4,709,745, 12-1-87, Cl. 164-484.000.
Rossi, Louis J.: *See*—
Hung, Yann; Klose, Thomas R.; Regan, Michael T.; and Rossi, Louis J., 4,701,396, Cl. 430-58.000.
Ng, Yee S.; Rossi, Louis J.; and Santilli, Domenic, 4,654,282, Cl. 430-54.000.
Rossi, Nicholas J.; and Gaburo, Edward B., to Manville Corporation. Method for spray applying a refractory layer on a surface and the layer produced thereby. 4,664,969, 5-12-87, Cl. 428-284.000.
Rossi, Remo J., to Grady, John K. Spherical X-ray angulation and patient tilting system. 4,653,083, 3-24-87, Cl. 378-196.000.
Rossi, Robert D.; and Ray-Chaudhuri, Dilip K., to National Starch and Chemical Corporation. High temperature stable acrylic adhesive compositions employing aromatic polyimide and polyisomide bis-acetylene additives. 4,644,040, 2-17-87, Cl. 525-426.000.
Rossi, Victor L.: *See*—
Butts, Gary; Sydo, Lukas; and Rossi, Victor L., 4,578,347, Cl. 384-43.000.
Rossi, Walter G. Wheel wrench support. 4,660,447, 4-28-87, Cl. 81-462.000.
Rossie, Joseph F., to Sundstrand Corporation. Flanged stator assembly for dynamoelectric machine. 4,652,782, 3-24-87, Cl. 310-217.000.
Rossier, Jean-Robert: *See*—
Bentzen, Craig L.; Guyon-Gellin, Yves; Kalathakis, Kyriacos; Phan, Hieu T.; Nguyen Mong, Lan; Niesor, Eric; and Rossier, Jean-Robert, 4,696,920, Cl. 514-89.000.
Rossigno, Louis P.; and Fulmer, Keith H.; to Allied Corporation. Tandem brake booster. 4,665,800, 5-19-87, Cl. 91-376.00R.
Rossignol, Francois: *See*—
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Leblanc, Jean; Pigeroulet, Jean; and Rossignol, Francois, 4,669,659, Cl. 239-91.000.
Rossignol, Robert, to Pomagalski S.A. Passenger aerial cableway. 4,662,285, 5-5-87, Cl. 104-173.200.
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Gobrecht, Jens; and Rossinelli, Marco, 4,634,495, Cl. 156-643.000.
Rossini, James L. Variable length socket extension and screwdriver. 4,703,677, 11-3-87, Cl. 81-471.000.
Rossiter, Valentine J. Multi-mode cell for spectroscopy. 4,674,875, 6-23-87, Cl. 356-244.000.
Rosskopf, Gerhard; Seidel, Dietrich; and Wieland, Heinrich, to Intermedicat GmbH. Process for the selective extracorporeal separation of blood constituents. 4,648,974, 3-10-87, Cl. 210-651.000.
Rosslenbroich, Hans-Jurgen: *See*—
Gauss, Walter; Kabbe, Hans-Joachim; Paulus, Wilfried; Rosslenbroich, Hans-Jurgen; and Brandes, Wilhelm, 4,644,000, Cl. 514-260.000.
Rossler, Manfred: *See*—
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Rossman, Axel, to MTU Motoren-und Turbinen-Union Munchen GmbH. Method for manufacturing powder material and shaped products utilizing the conditions in outer space. 4,710,346, 12-1-87, Cl. 419-68.000.
Rossman, John R. Expansion fit interior storm window assembly. 4,676,024, 6-30-87, Cl. 49-62.000.
Rossman, Wendell E., to Ensphere Concept International, Inc. Timber joint. 4,671,693, 6-9-87, Cl. 403-174.000.
Rossmann, Axel; Hoffmueller, Wilhelm; and Eichner, Josef, to MTU Motoren-und Turbinen-Union Munchen GmbH. Rotor of a compressor, more particularly of an axial-flow compressor. 4,671,735, 6-9-87, Cl. 415-172.00A.
Rossmann, Axel; and Huther, Werner, to MTU Motoren-und Turbinen-Union Munchen GmbH. Method of hot isostatic pressing of a porous silicon ceramic compact. 4,692,288, 9-8-87, Cl. 264-56.000.
Rossmann, Christian; Fluechter, Horst; Schreiber, Gerald; and Wichelhaus, Winfried, to Henkel Kommanditgesellschaft auf Aktien. Two component alkaline cleaning compositions and methods of preparing and using same. 4,695,396, 9-22-87, Cl. 252-135.000.
Rossmann, Dieter, to Carl-Zeiss-Stiftung. Zoom lens mount. 4,671,622, 6-9-87, Cl. 350-430.00A.
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Rossmoore, Harold W., to Board of Governers of Wayne State University. Synergistic antimicrobial or biocidal mixtures. 4,666,616, 5-19-87, Cl. 252-11.000.
Rossmoore, Harold W., to Board of Governors of Wayne State University, The. Synergistic antimicrobial or biocidal mixtures. 4,707,287, 11-17-87, Cl. 252-11.000.
Rossmoore, Harold W., to Board of Governors of Wayne State University, The. Synergistic antimicrobial or biocidal mixtures. 4,708,809, 11-24-87, Cl. 252-11.000.

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Rossnagel, Steven M.: *See*—
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Rossner, Heinrich-Otto: *See*—
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Bebber, Hans J.; Neuschutz, Dieter; and Rossner, Heinrich-Otto. 4,713,826, Cl. 373-22.000.
Rosso, Antonio: *See*—
Corato, Renzo; Ganapini, Giulio; Meier, Hans-Anton; Poggi, Mauro; Rosso, Antonio; and Sanchioni, Sergio. 4,674,975, Cl. 432-11.000.
Rossof, Arthur H.: *See*—
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Kuhl, Wilfried; Klug, Leonhard; Rost, Bernd; and Schilling, Wolfgang, 4,672,323, Cl. 324-460.000.
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Dedden, Hubert; Forster, Dietrich; Rost, Horst; and Zembrod, Alfred, 4,665,036, Cl. 435-301.000.
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Rostaing, Paul: *See*—
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Rosteck, Paul R., Jr.: *See*—
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Roster, Thomas A., to Non-Toxic Components, Inc. One-piece wad structure adapted for reloading of hard shot. 4,676,170, 6-30-87, Cl. 102-449.000.
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Rostin, Gunther; Tomm, Dagwin; and Hartig, Franz, to Fichtel & Sachs AG. Clutch disc for a motor vehicle friction clutch. 4,715,485, 12-29-87, Cl. 192-106.200.
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Rostron, Joseph R.: *See*—
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Roszel, Lynn; and Tabor, Jim, to Prescolite, Inc. Dimmer circuit with input voltage compensated soft start circuit. 4,680,536, 7-14-87, Cl. 323-321.000.
Roszkowski, Adolph P., to Syntex (U.S.A.) Inc. Treatment of Alzheimer's disease. 4,647,580, 3-3-87, Cl. 514-464.000.
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Lively, Gordon R.; and Lang, Jerry M., 4,638,676, Cl. 74-31.000.
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Rotaque (Proprietary) Limited: *See*—
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Rotar, Lawrence J. Lock nut for automobile stereo systems. 4,668,143, 5-26-87, Cl. 411-140.000.
Rotary Marine, Inc.: *See*—
Clarke, Alvin W.; and Collins, Arville J., 4,674,293, Cl. 62-240.000.
Rotatrim Limited: *See*—
Hume, Kenneth J., deceased; and Ogborne, Laurence N., 4,686,876, Cl. 83-455.000.
Rotella, Thomas B. Stock price tracking apparatus. 4,677,933, 7-7-87, Cl. 116-313.000.
Rotermund, Hermann; Wiesmann, Herbert L.; and Leiendecker, Arno, to VS Vereinigte Spezialmoebelfabriken Verwaltungs GmbH. Composite bar section. 4,676,469, 6-30-87, Cl. 248-243.000.
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Roth, Arthur A.: *See*—
Rudy, Michael; Cary, Paul; Anderson, Gary S.; and Roth, Arthur A., 4,685,095, Cl. 369-36.000.
Roth, Bernard: *See*—
Luckey, George W.; Roth, Bernard; Brendel, Kathleen F.; and Den Dunne, Margaret S., 4,710,637, Cl. 250-486.100.
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Viannay, Stephane G. J.; Roth, Bernard M.; Mirigay, Solange M. V.; and Chastang, Georges J. B., 4,711,431, Cl. 266-114.000.
Roth, Bruce D., to Warner-Lambert Company. Trans-6-[2-(3- or 4-carboxamido-substituted pyrrol-1-yl)alkyl]-4-hydroxypyran-2-one inhibitors of cholesterol synthesis. 4,681,893, 7-21-87, Cl. 514-422.000.
Roth, Bruce D.: *See*—
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Roth, C. Deane: *See*—
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Roth, Charles H., Jr.: *See*—
Kapoor, Anoop; Choby, Edward J.; Kramer, Thomas J.; Ranieri, James E.; Roth, Charles H., Jr.; Scheffer, Donald E.; Spehar, John E., Jr.; Bessko, Csaba; and Blumstein, Robert M., 4,715,111, Cl. 29-723.000.
Senger, Robert D.; Pirl, William E.; and Roth, Charles H., Jr., 4,713,952, Cl. 72-53.000.
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Armer, Leon N., Jr.; Antonio, Joseph M.; Roth, Craig A.; and VerWeire, James R., 4,684,137, Cl. 273-428.000.
Armer, Leon N., Jr.; Antonio, Joseph M.; Roth, Craig A.; and VerWeire, James R., 4,690,061, Cl. 102-401.000.
Roth, David W., to 2500 Corporation, The. Floor mat mounting system. 4,673,603, 6-16-87, Cl. 428-85.000.
Roth, Donald J., to Continental Can Company, Inc. Closure having a pull tab and a controlled seal width at the pull tab. 4,693,391, 9-15-87, Cl. 220-359.000.
Roth, Donald J.: *See*—
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Roth, Emil: *See*—
Thalmann, Alfred; Lehmann, Ernesto; Roth, Emil; and Gerber, Walter, 4,642,154, Cl. 156-272.200.
Roth, Emile M.: *See*—
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Roth, Eric M. Roller brush. 4,642,831, 2-17-87, Cl. 15-1.50R.
Roth, G. Thomas: *See*—
Brass, Robert L.; Glaberson, John; Mason, Richard W.; L'Heureux, Arthur J., III; Santulli, Scott; Roth, G. Thomas; Frega, John; and Eniolek, Henry S., 4,692,603, Cl. 235-454.000.
Roth, Gary L., to Intellicard International, Inc. Unitary, self-contained consumer transaction card. 4,707,594, 11-17-87, Cl. 235-488.000.
Roth, Herman. Knockdown housing structure. 4,677,797, 7-7-87, Cl. 52-94.000.
Roth, Howard. Pegboard mounted tool holder. 4,681,233, 7-21-87, Cl. 211-70.600.
Roth, Jack: *See*—
Hawley, Michael E.; and Roth, Jack, 4,704,064, Cl. 414-592.000.
Roth, James A.; Canning, Peter C.; and Chiang, Yu-Wei, to Iowa State University Research Foundation, Inc. Vaccines for counteracting inhibition of neutrophil degranulation. 4,701,323, 10-20-87, Cl. 424-88.000.
Roth, James E., to Intertherm Inc. Trim-to-length duct. 4,667,702, 5-26-87, Cl. 138-162.000.
Roth, James E., to Intertherm Inc. Three-member plastic rooftop air conditioner housing. 4,672,818, 6-16-87, Cl. 62-239.000.
Roth, James E.; and Bales, David W., to Nordyne, Inc. Ceiling distributor duct assembly for rooftop air conditioners. 4,709,623, 12-1-87, Cl. 98-40.050.
Roth, James E.: *See*—
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Roth, Joseph A.; and Smith, Thomas A., to Eastman Kodak Company. Sodium ion selective electrode and method of use. 4,708,776, 11-24-87, Cl. 204-1.00T.
Roth, Mark: *See*—
Rock, Dan; Roth, Mark; and Sagan, Stephen F., 4,678,332, Cl. 356-328.000.
Roth, Martin, to Ciba-Geigy Corporation. 2,3-dimethylmaleimido-alkyl haloacetates. 4,656,292, 4-7-87, Cl. 548-548.000.
Roth, Michael: *See*—
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Roth, Philip M.; Itskovitch, Nathan M.; and Sussman, Arthur, to Intraspec, Inc. Automated dryer control system. 4,713,894, 12-22-87, Cl. 34-30.000.
Roth, Robert A.: *See*—
Fales, Douglas I.; and Roth, Robert A., 4,672,937, Cl. 123-309.000.
Roth, Robert B. Frame retaining clip. 4,641,441, 2-10-87, Cl. 30-15e.000.
Roth, Roger R., and Hrdlicka, Gregory A., to Honeywell Inc. Passive signal coupler between power distribution systems for the transmission of data signals over the power lines. 4,675,648, 6-23-87, Cl. 340-310.00A.
Roth, Rudolf; and Werckmeister, Claus, to Wero Ohg Roth & Co. Length measuring apparatus based on the dual laser beam interferometer principle. 4,643,577, 2-17-87, Cl. 356-358.000.
Roth, Scott S.; Steinberg, Joe; and Morgan, H. Scott, to Motorola, Inc. Method for prevention of autodoping of epitaxial layers. 4,662,956, 5-5-87, Cl. 148-175.000.
Roth, Siegfried: *See*—
Gehring, Fritz; Roth, Siegfried; and Semrau, Hans-Juergen, 4,690,177, Cl. 139-449.000.
Roth, Thomas F.: *See*—
Kant, Rishi; McEfee, Dennis R.; Roth, Thomas F.; and Wilmer, Richard K., 4,670,804, Cl. 360-102.000.
Rothanavibhata, Adam A.; and Payne, Richard K., to Colgate Palmolive Co. Controlling viscosity of fabric softening heavy duty liquid detergent containing bentonite. 4,715,969, 12-29-87, Cl. 252-8.700.
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Rothbarth, James N.; and Smith, Edward W., to Satellite Technology Services, Inc. Antenna dish reflector with integral azimuth track. 4,692,771, 9-8-87, Cl. 343-882.000.
Rothbuhr, Lothar; and Kuhner, Gerhard, to Degussa Aktiengesellschaft. Process for producing furnace blacks of variable carbon black structure. 4,636,375, 1-13-87, Cl. 423-450.000.
Rothe, Anselm: *See*—
Trasch, Heinz-Freidrich; Rothe, Anselm; Sojka, Bernward; Werner, Wolfgang; and Wielinger, Hans, 4,638,023, Cl. 524-21.000.
Rothe, Ernst, to Ortische Werke G. Rodenstock. Scanning objective. 4,645,311, 2-24-87, Cl. 350-432.000.
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Rothen, Johann; and Schult, Manfred, to WABCO Westinghouse Fahrzeugbremsen GmbH. Fluid pressure responsive brake for the trailer of a vehicle. 4,671,578, 6-9-87, Cl. 303-15.000.
Rothenberg, Barry E.; and Billups, James O., Jr. Multi-cell tray. 4,673,651, 6-16-87, Cl. 435-301.000.
Rothenberg, I. Herbert; and Rothenberg, Thelma. Urinary collection system for male incontinent. 4,713,067, 12-15-87, Cl. 604-353.000.
Rothenberg, Irwin P., to Stik-Trim Industries, Inc. Self-adhesive wall covering or the like and method of making same. 4,650,704, 3-17-87, Cl. 428-40.000.
Rothenberg, Thelma: *See*—
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Rother, Helmut; and Reyher, Manfred, to Gebr. Marklin & Cie. GmbH. Electrical and mechanical coupling for model rail sections. 4,709,856, 12-1-87, Cl. 238-10.00E.
Rotherham, Alan, to Moulded Plywood Products Pty. Ltd. Fan blade. 4,653,985, 3-31-87, Cl. 416-229.00R.
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Rothfuss, Hans: *See*—
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Winkelmann, Manfred; Rothfuss, Hans; Muschner, Udo; and Schmitt, Karl H., 4,695,043, Cl. 266-265.000.
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Rothman, Alan M.; and Crabb, Charles C., to Rohm and Haas Company. Monitoring method for isothiazolones in aqueous systems. 4,652,530, 3-24-87, Cl. 436-92.000.
Rothman, Bengt: *See*—
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McLachlan, Richard D.; and Rothman, Leslie D., 4,707,134, Cl. 356-342.000.
Rothman, Michael L. Portable surgical drainage platform. 4,635,81, 1-13-87, Cl. 269-327.000.
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Rothrock, Elmer W., to Chicago Bridge & Iron Company. Hot liquid thermal energy storage tank and method. 4,643,212, 2-17-87, Cl. 137-1.000.
Rothschild, George E.: *See*—
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Rothschild, Mordecai: *See*—
Ehrlich, Daniel J.; Arnone, Claudio; and Rothschild, Mordecai, 4,668,528, Cl. 427-53.100.
Rothschild, Stanley. Pitch identification device. 4,665,790, 5-19-87, Cl. 84-454.000.
Rothstein, Leonard; and Brown, Bernard, to Ormont Corporation. Fiber filling system. 4,664,160, 5-12-87, Cl. 141-67.000.
Rothstein, Samuel. Simplified tube plugging. 4,646,816, 3-3-87, Cl. 165-76.000.
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Rothwell, Harold L., Jr.: *See*—
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Rotman, Avner. Sustained release tablets made from microcapsules. 4,710,384, 12-1-87, Cl. 424-465.000.
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McNeil, Gary L., 4,676,027, Cl. 51-7.000.
McNeil, Gary L., 4,693,037, Cl. 51-163.200.
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Roto Systems, Inc.: *See*—
Nesin, William Z., 4,699,261, Cl. 198-398.000.
Rotoclean Industrial Corporation: *See*—
Matyas, Laszlo, 4,654,059, Cl. 55-283.000.
Rotoflow Corporation: *See*—
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Rotola, Louis A., Jr.; and Laing, Gordon E., to Singer Company, The. Dirt drawer latch for vacuum cleaner. 4,705,547, 11-10-87, Cl. 55-374.000.
Rotolico, Anthony J.: *See*—
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Rotomors S.p.A.: *See*—
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Rotondi, Anthony J.; Mullich, Richard O.; and Carabet, George F., to TRE Corporation. Deadbolt assembly having selectable backset distance. 4,656,849, 4-14-87, Cl. 70-134.000.
Rotorcafe AG: *See*—
Varga, Franz, 4,641,572, Cl. 99-286.000.
Rotorcomp Verdichter, GmbH: *See*—
Gerdau, Alfred, 4,666,473, Cl. 55-97.000.
Gerdau, Alfred, 4,668,252, Cl. 55-191.000.
Rotpunkt Dr. Anso Zimmermann: *See*—
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Zimmermann, Anso, 4,669,631, Cl. 220-341.000.
Zimmermann, Anso, 4,676,385, Cl. 215-1.00C.
Zimmermann, Anzo, 4,648,535, Cl. 222-472.000.
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Rotta Research Laboratorium S.p.A.: *See*—
Senin, Paolo; Makovec, Francesco; and Rovati, Luigi, 4,642,340, Cl. 536-55.200.
Rottapharm S.p.A.: *See*—
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Rottenmanner, Ernst: *See*—
Nagl, Michael; Fugger, Gerhard; Mraz, Jaroslav; Mailander, Horst; Rottenmanner, Ernst; Rauber, Norbert; and Luger, Wolfgang, 4,708,643, Cl. 432-95.000.
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Rottleb, Dieter, to Guterman & Co. A.G.: Spools for yarns, threads or the like, 4,659,032, 4-21-87, Cl. 242-118.400.
Rottmaier, Ludwig; and Merten, Rudolf, to Bayer Aktiengesellschaft: N,N'-bis(2,3-epoxypropyl) derivatives of cyclic dicarboxylic acid hydrazides and a process for the production thereof, 4,658,026, 4-14-87, Cl. 544-238.000.
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Artzt, Peter; Rottmayr, Hans; and Bauer, Wolfgang, 4,679,388, Cl. 57-263.000.
Artzt, Peter; Rottmayr, Hans; and Bauer, Wolfgang, 4,697,411, Cl. 57-401.000.
Rotulo, Fabrizio: *See*—
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Rotzler GmbH & Co. Spezialfabrik fur Seilwinden und Hebezeuge: *See*—
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Roubal, Jiri, to Dr.-Ing. Max Schlotter GmbH & Co. KG: Process for the production of metal patterns on insulating substrates as well as insulating substrates with metal patterns, especially printed circuits, 4,666,739, 5-19-87, Cl. 427-97.000.
Roubicek, Rudolf V.; and Feres, Vaclav: Equipment for enhanced mass transfer and control of foaming in chemical and biochemical processes, 4,657,677, 4-14-87, Cl. 210-219.000.
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Roucache, Jeannine: *See*—
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Terneu, Robert; and Roucour, Jean, 4,687,687, Cl. 428-34.000.
Roudenko, Vladimir: *See*—
Blomstedt, John W.; Yoshida, Paul S.; Irving, Wesley F.; and Roudenko, Vladimir, 4,685,032, Cl. 361-412.000.
Roue, Jean; LeDisert, Yves; Faucher, Philippe; and Scriven, Roger L., to Peintures Corona S.A.: Polyoxyalkylenepolyamine reaction products and their use in cationic electrodeposition, 4,689,131, 8-25-87, Cl. 204-181.700.
Rouffy, Jean C.: *See*—
Legrand, Jacques; and Rouffy, Jean C., 4,666,226, Cl. 339-61.00M.
Rouge, Anthony; and Schulze, Joachim, to Rouge, Anthony: Wind propelled land vehicle, 4,681,333, 7-21-87, Cl. 280-87.04A.
Rougeot, Henri: *See*—
Galves, Jean-Pierre; Gibilini, Daniel; and Rougeot, Henri, 4,647,811, Cl. 313-372.000.
Rouget, Jean P.: *See*—
Hall, Henri; and Rouget, Jean P., 4,688,486, Cl. 102-489.000.
Rough, J. Kirkwood H.: Krolak, Michael; and Biche, Michael R., to Flexible Manufacturing Systems, Inc.: Power transfer device, 4,654,573, 3-31-87, Cl. 320-2.000.
Rough, J. Kirkwood H.: *See*—
Nelson, Martin N.; and Rough, J. Kirkwood H., 4,691,239, Cl. 358-282.000.
Rougier, Andre ; Dupuis, Didier; Philippe, Michel; Sebag, Henri; and Leger, Didier S., to L'Oreal: Bi- or tri-enic fatty esters of erythromycin A, pharmaceutical and cosmetic compositions containing them, 4,668,664, 5-26-87, Cl. 514-29.000.
Rouhani, S. Zia: Detachable heel for shoes and boots, 4,667,421, 5-26-87, Cl. 36-36.00C.
Roujon, Auguste: Wire saws for the shaping of stone, granite and the like, 4,669,446, 6-2-87, Cl. 125-21.000.
Roulaux, Jan: *See*—
Rosenthal, Manfred; and Roulaux, Jan, 4,707,714, Cl. 346-140.00R.
Roule, Richard L.; and Cantor, Joshua C., to American Bank Note Company: Documents having a revealable concealed identifier and the method of making such documents, 4,715,623, 12-29-87, Cl. 283-91.000.
Rouleau, Alain; Rouleau, Patrick; and Touret, Jean-Pierre: Process and apparatus for gripping flexible, and in particular textile layers, and a machine for gripping and transferring said layers, 4,635,918, 1-13-87, Cl. 271-183.000.
Rouleau, Denis: *See*—
Safi, Bechara F.; Rouleau, Denis; and Mayer, Raymond, 4,654,308, Cl. 435-310.000.
Rouleau, Patrick: *See*—
Rouleau, Alain; Rouleau, Patrick; and Touret, Jean-Pierre, 4,635,918, Cl. 271-183.000.
Roulet-Dubonnet, Jean-Pierre: *See*—
Terracol, Claude; and Roulet-Dubonnet, Jean-Pierre, 4,695,913, Cl. 361-13.000.
Roullet, Gerald: *See*—
Gouali, Mohamed; Roullet, Gerald; and Vouin, Oliver, 4,708,425, Cl. 350-96.160.
Rouly, Eric; Dubuit, Jean-Louis; and Marette, Gilles, to Societe d'Exploitation des Machines Dubuit: Transfer system for article printing machine, 4,690,050, 9-1-87, Cl. 101-35.000.
Rouly, Eric: *See*—
Dubuit, Jean-Louis; and Rouly, Eric, 4,667,804, Cl. 198-345.000.
Rounds, Nicholas A., to Rohm and Haas Company: Process for molding a polymeric layer onto a substrate, 4,637,904, 1-20-87, Cl. 264-1.400.
Rountree, Robert N.; and Herndon, Troy H., to Texas Instruments Incorporated: Semiconductor device with electrostatic discharge protection, 4,692,781, 9-8-87, Cl. 357-23.130.
Rouquette, Robert E.: *See*—
Christy, Edmund H.; Rouquette, Robert E.; and Van Doren, Lawrence, 4,665,404, Cl. 342-463.000.
Rourke, John K.; and O'Connor, Joseph G., to Mead Corporation, The: Method for forming images on plain paper and an imaging sheet useful therein, 4,701,397, 10-20-87, Cl. 430-138.000.
Rouse, David M.; Wallace, Richard E.; and Zelms, Charles M., to American Telephone and Telegraph Company, AT&T Bell Laboratories: Data communication network, 4,687,563, 7-28-87, Cl. 370-16.000.
Rouse, Geoffrey O.: *See*—
Bryan, Leonard B.; Rouse, Geoffrey O.; and McDonald, Hector, 4,703,802, Cl. 166-298.000.
Rouse, John A.; and Mowbray, Dorian F., to Lucas Industries Public Limited Company: Fuel injection pumping apparatus, 4,699,108, 10-13-87, Cl. 123-450.000.
Rouse, Michael W.; Thelen, Robert L.; and Morrison, John, to Waste Recovery, Inc.: Tire processing apparatus and method, 4,714,201, 12-22-87, Cl. 241-24.000.
Rouse, W. J.: *See*—
Johnson, Fred L., 4,712,518, Cl. 123-48.00B.
Roush, David M.: *See*—
Burkart, Susan E.; Phillips, Richard B.; and Roush, David M., 4,645,777, Cl. 514-444.000.
Rousseau, Alain, to Sato Electronique S.A.: Turbine flowmeter for fluids, 4,655,090, 4-7-87, Cl. 73-861.830.
Rousseau, Alain: *See*—
Picciotto, Robert; Ramel, Francois; Rousseau, Alain; and Touzin, Philippe, 4,687,268, Cl. 439-55.000.
Rousseau, Carl H.: Dental fastening device and method of use, 4,690,643, 9-1-87, Cl. 433-213.000.
Rousseau, Jacques R., to Aerazur-Efa: Maneuverable parachute, 4,638,961, 1-27-87, Cl. 244-142.000.
Rousseau, Jean; and Fourche, Jean P., to Videocolor: Process for positioning and grasping semi ferrites for a magnetic core and centering device for operating said process, 4,637,803, 1-20-87, Cl. 445-23.000.
Rousseau, Jean: *See*—
Gaudilliere, Bernard; and Rousseau, Jean, 4,711,899, Cl. 514-330.000.
Loriot, Pierre; Rendu, Michel; Rousseau, Jean; and Samuel, Alain, 4,678,924, Cl. 29-407.000.
Wick, Alexander; Frost, Jonathan; Gaudilliere, Bernard; Bertin, Jean; Dupont, Regis; and Rousseau, Jean, 4,690,931, Cl. 514-317.000.
Rousseau, Jean-Pierre: Key ring type device, 4,706,477, 11-17-87, Cl. 70-456.00R.
Roussel, Albert: *See*—
DuForest, Rene; and Roussel, Albert, 4,675,216, Cl. 427-56.100.
Roussel, Bruno, to Videocolor: Magnetic deflecting yoke for cathode-ray tube with shortened neck, 4,700,164, 10-13-87, Cl. 335-210.000.
Roussel, Christian M.: *See*—
Rajoharison, Harivelo G.; and Roussel, Christian M., 4,642,359, Cl. 549-356.000.
Roussel, Gerard: *See*—
Cotrel, Claude; Guyon, Claude; Roussel, Gerard; and Taurand, Gerard, 4,642,308, Cl. 514-253.000.

Roussel, Louis J. Anti rotational device for down hole hydraulic pumping unit. 4,637,459, 1-20-87, Cl. 166-72.000.

Roussel Uclaf: *See*—
Barnes, Alan C.; and Rowlands, David A., 4,644,002, Cl. 514-292.000.
Barton, Derek H. R.; Zard, Samir Z.; and Wozniak, Jocelyne, 4,689,410, Cl. 540-108.000.
Bianchi, Mario, deceased; and Barzaghi, Fernando, 4,694,019, Cl. 514-461.000.
Clemence, Francois; Le Martret, Odile; and Delevallee, Francoise, 4,636,512, Cl. 514-312.000.
Frank-Neumann, Michel; Sedrati, Madjid; Vigneron, Jean-Pierre; and Bloy, Vincente, 4,677,218, Cl. 558-243.000.
Gasc, Jean-Claude; Nedelec, Lucien; Rettien, Claude; and Nanopoulos, Dinali W., 4,699,907, Cl. 514-232.000.
Gero, Stephane; Cleophax, Jeanine; and Gateau-Olesker, Alice, 4,716,226, Cl. 540-200.000.
Gillespie, Roger J.; and Tully, Wilfred R., 4,703,049, Cl. 514-258.000.
Guillaume, Jacques; Clemence, Francois; and Brown, Neil L., 4,650,811, Cl. 514-415.000.
Jones, Stuart D.; Tully, Wilfred R.; and Kennewell, Peter D., 4,654,338, Cl. 514-222.000.
Jouquey, Alain; Salmon, Jean; Mouren, Michel; and Touyer, Gaetan, 4,639,336, Cl. 260-397.500.
Jouquey, Alain; Veltz, Jean-Noel; Salmon, Jean; and Mouren, Michel, 4,661,295, Cl. 260-397.450.
Jouquey, Alain; Philibert, Daniel; Moguilewsky, Martine; and Veltz, Jean-Noel, 4,664,850, Cl. 260-397.450.
Julia, Marc; and Cuvigny, Therese, 4,670,577, Cl. 558-378.000.
Leroux, Hugues, 4,669,634, Cl. 222-53.000.
Martel, Jacques; Tessier, Jean; and Demoute, Jean-Pierre, 4,642,372, Cl. 560-124.000.
Martel, Jacques; Tessier, Jean; and Teche, Andre, 4,658,043, Cl. 549-302.000.
Marty, Jean-Pierre, 4,699,778, Cl. 424-59.000.
Marty, Jean-Pierre, 4,702,913, Cl. 424-95.000.
Meier, Jean; and Clemence, Francois, 4,659,729, Cl. 514-383.000.
Mendy, Francois; and Barthelemy, Pierre, 4,701,468, Cl. 514-547.000.
Mendy, Francois; and Barthelemy, Pierre, 4,701,469, Cl. 514-547.000.
Nedelec, Lucien; Fauveau, Patrick; Hamon, Gilles; and Oberlander, Claude, 4,661,482, Cl. 514-227.000.
Nedelec, Lucien; Hamon, Gilles; Fauveau, Patrick; and Oberlander, Claude, 4,694,011, Cl. 514-323.000.
Nedelec, Lucien, 4,703,050, Cl. 514-277.000.
Tessier, Jean; and Demoute, Jean-Pierre, 4,689,342, Cl. 524-427.000.
Tessier, Jean; and Demoute, Jean-Pierre, 4,701,542, Cl. 549-456.000.
Teutsch, Jean-Georges; Torelli, Vesperto; Deraedt, Roger; and Philibert, Daniel, 4,634,696, Cl. 514-179.000.
Torelli, Vesperto; Teutsch, Jean G.; and Philibert, Daniel, 4,634,695, Cl. 514-178.000.
Torelli, Vesperto; Nedelec, Lucien; Moguilewski, Martine; and Moura, Anne-Marie, 4,701,449, Cl. 514-175.000.

Rousselot, Andre, to Somfy. Linear actuator. 4,712,440, 12-15-87, Cl. 74-89.150.

Rousset, Alain: *See*—
Commeyras, Auguste; Taillades, Jacques; Brugidou, Jean; Mion, Louis; Sola, Regine; Pascal, Robert; Lasperas, Monique; and Rousset, Alain, 4,677,224, Cl. 562-557.000.

Rousset, Jacky: *See*—
Gonnet, Olivier; and Rousset, Jacky, 4,687,789, Cl. 523-122.000.
Roca, Yves; Rousset, Jacky; Bouchut, Pierre; Leblanc, Marie-Christine; and Baffreau, Daniel, 4,681,634, Cl. 106-90.000.

Rousset, Philippe: *See*—
Arnaudeau, Marcel; and Rousset, Philippe, 4,641,679, Cl. 137-88.000.

Roussin, Alfred G., to General Electric Company. Split drift ring for focus deflection in light valves. 4,716,339, 12-29-87, Cl. 315-15.000.

Roussin, Michael A.; Fidler, Jerry D.; and Jensen, Brian D., to Caterpillar Inc. Mounting frame for linear impact ripper assembly. 4,679,857, 7-14-87, Cl. 299-37.000.

Roussin, Michael A.; and Cobb, Delwin E., to Caterpillar Tractor Co. Recoil damper for a reciprocating member. 4,703,838, 11-3-87, Cl. 188-316.000.

Roussin-Moynier, Yves R.: *See*—
Madsen, Willy B.; Jensen, Finn H.; Rasmussen, Ole B.; Goldstein, Guy; and Roussin-Moynier, Yves R., 4,636,419, Cl. 428-131.000.

Rousson, Maurice: *See*—
Lauzier, Rene; Rollin, Jean; Choquelle, Jean; Dumas, Gerard; Breat, Francois; Rousson, Maurice; and Defour, Paule, 4,705,286, Cl. 280-281.00R.

Roust, Robert C., to STC PLC. Demodulation of auxiliary low frequency channels in digital transmission systems. 4,716,563, 12-29-87, Cl. 370-110.400.

Routh, Kevin C.: *See*—
Alley, Robert P.; Bicknell, William H.; and Routh, Kevin C., 4,663,569, Cl. 315-175.000.
Steigerwald, Robert L.; Routh, Kevin C.; Claydon, Glenn S.; and Bicknell, William H., 4,694,384, Cl. 363-17.000.

Routhier, George W.: *See*—
Vitello, John P.; Routhier, George W.; and McCrory, Daniel P., 4,667,837, Cl. 215-228.000.

Routson, Gregory S., to Lear Siegler, Inc. Circumferentially oriented flexure suspension. 4,694,703, 9-22-87, Cl. 74-5.00F.

Routt, Wilson M., Jr.: *See*—
Glass, David W.; and Routt, Wilson M., Jr., 4,715,687, Cl. 350-345.000.

Rouverol, William S. Wide-angle gearing. 4,644,814, 2-24-87, Cl. 74-462.000.

Rouverol, William S. Low-excitation gearing. 4,651,588, 3-24-87, Cl. 74-462.000.

Rouws, Petrus L. A., to U.S. Philips Corporation. Disc-record player comprising a disc-loading mechanism and disc-holder for use in such a player. 4,692,916, 9-8-87, Cl. 369-75.200.

Roux, Christian G.; and Chavaroux, Patrick R., to Raychem Pontoise S.A. Device for forming solder connections. 4,654,473, 3-31-87, Cl. 174-84.00R.

Roux, Georges; Mestais, Corinne; and Gauthier, Rene, to Informatek - Sopha Medical. Method for processing locating pulses supplied by a gamma camera and a gamma camera utilizing this method. 4,672,542, 6-9-87, Cl. 364-414.000.

Roux, Jacques. Method for forming special color effects from a fluorescent lamp which is supplied with electrical power and a device for carrying out the method. 4,691,146, 9-1-87, Cl. 315-287.000.

Roux, Marius, to Societe Anonyme: SABLA. Gasket incorporating implants for interfitting pipes. 4,641,858, 2-10-87, Cl. 285-94.000.

Roux, Michel, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Explotation des Procedes Georges Claude. Process and apparatus for lubricating glass mold castings. 4,648,893, 3-10-87, Cl. 65-26.000.

Roux, Michel: *See*—
Desprez, Marc; and Roux, Michel, 4,708,728, Cl. 65-136.000.

Roux, Paul M. M. Caisson of a stack of caissons constituting the lateral walls of an underground room such as particularly a cellar. 4,658,551, 4-21-87, Cl. 52-79.100.

Roux, Pierre. Support truck for vehicle or equipment. 4,674,726, 6-23-87, Cl. 254-7.00R.

Roux, Yves M. J. P.; and Pitaud, Patrice G. L., to Moteurs Leroy-Somer. On board power supply particularly for a ship propelled by a variable speed diesel engine. 4,709,203, 11-24-87, Cl. 322-87.000.

Rouzies, Christian, to Centre National d'Etudes Spatiales. DC power supply with adjustable operating point. 4,678,983, 7-7-87, Cl. 323-222.000.

Rouzioux, Christine: *See*—
Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan, Mangalasseril G., 4,708,818, Cl. 435-5.000.

Rovang, Inc.: *See*—
King, Nolan D., 4,703,915, Cl. 251-328.000.

Rovati, Luigi: *See*—
Senin, Paolo; Makovec, Francesco; and Rovati, Luigi, 4,642,340, Cl. 536-55.200.

Rovedo, Nivo: *See*—
Beyer, Klaus D.; Makris, James S.; Mendel, Eric; Nummy, Karen A.; Ogura, Seiki; Riseman, Jacob; and Rovedo, Nivo, 4,671,65[illegible] Cl. 156-645.000.
Ogura, Seiki; Riseman, Jacob; Rovedo, Nivo; and Shepard, Joseph F., 4,641,170, Cl. 357-35.000.
Ogura, Seiki; Riseman, Jacob; Rovedo, Nivo; and Schulz, Ronald N., 4,648,937, Cl. 156-643.000.

Rovee B.V.: *See*—
Oostlander, Arie P., 4,688,863, Cl. 439-92.000.

Rovel, Jean-Marie: *See*—
Burriat, Jean; Causse, Bernard; and Rovel, Jean-Marie, 4,659,47[illegible] Cl. 210-675.000.

Rovensky, Jozef: *See*—
Kasafirek, Evzen; Cerny, Martin; Kocis, Petr; Krepelka, Jiri; and Rovensky, Jozef, 4,711,952, Cl. 530-327.000.

Rovera, Giovanni D.: *See*—
DeMarchi, Andrea; and Rovera, Giovanni D., 4,692,716, Cl. 331-3.000.

Rovin, Herman. Bi-directional actuator. 4,669,718, 6-2-87, Cl. 271-227.000.

Rovo, Peter: *See*—
David, Dezso; Rovo, Peter; Sipos nee Richter, Terez; Molnar, Gyorgy; Deme, Istvan; and Karnitscher, Tamas, 4,713,078, Cl. 8-94.150.

Rowan, Hugh H.: *See*—
Cordova, Colleen W.; and Rowan, Hugh H., 4,695,509, Cl. 428-267.000.
Cordova, David S.; Rowan, Hugh H.; and Lin, Leroy C., 4,687,79[illegible] Cl. 523-466.000.

Rowan, Timothy M.: *See*—
Kerkman, Russel J.; and Rowan, Timothy M., 4,680,695, Cl. 363-160.000.
Kerkman, Russel J.; and Rowan, Timothy M., 4,706,012, Cl. 323-280.000.

Rowcliffe, David J.: *See*—
Allam, Ibrahim M.; and Rowcliffe, David J., 4,715,902, Cl. 148-6.300.

Rowcycle: *See*—
Salmon, James R., 4,700,962, Cl. 280-220.000.

Rowe, Blaine F.: *See*—
Aurness, Harold O.; Rowe, Blaine F.; and Tremann, Arno J., 4,650,033, Cl. 182-7.000.

Rowe, Bruce: *See—*
Nelson, Deanna; and Rowe, Bruce, 4,665,057, Cl. 514-23.000.
Nelson, Deanna; and Rowe, Bruce, 4,701,443, Cl. 514-23.000.

Rowe, David W.: *See—*
Shirey, Phillip G.; Rowe, David W.; and Waynick, William R., 4,678,027, Cl. 165-70.000.

Rowe, Don H., to GTE Government Systems Corporation. Encoder/decoder for card entry system. 4,658,252, 4-14-87, Cl. 340-825.310.

Rowe, Donald: *See—*
Leary, Sharon M.; Steward, John C.; Commisso, Nicholas D.; De Cook, Edwin R.; Hede, Ralph E.; and Rowe, Donald, 4,653,685, Cl. 229-2.50R.

Rowe, Edward A., Jr., to Occidental Electrochemical Corporation. Perchloroethylene dielectric fluid containing aliphatic hydrocarbons. 4,697,043, 9-29-87, Cl. 174-17.0LF.

Rowe, Fred, to Phillips Petroleum Company. Process system including fluid flow control apparatus. 4,686,086, 8-11-87, Cl. 422-111.000.

Rowe International, Inc.: *See—*
Hoffman, David; Verduin, Lee C.; and Ouwinga, Ross, 4,677,777, Cl. 40-460.000.

Rowe, Irwin. Phonograph record conditioner. 4,689,253, 8-25-87, Cl. 427-429.000.

Rowe, James M.; and Modster, Rudolph W., to Northrop Corporation. Transparent conductive windows, coatings, and method of manufacture. 4,710,433, 12-1-87, Cl. 428-623.000.

Rowe, Jay E., to Crompton & Knowles Corporation. Process for preparation of concentrated anionic red dye solutions. 4,654,045, 3-31-87, Cl. 8-527.000.

Rowe, John B.: *See—*
Bryan, Dennis P.; and Rowe, John B., 4,713,815, Cl. 371-29.000.

Rowe, Lacy A. Fishing lure. 4,640,042, 2-3-87, Cl. 43-42.150.

Rowe, Murray A., to CMI Corporation. Concrete finishing machine with adjustable auger unit. 4,708,520, 11-24-87, Cl. 404-103.000.

Rowe, Norman R.: *See—*
Martin, Peter; Wyatt, Avis N., Jr.; Alonso, Hector; Rowe, Norman R.; Southard, Robert S.; and Zimmermann, Stephen G., 4,657,144, Cl. 209-546.000.

Rowe, Paul J., to Xerox Corporation. Contamination control for xerographic developing systems. 4,666,282, 5-19-87, Cl. 355-3.0DD.

Rowe, Ray. Swimming pool skimmer accelerator. 4,707,253, 11-17-87, Cl. 210-169.000.

Rowe, Raymond C.: *See—*
Forse, Sidney F.; and Rowe, Raymond C., 4,661,367, Cl. 427-3.000.

Rowe, Raymond G., to General Electric Company. Cold hearth melting configuration and method. 4,654,858, 3-31-87, Cl. 373-72.000.

Rowe, Ronnie R.: *See—*
Batchelor, Ronnie K.; and Rowe, Ronnie R., 4,641,509, Cl. 70-388.000.

Rowe, Russell L.: *See—*
Bowling, Joseph E.; Carpenter, James H.; and Rowe, Russell L., 4,637,559, Cl. 241-94.000.

Rowe, W. Bruce: *See—*
Cotter, Richard; Johnson, Robert C.; Rowe, W. Bruce; and Young, Susan K., 4,678,807, Cl. 514-552.000.

Rowe, William; and Dooley, Thomas, to Polychrome Corp. Photosensitive compounds and lithographic composition or plate therewith having o-quinone diazide sulfonyl ester group. 4,640,884, 2-3-87, Cl. 430-165.000.

Rowe, William S.; and Chao, Fred C., to General Electric Company. Transient monitor for nuclear reactor. 4,678,622, 7-7-87, Cl. 376-259.000.

Rowell Laboratories: *See—*
Powell, David R.; and Patel, Vithal K., 4,657,900, Cl. 514-166.000.

Rowen, Harold E., to Caterpillar Inc. Apparatus for preventing engine stall. 4,688,665, 8-25-87, Cl. 192-0.076.

Rowen, Michael J.; Yuhasz, Stephen J.; Buehler, David L.; Jacoby, Elliot G.; and Spira, Joel S., to Lutron Electronics Co., Inc. Multiple location dimming system. 4,689,547, 8-25-87, Cl. 323-239.000.

Rowenta-Werke GmbH: *See—*
Henneberger, Gerd; Walter, Robert; Thomas, Rolf; Bechstein, Ernst; and Voss, Norbert, 4,658,520, Cl. 38-93.000.
Walter, Robert, 4,711,010, Cl. 29-157.00R.

Rowland, David L. Stackable armchair. 4,648,653, 3-10-87, Cl. 297-239.000.

Rowland, Donald G.; Hunter, Byron A.; and Hansen, Lee D., to Uniroyal Chemical Company, Inc. Blowing agent composition. 4,655,962, 4-7-87, Cl. 252-350.000.

Rowland, Donald G.; Hunter, Byron A.; and Hansen, Lee D., to Uniroyal Chemical Company, Inc. Blowing agent composition. 4,692,475, 9-8-87, Cl. 521-92.000.

Rowland, Donald G.: *See—*
Hunter, Byron A.; Rowland, Donald G.; and Peascoe, Warren J., 4,634,721, Cl. 521-92.000.

Rowland, Robert O., to Hudson Oxygen Therapy Sales Company. Oxygen concentrator. 4,648,888, 3-10-87, Cl. 55-21.000.

Rowland, Roy C.: *See—*
Janssen, Gwen V.; and Rowland, Roy C., 4,702,345, Cl. 181-129.000.

Rowland, Stephen A., to Hymac Ltd. Two stage refiner. 4,700,900, 10-20-87, Cl. 241-37.000.

Rowlands, David A.: *See—*
Barnes, Alan C.; and Rowlands, David A., 4,644,002, Cl. 514-292.000.

Rowlands, Edward G.: *See—*
Barker, Martyn C.; and Rowlands, Edward G., 4,701,218, Cl. 106-114.000.

Rowlands, Edwin R.: *See—*
Landi, Vincent R.; and Rowlands, Edwin R., 4,647,125, Cl. 339-17.00F.

Rowles, Howard C., to Air Products and Chemicals, Inc. Process for recovery and purification of C_3-C_4+ hydrocarbons using segregated phase separation and dephlegmation. 4,714,487, 12-22-87, Cl. 62-24.000.

Rowles, Howard C.: *See—*
Ayres, Calvin L.; and Rowles, Howard C., 4,707,170, Cl. 62-24.000.

Rowlett, Don C.: *See—*
Hallissy, Robert P.; Isakov, Edmund; Stephenson, Earle W.; and Rowlett, Don C., 4,715,450, Cl. 172-701.300.

Rowlette, John J., to California Institute of Technology. Bipolar battery plate. 4,658,499, 4-21-87, Cl. 29-623.100.

Rowley, Frederick, to Shell Internationale Research Maatschappij B.V. Insulation material and its preparation. 4,673,697, 6-16-87, Cl. 523-218.000.

Rowley, James R.; and Brown, William J., to PPG Industries, Inc. Shipping facility having rail mounted A-frames for supporting sheets. 4,688,976, 8-25-87, Cl. 410-156.000.

Rowley, William W. Polybutylene tube coupling and method for making it. 4,664,423, 5-12-87, Cl. 285-256.000.

Rowson, Stuart C.: *See—*
Hong, Vuong B.; Rowson, Stuart C.; Daniel, Richard A.; and Rostek, Paul M., 4,638,256, Cl. 328-105.000.

Rox, Rainer: *See—*
Spilker, Harry; Rox, Rainer; and Peschl, Heinz-Walter, 4,713,199, Cl. 252-633.000.

Roxe, David M.: *See—*
Zolnierczyk, Kenneth J.; and Roxe, David M., 4,676,775, Cl. 604-28.000.

Roxlo, Charles B.; and Deckman, Harry W., to Exxon Research and Engineering Company. Micro-porous superlattice separations. 4,690,750, 9-1-87, Cl. 208-310.00Z.

Roxor Corporation: *See—*
Blom, C. James, 4,636,046, Cl. 350-613.000.
Blom, C. James, 4,641,933, Cl. 350-613.000.
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Phlaphongphanich, Vichai, 4,676,386, Cl. 215-11.00R.
Royal Appliance Mfg. Co.: *See*—
Sovis, John F.; Smith, Robert M.; and Bramhall, George H., 4,633,543, Cl. 15-344.000.
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Aguilhon, Claude, 4,680,188, Cl. 426-281.000.
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Royal Master Systems, Inc.: *See*—
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Triboulet, Robert; Didier, Gerard; Durand, Alain; and Royer, Michel, 4,662,980, Cl. 156-604.000.
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Wilcox, Roy, 4,657,098, Cl. 180-8.100.
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Rozansky, Boris: *See*—
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Martin, Robert H.; Rozelle, Bradley J.; and Breier, Thomas J., 4,641,804, Cl. 248-205.100.
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Rozmestor, Raymond L. Socket organizer. 4,711,353, 12-8-87, Cl. 206-378.000.

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Rozmecki, Edward J. Temperature-compensated pressure gage. 4,655,087, 4-7-87, Cl. 73-708.000.

Rozsa, Istvan K. Above ground—below ground pump apparatus. 4,683,945, 8-4-87, Cl. 166-68.500.

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Wakahapulos, George, 4,694,222, Cl. 315-111.210.

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Strongosky, John M.; and Freund, David M., 4,666,048, Cl. 211-170.000.

RSF Elektronik Gesellschaft m.b.H. *See*—
Rieder, Heinz; and Schwaiger, Max, 4,716,292, Cl. 250-237.00G.

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Breslow, David, 4,712,694, Cl. 211-184.000.

RTE Corporation. *See*—
Hammond, Robert G., 4,644,111, Cl. 200-8.00A.
Martin, Charles M.; and Lien, Wayne W., 4,656,452, Cl. 336-178.000.
Mikulecky, Harvey W., 4,688,145, Cl. 361-349.000.
Schoenwetter, Randall R.; Makal, John; and Sankey, Edward L., 4,715,104, Cl. 29-271.000.
Sution, Quinsten H., 4,713,018, Cl. 439-185.000.

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Schneider, Richard T.; and Keates, Richard H., 4,648,400, Cl. 128-303.100.

Rua, Joseph M. *See*—
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Delhaes, Johannes C., 4,662,662, Cl. 285-379.000.
van Engelshoven, Ber, 4,633,715, Cl. 73-822.000.

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Delmerico, Paul E., 4,705,247, Cl. 248-98.000.
Hampshire, James F.; Groth, Hugh F.; and Collins, John M., 4,637,322, Cl. 108-102.000.

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Bucefari, Massimo; and Rubechini, Roberto, 4,644,175, Cl. 250-561.000.
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Schiraldi, Michael T.; Perl, Martin M.; and Rubin, Howard, 4,713,243, Cl. 424-151.000.

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Rubin, Irving N. *See*—
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Rubinstein, Leon. Plastic swivel connector and mold therefor. 4,680,837, 7-21-87, Cl. 24-237.000.

Rubinstein, Mordecai, to Nordson Corporation. Spray gun mover. 4,704,985, 11-10-87, Cl. 118-316.000.

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Rubloff, Gary W.; and Wittmer, Marc F., to International Business Machines Corporation. Low temperature shallow doping technique. 4,692,348, 9-8-87, Cl. 437-82.000.

Rubloff, Gary W.: *See*—
Beha, Johannes G.; Dreyfus, Russell W.; Hartstein, Allan M.; and Rubloff, Gary W., 4,644,264, Cl. 324-73.00R.
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Rubner, Michael F.: *See*—
Druy, Mark A.; Tripathy, Sukant K.; and Rubner, Michael F., 4,707,527, Cl. 525-417.000.

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Bauer, David L.; Bowyer, Larry D.; Ruby, David M.; and Windhausen, Richard A., 4,707,694, Cl. 340-825.520.

Ruby, Joseph H., to Sperry Corporation. Self converging deflection yoke for in-line gun color CRT. 4,677,349, 6-30-87, Cl. 315-368.000.

Rucci, Norman M.; and Sautter, Helmuth O., to AT&T Information Systems Inc. Dynamic gain adjuster for an image scanner. 4,639,781, 1-27-87, Cl. 358-163.000.

Ruch, Jean P.: *See*—
Schmoede, Peter; Katryniok, Detlef, deceased; and Ruch, Jean P., 4,643,235, Cl. 141-1.100.

Ruch, Siegfried; Hagen, Karl-Heinz; and Hambrock, Klaus-Peter, to EC Erdolchemie GmbH. Process for removing acetylene from a C_2-stream. 4,655,798, 4-7-87, Cl. 55-64.000.

Ruchel, Peter; and Hofmann, Lothar, to Diehl GmbH & Co. Brass alloy. 4,676,848, 6-30-87, Cl. 148-434.000.

Ruchser, Erich, to Herion-Werke KG. Seal for rodless cylinder with shuttle piston. 4,685,383, 8-11-87, Cl. 92-88.000.

Rucker, James, to Cloud Company, The. Directional tank cleaning process. 4,664,720, 5-12-87, Cl. 134-22.100.

Rucker, Robert A. Refractory cement. 4,710,225, 12-1-87, Cl. 106-104.000.

Ruckert, Edward; and Golz, Gerhard, to Ewald Witte & Co. Device for the clamping connection of structural parts which are spaced from each other. 4,682,906, 7-28-87, Cl. 403-409.100.

Ruckert, Heinz-Jurgen: *See*—
Bachmann, Ludwig; and Ruckert, Heinz-Jurgen, 4,653,721, Cl. 251-88.000.

Ruckert, Peter: *See*—
Heller, Wolfgang; Ruckert, Peter; and Wiemann, Dieter, 4,636,159, Cl. 425-148.000.

Ruckert, Walter: *See*—
Albrecht, Wilhelm; Wurz, Dieter; Peitsmeier, Karl; Waldschutz, Heinz; Ruckert, Walter; Kuhn, Klaus; and Patzelt, Helmut, 4,644,817, Cl. 74-552.000.

Ruckey, Allan M.: *See*—
Sofianek, Jay K.; Nally, John F.; Rush, James H.; Fuss, Robert L.; Williams, John E.; and Ruckey, Allan M., 4,646,974, Cl. 239-585.000.

Ruckh, Peter: *See*—
Dietrich, Gerhard; Nestler, Gerhard; Ruckh, Peter; and Herzog, Reinhard, 4,675,436, Cl. 560-205.000.

Rucki, William M., to General Electric Company. Load control circuit. 4,680,508, 7-14-87, Cl. 315-166.000.

Ruco Equipment Company, Inc.: *See*—
Pasquarette, Ernest R., Jr.; Crouse, Stanley G.; Campanella, Ermen; and Botti, Franco, 4,679,653, Cl. 182-2.000.

RUD-Kettenfabrik Rieger & Dietz GmbH u. Co.: *See*—
Speich, Herrn H., 4,641,875, Cl. 294-82.110.
Weidler, Erhard A., 4,649,977, Cl. 152-243.000.

Rudavicius, Gabriel J., to Navistar International Transportation Corp. Fluid treatment pressure vessel with a disposable cartridge and valve therefor. 4,715,434, 12-29-87, Cl. 165-119.000.

Rudaz, Jean: *See*—
Cretin, Jacques; Beauducel, Claude; Rudaz, Jean; and Gonzalez, Pierre, 4,636,992, Cl. 367-20.000.
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Rudbach, Jon A.: *See*—
Babb, James L.; Bloomster, Timothy G.; and Rudbach, Jon A., 4,654,298, Cl. 435-4.000.

Rudd, Larry R.: *See*—
Fuchs, Daniel G.; and Rudd, Larry R., 4,634,168, Cl. 296-35.100.

Rudd, Norman. Treatment of porous structures. 4,679,380, 7-14-87, Cl. 53-440.000.

Ruddell, Kevin T.: *See*—
Gehman, Stacy E.; and Ruddell, Kevin T., 4,672,365, Cl. 340-539.000.

Ruddock, John C.: *See*—
Celmer, Walter D.; Cullen, Walter P.; Maeda, Hiroshi; Ruddock, John C.; and Tone, Junsuke, 4,707,493, Cl. 514-460.000.

Ruddock, Kenneth A.: *See*—
DeBell, Gary W.; Wright, David L.; Ruddock, Kenneth A.; Petersen, Alan B.; Carlson, Lee R.; and von Gunten, Marc K., 4,685,110, Cl. 372-103.000.

Ruddy, Brian L., to AE PLC. Treatment of pistons. 4,664,021, 5-12-87, Cl. 92-223.000.

Ruddy, Brian L.: *See*—
Holt, Jeremy; Parker, David A.; and Ruddy, Brian L., 4,669,369, Cl. 92-160.000.

Rude, Edward T., to General Clutch Corporation. Tilt mechanism for venetian blinds. 4,697,630, 10-6-87, Cl. 160-177.000.

Rudebeck, John, to Universal-Rundle Corporation. Axially symmetric valve assembly. 4,641,685, 2-10-87, Cl. 137-625.310.

Rudelis, Glen H.: *See*—
Rickard, Dale A.; and Rudelis, Glen H., 4,638,183, Cl. 307-291.000.

Rudell, Elliot: *See*—
Rudell, Elliot A.; Cernansky, Joseph S.; and Foster, George T., 4,697,812, Cl. 273-86.00B.

Rudell, Elliot A. Game with tether straps. 4,684,127, 8-4-87, Cl. 273-1.00G.

Rudell, Elliot A.; Cernansky, Joseph S.; and Foster, George T., to Rudell, Elliot. Off-road slot car and track system. 4,697,812, 10-6-87, Cl. 273-86.00B.

Rudelle, Marie-Irene, to U.S. Philips Corporation. Microwave sweep frequency oscillator. 4,695,809, 9-22-87, Cl. 331-117.00D.

Rudenauer, Friedrich: *See*—
Stangl, Gunther; and Rudenauer, Friedrich, 4,686,162, Cl. 430-5.000.

Rudenauer, Werner; Furst, Wilhelm; and Haas, Erwin, to Diehl GmbH & Co. Fuse for a small bomb. 4,658,725, 4-21-87, Cl. 102-229.000.

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Rudenauer, Werner: *See*—
Furst, Wilhelm; Rudenauer, Werner; and Siebert, Rainer, 4,648,320, Cl. 102-210.000.

Ruder, Donald J. Low vision adapter for display terminals. 4,644,396, 2-17-87, Cl. 340-731.000.

Ruderian, Max J. Hot and cold direct contact applicator. 4,640,284, 2-3-87, Cl. 128-399.000.

Ruderian, Max J. Nasal inhalation system. 4,653,494, 3-31-87, Cl. 128-203.220.

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Rudersdausen, Charles G., to Du Pont de Nemours, E. I., and Company. Synthesis of fluorochloromethanes. 4,678,855, 7-7-87, Cl. 570-167.000.

Rudi, Alain; and Bertot, Maurice, to Aciers et Outillage Peugeot. Device for transmitting through an optical coupling data issuing from a steering wheel to an element mounted on a vehicle. 4,678,908, 7-7-87, Cl. 250-227.000.

Rudi, Guttorm; and Dilling, Jan-Erik, to Tandberg Data A/S. Magnetic tape recorder. 4,636,890, 1-13-87, Cl. 360-96.500.

Rudi, Guttorm, to Tandberg Data A/S. Safety device for tape cassettes for positionally correct insertion of the tape cassette into an acceptance device. 4,636,903, 1-13-87, Cl. 360-132.000.

Rudick, Arthur G., to Coca-Cola Company, The. Microgravity beverage can cooler. 4,671,070, 6-9-87, Cl. 62-3.000.

Rudick, Arthur G., to Eastman Kodak Company. Locking mechanism for a reel storage container. 4,676,370, 6-30-87, Cl. 206-1.500.

Rudick, Arthur G., to Coca-Cola Company, The. Concentrate dispensing system for a post-mix beverage dispenser. 4,708,266, 11-24-87, Cl. 222-105.000.

Rudick, Arthur G., and Credle, William S., Jr., to Coca-Cola Company, The. Method and system for filling packages with a carbonated beverage pre-mix under micro-gravity conditions. 4,709,734, 12-1-87, Cl. 141-2.000.

Rudiger, Eckhart, to FAG Kugelfischer Georg Schafer (KGaA). Load-dependent brake pressure regulator. 4,707,037, 11-17-87, Cl. 303-22.00R.

Rudis, Thomas C.: *See*—
Marino, Michael; and Rudis, Thomas C., 4,640,427, Cl. 215-232.00.

Rudish, Ronald M.; and Hall, Scott F., to Eaton Corporation. Phased array antenna system to produce wide-open coverage of a wide angular sector with high directive gain and strong capability to resolve multiple signals. 4,652,879, 3-24-87, Cl. 342-371.000.

Rudkovsky, Evgeny M.: *See*—
Savitsky, Evgeny M.; Goikhman, Mikhail S.; Khudyk, Petr M.; Chepkasov, Valery V.; Sulyagin, Valentin V.; Polyakova, Viktoria P.; Shatinsky, Viktor F.; Gorina, Nelli B.; and Rudkovsky, Evgeny M., 4,654,237, Cl. 427-431.000.

Rudland, Peter E., to Time and Data Systems International Limited. Identification card with improved concealed coding and an optical swipe reader housing for use with it. 4,678,898, 7-7-87, Cl. 235-468.000.

Rudloff, David A. C. Penile implant. 4,664,100, 5-12-87, Cl. 128-79.000.

Rudloff, Frederick A.: *See*—
Masterson, Ian F.; George, David B.; and Rudloff, Frederick A., 4,657,586, Cl. 75-76.000.

Rudman, Christopher G.: *See*—
Jones, Theodore; and Rudman, Christopher G., 4,699,897, Cl. 514-4.000.

Rudman, Peter S.: *See*—
Goodell, Paul D.; Huston, Ernest L.; Rudman, Peter S.; and Sandrock, Gary D., 4,687,650, Cl. 423-248.000.

Rudnic, Edward M.: *See*—
DeCrosta, Mark T.; Jain, Nemichand B.; and Rudnic, Edward M., 4,666,705, Cl. 424-482.000.

Rudnick, Leslie R., to Mobil Oil Corporation. Process for upgrading heavy petroleum feedstock. 4,642,175, 2-10-87, Cl. 208-88.000.

Rudos, Boris L. Bullet proof armor shield. 4,633,756, 1-6-87, Cl. 89-36.020.

Rudolf, Felix, to Foundation Suisse pour la Recherche en Microtechnique. Semiconductor device responsive to ions. 4,636,827, 1-13-87, Cl. 357-25.000.

Rudolf, Felix, to Centre Electronique Horloger S.A. Torsion type magnetic field measurement device. 4,680,544, 7-14-87, Cl. 324-259.000.

Rudolf, Hans-Joachim: *See*—
Hamackers, Arno; and Rudolf, Hans-Joachim, 4,666,137, Cl. 267-140.100.

Rudolf, Hans-Werner: *See*—
Lechner, Robert; Rudolf, Hans-Werner; and Krimmer, Roland, 4,715,058, Cl. 379-27.000.

Rudolf, Karl: *See*—
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Rudolf, Peter: *See*—
Hibst, Hartmut; Rudolf, Peter; and McKee, Graham E., 4,675,170, Cl. 423-594.000.
Ohlinger, Manfred; Mueller, Norbert; Rudolf, Peter; and Wettstein, Eugen, 4,670,177, Cl. 252-62.550.

Rudolf, Reiner: *See*—
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Rudolf Riester GmbH & Co. KG Fabrik: *See*—
Riester, Karlheinz, 4,685,452, Cl. 128-9.000.

Rudolf Riester GmbH & Co. KG Fabrik med. Apparate: *See*—
Riester, Karlheinz, 4,643,171, Cl. 128-9.000.

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Rajakovics, Gundolf E., 4,675,603, Cl. 324-208.000.

Rudolph, Dieter, to Trutzschler GmbH & Co. KG. Dual chute fiber tuft feeding apparatus. 4,697,309, 10-6-87, Cl. 19-105.000.

Rudolph, Georg, to Wandel u. Goltermann GmbH & Co. Digitally controlled variable frequency synthesizer. 4,697,156, 9-29-87, Cl. 331-1.00A.

Rudolph, Gert: *See*—
Schmekel, Gerald; and Rudolph, Gert, 4,641,667, Cl. 131-352.000.

Rudolph, Hans: *See*—
Meier, Helmut-Martin; Heine, Hans-Georg; Pischtschan, Alfred; Dhein, Rolf; and Rudolph, Hans, 4,710,529, Cl. 524-139.000.

Rudolph, Joachim, to Werner & Pfleiderer. Method and apparatus for controlled supply of color concentrates into an extruder to obtain a plastic product of desired coloration. 4,684,488, 8-4-87, Cl. 264-40.200.

Rudolph, Johann, to Vacuumschmelze GmbH. Apparatus for covering metallic billets with aluminum. 4,715,207, 12-29-87, Cl. 72-268.000.

Rudolph, John M., and Wohlhieter, George M., to AMISTAK Corporation. Surface mounted component transport mechanism. 4,634,570, 9-22-87, Cl. 29-740.000.

Rudolph nee Otten, Anna G., heir: *See*—
Memminger, Fritz; Otten, Joachim W., deceased; Otten, Ursula, heir; and Rudolph nee Otten, Anna G., heir, 4,649,193, Cl. 534-622.000.

Rudolph, Peter K. C., to Boeing Company, The. Airfoil flap member with flap track member. 4,669,687, 6-2-87, Cl. 244-215.000.

Rudolph, Peter K. C., to Boeing Company, The. Aileron system for aircraft and method of operating the same. 4,705,236, 11-10-87, Cl. 244-90.00R.

Rudolph, Steven M.; and Maxwell, Donald J., to Eidos Corporation. Low profile extensible support platform. 4,682,750, 7-28-87, Cl. 248-421.000.

Rudolph, Thomas E., to Eidos Corporation. Avian decoy covering. 4,691,464, 9-8-87, Cl. 43-3.000.

Rudolph, Udo: *See*—
Kauth, Hermann; Schmidt, Manfred; Freitag, Dieter; Rudolph, Udo; and Kleiner, Frank, 4,701,554, Cl. 564-14.000.

Rudolph, Werner: *See*—
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Willenberg, Heinrich; Pohlmeyer, Wilhelm; and Rudolph, Werner, 4,694,112, Cl. 568-842.000.

Rudroff, Wolf-Dietrich. Process for the recovery of valuable substances from lacquer sludge. 4,711,729, 12-8-87, Cl. 210-781.000.

Rudszinat, Willy, to Hauni-Werke Korber & Co. KG. Apparatus for trimming a stream of smokable material. 4,651,755, 3-24-87, Cl. 131-84.400.

Rudy, George D.: *See*—
Hilliard, Lloyd D.; and Rudy, George D., 4,663,883, Cl. 47-33.000.

Rudy, John O.: *See*—
Kaltenbach, Karl W.; Rettew, Stephen; Rudy, John O.; and Szakacs, Gabor L., 4,649,028, Cl. 422-100.000.
Kaltenbach, Karl W.; Rettew, Stephen; Rudy, John O.; and Szakacs, Gabor L., 4,705,668, Cl. 422-82.000.

Rudy, Michael; Cary, Paul; and Anderson, Gary S., to Filenet Corporation. Optical storage and retrieval device. 4,675,856, 6-23-87, Cl. 369-36.000.

Rudy, Michael; Cary, Paul; Anderson, Gary S.; and Roth, Arthur A., to Filenet Corporation. Optical storage and retrieval device. 4,685,095, 8-4-87, Cl. 369-36.000.

Rudy, Richard M.; and Fitzgerald, Thomas J. Liquid level sensor for controlling pump operation. 4,678,403, 7-7-87, Cl. 417-12.000.

Rudy, Willi; and Lange, Gerhard, to Wafios Maschinenfabrik GmbH & Co. KG. Method and apparatus for producing oval chain links from round wire. 4,694,644, 9-22-87, Cl. 59-27.000.

Rudy, William J., Jr.; and Wycheck, Thomas H., to AMP Incorporated. Retention article for electrical contacts. 4,684,187, 8-4-87, Cl. 439-600.000.

Rudy, William J., Jr.: *See*—
Denlinger, Keith R.; Rudy, William J., Jr.; and Stahl, Daniel E., 4,685,886, Cl. 439-55.000.

Rue, Robert H., to Harvey Hubbell Incorporated. HID lamp ballast tester. 4,695,803, 9-22-87, Cl. 324-403.000.

Rueb, Fritz A. Toothbrush with exchangeable bristle carrier. 4,683,604, 8-4-87, Cl. 15-176.000.

Rueb, John T.: *See*—
Jorgensen, Jens L.; Haskett, Thomas E.; and Rueb, John T., 4,699,842, Cl. 428-343.000.

Ruebsamen, Klaus: *See*—
Gess, Karl-Heinz; Schmied, Bernhard; Raschack, Manfred; Lehmann, Hans-Dieter; Gries, Josef; and Ruebsamen, Klaus, 4,710,496, Cl. 514-183.000.

Ruechardt, Christoph; Jaehme, Joachim; and Salz, Ulrich, to BASF Aktiengesellschaft. Preparation of optically active carboxylic acids. 4,691,020, 9-1-87, Cl. 546-341.000.

Rueckl, Roger L., to United States Steel Corporation. High strength coke-oven mortar. 4,695,323, 9-22-87, Cl. 106-85.000.

Ruedie, Manfred; and Stoll, Kurt. Spool valve. 4,646,785, 3-3-87, Cl. 137-625.640.

Ruef, Lloyd M.: *See*—
Li, Allen S.; Eccles, Richard M.; and Ruef, Lloyd M., 4,673,552, Cl. 422-140.000.

Ruegg, Christoph; Vouroi, Peter; Fuchs, Willi; and Meister, Hans U., to Ciba-Geigy Corporation. Connection between a plastics quill shaft and a metal element. 4,715,739, 12-29-87, Cl. 403-30.000.

Ruegg, Rudolf: *See*—
Bollag, Werner; Ruegg, Rudolf; and Ryser, Gottlieb, 4,656,310, Cl. 568-9.000.

Ruehl, William E.; Heidorn, Richard H.; and Swick, E. Grant, to Illinois Tool Works Inc. Transient voltage protector. 4,654,743, 3-31-87, Cl. 361-111.000.

Ruehle, Guenter: *See*—
Hickmann, Udo; and Ruehle, Guenter, 4,700,820, Cl. 192-48.500.

Ruehr, Volker, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Pneumatic pressure switch for tire pressure monitor. 4,701,742, 10-20-87, Cl. 340-58.000.

Ruelle, Jean-Jacques; d'Andrea, Giacomo; and Asselberghs, Leopold, to Solvay & Cie (Societe Anonyme). Apparatus for fast determination of the rheological properties of thermoplastics. 4,680,958, 7-21-87, Cl. 73-56.000.

Ruesch, Merlin R., to Loctite Corporation. Dripless syringe. 4,708,270, 11-24-87, Cl. 222-386.500.

Rueter, Joern: *See*—
Mumcu, Salih; Panoch, Hans J.; and Rueter, Joern, 4,711,925, Cl. 524-417.000.

Ruetgerswerke Aktiengesellschaft: *See*—
Bergmann, Franz-Josef; Hockenberger, Lothar; Endruschert, Peter; and Paehler, Ralf, 4,689,395, Cl. 528-374.000.
Giebeler, Eberhard; and Wilhelm, Gerhard, 4,678,715, Cl. 428-537.100.
Orth, Winfried; Schrader, Karl-Heinz; and Fickert, Werner, 4,661,115, Cl. 8-409.000.

Ruether, John A.: *See*—
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Ruetschle, Rudolph H.; and Macey, Keith S., to K. S. Macey Machine Company, Inc. Sheet gathering apparatus. 4,706,950, 11-17-87, Cl. 270-54.000.

Ruetz, Georg; and Giesselmann, Jurgen, to MTU-Motoren- und Turbinen-Union Friedrichshafen GmbH. Fluid flow machine. 4,696,620, 9-29-87, Cl. 415-164.000.

Ruetz, Georg: *See*—
Leicht, Werner; Ruetz, Georg; and Giesselmann, Juergen, 4,702,672, Cl. 415-164.000.

Ruf, Gerhard: *See*—
Kefer, Joseph; and Ruf, Gerhard, 4,703,645, Cl. 112-259.000.

Ruf, Max; Korostenski, Erwin; and Steinwart, Johannes, to Audi AG. Suction pipe system for multicylinder internal combustion engine. 4,643,138, 2-17-87, Cl. 123-52.00M.

Ruf, Max; and Korostenski, Erwin, to Audi AG. Fluid-cooled cylinder head. 4,699,092, 10-13-87, Cl. 123-41.82R.
Rufenacht, Hanspeter: *See*—
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Ruff, Gary F.: *See*—
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Ruff, John: *See*—
Frost, John R.; Sarich, Nancy J.; Ruff, John; and Hammond, John E., 4,652,458, Cl. 426-573.000.
Ruff, John D. Centrifugal compressor with adjustable diffuser. 4,642,026, 2-10-87, Cl. 415-150.000.
Ruff, Stanley L.; and Stubbmann, Albert, to Clik-Cut, Inc. Sheet material dispenser. 4,646,956, 3-3-87, Cl. 225-77.000.
Ruff, Stanley L. Carrying bag for cones with frozen comestibles. 4,674,128, 6-16-87, Cl. 383-10.000.
Ruffin, Paul B.; Anderson, J. Gregory; and Hunter, Joe S., to United States of America, Army. Device for controlling optical fiber lag angle for fiber wound on a bobbin. 4,655,410, 4-7-87, Cl. 242-158.00R.
Ruffinatti, Giovanni, to Ruffinatti S.r.l. Machine for preparing a semi-finished confectionery product. 4,648,316, 3-10-87, Cl. 99-483.000.
Ruffinatti S.r.l.: *See*—
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Ruffing, Wolfgang: *See*—
Ross, Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, Karl-Friedrich; Muhlich, Albert; Rau, Karlheinz; Ruffing, Wolfgang; Simmat, Fritz; Steinkohl, Anton; and Takke, Ralf, 4,676,814, Cl. 65-3.120.
Ruffini, Lillian. External catheter. 4,655,755, 4-7-87, Cl. 604-352.000.
Ruffner, Bryan J. Appliance anti-theft circuitry. 4,680,574, 7-14-87, Cl. 340-571.000.
Ruffo, Angelo P., to Johnson & Johnson. Napkin construction with laminate wrapper. 4,675,013, 6-23-87, Cl. 604-366.000.
Rufray, Jean-Claude; and Pery, Antoine, to Deutsche Thomson-Brandt GmbH. Integrated circuit for the color decoder of a television set. 4,661,844, 4-28-87, Cl. 358-23.000.
Rufray, Jean-Claude: *See*—
Berland, Pierre-Axel; and Rufray, Jean-Claude, 4,686,432, Cl. 315-403.000.
Rug Doctor, Inc.: *See*—
Ogden, Stanley D., 4,651,380, Cl. 15-321.000.
Ruge, Paul M.; and Woodard, Robert W., to Outboard Marine Corporation. Outboard motor tilt lock device. 4,676,757, 6-30-87, Cl. 440-55.000.
Ruger, James; Strauss, Manfred; and Welz, Wolfgang, to Eltro GmbH. Method and circuit arrangement for frequency-, distance-, and angle-independent surface measurement. 4,643,517, 2-17-87, Cl. 350-6.600.
Ruger, James; and Welz, Wolfgang, to Eltro GmbH. Radiation detection method. 4,696,567, 9-29-87, Cl. 356-28.000.
Ruger, Roderich, to Messerschmitt-Bolkow-Blohm GmbH. Photoelectric receiver with local brightness adaptation. 4,694,333, 9-15-87, Cl. 358-113.000.
Ruger, William B., to Sturm, Ruger & Company, Inc. Revolver handle structure. 4,658,528, 4-21-87, Cl. 42-71.020.
Ruger, William B.; and Larson, Lawrence L., to Sturm, Ruger & Company, Inc. Synthetic material rifle stock with panel inserts. 4,674,216, 6-23-87, Cl. 42-71.010.
Rugg, James M.: *See*—
Cosentino, Stephen J.; Rugg, James M.; and Mauntel, Richard W., 4,701,775, Cl. 357-23.120.
Ruggeri, Guido. Assemblable freight wagon. 4,647,101, 3-3-87, Cl. 296-10.000.
Ruggeri, Zaverio M.: *See*—
Zimmerman, Theodore S.; Ruggeri, Zaverio M.; and Houghten, Richard, 4,683,291, Cl. 530-324.000.
Ruggerini, Gianfranco: *See*—
Alia, Francesco; and Ruggerini, Gianfranco, 4,689,630, Cl. 343-779.000.
Ruggieri, Daniela: *See*—
Bernardi, Luigi; Chiodini, Laura; Mantegani, Sergio; Ruggieri, Daniela; Temperilli, Aldemio; and Salvati, Patricia, 4,690,929, Cl. 514-288.000.
Ruggieri, Robert: *See*—
Ryzin, Joseph V.; Andres, Jose M.; Jensen, Dale; and Ruggieri, Robert, 4,662,904, Cl. 55-158.000.
Ruggles, Stephen G.: *See*—
Robbins, Kenneth E.; Ruggles, Stephen G.; Duncan, Dan; Williams, John C.; Tung, Stephen K.; Sumner, William J.; and Dinh, Cuong V., 4,643,645, Cl. 416-190.000.
Rugh, Clyde J.; King, John L., Jr.; Tuttle, Francis M.; and Jones, William E., to MWA Company. Die manipulator. 4,660,404, 4-28-87, Cl. 72-446.000.
Rugh, Clyde J.; King, John L., Jr.; Tuttle, Francis M.; and Jones, William E., to MWA Company. Die manipulator. 4,660,406, 4-28-87, Cl. 72-448.000.
Rugland, Larry D.: *See*—
Eastman, Robert A.; Rugland, Larry D.; and Monsrud, Edwin M., 4,697,665, Cl. 180-230.000.
Ruhenstroth-Bauer, Gerhard: *See*—
Valet, Gunter; Ruhenstroth-Bauer, Gerhard; Wunsch, Erich; and Moroder, Luis, 4,677,060, Cl. 435-29.000.
Ruhl, Hermann. Transportation equipment recorder with time accuracy. 4,656,488, 4-7-87, Cl. 346-49.000.
Ruhland, Alois: *See*—
Muller, Erwin; and Ruhland, Alois, 4,670,727, Cl. 335-274.000.
Ruhland, Dieter. Autotransfusion apparatus. 4,655,740, 4-7-87, Cl. 604-4.000.
Ruhland, Michael: *See*—
Ohlendorf, Heinrich-Wilhelm; Ruhland, Michael; and Wolf, Klaus-Ullrich, 4,672,062, Cl. 514-227.000.
Ruhlandt, Gerald K.; and Gmurowski, Romuald, to General Motors Corporation. Bore chill for lost foam casting pattern. 4,706,732, 11-17-87, Cl. 164-353.000.
Ruhle, Gunter: *See*—
Muller, Erich; Ruhle, Gunter; and Stocker, Wilhelm, 4,641,734, Cl. 192-53.00F.
Ruhle, James L. Reciprocating down-hole sand pump. 4,661,052, 4-28-87, Cl. 417-552.000.
Ruhle, James L. Method and apparatus for coring rock. 4,679,636, 7-14-87, Cl. 175-58.000.
Ruhle, Manfred; and Wincierz, Peter, to Metallgesellschaft Aktiengesellschaft. Process of producing a mechanically alloyed composite powder. 4,706,894, 11-17-87, Cl. 241-30.000.
Ruhle, Wolfgang: *See*—
Glasow, Peter; and Ruhle, Wolfgang, 4,638,165, Cl. 250-370.000.
Ruhmer, Heinz: *See*—
Leineweber, Gunter; Warnecke, Rolf; and Ruhmer, Heinz, 4,638,719, Cl. 91-373.000.
Ruhnau, Gerhard, to WABCO Westinghouse Fahrzeugbremsen GmbH. Overvoltage protection circuit arrangement for vehicular antiskid brake control systems. 4,703,388, 10-27-87, Cl. 361-91.000.
Ruhnau, Gerhard: *See*—
Reinecke, Erich; and Ruhnau, Gerhard, 4,661,910, Cl. 364-426.000.
Ruhrchemie Aktiengesellschaft: *See*—
Bahrmann, Helmut; Cornils, Boy; Lipps, Wolfgang; Lappe, Peter; and Springer, Helmut, 4,673,535, Cl. 260-501.150.
Bahrmann, Helmut; Cornils, Boy; Lipps, Wolfgang; Lappe, Peter; and Springer, Helmut, 4,710,321, Cl. 200-501.150.
Kessen, Gunther; Cornils, Boy; Gick, Wilhelm; Wiebus, Ernst; Hibbel, Joseph; Bach, Hanswilhelm; and Zgorzelski, Wolfgang, 4,684,750, Cl. 568-883.000.
Morguet, Hermann; Hobes, John; Spaleck, Walter; and Payer, Wolfgang, 4,663,301, Cl. 502-110.000.
Ulrichs, Klaus; Hibbel, Joseph; Schmidt, Volkmar; Lieder, Bernard; Scheve, Heinrich; Schulze-Frenking, Burchard; Hofs, Wolfgang; and Nottebohm, Jurgen, 4,699,773, Cl. 423-396.000.
Ruhrechemie Aktiengesellschaft: *See*—
Konkol, Werner; Bahrmann, Helmut; Dambkes, Georg; Gick, Wilhelm; Wiebus, Ernst; and Bach, Hanswilhelm, 4,711,648, Cl. 55-73.000.
Ruhrgas Aktiengesellschaft: *See*—
Altemark, Detlef; Weid, Manfred; and Brockmann, Eugen, 4,659,306, Cl. 431-12.000.
Heuss, Helmut, 4,689,009, Cl. 432-234.000.
Jannemann, Theo; and Brunje, Horst, 4,699,122, Cl. 126-362.000.
Ruhrkohle Aktiengesellschaft: *See*—
Becker, Wolfgang; and Tewes, Heinz, 4,683,032, Cl. 202-248.000.
Langhoff, Josef; Krischke, Hermann; Geldmacher, Horst; Golomb, Manfred; Kamp, Karl-Heinz; Masuch, Peter; and Chalupnik, Rolf, 4,715,809, Cl. 431-170.000.
Schafer, Wolfgang, 4,670,023, Cl. 48-77.000.
Schafer, Wolfgang, 4,674,418, Cl. 110-229.000.
Wolowski, Eckard; and Mirtsch, Frank, 4,636,300, Cl. 208-400.000.
Wolowski, Eckard; and Dohms, Klaus-Dieter, 4,675,102, Cl. 208-400.000.
Wolowski, Eckard; Mirtsch, Frank; and Dybus, Herbert, 4,696,735, Cl. 208-408.000.
Ruhrmann, Wolfgang. Optical sensor constituting a light transmissive medium with luminescent particles. 4,650,992, 3-17-87, Cl. 250-227.000.
Ruhter, Martin L.; and Loney, Allan F., to Deere & Company. Method of arranging function controls for a vehicle. 4,664,220, 5-12-87, Cl. 180-315.000.
Ruhter, Martin L.; and Loney, Allan F., to Deere & Company. Steering unit and control lever console for a vehicle. 4,682,787, 7-28-87, Cl. 280-775.000.
Ruhter, Martin L.; Brimeyer, Dennis A.; and Stubben, David W., to Deere & Company. Motor grader with saddle mounted to transverse pin on main frame. 4,696,350, 9-29-87, Cl. 172-793.000.
Ruhter, Martin L., to Deere & Company. Rear steer angle indicator for articulating vehicle. 4,696,486, 9-29-87, Cl. 280-400.000.
Ruhter, Martin L.: *See*—
Loney, Allan F.; and Ruhter, Martin L., 4,664,221, Cl. 180-315.000.
Ruigrok, Franciscus B. M., to Heras Holding, B.V. Fence pole. 4,637,186, 1-20-87, Cl. 52-225.000.
Ruigrok, Jacobus J. M., to U.S. Philips Corporation. Multiple gap magnetic reading head. 4,669,015, 5-26-87, Cl. 360-119.000.
Ruigrok, Jacobus J. M.: *See*—
Gorter, Frederik W.; Morel, Jean-Paul G. R.; and Ruigrok, Jacobus J. M., 4,670,807, Cl. 360-120.000.
Van Ooijen, Johannes A. C.; and Ruigrok, Jacobus J. M., 4,686,472, Cl. 324-252.000.
Ruijten, Henri M.; De Bree, Hans; and Van Amsterdam, Peter H., to Duphar International Research B.V. Device for concentrating solutions. 4,697,428, 10-6-87, Cl. 62-124.000.
Ruike, Toshikatsu, to Kabushiki Kaisha Toshiba. Mechanism to mount a collimator to a radiation detector of a nuclear medicine diagnostic apparatus. 4,663,531, 5-5-87, Cl. 250-363.00S.

Ruimi, Michel: *See*—
Martinou, Robert; and Ruimi, Michel, 4,707,191, Cl. 134-3.000.
Ruin, Jean, to Mitchell Sports. Removable spool for a fishing rod reel. 4,651,945, 3-24-87, Cl. 242-84.20R.
Ruinsky, Michael: *See*—
Basmadji, Mounir P.; and Ruinsky, Michael, 4,662,421, Cl. 160-38.000.
Ruiz, Ariel: *See*—
Heng, Jean-Paul; Marmonier, Andre ; Ruiz, Ariel; and Guernet, Henri, 4,693,542, Cl. 439-626.000.
Ruiz, Ernest; and Wenman, Michael S., to Minneapolis Medical Research Foundation, Inc. Method for monitoring infusion of intravenous fluid into a patient. 4,650,464, 3-17-87, Cl. 604-49.000.
Ruiz, Guillermo E. Leak-proof closures. 4,714,173, 12-22-87, Cl. 220-90.400.
Ruiz, Jose M. Locking ring for electrical measuring device. 4,674,778, 6-23-87, Cl. 292-256.600.
Ruiz, Marco A.: *See*—
Wever, Ruben, Allred, Lorin D.; and Ruiz, Marco A., 4,663,776, Cl. 379-29.000.
Ruiz-Ontiveros, Saul R.: *See*—
Canales-Santos, Enrique; Carro-de-la-Fuente, Guillermo; and Ruiz-Ontiveros, Saul R., 4,705,550, Cl. 65-32.000.
Ruiz, Orlando: *See*—
Fossas, Arturo; and Ruiz, Orlando, 4,703,499, Cl. 379-194.000.
Ruiz, Pierre: *See*—
Leroy, Jean L.; and Ruiz, Pierre, 4,654,186, Cl. 376-216.000.
Ruiz, Robert, to James Industries Limited. Toilet chairs. 4,634,183, 1-6-87, Cl. 297-433.000.
Ruiz, Thomas M.: *See*—
Johnson, Steven E.; Karst, John; and Ruiz, Thomas M., 4,648,062, Cl. 364-900.000.
Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., 4,648,067, Cl. 364-900.000.
Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., 4,648,071, Cl. 364-900.000.
Ruka, Roswell J.: *See*—
Isenberg, Arnold O.; and Ruka, Roswell J., 4,692,274, Cl. 252-521.000.
Rukavina, Lou: *See*—
Soeffker, Eldred E.; and Rukavina, Lou, 4,686,735, Cl. 15-320.000.
Rukavina, Thomas G., to PPG Industries, Inc. Cyanoethylacrylate/acrylic acid copolymer. 4,670,350, 6-2-87, Cl. 428-520.000.
Rukovena, Frank, Jr., to Norton Company. Liquid-gas absorption process. 4,708,856, 11-24-87, Cl. 423-242.000.
Rukszns, Ronald E.: *See*—
Westhaver, Lawrence A.; and Rukszns, Ronald E., 4,639,655, Cl. 320-14.000.
Rule, Dennis A.: *See*—
Connor, Richard C.; and Rule, Dennis A., 4,633,975, Cl. 182-63.000.
Rule Industries, Inc.: *See*—
Witte, W. Gordon; and Anastos, William N., 4,656,751, Cl. 33-358.000.
Rule, Mark; Larkins, Thomas H., Jr.; Lane, Donald W.; and Steinmetz, Guy R., to Eastman Kodak Company. Carbonylation process for the production of aromatic acids. 4,649,216, 3-10-87, Cl. 562-406.000.
Rule, Mark: *See*—
Lane, Donald W.; Larkins, Thomas H., Jr.; and Rule, Mark, 4,654,436, Cl. 560-80.000.
Steinmetz, Guy R.; and Rule, Mark, 4,705,890, Cl. 562-406.000.
Rule, Michael V.: *See*—
Instone, Giles A.; Rule, Michael V.; and van Riemsdijk, Ronald E., 4,674,645, Cl. 220-1.500.
Rule, Robert D.; Skaggs, Bruce A.; and King, Gerald E., to Borg-Warner Corporation. Combination range and master clutch assembly. 4,637,504, 1-20-87, Cl. 192-87.170.
Rulf, Donald C.; and North, Edwin R., to Dow Chemical Company, The. Self-diagnostic gel permeation/size exclusion chromatograph. 4,674,323, 6-23-87, Cl. 73-61.10C.
Rulis, Dean A.: *See*—
Orimiston, Thomas J.; and Rulis, Dean A., 4,671,740, Cl. 416-241.00B.
Rullier, Pierre, to Salomon S.A. Safety ski binding. 4,639,011, 1-27-87, Cl. 280-628.000.
Rullier, Pierre: *See*—
Dimier, Jean-Pierre; and Rullier, Pierre, 4,709,942, Cl. 280-618.000.
Pascal, Roger; and Rullier, Pierre, 4,684,147, Cl. 280-628.000.
Rullman, Robert G.: *See*—
Gaskill, Garold B.; Park, Daniel J.; Rullman, Robert G.; Rose, Donald T.; Stiley, Joseph F., III; Barnum, Lewis W.; and Hoff, Don G., 4,713,808, Cl. 370-94.000.
Rullo, Antonio: *See*—
Buhler, Ernst; and Rullo, Antonio, 4,713,516, Cl. 219-69.00P.
Rulseh, Elroy M.: *See*—
Nelson, Peter K.; and Rulseh, Elroy M., 4,659,305, Cl. 431-9.000.
Rumbaugh, James T., to Berkley and Company, Inc. Apparatus for stripping fish line from a spool and sharpening fish hooks. 4,635,406, 1-13-87, Cl. 51-181.00R.
Rumbaugh, James T., to Berkley and Company, Inc. Fishing rod handle assembly. 4,646,460, 3-3-87, Cl. 43-22.000.
Rumbaugh, James T.: *See*—
McMickle, Robert L.; Rumbaugh, James T.; and Netsch, Robert L., 4,641,860, Cl. 285-38.000.
Rumbaugh, William D.; and Waters, Fleming A., to Otis Engineering Corporation. Surface controlled subsurface safety valve. 4,667,736, 5-26-87, Cl. 166-65.100.
Rumbaugh, William D., to Otis Engineering Corporation. Well test tool and system. 4,669,537, 6-2-87, Cl. 166-113.000.
Rumbelow, George: *See*—
Reid, Iain K.; Staite, Eric; Richmond, Doug; and Rumbelow, George, 4,637,667, Cl. 312-217.000.
Rumbolt, Robin B.; McIntyre, William R.; and Goodson, Larry E., to NAP Consumer Electronics Corp. Universal remote control unit with model identification capability. 4,703,359, 10-27-87, Cl. 358-194.100.
Rumelhard, Christian, to Thomson-CSF. Biasing circuit for a field effect transistor. 4,686,387, 8-11-87, Cl. 307-296.00R.
Rumens, Kurt W. F.; Holley, Robert E., Jr.; Atemboski, Alan; and Barnett, Stockton, to Lopi International, Ltd. Stove. 4,665,889, 5-19-87, Cl. 126-77.000.
Rumignani, Paolo: *See*—
Bachet, Michel; and Rumignani, Paolo, 4,635,779, Cl. 192-89.00B.
Billet, Rene ; Rumignani, Paolo; and Chasseguet, Gustave, 4,698,045, Cl. 464-68.000.
Ruminson, Wallace E. Intraocular lens for posterior chamber implantation. 4,704,125, 11-3-87, Cl. 623-6.000.
Rummel, Andreas: *See*—
Michel, Wolfgang; Paul, Heinz; Kostler, Dieter; Wilhelm, Frank; Rummel, Andreas; Seher, Gero; Henze, Wilfried; Hander, Ralf; Heinemann, Jurgen; and Ossowski, Manfred, 4,652,430, Cl. 422-142.000.
Rummel, Peter; and Wolfgang, Eckhard, to Siemens Aktiengesellschaft. Method and apparatus for automatically positioning a particle beam. 4,705,954, 11-10-87, Cl. 250-491.100.
Rummel, Raymond W., to White Consolidated Industries, Inc. Control circuit for combination washer and dryer. 4,663,948, 5-12-87, Cl. 68-12.00R.
Rummel, Raymond W.; and Crystal, Anthony A., to White Consolidated Industries, Inc. Dryer mounting bracket assembly. 4,680,948, 7-21-87, Cl. 68-3.00R.
Rummelsburg, Al S.: *See*—
Thoben, Matthew A.; Clowers, Earl; Cihi, Guy; Ball, Dean; McCurdy, Jack L.; and Rummelsburg, Al S., 4,645,909, Cl. 219-411.000.
Rumney, Roger E. Snow hydrant. 4,703,776, 11-3-87, Cl. 137-625.360.
Rump, Jurgen: *See*—
Menell, Hans; Ringhoff, Hubert; and Rump, Jurgen, 4,711,691, Cl. 156-415.000.
Rumpel, Manfred, to Ford Motor Company. Independent wheel suspension with toe correcting link. 4,714,270, 12-22-87, Cl. 280-690.000.
Rumpf, Jurg: *See*—
Hoegerle, Karl; Cellarius, Hans J.; Rathgeb, Paul; and Rumpf, Jurg, 4,686,294, Cl. 548-140.000.
Rumphorst, Reiner F.: *See*—
Dessens, Petrus A.; and Rumphorst, Reiner F., 4,673,864, Cl. 323-221.000.
Rumpp, Gerhard. Front guard bar for motor vehicles. 4,657,294, 4-14-87, Cl. 293-115.000.
Rumpp, Gerhard: *See*—
Hunger, Josef; and Rumpp, Gerhard, 4,655,651, Cl. 408-226.000.
Neumaier, Anton; Hoereth, Hans-Jurgen; and Rumpp, Gerhard, 4,691,929, Cl. 279-19.300.
Regelsberger, Wolfgang; Rumpp, Gerhard; and Spieth, Manfred, 4,652,187, Cl. 408-240.000.
Theissig, Werner; and Rumpp, Gerhard, 4,664,394, Cl. 279-1.0ME.
Rumreich, Mark F., to RCA Corporation. Video signal processing system with offset sound trap. 4,660,087, 4-21-87, Cl. 358-197.000.
Rumreich, Mark F., to RCA Corporation. System for processing a scrambled video signal. 4,670,904, 6-2-87, Cl. 380-15.000.
Rumreich, Mark F., to RCA Corporation. Automatic gain control of a scrambled video signal. 4,706,285, 11-10-87, Cl. 380-14.000.
Rumsey, Daniel. Sound producing ball. 4,662,260, 5-5-87, Cl. 84-1.010.
Rumsey, John: *See*—
Maczuszenko, Andrzej; Theodoulou, Sotos M.; and Rumsey, John, 4,692,017, Cl. 355-3.0DD.
Rumsey, Roger L., to Balco, Inc. Fire-rated flush mounted corner guard. 4,706,426, 11-17-87, Cl. 52-232.000.
Rumsey, Roger L.: *See*—
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Rumsey, Steven C.; Reiss, John R.; and Cymbor, Wayne P., to American Standard Inc. Cross blending electro-dynamic/friction brake system for multi-car train consist having mixed power and non-power cars. 4,659,149, 4-21-87, Cl. 303-3.000.
Runavot, Yves; Thiot, Andre; and Salvetat, Jacques. Resinous copolymer composition based on hydrocarbons and their use in adhesives. 4,698,405, 10-6-87, Cl. 526-347.000.
Runde, Kenneth R. Rotary speed reducer. 4,671,128, 6-9-87, Cl. 74-117.000.
Rundell, Herbert A.; Vinton, Richard H.; and Savage, Kerry D., to Texaco Inc. Protective device for RF applicator in in-situ oil shale retorting. 4,660,636, 4-28-87, Cl. 166-60.000.
Rundle, Kenneth P. Transmission and PTO system for tractors and utility cycles. 4,658,662, 4-21-87, Cl. 74-331.000.
Rundle, Kenneth P. Variable speed tractor transmission and single lever control. 4,698,048, 10-6-87, Cl. 474-27.000.
Rundle, Kenneth P. Wide range transmission. 4,713,983, 12-22-87, Cl. 74-701.000.

Rundsztuk, Marek. *See*—
Baurand, Gilles; Fouret, Rene; and Rundsztuk, Marek, 4,709,205, Cl. 324-127.000.

Rundt, Kenneth. *See*—
Nurmi, Jarmo; Rundt, Kenneth; and Oikari, Timo, 4,687,935, Cl. 250-361.00R.

Rundt, Kenneth C. A.; Oikari, Timo E. T.; and Kouru, Heikki K. J., to Wallac Oy. Method for calibrating liquid scintillation counters, 4,652,751, 3-24-87, Cl. 250-252.100.

Rundt, Kenneth C. A. *See*—
Oikari, Timo E. T.; and Rundt, Kenneth C. A., 4,700,072, Cl. 250-328.000.

Rundzaitis, Alfons, to Associated Mills, Inc. Showerhead, 4,657,185, 4-14-87, Cl. 239-438.000.

Runeman, Bo, to Molnlycke AB. Incontinence protector and a method for its manufacture, 4,710,188, 12-1-87, Cl. 604-385.00R.

Rung, Robert, and Ache, Lam G., to Victaulic Company of America. Self-adjusting pipe clamp and coupling, 4,639,020, 1-27-87, Cl. 285-367.000.

Rung, Robert; and Schwarz, Philip R., to Victaulic Company of America. Alarm test device for a sprinkler system, 4,643,224, 2-17-87, Cl. 137-559.000.

Rung, Robert, to Victaulic Company of America. Flow metering sight glass, 4,704,983, 11-10-87, Cl. 116-276.000.

Rung, Robert. *See*—
deRaymond, Peter G.; and Rung, Robert, 4,702,499, Cl. 285-112.000.
McLennan, William R.; Piccotti, Albert J.; and Rung, Robert, 4,699,217, Cl. 169-.7.000.

Rungeler, Andreas. *See*—
Kammeyer, Karl-Dirk; and Rungeler, Andreas, 4,646,173, Cl. 360-51.000.

Rungger, Helmut; and Linsinger, Ernst, deceased (by Linsinger, Margarete, heir), to Dr. Techn. Linsinger & Co. Gesellschaft m.b.H. Method and apparatus for severing comparatively long workpieces, such as pipes, in particular at high temperatures, 4,655,109, 4-7-87, Cl. 82-47.000.

Rungz, Yung. Electrode structure for a cathode glow discharge system, 4,716,338, 12-29-87, Cl. 313-619.000.

Runson, Harold L. *See*—
Divins, Larry A.; and Runson, Harold L., 4,656,015, Cl. 423-261.000.

Runkel, Heinrich. *See*—
Plicht, Hans-Jurgen; and Runkel, Heinrich, 4,648,314, Cl. 99-373.000.

Runkel, Walter; Lenk, Erich; and Bauer, Karl, to Barmag Barmer Maschinenfabrik AG. Yarn heating chamber, 4,641,504, 2-10-87, Cl. 68-5.00E.

Runkle, Charles J. *See*—
Ostot, Roger S.; and Runkle, Charles J., 4,678,573, Cl. 210-321.100.

Runkle, Dean E., to Allied Corporation. Universal joint with stationary seats, 4,636,180, 1-13-87, Cl. 464-120.000.

Runkle, Dean E.; and Gaiser, Robert F., to Allied Corporation. Deceleration and pressure sensitive proportioning valve with high pressure damping, 4,652,058, 3-24-87, Cl. 303-6.00C.

Runnells, Ann. *See*—
LaMonica, Joseph B., 4,685,239, Cl. 43-6.000.

Runnels, Franklin D., to FRW Industries, Inc. Watertight manhole insert, 4,650,365, 3-17-87, Cl. 404-25.000.

Runquist, Jonas A.; Howard, William G.; and Berberick, David R., to Medtronic, Inc. Current collectors for batteries having cathode-electrolytes and batteries incorporating same, 4,666,795, 5-19-87, Cl. 429-101.000.

Runshe, Clay R. *See*—
Breit, Dennis A.; and Runshe, Clay R., 4,693,786, Cl. 202-83.000.

Runyon, Peter M. *See*—
Larson, Donald A.; and Runyon, Peter M., 4,677,791, Cl. 49-463.000.

Runyon, Robert C., to Substrate Systems, Inc. Computer memory disc and method for machining same, 4,640,651, 2-3-87, Cl. 409-132.000.

Runzheimer, Hans-volker; Nehen, Ulrich; and Jabs, Gert. Imidazo[1,5-A]pyridylmethanes, 4,687,853, 8-18-87, Cl. 546-121.000.

Runzi, Kurt. Dual sheet feeder for typewriters, output printers or the like, 4,664,546, 5-12-87, Cl. 400-624.000.

Runzi, Kurt. Method of aligning cut sheets in typewriters, output printers or the like, 4,687,362, 8-18-87, Cl. 400-630.000.

Runzi, Kurt. Sheet supply apparatus for typewriters, having skewing rollers engaging a platen roll, and method, 4,711,442, 12-8-87, Cl. 271-22.000.

Ruof, Edgar J. *See*—
Lilley, Ronald C.; and Ruof, Edgar J., 4,667,781, Cl. 188-382.000.

Ruoff, Manfred. *See*—
Geringer, Bernhard; Linder, Ernst; Rembold, Helmut; and Ruoff, Manfred, 4,671,221, Cl. 123-90.160.
Rembold, Helmut; Ruoff, Manfred; and Teegen, Walter, 4,674,451, Cl. 123-90.160.

Ruoff-Schafer, Rudolf, to Mussel GmbH & Co. Insulating material for pipes, 4,642,253, 2-10-87, Cl. 428-36.000.

Ruopsa, Jon A. Particle collection system, 4,697,390, 10-6-87, Cl. 51-270.000.

Ruoslahti, Erkki I.; and Pierschbacher, Michael D., to La Jolla Cancer Research Foundation. Polypeptide, 4,661,111, 4-28-87, Cl. 623-11.000.

Rupchock, Patricia A. *See*—
Greenquist, Alfred C.; Li, Thomas M.; Rupchock, Patricia A.; Tyhach, Richard J.; and Walter, Bert, 4,668,619, Cl. 435-7.000.

Rupert, Gary F. *See*—
Check, John M.; and Rupert, Gary F., 4,644,125, Cl. 219-69.000.

Rupert, Martin R. *See*—
Caron, Bernard G.; Hoffer, John C.; and Rupert, Martin R., 4,666,240, Cl. 350-96.200.
Hoffer, John C.; Caron, Bernard G.; and Rupert, Martin R., 4,655,764, Cl. 350-96.200.

Rupinskas, Vytautas, to Kendall Company, The. Surgical sponge, 4,704,109, 11-3-87, Cl. 604-362.000.

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Rupp, Hartmann. *See*—
Kulbach, Hans; and Rupp, Hartmann, 4,639,822, Cl. 361-155.000.

Rupp, Herbert E. Mobile radio antenna support devices, 4,667,210, 8-18-87, Cl. 248-539.000.

Rupp, James W., to Allied Corporation. Method of manufacturing a rotor, 4,680,844, 7-21-87, Cl. 29-156.40R.

Rupp, Roland. *See*—
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Ruppel, John S., to Motorola, Inc. Broadband solid state antenna switch, 4,637,065, 1-13-87, Cl. 455-78.000.

Ruppert, Heinrich W.; and Gatschmann, Klaus, to ETK&S-Werke Fur Kichn. GmbH. Apparatus for filling cigarette tubes, 4,658,837, 4-21-87, Cl. 131-70.000.

Ruppert, Thomas. *See*—
Thomas, Frank; Ruppert, Thomas; and Warmulla, Karl F., 4,689,490, Cl. 250-566.000.

Ruppman, Kurt H.; and Prano, Charles A., to Plastic Recycling Inc. Apparatus and method for recycling plastic beverage containers, 4,715,920, 12-29-87, Cl. 156-344.000.

Ruppmann, Claus. *See*—
Bertsch, Richard; Gunther, Dieter; and Ruppmann, Claus, 4,664,142, Cl. 137-507.000.
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Rupprecht, Bernd, to Deutsche Perrot-Bremse GmbH. Expander mechanism for an internal shoe drum brake, 4,637,499, 1-20-87, Cl. 188-79.50R.

Rupprecht, Christian. Item of sports equipment or games device, 4,705,272, 11-10-87, Cl. 272-146.000.

Rupprecht, Eckhard. *See*—
Brickl, Rolf; Schepky, Gottfried; Rupprecht, Eckhard; and Greischel, Andreas, 4,708,868, Cl. 924-80.000.
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Rupprecht, Gerhard, to Florzheimer Uhren-Rohwerke Porta GmbH. Watch drive, 4,652,142, 3-24-87, Cl. 368-324.000.

Rupprecht, Hans. *See*—
Deutschenbaur, Paul; Rupprecht, Hans; Burtscher, Norbert; and Nigg, Bernd, 4,701,083, Cl. 408-240.000.

Rupprecht, Karl, to Claas Ohg. Harvester thresher, 4,660,085, 2-17-87, Cl. 56-14.600.

Rupprecht, Karl, to Claas OHG. Cutting trough unit for agricultural machines with flexible cutting mechanism, 4,665,685, 5-19-87, Cl. 56-208.000.

Rupprecht, Kathleen M. *See*—
Chang, Michael N.; Jensen, Norman P.; Hammond, Milton L.; Zambias, Robert A.; McDonald, John; and Rupprecht, Kathleen M., 4,686,235, Cl. 514-520.000.
Durette, Philippe L.; Witzel, Bruce E.; Rupprecht, Kathleen M.; Tischler, Allan N.; and Gallagher, Timothy J., 4,863,344, Cl. 514-443.000.

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Rupprechter, Helmut. *See*—
Rock, Erich; Rupprechter, Helmut; and Brustle, Klaus, 4,654,852, Cl. 16-382.000.
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Rupprich, Christian. *See*—
Henklein, Peter; Becker, Manfred; Buttner, Werner; Loth, Fritz; Dautzenberg, Hoets, Forner, Klaus; Dolling, Rudolf; Gross, Karl-Heinz; Halatsch, Wolf-Rainer; and Rupprich, Christian, 4,714,768, Cl. 548-435.000.

Ruprecht, Hans-Dieter. *See*—
Trummelmeyer, Gerhard; and Ruprecht, Hans-Dieter, 4,716,23[illegible], Cl. 528-75.000.

Ruprecht, Jurgen. *See*—
Johannes, Kurt J.; and Ruprecht, Jurgen, 4,689,665, Cl. 358-27[illegible].
Moring, Wilhelm; Nillesen, Antonius H. H. J.; and Ruprecht, Jurgen, 4,689,664, Cl. 358-23.000.

Rupublic Steel Corpotation. *See*—
Harris, Richard M.; Valek, David A.; Toth, James M.; and Abramczyk, Richard F., 4,673,879, Cl. 324-240.000.

Ruunen, Hannu. *See*—
Ruutskorpi, Paavo; Manttari, Risto; Linnatamen, Heikki; Perno, Heikki; Tuomainen, Heikki; and Ruusuen, Hanna. 4,708,011, Cl. 73-63.000.

Ruzzelli, Emilio; Carrera, Cesare; and Formenti, Giuseppe, to Pneumatici Clement S.p.A. Universal tubular-tire for bicycles. 4,709,759, 12-1-87, Cl. 152-453.000.

Rusch, Randy A.; Kittle, Douglas A.; Ulfers, Bernhard G.; and Inman, Stephen L., to General Motors Corporation. Programming power paths in an IC by combined depletion and enhancement implants. 4,633,572, 1-6-87, Cl. 29-576.00B.

Rusch, Randy A., to General Motors Corporation. Uses for buried contacts in integrated circuits. 4,673,965, 6-16-87, Cl. 357-43.000.

Rusch, Reinhart. *See*—
Harre, Michael; Kruger, Hans-Rudolf; Arndt, Friedrich; and Rusch, Reinhart, 4,709,077, Cl. 560-056.000.

Rusche, Gerald A.; and Forsch, Henry A., to United States of America, Army. Infrared image cathode ray tube. 4,687,967, 8-18-87, Cl. 313-477.00R.

Rusche, Gerald A. *See*—
Neubauer, John C.; and Rusche, Gerald A., 4,677,469, Cl. 358-93.000.

Rusche, Jochen. *See*—
Ballschuh, Detlef; Seibt, Horst; Rusche, Jochen; and Ohme, Roland, 4,687,602, Cl. 260-501.120.

Ruschek, Gerhard. *See*—
Kern, Eckhart; Weingartner, Reiner; Ruschek, Gerhard; Mann, Arnold; and Schlick, Horst, 4,688,723, Cl. 239-391.000.
Sausner, Andreas; and Ruschek, Gerhard, 4,675,589, Cl. 318-599.000.
Wirtschorke, Stephan; Ruschek, Gerhard; and Sausner, Andreas, 4,662,334, Cl. 123-319.000.
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Ruschkoski, Gerald J.; and Byrd, William A., to MPX Systems, Inc. Protective container for transmission cable splice. 4,665,279, 5-12-87, Cl. 174-40.00R.

Ruscitto, Gerald L. *See*—
Tapley, William B., Jr.; and Ruscitto, Gerald L., 4,652,383, Cl. 252-8.000.

Ruscoe, David M. Apparatus and method for cold weather protection of large diesel engines. 4,711,204, 12-8-87, Cl. 123-142.50R.

Ruscoe, John B.; and Cole, Ronald A., to Max Kahn Curtain Corporation. Automatic bobbin and bobbin carrier changing apparatus for sewing machine. 4,648,338, 3-10-87, Cl. 112-180.000.

Rush, Derek A., to Smiths Industries Public Limited Company. Electrical contact assemblies and components. 4,634,198, 1-6-87, Cl. 339-17.0LC.

Rush, Derek A., to Smiths Industries Public Limited Company. Clamping means, and modules and units including clamping means. 4,644,444, 2-17-87, Cl. 361-388.000.

Rush, Elizabeth A.; Howell, Dan M.; and Kolpek, Robert A., to International Business Machines Corporation. Word processor with alternative formatted and unformatted display modes. 4,686,649, 8-11-87, Cl. 364-900.000.

Rush, Elton E., to Phillips Petroleum Company. Container piercing device. 4,649,350, 3-10-87, Cl. 324-452.000.

Rush, George C. *See*—
Nugent, John L.; Rush, George C.; and Matthews, Norman G., 4,707,665, Cl. 328-14.000.

Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearson W., to Dayco Corporation. Branched hose construction, joint construction and part therefor, and methods of making the same. 4,637,638, 1-20-87, Cl. 285-158.000.

Rush, James B.; Bryan, James S.; Gunter, Jonas L.; Dillard, Guy W.; Meadows, Roger D.; and Henry, Pearson W., to Dayco Products, Inc. Method of making a branched hose construction. 4,654,942, 4-7-87, Cl. 29-157.00T.

Rush, James B. *See*—
Meadows, Roger D.; Rush, James B.; and Bryan, James S., 4,648,628, Cl. 285-24.000.

Rush, James H.; and Dobesh, Donald J., Sr., to General Motors Corporation. Dual spray cone electromagnetic fuel injector. 4,699,323, 10-13-87, Cl. 239-585.000.

Rush, James H. *See*—
Sofianek, Jay K.; Nally, John F.; Rush, James H.; Fuss, Robert L.; Williams, John E.; and Ruckey, Allan M., 4,646,974, Cl. 239-585.000.

Rush, John L. Interlocking landscape planking. 4,695,502, 9-22-87, Cl. 428-192.000.

Rush, Lynn. *See*—
Walker, Don W.; and Rush, Lynn, 4,696,110, Cl. 33-137.00R.

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Thonar, Eugene J., 4,704,356, Cl. 435-7.000.

Rush, Virginia P. *See*—
McVay, Robert L.; Emo, Cathy V.; and Rush, Virginia P., 4,666,982, Cl. 525-109.000.

Rush, William F.; Huebler, James E.; and Lysenko, Peter, to Institute of Gas Technology. Photoacoustic speaker and method. 4,641,377, 2-3-87, Cl. 381-111.000.

Rush, William F.; Huebler, James E.; and Ziolkowski, Christopher J., to Institute of Gas Technology. Pneumatic pipe inspection device. 4,646,787, 3-3-87, Cl. 138-98.000.

Rushansky, Yuliy. *See*—
Bowden, Wade R., Jr.; and Rushansky, Yuliy, 4,688,873, Cl. 439-462.000.

Rushbrooke, Roger W. *See*—
Beale, Nicholas C. L.; Rushbrooke, Roger W.; and Gladstone, Philip J. S., 4,709,365, Cl. 371-11.000.

Rushford, Calvin R., to Indel, Inc. Revolving door collapsing mechanism. 4,640,046, 2-3-87, Cl. 49-44.000.

Rushford, Calvin R. *See*—
Hattem, Marwan E.; and Rushford, Calvin R., 4,688,350, Cl. 49-44.000.

Rushforth, Craig K. *See*—
Bishop, F. Avery; Bennett, Steven L.; and Rushforth, Craig K., 4,685,132, Cl. 380-46.000.

Rushing, Allen J. *See*—
Steele, Bruce B.; Rushing, Allen J.; and Robinson, Kelly S., 4,714,046, Cl. 118-657.000.

Rushing, Frank C.; and Weixel, Mark, to United States of America, Air Force. Wire container. 4,715,557, 12-29-87, Cl. 242-129.000.

Rushmere, John D., to Du Pont de Nemours, E. I., and Company. Process for manufacturing hydrogen peroxide. 4,668,499, 5-26-87, Cl. 423-588.000.

Rusina, Fulvio. *See*—
Dal Degan, Neviano; and Rusina, Fulvio, 4,688,224, Cl. 371-31.000.

Rusnyak, Greg. Tamper-evident closure cap. 4,674,641, 6-23-87, Cl. 215-230.000.

Rusk, Chris E. Writing aid. 4,689,020, 8-25-87, Cl. 434-166.000.

Rusk, Stanley J., to Lockheed Missiles & Space Company, Inc. Displacement measuring apparatus. 4,634,636, 1-31-87, Cl. 340-347.00P.

Rusk, Terrance P. *See*—
Kramer, Robert A.; Rusk, Terrance P.; and Salmons, David W., 4,646,940, Cl. 222-1.000.

Ruskewicz, Stephen. *See*—
Ramos, Kenneth; and Ruskewicz, Stephen, 4,676,377, Cl. 206-508.000.

Ruskewicz, Stephen J. *See*—
Magnussen, Haakon T., Jr.; Smith, Gary L.; Ruskewicz, Stephen J.; and Wingo, Anthony K., 4,671,123, Cl. 73-864.160.

Ruskey, Frank. *See*—
Oudenhoven, Martin S.; and Ruskey, Frank, 4,682,728, Cl. 236-12.120.

Ruskin, Maureen K., to E.I. Du Pont de Nemours and Company. Process for preparing toners surface coated with antistatic agent and liquid slip agent. 4,661,439, 4-28-87, Cl. 430-449.000.

Ruskin, Rodney; and Sacks, Rael, to Agrifim Irrigation International NV. Process for making drip irrigation lines. 4,702,787, 10-27-87, Cl. 156-244.250.

Rusler, George W. *See*—
Graf, Carl P.; Fairchild, Kim M.; Fant, Karl M.; Rusler, George W.; and Schroeder, Michael O., 4,645,459, Cl. 434-43.000.

Rusnak, Mark A. Wiper element and holder. 4,700,425, 10-20-87, Cl. 15-250.410.

Rusnica, Edward J. *See*—
Blaushild, Ronald M.; and Rusnica, Edward J., 4,664,679, Cl. 376-352.000.
Ezekoye, I. Ike; Rusnica, Edward J.; and Sepp, Henry A., Jr., 4,716,005, Cl. 376-205.000.

Rusnock, Kevin R., to Adolph Coors Company. Carton blank with perforated tear line. 4,634,007, 1-6-87, Cl. 206-620.000.

Rusnock, Kevin R., to Adolph Coors Company. Carton carrying handle. 4,684,059, 8-4-87, Cl. 229-52.0CB.

Russ Bassett Company. *See*—
Baillie, William R.; Macias, Jorge; and Dressendorfer, Michael, 4,715,669, Cl. 312-12.000.

Russ, David E., to Sundstrand Corporation. Motion transmitting and timing mechanism. 4,641,544, 2-10-87, Cl. 74-435.000.

Russ, Geri A. *See*—
Jurrius, Eran J. P.; Russ, Geri A.; and Russ, Travis A., 4,643,791, Cl. 156-251.000.

Russ, Peter J., III. Grinding wheel with balancing ring. 4,683,681, 8-4-87, Cl. 51-169.000.

Russ, Roger A.; and Hennen, John J., to Deere & Company. Forage harvester blower. 4,696,432, 9-29-87, Cl. 241-101.700.

Russ, Travis A. *See*—
Jurrius, Eran J. P.; Russ, Geri A.; and Russ, Travis A., 4,643,791, Cl. 156-251.000.

Russak, Steffen P., to Sulzer Brothers Limited. Pressure medium operated servomotor arrangement. 4,700,935, 10-20-87, Cl. 251-73.000.

Russe, Meinhard W.; Boive, Rudolf; and Koch, Friedhelm, to Degussa Aktiengesellschaft. Material for improving the fertility of mammals and process for its production. 4,696,934, 9-29-87, Cl. 514-19.000.

Russel, Matthew J., to Eastman Kodak Company. Sheet turnover mechanism. 4,699,367, 10-13-87, Cl. 271-65.000.

Russell, Alan, to Procter & Gamble Company, The. Quick setting anionic bituminous emulsions. 4,657,595, 4-14-87, Cl. 106-277.000.

Russell, Alexander, to Sacol Powerline Limited. Displacement measurement devices. 4,644,355, 2-17-87, Cl. 340-870.360.

Russell, Anthony W. *See*—
Russell, Michael K.; and Russell, Anthony W., 4,636,995, Cl. 367-85.000.
Russell, Michael K.; and Russell, Anthony W., 4,675,852, Cl. 367-84.000.

Russell, Brian M., to International Computers Limited. Data packet transmission using shared channel. 4,641,307, 2-3-87, Cl. 370-60.000.

Russell, Burdsall & Ward Corporation. *See*—
Pamer, W. Richard; and Zils, James A., 4,708,556, Cl. 411-179.000.
Pamer, Walter R.; Zils, James A.; and Nichols, William E., 4,647,264, Cl. 411-338.000.
Russell, Carl D. Intermittent vehicular braking apparatus and method. 4,708,403, 11-24-87, Cl. 303-61.000.
Russell Corporation. *See*—
Adamson, Fletcher D.; and Caldwell, James M., 4,633,604, Cl. 38-2.000.
Adamson, Fletcher D.; and Caldwell, James M., 4,693,460, Cl. 271-10.000.
Russell, Dale. Muzzle loading firearm, and methods of constructing and utilizing same. 4,669,211, 6-2-87, Cl. 42-51.000.
Russell, David B.; Gitlitz, Melvin H.; Leiner, Howard H.; Khuddus, Mo A.; and Berger, Abe, to M&T Chemicals Inc. Erodible ship-bottom paints for control of marine fouling. 4,687,792, 8-18-87, Cl. 523-177.000.
Russell, David B., to Dennison Manufacturing Company. Method and apparatus for dispensing fasteners. 4,712,677, 12-15-87, Cl. 206-345.000.
Russell, Derek V., to Alphacrete Construction Linings (UK) Limited. Reinforcing material. 4,647,515, 3-3-87, Cl. 428-703.000.
Russell, Derek V., to Alphacrete Linings Limited. Reinforcing member. 4,658,561, 4-21-87, Cl. 52-662.000.
Russell, Don L. *See*—
Mayer, William J., 4,673,212, Cl. 297-195.000.
Russell, Donald J.; and Sanders, Michael A., to Healthdyne, Inc. Patient monitor for providing respiration and electrocardiogram signals. 4,713,558, 12-15-87, Cl. 307-264.000.
Russell, Donna J. *See*—
Mayer, William J., 4,673,212, Cl. 297-195.000.
Russell, Earl. Means for refrigeration speed control. 4,646,534, 3-3-87, Cl. 62-228.400.
Russell, Edward J. *See*—
Karklin, Roland; Arends, Albert W.; Erokoff, Terrance L.; Russell, Edward J.; and Gremer, James R., 4,676,938, Cl. 264-46.500.
Russell, Frederick E., to Protectaire Systems Co. Method and apparatus for handling sludge. 4,713,181, 12-15-87, Cl. 210-776.000.
Russell, George W.; and Underwood, Larry B. Linear electric motor for downhole use. 4,687,054, 8-18-87, Cl. 166-66.400.
Russell, Glen D. *See*—
Oh, Young S.; Dahlgren, Richard M.; and Russell, Glen D., 4,704,272, Cl. 424-70.000.
Russell, James P.; Faull, Ralph G.; and Buchar, Wayne A., to Xerox Corporation. Automatic setup apparatus for an electrophotographic printing machine. 4,647,184, 3-3-87, Cl. 355-14.00C.
Russell, James P. *See*—
Buchar, Wayne A.; and Russell, James P., 4,684,237, Cl. 355-8.000.
Russell, Jeffrey A.; and Patel, Bharat B., to Phillips Petroleum Company. Drilling fluid. 4,704,214, 11-3-87, Cl. 252-8.514.
Russell, Jerry A. Extension apparatus for damper control shaft. 4,646,715, 3-3-87, Cl. 126-292.000.
Russell, John L., Jr.; and Noonan, Denise J., to Theragenics Corporation. Apparatus for neutron-capture tumor therapy. 4,675,150, 6-23-87, Cl. 376-340.000.
Russell, John L., Jr.; and Coggins, David N., to Theragenics Corporation. X-ray-emitting interstitial implants. 4,702,228, 10-27-87, Cl. 128-1.200.
Russell, John P. *See*—
Goodman, Alvin M.; Goodman, Lawrence A.; Russell, John P.; and Robinson, Paul H., 4,684,413, Cl. 437-17.000.
Wheatley, Carl F., Jr.; Neilson, John M. S.; and Russell, John P., 4,639,754, Cl. 357-23.400.
Russell, John W. *See*—
Caserza, David D.; and Russell, John W., 4,686,886, Cl. 89-11.000.
Russell, Larry A. *See*—
Bowers, Thomas E.; Frey, Alan E.; Kerr, Howard A.; Russell, Larry A.; and Stone, Roger E., 4,704,716, Cl. 370-58.000.
Russell, Larry R. Pressure-controlled accumulator charging valve system for oil field downhole tools. 4,676,306, 6-30-87, Cl. 166-319.000.
Russell, Larry R. Method and apparatus for operating multiple tools in a well. 4,683,956, 8-4-87, Cl. 166-383.000.
Russell, Lionel V. F., to W. Vinten Limited. Equipment mounting mechanism. 4,696,596, 9-29-87, Cl. 403-321.000.
Russell, Michael J., to Geotech Engineering. Seismic air gun. 4,713,800, 12-15-87, Cl. 367-144.000.
Russell, Michael K.; and Russell, Anthony W., to NL Sperry-Sun, Inc. Mud pressure control system. 4,636,995, 1-13-87, Cl. 367-85.000.
Russell, Michael K. Direction-finding devices. 4,667,414, 5-26-87, Cl. 33-364.000.
Russell, Michael K.; and Russell, Anthony W., to NL Industries, Inc. Apparatus for signalling within a borehole while drilling. 4,675,852, 6-23-87, Cl. 367-84.000.
Russell, Michael K.; Wesenberg, Donald L.; and Leaney, Peter A., to NL Industries, Inc. Assemblies for supporting electrical circuit boards within tubes and method of using same. 4,694,555, 9-22-87, Cl. 29-451.000.
Russell, Michael K.; and Arlott, Colin, to NL Industries, Inc. Downhole devices for imparting rotary motion. 4,714,403, 12-22-87, Cl. 415-107.000.
Russell, Oliver J. Transmission. 4,665,762, 5-19-87, Cl. 74-63.000.
Russell, Peter J. *See*—
Rodland, Karin D.; and Russell, Peter J., 4,647,529, Cl. 435-6.000.
Russell, Philip B. *See*—
Matsumoto, Yutaka; Mitra, Cesar; Russell, Philip B.; and van Ark, William B., 4,710,618, Cl. 250-203.00R.
Russell, Randy; Salata, Wayne F.; and Stephens, Dennis L., to Zenith Electronics Corporation. Electronically switchable power source. 4,665,323, 5-12-87, Cl. 307-75.000.
Russell, Ray E., Jr.; and Hayworth, Robert G., to Vega Precision Laboratories, Inc. Encoding apparatus and method for a position coded pulse communication system. 4,668,950, 5-26-87, Cl. 340-825.650.
Russell, Ray L. *See*—
Lewis, D. Michael; Wolf, David L.; and Russell, Ray L., 4,671,046, Cl. 53-488.000.
Russell, Robert A.; Moore, Trevor J.; and Schafer, Timothy V., to General Motors Corporation. Piston and bearing assemblies. 4,644,853, 2-24-87, Cl. 92-190.000.
Russell, Robert C.; and Keeler, David J. Forceps having replaceable tips. 4,634,165, 1-6-87, Cl. 294-99.200.
Russell, Robert J., to Dow Chemical Company, The. Physically-modified styrene polymer/thermoplastic elastomer polyblends. 4,659,776, 4-21-87, Cl. 525-95.000.
Russell, Robert J., to Honeywell Information Systems Inc. Method for making testable electronic assemblies. 4,711,024, 12-8-87, Cl. 29-832.000.
Russell, Robert L. Rotary engine. 4,653,438, 3-31-87, Cl. 123-44.000.
Russell, Ronald K. *See*—
Press, Jeffery B.; and Russell, Ronald K., 4,670,560, Cl. 544-278.000.
Press, Jeffery B.; and Russell, Ronald K., 4,797,550, Cl. 544-379.000.
Russell, Ronald R. *See*—
Morris, Robert A.; Raiotte, Paul T.; Russell, Ronald R.; and Kiesel, George W., 4,641,217, Cl. 361-45.000.
Russell, Stephen W. *See*—
Humphreys, Robert W.; Walker, Adrian W.; Green, Robin J.; and Russell, Stephen W., 4,642,198, Cl. 252-94.000.
Russell, Ted W., to Cortronic Corporation. Apparatus and method for continuous non-invasive cardiovascular monitoring. 4,669,485, 6-2-87, Cl. 128-679.000.
Russell, Thomas D.; and Walker, Robert R., to Babcock & Wilcox Company, The. Control system for variable pressure once-through boilers. 4,665,706, 5-19-87, Cl. 60-646.000.
Russell, V. Lee. Multiple use drain cleaning apparatus. 4,700,422, 10-20-87, Cl. 15-104.3SN.
Russell, Virginia. Protecting personnel and the environment from radioactive emissions by controlling such emissions and safely disposing of their energy. 4,663,115, 5-5-87, Cl. 376-320.000.
Russell, William F.; and Bryce, William W., to Terra Marine Engineering, Inc. Real time seismic telemetry system. 4,683,744, 5-5-87, Cl. 367-76.000.
Russell, William H. *See*—
Crawford, Thomas A.; and Russell, William H., 4,655,650, Cl. 408-225.000.
Russell, William K. *See*—
Mayer, James L.; and Russell, William K., 4,666,682, Cl. 422-266.000.
Russell William, Ltd. *See*—
Winter, Russell K.; Harvey, Thomas D.; and Savas, Nedim, 4,646,923, Cl. 211-189.000.
Winter, Russell K.; Harvey, Thomas D.; Savas, Nedim; and Kan, Richard S., 4,650,261, Cl. 312-140.000.
Russev, Koytcho Y. *See*—
Gaydarov, Emanuil S.; Russev, Koytcho Y.; Paltchin, Vassil A.; and Stoilov, Ivan T., 4,698,462, Cl. 191-59.100.
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Aubert, James H.; Clough, Roger L.; Curro, John G.; Quintana, Carlos A.; Russick, Edward M.; and Shaw, Montgomery T., 4,673,695, Cl. 521-64.000.
Russin, Leonid P. Oscillator reciprocation control system for piston motor. 4,679,490, 7-14-87, Cl. 91-189.00R.
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Levine, Michael R.; Russo, James T.; and Rigotti, Victor H., 4,669,654, Cl. 236-46.00R.
Levine, Michael R.; Russo, James T.; Cairo, Anthony C.; and Rigotti, Victor H., 4,695,942, Cl. 364-188.000.
Russo, Libby J. Brushing cyanoacrylates: packaging and method. 4,687,827, 8-18-87, Cl. 427-340.000.
Russo, Manuel A.; and Richards, William, to Millipore Corporation. Compound valve. 4,655,095, 4-7-87, Cl. 73-864.830.
Russo, Onofrio N., to Gas Energy, Inc. Automatically locking valve. 4,709,720, 12-1-87, Cl. 137-385.000.
Russo, Peter. Self tapping stud. 4,673,323, 6-16-87, Cl. 411-387.000.
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Russo, Rudolph P. Anti-theft exhaust system for vehicles. 4,690,240, 9-1-87, Cl. 180-287.000.
Russo, Vera; Sottini, Stefano; Righini, Giancarlo; and Trigari, Silvana, to Consiglio Nazionale Delle Ricerche. Method and apparatus for constructing microlens ends for optical fibers. 4,678,268, 7-7-87, Cl. 350-96.180.
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Targa, Giorgio; and Russo, Vitaliano, 4,640,087, Cl. 57-58.360.

Russo, Vito W.: *See*—
Oman, Price W.; Rinaldi, Mark A.; Russo, Vito W.; and Salyer, Gregory, 4,635,186, Cl. 364-200.000.

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Beech, Brian; Rust, Jeff; Meilach, Alan; and LeVasseur, Rod, 4,701,600, Cl. 235-375.000.

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Sorbies, Per H.; Helgaker, Iver A.; Halvorsen, Magne; and Rustad, Jan H., 4,676,525, Cl. 280-824.000.

Rustad, Mark A.: *See*—
Scherrer, Robert A.; and Rustad, Mark A., 4,716,178, Cl. 514-563.000.

Rustad, Stanley C.: *See*—
Zimmermann, Craig E.; Rustad, Stanley C.; and Gordon, Loren J., 4,662,411, Cl. 141-66.000.

Rustant, Robert: *See*—
Cronenberger, Michel; Lateltin, Paul; and Rustant, Robert, 4,702,835, Cl. 210-321.720.

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Gehring, Kenneth C.; and Rustebakke, Ralph K., 4,665,712, Cl. 62-325.000.

Rusterholz, John T.: *See*—
Danilenko, Michael; Rusterholz, John T.; and Lahti, Archie E., 4,691,279, Cl. 364-200.000.
Hamstra, James R.; Koehler, Howard A.; Rusterholz, John T.; and Tanglin, David J., 4,706,191, Cl. 364-200.000.

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Caldwell, James M.; Lubitz, Michael R.; and Ruston, Eric J., 4,666,765, Cl. 428-266.000.

Ruston, Robert B., Sr. Variable speed fillet knife. 4,711,030, 12-8-87, Cl. 30-272.00A.

Rusu, Radu, to Textron/Avco Corp. Turboprop overspeed protection system. 4,711,615, 12-8-87, Cl. 416-46.000.

Rusz, Tibor. Pulmonary ventilator controller. 4,637,385, 1-20-87, Cl. 128-204.210.

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Rut, Tadeusz, to Instytut Obrobki Plastycznej. Apparatus for forging of crankshafts in presses. 4,646,551, 3-3-87, Cl. 72-305.000.

Ruta, Joseph W., to S&C Electric Company. Trip signal generator for a circuit interrupter. 4,642,724, 2-10-87, Cl. 61-96.000.

Rutan, Elbert L. Tandem or multi-winged high performance aircraft. 4,641,800, 2-10-87, Cl. 244-218.000.

Ruterbusch, Paul H., to General Electric Company. Containment shield for a replaceable xenon lamp and reflector module. 4,706,171, 11-10-87, Cl. 362-254.000.

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Chien, Yie W.; and Tojo, Kakuji, 4,690,683, Cl. 604-896.000.
Shifriss, Oved, 4,656,319, Cl. 800-1.000.

Rutgersson, Goran. Stopping arrangement for long drawing elements. 4,670,948, 6-9-87, Cl. 24-136.00R.

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Gardziella, Arno; Kwasniok, Alois; Heerdegen, Harald; and Jancha, Gerhard, 4,634,723, Cl. 523-144.000.
Jellinek, Karl; Muller, Rolf; and Wisomirski, Gerhard, 4,650,825, Cl. 524-596.000.
Jellinek, Karl; Muller, Rolf; and Wisomirski, Gerhard, 4,663,418, Cl. 528-140.000.
Jellinek, Karl; Meier, Bert; and Grundke, Ulrich, 4,701,478, Cl. 522-97.000.
Maurer, Manfred; Orth, Winifried; and Fickert, Werner, 4,659,830, Cl. 546-6.000.
Maurer, Manfred; Orth, Winfried; and Fickert, Werner, 4,659,846, Cl. 549-464.000.

Ruth, Bruce M. Weight lifting bench with adjustable bench sections. 4,641,837, 2-10-87, Cl. 272-123.000.

Ruth, Dale G.; and Yuhas, Robert J. Wire tensioning system. 4,695,677, 9-22-87, Cl. 194-45.0TD.

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Ruth, Marta R.: *See*—
Tracy, C. Edwin; Benson, David K.; and Ruth, Marta R., 4,645,308, Cl. 350-357.000.
Tracy, C. Edwin; Benson, David K.; and Ruth, Marta R., 4,687,560, Cl. 204-164.000.

Ruth, Michael A.: *See*—
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Ruth, Paul M. Convertible skate. 4,657,265, 4-14-87, Cl. 280-7.130.

Rutherford, David G.; Helling, Bernd; Shearn, David M.; and Shalev, David, to Associated Press, The. Laser printing facsimile receiver. 4,661,861, 4-28-87, Cl. 358-302.000.

Rutherford, David G.; Regnault, Alain; and Kirlick, John, to Associated Press, The. Method for compression and transmission of video information. 4,679,094, 7-7-87, Cl. 358-261.000.

Rutherford, William; and Tinson, David J., to Fioris Pty Ltd. Screening system. 4,661,245, 4-28-87, Cl. 209-399.000.

Ruthrof, Klaus; Korner, Rudolf; and Dorner, Jurgen, to Kraftwerk Union Aktiengesellschaft. Concentric three-conductor cable. 4,642,417, 2-10-87, Cl. 174-36.000.

Ruthrof, Klaus; Holzler, Georg; and Korner, Rudolf, to Kraftwerk Union Aktiengesellschaft. Ultrasonic testing device. 4,656,870, 4-14-87, Cl. 73-629.000.

Ruti-Te Strake B.V.: *See*—
Manders, Petrus G. J., 4,643,233, Cl. 139-435.000.

Rutkiewic, Andrew F.; and Strolle, Clifford H., to Du Pont de Nemours, E. I., and Company. Coating composition of polyester oligomer and acrylic binder. 4,681,815, 7-21-87, Cl. 428-458.000.

Rutkowski, Edward J., to National Gypsum Company. Furniture channel. 4,651,484, 3-24-87, Cl. 52-241.000.

Rutland Plastics Limited: *See*—
Hall, Trevor J.; and Beechey, Robert E., 4,643,057, Cl. 82-36.00R.

Rutledge, Broaddus L., II: *See*—
Homonoff, Edward C.; Rodman, Clarke A.; and Rutledge, Broaddus L., II, 4,686,136, Cl. 428-286.000.

Rutledge, David L.: *See*—
Brannigan, Michael J.; and Rutledge, David L., 4,639,896, Cl. 365-200.000.

Rutledge, Gerald D., to Conoco Inc. Catalyzed flue gas desulfurization. 4,649,034, 3-10-87, Cl. 423-244.000.

Rutledge, Raleigh N.: *See*—
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Rutsch, Hubert; Golay, Gilbert; and Muhlemann, Daniele. Massage device with pinching action. 4,633,858, 1-6-87, Cl. 128-59.000.

Rutsch, Werner: *See*—
Berner, Godwin; and Rutsch, Werner, 4,699,949, Cl. 525-162.000.
Kirchmayr, Rudolf; and Rutsch, Werner, 4,636,575, Cl. 558-58.000.
Kirchmayr, Rudolf; and Rutsch, Werner, 4,708,926, Cl. 430-306.000.

Rutschi, Wilhelm; and Wagner, Gerd-Eberhard, to Wagner, Gerd-Eberhard. Rappelling arrangement. 4,662,475, 5-5-87, Cl. 182-5.000.

Rutschle, Eugen; and Winkler, Hans-Henning, to Chiron-Werke GmbH. Machine tool with a headstock. 4,642,875, 2-17-87, Cl. 29-568.000.

Rutschle, Eugen: *See*—
Winkler, Hans-Henning; and Rutschle, Eugen, 4,683,638, Cl. 29-568.000.

Rutschmann, Erwin, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Air intake system of a multicylinder internal combustion engine. 4,641,610, 2-10-87, Cl. 123-52.0MV.

Rutschmann, Erwin; Tran-Van, Khanh; and Wagner, Joachim, to Dr.Ing.h.c.F. Porsche Aktiengesellschaft. Multiple cylinder internal combustion engine with exhaust turbochargers. 4,709,552, 12-1-87, Cl. 60-600.000.

Rutt, Brian K., to Imatron, Inc. Three dimensional scanned projection radiography using high speed computed tomographic scanning systems. 4,672,649, 6-9-87, Cl. 378-10.000.

Rutt, Kenneth S.: *See*—
Strong, Russell W.; and Rutt, Kenneth S., 4,712,568, Cl. 130-272.000.

Rutt, Thomas E., to Aardvark Audio Inc. Nonlinear distortion synthesizer using over-threshold power-function feedback. 4,710,727, 12-1-87, Cl. 330-110.000.

Rutter, Christopher C.; and Thomsen, Peter N. Double shut-off fluid dispenser element. 4,700,744, 10-20-87, Cl. 137-614.040.

Rutter, Roger S.: *See*—
Dick, Carroll J.; Linsker, Ralph; Rutter, Roger S.; and Thomas, David L., 4,689,441, Cl. 174-68.500.

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Rutterschmidt, Franz: *See*—
Bauer, Karl-Heinz; Rutterschmidt, Franz; and Spiller, Gerhard, 4,660,019, Cl. 338-179.000.
Reuss, Oswald; and Rutterschmidt, Franz, 4,701,740, Cl. 338-164.000.

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Gcke, Juergen; and Rutzen, Horst, 4,678,605, Cl. 252-547.000.

Ruud, Alan J.; and Wandler, Donald, to Ruud Lighting. Floodlight, 4,689,729, 8-25-87, Cl. 362-375.000.

Ruud, Clayton O. Method for determining internal stresses in polycrystalline solids. 4,686,631, 8-11-87, Cl. 364-508.000.

Ruud Lighting, Inc.: *See*—
Ruud, Alan J.; and Wandler, Donald, 4,689,729, Cl. 362-375.000.

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Heinisch, Richard V.; and Lewis, Ian, 4,709,312, Cl. 362-298.000.

Ruumpol, Geurt J., to Inductive Control Systems B.V. Contactless electric control-handle. 4,642,595, 2-10-87, Cl. 336-135.000.

Ruuskanen, Pekka; and Kettunen, Pentti. Non-destructive method of measuring the fatigue limit of ferromagnetic materials by use of the mechanical Barkhauser phenomenon. 4,689,558, 8-25-87, Cl. 324-209.000.

Ruxley Holdings Ltd.: *See*—
Loveridge, Ronald, 4,710,023, Cl. 356-124.000.

Ruyle, Phillip I. Manure vacuum wagon power assist auger. 4,661,046, 4-28-87, Cl. 417-203.000.

Ruynon, James R.: *See*—
Danner, Bernard; and Ruynon, James R., 4,696,962, Cl. 524-140.000.

Ruys, Hendrik J. *See*—
Lapeyre, George C.; Greve, Christopher G.; and Ruys, Hendrik J., 4,715,093, Cl. 17-71.000.

Ruyten, Henricus M., to U.S. Philips Corporation. Three position switch and switching device for a magnetic-tape-cassette apparatus. 4,656,321, 4-7-87, Cl. 200-50.00C.

Ruyten, Henricus M.: *See*—
Deutsch, Armin; and Ruyten, Henricus M., 4,636,889, Cl. 360-96.200.
Deutsch, Armin; and Ruyten, Henricus M., 4,649,446, Cl. 360-105.000.

Ruyter, Herman P.; and Annee, Johannes H. J., to Shell Oil Company. Process for producing hydrocarbon-containing liquids from biomass. 4,670,613, 6-2-87, Cl. 585-240.000.

Ruzek, Ivo: *See*—
Hartmann, Ludwig; and Ruzek, Ivo, 4,714,651, Cl. 428-286.000.

Ruzicka, Dennis E.: *See*—
Hardy, Richard; Neumann, Frank D.; and Ruzicka, Dennis E., 4,697,764, Cl. 244-137.400.

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Franklin, Randall M., 4,715,499, Cl. 206-373.000.

RXS Schrumpftechnik-Garnituren GmbH: *See*—
Winterhoff, Hans, 4,714,280, Cl. 285-381.000.

Ryabenko, Boris Z.: *See*—
Bragin, Boris F.; Iljushin, Alexei F.; Kolosov, Vladimir V.; Kulikov, Mikhail A.; Markuntovich, Felix D.; Ryabenko, Boris Z.; and Ekber, Boris Y., 4,671,487, Cl. 251-84.000.

Ryabikov, Stanislav V.: *See*—
Afian, Viktor V.; Vartanian, Albert V.; Martirosian, Ruben G.; Strebkov, Dmitry S.; and Ryabikov, Stanislav V., 4,682,841, Cl. 350-3.700.
Afian, Viktor V.; Vartanian, Albert V.; Martirosian, Ruben G.; Ryabikov, Stanislav V.; Strebkov, Dmitry S.; and Tveryanovich, Eduard V., 4,691,994, Cl. 350-320.000.

Ryaboy, Mikhail Y.: *See*—
Mody, Dinesh I.; Rasmussen, James E.; and Ryaboy, Mikhail Y., 4,640,821, Cl. 422-81.000.

Ryall, Ronald W. Apparatus for circulating water. 4,707,308, 11-17-87, Cl. 261-77.000.

Ryan, Adrian J.: *See*—
Wruck, Paul D.; and Ryan, Adrian J., 4,702,421, Cl. 241-15.000.

Ryan, Allen: *See*—
Kolomayets, George; Ryan, Allen; Nieto, Augustine; and Andrus, Bryan, 4,714,244, Cl. 272-72.000.
Pasierb, John J., Jr.; Nieto, Augustine; Andrus, Bryan; Kolomayets, George; Oglesby, Gary; and Ryan, Allen, 4,674,741, Cl. 272-72.000.

Ryan, Carl R., to Motorola, Inc. Signal probe. 4,646,005, 2-24-87, Cl. 324-123.00R.

Ryan, Carl R., to Motorola, Inc. Serial minimum shift-keyed modem. 4,656,646, 4-7-87, Cl. 375-47.000.

Ryan, Charles P.; and Guenthner, Russell W., to Honeywell Bull Inc. Prioritized secondary use of a cache with simultaneous access. 4,707,784, 11-17-87, Cl. 364-200.000.

Ryan, Charles T., to International Business Machines Corporation. Method and structure for effecting engineering changes in a multiple device module package. 4,652,974, 3-24-87, Cl. 361-395.000.

Ryan, Charles W.; and Slomski, Bruce A., to Eli Lilly and Company. 3-sulfonylamino-4-amino phenyl acyl derivatives. 4,645,861, 2-24-87, Cl. 564-99.000.

Ryan, Daniel M.: *See*—
Fluegel, Theodore D.; and Ryan, Daniel M., 4,713,982, Cl. 74-686.000.

Ryan, Dennis M., to Anigex Corporation. Fast deploying tape transport. 4,652,946, 3-24-87, Cl. 360-85.000.

Ryan, Douglas G.; and Ackerman, Steven, to Exxon Research and Engineering Company. Removing haze from hydrocarbon oil mixture boiling in the lubricating oil range. 4,702,817, 10-27-87, Cl. 208-28.000.

Ryan, Edward J., to United Technologies Corporation. Multiple foil transient liquid phase bonding. 4,700,881, 10-20-87, Cl. 228-194.000.

Ryan, Frederick M.; and Nelson, Robert L., to Westinghouse Electric Corp. Automated acousto-optic infra-red analyzer system for monitoring stack emissions. 4,652,756, 3-24-87, Cl. 250-343.000.

Ryan, Frederick M.; Gottlieb, Milton; and Feldman, Donald W., to Westinghouse Electric Corp. Acousto-optic tunable filter with two acoustic channels. 4,705,362, 11-10-87, Cl. 350-372.000.

Ryan, Frederick M.: *See*—
Nelson, Robert L.; and Ryan, Frederick M., 4,663,961, Cl. 73-24.000.

Ryan, Harold; Miller, Scott G.; and Schafer, John B., to Tektite Corporation. Testing wiring harnesses. 4,689,551, 8-25-87, Cl. 324-51.000.

Ryan, Hillary A. Veterinary-sauce prophylactic. 4,702,914, 10-27-87, Cl. 424-195.100.

Ryan, Jack L.; Bray, Lane A.; and Boldt, Allyn L., to Exxon Research and Engineering Company. Dissolution of PuO_2 or NpO_2 using electrolytically regenerated reagents. 4,686,019, 8-11-87, Cl. 204-1.500.

Ryan, James M.; and Alie, Enrique, to Falcon Jet Corporation. Double airplane seats. 4,674,713, 6-23-87, Cl. 244-122.00R.

Ryan, James M.; Golden, Sanford S.; and Sliker, Larry, to Henry Dreyfuss Associates; and Golden Associates. Reclining chair. 4,678,229, 7-7-87, Cl. 297-68.000.

Ryan, James M.; and Gilmore, Arthur H., to Falcon Jet Corporation. Auxiliary airplane seats. 4,679,749, 7-14-87, Cl. 244-122.00R.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,690,936, 9-1-87, Cl. 514-362.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,690,937, 9-1-87, Cl. 514-362.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,690,938, 9-1-87, Cl. 514-362.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,690,939, 9-1-87, Cl. 514-362.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,690,940, 9-1-87, Cl. 514-362.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,692,437, 9-8-87, Cl. 514-165.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,692,458, 9-8-87, Cl. 514-362.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,692,459, 9-15-87, Cl. 514-362.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,695,577, 9-22-87, Cl. 514-362.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Inhibitors of angiotensin converting enzyme. 4,695,582, 9-22-87, Cl. 514-423.000.

Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,698,355, 10-6-87, Cl. 514-362.000.

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Ryan, James W.; and Chung, Alfred, to University of Miami. Antihypertensive agents. 4,707,490, 11-17-87, Cl. 514-423.000.

Ryan, John L. High capacity shear fastener. 4,696,423, 9-29-87, Cl. 227-55.000.

Ryan, John M.: *See*—
Horowitz, Carl; Ryan, John M.; Sanduja, Mohan L.; Sugathan, Kenneth K.; and Thottathil, Paulose P., 4,683,007, Cl. 106-308.00M.

Ryan, John O., to Macrovision. Method and apparatus for removing pseudo-sync and/or agc pulses from a video signal. 4,695,901, 9-22-87, Cl. 380-5.000.

Ryan, Kelly P., to Ryco Enterprises Incorporated. Agricultural feed bagger. 4,688,480, 8-25-87, Cl. 100-444.000.

Ryan, Kenneth J.: *See*—
Acton, Edward M.; Ryan, Kenneth J.; and Tracy, Michael, 4,705,850, Cl. 536-1.100.

Ryan, Lawrence W. Automatic camera actuating apparatus for an archery bow. 4,643,159, 2-17-87, Cl. 124-24.00R.

Ryan, Lenore S.: *See*—
Romans-Hess, Alice Y.; Guenther, Frederick M.; and Ryan, Lenore S., 4,655,759, Cl. 604-385.00R.

Ryan, Leslie D., to Procter & Gamble Company, The. Oral compositions. 4,663,154, 5-5-87, Cl. 424-54.000.

Ryan, Michael C. Device for dispensing a pet food from a sealed can container therefor. 4,706,849, 11-17-87, Cl. 222-80.000.

Ryan, Michael K. Farrier's tool. 4,696,346, 9-29-87, Cl. 168-45.000.

Ryan, Patrick, to Alpha Mail Systems. Postal tray. 4,643,306, 2-17-87, Cl. 206-425.000.

Ryan, Patrick B.: *See*—
Dodds, Ralph G.; and Ryan, Patrick B., 4,700,877, Cl. 228-2.000.
Luc, Penelope J. V.; and Ryan, Patrick B., 4,668,581, Cl. 428-620.000.

Ryan, Peter C.: *See*—
Purzycki, Kenneth L.; Ryan, Peter C.; and Leardi, Anthony J., 4,666,671, Cl. 422-5.000.

Ryan, Richard E.: *See*—
Huang, Min N.; Brethorst, David L.; and Ryan, Richard E., 4,665,812, Cl. 99-535.000.

Ryan, Thomas G., to Cyclops Corporation. Universal deck. 4,697,396, 10-6-87, Cl. 52-303.000.

Ryan, Thomas G.: *See*—
Hartman, Thomas W.; and Ryan, Thomas G., 4,682,456, Cl. 52-221.000.

Ryan, Timothy G., to Imperial Chemical Industries Plc. Polymer compositions containing magnetically susceptible filler. 4,708,975, 11-24-87, Cl. 523-300.000.

Ryan, William E.: *See*—
Marino, Dean F.; Ryan, William E.; and Kamp, Arthur J., 4,638,168, Cl. 250-560.000.

Ryan, William P.: *See*—
Helmich, Melvin J.; Ryan, William P.; and Marvin, David R., 4,708,094, Cl. 123-27.0GE.

Ryason, P. R.: *See*—
Devries, Louis; and Ryason, P. R., 4,704,488, Cl. 585-415.000.
Devries, Louis; and Ryason, P. R., 4,704,493, Cl. 585-415.000.
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Ryason, Porter R.: *See*—
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Ryback, Donald J.: *See*—
Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Onystok, Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dworsky, Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., 4,639,631, Cl. 310-344.000.

Rybakova, Nina A., administratrix: *See*—
Shishov, Nikolai M.; Zelenetsky, Vladimir E.; Demina, Nadezhda A.; Bondarev, Ivan M.; Cherny, Alexandr N.; Avxentiev, Anatoly G.; and Rylov, Evgeny E., deceased, 4,645,487, Cl. 604-58.000.

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Bowditch, W. Raymond; and Rybalka, Borys, 4,644,018, Cl. 521-130.000.
Edenbaum, Martin I.; and Rybalka, Borys, 4,655,210, Cl. 128-156.000.
Edenbaum, Martin I.; and Rybalka, Borys, 4,675,232, Cl. 428-317.300.

Ryberg, Nils A.: *See*—
Dahlen, Gustav L.; and Ryberg, Nils A., 4,660,331, Cl. 52-73.000.

Rybicki, Mathew A., to Motorola, Inc. One hundred percent duty cycle sample-and-hold circuit. 4,691,125, 9-1-87, Cl. 307-353.000.

Rybka, John J.; and Pegnam, Robert C., to NORPAC Engineering, Inc. Self-contained aerial maintenance platform. 4,676,339, 6-30-87, Cl. 182-2.000.

Rychiger, Peter: *See*—
Hambleton, Thomas P.; Guevara, Erick; and Rychiger, Peter, 4,680,917, Cl. 53-440.000.

Ryckman, William D.; and Gordon, Walter H., to Black & Decker, Inc. Electric toaster oven control. 4,684,788, 8-4-87, Cl. 219-413.000.

Ryco Enterprises Incorporated: *See*—
Ryan, Kelly P., 4,688,480, Cl. 100-144.000.

Ryco Graphic Manufacturing, Inc.: *See*—
Switall, Thomas G., 4,643,124, Cl. 118-259.000.
Switall, Thomas G.; Schaefges, Michael; and Goetzelman, Alan, 4,649,818, Cl. 101-147.000.

Rycroft, Alan K., to Becton, Dickinson and Company. Syringe barrel and hypodermic needle assembly. 4,639,250, 1-27-87, Cl. 604-201.000.

Rydefalk, Staffan; and Einarsson, Jens, to Svenska Traforskningsinstitutet. Device for separately measuring particles in a suspension. 4,689,988, 9-1-87, Cl. 73-61.00R.

Rydell, Mark A.: *See*—
Packard, Brian M.; Perins, David J.; and Rydell, Mark A., 4,646,742, Cl. 128-344.000.

Ryder, Francis E.; and Rabenau, Richard, to Ryder International Corporation. Lens disinfecting appliance with improved venting feature. 4,637,919, 1-20-87, Cl. 422-300.000.

Ryder, Francis E., to Ryder International Corporation. Headband electrode system. 4,638,807, 1-27-87, Cl. 128-644.000.

Ryder, Francis E.; and Ryder, Larry T., to Ryder International Corporation. Incubator optical system for viewing sterilization indicator. 4,657,870, 4-14-87, Cl. 435-311.000.

Ryder, Francis E.; and Kanner, Rowland W., to Ryder International Corporation. Plug-in contact lens disinfector with bimetallic timer. 4,659,911, 4-21-87, Cl. 219-521.000.

Ryder, Francis E.; and Lisak, Stephen P., to Ryder Internation Corporation; and Textron Inc., a part interest. Headlamp adjusting mechanism. 4,674,018, 6-16-87, Cl. 362-424.000.

Ryder, Francis E.; and Lisak, Stephen P., to Ryder International Corporation; and Textron, Inc., a part interest. Clam shell gear box housing and retainer. 4,713,739, 12-15-87, Cl. 362-424.000.

Ryder, Geoffrey A., to Beecham Group p.l.c. Container having a hooked-shaped member slidably attached thereto. 4,678,102, 7-7-87, Cl. 222-181.000.

Ryder Internation Corporation: *See*—
Ryder, Francis E.; and Lisak, Stephen P., 4,674,018, Cl. 362-424.000.

Ryder International Corporation: *See*—
Kanner, Rowland W., 4,653,519, Cl. 134-140.000.
Ryder, Francis E.; and Rabenau, Richard, 4,637,919, Cl. 422-300.000.
Ryder, Francis E., 4,638,807, Cl. 128-644.000.
Ryder, Francis E.; and Ryder, Larry T., 4,657,870, Cl. 435-311.000.
Ryder, Francis E.; and Kanner, Rowland W., 4,659,911, Cl. 219-521.000.
Ryder, Francis E.; and Lisak, Stephen P., 4,713,739, Cl. 362-424.000.

Ryder, John C.: *See*—
Potts, Gerald R.; and Ryder, John C., 4,691,564, Cl. 73-146.000.

Ryder, Larry T.: *See*—
Ryder, Francis E.; and Ryder, Larry T., 4,657,870, Cl. 435-311.000.

Ryder, Steven W.; Shand, David G.; and Mullane, John F., to American Home Products Corporation. Tolrestat as anti-hypertensive agent. 4,701,467, 10-20-87, Cl. 514-524.000.

Ryder, Steven W.; Shand, David G.; and Mullane, John F., to American Home Products Corporation. Tolrestat for inhibition of weight gain. 4,716,177, 12-29-87, Cl. 514-524.000.

Ryding, Geoffrey: *See*—
Armstrong, Allen E.; Benveniste, Victor M.; and Ryding, Geoffrey, 4,672,210, Cl. 250-492.200.

Rydmann, Theo, to C.F. Spiess & Sohn Kunststoffwerk GmbH & Co. Apparatus for manufacturing hollow bodies from thermoplastic synthetic resinous materials. 4,657,502, 4-14-87, Cl. 425-526.000.

Rydz, Leon. Chain turbine system. 4,642,022, 2-10-87, Cl. 415-5.000.

Rydzicki, Gregory J. Brush extension handle. 4,715,080, 12-29-87, Cl. 15-146.000.

Rye, Grover W.: *See*—
Brandyberry, Dennis R.; and Rye, Grover W., 4,650,531, Cl. 156-166.000.

Rye, Kjell, to Hoiness & Hoiness A/S. Rod anchored to a tubular sleeve body. 4,663,498, 5-5-87, Cl. 174-189.000.

Rye, Palle, to Brentwood Industries, Inc. Contact bodies. 4,668,443, 5-26-87, Cl. 261-112.000.

Ryer, Jack: *See*—
Gutierrez, Antonio; Brois, Stanley J.; Ryer, Jack; and Deen, Harold E., 4,664,826, Cl. 252-482.000.
Gutierrez, Antonio; Brois, Stanley J.; Ryer, Jack; and Deen, Harold E., 4,702,850, Cl. 252-48.200.

Ryeson Corporation: *See*—
Blattner, Raymond J., 4,655,104, Cl. 81-483.000.

Ryglicki, Roman: *See*—
Grochal, Tadeusz; Ryglicki, Roman; and Wierzchowski, Wojciech, 4,696,337, Cl. 164-150.000.

Rykaczewski, Stanley. Sliver retriever. 4,633,563, 1-6-87, Cl. 29-270.000.

Ryko Manufacturing Company: *See*—
Nelson, James A., 4,685,169, Cl. 15-302.000.

Rylatt, John A., to Westinghouse Electric Corp. Nuclear fuel rod support grid with improved multiple dimple arrangement. 4,659,541, 4-21-87, Cl. 376-442.000.

Rylatt, John A., to Westinghouse Electric Corp. Grid cell spring force measurement apparatus and method. 4,668,456, 5-26-87, Cl. 376-245.000.

Rylatt, John A., to Westinghouse Electric Corp. Debris-retaining trap for a fuel assembly. 4,678,627, 7-7-87, Cl. 376-313.000.

Rylatt, John A., to Westinghouse Electric Corp. Nozzle seal retaining assembly and positioning assembly therefor. 4,684,491, 8-4-87, Cl. 376-203.000.

Rylatt, John A.: *See*—
Klug, Ralph W.; Toler, Charles E.; and Rylatt, John A., 4,702,878, Cl. 376-249.000.

Rylicki, Edward J., to Industrial Electric Heating, Inc. Method and apparatus for the induction heat treatment of irregularly shaped workpieces. 4,701,584, 10-20-87, Cl. 219-10.570.

Ryll, Jurgen H.; and Ullrich, Rainer W., to AMP Incorporated. Connector having rotatable insert for retaining terminals. 4,698,030, 10-6-87, Cl. 439-752.000.

Rylov, Evgeny E., deceased: *See*—
Shishov, Nikolai M.; Zelenetsky, Vladimir E.; Demina, Nadezhda A.; Bondarev, Ivan M.; Cherny, Alexandr N.; Avxentiev, Anatoly G.; and Rylov, Evgeny E., deceased, 4,645,487, Cl. 604-58.000.

Rymas, Frank, to GTE Products Corporation. Printer wire. 4,650,353, 3-17-87, Cl. 400-124.000.

Rymas, Frank, to GTE Products Corporation. Printer wire. 4,671,685, 6-9-87, Cl. 400-124.000.

Rympalski, William P.; Herstein, James S.; and Ritenour, Roger L., to Harris Corporation. Electronic sketch pad. 4,639,720, 1-27-87, Cl. 340-712.000.

Rynk, Anthony J.; and DeCarlo, David J., to Thomas & Betts Corporation. Method and apparatus for wiring system installation. 4,637,136, 1-20-87, Cl. 29-872.000.

Ryntz, Rose A.; and Kurple, Kenneth R., to Du Pont de Nemours, E. I., and Company. Polysiloxane graft copolymers, flexible coating compositions comprising same and branched polysiloxane macromers for preparing same. 4,673,718, 6-16-87, Cl. 525-476.000.

Ryo, U. Yun. Safety bottle and cap for the administration of liquid radioactive iodine. 4,715,359, 12-29-87, Cl. 128-1.100.

Ryobi American Corporation: *See*—
Holahan, Joseph M.; and Holahan, J. Myles, 4,714,208, Cl. 242-84.52B.

Ryobi Ltd.: *See*—
Aoki, Atsuhito, 4,697,760, Cl. 242-220.000.
Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Noboru, 4,715,146, Cl. 49-1.000.
Domoto, Hideki; and Kimura, Takashi, 4,671,176, Cl. 101-177.000.
Emura, Masaharu; Uetsuki, Haruo; Aoki, Atsuhito; and Kobayashi, Takehiro, 4,708,303, Cl. 242-218.000.
Ishii, Koji; and Okuda, Yukito, 4,676,158, Cl. 101-218.000.
Ishii, Koji; and Okuda, Yukito, 4,691,631, Cl. 101-218.000.
Ishii, Koji, 4,702,470, Cl. 271-229.000.
Katagiri, Fujio; Atsumi, Haruyuki; Anzai, Hisatugu; and Kasahara, Noboru, 4,656,690, Cl. 16-48.500.
Maruyama, Kenji; and Kobayashi, Takehiro, 4,705,228, Cl. 242-84.20G.
Murakami, Hideo; and Kobayashi, Takehiro, 4,640,471, Cl. 242-84.530.
Murakami, Hideo, 4,709,874, Cl. 242-220.000.
Nakai, Shinichi, 4,636,704, Cl. 320-35.000.
Uetsuki, Haruo; Kobayashi, Takehiro; and Yamane, Hiroto, 4,710,689, Cl. 318-630.000.

Ryoco Seiki Co., Ltd.: *See*—
Shimomura, Hiroshi; Iizuka, Kazuo; Harano, Makoto; and Hamada, Akifumi, 4,714,383, Cl. 407-42.000.

Ryohei, Yamamoto; Shigeki, Kimura; and Akira, Matsuura, to Amano Pharmaceutical Co., Ltd. Process for accelerating antigen-antibody reaction. 4,692,330, 9-8-87, Cl. 424-85.000.

Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, to Fuji Photo Film

Co., Ltd. Magnetic recording medium. 4,649,072, 3-10-87, Cl. 428-212.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,686,139, 8-11-87, Cl. 428-323.000.
Ryoke, Katsumi; Takahashi, Masatoshi; Yoneyama, Takashi; Nishikawa, Yasuo; and Tadokoro, Eiichi, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,693,929, 9-15-87, Cl. 428-323.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,696,858, 9-29-87, Cl. 428-323.000.
Ryoke, Katsumi: *See—*
Yamaguchi, Nobutaka; Iida, Shinobu; Nasu, Norio; Ryoke, Katsumi; Okutu, Toshimitu; and Masuyama, Kenichi, 4,647,501, Cl. 428-323.000.
Ryono, Denis E.; and Petrillo, Edward W., Jr., to E. R. Squibb & Sons, Inc. Amino acid ester renin inhibitors. 4,665,193, 5-12-87, Cl. 548-344.000.
Rypacek, Frantisek: *See—*
Drobnik, Jaroslav; Noskova, Dagmar; Rypacek, Frantisek; Metalova, Marie; and Saudek, Vladimir, 4,659,849, Cl. 556-137.000.
Rypkema, Jouke N.: *See—*
Kelly, Gordon E.; Krishnamurthy, Gopalan; and Rypkema, Jouke N., 4,649,420, Cl. 358-38.000.
Ryschka, Martin: *See—*
Altner, Ulrich; Falb, Wolfgang; Ryschka, Martin; and Wallroth, Carl-Friedrich, 4,715,370, Cl. 128-204.130.
Falb, Wolfgang; Ryschka, Martin; and Wallroth, Carl-Friedrich, 4,693,853, Cl. 261-39.100.
Ryser, Gottlieb: *See—*
Bollag, Werner; Ruegg, Rudolf; and Ryser, Gottlieb, 4,656,310, Cl. 568-9.000.
Ryser, Hugues J.; and Shen, Wei-Chiang, to Boston University, The Trustees of. Method of effecting cellular uptake of molecules. 4,701,521, 10-20-87, Cl. 530-322.000.
Ryssel, Siegfried: *See—*
Dolata, Hans; Fink, Reinhold; Itzrodt, Gerd; Kelbert, Adam; Ryssel, Siegfried; Wehle, Anton; Wieland, Dieter; and Zerrer, Gerhard, 4,644,658, Cl. 30-381.000.
Rytand, David H. Floating dock. 4,709,647, 12-1-87, Cl. 114-267.000.
Ryu, Hoe K., to Woo Kyong Industrial Co., Ltd. Positioning joint for folding ladders. 4,666,328, 5-19-87, Cl. 403-92.000.
Ryu, Kazuo, to NEC Corporation. Successive approximation analog-to-digital converter. 4,647,903, 3-3-87, Cl. 340-347.0AD.
Ryu, Kazuo, to NEC Corporation. Digital to analog converter. 4,667,178, 5-19-87, Cl. 340-347.0DA.
Ryu, Nobuyuki, to Toyota Jidosha Kabushiki Kaisha. Seatbelt assembly. 4,635,964, 1-13-87, Cl. 280-804.000.
Ryu, Seung M.: *See—*
Un, Chong K.; Ryu, Seung M.; and Lee, Chong R., 4,701,905, Cl. 370-18.000.
Ryu, Toshihiko, to NEC Corporation. Diversity system of selection type equipped with a code correction/switch circuit for receiving a PSK or QAM wave carrying differentially encoded signal. 4,663,768, 5-5-87, Cl. 375-100.000.
Ryu, Toshihiko: *See—*
Tahara, Masato; Matsuura, Tooru; and Ryu, Toshihiko, 4,688,235, Cl. 375-102.000.
Uchibori, Junichi; Koizumi, Yutaka; and Ryu, Toshihiko, 4,675,619, Cl. 332-31.00R.
Ryugo, Mitsunobu: *See—*
Onishi, Hikaru; Sato, Ichiro; Ryugo, Mitsunobu; and Fukumori, Norio, 4,649,610, Cl. 29-26.00A.
Ryuno, Koitchiro: *See—*
Yamada, Hideaki; Ryuno, Koitchiro; Enomoto, Kanehiko; and Watanabe, Ichiro, 4,661,456, Cl. 435-244.000.
Ryuzono, Akira: *See—*
Kumakura, Koichi; Ryuzono, Akira; and Hosokawa, Yoshinori, 4,692,935, Cl. 378-49.000.
Ryynanen, Seppo I., to Nobar Ky. Method of and apparatus for sequentially separating a medium into different components. 4,702,846, 10-27-87, Cl. 210-788.000.
Ryzin, Joseph V.; Andres, Jose M.; Jensen, Dale; and Ruggieri, Robert, to Aquanautics Corporation. Gill for extracting oxygen from oxygen bearing fluids. 4,662,904, 5-5-87, Cl. 55-158.000.
Ryzner, Clemens, to Paul Maschinenfabrik GmbH & Co. KG. Piston guide for hollow piston of a radial piston engine. 4,683,806, 8-4-87, Cl. 92-66.000.
Rzad, Stefan J.; and Tong, David W., to General Electric Company. Method for corona discharge enhanced flue gas clean-up. 4,650,555, 3-17-87. Cl. 204-174.000.
Rzad, Stefan J.: *See—*
Devins, John C.; Dranchak, Matthew A.; and Rzad, Stefan J., 4,694,375, Cl. 361-212.000.
Rzeszewski, Theodore S., to American Telephone and Telegraph Company; and AT&T Bell Laboratories. Processing of analog video signals in digital transmission systems. 4,672,427, 6-9-87, Cl. 358-13.000.
Rzeszewski, Theodore S.: *See—*
LoCicero, Joseph L.; Pazarci, Melih; and Rzeszewski, Theodore S., 4,641,179, Cl. 358-12.000.
LoCicero, Joseph L.; Pazarci, Melih; and Rzeszewski, Theodore S., 4,694,328, Cl. 358-21.00V.
Rzeszotarski, Waclaw J.; Gibson, Raymond E.; Eckelman, William C.; and Reba, Richard C., to Research Corporation. 3-quinuclidinol esters, useful as antagonists of muscarinic acetylcholine receptors. 4,644,003, 2-17-87, Cl. 514-304.000.
Rzeszotarski, Waclaw J.; Hudkins, Robert L.; and Guzewska, Maria E., to Nova Pharmaceutical Corporation. Antagonists of specific excitatory amino acid neurotransmitter receptors. 4,657,899, 4-14-87, Cl. 514-120.000.
R2 Corporation: *See—*
Heath, Roger L., 4,653,503, Cl. 128-640.000.
S.A.E.S. Getters S.p.A.: *See—*
Ferrario, Bruno; Martelli, Daniele; and Boffito, Claudio, 4,665,343, Cl. 313-553.000.
S.A.M.M.-Societe d'Applications des Machines Motrices: *See—*
Geiger, Jean-Francois, 4,673,852, Cl. 318-341.000.
Joseph, Philippe, 4,700,969, Cl. 280-705.000.
Joseph, Philippe, 4,700,970, Cl. 280-705.000.
S. A. Panmedica: *See—*
Laruelle, Claude; Lepant, Marcel; and Raynier, Bernard, 4,661,512, Cl. 514-423.000.
S.A.R.L. "Chicoree Leroux": *See—*
Leroux, Alain A. A., 4,671,962, Cl. 426-51.000.
S. A. Texaco Belgium N.V.: *See—*
Darden, Jerome W.; Triebel, Carol A.; Van Neste, Walter A.; and Maes, Jean P., 4,647,392, Cl. 252-75.000.
S. Bigagli & C. SpA: *See—*
Meroni, Roberto; Lant, Danny; Lancerotto, Fabio; and Gerin, Umberto, 4,651,515, Cl. 57-261.000.
Meroni, Roberto; Lant, Danny; Lancerotto, Fabio; and Gerin, Umberto, 4,682,466, Cl. 57-274.000.
S.c.a.i.m.e.: *See—*
Mairot, Guy, 4,694,922, Cl. 177-178.000.
S&C Electric Company: *See—*
Biller, Bruce A., 4,687,277, Cl. 439-621.000.
Chabala, Leonard V.; and Roman, Christopher D., 4,654,489, Cl. 200-48.00R.
Chabala, Leonard V.; Haarsma, John; O'Leary, Raymond P.; Roman, Christopher D.; and Tobin, Thomas J., 4,690,780, Cl. 252-572.000.
Hall, Walter J.; Lin, Chester H.; Ramos, Joel A.; and Rogers, Edward J., 4,636,602, Cl. 200-153.0SC.
Kowalyshen, Henry W.; Opfer, John C.; and Stranczek, Norman J., 4,668,848, Cl. 200-248.000.
O'Leary, Raymond P., 4,695,918, Cl. 361-58.000.
Opfer, John C., 4,683,357, Cl. 200-153.0SC.
Ramos, Joel A.; Rogers, Edward J.; and Tobin, Thomas J., 4,677,262, Cl. 200-48.00A.
Rogers, Edward J., 4,669,589, Cl. 192-14.000.
Ruta, Joseph W., 4,642,724, Cl. 361-96.000.
Swanson, Roy T., 4,691,085, Cl. 200-151.000.
Swanson, Roy T., 4,692,577, Cl. 200-151.000.
Swanson, Roy T.; Chabala, Leonard V.; and Jackson, Hiram S., 4,692,734, Cl. 337-162.000.
S. C. Johnson & Son, Inc.: *See—*
Anderson, John J., 4,711,378, Cl. 222-499.000.
Brady, William T.; Norton, Scott J.; and Ko, Jinrea, 4,691,052, Cl. 562-506.000.
Coyle, E. Michael; Reichley, Fred J.; Verbrugge, Calvin J.; and Villarreal, John G., 4,680,202, Cl. 427-389.900.
Crapser, James R.; and Malek, Edward J., 4,679,713, Cl. 222-402.130.
Crapser, James R.; and Demarest, Scott W., 4,690,312, Cl. 222-402.170.
Dahlby, Larry C., 4,676,380, Cl. 209-616.000.
Erdman, Constance E.; and Padden, Timothy J., 4,716,037, Cl. 424-70.000.
Grothaus, Roger H.; and Hildebrandt, Donald W., 4,689,915, Cl. 43-112.000.
Grothaus, Roger H.; and Hildebrandt, Donald W., 4,696,126, Cl. 43-112.000.
Gutkowski, Ronald R.; and Martens, Edward J., 4,660,763, Cl. 239-43.000.
Harris, Robert B., 4,640,713, Cl. 106-3.000.
Hernandez, Paul M.; and Petersen, Curtis R., 4,636,326, Cl. 252-77.000.
Kandathil, Thomas V., 4,711,739, Cl. 252-139.000.
Malek, Edward J., 4,703,875, Cl. 222-386.500.
Schulz, Gerald O.; and Gueldenzopf, Thomas D., 4,654,395, Cl. 526-318.420.
Suhajda, John L., 4,675,504, Cl. 219-272.000.
Suhajda, John L., 4,703,155, Cl. 219-271.000.
Tait, W. Stephen, 4,668,293, Cl. 106-14.120.
Tomkins, David A.; Tait, William S.; and Duda, Donald J., 4,668,507, Cl. 424-45.000.
S-Cal Research Corp.: *See—*
Gondouin, Michel, 4,706,751, Cl. 166-272.000.
S.E.L.O. Societa Elettronica Lombarda S.p.A.: *See—*
Terra, Luigi; Sada, Edoardo; and Colombo, Sergio, 4,649,277, Cl. 250-363.00S.
S.E.M.T., S.A.: *See—*
Ayoul, Philippe, 4,662,319, Cl. 123-41.350.
Baguena, Michel, 4,700,672, Cl. 123-299.000.
S. Eisenberg & Co.: *See—*
Lake, Connie, 4,657,173, Cl. 229-2.5EC.
S.F.E.N.A., S.A.: *See—*
Bonfils, Georges L. A., 4,685,338, Cl. 73-862.620.

Franzen Sohre (GmbH & Co.): *See—*
Dueringer, Rudi, 4,644,767, Cl. 70-312.000.
Dueringer, Rudi, 4,679,833, Cl. 292-113.000.
Duringer, Rudi H., 4,651,545, Cl. 70-312.000.
Franzen Sohre GmbH & Co. KG: *See—*
Werner, Hans U., 4,682,483, Cl. 70-312.000.
G Implants GmbH: *See—*
Grundei, Hans, 4,648,842, Cl. 433-175.000.
Grundei, Hans, 4,714,471, Cl. 623-20.000.
Grundei, Hans; and Aigner, Reinhard, 4,714,475, Cl. 623-20.000.
H Computer Systems, Inc.: *See—*
Sherrod, Philip H., 4,642,756, Cl. 364-200.000.
Himmelstein and Company: *See—*
Himmelstein, Sydney; and Tveter, Richard S., 4,651,573, Cl. 73-862.360.
Tveter, Richard S.; and Miller, Wayne A., 4,715,214, Cl. 73-49.200.
I.A.T. Societa Internazionale Applicazioni Techniche S.p.A.: *See—*
Lissoni, Adelio, 4,633,642, Cl. 53-137.000.
I.A.T. Societa Internazionale Applicazioni Tecniche S.p.A.: *See—*
Lissoni, Adelio, 4,658,563, Cl. 53-137.000.
I.C.A. Serrande, Infissi Carpenteria Attrezzatura S.p.A.: *See—*
Savioli, Leopoldo, 4,653,364, Cl. 83-37.000.
I.E., Inc.: *See—*
Anderson, Richard V.; and Carnes, Wendall D., 4,696,343, Cl. 166-164.000.
Kalb, Gerald F.; and Brown, David M., 4,679,669, Cl. 188-375.000.
Ondrik, Michael A., 4,712,007, Cl. 250-270.000.
Ishizaka, President of Agency of Industrial Science and Technology: *See—*
Isogai, Nobuo; Hosokawa, Motoyuki; Okawa, Takashi; Wakui, Natsuko; and Watanabe, Toshiyasu, 4,650,911, Cl. 568-902.000.
J Electro Systems, Inc.: *See—*
Johnston, Stephen P., 4,652,802, Cl. 318-482.000.
J.K. Products, Inc.: *See—*
Pease, Eugene D., 4,667,892, Cl. 242-106.000.
Kajima Corporation: *See—*
Hiroshima, Toshio; Tamura, Mamoru; and Sakaizumi, Mikio, 4,676,693, Cl. 405-50.000.
L Maskin AB: *See—*
Stenmark, Dag, 4,669,930, Cl. 408-140.000.
M.S. Incorporated: *See—*
Solitt, Samuel G.; Light, Nathan R.; and Shaw, Jerry, 4,669,729, Cl. 273-138.00A.
M. Cannon Pty. Ltd.: *See—*
Cannon, Stuart R.; Brazenor, William J.; Kneen, Peter W.; and Mullen, John L., 4,677,999, Cl. 135-117.000.
M.S. Industries, Inc.: *See—*
Davis, Richard E., 4,644,652, Cl. 30-252.000.
N.E.C.M.A.: *See—*
Guibert, Alain J. E.; Mestre, Roland R.; and Ritt, Remy P. C., 4,679,981, Cl. 415-116.000.
N.R. Roulements: *See—*
Guers, Roger, 4,688,951, Cl. 384-446.000.
O.S. Dies, Inc.: *See—*
Ratz, Kevin D., 4,665,779, Cl. 76-107.00R.
P Manufacturing Corporation, The: *See—*
Hall, William E.; Gailey, Edward D.; and Ovanin, George J., 4,685,687, Cl. 279-119.000.
R. Gent plc: *See—*
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T. Dupont: *See—*
Ainoz, Jean-Philippe, 4,639,214, Cl. 431-344.000.
Celanes, Jean E., 4,706,341, Cl. 24-11.00R.
Royer, Michel, 4,666,401, Cl. 431-344.000.
T. Research Corporation: *See—*
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T Development Ltd.: *See—*
Sokol, Edward F., 4,689,604, Cl. 340-755.000.
V. Engine Co. Pty. Ltd.: *See—*
Cureton, George K.; Scalzo, Joseph; and White, Gary J., 4,685,439, Cl. 74-60.000.
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VO.SA. S.r.l.: *See—*
Fossati, Antonio, 4,662,541, Cl. 222-135.000.
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Poncelet, Andre ; Getti, Hyacinthe; and Faugouin, Michel, 4,714,626, Cl. 427-49.000.
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Edvardsson, Kurt O., 4,641,139, Cl. 342-124.000.
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Nordstrom, Lennart, 4,688,444, Cl. 74-471.00R.
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Saalasti, Timo T. Woodroom effluent treatment system. 4,673,013, 6-16-87, Cl. 144-341.000.
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Turner, Gerhard, 4,708,774, Cl. 202-239.000.
Saarem, Myrl J.; and Lovelace, Donald E., to Richdel Div. of Garden America Corp. Pop-up gear driven sprinkler head. 4,650,118, 3-17-87, Cl. 239-206.000.
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Frode, Per E., 4,693,535, Cl. 439-277.000.
Nilsson, Bo; and Severinsson, Lars M., 4,635,762, Cl. 188-203.000.

Sab Nife Inc.: *See*—
Vu, Viet; and Hettwer, Paul F., 4,649,093, Cl. 429-229.000.

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Sabate, Modeste; and Masse, Joel. Particular method for treating articles made of cork. 4,693,757, 9-15-87, Cl. 134-27.000.

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Morby, John A.; Sabatella, Robert J.; and Shuttleworth, George L., 4,667,269, Cl. 361-355.000.
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Rich, Joseph F.; Sabatella, Robert J.; and Shuttleworth, George L., 4,646,198, Cl. 361-346.000.

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Sabatie, Michele; and Maree, Michel, to Aerospatiale, Societe Nationale Industrielle. Castings and their production process. 4,669,523, 6-2-87, Cl. 164-97.000.

Sabatini, Bruno, to Centro Sperimentale Metallurgico S.p.A. Device for cooling hot-rolled flat products. 4,645,185, 2-24-87, Cl. 266-114.000.

Sabatino, Daniel, to Flowtron Industries, Inc. Air eliminator for fluid handling systems. 4,708,157, 11-24-87, Cl. 137-179.000.

Sabatino, Raymond A., to Westinghouse Electric Corp. Tube support for moisture separator reheater. 4,685,511, 8-11-87, Cl. 165-82.000.

Sabatino, Raymond A.: *See*—
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Sabatiuk, Andrew. Gas turbine engines employing fixed volume combustion. 4,693,075, 9-15-87, Cl. 60-39.390.

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Sabek, Vaclav: *See*—
Gabriel, Karel; Smolik, Frantisek; Steif, Eduard; and Sabek, Vaclav, 4,652,785, Cl. 310-325.000.

Sabel, Herbert J. Machine for loading and closing a shipping case with a telescopic lid. 4,674,261, 6-23-87, Cl. 53-242.000.

Sabelus, Gunther: *See*—
Kempter, Fritz E.; Petersen, Harro; Schupp, Eberhard; Sabelus, Gunther; and Schmidt, Horst, 4,647,604, Cl. 523-402.000.

Sabet, Iraj, to Stella Werke AG. Apparatus for producing coated panels. 4,712,765, 12-15-87, Cl. 249-91.000.

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Sabins, Fred L.; Sutton, David L.; and Johnson, Johnny W., to Halliburton Company. Positive stirring consistometer cup and method of using the same. 4,653,313, 3-31-87, Cl. 73-61.400.

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Childs, Jerry D.; Sutton, David L.; and Sabins, Freddie L., 4,676,832, Cl. 106-90.000.

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Vinson, John W.; Kwong, Pamela C.; and Sabla, Paul E., 4,653,278, Cl. 60-737.000.

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Sable, Claude, to Marine & Petroleum Equipment Mape. Walking beam pumping unit. 4,671,126, 6-9-87, Cl. 74-41.000.

Sable, Daniel M.: *See*—
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Barton, James C.; Hefner, Robert E.; Reid, Paul A.; and Sable, Frank R., 4,694,928, Cl. 180-268.000.

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Ercilla, Jose A., 4,700,989, Cl. 297-331.000.

Sable, Steven: *See*—
Buck, Gerald F.; Roberts, John W.; and Sable, Steven, 4,689,204, Cl. 422-100.000.

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Dahbura, Anton T.; and Sabnani, Krishan K., 4,692,921, Cl. 371-27.000.

Sabo, Robert C. Method for providing a seal around a shaft and against a bearing housing. 4,635,944, 1-13-87, Cl. 277-1.000.

Sabol, George P.; McDonald, Samuel G.; and Nurminen, John I., to Westinghouse Electric Corp. High energy beam thermal processing of alpha zirconium alloys and the resulting articles. 4,648,912, 3-10-87, Cl. 148-11.50F.

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Sabol, George P.; and Barry, Robert F., to Westinghouse Electric Corp. Process for forming seamless tubing of zirconium or titanium alloys from welded precursors. 4,690,716, 9-1-87, Cl. 148-11.50F.

Sabol, George P.: *See*—
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Sabongi, Gebran J., to Minnesota Mining and Manufacturing Company. Photographic tanning developer formulation. 4,699,868, 10-13-87, Cl. 430-264.000.

Sabonnadiere, Jean-Claude: *See*—
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Sabot, Jean-Louis; and Rollat, Alain, to Rhone-Poulenc Specialites Chimiques. Separation of rare earth values by liquid/liquid extraction. 4,647,438, 3-3-87, Cl. 423-21.500.

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Luther, Hans-Werner; and Sabranski, Udo, 4,643,099, Cl. 102-517.000.

Sabroff, Alvin M.; Chambers, Samuel C.; and Ream, James C., to Eaton Corporation. Method for producing gears. 4,709,569, 12-1-87, Cl. 72-340.000.

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Saburi, Akio, to NEC Corporation. State information communication in a TDMA satellite communication network with high frame availability. 4,715,033, 12-22-87, Cl. 370-104.000.

Saburi, Masahiko: *See*—
Yoshikawa, Sadao; Saburi, Masahiko; Ikariya, Takao; Ishi, Yoshichi; and Akutagawa, Susumu, 4,691,037, Cl. 556-18.000.

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Blankenship, Gene E.; Gonsalves, Edward M.; Kawate, Kenji; Sacarisen, Stephen P.; Giolma, William H.; and Spanjol, D. A., 4,666,582, Cl. 204-404.000.
Chang, Ki S.; Patrick, Michael W.; Sacarisen, Stephen P.; and Stambaugh, Mark A., 4,646,232, Cl. 364-200.000.

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Sacconi, Luigi; Foa, Marco; Bencini, Elena; and Sabarino, Gia to Montedison S.p.A. Process for preparing polyphenyle 4,639,506, 1-27-87, Cl. 528-212.000.

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Mosconi, Pierbattista; and Dosmo, Renato, 4,644,1 361-119.000.
Muscaglione, Giuseppe; and Talpo, Gianpietro, 4,716, 200-148.00R.

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Sachs, Leonard W., to Minnesota Mining and Manufacturing Company. Presensitized diazo color-proofing sheet with particular sized pigments, 4,666,817, 5-19-87, Cl. 430-160.000.
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Sachs, Emanuel M. String stabilized ribbon growth, 4,661,200, 4-28-87, Cl. 156-616.00R.
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Taylor, Henry F.; Rashleigh, Scott C.; Weller, Joseph F.; and Nosu, Kiyoshi, 4,666,255, Cl. 350-371.000.
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Sachs, Isaac. Grounding strap, 4,664,469, 5-12-87, Cl. 339-251.000.
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Sackett, Robert L. Pool alarm system, 4,701,751, 10-20-87, Cl. 340-556.000.
Sackett, Robert R. Fluid flow and level detector, 4,694,161, 9-15-87, Cl. 250-231.00R.
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Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., 4,706,174, Cl. 363-9.000.
Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., 4,706,175, Cl. 363-9.000.
Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., 4,706,183, Cl. 363-157.000.
Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., 4,706,184, Cl. 363-157.000.
Sackinger, Clifton T. *See*—
Applegate, Lynn E.; and Sackinger, Clifton T., 4,675,109, Cl. 210-321.100.
Sackmann, Dieter. *See*—
Brecht, Gerhard; and Sackmann, Dieter, 4,682,822, Cl. 303-20.000.
Sackmann, Gunter; Mazanek, Jan; Oberkirch, Wolfgang; and Bartl, Herbert, to Bayer Aktiengesellschaft. Copolymers based on maleic anhydride and α, β-unsaturated compounds a process for their preparation and their use as paraffin inhibitors, 4,670,516, 6-2-87, Cl. 525-327.600.
Sackmann, Karl H.; and Anselment, Christoph, to Erwin Sick GmbH Optik-Elektronik. Resilient sectional strip for mounting to a closure edge, 4,684,768, 8-4-87, Cl. 200-61.430.
Sackner, Marvin A., to Respitrace Corporation. Method for detecting and differentiating central and obstructive apneas in newborns, 4,648,407, 3-10-87, Cl. 128-721.000.
Sackner, Marvin A., to Key Pharmaceuticals, Inc. Method and apparatus for intrapulmonary delivery of heparin, 4,679,555, 7-14-87, Cl. 128-203.150.
Sacks, Dieter; and Monch, Hans, to Interpat Limited. Apparatus for wringing the strands of mops, 4,663,798, 5-12-87, Cl. 15-261.000.
Sacks, Dieter; and Monch, Hans, to Interpat Limited. Wringer for mops and the like, 4,704,763, 11-10-87, Cl. 15-262.000.
Sacks, Martin B., to Sun Metal Products, Inc. Resin-augmentation of pin-assembly for extruded, anodized wheel rims, 4,702,528, 10-27-87, Cl. 301-99.000.
Sacks, Maurice J. *See*—
McCullough, Robert W.; Peoples, Clarence A.; Sacks, Maurice J.; Adams, Ronald L.; Kapfer, Klaus; and Talbott, Graham M., 4,663,103, Cl. 264-40.400.
Sacks, Rael. *See*—
Ruskin, Rodney; and Sacks, Rael, 4,702,787, Cl. 156-244.250.
Sacks, William. *See*—
Sibilia, John P.; Kotliar, Abraham M.; Murthy, Narasimhaiah S.; and Sacks, William, 4,696,857, Cl. 428-323.000.
Sacol Powerline Limited. *See*—
Russell, Alexander, 4,644,355, Cl. 340-870.360.
Sada, Edoardo. *See*—
Terra, Luigi; Sada, Edoardo; and Colombo, Sergio, 4,649,277, Cl. 250-363.00S.
Sada, Takeshi; Kato, Hidetoshi; Shibata, Hiroshi; Mori, Kazumasa; Mayumi, Nobuo; Sato, Hirohide; Akita, Yoshio; and Tanaka, Shigeru, to Nippondenso Co., Ltd. Battery voltage regulator for vehicles, 4,665,354, 5-12-87, Cl. 320-64.000.
Sadahiro, Toru; Taguchi, Masayuki; Tokiwa, Toru; and Terajima, Takeshi, to Amada Company, Limited. Band saw machine, 4,674,374, 6-23-87, Cl. 83-62.100.
Sadaka, Naoyuki. *See*—
Hayashi, Yasuyuki; Sadaka, Naoyuki; Murata, Shigeru; and Kawahara, Shuichi, 4,667,941, Cl. 267-64.160.
Sadakane, Koji. *See*—
Ohira, Tsunehisa; Hirano, Shinji; and Sadakane, Koji, 4,642,713, Cl. 360-85.000.
Sadakata, Nobuyuki; Ikeno, Yoshimitsu; Sugimoto, Masaru; and Kohno, Osamu, to Fujikura Ltd. Method of fabricating superconductive electrical conductor, 4,665,611, 5-19-87, Cl. 29-599.000.
Sadaki, Hiroshi; Imaizumi, Hiroyuki; Takeda, Kenji; Inaba, Takihiro; Takeno, Ryuko; Morita, Seishi; Kajita, Tetsuya; and Saikawa, Isamu, to Toyama Chemical Co., Ltd. Novel process for producing 2-(2-aminothiazol-4-yl)glyoxylic acid derivative or a salt thereof, and intermediates therefor and process for producing the intermediates, 4,667,040, 5-19-87, Cl. 548-195.000.
Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Konishi, Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Tai, Masaru; Watanabe, Yasuo; and Saikawa, Isamu, to Handi-Pac Inc. Novel intermediates of cephalosporins and process for producing 7-(substituted or unsubstituted amino)-3-substituted methyl-Δ^3-cephem-4-carboxylic acids, 4,673,738, 6-16-87, Cl. 540-222.000.
Sadamasa, Tetsuo. *See*—
Ichikawa, Osamu; and Sadamasa, Tetsuo, 4,647,927, Cl. 340-801.000.
Nakamura, Masaru; Okajima, Masaki; Komatsubara, Tadashi; Sadamasa, Tetsuo; and Nitta, Koichi, 4,706,101, Cl. 357-17.000.
Sadamitsu, Kazuo; and Makino, Yoshiyuki, to Furukawa Electric Co., Ltd. Flexible composite pipe for high-temperature fluids, 4,706,713, 11-17-87, Cl. 138-137.000.
Sadamitsu, Nishihara; and Yuji, Kawahara, to Mitutoyo Mfg. Co., Ltd. Optical measuring system, 4,648,718, 3-10-87, Cl. 356-387.000.
Sadamori, Yuuichi; and Maeda, Keini, to Mitsubishi Denki Kabushiki Kaisha. Sequencing data transmission process, 4,679,045, 7-7-87, Cl. 340-825.070.

Sadanori, Nishimura; and Satoru, Kudo, to Honda Giken Kogyo Kabushiki Kaisha. Inertia lock type synchronous clutch mechanism. 4,660,707, 4-28-87, Cl. 192-53.00F.

Sadao, Ando; and Satoshi, Saito, to Yamatake-Honeywell Co., Ltd. Switch mounting device. 4,705,241, 11-10-87, Cl. 248-27.300.

Sadao, Nagai: *See*—
Kaoru, Koide; and Sadao, Nagai, 4,715,814, Cl. 433-59.000.

Sadatani, Tetsuya: *See*—
Kobayashi, Waichi; Usui, Koji; Hirosawa, Kozo; and Sadatani, Tetsuya, 4,707,270, Cl. 210-683.000.

Sadatoshi, Hajime: *See*—
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,670,529, Cl. 526-348.100.
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,675,247, Cl. 428-349.000.

Sadek, Kadry: *See*—
Dahler, Peter; Neidhart, Peter; Sadek, Kadry; and Stemmler, Herbert, 4,639,846, Cl. 363-39.000.
Guth, Gerhard; Kuhn, Walter; Linhofer, Gerhard; and Sadek, Kadry, 4,689,733, Cl. 363-51.000.
Weibelzahl, Manfred; Wild, Georg; and Sadek, Kadry, 4,685,044, Cl. 363-51.000.

Sadelmu Cogepi S.p.A.: *See*—
Paris, Luigi, 4,646,505, Cl. 52-731.000.

Sadhir, Rajender K.: *See*—
Siemon, John T.; and Sadhir, Rajender K., 4,687,681, Cl. 427-40.000.

Sadhukhan, Pasupati: *See*—
Armstrong, Robert B.; Jongenburger, Huibert S.; and Sadhukhan, Pasupati, 4,648,999, Cl. 261-77.000.

Sadigh-Behzadi, Amir-Akbar, to Thomas & Betts Corporation. Electrical connecting device including socket therefor. 4,702,706, 10-27-87, Cl. 439-69.000.

Sadigh-Behzadi, Amir-Akbar, to Criton Technologies. High density, controlled impedance connectors. 4,705,332, 11-10-87, Cl. 439-69.000.

Sadilek, Albert C.: *See*—
Fischell, Robert E.; Sadilek, Albert C.; and Swift, William, 4,661,097, Cl. 604-123.000.

Sadjian, Harry. Optical recording device. 4,649,518, 3-10-87, Cl. 365-119.000.

Sadler, Bryon L.: *See*—
Moraski, Dennis P.; and Sadler, Bryon L., 4,645,904, Cl. 219-275.000.

Sadler, David R., to Joy Manufacturing Company. Valve actuator with auxiliary energy storage means. 4,651,970, 3-24-87, Cl. 251-63.600.

Sadler, Karl-Otto; Schmidt, Willy; and Franz, Hans-Joachim, to Blohm & Voss AG. Functional unit installation in a warship. 4,709,646, 12-1-87, Cl. 114-5.000.

Sadler, Karl-Otto: *See*—
Franz, Hans-Joachim; Sadler, Karl-Otto; and Schmidt, Willi, 4,658,747, Cl. 114-85.000.

Sadler, Leon Y., III, to University of Alabama, The. Process for producing low-viscosity coal-water and lignite-water mixtures and compositions produced thereby. 4,652,270, 3-24-87, Cl. 44-51.000.

Sadler, Thomas H., to Manville Corporation. Continuously variable transmission pulley. 4,692,128, 9-8-87, Cl. 474-8.000.

Sado, Ichiro, to Canon Kabushiki Kaisha. Input device. 4,696,048, 9-22-87, Cl. 382-13.000.

Sadow, Brian D. Auxiliary carrying case for luggage. 4,685,546, 8-11-87, Cl. 190-102.000.

Sadowski, Peter L., to Molecular Genetics, Inc. Use of monoclonal antibodies against bacterial adhesins. 4,652,448, 3-24-87, Cl. 424-87.000.

Sadowski, Sharon J.: *See*—
Miller, Douglas K.; Joshua, Henry; and Sadowski, Sharon J., 4,704,400, Cl. 514-454.000.

Sadre, Ahmad: *See*—
Chand, Sujeet; Amis, Jack B.; Cartwright, William; Sadre, Ahmad; and Kossey, Robert M., 4,663,726, Cl. 364-513.000.
Chand, Sujeet; and Sadre, Ahmad, 4,680,519, Cl. 318-568.000.

Sadre-Marandi, Ehsan; and Fox, Anthony G., to Beattie Systems, Inc. Mirror mounting and drive system for SLR cameras. 4,659,202, 4-21-87, Cl. 354-152.000.

Saeed, Abdul, to Black & Decker Inc. Method of assembling electric motors. 4,707,910, 11-24-87, Cl. 29-596.000.

Saeftel, Josef-Paul: *See*—
Kaufmann, Karl-Ernst; Saeftel, Josef-Paul; Bitsch, Harald; and Oldewurtel, Otto, 4,634,078, Cl. 242-158.00R.

Saegertown Manufacturing Corporation: *See*—
Jordan, Chalmer; Connor, Lee; and Lybarger, Robert, 4,682,381, Cl. 10-63.000.

Saegusa, Noboru: *See*—
Kawasaki, Ryoji; Yoshizawa, Kazuhiro; Yotsutani, Akio; Saegusa, Noboru; Ito, Koichi; and Huse, Syozi, 4,679,244, Cl. 455-54.000.
Yotsutani, Akio; Makino, Masayuki; Saegusa, Noboru; and Sone, Tomoshi, 4,640,986, Cl. 379-60.000.

Saegusa, Shigeru, to Usui Kokusai Sangyo Kabushiki Kaisha. Apparatus for automatically bending metallic tubes. 4,662,204, 5-5-87, Cl. 72-306.000.

Saegusa, Takashi, to Nippon Kogaku K. K. Photometric method and apparatus for cameras. 4,636,054, 1-13-87, Cl. 354-432.000.

Saegusa, Takashi: *See*—
Furuya, Mikihito; and Saegusa, Takashi, 4,688,922, Cl. 354-441.000.

Saegusa, Takeshi: *See*—
Suzuki, Toshio; Saegusa, Takeshi; Takasu, Toshimitsu; Nakayama, Yuji; and Yamaguchi, Yutaka, 4,665,957, Cl. 141-39.000.

Saegusa, Yasuyoshi, to Sumitomo Electric Industries, Ltd. Rotor for a rotary pump. 4,657,492, 4-14-87, Cl. 418-150.000.

Saegusa, Yasuyoshi, to Sumitomo Electric Industries, Ltd. Rotary pump device having an inner rotor with an epitrochoidal envelope tooth profile. 4,673,342, 6-16-87, Cl. 418-150.000.

Saeki, Hideki; and Kanematsu, Isao, to Yamazaki Machinery Works, Ltd. Tool*storing and feeding apparatus. 4,656,728, 4-14-87, Cl. 29-568.000.

Saeki, Hideki; and Kanematsu, Isao, to Yamazaki Machinery Works, Ltd. Tool storing apparatus. 4,658,493, 4-21-87, Cl. 29-568.000.

Saeki, Hiroshi: *See*—
Ueda, Shuji; Nakada, Kunio; Fujino, Kazuhiko; Saeki, Hiroshi; and Fujishiro, Kenji, 4,656,787, Cl. 51-50.00R.

Saeki, Kazumi: *See*—
Magami, Masato; Saeki, Kazumi; Miura, Takanori; and Inoue, Takeshi, 4,695,649, Cl. 560-86.000.

Saeki, Keiji: *See*—
Maeda, Yukio; Kudo, Shinichi; and Saeki, Keiji, 4,692,351, Cl. 427-196.000.

Saeki, Keiso: *See*—
Sano, Shojiro; and Saeki, Keiso, 4,689,644, Cl. 503-209.000.

Saeki, Kenji: *See*—
Taniguchi, Katsuo; Fujimoto, Tadaaki; and Saeki, Kenji, 4,675,307, Cl. 502-306.000.

Saeki, Kiyoshi; and Watanabe, Sadao, to Matsushita Electric Industrial Co., Ltd. Electrode assembly for display apparatus. 4,651,049, 3-17-87, Cl. 313-355.000.

Saeki, Masaru: *See*—
Tanaka, Kiyoshi; Koga, Yoshihiro; Saeki, Masaru; Kaneko, Tetsuya; and Kawakita, Tetsuya, 4,663,048, Cl. 210-638.000.
Tanaka, Kiyoshi; Saeki, Masaru; Matsushi, Tsutomu; Koga, Yoshihiro; and Kawakita, Tetsuya, 4,714,767, Cl. 548-344.000.
Toyoshi, Seiji; Yoshizumi, Tomoya; Saeki, Masaru; and Kawakita, Tetsuya, 4,711,722, Cl. 210-638.000.

Saeki, Osamu; Mori, Kenji; Onoda, Mamoru; Watanabe, Ryo; Shinohara, Katsufumi; Ashie, Takehiko; and Imanishi, Nobuyuki, to Kabushiki Kaisha Kobe Seiko Sho. Method for fluidized bed reduction of iron ore. 4,678,508, 7-7-87, Cl. 75-26.000.

Saeki, Shinji, to Seiko Instruments & Electronics Ltd. Coordinate reading device. 4,670,627, 6-2-87, Cl. 178-18.000.

Saeki, Tsuneo: *See*—
Kawasaki, Kazuhisa; Ujino, Yoshiyuki; Tsuji, Takahisa; and Saeki, Tsuneo, 4,656,763, Cl. 38-77.830.

Saeki, Yasuo: *See*—
Hayashi, Keijiro; Shinya, Kenzo; Saeki, Yasuo; and Asai, Shigeru, 4,697,820, Cl. 280-609.000.

Saeki, Yukio; Inoue, Naomitsu; and Tokunaga, Yukio, to Sumitomo Durez Company, Ltd. Manufacturing method for phenol resin foam. 4,694,028, 9-15-87, Cl. 521-110.000.

Saeki, Yukio; Inoue, Naomitsu; and Tokunaga, Yukio, to Sumitomo Durez Company, Ltd. Production of phenolic resin composite foam. 4,698,370, 10-6-87, Cl. 521-128.000.

Saele, Arvid H.: *See*—
Meier, Lynn A.; and Saele, Arvid H., 4,707,021, Cl. 296-196.000.

Saeli, John J.: *See*—
Brockway, Charles E.; and Saeli, John J., 4,684,344, Cl. 433-81.000.

Saenko, Vladimir Y.: *See*—
Paton, Boris E.; Medovar, Boris I.; Biletsky, Semen M.; Saenko, Vladimir Y.; Us, Vasiliy I.; Krendeleva, Alisa I.; Barvinko, Jur P.; Medovar, Lev B.; Pivovarsky, Nikolai B.; and Astafiev, Nikolai A., 4,711,387, Cl. 228-143.000.

Saenz, Jesus A.: *See*—
Kummer, David A.; Saenz, Jesus A.; and Trynosky, Stephen W., 4,706,079, Cl. 340-799.000.

Saenz, Raul C. Removable seat belt cover. 4,699,401, 10-13-87, Cl. 280-808.000.

Saeva, Grace A.: *See*—
Georgiev, Vassil S.; and Saeva, Grace A., 4,652,680, Cl. 564-255.000.

Saf-T-Green Manufacturing Corporation: *See*—
Werner, Richard H., 4,669,577, Cl. 182-113.000.

Safai, Bijan; Boyse, Edward A.; and Shen, Fung-Win, to Sloan-Kettering Institute. Monoclonal antibodies to skin cells. 4,649,115, 3-10-87, Cl. 435-240.000.

Safai, Saed: *See*—
Harrington, John H.; and Safai, Saed, 4,645,716, Cl. 428-472.00.

Safar, Vaclav; Lukes, Jindrich; and Pleskot, Ales, to Elitex, konc
textilniho strojirenstvi. Device for winding conical yarn packag 4,699,327, 10-13-87, Cl. 242-18.0DD.

Safarik, C. Robert: *See*—
Shepherd, Richard C.; and Safarik, C. Robert, 4,697,291, 8-151.000.

Safarik, William F., to Garrett Corporation, The. Ram air turb 4,692,093, 9-8-87, Cl. 416-1.000.

Safariland Ballistics, Inc.: *See*—
Sylvester, William, 4,697,285, Cl. 2-2.500.

Safariland Ltd., Inc.: *See*—
Rogers, William H., 4,694,980, Cl. 224-243.000.

Safe Bridge AB. *See*—
Gadde, Villy, 4,688,024, Cl. 340-550.000.

Safe Flight Instrument Corporation: *See*—
Greene, Leonard M., 4,686,923, Cl. 114-140.000.

Safe-N-Sound Pty. Limited: *See*—
Heath, Robert B.; and Nagel, Colin M., 4,681,368, Cl. 297-25

Safe-T-Jack: *See*—
Arzouman, Harry H., 4,641,813, Cl. 254-8.00B.

Safe-T-Jack, Inc.: *See*—
Arzouman, Harry H., 4,697,788, Cl. 254-8.00B.
Safe-Test, Inc.: *See*—
Alexander, William B., and Frenger, Paul, 4,642,783, Cl. 364-551.000.
Safegard Corporation, The: *See*—
Pendleton, Donald L., 4,654,016, Cl. 441-116.000.
Saferstein, Albert; and Spector, Gilbert: Nit comb and method of producing same, 4,671,303, 6-9-87, Cl. 132-11.00R.
Safetran Systems Corporation: *See*—
Snee, Ronald W., 4,703,303, Cl. 340-47.000.
Safety Container Corp.: *See*—
Black, Roger A., 4,653,643, Cl. 206-528.000.
Safety-Kleen Corporation: *See*—
Llewellyn, Michael; and Holden, Stephen, 4,637,413, Cl. 134-111.000.
Safety Solutions Co., Inc.: *See*—
Eydt, Christopher A., 4,686,423, Cl. 315-82.000.
Safety 1st, Inc.: *See*—
Lerner, Michael; Bernstein, Michael; and Selame, Robert, 4,671,587, Cl. 439-142.000.
Lerner, Michael; Bernstein, Michael; and Selame, Robert, 4,709,429, Cl. 4-661.000.
Safeway Products, Inc.: *See*—
Drapeau, Donald F.; Moore, Benjamin N.; and Hall, Henry B., 4,682,010, Cl. 219-381.000.
Saffa S.p.A.: *See*—
Albanesi, Giancarlo; and Rinaldi, Gianfranco, 4,698,215, Cl. 423-274.000.
Saffari, Akbar, to Honeywell Inc.: Electrical contact assembly with composite contact construction, 4,706,383, 11-17-87, Cl. 29-879.000.
Sattler, Edmund, to Siemens Aktiengesellschaft: X-ray diagnostics installation with rotatable support plate, 4,663,774, 5-5-87, Cl. 378-154.000.
Saffold, James A.; Green, Augustus H., Jr.; and Passmore, Ronald C., to United States of America, Army: Dual mode dichroic antenna/aperture, 4,636,797, 1-13-87, Cl. 343-725.000.
Saffold, James A.; Green, Augustus H., Jr.; and Passmore, Ronald C., to United States of America, Army: Dual mode antenna for millimeter wave and infrared radiation, 4,652,885, 3-24-87, Cl. 343-725.000.
Saffran, Murray; and Neckers, Douglas C., to Medical College of Ohio; and Bowling Green State University, a part interest: Method of use of polymers containing cross-linked azo bonds for releasing therapeutic agents into the lower gastrointestinal tract, 4,663,308, 5-5-87, Cl. 514-3.000.
Saffran, Richard E.: *See*—
Magee, Mark R.; and Saffran, Richard E., 4,661,936, Cl. 367-94.000.
Safi, Bechara F.; Rouleau, Denis; and Mayer, Raymond, to La Corporation de l'Ecole Polytechnique: Bioreactor, 4,654,308, 3-31-87, Cl. 435-310.000.
Safinco Coordination Center N.V.: *See*—
Dijkstra, Albert J.; and Van Opstal, Martin, 4,698,185, Cl. 260-403.000.
Safinya, Kambiz A., to Schlumberger Technology Corporation: Electromagnetic logging apparatus with button antennas for measuring the dielectric constant of formation surrounding a borehole, 4,652,829, 3-24-87, Cl. 324-338.000.
Safir, Aran: *See*—
Flom, Leonard; and Safir, Aran, 4,641,349, Cl. 382-2.000.
Safran, Frank: *See*—
Lemmers, Robert E.; Safran, Frank; and Brussee, Warren T., 4,641,966, Cl. 356-237.000.
Safranek Enterprises, Inc.: *See*—
Safranek, Leland, 4,548,763, Cl. 409-234.000.
Safranek, Leland, to Safranek Enterprises, Inc.: Counterbalanced adjustable router bit, 4,648,763, 3-10-87, Cl. 409-234.000.
Safreed, Carl K., Jr.: *See*—
Warmuth, Ivan J.; and Safreed, Carl K., Jr., 4,673,168, Cl. 267-64.270.
Safronov, Andrei N.: *See*—
Zarogatsky, Leonid P.; Ivanov, Nikolai A.; Korolkov, Mikhail F.; Laubgan, Villi R.; and Safronov, Andrei N., 4,655,405, Cl. 241-215.000.
Saft America, Inc.: *See*—
Wilson, John A.; Stanewicz, Robert J.; Webber, Bruce; and Allvey, George W., 4,664,287, Cl. 220-89.00A.
Safti, S.A.: *See*—
Brezillon, Jean-Loup; and Dauchier, Jean-Michel, 4,689,880, Cl. 29-623.500.
Chenebault, Philippe; and Vallin, Didier, 4,663,252, Cl. 429-101.000.
Guhano, Jean-Paul; Broussely, Michel; Pereira-Ramos, Jean-Pierre; Messina, Richard; and Perichon, Jacques, 4,690,877, Cl. 429-194.000.
Leben, Yannick; and D'Ussel, Louis, 4,710,438, Cl. 429-119.000.
Saga, Hiromu, to Jidosha Kiki Co., Ltd.: Method of manufacturing a rotor for hydraulic rotary valve, 4,703,544, 11-3-87, Cl. 29-157.10R.
Saga International, Inc.: *See*—
Shiou, Lin Jun, 4,671,580, Cl. 312-257.0SM.
Saga, Toshihiro: *See*—
Terada, Kanechiyo; Saga, Toshihiro; and Koizumi, Masahiro, 4,699,115, Cl. 123-604.000.
Saga University: *See*—
Gehara, Haruo; and Nakaoka, Tsutomu, 4,658,890, Cl. 165-92.000.
Sagalevich, Valery M.: *See*—
Dzemeshkevich, Sergei L.; Zavalishin, Nikolai N.; Krasovskaya, Svetlana M.; Sagalevich, Valery M.; Konstantinov, Boris A.; Nenjukov, Alexandr K.; and Ivanov, Alexei S., 4,692,164, Cl. 623-2.000.
Sagami Chemical Research Center: *See*—
Kondo, Kiyoshi; Matsui, Kiyohide; Negishi, Akira; and Takahatake, Yuriko, 4,681,953, Cl. 549-65.000.
Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tameiro; Tohita, Etsuko; Kondo, Kiyosi; Akimoto, Akira; Setta, Toru; and Watanabe, Hiroyuki, 4,659,744, Cl. 521-32.000.
Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tameuro; Tohita, Etsuko; and Kondo, Kiyoshi, 4,661,231, Cl. 204-252.000.
Matsui, Kiyohide; and Ishihara, Kazuhiko, 4,666,991, Cl. 525-276.000.
Matsumoto, Masakatsu; and Nishimura, Yasunobu, 4,705,884, Cl. 560-109.000.
Shibasaki, Masakatsu; Sodeoka, Mikiko; and Ogawa, Yuji, 4,644,068, Cl. 549-214.000.
Shibasaki, Masakatsu; Mase, Toshiaki; Sodeoka, Mikiko; and Ogawa, Yuji, 4,681,951, Cl. 549-214.000.
Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinada, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.
Shibasaki, Masakatsu; and Imori, Takamasa, 4,709,064, Cl. 556-418.000.
Sagami, Yosuke; Yamamoto, Akira; Watanabe, Shoji; Isobe, Tomohisa; and Funato, Susumu, to Daicel Chemical Industries, Ltd.: Resin composition to seal electronic device, 4,703,338, 10-27-87, Cl. 357-72.000.
Sagan, Stephen F.: *See*—
Rock, Dan; Roth, Mark; and Sagan, Stephen F., 4,678,332, Cl. 356-328.000.
Sagane, Toshihiro: *See*—
Nagano, Riichiro; and Sagane, Toshihiro, 4,659,785, Cl. 525-324.000.
Sagar, Stephen: *See*—
Martin, Joseph B.; Millard, William; and Sagar, Stephen, 4,657,932, Cl. 514-665.000.
Sagar, Vispi R.: *See*—
Cole, William M.; Dembek, Joseph A., Jr.; and Sagar, Vispi R., 4,665,152, Cl. 528-168.000.
Sagara, Hiroji: *See*—
Nakajima, Toshitaka; and Sagara, Hiroji, 4,652,536, Cl. 501-41.000.
Sagara, Hiroshi: *See*—
Yamada, Tomiaki; Kamihoroki, Masuo; Sagara, Hiroshi; and Umino, Hiroshi, 4,680,263, Cl. 435-162.000.
Sagara, Minoru: *See*—
Kurihara, Haruki; Sagara, Minoru; Matumoto, Kenji; and Tamura, Hideo, 4,639,925, Cl. 372-46.000.
Sagara, Tatsuo; and Sakaue, Tadashi, to Ohkura Electric Co., Ltd.: Pressure detector and strain member therefor, 4,653,329, 3-31-87, Cl. 73-726.000.
Sagawa, Kouchiro: *See*—
Meguro, Kenjiro; Sagawa, Kouchiro; Yokota, Hirofumi; and Takehara, Masahiro, 4,640,943, Cl. 523-200.000.
Sagawa, Masato: *See*—
Matsuura, Yutaka; Sagawa, Masato; and Fujimura, Setsuo, 4,684,406, Cl. 75-244.000.
Yamagishi, Wataru; and Sagawa, Masato, 4,710,242, Cl. 148-301.000.
Sagawa, Midori: *See*—
Osaka, Susumu; and Sagawa, Midori, 4,664,169, Cl. 160-107.000.
Sagawa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, to Matsushita Electric Industrial Co., Ltd.: Frequency divider circuits, 4,638,180, 1-20-87, Cl. 307-219.100.
Sagawa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, to Matsushita Electric Industrial Co., Ltd.: Frequency divider circuit and frequency synthesizer using the same, 4,679,003, 7-7-87, Cl. 331-1.00A.
Sagawa, Ryuichi; Nagata, Osamu; and Yamada, Hajime, to Kawasaki Jukogyo Kabushiki Kaisha: Governor for internal combustion engine, 4,715,339, 12-29-87, Cl. 123-357.000.
Sagawa, Takatoshi: *See*—
Kai, Yasuaki; Sagawa, Takatoshi; and Tabata, Hiroshi, 4,709,988, Cl. 350-276.00R.
Tateoka, Yasuo; Uemura, Ryuzo; and Sagawa, Takatoshi, 4,708,908, Cl. 428-423.100.
Sagawa, Takayoshi: *See*—
Hirose, Ichiro; and Sagawa, Takayoshi, 4,709,711, Cl. 131-336.000.
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,661,034, Cl. 414-416.000.
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,696,617, Cl. 414-422.000.
Sagax Instrument AB: *See*—
Bjork, Nils A. N.; Sandstrom, Erland T.; Stenberg, Johan E.; and Stiblert, Lars B., 4,647,207, Cl. 356-369.000.
Bjork, Nils A. N.; Sandstrom, Erland T.; Stenberg, Johan E.; and Stiblert, Lars B., 4,655,595, Cl. 356-369.000.
Sagaz Industries, Inc.: *See*—
Kaganas, Jose; and Wallach, Stewart, 4,669,779, Cl. 297-229.000.
Sage, Burton H.; Adrion, Robert F.; and Malpass, Michael W., to Becton, Dickinson and Company: Optical features of flow cytometry apparatus, 4,660,971, 4-28-87, Cl. 356-39.000.
Sage, Burton H., Jr., to Becton, Dickinson and Company: Fluorescent gram stain, 4,639,421, 1-27-87, Cl. 435-34.000.

Sage, Burton H., Jr., to Becton, Dickinson and Company. Detection of reticulocytes. 4,707,451, 11-17-87, Cl. 436-63.000.
Sage, Burton H., Jr.: *See*—
Wu, Hai-Ping; Sage, Burton H., Jr.; and Adrion, Robert F., 4,661,913, Cl. 364-500.000.
Sage, Donald B., Jr.: *See*—
Brannon, Robert C.; Sage, Donald B., Jr.; and Miller, David G., 4,683,254, Cl. 523-503.000.
Sage, Howard M.: *See*—
Petty, Dean M.; and Sage, Howard M., 4,686,798, Cl. 51-216.0LP.
Sage, Ian C.: *See*—
Balkwill, Peter H.; Bishop, David I.; Pearson, Andrew D.; Sage, Ian C.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and McDonnell, Damien G., 4,695,131, Cl. 350-350.00R.
Sage Laboratories, Inc.: *See*—
Chapell, Harry F., 4,641,111, Cl. 333-115.000.
Sage Products, Inc.: *See*—
Hanifl, Paul H., 4,657,139, Cl. 220-336.000.
Hanifl, Paul H., 4,715,498, Cl. 206-366.000.
Hanifl, Paul H.; and Newton, John J., Jr., 4,715,545, Cl. 241-169.100.
Sagefors, K. Ivar: *See*—
Bergman, Sten G. A.; Sagefors, K. Ivar; and Akesson, Bengt A., 4,652,181, Cl. 405-128.000.
Bergman, Sten G. A.; Sagefors, K. Ivar; and Akesson, Bengt A., 4,708,522, Cl. 405-55.000.
Sagefors, Karl I.; and Persson, Per G., to Boliden Aktiebolag. Rock cavity. 4,708,523, 11-24-87, Cl. 405-55.000.
Sager, Robert L., Jr., to Tenneco Inc. Auxiliary air injector assembly. 4,655,035, 4-7-87, Cl. 60-307.000.
Sager, Thomas B., to Branson Ultrasonics Corporation. Welding thin thermoplastic film by ultrasonic energy. 4,668,316, 5-26-87, Cl. 156-73.100.
Saggau, Boye: *See*—
Herden, Werner; and Saggau, Boye, 4,636,690, Cl. 315-58.000.
Saggese, Giuseppe: *See*—
Cortesi, Paolo; Donati, Gianri; and Saggese, Giuseppe, 4,687,643, Cl. 422-150.000.
Saggy, Shlomo: *See*—
Soffer, Abraham; Koresh, Jacob E.; and Saggy, Shlomo, 4,685,940, Cl. 55-158.000.
Sagi, Zsigmond L., to B.C.S.I. Laboratories, Inc. Cancer detection patch for early detection of breast cancer. 4,651,749, 3-24-87, Cl. 128-736.000.
Saginaw Machine Systems, Inc.: *See*—
Riley, Kenneth E.; and Skowron, Eugene, 4,642,861, Cl. 29-38.00A.
Sagisawa, Shinobu; Takahama, Teizo; and Kobayashi, Mitsuo, to Fuji Electric Corporate Research and Development Co., Ltd. Pressure sense recognition control system. 4,695,963, 9-22-87, Cl. 364-513.000.
Sagitani, Hiromichi: *See*—
Ochiai, Michio; and Sagitani, Hiromichi, 4,636,525, Cl. 514-786.000.
Sagiv Mashavei Sadeh: *See*—
Avnon, Mordechi, 4,662,396, Cl. 137-616.700.
Saglio, Robert, to Commissariat a l'Energie Atomique. Ultrasonic device. 4,635,241, 1-6-87, Cl. 367-95.000.
Sago, Yoshiharu; Kurosawa, Masaji; and Kanamori, Nobutaka, to Toho Gas Co., Ltd.; Nichias Corporation; and Honshuseishi Kabushiki Kaisha. Method of preparing heat exchange element. 4,650,621, 3-17-87, Cl. 264-62.000.
Sagoi, Masayuki; and Nishikawa, Reiji, to Kabushiki Kaisha Toshiba. Method of manufacturing perpendicular magnetic recording floppy disk. 4,680,197, 7-14-87, Cl. 427-129.000.
Sagoi, Masayuki; Tanaka, Yoichiro; and Nakamura, Hiroki, to Kabushiki Kaisha Toshiba. Magnetic recording medium. 4,701,374, 10-20-87, Cl. 428-336.000.
Sagou, Seiji; and Itou, Takeo, to Kabushiki Kaisha Toshiba. Method of manufacturing phosphor screen of cathode ray tube. 4,687,825, 8-18-87, Cl. 427-54.100.
Sagow, Seiji: *See*—
Itou, Takeo; Koike, Norio; and Sagow, Seiji, 4,651,054, Cl. 313-468.000.
Sagstetter, William E.; and Wanderer, Alan A. Manually operated reusable injection apparatus. 4,664,653, 5-12-87, Cl. 604-197.000.
Sagstetter, William E.: *See*—
Wanderer, Alan A.; and Sagstetter, William E., 4,693,708, Cl. 604-198.000.
Sagues, Paul, to Berkeley Process Control, Inc. Method and apparatus for measuring velocity and position in servo systems. 4,639,884, 1-27-87, Cl. 364-565.000.
Sagusa, Hisayuki: *See*—
Makiguchi, Kyoko; Sagusa, Hisayuki; and Nomura, Yasushi, 4,684,252, Cl. 356-328.000.
Sah, Chih; and Cheng, Li-Jen, to United States of America, National Aeronautics and Space Administration. Floating emitter solar cell. 4,665,277, 5-12-87, Cl. 136-255.000.
Saha, Debabrata, to University of Michigan, The. Quadrature-quadrature phase shift keying. 4,680,777, 7-14-87, Cl. 375-53.000.
Saha, Sanjiv, to BICC Public Limited Company. Apparatus for extracting light from the core of an optical fibre through the cladding and buffer coating thereof and its use in optical fibre splicing. 4,696,534, 9-29-87, Cl. 350-96.150.
Saha, Sanjiv, to BICC Public Limited Company. Apparatus for injecting light through a buffer-coated optical fibre into the core thereof and its use in optical fibre splicing. 4,696,535, 9-29-87, Cl. 350-96.150.
Sahara, Hideshi. Retractable type wiper apparatus. 4,686,733, 8-18-87, Cl. 15-250.160.
Sahara, Hirokazu; and Nakayama, Kiyoshi, to NEC Corporation. Rate sensor with coaxially mounted scanning antenna. 4,675,688, 6-23-87, Cl. 343-765.000.
Sahara, Hiroshi: *See*—
Magome, Koichi; Toda, Haruki; Koinuma, Hiroyuki; Sahara, Hiroshi; Suzuki, Kiminobu; Ohshima, Shigeo; and Komatsu, Kenji, 4,678,934, Cl. 307-279.000.
Shibui, Michiro; Hanamoto, Yoshihiro; Ishigaki, Yoshio; Sahara, Hiroshi; Maeda, Satoru; and Noguchi, Yasushi, 4,694,406, Cl. 364-518.000.
Sahara, Masanori: *See*—
Nakamura, Saburo; Matsuoka, Tsutomu; Yamauchi, Hirofumi; and Sahara, Masanori, 4,640,252, Cl. 123-446.000.
Nakamura, Saburo; Sakurai, Shigeru; Nishida, Takumi; and Sahara, Masanori, 4,682,576, Cl. 123-179.00A.
Nishida, Takumi; Nomoto, Yoshitaka; Sahara, Masanori; and Yamauchi, Hirofumi, 4,669,429, Cl. 123-179.00L.
Sahara, Masayoshi: *See*—
Nakai, Masaaki; Sahara, Masayoshi; and Taniguchi, Nobuyuki, 4,639,112, Cl. 354-455.000.
Nakai, Masaaki; Sahara, Masayoshi; and Taniguchi, Nobuyuki, 4,673,275, Cl. 354-412.000.
Taniguchi, Nobuyuki; Niwa, Masatake; Fujii, Akira; Hoda, Takeo; Nakai, Masaaki; Sekida, Minoru; and Sahara, Masayoshi, 4,712,904, Cl. 354-475.000.
Sahara, Toshitsugu: *See*—
Yasuki, Ryuichi; and Sahara, Toshitsugu, 4,649,895, Cl. 126-263.000.
Sahkolikkeiden Oy: *See*—
Miemela, Pentti; and Jaatinen, Jarl, 4,707,603, Cl. 250-339.000.
Sahlberg, Agge. Anchor arranged for lowering along an inclined plane. 4,704,982, 11-10-87, Cl. 114-304.000.
Sahlgren, Anders; Gustafsson, Rolf; Goransson, Bo; and Sundqvist, Yngve, to Aktiebolaget SKF. Roller bearing cage. 4,654,268, 8-4-87, Cl. 384-574.000.
Sahlmen, Thomas: *See*—
Janiszewski, Grzegorz; and Sahlmen, Thomas, 4,676,354, Cl. 192-0.044.
Sahm, Michael K.; and Milano, Robert, to United Technologies Corporation. Convergent-divergent film coolant passage. 4,705,455, 11-10-87, Cl. 416-97.00R.
Sahni, Atam P.: *See*—
Williams, Charles F.; and Sahni, Atam P., 4,680,139, Cl. 252-511.000.
Saho, Norihide: *See*—
Matsuda, Toshiharu; Saho, Norihide; Imamura, Minoru; and Hosomi, Nobuyuki, 4,667,477, Cl. 62-55.500.
Sahoda, Masayuki; Tanaka, Fuminari; and Iida, Tetsuya, to Kabushiki Kaisha Toshiba. Highspeed parallel adder with clocked switching circuits. 4,701,877, 10-20-87, Cl. 364-784.000.
Sahota, Harvinder. Apparatus and method for positioning and puncturing an artery and a vein. 4,667,679, 5-26-87, Cl. 128-663.000.
Sahr, Gladys M.: *See*—
Layne, Richard C., 4,711,059, Cl. 52-173.0DS.
Sahrbacker, Edward V., to Lucerne Products, Inc. Electrical switch with rocker actuator having removable locking key. 4,705,920, 11-10-87, Cl. 200-43.040.
Sahulka, Richard J.: *See*—
Gdaniec, Joseph M.; Sahulka, Richard J.; and Soll, David B., 4,636,948, Cl. 364-300.000.
Saia, Lawrence A.: *See*—
Fox, Thomas J.; Saia, Lawrence A.; Savill, Robert F., Jr.; Trapani, Richard D.; and Turner, Melvyn E., 4,668,852, Cl. 219-76.140.
Saibe, Seiichi: *See*—
Aso, Hideo; Fujino, Hirohisa; and Saibe, Seiichi, 4,712,493, Cl. 112-112.000.
Saibic, Darryl S., to Florida Development and Manufacturing, Inc. Swimming pool water purifier. 4,713,170, 12-15-87, Cl. 210-85.000.
Saicheck, Harvey E., Jr.; and Saicheck, Harvey E., Sr. Carrier assembly for vertical blinds. 4,688,618, 8-25-87, Cl. 160-168.00R.
Saicheck, Harvey E., Sr.: *See*—
Saicheck, Harvey E., Jr.; and Saicheck, Harvey E., Sr., 4,688,618, Cl. 160-168.00R.
Said, Ronald S. Apparatus for mounting application heads to an agricultural implement. 4,677,787, 7-7-87, Cl. 47-1.500.
Saida, Nobuyuki: *See*—
Haruna, Koichi; Nakao, Kazuo; Nishiyama, Tamotsu; Tashiro, Tsutomu; Matsumoto, Kuniaki; and Saida, Nobuyuki, 4,644,480, Cl. 364-552.000.
Saida, Toyoyasu; Sunagawa, Takahisa; Yamakawa, Tsuneo; Ohta, Norima; and Obara, Keishi, to Toyo Engineering Corporation. Method of batchwise treating radioactive organic wastes. 4,686,068, 8-11-87, Cl. 252-632.000.
Saiden Chemical Industry Co., Ltd.: *See*—
Kinoshita, Toru, 4,645,783, Cl. 523-221.000.
Kinoshita, Toru, 4,656,218, Cl. 524-460.000.
Saieva, Carl J. Process and apparatus for recovering metals from dilute solutions. 4,652,352, 3-24-87, Cl. 204-105.00R.
Saiga, Yoshiko: *See*—
Katsuragi, Yasuhiro; Matsuda, Naoki; Saiga, Yoshiko; Kobayashi, Yasunobu; Nakamura, Masakazu; and Satoh, Toshio, 4,686,206, Cl. 514-27.000.
Saiga, Yutaka: *See*—
Iijima, Ikuo; Homma, Koichi; Saiga, Yutaka; Matsuoka, Yuzo; and Matsumoto, Mamoru, 4,663,319, Cl. 514-212.000.

Saigal, Anil: *See*—
Dhott, Anu Marie; Dhott, Stephen P.; and Saigal, Anil, 4,666,042, Cl. 206-542.000.

Saigh, Philip A.: *See*—
Budininkas, Pranas; and Saigh, Philip A., 4,656,831, Cl. 60-297.000.

Saigo, Fumitaka: *See*—
Saotome, Masaru; Saigo, Fumitaka; and Kokubun, Hitoshi, 4,664,408, Cl. 280-689.000.

Saigo, Hiroshi; and Suzuki, Takashi, to Iwaya Corporation, Toy having independent power feeder, 4,699,603, 10-13-87, Cl. 446-304.000.

Saigo, Takaichi: *See*—
Akiyama, Teruo; Sasaki, Katsuyuki; and Saigo, Takaichi, 4,637,781, Cl. 417-216.000.

Sala, Anthony J., to Textron Inc. Apparatus for establishing reel-to-bedknife clearance, 4,653,256, 3-31-87, Cl. 56-249.000.

Sala, Anthony J., to Textron Inc. Apparatus and method for establishing reel-to-bedknife clearance, 4,663,924, 5-12-87, Cl. 56-249.000.

Saiji, Mitsuhiro: *See*—
Washizuka, Isamu; Nishimura, Kosuke; and Saiji, Mitsuhiro, 4,701,862, Cl. 364-513.500.

Saiji, Mituhiro: *See*—
Masuzawa, Sigeaki; Yoshida, Hideo; and Saiji, Mituhiro, 4,700,393, Cl. 381-51.000.

Saijo, Akira; Matsune, Fusakiyo; Fujino, Yuji; and Watanabe, Shinji, to Koito Manufacturing Co., Ltd. Aiming device for automobile head lamp, 4,689,725, 8-25-87, Cl. 362-66.000.

Saijo, Eiji; and Wakata, Shigekazu, to Tokai Electric Wire Company Limited. Connector housing, 4,679,874, 7-14-87, Cl. 439-595.000.

Saijo, Hideo: *See*—
Yamamoto, Shigehiro; Hashimoto, Terukuni; Kobayashi, Mitsuo; Iwaki, Tsugishige; Tamura, Katsushige; and Saijo, Hideo, 4,702,872, Cl. 264-114.000.

Saijo, Takao; and Fujita, Masafumi, to Minolta Camera Kabushiki Kaisha. Microfilm and microfilm printer, 4,693,591, 9-15-87, Cl. 355-41.000.

Saijo, Takashi: *See*—
Hojo, Takeshi; Fukano, Michio; Saijo, Takashi; and Sato, Kazuteru, 4,653,325, Cl. 73-505.000.

Saijo, Takemi: *See*—
Manabe, Seiichiro; Sawano, Tsutomu; and Saijo, Takemi, 4,693,739, Cl. 65-21.400.

Saijo, Yoshihiko: *See*—
Okazaki, Takashi; Matsu'ura, Yukio; and Saijo, Yoshihiko, 4,638,549, Cl. 29-564.400.

Saijo, Yoshihiro: *See*—
Koike, Mitsuhiro; Saijo, Yoshihiro; and Kume, Tadaaki, 4,708,707, Cl. 493-313.000.

Saijyo, Toru: *See*—
Naito, Tadashi; Okuda, Kenzo; Ohmori, Masakazu; Saijyo, Toru; and Imaizumi, Ken, 4,700,309, Cl. 364-468.000.

Saika, Nobuo, to Toyo Seimaiki Seisakusho Kabushiki Kaisha. Cleaning device of ray transmission window incorporated into optical selector, 4,699,274, 10-13-87, Cl. 209-587.000.

Saika, Nobuo, to Toyo Seimaiki Seisakusho Kabushiki Kaisha. Chute for optical selector, 4,715,487, 12-29-87, Cl. 193-2.00R.

Saikawa, Isamu: *See*—
Imaizumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko; Murotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka, Kiyoshi; Takano, Shuntaro; and Saikawa, Isamu, 4,656,287, Cl. 548-194.000.
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.
Sadaki, Hiroshi; Imaizumi, Hiroyuki; Takeda, Kenji; Inaba, Takihiro; Takeno, Ryuko; Morita, Seishi; Kajita, Tetsuya; and Saikawa, Isamu, 4,667,040, Cl. 548-195.000.
Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Konishi, Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Tai, Masaru; Watanabe, Yasuo; and Saikawa, Isamu, 4,673,738, Cl. 540-222.000.
Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, 4,704,459, Cl. 546-123.000.

Saiki, Atsushi; Suzuki, Michio; Sunami, Hideo; Asai, Shojiro; Mari, Michiyoshi; and Asami, Kinichiro, to Hitachi Plant Engineering & Construction Co., Ltd.; and Hitachi, Ltd. Clean room, 4,693,175, 9-15-87, Cl. 98-31.500.

Saiki, Eisaku; and Kawauchi, Masataka, to Hitachi, Ltd. Automatic sheet feeding device, 4,709,911, 12-1-87, Cl. 271-10.000.

Saiki, Koji: *See*—
Sakurai, Yoshifumi; and Saiki, Koji, 4,675,239, Cl. 428-607.000.

Saiki, Randall K.; and Erlich, Henry A., to Cetus Corporation. Method for detection of polymorphic restriction sites and nucleic acid sequences, 4,683,194, 7-28-87, Cl. 435-6.000.

Saiki, Randall K.: *See*—
Mullis, Kary B.; Erlich, Henry A.; Arnheim, Norman; Horn, Glenn T.; Saiki, Randall K.; and Scharf, Stephen J., 4,683,195, Cl. 435-6.000.

Saiki, Terunari: *See*—
Mikami, Tetsuo; and Saiki, Terunari, 4,703,825, Cl. 180-229.000.

Saikkonen, Stuart L.: *See*—
Amos, Lynn G.; Saikkonen, Stuart L.; and Young, Donald R., 4,662,307, Cl. 118-50.100.

Saikku, Pekka A. I.: *See*—
Makela, Pirjo H.; Leinonen, Maija K.; Nurminen-Kalliokoski, Marjatta H.; and Saikku, Pekka A. I., 4,652,518, Cl. 435-7.000.

Saiko, Alfons: *See*—
Spieldiener, Robert; Spieldiener, Reinhold; and Saiko, Alfons, 4,596,251, Cl. 114-346.000.

Saiko, Otto: *See*—
Irmscher, Klaus; Saiko, Otto; Minck, Klaus-Otto; and Wolf, Hans-Peter, 4,654,350, Cl. 514-303.000.

Sailer, Heinrich: *See*—
Schollmeier, Gero H. J.; and Sailer, Heinrich, 4,695,998, Cl. 370-32.100.

Sailer, Hubert; Dietenberger, Josef; and Ehrlinger, Friedrich J., to Zahnradfabrik Friedrichshafen AG. Forced-cooling friction brake or clutch, 4,667,798, 5-26-87, Cl. 192-70.120.

Sailer, Hubert: *See*—
Ehrlinger, Friedrich; and Sailer, Hubert, 4,671,377, Cl. 180-249.000.
Ehrlinger, Friedrich J.; Muller, Franz; Simon, Herbert; and Sailer, Hubert, 4,685,343, Cl. 74-331.000.

Sailsbury, Lowell W. Method of making popcorn balls, 4,652,456, 3-24-87, Cl. 426-307.000.

Sair, Bernard S., to Trailer Marine Transport Corporation. Modular ventilation system for vehicles, 4,633,767, 1-6-87, Cl. 98-6.000.

Sainen, Tsutomu, to Tsudakoma Corp. Pick spacing controlling device and method, 4,712,588, 12-15-87, Cl. 139-309.000.

Sainen, Tsutomu: *See*—
Miyamoto, Osamu; and Sainen, Tsutomu, 4,662,406, Cl. 139-1.00R.

Saines, Marius: *See*—
Landau, Boris; and Saines, Marius, 4,692,157, Cl. 604-214.000.

Saingier, Jean; and Joly, Jean-Pierre A., to Filature de La Gosse S.A. Derivatives of N-oxiranemethane N,N,N-trialkylammonium, their preparation method and their use for the treatment of polyhydroxylated and polyminated polymers, 4,652,267, 3-24-87, Cl. 8-115.510.

Saingier, Jean; and Joly, Jean-Pierre A., to Dollfus-Meig & Cie. N-oxiranemethane N,N,N-trialkylammonium compounds, 4,695,641, 9-22-87, Cl. 549-552.000.

Sainomoto, Yoshinori; and Maekawa, Nobuteru, to Matsushita Electric Works Ltd. Leakage detecting device for electrical appliance, 4,706,153, 11-10-87, Cl. 361-42.000.

Sainsbury, Cleo L., to AirSamplex Corporation. Convertible raft, tent and mattress, 4,650,432, 3-17-87, Cl. 441-35.000.

Sainsbury, Garrett M. Shaft sinking method, 4,701,073, 10-20-87, Cl. 405-133.000.

St. Amand, Pierre; and Mathews, Larry A., to United States of America, Navy. Method of producing cumulus clouds, 4,653,690, 3-31-87, Cl. 239-2.100.

St. Angelo, Stephen; Carver, George C.; Patterson, David W.; and Fremont, Owen K., to General Motors Corporation. Apparatus of a robot for installing weather stripping in a door or like opening, 4,715,110, 12-29-87, Cl. 29-701.000.

St-Arnaud, Jean-Marie: *See*—
Achtermann, Jurgen H.; Bose, Tapan K.; and St-Arnaud, Jean-Marie, 4,702,604, Cl. 356-361.000.

St. Clair, David J.: *See*—
Samuelson, Gay M.; and St. Clair, David J., 4,692,557, Cl. 136-251.000.

St. Clair, David L., to Owens-Illinois, Inc. Plastic container with integral spout, 4,640,855, 2-3-87, Cl. 428-36.000.

St. Clair, Gordon; and Alsenz, Evert C., to Avionics Antenna Systems. Multiband multimode aircraft antenna, 4,635,066, 1-6-87, Cl. 343-705.000.

St. Clair, Joe C.: *See*—
Romero, Hector, Jr.; St. Clair, Joe C.; and Wagoner, James D., 4,648,032, Cl. 364-200.000.

St. Clair, John S.; and Brignall, Nicolas L., to Ferranti plc. Radiation path axis directing system, 4,680,522, 7-14-87, Cl. 318-664.000.

St. Clair, Lawrence B.: *See*—
Paton, Charles R.; and St. Clair, Lawrence B., 4,656,322, Cl. 200-50.00A.

St. Clair, Rodney. Bulk material compressor, 4,655,128, 4-7-87, Cl. 100-145.000.

St. Clair, Terry L.; Maudgal, Shubha; and Pratt, J. Richard, to United States of America, National Aeronautics and Space Administration. Polytcarbonate-imide) polymer, 4,713,439, 12-15-87, Cl. 528-353.000.

St. Clair, Terry L.: *See*—
Egli, Annmarie O.; and St. Clair, Terry L., 4,695,610, Cl. 525-426.000.

Saint, David H.; and Funk, John W., to Canada, Her Majesty the Queen in right of. Blast wave densitometer system, 4,682,034, 7-21-87, Cl. 250-363.00R.

St. Georgiev, Vassil: *See*—
Brown, Richard E.; St. Georgiev, Vassil; Kropp, Philip; and Loev, Bernard, 4,668,678, Cl. 514-250.000.

St. Germain, Gene R.: *See*—
Bernhagen, James R.; Crabb, Elmer R.; Murphy, Marilyn S.; Roley, Daniel G.; St. Germain, Gene R.; and Tunnell, James H., 4,700,794, Cl. 180-6.440.

Saint-Gobain Recherche: *See*—
Bravet, Jean-Louis; and Daude, Gerard, 4,672,001, Cl. 428-425.600.
Bravet, Jean-Louis; and Daude, Gerard, 4,675,237, Cl. 428-425.600.

Saint-Gobain Vitrage: *See*—
Agethen, Heinrich; Gesenhues, Paul; Radisch, Helmer; Jandelett, Otto; and Schafer, Wolfgang, 4,643,944, Cl. 428-349.000.
Bartusel, K. Rudolf; Diederen, Werner; Liepelt, Eberhard; and Linberg, Waldemar, 4,661,142, Cl. 65-348.000.

Bravet, Jean L.; Colmon, Daniel; Daude, Gerard; and Moncheaux, Michel J., 4,652,494, Cl. 428-423.100.
Bravet, Jean L.; Colmon, Daniel; Daude, Gerard; and Moncheaux, Michel J., 4,671,838, Cl. 156-246.000.
Breuer, Kornelia; Gelderie, Udo; Holzer, Gerhard; and Raedisch, Helmer, 4,684,694, Cl. 524-730.000.
Crumbach, Richard; Gillner, Manfred; Schilde, Heinz J.; and Tiedemann, Helmut, 4,707,208, Cl. 156-285.000.
Degeilh, Robert, 4,652,320, Cl. 156-99.000.
Degeilh, Robert, 4,696,971, Cl. 525-61.000.
Diederen, Werner; and Sonnleitner, Herbert, 4,634,329, Cl. 414-159.000.
Ehre, Hubert, 4,666,491, Cl. 65-27.000.
Frisch, Kurt C.; Klempner, Daniel; Radisch, Helmer; and Holzer, Gerhard, 4,705,721, Cl. 428-349.000.
Garnier, Patrick; Abriou, Daniel; and Coquillon, Michel, 4,661,137 Cl. 65-21.400.
Halberschmidt, Friedrich; Reinmold, Heinz-Josef; Schwarzenberg, Norbert; Radermacher, Herbert; Blank, Kurt; Audi, Josef; and Vanaschen, Luc, 4,682,997, Cl. 65-106.000.
Helmer, Radisch; and Gunther, Esser, 4,711,805, Cl. 428-323.000.
Kerherve, Jean-Pierre; and Queromes, Armel, 4,694,091, Cl. 556-104.000.
Kraemer, Johannes; Leclere, Klemens; Nuding, Werner; and Schilde, Heinz-Josef, 4,701,240, Cl. 156-555.000.
Kunert, Heinz; Vanaschen, Luc; and Cornils, Gerd, 4,681,794, Cl. 428-188.000.
Kunert, Heinz; and Cornils, Gerd, 4,704,175, Cl. 156-108.000.
Leclercq, Jacques, 4,636,698, Cl. 318-443.000.
Lenhardt, Karl, 4,696,256, Cl. 118-680.000.
Lenhardt, Karl, 4,714,425, Cl. 425-461.000.
Mattes, Gunther; and Ortmanns, Gunter, 4,707,383, Cl. 427-168.000.
Musil, Ingrid; Holzer, Gerhard; and Raedisch, Helmer, 4,657,790, Cl. 428-38.000.
Neuzillet, Desire; and De Toytot, Francois, 4,653,912, Cl. 356-237.000.
Noiret, Robert; and Zortea, Michel, 4,693,740, Cl. 65-135.000.
Poncelet, Denis; Coulon, Jean-Claude; Chaumette, Jacques; and Letourneur, Pierre, 4,634,231, Cl. 350-311.000.
Reinmold, Heinz-Josef; Mucha, Horst; and Friedrich, Heinz-Dieter, 4,648,210, Cl. 51-165.770.
Villain, Jean-Marie; and Fremaux, Jacques, 4,692,180, Cl. 65-32.000.

Saint-Gobain Vitrage (Les Miroirs): *See* –
Guglielmetti, Giorgio; Carossio, Guido; and Gilli, Luigi, 4,713,994, Cl. 83-71.000.

St. Hilaire, Arthur: *See*—
Coniglaro, Anthony; St. Hilaire, Arthur; and De Yoreo, Sal G., 4,682,740, Cl. 241-282.100.

Saint-Hilaire, Raymond. Heddless with lateral threading for weaving looms. 4,703,777, 11-3-87, Cl. 139-96.000.

St. Island Intl. Patent & Trademark Office: *See*—
Huang, Ming-Chien, 4,714,230, Cl. 248-613.000.

Saint Ive, Michael H.; to Kal, Stephen. Dice pyramid tally board and game. 4,711,453, 12-8-87, Cl. 273-268.000.

Saint-Jean, Guy: *See*—
Jeanjean, Robert; Demissy, Daniel; Saint-Jean, Guy; and Landry, Michel, 4,711,978, Cl. 200-148.00A.

St. Joe Minerals Corporation: *See*—
Pusateri, John F.; Kidd, Thomas E.; and Lazalier, Glen R., 4,654,077, Cl. 75-92.000.

St. John, John: *See*—
Scrudato, Frederick; and St. John, John, 4,699,054, Cl. 101-330.000.

St. Jude Children's Research Hospital: *See*—
Chwang, Tek L., 4,652,554, Cl. 514-49.000.
Schonbaum, Gregory R., 4,645,661, Cl. 424-10.000.

St. Laurent, James C. T. B.: *See*—
Busch, Alfred; and St. Laurent, James C. T. B., 4,680,131, Cl. 252-102.000.

St. Laurent, Wilfred; and Athanassiu, Christos, to Bellofram Corporation. Fluid operated pump. 4,705,458, 11-10-87, Cl. 417-46.000.

St. Lawrence, Thomas W. Bulk-bag discharge methods. 4,669,950, 6-2-87, Cl. 414-786.000.

Saint Leger, Gerard: *See*—
Lefevre, Remi; and Saint Leger, Gerard, 4,658,782, Cl. 123-339.000.

St. Louis, Robert M.; to Camco Inc. Heater coil mounting. 4,656,340, 4-7-87, Cl. 219-532.000.

St. Louis, Robert M., to Camco Inc. Drier storable rack. 4,677,760, 7-7-87, Cl. 34-90.000.

St. Louis, Robert M.; to Camco Inc. Anti-tilt system for appliances. 4,687,262, 8-18-87, Cl. 312-276.000.

St. Louis University: *See*—
Greenberg, Richard N., 4,701,458, Cl. 514-280.000.

St-Michel, Andre, to Domtar Inc. Wood substrate having good flame resistance. 4,642,268, 2-10-87, Cl. 428-453.000.

Saint, Nathaniel: *See*—
Brownlie, Alan; and Saint, Nathaniel, 4,688,850, Cl. 297-270.000.

St. Onge, Henri S. Apparatus for cathodic protection of metal piping. 4,692,231, 9-8-87, Cl. 204-197.000.

St.Pierre, Girard T.: *See*—
DeSanti, Raymond J.; and St.Pierre, Girard T., 4,647,150, Cl. 350-96.210.

St. Pierre, Michael, to Marin-Tek, Inc. Zero gravity (position-insensitive) low-temperature multi-component refrigerator. 4,689,964, 9-1-87, Cl. 62-114.000.

Saint-Sevin, Michel: *See*—
Baluteau, Jean-Michel; Saint-Sevin, Michel; and Chabanier, Patrick, 4,637,692, Cl. 350-486.000.

St. Thomas Institute: *See*—
Tsuchiya, Yoshiki, 4,666,893, Cl. 514-78.000.

St. Vincent Medical Center: *See*—
Bondy, Daniel A.; East, Judith A.; and Rizzo, Christina M., 4,641,387, Cl. 5-508.000.

Sainte-Foi, Daniel: *See*—
Debouzie, Alain; and Sainte-Foi, Daniel, 4,664,691, Cl. 65-6.000.

Saintonge, Andre: *See*—
Carrier, Denis; and Saintonge, Andre, 4,707,685, Cl. 340-573.000.

Saintsing, Barry L.; Clark, Douglas C.; and Weber, John D. Adjustable-delivery cigarette. 4,648,413, 3-10-87, Cl. 131-336.000.

Saipem S.p.A.: *See*—
Cianci, Giuseppe; and Traverso, Carlo, 4,641,984, Cl. 403-14.000.

Sairenji, Michihiko. Tooth clamp. 4,639,221, 1-27-87, Cl. 433.139.000.

Saita, Koji: *See*—
Kume, Hisao; Nishihara, Tokihiro; Shirasaka, Hiroharu; Kanehira, Kenichi; and Saita, Koji, 4,682,965, Cl. 445-37.000.

Saita, Kozo: *See*—
Kokubu, Yoshinori; Chiba, Jiro; and Saita, Kozo, 4,665,039, Cl. 501-39.000.

Saita, Shigeaki; Takada, Hiroshi; and Tairaku, Senichi, to Hitachi, Ltd. Compact fluorescent lamp having bulb base. 4,644,224, 2-17-87, Cl. 313-634.000.

Saitoku Corporation: *See*—
Takahashi, Yasunori, 4,672,009, Cl. 428-694.000.

Saito, Akiko: *See*—
Sekine, Susumu; Mizukami, Tamio; Sato, Moriyuki; Itoh, Seiga; and Saito, Akiko, 4,689,402, Cl. 530-399.000.

Saito, Akinori; Yamada, Masatoshi; Imai, Kenji; Kawamura, Kiyomi; and Kimura, Masanobu, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Method and device for forming mixture gas in direct injection type internal combustion engine. 4,685,432, 8-11-87, Cl. 123-276.000.

Saito, Akinori: *See*—
Kano, Noboru; and Saito, Akinori, 4,664,440, Cl. 296-214.000.
Oshima, Yujiro; Yamada, Masatoshi; Mori, Nobuyuki; Sugiyama, Katsuhiko; Aoyama, Taro; Saito, Akinori; and Kozuka, Kazuhiro, 4,633,830, Cl. 123-276.000.

Saito, Akio: *See*—
Ikeda, Masami; Aoki, Seiichi; Saito, Akio; Inamoto, Tadayoshi; and Yokoi, Katsuyuki, 4,646,110, Cl. 346-140.00R.

Saito, Akira, to Kyocera Corporation. Silicon carbide sintered body and process for production thereof. 4,681,861, 7-21-87, Cl. 501-89.000.

Saito, Akito, to Honda Giken Kogyo Kabushiki Kaisha. Exhaust pipe supporting structure. 4,676,332, 6-30-87, Cl. 180-89.200.

Saito, Asao; and Watanabe, Kunio, to Canon Kabushiki Kaisha. Image forming method using image forming elements having different concentrations and pitches. 4,692,773, 9-8-87, Cl. 346-1.100.

Saito, Asao: *See*—
Matsumoto, Tokio; Aoki, Seiichi; Matsuda, Hiroto; Ikeda, Masami; Matsumoto, Haruyuki; and Saito, Asao, 4,646,105, Cl. 346-1.50.

Saito, Atsushi; Ojima, Masahiro; Maeda, Takeshi; and Kato, Tsuyoshi, to Hitachi, Ltd. Method and apparatus for thermo magnetic recording/erasing information with preselected magnetic field switching. 4,712,203, 12-8-87, Cl. 369-13.000.

Saito, Atsushi: *See*—
Ichihashi, Hiroo; Ozawa, Masakazu; Ebinuma, Ryuichi; and Saito, Atsushi, 4,695,855, Cl. 346-145.000.
Ichihashi, Hiroo; Ozawa, Masakazu; Saito, Atsushi; and Ebinuma, Ryuichi, 4,704,620, Cl. 346-140.00R.
Ojima, Masahiro; Saito, Atsushi; and Kato, Tsuyoshi, 4,672,593, Cl. 369-13.000.

Saito, Cyuichi; and Sato, Yoshihiko, to Hitachi, Ltd. Balustrade of passenger conveyor. 4,666,028, 5-19-87, Cl. 198-335.000.

Saito, Cyuichi: *See*—
Nakazawa, Hayashi; Nakao, Shouichi; Saito, Cyuichi; and Kawagoshi, Makoto, 4,674,619, Cl. 198-331.000.
Teranishi, Katsuya; Ozima, Kazuhira; Saito, Cyuichi; and Ogawa, Hiroyasu, 4,682,681, Cl. 198-333.000.

Saito, Fuminari; Kajino, Jirou; and Kanchiku, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Magnetic tape recording and/or reproducing apparatus. 4,672,476, 6-9-87, Cl. 360-85.000.

Saito, Fuminari: *See*—
Nakayama, Nobuo; Nagamine, Kenzi; Ueda, Kazuya; and Saito, Fuminari, 4,703,186, Cl. 250-566.000.

Saito, Fumitaka; and Isabe, Hiroko, to Tachikawa Spring Co., Ltd. Method for manufacturing a seat. 4,665,606, 5-19-87, Cl. 29.448.000.

Saito, Goro: *See*—
Itaya, Hiroshi; and Saito, Goro, 4,710,702, Cl. 324-79.00R.
Nakamura, Junji; Nishimura, Ikuma; Saito, Goro; and Matsumoto, Kozo, 4,710,436, Cl. 429-41.000.
Yoshizawa, Shigemichi; and Saito, Goro, 4,700,129, Cl. 324-83.00R.

Saito, Gunji, to Honda Giken Kogyo Kabushiki Kaisha. Cultivator. 4,640,366, 2-3-87, Cl. 172-42.000.

Saito, Gunji: *See*—
Inokuchi, Hiroo; Saito, Gunji; Seki, Kazuhiko; and Mori, Takehiko, 4,691,028, Cl. 549-36.000.
Kutsukake, Mitsuhiro; Murata, Takahiko; Saito, Gunji; Komatsuzaki, Takeshi; Uehara, Kuniaki; Kato, Toshinobu; Hattori, Takeo; and Hayashida, Morimasa, 4,711,077, Cl. 56-320.200.
Saruhashi, Kazuo; Ara, Masato; Suzuki, Takanori; Saito, Gunji; and Kojima, Atsushi, 4,679,382, Cl. 56-10.100.

Saito, Hajime: *See*—
Shimoda, Hiromi; and Saito, Hajime, 4,699,587, Cl. 431-354.000.

Saito, Hideaki: *See*—
Muramatsu, Tateo; Enami, Yasushi; Saito, Hideaki; and Aramaki, Kaminori, 4,662,783, Cl. 405-115.000.
Saito, Hideo: *See*—
Kasai, Hitoshi; Asagi, Yasuyoshi; Hattori, Toshihiro; Saito, Hideo; and Shishido, Katsuya, 4,635,214, Cl. 364-551.000.
Nakao, Shinzoku; Saito, Hideo; and Suzuki, Yoshiyuki, 4,660,850, Cl. 280-642.000.
Saito, Hideyuki: *See*—
Yasuhara, Seishi; Kobayashi, Hiroshi; Kita, Toru; and Saito, Hideyuki, 4,646,070, Cl. 340-603.000.
Saito, Hiroshi: *See*—
Masuda, Yoshinori; Saito, Hiroshi; and Kobayashi, Hiroshi, 4,690,994, Cl. 526-254.000.
Saito, Hitoshi: *See*—
Inou, Kiyoharu; Matsumura, Hideaki; and Saito, Hitoshi, 4,680,688, Cl. 363-21.000.
Inou, Kiyoharu; and Saito, Hitoshi, 4,685,039, Cl. 363-16.000.
Ushimaru, Koichi; Nakamichi, Koichi; and Saito, Hitoshi, 4,702,918, Cl. 424-461.000.
Saito, Ichiro: *See*—
Osato, Yoichi; Fuji, Eiichi; Saito, Ichiro; and Arao, Kozo, 4,664,977, Cl. 428-336.000.
Osato, Yoichi; Saito, Ichiro; Arao, Kozo; Fuji, Eiichi; and Takasu, Yoshio, 4,675,767, Cl. 360-131.000.
Saito, Isao; Nomoto, Seiichiro; Kamiya, Takashi; Yamauchi, Hiroshi; Sugiyama, Isao; Machida, Yoshimasa; and Negi, Shigeto, to Eisai Co., Ltd. 3-(pyrrolidinio)methyl-3-cephem derivatives. 4,698,336, 10-6-87, Cl. 514-202.000.
Saito, Junichi; Yasui, Kazuomi; Shiokawa, Kozo; and Kamochi, Atsumi, to Nihon Tokushu Noyaku Seizo K.K. Substituted phenoxypropionates and herbicidal compositions containing same and their herbicidal use. 4,659,370, 4-21-87, Cl. 71-98.000.
Saito, Junichi; Tamura, Tatsuo; Kurahashi, Yoshio; Uzawa, Shigeru; Matsumoto, Noboru; and Yamaguchi, Naoko, to Nihon Tokushu Noyaku Seizo K. K. Substituted phenylsulfonylazoles. 4,710,509, 12-1-87, Cl. 514-384.000.
Saito, Junji: *See*—
Oguri, Yasuo; Saito, Junji; and Kijima, Naoto, 4,716,029, Cl. 423-625.000.
Saito, Junya; Yamada, Hisafumi; and Tsutsui, Ichiro, to Sony Corporation. Ghost cancelling system. 4,667,241, 5-19-87, Cl. 358-167.000.
Saito, Kaneo; Kodaka, Fujio; and Tsurumaki, Kazuyoshi, to Konishiroku Photo Industry Co., Ltd. Photosensitive material processing apparatus. 4,653,891, 3-31-87, Cl. 354-304.000.
Saito, Kaoru; Noji, Akio; Kakuta, Yonehiro; and Takigawa, Koichi, to Honda Giken Kogyo Kabushiki Kaisha. Cant angle sensor assembly. 4,700,479, 10-20-87, Cl. 33-366.000.
Saito, Katsuchi; Yoshikawa, Shokichiro; and Hirai, Akira, to Miaski Shipbuilding and Engineering Co., Ltd. Pulverizing and particle-size classifying apparatus. 4,676,439, 6-30-87, Cl. 241-172.000.
Saito, Katsuyuki: *See*—
Kato, Shinichi; Sasaki, Masahiko; Kato, Tadashi; Kanno, Masahide; Takahashi, Yutaka; and Saito, Katsuyuki, 4,706,118, Cl. 358-98.000.
Saito, Kazuhiko: *See*—
Uda, Youichi; Matsushima, Seiya; Saito, Kazuhiko; Yamamoto, Shoji; and Murakami, Kazuhiro, 4,637,238, Cl. 70-456.00R.
Saito, Kazuo; Matsuzaka, Takashi; China, Mitsuyoshi; Sumitani, Shigeto; Yodo, Masami; and Araya, Hiroyuki, to Kabushiki Kaisha Toshiba. Pulse combustor. 4,642,046, 2-10-87, Cl. 431-354.000.
Saito, Kazuo: *See*—
Kubo, Kanji; Asanuma, Nobuyoshi; Saito, Kazuo; and Yamamoto, Yasuhiko, 4,690,426, Cl. 280-690.000.
Saito, Kazuta: *See*—
Ando, Masatoshi; Mochizuki, Hiromine; and Saito, Kazuta, 4,639,270, Cl. 106-21.000.
Saito, Kazuyoshi; Iida, Taketoshi; Shirasaka, Toshio; and Takemura, Yasuhiko, to Tokyo Shibaura Denki Kabushiki Kaisha. Ultrasonic imaging apparatus. 4,665,924, 5-19-87, Cl. 128-660.000.
Saito, Keichiro: *See*—
Itaba, Yasushi; Yoshino, Tadao; Yoshifuji, Yutaka; Saito, Keichiro; and Tabuchi, Jyoichi, 4,636,340, Cl. 264-22.000.
Itaba, Yasushi; Yoshino, Tadao; Yoshifuji, Yutaka; Saito, Keichiro; and Tabuchi, Jyoichi, 4,673,619, Cl. 428-338.000.
Itaba, Yasushi; Saito, Keichiro; Tabuchi, Jyoichi; and Yoshizawa, Masao, 4,705,714, Cl. 428-215.000.
Saito, Keishi: *See*—
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isamu, 4,689,093, Cl. 437-5.000.
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isamu, 4,702,934, Cl. 427-39.000.
Saito, Keiya: *See*—
Hara, Yasuhiko; Saito, Keiya; Karasaki, Koichi; and Sase, Akira, 4,700,225, Cl. 358-106.000.
Ninomiya, Takanori; Nakagawa, Yasuo; and Saito, Keiya, 4,654,583, Cl. 324-73.0PC.
Saito, Kenichiro; Kanaoka, Chikao; and Aoyama, Shigeyuki, to Aoki Corporation. Air sterilization filter. 4,707,167, 11-17-87, Cl. 55-267.000.
Saito, Kenichiro: *See*—
Heller, Jorge; Skinner, Wilfred A.; Saito, Kenichiro; and Satoh, Susumu, 4,710,497, Cl. 514-221.000.
Saito, Kenji; Eguchi, Ken; Kawada, Haruki; Tomida, Yoshinori; Nishimura, Yukuo; and Nakagiri, Takashi, to Canon Kabushiki Kaisha. Light scattering measuring apparatus. 4,682,897, 7-28-87, Cl. 374-45.000.
Saito, Kenji: *See*—
Yoshimura, Yasuo; Yamauchi, Kunio; and Saito, Kenji, 4,638,366, Cl. 358-228.000.
Saito, Kiichi; Aoki, Masahiro; Ikeda, Noriyasu; Miki, Masayoshi; and Nagayama, Masaaki, to Nippon Stainless Steel Co. Ltd.; and Sumitomo Chemical Company, Limited. Welding material for austenite stainless steel having high Si content and method of application. 4,653,684, 3-31-87, Cl. 228-263.150.
Saito, Kikuji: *See*—
Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Kobayashi, Yoshinao; Ishii, Kazuyoshi; and Hirata, Atsumi, 4,695,904, Cl. 358-342.000.
Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Ishii, Kazuyoshi; Kobayashi, Yoshinao; and Hirata, Atsumi, 4,707,733, Cl. 358-342.000.
Saito, Kimitaka: *See*—
Egami, Tsuneyuki; Saito, Tsutomu; Kohama, Tokio; Saito, Kimitaka; Sato, Kunihiko; and Takahashi, Hiroshi, 4,635,200, Cl. 364-431.050.
Saito, Tsutomu; Egami, Tsuneyuki; Kohama, Tokio; Saito, Kimitaka; Takahashi, Hiroshi; and Sato, Kunihiko, 4,633,840, Cl. 123-489.000.
Saito, Kiyoshi: *See*—
Tajiri, Kazuhiro; Kohmoto, Michio; Saito, Kiyoshi; and Takahira, Hitoshi, 4,639,476, Cl. 523-213.000.
Saito, Koetsu: *See*—
Kawabuchi, Masami; Matsuo, Koji; Muramatsu, Fumio; Fukumoto, Akira; and Saito, Koetsu, 4,699,150, Cl. 128-660.000.
Saito, Koichi; Mino, Yasutake; and Murakami, Ryoichi. Process for phosphating metal surfaces. 4,673,444, 6-16-87, Cl. 148-6.15Z.
Saito, Koichi; Fujimura, Yoshihiko; and Inoue, Nanao, to Fuji Xerox Co., Ltd. Recorder with simultaneous application of thermal and electric energies. 4,710,780, 12-1-87, Cl. 346-1.100.
Saito, Koji, to NEC Corporation. Pipeline processor. 4,644,466, 2-17-87, Cl. 364-200.000.
Saito, Koji; and Okawa, Hiroshi, to Murata Manufacturing Co., Ltd. Cover attaching arrangement for casing of dielectric coaxial resonators. 4,713,633, 12-15-87, Cl. 333-222.000.
Saito, Koji: *See*—
Shimada, Masaaki; Saito, Koji; and Midorikawa, Yoshiaki, 4,705,702, Cl. 427-180.000.
Saito, Kouichi: *See*—
Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yosimi; Saito, Kouichi; and Tamura, Akira, 4,672,253, Cl. 310-269.000.
Saito, Kunio: *See*—
Tashiro, Korefumi; Saito, Kunio; Sato, Hiroshi; and Hori, Takamasa, 4,651,317, Cl. 370-86.000.
Saito, Makato; and Watanabe, Hiroyuki, to Tomy Kogyo Co, Inc. Rolling and walking toy vehicle. 4,676,763, 6-30-87, Cl. 446-230.000.
Saito, Makoto, to Canon Denshi Kabushiki Kaisha. Head unit for preventing head oscillation due to disequilibrium between head and recording medium. 4,661,872, 4-28-87, Cl. 360-104.000.
Saito, Makoto; Inoue, Hiroshi; and Yamamoto, Noboru, to Toa Nenryo Kogyo Kabushiki Kaisha. Process for surface treatment of carbon fiber. 4,704,196, 11-3-87, Cl. 204-130.000.
Saito, Makoto: *See*—
Akihama, Shigeyuki; Saito, Makoto; Kawamoto, Akio; Banno, Tadashi; Umeki, Yoshihiko; and Nakamura, Takumi, 4,700,515, Cl. 52-309.160.
Ohura, Masaki; and Saito, Makoto, 4,636,901, Cl. 360-126.000.
Saito, Mamoru: *See*—
Nakamura, Seiichi; Saito, Mamoru; and Sugawara, Toshiaki, 4,659,506, Cl. 252-399.000.
Saito, Masahiko: *See*—
Hojo, Takeshi; Kawada, Shin-Ichi; Fukano, Michio; Yamamoto, Kenshi; Okamura, Youji; Sato, Kazuteru; Saito, Masahiko; and Hane, Fuyuki, 4,694,696, Cl. 73-497.000.
Saito, Masaji, to Daiwa Seiko Co, Ltd. Adjustable force drag brake device for a fishing reel. 4,702,430, 10-27-87, Cl. 242-84.50A.
Saito, Masaki: *See*—
Oonishi, Akiyoshi; Tanaka, Kenji; Tadeka, Makoto; Konno, Kazuhiko; and Saito, Masaki, 4,694,102, Cl. 562-426.000.
Saito, Masanori: *See*—
Endo, Hiroshi; Arai, Masakazu; Nishikawa, Shigeo; Saito, Masanori; Tanaka, Masahiro; Nagasaki, Kunikazu; and Mathuno, Shigeki, 4,698,191, Cl. 264-50.000.
Saito, Masashi; Shimamura, Tsutau; Henmi, Kojiro; and Kyushima, Hiroki, to Dainippon Screen Mfg. Co., Ltd. Driving mechanism for turning a photosensitive drum in an electrophotographic copying machine. 4,671,645, 6-9-87, Cl. 355-3.00R.
Saito, Masato, to Nippon Electric Co., Ltd. Memory address control apparatus with separate translation look aside buffers for a data processor using a virtual memory technique. 4,700,291, 10-13-87, Cl. 364-200.000.
Saito, Masatoshi: *See*—
Imai, Akio; Okamoto, Yasushi; and Saito, Masatoshi, 4,639,494, Cl. 525-271.000.
Imai, Akio; Okamoto, Yasushi; and Saito, Masatoshi, 4,710,554, Cl. 526-180.000.

Saito, Masayuki, to Nitto Seiko Co., Ltd. Retaining structure for screw fastening unit in an articulated robot. 4,637,776, 1-20-87, Cl. 414-744.00B.

Saito, Masayuki; and Hamada, Mitsuo, to Toray Silicone Co., Ltd. Bonding primer composition. 4,681,636, 7-21-87, Cl. 106-287.150.

Saito, Masayuki; and Oodaira, Hirosi, to Kabushiki Kaisha Toshiba. Print circuit board. 4,704,318, 11-3-87, Cl. 428-209.000.

Saito, Masayuki. *See*—
Ohnishi, Masaru; and Saito, Masayuki, 4,663,636, Cl. 346-76.0PH.
Oodaira, Hirosi; Suzuki, Haruko; Saito, Masayuki; and Ohuchi, Masayuki, 4,694,138, Cl. 219-121.0LM.
Tanaka, Takaharu; Higuchi, Naoki; Saito, Masayuki; and Hashimoto, Masaki, 4,701,210, Cl. 71-98.000.

Saito, Michio. *See*—
Sakai, Yasushi; Tanaka, Koji; Saito, Michio; and Kiyohara, Akio, 4,684,711, Cl. 528-86.000.

Saito, Minoru. *See*—
Hashimoto, Yoshiyuki; Toida, Tomohiro; Sekine, Kazunori; Saito, Minoru; Kawashima, Takuji; and Kuboyama, Morio, 4,645,667, Cl. 424-92.000.
Sato, Hosaku; Ayusawa, Kazutoshi; Saito, Minoru; and Nakayama, Matsue, 4,699,891, Cl. 501-139.000.

Saito, Mitsumasa. *See*—
Matsuzaki, Atsushi; and Saito, Mitsumasa, 4,703,345, Cl. 358-74.000.

Saito, Mitsunori, to Horiba, Ltd. Method of producing infrared image guide. 4,652,288, 3-24-87, Cl. 65-3.110.

Saito, Mitsuo; Aikawa, Takeshi; and Mori, Akio, to Kabushiki Kaisha Toshiba. Memory system. 4,660,181, 4-21-87, Cl. 365-230.000.

Saito, Mitsuo; Aikawa, Takeshi; and Mori, Akio, to Tokyo Shibaura Denki Kabushiki Kaisha. Image display control apparatus. 4,688,032, 8-18-87, Cl. 340-799.000.

Saito, Mitsuo. *See*—
Haga, Minoru; Kaneko, Shinobu; Ikawa, Shoji; Murayama, Kimimasa; Nakamura, Yasuhide; and Saito, Mitsuo, 4,691,551, Cl. 72-88.000.
Kawajiri, Kazuhiro; Tamura, Hiroshi; Shinada, Haruji; Saito, Mitsuo; and Mizobuchi, Yuzo, 4,714,950, Cl. 357-30.000.

Saito, Mitsuru. *See*—
Ohzono, Kohei; Saito, Mitsuru; Hayashi, Kiyotaka; and Fujita, Taiji, 4,673,379, Cl. 474-28.000.
Ohzono, Kohei; Hayashi, Kiyotaka; Saito, Mitsuru; Kato, Masate; and Yoshida, Yoshihiro, 4,679,677, Cl. 192-85.0AA.

Saito, Mituo; Hara, Hidetoshi; and Hanada, Hideto, to OSG Mfg. Co.; N.H.K. Builder Co., Ltd.; and OSG Corporation. Apparatus for rolling a cylindrical blank. 4,646,549, 3-3-87, Cl. 72-88.000.

Saito, Morikuni. *See*—
Yahagi, Masakichi; Igaki, Tetsuo; Yosinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,642,357, Cl. 549-226.000.
Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,665,199, Cl. 549-226.000.
Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Shinji; Kinoshita, Kimiaki; Saito, Morikuni; Yamashita, Toshiyuki; and Nanbu, Morio, 4,695,640, Cl. 549-226.000.

Saito, Morinobu. *See*—
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,673,692, Cl. 514-583.000.
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,695,581, Cl. 514-415.000.

Saito Motors CC., Ltd.: *See*—
Saito, Shosaku, 4,701,972, Cl. 15-250.220.

Saito, Muneo; and Hayakawa, Shoichi, to Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Apparatus for finding the location of a car within a vast area. 4,673,921, 6-16-87, Cl. 340-539.000.

Saito, Naoki; Aoki, Kozo; and Yokota, Yukio, to Fuji Photo Film Co., Ltd. Silver halide color photographic light-sensitive material containing novel cyan dye forming coupler. 4,690,889, 9-1-87, Cl. 430-552.000.

Saito, Naoki. *See*—
Aoki, Kozo; Ono, Michio; Saito, Naoki; and Umemoto, Makoto, 4,686,177, Cl. 430-553.000.

Saito, Naotada. *See*—
Ishida, Akira; Yumen, Akira; and Saito, Naotada, 4,646,144, Cl. 358-75.000.

Saito, Naoyuki; and Ozawa, Motoo, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle. 4,709,774, 12-1-87, Cl. 180-229.000.

Saito, Nobuto. *See*—
Miyajima, Tamotsu; Tanaka, Noriatsu; and Saito, Nobuto, 4,687,791, Cl. 523-161.000.

Saito, Noriaki. *See*—
Higashimura, Toshiaobu; Sawamoto, Mitsuo; Toyoshima, Yoshiki; Kanagawa, Shuuichi; Takahashi, Tsutomu; and Saito, Noriaki, 4,696,988, Cl. 526-220.000.

Saito, Norio. *See*—
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shirai, Takashi, 4,656,264, Cl. 540-353.000.
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shirai, Takashi, 4,665,166, Cl. 540-215.000.
Torii, Sigeru; Uneyama, Kenji; Tanaka, Hideo; Nokami, Junzo; Sasaoka, Michio; Saito, Norio; and Shirai, Takashi, 4,689,411, Cl. 540-358.000.

Saito, Noritoshi. *See*—
Kumasaka, Noriyuki; Fujiwara, Hideo; Otomo, Shigekazu; Yamashita, Takeo; Takayama, Shinji; Saito, Noritoshi; and Kudo, Mitsuhiro, 4,656,547, Cl. 360-126.000.

Saito, Osamu. *See*—
Sumiya, Kenji; and Saito, Osamu, 4,668,587, Cl. 428-411.100.

Saito, Ryozo. *See*—
Izumi, Toshio; Saito, Ryozo; Kato, Yoichi; and Miyata, Hiroshi, 4,691,284, Cl. 364-424.000.

Saito, Sadayuki. *See*—
Yoshida, Takashi; Kimura, Tomoaki; Nishino, Tadashi; and Saito, Sadayuki, 4,679,611, Cl. 164-431.000.

Saito, Satoshi. *See*—
Ando, Sadao; and Saito, Satoshi, 4,667,066, Cl. 200-1.00A.
Ishida, Kunio; Saito, Satoshi; Habuto, Akinaka; Murata, Tadahiko; Oiso, Hisayoshi; Joyama, Norio; and Fujimoto, Kazuhiro, 4,655,125, Cl. 99-355.000.

Saito, Seiichi. *See*—
Takao, Hisoka; Sato, Toshiro; Saito, Seiichi; and Hayashi, Toshinari, 4,707,622, Cl. 307-448.000.

Saito, Seiji; and Ishizawa, Yasuhisa, to Canon Kabushiki Kaisha. Image data processing apparatus and system. 4,675,908, 6-23-87, Cl. 382-41.000.

Saito, Seiji. *See*—
Ayata, Naoki; Saito, Seiji; Suzuki, Hidetoshi; Ozawa, Kunitaka; and Koumura, Noboru, 4,707,713, Cl. 346-140.00R.
Ozawa, Kunitaka; Ayata, Naoki; Suzuki, Hidetoshi; Saito, Seiji; and Koumura, Noboru, 4,694,502, Cl. 382-17.000.

Saito, Shigeaki. *See*—
Koseki, Toshikazu; and Saito, Shigeaki, 4,686,668, Cl. 370-15.000.

Saito, Shigeki; Hosokawa, Takao; and Mae, Masataka, to Murata Manufacturing Co., Ltd. Manufacturing method for an electronic component. 4,708,885, 11-24-87, Cl. 427-58.000.

Saito, Shigeo. *See*—
Onishi, Toshitada; Tateishi, Hiroshi; Koyama, Kenichi; Saito, Shigeo; and Nagata, Masayuki, 4,659,007, Cl. 228-156.000.
Tsunooka, Tsutomu; Saito, Shigeo; Yamamoto, Takashi; and Ito, Hiroshi, 4,675,123, Cl. 252-62.900.

Saito, Shigeru. *See*—
Oikawa, Shoji; Yamagishi, Hiroshi; Saito, Shigeru; Fujita, Tsuyoshi; and Watanabe, Takayoshi, 4,713,494, Cl. 174-68.500.

Saito, Shinichi; Inoue, Hiromichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, to Chisso Corporation. Liquid-crystalline carbonic acid esters and liquid crystal compositions containing same. 4,647,398, 3-3-87, Cl. 252-299.650.

Saito, Shinichi; Inoue, Hiromichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, to Chisso Corporation. Substituted pyridazines. 4,657,695, 4-14-87, Cl. 252-299.610.

Saito, Shinichi; Inoue, Hiromichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, to Chisso Corporation. Liquid crystal compound having methyleneoxy group and composition containing same. 4,668,427, 5-26-87, Cl. 252-299.660.

Saito, Shinichi. *See*—
Inoue, Hiromichi; Saito, Shinichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,676,925, Cl. 252-299.650.
Inoue, Hiromichi; Saito, Shinichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, 4,689,176, Cl. 252-299.650.

Saito, Shinji. *See*—
Ogawa, Hiroshi; Saito, Shinji; and Tamai, Yasuo, 4,634,632, Cl. 428-425.900.
Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, 4,649,081, Cl. 428-447.000.
Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, 4,687,710, Cl. 428-447.000.
Ono, Toshio; Tamai, Yasuo; Mizuno, Chiaki; Ogawa, Hiroshi; and Saito, Shinji, 4,710,421, Cl. 428-213.000.
Tanaka, Sumio; Saito, Shinji; and Atsumi, Shigeru, 4,692,902, Cl. 365-210.000.
Tanaka, Sumio; Saito, Shinji; Atsumi, Shigeru; and Ohtsuka, Nobuaki, 4,694,429, Cl. 365-189.000.

Saito, Shinkichi. *See*—
Teramoto, Mitsutake; Saito, Shinkichi; and Takebayashi, Takamitsu, 4,645,207, Cl. 273-77.00A.

Saito, Shinobu. *See*—
Furukawa, Hiromu; Masumoto, Yuji; and Saito, Shinobu, 4,668,105, Cl. 384-99.000.

Saito, Shintaro; and Ohkuma, Genji, to Nissan Motor Company, Limited. Caster. 4,669,146, 6-2-87, Cl. 16-18.00A.

Saito, Shinzo. *See*—
Yasui, Nobushige; Fukumoto, Muneki; and Saito, Shinzo, 4,667,873, Cl. 229-137.000.

Saito, Shoichi. *See*—
Daigaku, Masaaki; and Saito, Shoichi, 4,658,306, Cl. 360-22.000.

Saito, Shosaku, to Saito Motors CC., Ltd. Rotary window cleaner. 4,701,972, 10-27-87, Cl. 15-250.220.

Saito, Shuichi. *See*—
Ishii, Kenjiro; Satoh, Yutaka; Fukumoto, Fumio; Otsuki, Hajime; Kokura, Yasuhide; and Saito, Shuichi, 4,695,155, Cl. 355-45.000.

Saito, Shunji, to Tokyo Electric Co., Ltd. Floppy disk drive apparatus. 4,644,426, 2-17-87, Cl. 360-71.000.

Saito, Shunji, to Tokyo Electric Co., Ltd. Floppy disk drive apparatus. 4,665,445, 5-12-87, Cl. 360-71.000.

Saito, Shunzi. *See*—
Ichitani, Tetsuro; and Saito, Shunzi, 4,652,950, Cl. 360-105.000.

Saito, Susumu; Suzuki, Michio; Suda, Kyo; Yatsugake, Yasuo; and Tsukada, Kazuya, to Hitachi, Ltd.; and Hitachi Electronics Engineer

ing Co., Ltd. Small particle detection system. 4,685,802, 8-11-87, Cl. 356-339.000.
Saito, Susumu: *See—*
Arimoto, Akira; Saito, Susumu; Tatsuno, Kimio; and Kataoka, Keiji, 4,644,160, Cl. 250-201.000.
Iijima, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu, 4,690,619, Cl. 417-269.000.
Iijima, Takeo; Nomura, Hiroshi; Saito, Susumu; and Echizen, Susumu, 4,715,790, Cl. 417-269.000.
Kataoka, Keiji; and Saito, Susumu, 4,640,573, Cl. 350-6.100.
Nomura, Hiroshi; and Saito, Susumu, 4,676,143, Cl. 92-243.000.
Nomura, Hiroshi; Shitara, Mototaka; Echizen, Susumu; and Saito, Susumu, 4,704,073, Cl. 417-269.000.
Yamamoto, Fumio; Suzuki, Takayoshi; Ikari, Masahiro; Saito, Susumu; Ohmori, Akira; and Yasuhara, Takashi, 4,684,705, Cl. 526-246.000.
Saito, Suzuo, to Kabushiki Kaisha Toshiba. Power converter for AC load. 4,673,858, 6-16-87, Cl. 318-805.000.
Saito, Suzuo: *See—*
Kuroiwa, Akihiko; and Saito, Suzuo, 4,692,855, Cl. 363-95.000.
Saito, Syozo: *See—*
Takizawa, Akio; Suga, Mitsuhiro; and Saito, Syozo, 4,665,406, Cl. 343-903.000.
Saito, Syuichiro; Date, Nobuaki; Tezuka, Nobuo; and Okino, Tadashi, to Canon Kabushiki Kaisha. Image sensing apparatus. 4,689,689, 8-25-87, Cl. 358-228.000.
Saito, Syuichiro; and Okino, Tadashi, to Canon Kabushiki Kaisha. Exposure control apparatus. 4,695,894, 9-22-87, Cl. 358-228.000.
Saito, Syuichiro; and Okino, Tadashi, to Canon Kabushiki Kaisha. Electronic photography system with still and motion picture modes. 4,714,966, 12-22-87, Cl. 358-335.000.
Saito, Tadahiro; and Gotoh, Kunihiko, to Fujitsu Limited. Semiconductor integrated circuit having a test circuit for testing an internal circuit. 4,697,140, 9-29-87, Cl. 324-73.00R.
Saito, Tadao; and Ogawa, Riichi, to Yoshino Kogyosho Co., Ltd. Method for designing and making a tapping stopper. 4,697,722, 10-6-87, Cl. 222-571.000.
Saito, Tadao: *See—*
Adachi, Yoshiharu; Nishimura, Takumi; Saito, Tadao; Shibata, Hirochika; Nakanishi, Nobuyasu; Shirai, Akira; and Noguchi, Noboru, 4,636,010, Cl. 303-115.000.
Nishimura, Takumi; Saito, Tadao; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,700,991, Cl. 303-113.000.
Saito, Taiji; and Kotani, Akira, to Toyota Jidosha Kabushiki Kaisha. Air-cooled type intercooler for a supercharged internal combustion engine. 4,702,079, 10-27-87, Cl. 60-599.000.
Saito, Taisuke: *See—*
Koshi, Minekazu; Fukao, Osamu; Saito, Taisuke; Sakan, Tatsuo; and Nakahara, Seiichi, 4,647,697, Cl. 564-249.000.
Saito, Takaharu: *See—*
Sato, Akira; Sato, Kazuo; Saito, Takaharu; Shima, Junkoh; Mizutani, Kansei; and Mikawa, Toshimasa, 4,713,767, Cl. 364-453.000.
Saito, Takao: *See—*
Motegi, Akio; and Saito, Takao, 4,716,276, Cl. 219-253.000.
Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,647,598, Cl. 522-3.000.
Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, 4,690,788, Cl. 264-22.000.
Saito, Takashi; Nitanda, Hiroshi; Inuzuka, Tsuneki; Tokuhara, Mitsuhiro; and Honda, Haruhisa, to Canon Kabushiki Kaisha. Copy board apparatus. 4,702,586, 10-27-87, Cl. 355-3.00R.
Saito, Takashi: *See—*
Adachi, Hiroyuki; and Saito, Takashi, 4,639,123, Cl. 355-15.000.
Honda, Haruhisa; and Saito, Takashi, 4,709,273, Cl. 358-256.000.
Hosaka, Masao; and Saito, Takashi, 4,711,560, Cl. 355-14.00C.
Kishi, Toru; and Saito, Takashi, 4,669,328, Cl. 74-422.000.
Miki, Tatsuya; Saito, Takashi; and Kishima, Yukihiro, 4,661,735, Cl. 310-112.000.
Shigenobu, Michio; and Saito, Takashi, 4,693,587, Cl. 355-3.0FU.
Takeno, Shozo; Shimizu, Toshio; and Saito, Takashi, 4,680,593, Cl. 346-76.0PH.
Saito, Takayoshi: *See—*
Tsujimura, Osamu; Saito, Takayoshi; and Arai, Tatsuo, 4,693,641, Cl. 407-42.000.
Saito, Takayuki: *See—*
Kumagai, Yuugo; Moribe, Isamu; Saito, Takayuki; Fujita, Toshiyuki; and Kobayashi, Akihiro, 4,686,166, Cl. 430-109.000.
Saito, Takeo; and Nagaoka, Shinji, to Seiko Koki Kabushiki Kaisha. Automatic film sensitivity setting device for cameras. 4,660,949, 4-28-87, Cl. 354-21.000.
Saito, Takeshi: *See—*
Hirooka, Hiroshi; Saito, Takeshi; and Urabe, Hirobumi, 4,676,077, Cl. 68-12.00R.
Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.
Owa, Yutaka; Tanaka, Yoshiro; Saito, Takeshi; and Takeda, Yoshiro, 4,637,759, Cl. 405-270.000.
Saito, Tamio; and Nakai, Toshio, to Kabushiki Kaisha Toshiba. Contact color image sensor. 4,654,536, 3-31-87, Cl. 250-578.000.
Saito, Tamio; and Suzuki, Kouhei, to Tokyo Shibaura Denki Kabushiki Kaisha. Photoelectric conversion element with light shielding conductive layer. 4,672,221, 6-9-87, Cl. 250-578.000.
Saito, Tamio: *See—*
Nakai, Toshio; and Saito, Tamio, 4,663,535, Cl. 250-578.000.
Yoshihara, Kunio; Sudo, Toshio; Iida, Atsuko; Miyagi, Takeshi; Saito, Tamio; and Oe, Shigeyuki, 4,644,093, Cl. 174-36.000.
Saito, Tasuku: *See—*
Kakiuchi, Shinichi; Saito, Tasuku; and Tomita, Seisuke, 4,683,257, Cl. 524-432.000.
Saito, Tatsuya, to Olympus Optical Co., Ltd. Cautery hemostatic unit. 4,708,136, 11-24-87, Cl. 128-303.100.
Saito, Tatsuya, to Kai Cutlery Center Co., Ltd. Safety razor. 4,712,301, 12-15-87, Cl. 30-47.000.
Saito, Teiichiro: *See—*
Shin, Shigeo; Takatsu, Tamao; Saito, Teiichiro; Kikuchi, Akiyoshi; and Nakanishi, Tsuneo, 4,673,123, Cl. 228-263.130.
Saito, Teruo; Asai, Kuniaki; Suzuki, Yasuro; and Kagiya, Kei, to Sumitomo Chemical Company, Limited. Resin composition. 4,640,961, 2-3-87, Cl. 525-444.000.
Saito, Teruo; and Hieda, Kazuo, to Sumitomo Chemical Company, Limited. Polyetherketone resin composition. 4,699,944, 10-13-87, Cl. 524-413.000.
Saito, Tetsuo: *See—*
Takaoka, Takashi; Kobahara, Satoru; and Saito, Tetsuo, 4,682,321, Cl. 369-284.000.
Saito, Tokukazu: *See—*
Tanaka, Hiroshi; and Saito, Tokukazu, 4,638,162, Cl. 250-327.200.
Saito, Tokuyoshi: *See—*
Kawakatsu, Akira; Yuge, Yooji; Hayama, Noriyuki; Saito, Tokuyoshi; and Maeda, Umio, 4,701,663, Cl. 313-112.000.
Yuge, Yooji; Ishizaki, Ariyoshi; Saito, Tokuyoshi; and Ishii, Takeshi, 4,634,919, Cl. 313-113.000.
Saito, Tomotaka, to Kabushiki Kaisha Toshiba. Memory device with a register interchange function. 4,641,278, 2-3-87, Cl. 365-78.000.
Saito, Toshihiko: *See—*
Matsuzaka, Takashi; Saito, Toshihiko; and Hisaoka, Satoshi, 4,687,435, Cl. 431-1.000.
Saito, Toshinori; and Takeuchi, Makoto, to Jeol Ltd. Two-stage pump assembly. 4,681,513, 7-21-87, Cl. 417-2.000.
Saito, Toshinori: *See—*
Aono, Koji; Saito, Toshinori; and Okada, Chiharu, 4,639,361, Cl. 423-347.000.
Saito, Toshio; Yukawa, Kazuo; and Suzuki, Tomio, to Nishihara Environmental Sanitation Research Corporation Limited. Microorganism monitoring apparatus. 4,661,845, 4-28-87, Cl. 358-99.000.
Saito, Toshiyuki: *See—*
Kaneko, Yoshiaki; Saito, Toshiyuki; and Okubo, Naofumi, 4,686,494, Cl. 333-137.000.
Saito, Tsutomu; Egami, Tsuneyuki; Kohama, Tokio; Saito, Kimitaka; Takahashi, Hiroshi; and Sato, Kunihiko, to Nippon Soken, Inc.; and Toyota Jidosha Kabushiki Kaisha. Method for controlling air-fuel ratio in internal combustion engine. 4,633,840, 1-6-87, Cl. 123-489.000.
Saito, Tsutomu; Hasegawa, Yoshimichi; Yoshikawa, Kazuo; and Aoyama, Shigetsune, to Horikiri Spring Mfg. Co., Ltd.; Aichi Steel Works, Ltd.; and Kabushiki Kaisha Toyota Chuo Kenkyusho. Leaf spring construction. 4,637,594, 1-20-87, Cl. 267-47.000.
Saito, Tsutomu: *See—*
Egami, Tsuneyuki; Saito, Tsutomu; Kohama, Tokio; Saito, Kimitaka; Sato, Kunihiko; and Takahashi, Hiroshi, 4,635,200, Cl. 364-431.050.
Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,636,648, Cl. 250-571.000.
Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,682,041, Cl. 250-571.000.
Saito, Tutomu; and Yoneda, Hitoshi, to Kabushiki Kaisha Toshiba. Method and apparatus of electrophotography. 4,694,310, 9-15-87, Cl. 346-153.100.
Saito, Tutomu: *See—*
Hirahara, Shuzo; Yamada, Kiyoshi; Higuchi, Kazuhiko; and Saito, Tutomu, 4,692,812, Cl. 358-285.000.
Yamamoto, Naofumi; Sekizawa, Hidekazu; and Saito, Tutomu, 4,672,433, Cl. 358-80.000.
Saito, Yasuaki, to Murata Manufacturing Co., Ltd. Noise filter. 4,636,752, 1-13-87, Cl. 333-12.000.
Saito, Yasuaki; Harada, Tooru; and Fujino, Masato, to Murata Manufacturing Co., Ltd. Insulating structure for an external terminal. 4,700,015, 10-13-87, Cl. 174-50.000.
Saito, Yasuhisa; Mori, Akira; and Nakamura, Hiroshi, to Sumitomo Chemical Company, Limited. Epoxy resin composition. 4,663,401, 5-5-87, Cl. 525-505.000.
Saito, Yasuhisa; Takagishi, Hisao; Watanabe, Katsuya; Okuno, Kohichi; Kenmei, Junichi; and Kamio, Kunimasa, to Sumitomo Chemical Company, Limited. Thermosettable heat-resistant resin compositions. 4,705,833, 11-10-87, Cl. 525-504.000.
Saito, Yasunori; Ichikawa, Osamu; and Oshima, Toshio, to Sumitomo Electric Industries, Ltd. Waterproof optical fiber cable and method of the production thereof. 4,701,015, 10-20-87, Cl. 350-96.230.
Saito, Yasunori; and DeAngeles, John, to Sumitomo Electric Research Triangle, Inc. Ruggedized optical fiber cable. 4,715,677, 12-29-87, Cl. 350-96.230.
Saito, Yasunori: *See—*
Kitayama, Yoshinobu; Saito, Yasunori; and Okano, Mikihiko, 4,671,610, Cl. 350-96.230.

Saito, Yasuo: *See*—
Shinbo, Shintaro; and Saito, Yasuo, 4,656,561, Cl. 362-30.000.

Saito, Yasutoki: *See*—
Maeda, Masahiko; Nagata, Kazuya; Otani, Taketsugu; and Saito, Yasutoki, 4,671,984, Cl. 428-209.000.

Saito, Yasuziro, to Jidosha Denki Kogyo Kabushiki Kaisha. Link coupling device. 4,695,180, 9-22-87, Cl. 403-114.000.

Saito, Yoshiaki: *See*—
Nishimatsu, Masaharu; Ide, Toshiaki; Saito, Yoshiaki; and Kubota, Yuichi, 4,637,963, Cl. 428-694.000.
Shimozawa, Toru; Nishimatsu, Masaharu; and Saito, Yoshiaki, 4,702,959, Cl. 428-323.000.

Saito, Yoshiharu, to Olympus Optical Co., Ltd. Standard zoom lens system having a large aperture ratio. 4,711,533, 12-8-87, Cl. 350-426.000.

Saito, Yoshihiko: *See*—
Niwa, Kensuke; Fujita, Hisayoshi; Saito, Yoshihiko; Makihara, Hiroshi; Hashimoto, Ritsuo; Hoshi, Younosuke; and Murayama, Katsutoshi, 4,705,654, Cl. 261-128.000.

Saito, Yoshinori: *See*—
Minokami, Tomiyasu; Saito, Yoshinori; and Tsubouchi, Toshiyuki, 4,689,436, Cl. 585-422.000.

Saito, Yoshio; and Seshimoto, Osamu, to Fuji Photo Film Co., Ltd. Probe assembly for an apparatus for measuring ionic activity. 4,655,899, 4-7-87, Cl. 204-412.000.

Saito, Yoshio: *See*—
Nagaya, Hideshi; and Saito, Yoshio, 4,704,651, Cl. 360-127.000.
Seshimoto, Osamu; Nirasawa, Mituharu; Terashima, Masaaki; and Saito, Yoshio, 4,684,445, Cl. 204-1.00T.

Saito, Yuichi: *See*—
Fujita, Hideo; Saito, Yuichi; and Miura, Masatoshi, 4,638,205, Cl. 310-312.000.

Saito, Yukio: *See*—
Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, 4,635,149, Cl. 360-97.000.
Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, 4,641,211, Cl. 360-97.000.
Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, 4,651,240, Cl. 360-97.000.
Okita, Masao; Gunji, Kunihiko; and Saito, Yukio, 4,679,106, Cl. 360-99.000.
Shigenai, Osamu; Saito, Yukio; Gunji, Kunihiko; Shimaoka, Motohiro; Hirose, Yasuyuki; and Okita, Masao, 4,672,490, Cl. 360-105.000.
Shimaoka, Motohiro; and Saito, Yukio, 4,646,176, Cl. 360-97.000.
Shimaoka, Motohiro; and Saito, Yukio, 4,647,996, Cl. 360-97.000.
Shimaoka, Motohiro; and Saito, Yukio, 4,685,011, Cl. 360-97.000.
Shimaoka, Motohiro; and Saito, Yukio, 4,704,525, Cl. 250-239.000.
Shimaoka, Motohiro; and Saito, Yukio, 4,710,829, Cl. 360-97.000.

Saito, Yutaka: *See*—
Mizusaki, Shigenobu; Yoshida, Daisuke; and Saito, Yutaka, 4,701,570, Cl. 568-821.000.
Shirahata, Kunikatsu; Kono, Motomichi; Saito, Yutaka; Kasai, Masaji; Morimoto, Makoto; and Ashizawa, Tadashi, 4,691,024, Cl. 548-422.000.
Yoshiki, Naokazu; Saito, Yutaka; and Haba, Tsuneo, 4,712,407, Cl. 72-68.000.

Saitoh, Atsushi: *See*—
Sugiyama, Hisataka; Shigematsu, Kazuo; Maeda, Takeshi; Saitoh, Atsushi; and Takasugi, Wasao, 4,646,103, Cl. 346-1.100.

Saitoh, Hajime; and Maeda, Morio, to Sumitomo Heavy Industries, Ltd. Electromagnetic-induction heater with magnetic field control. 4,678,883, 7-7-87, Cl. 219-10.61R.

Saitoh, Hiroaki: *See*—
Kashimura, Noritake; and Saitoh, Hiroaki, 4,636,034, Cl. 350-96.210.

Saitoh, Hiromi: *See*—
Togashi, Shigeru; Saitoh, Hiromi; Takahashi, Shigeyuki; Makino, Yasuo; Kakinuma, Mitsuru; Satoh, Shigeo; and Sugiyama, Shigeki, 4,703,628, Cl. 62-135.000.

Saitoh, Hiroshi: *See*—
Itoh, Tsutomu; Tateno, Haruo; Nagasaka, Hideo; Yamamoto, Masahiro; Mitsuyoshi, Yusuke; Matsuno, Susumu; Saitoh, Hiroshi; and Kitoh, Masayuki, 4,670,290, Cl. 427-34.000.

Saitoh, Hiroyuki; Kurata, Masami; and Omori, Takashi, to Fuji Xerox Co., Ltd. Apparatus for reading color image. 4,636,081, 1-13-87, Cl. 356-402.000.

Saitoh, Hiroyuki, and Kurata, Masami, to Fuji Xerox Co., Ltd. Method and apparatus for reading color images using a plurality of color light sources in which one of the light sources is turned on continuously. 4,652,913, 3-24-87, Cl. 358-75.000.

Saitoh, Hiroyuki: *See*—
Ishikawa, Noriyoshi; Takahashi, Haruhiko; Funato, Hitoshi; Leng, Svay; Saitoh, Hiroyuki; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,661,703, Cl. 250-317.100.
Leng, Svay; Saitoh, Hiroyuki; Inui, Toshiharu; Koizumi, Norihiko; Moriguchi, Haruhiko; Omori, Takashi; Kurata, Masami; and Katoh, Yasuo, 4,638,372, Cl. 358-296.000.
Takahashi, Haruhiko; Inui, Toshiharu; Saitoh, Hiroyuki; Ishikawa, Noriyoshi; Funato, Hitoshi; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,709,149, Cl. 250-317.100.

Saitoh, Kazutaka: *See*—
Iwase, Nobuo; Anzai, Kazuo; Shinozaki, Kazuo; Tsuge, Akihiko; Saitoh, Kazutaka; Iyogi, Kiyoshi; Sato, Noboru; and Kasori, Mitsuo, 4,659,611, Cl. 428-209.000.

Saitoh, Keishi; Ohnuki, Yukihiko; and Ohno, Shigeru, to Canon Kabushiki Kaisha. Photoconductive member having light receiving layer of A-Ge/A-Si and C. 4,642,277, 2-10-87, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Light receiving member having photosensitive layer with non-parallel interfaces. 4,650,736, 3-17-87, Cl. 430-57.000.

Saitoh, Keishi; Ohnuki, Yukihiko; and Ohno, Shigeru, to Canon Kabushiki Kaisha. Photoconductive member. 4,666,807, 5-19-87, Cl. 430-58.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Member having substrate and light-receiving layer of A-Si:Ge film and A-Si film with non-parallel interface with substrate. 4,675,263, 6-23-87, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Member having light receiving layer of A-Si: Ge (C,N,O) A-Si/surface antireflection layer with non-parallel interfaces. 4,678,731, 7-7-87, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, to Canon Kabushiki Kaisha. Member having light receiving layer with smoothly connected interfaces. 4,696,881, 9-29-87, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, to Canon Kabushiki Kaisha. Member having light receiving layer with smoothly interconnecting nonparallel interfaces. 4,696,882, 9-29-87, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, to Canon Kabushiki Kaisha. Member having light receiving layer with smoothly connected nonparallel interfaces and surface reflective layer. 4,696,883, 9-29-87, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Member having photosensitive layer with series of smoothly continuous non-parallel interfaces. 4,696,884, 9-29-87, Cl. 430-58.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Member having light receiving layer with nonparallel interfaces and antireflection layer. 4,701,392, 10-20-87, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Member with light receiving layer of A-Si(GE) and A-SI and having plurality of non-parallel interfaces. 4,701,393, 10-20-87, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, to Canon Kabushiki Kaisha. Light-receiving member. 4,705,730, 11-10-87, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, to Canon Kabushiki Kaisha. Member having substrate with protruding surface light receiving layer of amorphous silicon and surface reflective layer. 4,705,731, 11-10-87, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Member having substrate with projecting portions at surface and light receiving layer of amorphous silicon. 4,705,732, 11-10-87, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, to Canon Kabushiki Kaisha. Member having light receiving layer and substrate with overlapping subprojections. 4,705,733, 11-10-87, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, to Canon Kabushiki Kaisha. Member having substrate with irregular surface and light receiving layer of amorphous silicon. 4,705,734, 11-10-87, Cl. 430-57.000.

Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, to Canon Kabushiki Kaisha. Member having substrate with protruding surface portions and light receiving layer with amorphous silicon matrix. 4,705,735, 11-10-87, Cl. 430-57.000.

Saitoh, Keishi: *See*—
Ogawa, Kyosuke; Shirai, Shigeru; Kanbe, Junichiro; Saitoh, Keishi; Osato, Yoichi; and Misumi, Teruo, 4,636,450, Cl. 430-84.000.
Ogawa, Kyosuke; Shirai, Shigeru; Saitoh, Keishi; Misumi, Teruo; and Kanbe, Junichiro, 4,637,972, Cl. 430-84.000.

Saitoh, Koichi: *See*—
Fujimura, Yoshihiko; Saitoh, Koichi; and Suemitsu, Yuji, 4,686,933, Cl. 118-623.000.
Horie, Kiyoshi; Noami, Tsuneo; Masuda, Koji; Saitoh, Koichi; Maruyama, Kazuo; Fujimura, Yoshihiko; Suemitsu, Yuji; and Yamamoto, Toshiro, 4,653,896, Cl. 355-3.0DD.

Saitoh, Kuniyuki: *See*—
Fukuda, Hiroyuki; Shigeta, Masatomo; Kaji, Hisatsugu; and Saitoh, Kuniyuki, 4,686,072, Cl. 264-29.500.
Shigeta, Masatomo; Fukuda, Hiroyuki; Kaji, Hisatsugu; and Saitoh, Kuniyuki, 4,664,988, Cl. 429-44.000.
Shigeta, Masatomo; Saitoh, Kuniyuki; and Fukuda, Hiroyuki, 4,666,755, Cl. 428-188.000.
Shigeta, Masatomo; Saitoh, Kuniyuki; and Fukuda, Hiroyuki, 4,687,607, Cl. 264-29.500.

Saitoh, Kyoichiro; Konishi, Masataka; and Tomita, Koji, to Bristol-Myers Company. Boxazomycin A and B, new antibiotics containing benzoxazole nucleus. 4,690,926, 9-1-87, Cl. 514-269.000.

Saitoh, Kyoichiro: *See*—
Konishi, Masataka; Saitoh, Kyoichiro; Ohkuma, Hiroaki; and Kawaguchi, Hiroshi, 4,675,187, Cl. 424-117.000.
Konishi, Masataka; Saitoh, Kyoichiro; Ohkuma, Hiroaki; and Kawaguchi, Hiroshi, 4,708,872, Cl. 424-115.000.

Saitoh, Makoto: *See*—
Aoyagi, Masaru; and Saitoh, Makoto, 4,679,177, Cl. 367-132.000.

Saitoh, Masahiko; Seki, Gen; Hayashi, Seiichi; and Orihara, Yasunori, to Hitachi, Ltd. Magnetic recording and reproducing apparatus. 4,675,756, 6-23-87, Cl. 360-71.000.

Saitoh, Masanori: *See*—
Kammoto, Yoshiaki; Asai, Takahiro; Kouchiwa, Taira; Saitoh, Masanori; and Asano, Shunji, 4,647,961, Cl. 358-75.000.

Saitoh, Masayuki: *See*—
Tanaka, Takaharu; Saitoh, Masayuki; Hashimoto, Masaki; and Higuchi, Naoki, 4,701,465, Cl. 514-423.000.

Saitoh, Michihiro; Gogami, Takatoshi; and Osada, Toshiyuki, to Showa Electric Wire & Cable Co., Ltd. Automatic inspection system for detecting foreign matter. 4,692,799, 9-8-87, Cl. 358-106.000.

Saitoh, Sadao: *See*—
Morikawa, Masaki; Ohe, Junya; Mishima, Akifumi; and Saitoh, Sadao, 4,659,632, Cl. 428-679.000.

Saitoh, Satoshi: *See*—
Suzuki, Yoshio; Suzuki, Yoshio; Saitoh, Satoshi; Yamamoto, Mitsuoki; and Hosomi, Hisashi, 4,693,637, Cl. 405-224.000.

Saitoh, Shigeru: *See*—
Naruse, Atsushi; Saitoh, Shigeru; and Maruyama, Tomoyuki, 4,702,722, Cl. 464-93.000.

Saitoh, Shiroh: *See*—
Kaneko, Nagao; Nakamura, Nanao; Koyama, Masao; Saitoh, Shiroh; and Honda, Hiroki, 4,651,310, Cl. 367-140.000.

Saitoh, Shouji: *See*—
Hakoyama, Akiyoshi; Saitoh, Shouji; and Sasaki, Akira, 4,672,391, Cl. 346-76.0PH.

Saitoh, Sigeo: *See*—
Itoh, Akio; Sumi, Kazunori; Saitoh, Sigeo; and Sobue, Hideo, 4,703,652, Cl. 73-290.00V.

Saitoh, Tadao: *See*—
Adachi, Yoshiharu; Saitoh, Tadao; and Nishimura, Takumi, 4,636,008, Cl. 303-92.000.

Saitoh, Tadashi: *See*—
Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hitoshi; Isogai, Tokio; Saitoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, 4,643,913, Cl. 427-75.000.

Saitoh, Taichi: *See*—
Kanai, Yasunori; and Saitoh, Taichi, 4,678,942, Cl. 307-455.000.

Saitoh, Takashi, to Technical Products Co., Ltd. Method and apparatus for affixing a ribbon to a bag. 4,660,351, 4-28-87, Cl. 53-417.000.

Saitoh, Takashi; Nozaki, Nobuya; Yamamura, Hideho; and Hayashi, Shinichi, to Hitachi, Ltd.; and Hitachi Electronics Engineering Co., Ltd. Delay circuit including an improved CR integrator circuit. 4,710,654, 12-1-87, Cl. 307-601.000.

Saitoh, Yasunao: *See*—
Okada, Ikuo; Saitoh, Yasunao; Yoshihara, Hideo; and Nakayama, Satoshi, 4,635,252, Cl. 378-34.000.

Saitoh, Yasuo: *See*—
Nambu, Yutaka; Sugawara, Hitosi; and Saitoh, Yasuo, 4,660,298, Cl. 34-30.000.

Saitoo, Harunobu: *See*—
Hanaromo, Masanobu; Hara, Shinichi; Akiyama, Hirosi; Hayashi, Masaaki; Saitoo, Harunobu; and Kurisu, Takumi, 4,685,014, Cl. 360-126.000.

Saitou, Kunio: *See*—
Noro, Shingo; Saitou, Kunio; and Izumimoto, Hideki, 4,661,325, Cl. 422-304.000.

Saitou, Makoto: *See*—
Nishiyama, Nobumasa; Aoi, Hajime; Tamura, Takashi; Ouchi, Yasuhide; and Saitou, Makoto, 4,644,424, Cl. 360-65.000.

Saitou, Masami: *See*—
Tanemura, Mitsuru; Matsunaga, Isao; and Saitou, Masami, 4,698,364, Cl. 514-563.000.

Saitou, Masao, to Kabushiki Kaisha Toshiba. Picture image forming apparatus. 4,661,826, 4-28-87, Cl. 346-76.0PH.

Saitou, Masao, to Kabushiki Kaisha Toshiba. Transfer material holding cassette. 4,663,637, 5-5-87, Cl. 346-76.0PH.

Saitou, Masao, to Kabushiki Kaisha Toshiba. Transfer material holding cassette including core rotation inhibiting means. 4,687,358, 8-18-87, Cl. 400-208.000.

Saitou, Mitsuo: *See*—
Higashi, Akio; Shinada, Haruji; Kawajiri, Kazuhiro; Ono, Yoshihiro; Saitou, Mitsuo; Tamura, Hiroshi; and Ikeda, Mitsuru, 4,694,317, Cl. 357-30.000.

Saitou, Norio; Ozasa, Susumu; Okumura, Masahide; Ooyama, Mitsuo; Komoda, Tsutomu; Harada, Katsuhiro; Fujinami, Minpei; and Iwadate, Kazumi, to Hitachi, Ltd.; and Nippon Telegraph & Telephone Corporation. Electron beam lithography apparatus. 4,692,579, 9-8-87, Cl. 250-492.200.

Saitou, Norio: *See*—
Okumura, Masahide; Matsuzaka, Takashi; Matsuoka, Genya; and Saitou, Norio, 4,701,620, Cl. 250-398.000.

Saitou, Sinichi, to Olympus Optical Co., Ltd. Operating lever apparatus, 4,651,250, 3-17-87, Cl. 360-137.000.

Saitou, Yosio; Kataoka, Takeshi; Takechi, Moriaki; and Matsumoto, Takahiro, to Mitsubishi Denki Kabushiki Kaisha. Superconducting magnet. 4,707,676, 11-17-87, Cl. 335-216.000.

Saiveau, James G.: *See*—
Burelbach, James P.; Kann, William J.; Pan, Yen-Cheng; Saiveau, James G.; and Seidensticker, Ralph W., 4,645,638, Cl. 376-254.000.

Sajben, Johannes O.: *See*—
Brockmann, Rolf; Casper, Clemens; Damsky, Walter; Lippert, Axel; and Sajben, Johannes O., 4,637,857, Cl. 159-47.100.

Sajdak, Robert L.: *See*—
Wehr, Michael A.; and Sajdak, Robert L., 4,635,830, Cl. 222-334.000.
Wehr, Michael A.; and Sajdak, Robert L., 4,690,309, Cl. 222-249.000.

Saji, Yoshiaki: *See*—
Goto, Giichi; and Saji, Yoshiaki, 4,695,572, Cl. 514-278.000.

Sajiki, Kazuaki: *See*—
Nozue, Yasuhiro; Kajiyama, Koichi; and Sajiki, Kazuaki, 4,691,322, Cl. 372-82.000.

Sajima, Yasuo: *See*—
Oda, Yoshio; Asawa, Tatsuro; Sato, Kimihiko; and Sajima, Yasuo, 4,686,026, Cl. 204-252.000.

Sajor, Michael E.; and Seghatoleslami, Asadolah, to AT&T Bell Laboratories. Twisted ring counter with recoverable disallowed states. 4,646,332, 2-24-87, Cl. 377-124.000.

Sajur, Eugene V.: *See*—
Allen, Ronald C.; and Sajur, Eugene V., 4,710,206, Cl. 55-58.000.

Saka, Hiroshi; and Tanaka, Toshihide, to Matsushita Electric Industrial Co., Ltd. Microwave integrated circuit immune to adverse shielding effects. 4,648,128, 3-3-87, Cl. 455-301.000.

Saka, Hiroshi: *See*—
Mekata, Tsuyoshi; Saka, Hiroshi; and Tanaka, Toshihide, 4,707,669, Cl. 331-99.000.
Tanaka, Toshihide; Saka, Hiroshi; Yoshimura, Yoshikazu; and Shiomi, Yasuhumi, 4,679,249, Cl. 455-328.000.

Saka, Kazuhiko; Hisano, Atsushi; Kato, Michitaka; Masaki, Toshimichi; and Nakatsuka, Nobuo, to Omron Tateisi Electronics Co. Pattern outline tracking method and apparatus. 4,703,512, 10-27-87, Cl. 382-22.000.

Saka, Kazuhiko: *See*—
Hisano, Atushi; Saka, Kazuhiko; and Tsukiyama, Noriyuki, 4,654,872, Cl. 382-1.000.
Hisano, Atushi; Yamaguchi, Yoshinori; Masaki, Toshimichi; Saka, Kazuhiko; Nakatsuka, Nobuo; and Kato, Mitsutaka, 4,703,344, Cl. 358-60.000.

Saka, Masakazu, to Sharp Kabushiki Kaisha. Timesharing driver for liquid crystal display device. 4,656,470, 4-7-87, Cl. 340-805.000.

Saka, Nannaji: *See*—
Suh, Nam P.; Saka, Nannaji; and Liou, Ming J., 4,687,274, Cl. 439-426.000.

Sakabe, Busaburo; Hyuga, Kounosuke; and Araki, Kazuhito, to Japan Tobacco Inc. Knife abrasive apparatus for rotary drum shaped cutter. 4,635,402, 1-13-87, Cl. 51-74.0BS.

Sakabe, Busaburo: *See*—
Mine, Taiichi; Sakabe, Busaburo; and Sato, Kiyomi, 4,649,940, Cl. 130-30.00R.

Sakabe, Nobuyuki: *See*—
Miyabayashi, Toshio; Sakabe, Nobuyuki; Udagawa, Yoshiyuki; Enyo, Hiroshi; and Takemura, Yasuhiko, 4,675,362, Cl. 525-208.000.

Sakabe, Yukio; Karaki, Shintaro; and Nakano, Kiyoshi, to Murata Manufacturing Co., Ltd. Monolithic ceramic capacitor, 4,652,967, 3-24-87, Cl. 361-309.000.

Sakabe, Yukio, to Murata Manufacturing Co., Ltd. Monolithic ceramic capacitor. 4,658,328, 4-14-87, Cl. 361-309.000.

Sakabe, Yukio; Nishioka, Goro; and Imanari, Junichi, to Murata Manufacturing Co., Ltd. Dielectric ceramic composition. 4,661,462, 4-28-87, Cl. 501-134.000.

Sakae Ringyo Co., Ltd.: *See*—
Nagashima, Satoshi, 4,642,075, Cl. 474-160.000.

Sakae, Tatsuya: *See*—
Kodama, Masahiro; Sakae, Tatsuya; and Urano, Yoshio, 4,695,967, Cl. 364-521.000.

Sakae Tsushin Kogyo Co., Ltd.: *See*—
Shimoda, Eitaro, 4,716,395, Cl. 338-149.000.

Sakagaito, Yukuo; Yonemochi, Katsutoshi; Kawata, Koichi; and Masaki, Takeshi, to Matsushita Electric Industrial Co., Ltd. Polygon mirror construction. 4,691,998, 9-8-87, Cl. 350-616.000.

Sakagaito, Yukuo: *See*—
Masaki, Takeshi; Kawata, Koichi; Sakagaito, Yukuo; Yamaguchi, Katsumasa; Kinoshiro, Hiromichi; and Toba, Hiroto, 4,701,591, Cl. 219-121.0LT.

Sakagami, Atsushi: *See*—
Suzuki, Tadashi; Futami, Toru; and Sakagami, Atsushi, 4,674,084, Cl. 370-85.000.
Suzuki, Tadashi; Futami, Toru; and Sakagami, Atsushi, 4,694,294, Cl. 340-825.140.
Suzuki, Tadashi; Tomikashi, Minoru; Futami, Toru; and Sakagami, Atsushi, 4,706,245, Cl. 370-85.000.

Sakagami, Shigeru: *See*—
Shibuki, Osamu; Matsuyama, Noboru; Nagasawa, Yoshiaki; Kawai, Katsuhiro; Sakagami, Shigeru; and Onoyama, Toshiaki, 4,641,065, Cl. 318-135.000.

Sakagami, Teruo; Fujii, Yasufumi; and Murayama, Naohiro, to Kureha Kagaku Kogyo Kabushiki Kaisha. Lens materials of high refractive indexes. 4,644,025, 2-17-87, Cl. 526-261.000.

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roethylene film and production process thereof. 4,650,833, 3-17-87, Cl. 525-356.000.
Sakagami, Teruo; Fujii, Yasufumi; and Murayama, Naohiro, to Kureha Kagaku Kogyo Kabushiki Kaisha. Halogen-containing resin lens material. 4,704,006, 11-3-87, Cl. 350-409.000.
Sakagami, Toshinori: *See*—
Minamizaki, Yoshihiro; Miki, Yoshio; Yamamoto, Takayuki; Ito, Akira; and Sakagami, Toshinori, 4,699,938, Cl. 524-271.000.
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, to Hitachi Zosen Corporation. Method and device for controlling thin metallic strip continuous casting apparatus. 4,674,556, 6-23-87, Cl. 164-454.000.
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, to Hitachi Zosen Corporation. Apparatus for continuous casting of thin metallic plate. 4,694,885, 9-22-87, Cl. 164-416.000.
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Sakaguchi, Haruo; Suehiro, Teruyoshi; Terada, Kohsuke; Ueda, Minoru; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, to Hitachi Zosen Corporation. Apparatus and method for continuously producing thin metallic strip. 4,703,791, 11-3-87, Cl. 164-417.000.
Sakaguchi, Hiroaki: *See*—
Aramaki, Minoru; and Sakaguchi, Hiroaki, 4,711,949, Cl. 525-356.000.
Sakaguchi, Isao; and Kawaide, Tatsuo, to Hitachi, Ltd. Method of orienting magnetic disc by magnetic field. 4,696,831, 9-29-87, Cl. 427-48.000.
Sakaguchi, Kanji: *See*—
Hayashi, Souichi; Miyake, Johji; Koyama, Mototsugu; and Sakaguchi, Kanji, 4,695,329, Cl. 148-3.000.
Sakaguchi, Keizaburo, to Sakaguchi Plastic Industrial Co., Ltd. Synthetic resin holder. 4,653,716, 3-31-87, Cl. 248-316.500.
Sakaguchi, Kenichi: *See*—
Takeda, Hiroshi; Oshima, Noritsugu; Kubo, Tateo; and Sakaguchi, Kenichi, 4,640,673, Cl. 425-297.000.
Sakaguchi, Masaaki: *See*—
Chikamasa, Hiroshi; and Sakaguchi, Masaaki, 4,679,744, Cl. 242-67.30R.
Sakaguchi, Masahiro: *See*—
Ijichi, Masakatsu; Uehara, Yutaka; Sakaguchi, Masahiro; and Imamura, Shinichi, 4,706,607, Cl. 119-16.000.
Sakaguchi, Minoru: *See*—
Suzuyama, Hiroshi; and Sakaguchi, Minoru, 4,651,255, Cl. 361-341.000.
Sakaguchi, Mitsuhito: *See*—
Ohta, Yoshinori; Sakuma, Isamu; Hibiya, Taketoshi; and Sakaguchi, Mitsuhito, 4,686,678, Cl. 372-33.000.
Sakaguchi Plastic Industrial Co., Ltd.: *See*—
Sakaguchi, Keizaburo, 4,653,716, Cl. 248-316.500.
Sakaguchi, Shinji: *See*—
Kataoka, Shinzi; Shinagawa, Yukio; and Sakaguchi, Shinji, 4,659,607, Cl. 428-143.000.
Sakaguchi, Shozo; and Yamakoshi, Mutsuro, to Jidosha Kiki Co., Ltd. Air bleeder for fluid system. 4,664,451, 5-12-87, Cl. 303-6.00C.
Sakaguchi, Shuichi: *See*—
Iinuma, Hiroshi; Sakaguchi, Shuichi; and Suzuki, Takashi, 4,644,419, Cl. 360-46.000.
Sakaguchi, Suguru: *See*—
Satoh, Ryohei; Oshima, Muneo; Tanaka, Minoru; Sakaguchi, Suguru; Murata, Akira; and Hirota, Kazuo, 4,673,772, Cl. 174-52.0FP.
Sakaguchi, Takahiro, to Teac Corporation. Magnetic data transfer apparatus having a disk drive mechanism protected against leakage flux. 4,658,311, 4-14-87, Cl. 360-97.000.
Sakaguchi, Takahiro, to Teac Corporation. Drive pin for a data transfer apparatus with a disklike record medium. 4,700,245, 10-13-87, Cl. 360-97.000.
Sakaguchi, Takahiro: *See*—
Enami, Katsuya; Tsuyuguchi, Hiroshi; and Sakaguchi, Takahiro, 4,677,359, Cl. 318-69.00G.
Enami, Katsuya; Tsuyuguchi, Hiroshi; and Sakaguchi, Takahiro, 4,697,129, Cl. 318-696.000.
Sakai, Yoshiaki; Tsuyuguchi, Hiroshi; Noda, Yasushi; and Sakaguchi, Takahiro, 4,675,763, Cl. 360-97.000.
Sakaguchi, Toshio: *See*—
Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358.236.000.
Sakaguchi, Ushio; Nakano, Masahiro; and Uchida, Mitsukuni, to Takasago Medical Industry, Co., Ltd. Subsidiary device for suturing an intestine. 4,705,039, 11-10-87, Cl. 128-334.00C.
Sakaguchi, Yasuo: *See*—
Tegge, Bruce R.; Weary, Frank G.; and Sakaguchi, Yasuo, 4,713,413, Cl. 525-54.000.
Sakaguchi, Yoichi: *See*—
Ohtsuga, Hisao; Morinaga, Akio; Sakaguchi, Yoichi; Hyodo, Masakatsu; and Yagi, Isaburo, 4,684,556, Cl. 428-36.000.
Sakaguchi, Yoshihiro: *See*—
Kuwamoto, Hiroshi; Nagamori, Hiroyuki; Mukai, Takashi; Iwado, Shuichi; and Sakaguchi, Yoshihiro, 4,663,061, Cl. 252-32.500.
Sakaguchi, Yoshikazu: *See*—
Ogasawara, Tsunehiko; Arakawa, Yoshichika; Sumiya, Koji; and Sakaguchi, Yoshikazu, 4,633,739, Cl. 74-869.000.
Sumiya, Koji; Sakaguchi, Yoshikazu; Taniguchi, Takuji; Taga, Yutaka; and Shindo, Yoshio, 4,697,474, Cl. 74-733.000.
Sakaguchi, Yuji: and Terahama, Tatuo, to Bridgestone Corporation. Driving device having tactility. 4,689,538, 8-25-87, Cl. 318-568.000.
Sakaguchi, Yuji: *See*—
Takagi, Takeo; Sakaguchi, Yuji; and Imamura, Yoshinori, 4,664,232, Cl. 188-74.000.
Sakaguchi, Yukihiko, to Fuji Photo Film Co., Ltd. Heat developable light-sensitive material. 4,639,414, 1-27-87, Cl. 430-550.000.
Sakai, Akira: *See*—
Watanabe, Hironobu; and Sakai, Akira, 4,644,110, Cl. 200-5.00R.
Sakai Chemical Industry Co., Ltd.: *See*—
Abe, Kazunobu; Aoki, Masashi; Rikimaru, Hiroaki; Ito, Takeshi; Hidaka, Kazuhisa; and Segawa, Kayoko, 4,643,984, Cl. 501-134.000.
Andoh, Haruo; and Matsumoto, Seiji, 4,693,931, Cl. 428-328.000.
Sakai & Co., Ltd.: *See*—
Uchiyama, Yuki, 4,690,278, Cl. 206-387.000.
Sakai, Eiichi: *See*—
Yamazaki, Toshinori; Sakai, Eiichi; and Nomori, Hiroyuki, 4,668,599, Cl. 430-84.000.
Yamazaki, Toshinori; Sakai, Eiichi; Nakanishi, Tatsuo; and Nomori, Hiroyuki, 4,677,044, Cl. 430-58.000.
Sakai, Etsuo; Nishioka, Asaaki; Watanabe, Kiyosi; and Mino, Iwao, to Denki Kagaku Kogyo Kabushiki Kaisha. Mold assembly. 4,708,626, 11-24-87, Cl. 425-398.000.
Sakai, Haruo; and Hiejima, Kiyoshi, to Sanyo Electric Co., Ltd. Electronic control cooking apparatus. 4,705,926, 11-10-87, Cl. 219-10.55B.
Sakai, Hideaki; and Kanai, Tadashi, to Shiratori Pharmaceutical Co., Ltd.; and Suntory Limited. Preparation process of (6R)-tetrahydro-L-biopterin. 4,713,454, 12-15-87, Cl. 544-258.000.
Sakai, Hideo; Mizutani, Tetsuya; and Yoshimi, Takeo, to Hitachi, Ltd. Method of forming silicon nitride film and product. 4,699,825, 10-13-87, Cl. 428-337.000.
Sakai, Hideo: *See*—
Shirasu, Chikao; Sakai, Hideo; and Innami, Yasutaka, 4,653,801, Cl. 296-202.000.
Sakai, Hiroaki, to Matsushita Electric Industrial Co., Ltd. Multi-pen recording device. 4,673,954, 6-16-87, Cl. 346-139.00R.
Sakai, Hirou; and Kawamura, Toshihide, to Stanley Electric Co., Ltd. Light-emitting diode. 4,698,730, 10-6-87, Cl. 362-311.000.
Sakai, Hiroyuki: *See*—
Ohmi, Shigeaki; Shingaki, Seiichi; Sakai, Hiroyuki; and Asahara, Yoshiyuki, 4,640,699, Cl. 65-3.150.
Sakai, Isao: *See*—
Mizoguchi, Tetsuhiko; Inomata, Koichiro; Higuchi, Toru; and Sakai, Isao, 4,664,724, Cl. 148-302.000.
Sakai, Itaru: *See*—
Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, 4,678,856, Cl. 560-24.000.
Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, 4,699,994, Cl. 560-025.000.
Sakai, Jun: *See*—
Sakakibara, Kenji; Akao, Michitoshi; Hayashi, Shigeyuki; and Sakai, Jun, 4,714,943, Cl. 355-27.000.
Sakai, Junichi; Itoh, Fujio; and Watanabe, Seiichi, to Matsushita Electric Industrial Co., Ltd. Floppy disc drive unit. 4,656,533, 4-7-87, Cl. 360-65.000.
Sakai, Kango; and Shimokawa, Yasuo, to Nippon Steel Corporation. Method for supporting a metal strip under static gas pressure. 4,673,447, 6-16-87, Cl. 148-156.000.
Sakai, Katsuo: *See*—
Adachi, Tsukasa; Shinguryo, Satoshi; Furuta, Hideya; Sakai, Yoshihiro; Ikeda, Itsuo; and Sakai, Katsuo, 4,655,579, Cl. 355-4.00.
Koizumi, Yutaka; Furuta, Hideya; Sakai, Yoshihiro; Mamizuka, Mitsuru; Adachi, Tsukasa; Ikeda, Itsuo; and Sakai, Katsuo, 4,664,501, Cl. 355-4.000.
Sakai, Yoshihiro; Ikeda, Ituso; Sakai, Katsuo; Adachi, Tsukasa; Shinguryo, Satoshi; and Furuta, Hideya, 4,690,541, Cl. 355-4.00.
Sakai, Kazunori: *See*—
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,670,852, Cl. 364-565.000.
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,672,547, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,651,281, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,665,490, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,666,218, Cl. 303-106.000.
Sakai, Kazuo; Matsushima, Yuichi; Akiba, Shigeyuki; and Utaka, Katsuyuki, to Kokusai Denshin Denwa Kabushiki Kaisha. Multi-layered semi-conductor photodetector. 4,682,196, 7-21-87, Cl. 357-30.000.
Sakai, Kazuo: *See*—
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,648,096, Cl. 372-96.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,653,058, Cl. 372-50.000.

Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,653,059, Cl. 372-50.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,660,934, Cl. 350-320.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,665,527, Cl. 372-96.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,701,930, Cl. 372-96.000.

Sakai, Keijiro: *See*—
Mutoh, Nobuyoshi; Sakai, Keijiro; Suzuki, Toshio; Ueda, Akiteru; Nandoh, Kenji; and Okajima, Ikuo, 4,688,162, Cl. 363-80.000.

Sakai, Kirk; and Quick, Timothy W., to Schering-Plough Corporation. Urea stabilized with a lactone in various pharmaceutical and cosmetic preparations. 4,672,078, 6-9-87, Cl. 514-588.000.

Sakai, Kiyoharu, to Brother Kogyo Kabushiki Kaisha. Wire drive circuit in dot-matrix printer. 4,637,742, 1-20-87, Cl. 400-121.000.

Sakai, Kiyomi: *See*—
Shirafuji, Tamio; Sakai, Kiyomi; and Kawata, Itaru, 4,670,612, Cl. 568-899.000.
Shirafuji, Tamio; Sakai, Kiyomi; and Hirose, Ken-ichi, 4,716,253, Cl. 568-895.000.

Sakai, Kiyoshi: *See*—
Fujimura, Naoto; Sakai, Kiyoshi; and Okunuki, Masami, 4,663,259, Cl. 430-58.000.

Sakai, Kohzo: *See*—
Hayashi, Atsushi; Kuwabara, Kiyoharu; Sakai, Kohzo; and Ishino, Toshihiro, 4,705,763, Cl. 501-103.000.

Sakai, Koichi: *See*—
Okumoto, Tadaoki; Nakata, Rikizo; Ichikawa, Masayoshi; Tsuchihashi, Masaaki; and Sakai, Koichi, 4,645,788, Cl. 524-308.000.

Sakai, Kunihide, to Victor Company of Japan, Ltd. Magnetic head for perpendicular magnetization. 4,639,810, 1-27-87, Cl. 360-125.000.

Sakai, Kunito; Matsuda, Sadamu; and Takahama, Takashi, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor device and manufacturing method therefor. 4,697,203, 9-29-87, Cl. 357-72.000.

Sakai, Masaaki; and Yamagata, Seiichi, to Toray Industries, Inc. Apparatus for manufacturing double connecting pile fabric. 4,667,703, 5-26-87, Cl. 139-20.000.

Sakai, Masaaki: *See*—
Nishimura, Kazuhisa; Yoshihiro, Mitsugu; Sakai, Masaaki; and Hataoka, Seiichi, 4,698,703, Cl. 360-73.000.

Sakai, Masahiko: *See*—
Ito, Yuuji; Shibata, Tadahiko; Sakai, Masahiko; Ota, Yukio; Kondo, Naohiko; and Matuyama, Harukazu, 4,659,323, Cl. 493-457.000.

Sakai, Masayuki: *See*—
Kurihayashi, Kiyoshi; Sakai, Masayuki; Monji, Hideto; Aoki, Masaki; Okinaka, Hideyuki; and Torii, Hideo, 4,685,948, Cl. 65-26.000.
Tomunari, Kenichi; Inoue, Hiroshi; and Sakai, Masayuki, 4,668,752, Cl. 526-348.200.

Sakai, Mikio; and Naka, Masaru, to Nissan Motor Co., Ltd. Method of producing silicon carbide base sintered material containing boron as sintering assistant. 4,663,105, 5-5-87, Cl. 264-66.000.

Sakai, Minoru: *See*—
Seike, Noboru; Terauchi, Masatoshi; and Sakai, Minoru, 4,653,475, Cl. 128-4.000.
Takahashi, Osamu; and Sakai, Minoru, 4,649,095, Cl. 430-216.000.

Sakai, Mitsugu, to Olympus Optical Co., Ltd. Index pulse generator capable of producing an index pulse of stabilized nature for use in optical information recording and reproduction systems. 4,674,072, 6-16-87, Cl. 369-52.000.

Sakai, Mitsugu; and Yoshikawa, Shoji, to Olympus Optical Co., Ltd. Modulated light source with power stabilized according to data signal. 4,692,606, 9-8-87, Cl. 250-205.000.

Sakai, Mitsugu, to Olympus Optical Company Limited. Light source with power stabilizer having temperature compensation. 4,700,057, 10-13-87, Cl. 250-205.000.

Sakai, Mituya: *See*—
Maeda, Akiya; Sakai, Mituya; Masaka, Yukinobu; Nomura, Masahiro; Yamada, Yasuo; and Tatsuhama, Tetsuro, 4,711,501, Cl. 299-21.000.

Sakai, Mutsuo, to Sanyo Electric Co., Ltd. Digital signal receiver. 4,686,706, 8-11-87, Cl. 455-186.000.

Sakai, Noboru: *See*—
Inoue, Fumio; Eto, Masahiro; Shimaoka, Shoei; and Sakai, Noboru, 4,641,195, Cl. 358-242.000.

Sakai, Noriyuki: *See*—
Morishita, Tsuyoshi; Osaki, Sigemi; Sakai, Noriyuki; Shimizu, Yukio; Konishi, Toshiharu; and Sakuramoto, Takahumi, 4,670,215, Cl. 419-9.000.
Morishita, Tsuyoshi; Osaki, Sigemi; and Sakai, Noriyuki, 4,690,220, Cl. 228-194.000.
Morishita, Tuyoshi; Kawado, Yasuhumi; Osaki, Sigemi; and Sakai, Noriyuki, 4,646,811, Cl. 164-103.000.

Sakai, Osamu: *See*—
Shinoda, Takashi; and Sakai, Osamu, 4,703,453, Cl. 365-104.000.

Sakai, Ryo: *See*—
Itoh, Fumihiko; Usagawa, Tatumi; Sakai, Ryo; and Yamamoto, Yasakao, 4,635,615, Cl. 126-273.00A.
Itoh, Fumihiko; Usagawa, Tatumi; Sakai, Ryo; and Yamamoto, Yasakao, 4,666,113, Cl. 248-201.000.

Sakai, Seiichi: *See*—
Takahashi, Masahide; Sakai, Seiichi; Masada, Osamu; Ukawa, Masaru; and Onishi, Hamao, 4,636,931, Cl. 363-71.000.

Sakai, Shigeru; and Kudo, Kazunori, to Kabushiki Kaisha Kenwood. Apparatus for controlling transmitter-receiver. 4,716,576, 12-29-87, Cl. 375-5.000.

Sakai, Shigeyuki: *See*—
Uehara, Kiyohiro; and Sakai, Shigeyuki, 4,654,965, Cl. 29-830.000.

Sakai, Shinji; Kawabata, Takashi; and Harada, Yoshihito, to Canon Kabushiki Kaisha. Code plate. 4,639,108, 1-27-87, Cl. 354-289.100.

Sakai, Shinji; Shinoda, Nobuhiko; Hosoe, Kazuya; and Kinoshita, Takao, to Canon Kabushiki Kaisha. Focus detecting system. 4,641,942, 2-10-87, Cl. 354-406.000.

Sakai, Shinji; and Hashimoto, Seiji, to Canon Kabushiki Kaisha. Image pickup apparatus. 4,644,403, 2-17-87, Cl. 358-213.000.

Sakai, Shinji; and Kawabata, Takashi, to Canon Kabushiki Kaisha. Automatic focusing device. 4,681,419, 7-21-87, Cl. 354-402.000.

Sakai, Shinji; and Kawabata, Takashi, to Canon Kabushiki Kaisha. Automatic focusing device having a hunting prevention circuit. 4,687,915, 8-18-87, Cl. 250-201.000.

Sakai, Shinji; and Kawabata, Takashi, to Canon Kabushiki Kaisha. Camera system. 4,688,914, 8-25-87, Cl. 354-173.110.

Sakai, Shinji: *See*—
Hashimoto, Seiji; and Sakai, Shinji, 4,660,075, Cl. 358-29.000.
Kinoshita, Takao; Sakai, Shinji; Suga, Akira; and Tojo, Akihiko, 4,647,978, Cl. 358-213.000.
Kinoshita, Takao; Sakai, Shinji; Suga, Akira; and Tojo, Akihiko, 4,663,669, Cl. 358-213.190.
Tsunekawa, Tokuichi; Hosoe, Kazuya; Kinoshita, Takao; Kawabata, Takashi; Sakai, Shinji; and Taguchi, Tatsuya, 4,647,174, Cl. 354-402.000.

Sakai, Shino; and Nishikawa, Masao, to Honda Giken Kogyo Kabushiki Kaisha. Method of controlling creep preventing device for vehicle equipment with automatic transmission. 4,709,792, 12-1-87, Cl. 192-0.044.

Sakai, Shinsuke: *See*—
Tsuruta, Shoji; Minami, Hideaki; Ohhata, Yoshinori; and Sakai, Shinsuke, 4,699,118, Cl. 125-11.00R.

Sakai, Shinzo: *See*—
Nishikawa, Masao; Sakai, Shinzo; and Miyake, Junichi, 4,633,737, Cl. 74-866.000.
Nishikawa, Masao; Sakai, Shinzo; and Sakurai, Yoshimi, 4,637,278, Cl. 74-866.000.

Sakai, Shoji; Noda, Koshi; Nakata, Kazuhiro; and Takashima, Shingo, to Murata Kikai Kabushiki Kaisha. Resilient shaft coupling device. 4,662,859, 5-5-87, Cl. 464-88.000.

Sakai, Shoji; and Noda, Koshi, to Murata Kikai Kabushiki Kaisha. Roller of draft apparatus. 4,691,415, 9-8-87, Cl. 19-262.000.

Sakai, Shunji: *See*—
Iwabuchi, Toshiyuki; Sakai, Shunji; Uchiyama, Akira; Sakamoto, Masaaki; and Masaki, Yuichi, 4,672,219, Cl. 250-578.000.

Sakai, Shuzo; Shibuya, Takashi; and Miyake, Toshio, to Hayashibara Seibutsu Kagaku Kenkyujo Kabushiki Kaisha. Crystalline maltopentaose and process for producing the same. 4,652,640, 3-24-87, Cl. 536-124.000.

Sakai, Souichi: *See*—
Yamano, Masaru; Kuwano, Yukinori; Nakaco, Shoichi; Matsuoka, Tsugufumi; Sakai, Souichi; Yagi, Hirosato; and Okada, Nobuhiro, 4,670,293, Cl. 427-39.000.

Sakai, Tadaaki: Method of freezing foods. 4,689,963, 9-1-87, Cl. 62-64.000.

Sakai, Tadao, to Roland Kabushiki Kaisha. Key-touch value control device of electronic key-type musical instrument. 4,633,750, 1-6-87, Cl. 84-1.100.

Sakai, Tadashi, to Kabushiki Kaisha Saikousha. Wire lock. 4,665,724, 5-19-87, Cl. 70-30.000.

Sakai, Tadashi; and Suyama, Tomio, to Hoshizaki Electric Co., Ltd. Modular water spraying device for an ice making machine. 4,669,276, 6-2-87, Cl. 62-347.000.

Sakai, Tadashi: *See*—
Oki, Ryuji; and Sakai, Tadashi, 4,686,708, Cl. 455-280.000.

Sakai, Takahiro; and Minemoto, Isamu, to Toyota Jidosha Kabushiki Kaisha. Transmission control system with separate shift timing control pressure supply passage. 4,688,451, 8-25-87, Cl. 74-867.000.

Sakai, Takamasa, to Dainippon Screen Mfg. Co., Ltd. Feeder of oxygen gas containing steam. 4,693,208, 9-15-87, Cl. 118-724.000.

Sakai, Takami, to Kabushiki Kaisha Toshiba. Method and system for controlling an AC-DC converter system. 4,639,848, 1-27-87, Cl. 363-51.000.

Sakai, Takami, to Kabushiki Kaisha Toshiba. Control apparatus of AC-DC power converter. 4,680,692, 7-14-87, Cl. 363-35.000.

Sakai, Takao: *See*—
Fuji, Masaki; Sakai, Takao; Sakurai, Hideo; and Yamamoto, Yoshiharu, 4,701,505, Cl. 526-125.000.
Hamaguri, Kenji; and Sakai, Takao, 4,714,341, Cl. 356-41.000.

Sakai, Takashi: *See*—
Kanda, Hisashi; Narie, Susumu; Morifuji, Kazuhiko; Kawada, Yuzo; Sakai, Takashi; Kawada, Takeshi; Shimada, Katsura; and Tsuneda, Mitsuo, 4,670,953, Cl. 28-185.000.
Yamano, Masaru; Sakai, Takashi; Furukawa, Nobuhiro; Murakami, Shuzo; and Matsumoto, Takanao, 4,636,445, Cl. 429-53.000.

Sakai, Takuo; and Katsuragi, Tohoru. Process for preparing pectin from plant tissues. 4,686,187, 8-11-87, Cl. 435-275.000.

Sakai, Terumasa: *See*—
Torigoe, Makoto; Suzuki, Akiyoshi; and Sakai, Terumasa, 4,711,568, Cl. 355-68.000.

Sakai, Tetsuo: *See*—
Wada, Masatoshi; and Sakai, Tetsuo, 4,692,662, Cl. 313-493.000.

Sakai, Tokuji: *See*—
Hirose, Isao; Amemiya, Tamio; and Sakai, Tokuji, 4,709,088, Cl. 562-414.000.
Sumitani, Koji; Sakai, Tokuji; Yamasaki, Yasuo; and Onodera, Tamio, 4,695,667, Cl. 585-481.000.
Sakai, Toshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Bearing bush for center pins on a piano action. 4,673,515, 6-16-87, Cl. 252-12.000.
Sakai, Toshihiko; and Narita, Yuji, to Sumitomo Metal Industries, Ltd. Repairing apparatus for furnace wall. 4,649,858, 3-17-87, Cl. 118-697.000.
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Sakai, Yasuhito, to Fuji Jukogyo Kabushiki Kaisha. Hydraulic line pressure control system for an infinitely variable transmission. 4,638,689, 1-27-87, Cl. 74-866.000.
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Sakai, Yasuhito, to Fuji Jukogyo Kabushiki Kaisha. Control system for a continuously variable transmission. 4,704,097, 11-3-87, Cl. 474-28.000.
Sakai, Yasuhito, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the pressure of oil in a system for a continuously variable transmission. 4,708,694, 11-24-87, Cl. 474-28.000.
Sakai, Yasuhito, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the pressure of oil in a system for a continuously variable transmission. 4,710,151, 12-1-87, Cl. 474-28.000.
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Sakai, Yasuo; and Hirata, Miyoshi, to Daiichi Pure Chemicals Co., Ltd. Particles for inhibiting non-specific immunoreaction. 4,680,274, 7-14-87, Cl. 436-512.000.
Sakai, Yasushi; Tanaka, Koji; Saito, Michio; and Kiyohara, Akio, to Toyo Soda Manufacturing Co., Ltd. Process for producing a hydrocarbon resin. 4,684,711, 8-4-87, Cl. 528-86.000.
Sakai, Yasushi: *See*—
Asahi, Tetsuya; Kaneko, Hiroshi; Sakai, Yasushi; Kiyohara, Akio; and Iwashita, Tooru, 4,680,349, Cl. 526-62.000.
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Sakai, Yoshiaki; and Tsuyuguchi, Hiroshi, to Teac Coporation. Power saving circuit arrangement for data transfer apparatus with a disklike record medium. 4,691,255, 9-1-87, Cl. 360-69.000.
Sakai, Yoshiaki: *See*—
Kitahara, Toshihiro; Sakai, Yoshiaki; Kobayashi, Kou; and Kikuchi, Satoru, 4,709,783, Cl. 360-99.000.
Morita, Tsutomu; Toma, Shozo; and Sakai, Yoshiaki, 4,651,235, Cl. 360-46.000.
Tsuchiya, Isamu; Kawasaki, Tsutomu; and Sakai, Yoshiaki, 4,694,361, Cl. 360-97.000.
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Sakai, Yoshiharo; Ikeda, Itsuo; Sakai, Katsuo; Adachi, Tsukasa; Shinguryo, Satoshi; and Furuta, Hideya, to Ricoh Company, Ltd. Color electrophotographic copying process. 4,690,541, 9-1-87, Cl. 355-4.000.
Sakai, Yoshihiro: *See*—
Adachi, Tsukasa; Shinguryo, Satoshi; Furuta, Hideya; Sakai, Yoshihiro; Ikeda, Itsuo; and Sakai, Katsuo, 4,655,579, Cl. 355-4.000.
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Sakai, Yoshio; Nagai, Ryo; Yamamoto, Shuichi; Nakanura, Hideo; and Noguchi, Kouki, to Hitachi, Ltd. Read-only menory. 4,707,718, 11-17-87, Cl. 357-45.000.
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Kosaka, Tsuneo; and Sakai, Yukio, 4,694,089, Cl. 549-239.000.
Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,660,961, Cl. 355-4.000.
Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,697,913, Cl. 355-3.00R.
Nojiri, Naohiro; and Sakai, Yukio, 4,642,360, Cl. 549-534.000.
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Sakai, Yukiyoshi: *See*—
Takahata, Daisuke; and Sakai, Yukiyoshi, 4,641,054, Cl. 310-324.000.
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tanaki, Yasushi; and Nagai, Hikaru, to Fujitsu Limited. Magnetic recording medium and production processes thereof. 4,664,963, 5-12-87, Cl. 428-142.000.
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tanaki, Yasushi; and Nagai, Hikaru, to Fujitsu Limited. Magnetic recording production processes. 4,675,075, 6-23-87, Cl. 156-650.000.
Sakaibara, Toru; Tsujioka, Shigeo; Kajiura, Toshitori; Aoshima, Toshihisa; and Tonomura, Motonobu, to Hitachi, Ltd. Shading apparatus for displaying three dimensional objects. 4,705,231, 11-24-87, Cl. 340-729.000.
Sakaida, Atsuo; Kawaura, Masafumi; Chikaoka, Yasuji; Iwata, Hiroshi; and Asano, Kiyomitsu, to Nippon Telecommunication Engineering Company; and Brother Industries, Ltd. Print head with torsion spring. 4,634,301, 1-6-87, Cl. 400-124.000.
Sakaida, Atsuo; and Suzuki, Ikuya, to Brother Kogyo Kabushiki Kaisha. Print head. 4,653,943, 3-31-87, Cl. 400-124.000.
Sakaida, Atsuo: *See*—
Asano, Kiyomitsu; and Sakaida, Atsuo, 4,652,158, Cl. 400-124.000.
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Kawai, Keiichi; Yasuda, Setsuo; and Sakaime, Zenichiro, 4,669,149, Cl. 17-33.000.
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Sakaino, Michio: *See*—
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Sakairi, Tadashi: *See*—
Funakoshi, Yasutomo; Miyazaki, Masamitu; Sakairi, Tadashi; and Suzuki, Kozo, 4,654,693, Cl. 357-74.000.
Kenmochi, Kazuei; Sakairi, Tadashi; and Miyazaki, Masamitu, 4,657,714, Cl. 264-1.300.
Sakaizumi, Mikio: *See*—
Hiroshima, Toshio; Tamura, Mamoru; and Sakaizumi, Mikio, 4,676,693, Cl. 405-50.000.
Sakaji, Yoshihiko, to Sanyo Electric Co., Ltd. Control system for a magnetic disk drive unit. 4,651,277, 3-17-87, Cl. 364-200.000.
Sakaki, Hirokazu: *See*—
Nakanishi, Haruo; Sakaki, Hirokazu; Yamazaki, Toru; and Okishi, Yoshio, 4,678,551, Cl. 204-129.750.
Nakanishi, Haruo; Ohba, Hisao; and Sakaki, Hirokazu, 4,695,021, Cl. 204-129.750.
Ohashi, Azusa; Shirai, Akira; Sakaki, Hirokazu; Tanabe, Zenichi; Tsuchida, Shin; and Hayashi, Yoshikatsu, 4,634,656, Cl. 430-278.000.
Takeuchi, Makoto; Kitazumi, Etsuo; Sakaki, Hirokazu; and Okishi, Yoshio, 4,714,528, Cl. 204-33.000.
Takizawa, Kazushige; Sakaki, Hirokazu; Abe, Yuji; Matsuo, Mamoru; Tajiri, Akira; and Tsuchida, Shin, 4,686,083, Cl. 420-548.000.
Sakaki, Hiroyuki: Mobility-modulation field-effect transistor. 4,688,061, 8-18-87, Cl. 357-22.000.
Sakaki, Mamoru; and Arai, Ryuichi, to Canon Kabushiki Kaisha. Light-transmissive recording medium having a crosslinked-polymer ink receiving layer. 4,701,837, 10-20-87, Cl. 346-135.100.
Sakaki, Mamoru: *See*—
Arai, Ryuichi; Sakaki, Mamoru; and Matsui, Shinya, 4,664,952, Cl. 427-256.000.
Arai, Ryuichi; and Sakaki, Mamoru, 4,686,118, Cl. 427-261.000.
Mouri, Hidemasa; Tobita, Michiaki; Eto, Naonobu; Kouno, Shunzo; Ohkura, Kosuke; Toganoh, Shigeo; Arai, Ryuichi; Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hiromi, 4,642,247, Cl. 427-214.000.
Toganoh, Shigeo; Arai, Ryuichi; and Sakaki, Mamoru, 4,636,805, Cl. 346-1.100.
Sakaki, Naoaki: *See*—
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Nagano, Masahiko; and Sakaki, Naoaki, 4,695,899, Cl. 358-310.000.
Sakakibara, Hideo: *See*—
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Sakakibara, Jinsaku: *See*—
Migita, Yoshihiro; Eguchi, Tadashi; Kumazawa, Yukinari; Nakagami, Jozi; Amano, Takehiro; Sota, Kaoru; and Sakakibara, Jinsaku, 4,686,292, Cl. 544-343.000.
Sakakibara, Kazuhiko; and Kuwata, Yutaka, to Nippon Telegraph and Telephone Corporation. Series resonant converter. 4,679,129, 7-7-87, Cl. 363-17.000.
Sakakibara, Kazuo; Kuwakado, Satosi; Shimogawa, Toshiaki; Taguchi, Masahiro; Onimaru, Sadahisa; and Ina, Toshikazu, to Nippon Soken, Inc. Device for controlling power seats in vehicle. 4,669,780, 6-2-87, Cl. 297-257.000.
Sakakibara, Kenji; Harano, Tetsuo; Bandai, Yasuhito; and Ohta, Eiichi, to Brother Kogyo Kabushiki Kaisha. Image reader. 4,684,999, 8-4-87, Cl. 358-294.000.
Sakakibara, Kenji; Akao, Michitoshi; Hayashi, Shigeyuki; and Sakai, Jun, to Brother Kogyo Kabushiki Kaisha. Imaging device. 4,714,943, 12-22-87, Cl. 355-27.000.
Sakakibara, Kenji: *See*—
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Sakakibara, Koji; and Haraguchi, Hiroshi, to Nippondenso Co., Ltd. Knock control system for internal combustion engines. 4,711,213, 12-8-87, Cl. 123-425.000.
Sakakibara, Koji; Haraguchi, Hiroshi; and Yukumoto, Hideki, to Nippondenso Co., Ltd. Anti-knocking control in internal combustion engine. 4,711,214, 12-8-87, Cl. 123-425.000.
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Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, to Nippon Soken, Inc. Air cleaner using ionic wind. 4,643,745, 2-17-87, Cl. 55-137.000.
Sakakibara, Nobuyoshi; Hattori, Tadashi; Miura, Kazuhiko; Noguchi, Hiroki; Fukami, Akira; and Nabeta, Teiichi, to Nippondenso Co., Ltd.; and Nippon Soken, Inc. Air cleaning apparatus. 4,673,416, 6-16-87, Cl. 55-137.000.
Sakakibara, Nobuyoshi: *See*—
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Sakakibara, Shigeru; Arimoto, Shunji; Ishikawa, Hidenobu; and Maruyama, Osamu, to Dainippon Ink and Chemicals, Inc. Activation energy-curable resin composition. 4,690,987, 9-1-87, Cl. 525-502.000.
Sakakibara, Shinsuke: *See*—
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Sakakibara, Shiro; Kawamoto, Mutsumi; and Ando, Masahiko, to Aisin-Warner Kabushiki Kaisha. Vehicular continuously variable transmission. 4,633,736, 1-6-87, Cl. 74-689.000.
Sakakibara, Shiro; and Koshiba, Sadahiro, to Aisin-Warner Limited. Endless transmission belt. 4,650,444, 3-17-87, Cl. 474-201.000.
Sakakibara, Shiro; Sobue, Norio; Miyaishi, Yoshinori; Koshiba, Sadahiro; and Hasebe, Masahiro, to Aisin-Warner Limited. Endless driving belt. 4,655,735, 4-7-87, Cl. 474-245.000.
Sakakibara, Shiro; and Tsuzuki, Shigeo, to Aisin-Warner Limited. Centrifugal friction clutch and coupling mechanism using such clutch. 4,657,122, 4-14-87, Cl. 192-3.310.
Sakakibara, Shiro; and Tsuzuki, Shigeo, to Aisin-Warner Limited. Centrifugal and torque responsive clutch. 4,660,692, 4-28-87, Cl. 192-3.310.
Sakakibara, Shiro; and Ozaki, Kazuhisa, to Aisin-Warner Limited. Parking mechanism for transmissions. 4,709,793, 12-1-87, Cl. 192-4.00A.
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Sakakibara, Shumpei, to Ajinomoto Co., Inc. Novel peptide. 4,670,540, 6-2-87, Cl. 530-324.000.
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Sakakibara, Takao; Toyoda, Tsunehiko; and Nagashima, Yoshihisa, to Dai Nippon Toryo Co., Ltd.; and Tokai Kogyo Co., Ltd. Molding process for plastics. 4,681,712, 7-21-87, Cl. 264-24.000.
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Sakakibara, Yasuhiro; Kobayashi, Isamu; and Suzuki, Yoshinori, to Hitachi, Ltd.; and Hitachi Microcomputer Engineering, Ltd. Semiconductor integrated circuit device. 4,701,886, 10-20-87, Cl. 365-189.000.
Sakakibara, Yasuji: *See*—
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Sakakibara, Yasuo: *See*—
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Sakakibara, Yasuyuki; Abe, Seiko; Tomita, Masahiro; Yorita, Hiroshi; Tanaka, Takeshi; and Igashira, Toshihiko, to Nippon Soken, Inc. Apparatus for controlling electroexpansive actuator avoiding deterioration of polarization. 4,705,003, 11-10-87, Cl. 123-449.000.
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Yoshimura, Kazuyuki; and Sakakibara, Yoshio, 4,701,388, Cl. 430-209.000.
Sakakibara, Yuichi; Takahashi, Yukio; and Shima, Hideharu, to Kabushiki Kaisha Toshiba. Fluorescent lamp. 4,691,140, 9-1-87, Cl. 313-486.000.
Sakakibara, Yuji: *See*—
Suzuki, Takatoshi; Takada, Yasuo; Sakakibara, Yuji; Sugiura, Masahiro; Hayashi, Hiroaki; and Kamigaito, Osami, 4,691,756, Cl. 164-361.000.
Sakakima, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Method for making magnetic heads. 4,670,972, 6-9-87, Cl. 29-603.000.
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Sakakiyama, Ryuzo, to Fuji Jukogyo Kabushiki Kaisha. System for engaging an electromagnetic clutch during range change operation. 4,657,123, 4-14-87, Cl. 192-3.580.
Sakakiyama, Ryuzo, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the clutch torque of an electromagnetic clutch for vehicles. 4,660,699, 4-28-87, Cl. 192-0.075.
Sakakiyama, Ryuzo, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the clutch torque of an electromagnetic clutch for vehicles. 4,662,496, 5-5-87, Cl. 192-0.076.
Sakakiyama, Ryuzo, to Fuji Jukogyo Kabushiki Kaisha; and Van Doorne's Transmissie B.V. System for controlling the clutch torque of an electromagnetic clutch for vehicles. 4,669,591, 6-2-87, Cl. 192-0.076.
Sakakiyama, Ryuzo, to Fuji Jukogyo Kabushiki Kaisha. System for decreasing clutch current during a change of range in an infinitely variable transmission. 4,674,610, 6-23-87, Cl. 192-0.052.
Sakakiyama, Ryuzo, to Fuji Jukogyo Kabushiki Kaisha. System for controlling the clutch current of an electromagnetic clutch for vehicles. 4,674,611, 6-23-87, Cl. 192-3.560.
Sakakiyama, Ryuzo; and Miyawaki, Motohisa, to Fuji Jukogyo Kabushiki Kaisha. System for controlling an electromagnetic clutch for a vehicle. 4,675,817, 6-23-87, Cl. 364-424.100.
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Sakakiyama, Ryuzo: *See*—
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Sakamaki, Hirokichi; and Nakayama, Tadao, to Kabushiki Kaisha Kobe Seiko Sho. Crown control method for a multi-roll rolling mill. 4,656,855, 4-14-87, Cl. 72-8.000.
Sakamaki, Hiroshi; Sugishita, Susumu; Horikoshi, Yukio; and Yanagihashi, Kikuji, to Nippon Piston Ring Co., Ltd. Rotary sleeve bearing apparatus for a rotary compressor. 4,648,818, 3-10-87, Cl. 418-173.000.
Sakamaki, Hiroshi; Sugishita, Susumu; and Horikoshi, Yukio, to Nippon Piston Ring Co., Ltd. Vane-type rotary compressor with rotary sleeve. 4,648,819, 3-10-87, Cl. 418-173.000.
Sakamaki, Hiroshi; Sugishita, Susumu; Horikoshi, Yukio; Okamura, Hiroshi; and Shimizu, Kenji, to Nippon Piston Ring Co., Ltd.; and Kabushiki Kaisha Tokiwaseisakusho. Method of manufacturing a rotor for rotary fluid pumps. 4,649,612, 3-17-87, Cl. 29-156.40R.
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Sakamaki, Hiroshi; Sugishita, Susumu; and Horikoshi, Yukio, to Nippon Piston Ring Co., Ltd. Rotor for rotary fluid pump. 4,681,519, 7-21-87, Cl. 418-152.000.
Sakamaki, Hisashi: *See*—
Komiya, Yutaka; Murakami, Katsumi; Inuzuka, Tsuneki; and Sakamaki, Hisashi, 4,671,647, Cl. 355-14.00R.
Komori, Shigehiro; Sakamaki, Hisashi; Hattori, Hiroyuki; Iida, Toshihide; Miyamoto, Koichi; and Umezawa, Kazumi, 4,662,740, Cl. 355-3.0SH.

Shimizu, Katsuichi; Masuda, Shunichi; Yagasaki, Toshiaki; and Sakamaki, Hisashi, 4,638,368, Cl. 358-256.000.
Shimizu, Katsuichi; Sakamaki, Hisashi; Furuichi, Katsushi; and Honma, Toshio, 4,685,796, Cl. 355-14.00R.

Sakamaki, Takeshi; and Watanabe, Fumio, to Kabushiki Kaisha Toshiba. Automatic chemical analyzing apparatus. 4,675,162, 6-23-87, Cl. 422-65.000.

Sakamaki, Yoshio: *See*—
Watanabe, Nobuhisa; Iwamoto, Hisao; Nasuno, Toshihiro; and Sakamaki, Yoshio, 4,684,017, Cl. 206-235.000.

Sakammoto, Izumi: *See*—
Mochizuki, Masatsugu; Umemura, Yoshihiro; Sakammoto, Izumi; and Takagi, Kunihiko, 4,675,347, Cl. 523-122.000.

Sakamoto, Akemi: *See*—
Suzukamo, Gohfu; Fukao, Masami; Minobe, Masao; and Sakamoto, Akemi, 4,711,873, Cl. 502-344.000.

Sakamoto, Akira; Fukami, Takeshi; Sugita, Takehiro; and Toyoshima, Masakatsu, to Sony Corporation. Scrambling system for an audio frequency signal. 4,683,586, 7-28-87, Cl. 380-48.000.

Sakamoto, Akira: *See*—
Yamada, Muneki; and Sakamoto, Akira, 4,675,219, Cl. 428-35.000.

Sakamoto, Atsushi; and Iwahara, Makoto, to Victor Company of Japan, Ltd. Directional microphone apparatus. 4,703,506, 10-27-87, Cl. 381-92.000.

Sakamoto, Atsushi: *See*—
Iwahara, Makoto; Miyaji, Naotaka; and Sakamoto, Atsushi, 4,696,043, Cl. 381-92.000.
Suzuki, Kiyoaki; Iwahara, Makoto; Suzuki, Hidetsugu; and Sakamoto, Atsushi, 4,672,434, Cl. 358-88.000.

Sakamoto, Fujio, to Toyoda Gosei Co., Ltd. Wheel cap. 4,709,967, 12-1-87, Cl. 301-37.00P.

Sakamoto, Haruo; and Kajiura, Motomu, to Du Pont de Nemours, E. I., and Company. Electric connector with contact holding mechanism. 4,659,158, 4-21-87, Cl. 339-19.000.

Sakamoto, Hidenori: *See*—
Takumi, Kenta; and Sakamoto, Hidenori, 4,675,866, Cl. 370-124.000.

Sakamoto, Hiroshi; Torigoe, Toshihiro; and Yamaguchi, Tadashi, to Matsushita Electric Industrial Co., Ltd. Copying machine. 4,716,291, 12-29-87, Cl. 250-318.000.

Sakamoto, Hiroshi: *See*—
Hirai, Kiyomiki; Takeuchi, Koji; Sakamoto, Hiroshi; and Abe, Masahiro, 4,689,388, Cl. 528-104.000.
Kikuchi, Masafumi; and Sakamoto, Hiroshi, 4,673,984, Cl. 358-190.000.
Kikuchi, Masafumi; Onodera, Toshio; Toyama, Sumio; and Sakamoto, Hiroshi, 4,679,091, Cl. 358-242.000.
Nitto, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiraga; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjiro; Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.

Sakamoto, Hiroya: *See*—
Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.
Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358-236.000.

Sakamoto, Hiroyuki: *See*—
Tsuchiya, Yasuyuki; and Sakamoto, Hiroyuki, 4,692,483, Cl. 523-406.000.

Sakamoto, Hitoshi, to Sony Corporation. Video signal recording apparatus. 4,656,529, 4-7-87, Cl. 360-10.200.

Sakamoto, Hitoshi; and Okafuji, Takayuki, to Sony Corporation. Automatic tracking apparatus. 4,660,108, 4-21-87, Cl. 360-77.000.

Sakamoto, Hitoshi; and Okafuji, Takayuki, to Sony Corporation. Head positioning signal generating apparatus with signal duration control. 4,698,699, 10-6-87, Cl. 360-10.200.

Sakamoto, Isamu: *See*—
Yamawaki, Masakatsu; Sakamoto, Isamu; Mizusawa, Kenichi; and Iwamoto, Eiji, 4,642,467, Cl. 250-492.300.

Sakamoto, Itaru: *See*—
Yoshimura, Shohei; Fujimura, Shigeki; and Sakamoto, Itaru, 4,707,569, Cl. 174-116.000.

Sakamoto, Izumi; and Takagi, Kunihiko, to Unitika Ltd. Urethral catheter capable of preventing urinary tract infection and process for producing the same. 4,642,104, 2-10-87, Cl. 604-264.000.

Sakamoto, Izumi; and Takagi, Kunihiko, to Unitika Ltd. Injector filled with an anti-cancer composition. 4,642,111, 2-10-87, Cl. 604-890.000.

Sakamoto, Izumi; Unigame, Tukasa; and Takagi, Kunihiko, to Unitika Ltd. Hemostatic agent. 4,655,211, 4-7-87, Cl. 128-156.000.

Sakamoto, Jitsuo: *See*—
Yamaguchi, Akira; Kamuro, Setsufumi; and Sakamoto, Jitsuo, 4,672,647, Cl. 377-77.000.

Sakamoto, Katsuji; Ohta, Akio; Toda, Yuichi; Suzuki, Shuzo; and Ide, Takashi, to Sumitomo Electric Industries, Ltd. Optical fiber characteristic measuring method and apparatus. 4,676,635, 6-30-87, Cl. 356-73.100.

Sakamoto, Katsuji: *See*—
Yamazaki, Takashi; and Sakamoto, Katsuji, 4,641,794, Cl. 242-47.010.

Sakamoto, Katsuyoshi, to Amada Company, Limited. Die exchange device. 4,680,955, 7-21-87, Cl. 72-462.000.

Sakamoto, Katsuyoshi: *See*—
Koyama, Shigeo; and Sakamoto, Katsuyoshi, 4,656,861, Cl. 72-323.000.
Koyama, Shigeo; and Sakamoto, Katsuyoshi, 4,658,625, Cl. 72-322.000.

Sakamoto, Kazuhiko; Nakatsuji, Toshiharu; Mototani, Hideo; Kamoshita, Katsuzo; Nakayama, Isamu; and Kato, Toshiro, to Nitto Kasei Co., Ltd. Tri-organotin silatrane derivatives and pesticidal compositions, fungicides or antifouling agents comprising said compounds as active ingredients. 4,654,368, 3-31-87, Cl. 514-493.000.

Sakamoto, Kazuho; and Mihara, Makoto, to Matsushita Electric Industrial, Co., Ltd. Heating apparatus having a weight detector. 4,672,181, 6-9-87, Cl. 219-518.000.

Sakamoto, Kazuho, to Matsushita Electric Industrial Co., Ltd. Heating cooking appliance having weight detecting function. 4,703,151, 10-27-87, Cl. 219-518.000.

Sakamoto, Kazuho: *See*—
Maehara, Naoyoshi; Matsumoto, Takahiro; Kusunoki, Shigeru; Sakamoto, Kazuho; and Mihara, Makoto, 4,704,674, Cl. 363-131.000.

Sakamoto, Keiji; and Kobayashi, Toshio, to Fanuc Ltd. Method and apparatus for controlling permanent magnet synchronous motor by using pulse width modulation. 4,703,245, 10-27-87, Cl. 318-809.000.

Sakamoto, Keiji; and Kobayashi, Toshio, to Fanuc Ltd. Control method and apparatus for synchronous motor. 4,703,246, 10-27-87, Cl. 318-809.000.

Sakamoto, Keiji: *See*—
Kurakake, Mitsuo; Sakamoto, Keiji; and Toyosawa, Yukio, 4,680,518, Cl. 318-561.000.
Kurakake, Mitsuo; Sakamoto, Keiji; and Toyosawa, Yukio, 4,695,780, Cl. 318-561.000.

Sakamoto, Kenichiro: *See*—
Minematsu, Yoshihiko; Tanaka, Minoru; Yamamoto, Masayuki; and Sakamoto, Kenichiro, 4,684,313, Cl. 414-735.000.

Sakamoto, Kenji: *See*—
Hashimoto, Matsuo; Kiyomoto, Masayuki; Karasawa, Yoshimitsu; Sakamoto, Kenji; Kakui, Yasuhiko; and Hirasawa, Yuuki, 4,675,252, Cl. 428-431.000.

Sakamoto, Kingo: *See*—
Kiyama, Yoshito; Wada, Ryokichi; and Sakamoto, Kingo, 4,675,824, Cl. 364-464.000.

Sakamoto, Koji; Kaneko, Toshio; Kanno, Fuchio; and Yasuda, Wataru, to Ricoh Company, Ltd. Developing device. 4,674,439, 6-23-87, Cl. 118-657.000.

Sakamoto, Koji: *See*—
Kanno, Fuchio; Kobayashi, Kazuo; Sakamoto, Koji; Kaneko, Toshio; and Yasuda, Wataru, 4,656,964, Cl. 118-648.000.
Miyakawa, Seiichi; Tatsumi, Susumu; and Sakamoto, Koji, 4,640,129, Cl. 73-866.000.

Sakamoto, Kuniaki: *See*—
Sakuma, Shin; Sakamoto, Kuniaki; Kitagawa, Hisashi; Sakoh, Mitsuo; and Nonaka, Saneo, 4,704,274, Cl. 424-88.000.

Sakamoto, Kyooya: *See*—
Yamane, Shigeki; Mori, Keijiro; and Sakamoto, Kyooya, 4,691,269, Cl. 363-41.000.

Sakamoto, Makoto: *See*—
Katsura, Hiromitsu; Ehashi, Shigeyuki; Kashioka, Motohiko; and Sakamoto, Makoto, 4,664,714, Cl. 106-308.00N.

Sakamoto, Masaaki: *See*—
Iwabuchi, Toshiyuki; Sakai, Shunji; Uchiyama, Akira; Sakamoto, Masaaki; and Masaki, Yuichi, 4,672,219, Cl. 250-578.000.

Sakamoto, Masaharu: *See*—
Ohshima, Ken; Okada, Hiroo; and Sakamoto, Masaharu, 4,644,514, Cl. 369-32.000.
Takeuchi, Toyoaki; Ohshima, Ken; Kenjyo, Hideyuki; Ikeda, Yoshiaki; and Sakamoto, Masaharu, 4,683,560, Cl. 369-45.000.

Sakamoto, Masahide; and Shida, Masami, to Hitachi, Ltd. Method and system for idle speed control. 4,708,108, 11-24-87, Cl. 123-339.000.

Sakamoto, Masahide: *See*—
Amano, Matsuo; Shida, Masami; Sakamoto, Masahide; Hirayama, Takeshi; and Sasayama, Takao, 4,703,430, Cl. 364-431.050.
Morita, Kiyomi; Kashiwaya, Mineo; and Sakamoto, Masahide, 4,644,923, Cl. 123-493.000.

Sakamoto, Masahiko; Yamane, Yoshio; and Hiramoto, Seigo, to Mitsubishi Denki Kabushiki Kaisha. Method and apparatus for detecting and regulating position of welding electron beam. 4,654,506, 3-31-87, Cl. 219-121.0ES.

Sakamoto, Masahiro, to Canon Kabushiki Kaisha. Image reader. 4,658,302, 4-14-87, Cl. 358-294.000.

Sakamoto, Masahiro, to Canon Kabushiki Kaisha. Image reading apparatus. 4,663,672, 5-5-87, Cl. 358-294.000.

Sakamoto, Masahiro, to Canon Kabushiki Kaisha. Image processing apparatus. 4,686,579, 8-11-87, Cl. 358-282.000.

Sakamoto, Masami; Nagumo, Ryoichi; and Ishihara, Tamio, to Hitachi Ltd. X-Y plotter drive roller arrangement. 4,683,480, 7-28-87, Cl. 346-134.000.

Sakamoto, Masaru: *See*—
Tanino, Katsumi; Kiuchi, Norihiro; Tominaga, Chikara; Itoh, Eiji; Ogino, Kiyoshi; Yahagi, Masataka; and Sakamoto, Masaru, 4,656,455, Cl. 338-35.000.

Sakamoto, Mikio, to NEC Corporation. Contact type image sensor and driving method therefor. 4,672,453, 6-9-87, Cl. 358-294.000.

Sakamoto, Nobuyoshi, to Omron Tateisi Electronics Co. Electronic cash register. 4,688,174, 8-18-87, Cl. 364-405.000.

Sakamoto, Nobuyoshi: *See*—
Nagai, Kiyoshi; and Sakamoto, Nobuyoshi, 4,659,357, Cl. 333-196.000.
Sakamoto, Noriaki: *See*—
Horie, Noboyuki; Sakamoto, Noriaki; Fujikawa, Toshiaki; and Yamanaka, Toshihiro, 4,635,145, Cl. 360-78.000.
Sakamoto, Norio; Ikariya, Toshiyuki; Takahashi, Kiyohiko; Nakamura, Masao; and Yanagisawa, Akira, to Konishiroku Photo Industry Co., Ltd. Slide for chemical analysis. 4,668,472, 5-26-87, Cl. 422-56.000.
Sakamoto, Satoshi, to Sony Corporation. Three-phase brushless motor. 4,639,648, 1-27-87, Cl. 318-254.000.
Sakamoto, Seiichi, to Sanden Corporation. Scroll type fluid displacement apparatus with improved anti-wear device. 4,645,436, 2-24-87, Cl. 418-55.000.
Sakamoto, Setsu; Nakagawa, Yasuhiro; Yamauchi, Isamu; Zaizen, Takashi; Suzuki, Katsumi; Shimamoto, Susumu; and Nakajima, Hideo, to Nippon Steel Corporation; and Japan Atomic Energy Research Institute. Structural austenitic stainless steel with superior proof stress and toughness at cryogenic temperatures. 4,675,156, 6-23-87, Cl. 420-34.000.
Sakamoto, Shigemi: *See*—
Masuda, Eiji; and Sakamoto, Shigemi, 4,638,305, Cl. 340-347.0DA.
Sakamoto, Shoichi: *See*—
Matsumoto, Fujio; Doi, Hajime; Mizushima, Kunio; Funahashi, Masaya; Taniguchi, Tomizo; and Sakamoto, Shoichi, 4,709,816, Cl. 206-444.000.
Sakamoto, Shotaka: *See*—
Hosokawa, Yorio; and Sakamoto, Shotaka, 4,672,279, Cl. 318-568.000.
Sakamoto, Shuichi: *See*—
Kubo, Kazuo; Isomura, Yasuo; Sakamoto, Shuichi; and Homma, Hirosiage, 4,636,516, Cl. 514-305.000.
Ohashi, Minoru; Arakawa, Noboshiko; Asahara, Tomoko; and Sakamoto, Shuichi, 4,650,752, Cl. 435-15.000.
Sakamoto, Shunji: *See*—
Fuji, Hiroshi; Sakamoto, Shunji; and Kimura, Kunji, 4,658,501, Cl. 29-787.000.
Sakamoto, Sunji: *See*—
Taketani, Toshinobu; Kuramori, Ken; Sakamoto, Sunji; and Fuji, Hiroshi, 4,681,651, Cl. 29-786.000.
Sakamoto, Takahide; Hiroshima, Tatsuo; Matsuhara, Noriyuki; and Miyata, Kenichi, to Sumitomo Metal Industries, Ltd. Rotary probe apparatus for detecting flaws in a test object. 4,641,092, 2-3-87, Cl. 324-227.000.
Sakamoto, Takahide; and Hiroshima, Tatsuo, to Sumitomo Metal Industries, Ltd. Zirconium liner thickness measuring method and an apparatus therefor for a zirconium alloy tube. 4,673,877, 6-16-87, Cl. 324-225.000.
Sakamoto, Takao, to Tachikawa Spring Co., Ltd. Seat suspension. 4,640,488, 2-3-87, Cl. 248-588.000.
Sakamoto, Takao, to Tachikawa Spring Co., Ltd. Weight adjustment device for a seat suspension. 4,645,578, 3-10-87, Cl. 248-576.000.
Sakamoto, Takao, to Tachikawa Spring Co., Ltd. Locking device for a seat suspension. 4,650,148, 3-17-87, Cl. 248-561.000.
Sakamoto, Takao, to Yamato System Engineer Co., Ltd. Method of cleaning an inner surface of a heat transfer tube in a heat-exchonger. 4,676,301, 6-30-87, Cl. 165-95.000.
Sakamoto, Takashi: *See*—
Shida, Junji; Ono, Yoshio; Mitsuka, Ikuo; Hoki, Testuo; Kuwahara, Akira; Hathara, Hitoshi; and Sakamoto, Takashi, 4,656,517, Cl. 358-213.000.
Sakamoto, Takayoshi: *See*—
Uemura, Seiichi; Hirose, Takao; Sohda, Yoshio; Sakamoto, Takayoshi; and Katoh, Kenji, 4,656,022, Cl. 423-447.200.
Sakamoto, Takeshi: *See*—
Murata, Seiichiro; Tateishi, Masaru; Hayakawa, Kohji; Sakamoto, Takeshi; and Mukasa, Kohsuke, 4,674,430, Cl. 114-355.000.
Sakamoto, Tamaki, to Omron Tateisi Electronics Co. Electronic thermometer. 4,679,949, 7-14-87, Cl. 374-183.000.
Sakamoto, Tamaki: *See*—
Ikeda, Toshio; Sakamoto, Tamaki; and Masuo, Yoshifusa, 4,634,292, Cl. 374-109.000.
Sakamoto, Teruo; Kawai, Sadao; Noda, Kinzaburo; Takeda, Toyohiko; and Kato, Hiroshi, to Shionogi & Co., Ltd. Long-acting formulation of cefaclor. 4,713,247, 12-15-87, Cl. 424-461.000.
Sakamoto, Toshinori; Hirashima, Isao; and Tsuji, Seiichi, to Mazda Motor Corporation. Automobile instrument cluster tiltable with a steering column. 4,690,432, 9-1-87, Cl. 280-775.000.
Sakamoto, Tsutomu, to Tokyo Shibaura Denki Kabushiki Kaisha. Microinstruction controlled arithmetic control unit. 4,642,757, 2-10-87, Cl. 364-200.000.
Sakamoto, Tsutomu, to Kansai Environmental Development Co., Ltd. Machine for cutting solid bodies. 4,694,716, 9-22-87, Cl. 83-112.000.
Sakamoto, Tsutomu: *See*—
Takashima, Shigekazu; and Sakamoto, Tsutomu, 4,701,864, Cl. 364-521.000.
Sakamoto, Yasuhisa: *See*—
Ishi, Toshio; Sakamoto, Yasuhisa; and Takahashi, Isao, 4,648,381, Cl. 126-20.000.
Sakamoto, Yoichi: *See*—
Ibata, Akihiko; and Sakamoto, Yoichi, 4,648,915, Cl. 148-101.000.
Sakamoto, Yuji: *See*—
Nakamura, Morio; Obayashi, Shigeji; Yamamoto, Takushi; Nakanishi, Toshikazu; Tanaka, Hitoshi; and Sakamoto, Yuji, 4,683,274, Cl. 526-216.000.
Sakamoto, Yukio, to Murata Manufacturing Co., Ltd. Chip capacitor. 4,663,694, 5-5-87, Cl. 361-302.000.
Sakamoto, Yukio; and Madokoro, Shinichi, to Murata Manufacturing Co., Ltd. Noise filter. 4,675,629, 6-23-87, Cl. 333-182.000.
Sakamoto, Yukio; Yamana, Tetsuo; and Hori, Toshio, to Murata Manufacturing Co., Ltd. Feedthrough noise eliminating filter having integrally stepped mounting portion. 4,700,155, 10-13-87, Cl. 333-182.000.
Sakamoto, Yukio; Madokoro, Shinichi; and Okuyama, Shingo, to Murata Manufacturing Co., Ltd. LC filter manufacturing method. 4,700,451, 10-20-87, Cl. 29-25.420.
Sakamoto, Yuzo; and Koike, Kazuo, to Mitsubishi Denki Kabushiki Kaisha. Magnetic disk head opening mechanism with an expanded opening range. 4,716,479, 12-29-87, Cl. 360-105.000.
Sakan, Tatsuo: *See*—
Koshi, Minekazu; Fukao, Osamu; Saito, Tatsuke; Sakan, Tatsuo; and Nakahara, Seiichi, 4,647,697, Cl. 564-249.000.
Sakanaka, Eiichi: *See*—
Matsui, Hirotoshi; Tsumura, Takeo; and Sakanaka, Eiichi, 4,687,356, Cl. 400-144.200.
Sakanaka, Hiroo: *See*—
Sakano, Kenji; Aketa, Masahiro; Ikeshima, Tetsuro; Hataura, Kiyoshi; Sakanaka, Hiroo; and Yamashita, Masahiro, 4,703,729, Cl. 123-308.000.
Sakanaka, Yasuhiro; and Okuzono, Shuichi, to Toyo Soda Manufacturing Co., Ltd. Process for producing granular composition of ethylenethiourea-chloroprene rubber. 4,639,508, 1-27-87, Cl. 528-486.000.
Sakanaka, Yasuhiro: *See*—
Nakagawa, Tatsushi; Narui, Mamoru; and Sakanaka, Yasuhiro, 4,663,396, Cl. 525-344.000.
Sakane, Isamu; and Kawauchi, Satsuki, to I.S.T. Corporation. Composite rubber material and process for making same. 4,707,387, 11-17-87, Cl. 427-393.500.
Sakane, Kazuo: *See*—
Teraji, Tsunomu; Sakane, Kazuo; and Goto, Jiro, 4,654,422, Cl. 548-115.000.
Sakane, Koji: *See*—
Nishiuchi, Kihachiro; Suzue, Masayoshi; and Sakane, Koji, 4,652,439, Cl. 423-598.000.
Nishiuchi, Kihachiro; Suzue, Masayoshi; and Sakane, Koji, 4,659,211, Cl. 423-598.000.
Sakane, Toshihiko; and Ogasa, Michio, to Mitsubishi Denki Kabushiki Kaisha. Radiation suppression device. 4,709,220, 11-24-87, Cl. 335-214.000.
Sakane, Toshio; Taguchi, Tetsuya; Ogawa, Masahiko; Tamura, Shuichi; and Tsunekawa, Tokuichi, to Canon Kabushiki Kaisha. Distance detecting device. 4,636,053, 1-13-87, Cl. 354-403.000.
Sakane, Toshio; and Tsunekawa, Tokuichi, to Canon Kabushiki Kaisha. Light metering and processing system particularly for a video camera. 4,638,367, 1-20-87, Cl. 358-228.000.
Sakanishi, Yoshitaka: *See*—
Uemura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sumi, Akinori; Ohtani, Wataru; Sakanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu, 4,694,074, Cl. 530-417.000.
Sakano, Kenji; Aketa, Masahiro; Ikeshima, Tetsuro; Hataura, Kiyoshi; Sakanaka, Hiroo; and Yamashita, Masahiro, to Kubota Ltd. Intake system with double intake ports for internal combustion engine. 4,703,729, 11-3-87, Cl. 123-308.000.
Sakano, Kozaburo: *See*—
Matsuo, Junichi; Sakano, Kozaburo; and Takeda, Isamu, 4,700,671, Cl. 222-107.000.
Nobara, Shigeo; Sugimoto, Takeshi; Sakano, Kozaburo; Ohkubo, Yoshimichi; and Matsuo, Junichi, 4,649,004, Cl. 264-85.000.
Yazaki, Jinichi; and Sakano, Kozaburo, 4,687,689, Cl. 428-35.000.
Sakano, Makoto: *See*—
Nagata, Tomizou; and Sakano, Makoto, 4,650,449, Cl. 493-84.000.
Sakano, Riichi, to Sanden Corporation. Refrigeration system for both vehicle air conditioner and refrigerator. 4,637,220, 1-20-87, Cl. 62-200.000.
Sakano, Yasuo: *See*—
Hasegawa, Kenji; Sakano, Yasuo; Katsuragi, Yasuhiro; Aimoto, Kenji; and Sugihara, Kunio, 4,675,184, Cl. 424-85.000.
Sakano, Yukio, to Ricoh Company, Ltd. Digital copier with document image region decision device. 4,707,745, 11-17-87, Cl. 358-283.000.
Sakanoue, Hitoyuki: *See*—
Sekiguchi, Yukio; Funakubo, Hiroyasu; Sakanoue, Hitoyuki; and Komura, Osamu, 4,709,844, Cl. 228-3.100.
Sakanoue, Kei: *See*—
Yagihara, Morio; Hirano, Tsumoru; Yamamoto, Tatsuya; and Sakanoue, Kei, 4,668,613, Cl. 430-548.000.
Sakaoka, Gouji, to Pentel Kabushiki Kaisha. Mechanical pencil with automatic lead advance. 4,650,359, 3-17-87, Cl. 401-53.000.
Sakarya, Dursun, to RCA Corporation. Television signal input filter. 4,642,691, 2-10-87, Cl. 358-188.000.
Sakashita, Kazuhiro: *See*—
Yonezu, Ryo; and Sakashita, Kazuhiro, 4,638,461, Cl. 365-189.000.
Yonezu, Ryo; and Sakashita, Kazuhiro, 4,644,500, Cl. 365-189.000.
Sakashita, Kiichiro, to Canon Kabushiki Kaisha. Developer for developing electrostatic latent images contains vinylidene fluoride polymer. 4,666,813, 5-19-87, Cl. 430-110.000.
Sakashita, Kiichiro: *See*—
Imai, Eiichi; Sakashita, Kiichiro; Takagi, Seiichi; and Kukimoto, Tsutomu, 4,702,986, Cl. 430-120.000.

Sakashita, Mitsuaki: *See*—
Fujikawa, Yoshihiro; Sakashita, Mitsuaki; and Tsuruzoe, Nobutomo, 4,639,444, Cl. 514-222.000.
Fujikawa, Yoshihiro; Suzuki, Mikio; Sakashita, Mitsuaki; Tsuruzoe, Nobutomo; and Miyasaka, Tadashi, 4,654,348, Cl. 514-258.000.

Sakashita, Seiji; Sato, Takeshi; Nagai, Hiroyuki; Kubo, Kazuhiko; and Usui, Akira, to Matsushita Electric Industrial Co., Ltd. Frequency conversion apparatus. 4,677,692, 6-30-87, Cl. 455-319.000.

Sakashita, Shigeo, to Casio Computer Co., Ltd. Pan-pot control apparatus. 4,648,115, 3-3-87, Cl. 381-17.000.

Sakashita, Shigeo, to Casio Computer Co., Ltd. Automatic music playing apparatus capable of producing a plurality of different sounds simultaneously. 4,683,794, 8-4-87, Cl. 84-1.030.

Sakashita, Tsutomu: *See*—
Yamada, Tsuneo; Sakashita, Tsutomu; Tomono, Hiroshi; Kimura, Takashi; Machara, Yasuhiro; and Yasumoto, Kunio, 4,709,572, Cl. 72-366.000.

Sakashita, Wataru; Chiyoya, Tsukasa; Ichikawa, Tsutomu; and Hayano, Makoto, to Kabushiki Kaisha Toshiba. Scroll compressors with annular sealed high pressure thrust producing member. 4,645,437, 2-24-87, Cl. 418-55.000.

Sakata, Gozyo: *See*—
Makino, Kenzi; Akiyama, Shigeaki; Fukuda, Kenzow; and Sakata, Gozyo, 4,665,212, Cl. 560-61.000.

Sakata, Hajime: *See*—
Tokumitsu, Jun; and Sakata, Hajime, 4,707,743, Cl. 358-213.130.

Sakata, Hirotsugu; Nagatomo, Shigemi; Hayano, Makoto; and Hatori, Mitsuo, to Kabushiki Kaisha Toshiba. Scroll compressor with a thrust reduction mechanism. 4,696,630, 9-29-87, Cl. 418-55.000.

Sakata, Hirotsugu: *See*—
Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hatori, Mitsuo; and Hattori, Hitoshi, 4,673,339, Cl. 418-15.000.
Hayano, Makoto; Nagatomo, Shigemi; Sakata, Hirotsugu; Hatori, Mitsuo; and Hattori, Hitoshi, 4,708,607, Cl. 418-55.000.

Sakata, Isao; Nakajima, Susumu; Koshimuzi, Koichi; Samejima, Natsuki; Inohara, Kazumi; and Takata, Hiroyuki, to Toyo Hakka Kogyo Kabushiki Kaisha. Pheophorbide derivatives and alkaline salts thereof. 4,709,022, 11-24-87, Cl. 540-145.000.

Sakata, Katsuyuki: *See*—
Koga, Shinichiro; Kohyama, Katsuhisa; and Sakata, Katsuyuki, 4,661,555, Cl. 524-611.000.

Sakata, Kazuhiko; and Miyake, Hideo, to Toyo Boseki Kabushiki Kaisha. Printed transfer paper for decorating pottery. 4,666,756, 5-19-87, Cl. 428-202.000.

Sakata, Ko: *See*—
Itoh, Hiroyuki; Sakata, Ko; and Imai, Hirosuke, 4,636,229, Cl. 55-158.000.

Sakata, Kunihiro: *See*—
Nakamura, Kozoo; Kozima, Yasuyuki; Hamada, Nagaharu; and Sakata, Kunihiro, 4,713,699, Cl. 358-296.000.

Sakata, Masao, to Nissan Motor Company, Limited. System and method for controlling a vehicle speed of an automotive vehicle. 4,703,429, 10-27-87, Cl. 364-426.000.

Sakata, Masataka; Takasu, Shigeo; and Ikimi, Yoshihiro, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Hydraulic power piping unit for a lift truck. 4,683,987, 8-4-87, Cl. 187-9.00E.

Sakata, Shinji: *See*—
Morozumi, Manami; and Sakata, Shinji, 4,668,778, Cl. 536-27.000.
Nakamura, Kaoru; Sakata, Shinji; Ochiai, Chiaki; Furuta, Yoichi; and Tsubouchi, Kaoru, 4,707,989, Cl. 60-539.000.

Sakata Shokai, Ltd.: *See*—
Hashimoto, Harumi; and Hirano, Isamu, 4,675,161, Cl. 422-56.000.
Sugiura, Masahiro; and Yoshida, Michiyuki, 4,707,930, Cl. 33-623.000.

Sakata, Tomio, to Tokyo Shibaura Denki Kabushiki Kaisha. Apparatus for detecting an utterance boundary. 4,696,041, 9-22-87, Cl. 381-46.000.

Sakata, Yoshitsugu; Shintani, Akinori; Matsuo, Tetsuya; Sugiyama, Haruhiko; and Tokioka, Nobuyuki, to Wako Pure Chemical Industries, Ltd. Water-soluble cross-linked polymer of lysyl endopeptidase, process for preparing same and use of same. 4,634,671, 1-6-87, Cl. 435-188.000.

Sakata, Yoshitsugu; Hamanaka, Tadashi; Iwata, Kenzi; and Nakaue, Misato, to Wako Pure Chemical Industries, Ltd. Composition, method and test strip for examining urobilinogen. 4,665,038, 5-12-87, Cl. 436-97.000.

Sakata, Yoshitsugu; Miyashita, Yoshibonu; Hamanaka, Tadashi; Kodera, Hiroyuki; Miki, Yutaka; Yamanishi, Kazuhiko; and Hanada, Toshiro, to Wako Pure Chemical Industries, Ltd. Process for quantitative determination of substrate treated with oxidase. 4,695,539, 9-22-87, Cl. 435-10.000.

Sakata, Yoshiya: *See*—
Okamura, Masatoshi; Shiba, Haruo; Hashizume, Kenji; and Sakata, Yoshiya, 4,682,259, Cl. 360-132.000.
Shiba, Haruo; Sato, Takateru; Tanaka, Kimio; and Sakata, Yoshiya, 4,688,128, Cl. 360-132.000.
Shiba, Haruo; and Sakata, Yoshiya, 4,707,757, Cl. 360-132.000.

Sakatani, Atushi: *See*—
Inoue, Nori; Moriai, Yasuharu; Sakatani, Atushi; and Yoshida, Noriyuki, 4,688,149, Cl. 361-399.000.

Sakato, Keiichiro, to Nippon Kogaku K. K. Exposure method and apparatus for semiconductor fabrication equipment. 4,712,910, 12-15-87, Cl. 355-53.000.

Sakauchi, Takashi; Mohri, Fumihiko; Tomoda, Naohisa; and Nakatsuka, Satoshi, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Multipolarly magnetized magnet. 4,702,852, 10-27-87, Cl. 252-62.540.

Sakaue, Tadashi: *See*—
Sagara, Tatsuo; and Sakaue, Tadashi, 4,653,329, Cl. 73-726.000.

Sakaue, Yoshinori; and Sugimoto, Kazutoshi, to International Business Machines Corporation. Method and system for line-thinning in electronic image processing. 4,665,441, 5-12-87, Cl. 358-280.000.

Sakawa, Shinji: *See*—
Kume, Toyohiko; Kurahashi, Yoshio; Isono, Kunihiro; Sakawa, Shinji; and Matsumoto, Noboru, 4,700,006, Cl. 568-67.000.
Kurahashi, Yoshio; Shiokawa, Kozo; Kagabu, Shinzo; Sakawa, Shinji; and Moriya, Koichi, 4,710,518, Cl. 514-624.000.
Shiokawa, Kozo; Kagabu, Shinzo; and Sakawa, Shinji, 4,670,599, Cl. 564-445.000.

Sakaya, Kazuyuki: *See*—
Miwa, Kishio; Kihara, Makoto; Sakaya, Kazuyuki; and Inoue, Takehisa, 4,705,627, Cl. 210-264.000.

Sakazume, Akio; Yoshikawa, Hiroki; and Matsushima, Hiroaki, to Hitachi, Ltd. Control system for compressor motor used with air-conditioning unit. 4,638,643, 1-27-87, Cl. 62-209.000.

Sakemoto, Akito: *See*—
Maruyama, Hiroshi; Mizushima, Kunio; Sakemoto, Akito; and Umebayashi, Nobuhiro, 4,695,910, Cl. 360-133.000.

Sakhno, Lidia T.: *See*—
Arutjunian, Norair S.; Kornena, Elena P.; Kazarian, Robert V.; Ponomareva, Natalya A.; Redko, Grigory V.; Sakhno, Lidia T.; and Zhidkova, Irina S., 4,713,155, Cl. 204-155.000.

Sakikawa, Shigenori: *See*—
Yamaoka, Kojiro; Azuma, Toshiro; Sakikawa, Shigenori; Shibata, Jiro; and Odagaki, Atsushi, 4,664,210, Cl. 180-132.000.

Sakimoto, Seiichiro; Fujita, Kazuo; Yamauchi, Yutaka; and Matsue, Hiroshi, to Showa Denko Kabushiki Kaisha. Coated particulate materials and method for manufacture thereof. 4,678,710, 7-7-87, Cl. 428-407.000.

Sakita, Eiichi: *See*—
Nabeyama, Takatoshi; and Sakita, Eiichi, 4,681,459, Cl. 368-16.000.

Sakiyama, Hisashi: *See*—
Miyahara, Kenji; and Sakiyama, Hisashi, 4,671,654, Cl. 356-152.000.

Sakiyama, Kazuo: *See*—
Funaki, Masaaki; Ohtani, Noboru; Yoshida, Motoaki; Fujioka, Akira; and Sakiyama, Kazuo, 4,642,266, Cl. 428-412.000.

Sakiyama, Keizo: *See*—
Mimoto, Toshio; and Sakiyama, Keizo, 4,695,745, Cl. 307-297.000.

Sakizadeh, Kumars: *See*—
Rasmussen, Jerald K.; Katritzky, Alan R.; Krepski, Larry R.; Smith, Howell K., II; Heilmann, Steven M.; and Sakizadeh, Kumars, 4,667,012, Cl. 528-332.000.

Sakka, Kenji: *See*—
Ura, Katsumi; Sakka, Kenji; Kouno, Yoshmi; and Inui, Taji, 4,651,533, Cl. 60-678.000.

Sakka, Sumio: *See*—
Miyake, Yoshifumi; and Sakka, Sumio, 4,683,253, Cl. 523-442.000.

Sakkab, Nabil Y.: *See*—
Parran, John J., Jr.; and Sakkab, Nabil Y., 4,684,518, Cl. 424-52.000.

Sako, Junichi; and Yagi, Toshiharu, to Daikin Industries Ltd. Polymeric composite heating element. 4,636,331, 1-13-87, Cl. 252-511.000.

Sako, Shizuka; Amaike, Kanetoshi; and Watanabe, Youji, to Chubu Seiko Co., Ltd. Sliver drawing apparatus. 4,703,431, 10-27-87, Cl. 364-470.000.

Sako, Yoichiro: *See*—
Suzuki, Tadao; Sako, Yoichiro; Furukawa, Shunske; Furuya, Tsuneo; and Baggen, Constant P. M. J., 4,680,764, Cl. 371-40.000.

Sako, Yoshitaka: *See*—
Hirose, Sachio; Homma, Tammotsu; Kurihara, Takashi; Adachi, Hidenari; Sako, Yoshitaka; and Shibata, Makiko, 4,703,106, Cl. 530-307.000.

Sako, Yuji, to Mitsubishi Denki Kabushiki Kaisha. Thermal-type over load relay. 4,635,020, 1-6-87, Cl. 337-49.000.

Sako, Yuji, to Mitsubishi Denki Kabushiki Kaisha. Overcurrent relay. 4,642,597, 2-10-87, Cl. 337-82.000.

Sako, Yuji, to Mitsubishi Denki Kabushiki Kaisha. Thermal-type overload relay. 4,652,847, 3-24-87, Cl. 337-49.000.

Sako, Yuji: *See*—
Ando, Isao; Tazawa, Hiroaki; Sako, Yuji; Ootsuka, Shigeharu; Mizuno, Yuji; and Ikeda, Kosaku, 4,671,697, Cl. 403-325.000.
Mori, Teijiro; Wada, Yuichi; Sako, Yuji; Tazawa, Hiroaki; and Okado, Hiroyuki, 4,642,429, Cl. 200-144.00R.
Okado, Hiroyuki; Nishizako, Shizutaka; Sako, Yuji; and Kakizoe, Masahiro, 4,654,744, Cl. 361-159.000.

Sako, Yukinobu; Shimoyama, Tatsuya; and Matsunaga, Yoshinori, to Matsushita Electric Industrial Co., Ltd. Rechargeable cordless vacuum cleaner apparatus. 4,670,701, 6-2-87, Cl. 320-2.000.

Sakoda, Kousuke; Kainaga, Masahiro; Akita, Hidehiko; Murata, Fumiya; and Nakaosa, Yoshitake, to Hitachi, Ltd. Method of processing a plurality of code systems. 4,692,896, 9-8-87, Cl. 364-900.000.

Sakoda, Kousuke: *See*—
Hirose, Tadashi; Sakoda, Kousuke; Kojima, Tomihiko; Akita, Hidehiko; and Miyairi, Tsutomu, 4,665,478, Cl. 364-200.000.

Sakoda, Yasuhiro, to Sharp Kabushiki Kaisha. Microwave oven door. 4,700,035, 10-13-87, Cl. 219-10.55D.

Sakoe, Hiroaki, to NEC Corporation. Pattern matching apparatus. 4,670,850, 6-2-87, Cl. 364-513.500.

Sakoe, Hiroaki, to NEC Corporation. Speaker verification system. 4,694,493, 9-15-87, Cl. 381-42.000.

Sakoh, Mitsuo: *See*—
Sakuma, Shin; Sakamoto, Kuniaki; Kitagawa, Hisashi; Sakoh, Mitsuo; and Nonaka, Saneo, 4,704,274, Cl. 424-86.000.

Sakomoto, Sadasue: *See*—
Yamamoto, Harutoshi; and Sakomoto, Sadasue, 4,693,293, Cl. 164-99.000.
Sakota, Kazuyuki: *See*—
Ueno, Ryuzo; Sakota, Kazuyuki; and Nakamura, Yasunori, 4,684,712, Cl. 528-190.000.
Saks, Thomas J.: *See*—
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Saksala, Pertti: *See*—
Kuusela, Juhani; Lopperi, Esko; Lummila, Markku; Saksala, Pertti; Salovaara, Esa; Suhonen, Tuomo; Perttina, Harri; Poikolainen, Esko; and Trygg, Hannu, 4,700,953, Cl. 277-38.000.
Saksena, Anil K.: *See*—
Green, Michael J.; and Saksena, Anil K., 4,696,946, Cl. 514-574.000.
Sakuda, Osamu: *See*—
Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kunihiro, Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Arai, Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, Cl. 60-39.230.
Sakudo, Noriyuki: *See*—
Tokiguchi, Katsumi; Koike, Hidemi; Sakudo, Noriyuki; Okada, Osami; Ninomiya, Ken; and Ozasa, Susumu, 4,658,143, Cl. 250-423.00R.
Sakuchi, Sakakibara, Yoshiaki, Tokuda, Tamio, Nagai, Yorinobu, Takino, and Tomiro, Arai, to Matsui Manufacturing Co., Ltd.; and House Food Industrial Company Limited. Mixing apparatus for powdered or granular materials. 4,685,810, 8-11-87, Cl. 366-150.000.
Sakuma, Hajime, to Olympus Optical Co., Ltd. Method of judging immunological reactions. 4,661,460, 4-28-87, Cl. 436-165.000.
Sakuma, Hiraku, to NEC Corporation. High voltage signal output circuit provided with low voltage drive signal processing stages. 4,677,317, 6-30-87, Cl. 307-443.000.
Sakuma, Hiraku, to NEC Corporation. Driving method for driving plasma display with improved power consumption and driving device for performing the same method. 4,692,665, 9-8-87, Cl. 315-169.400.
Sakuma, Hisayuki; and Hoshinouchi, Susumu, to Mitsubishi Denki Kabushiki Kaisha. Laser machining apparatus. 4,638,145, 1-20-87, Cl. 219-121.01.U.
Sakuma, Isamu: *See*—
Kawano, Hideo; and Sakuma, Isamu, 4,644,551, Cl. 372-45.000.
Ohta, Yoshinori; Sakuma, Isamu; Hibiya, Taketoshi; and Sakaguchi, Mitsuhito, 4,686,678, Cl. 372-33.000.
Sakuma, Kazuhiro: *See*—
Shintani, Yasuo; Sakuma, Kazuhiro; Yabe, Hisashi; and Ito, Hirohito, 4,658,647, Cl. 73-517.00B.
Sakuma, Kazuhito; Arita, Yoshinobu; Sato, Masaaki; and Awaya, Nobuyoshi, to Nippon Telegraph & Telephone Corporation. Substrate structure of semiconductor device and method of manufacturing the same. 4,660,068, 4-21-87, Cl. 357-49.000.
Sakuma, Kazuyoshi: *See*—
Ohkuma, Kuniaki; Sakuma, Kazuyoshi; Miyao, Hisao; Yoshimura, Shinichi; Koizumi, Hideharu; and Miwa, Yoshitake, 4,688,978, Cl. 414-224.000.
Sakuma, Kunio, to Seiko Epson Kabushiki Kaisha. Resin mounting structure for an integrated circuit. 4,644,445, 2-17-87, Cl. 361-398.000.
Sakuma, Masaru: *See*—
Sawano, Susumu; and Sakuma, Masaru, 4,671,579, Cl. 303-95.000.
Sakuma, Masato: *See*—
Tachikawa, Mamoru; Ueki, Satoshi; Sakuma, Masato; Imai, Chihiro; and Makishima, Tokuo, 4,678,767, Cl. 502-104.000.
Tachikawa, Mamoru; Sakuma, Masato; Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, 4,686,199, Cl. 502-104.000.
Sakuma, Nobuo, to Ricoh Company, Ltd. Fθ single lens. 4,695,132, 9-22-87, Cl. 350-409.000.
Sakuma, Nobuo; and Takanashi, Kenichi, to Ricoh Company, Ltd. Lens system for deflected light beam. 4,712,884, 12-15-87, Cl. 350-434.000.
Sakuma, Nobuo: *See*—
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Sakuma, Noriyuki: *See*—
Nishioka, Yasuhiro; Homma, Noriyuki; Sakuma, Noriyuki; and Mukai, Kiichiro, 4,636,833, Cl. 357-71.000.
Sakuma, Satoru: *See*—
Nonomiya, Kojiro; and Sakuma, Satoru, 4,662,274, Cl. 99-620.000.
Sakuma, Shin; Sakamoto, Kuniaki; Kitagawa, Hisashi; Sakoh, Mitsuo; and Nonaka, Saneo, to Juridical Foundation, The Chemo-Sero-Therapeutic Research Institute. Method for the purification of LPF-HA. 4,704,274, 11-3-87, Cl. 424-88.000.
Sakuma, Shin: *See*—
Ginnaga, Akihiro; Koba, Hiroshi; Sakuma, Shin; Kitagawa, Hisashi; Yamada, Akira; and Suzuki, Yoji, 4,687,738, Cl. 435-68.000.
Sakuma, Shinzo; Tamaki, Nobuaki; and Kawakami, Hideo, to Kabushiki Kaisha Meidensha. Vacuum interrupter. 4,661,666, 4-28-87, Cl. 200-144.00B.
Sakuma, Shinzo: *See*—
Tamaki, Nobuaki; Sakuma, Shinzo; Fukai, Toshimasa; and Takihana, Masatoshi, 4,707,577, Cl. 200-144.00B.
Sakuma, Shuji; and Fujinawa, Hirotaka, to Kabushiki Kaisha Sangi. Toothbrush. 4,691,718, 9-8-87, Cl. 132-84.00R.
Sakuma, Shunji: *See*—
Okubo, Kiyokazu; and Sakuma, Shunji, 4,646,584, Cl. 74-475.000.
Sakuma, Tatsuya: *See*—
Ono, Katsuhiro; Sakuma, Tatsuya; and Takahashi, Hiroshi, 4,698,835, Cl. 378-136.000.
Sakuma, Toshiyuki: *See*—
Endo, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshihiko; Sakuma, Toshiyuki; and Kinugawa, Kiyoshige, 4,701,025, Cl. 350-333.000.
Endo, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshihiko; Sakuma, Toshiyuki; and Kinugawa, Kiyoshige, 4,702,560, Cl. 350-333.000.
Sakuma, Yasuzi: *See*—
Sonoda, Shinji; Ozaki, Norihiko; Watahiki, Seishi; Sakuma, Yasuzi; and Yamaguchi, Masayoshi, 4,644,791, Cl. 73-432.100.
Sakura Color Products Corp.: *See*—
Shioi, Keiko; and Okuda, Yasushi, 4,657,591, Cl. 106-23.000.
Sakura, Shigeyuki: *See*—
Takezawa, Hatsuo; Donuma, Kenichi; Katagiri, Shuhei; and Sakura, Shigeyuki, 4,695,858, Cl. 357-19.000.
Sakura, Yasuhiro; Nimura, Hitoshi; and Nakayama, Satoshi, to Tokyo Electric Co., Ltd. Thermal printer. 4,638,332, 1-20-87, Cl. 346-76.0PH.
Sakura, Yasuhiro, to Tokyo Electric Co., Ltd. Label feed control system. 4,639,287, 1-27-87, Cl. 156-361.000.
Sakura, Yasuhiro; Nimura, Hitoshi; and Ishikawa, Mamoru, to Tokyo Electric Co., Ltd. Thermal printer. 4,639,743, 1-27-87, Cl. 346-76.0PH.
Sakura, Yasuhiro; Nimura, Hitoshi; and Ishikawa, Mamoru, to Tokyo Electric Co., Ltd. Thermal printer. 4,641,147, 2-3-87, Cl. 346-76.0PH.
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Sakura, Yasuhiro: *See*—
Tajima, Noriyasu; Sakura, Yasuhiro; Futakata, Takashi; Senda, Kouji; and Seki, Kazuaki, 4,700,792, Cl. 177-178.000.
Sakuraba, Shinichi: *See*—
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Sakurada, Kazuyuki: *See*—
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Sakurada, Masahiko; Manabe, Sugio; Okamura, Hideaki; and Gocho, Nagahiro, to Olympus Optical Co., Ltd. Automatic analyzing apparatus. 4,636,360, 1-13-87, Cl. 422-65.000.
Sakurada, Masahiko: *See*—
Galle, Kevin; Orimo, Ryoichi; Sakurada, Masahiko; Banno, Taiichi; and Manabe, Sugio, 4,634,576, Cl. 422-102.000.
Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, to Canon Kabushiki Kaisha. Intermediate gradient image producing method. 4,635,078, 1-6-87, Cl. 346-140.00R.
Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, to Canon Kabushiki Kaisha. Recording head drive control apparatus. 4,639,747, 1-27-87, Cl. 346-140.00R.
Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, to Canon Kabushiki Kaisha. Method for recording a color image using dots of colorants of different densities. 4,672,432, 6-9-87, Cl. 358-75.000.
Sakurada, Nobuaki: *See*—
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Kawamura, Hideaki; Sakurada, Nobuaki; and Sasaki, Takashi, 4,658,300, Cl. 358-280.000.
Kawamura, Hideaki; Sasaki, Takashi; and Sakurada, Nobuaki, 4,667,228, Cl. 358-80.000.
Kawamura, Hideaki; Sakurada, Nobuaki; Sato, Yuichi; and Watanabe, Yoshitaka, 4,713,701, Cl. 358-298.000.
Sasaki, Takashi; Sakurada, Nobuaki; and Kawamura, Hideaki, 4,682,186, Cl. 346-140.00R.
Sasaki, Takashi; Sakurada, Nobuaki; Kawamura, Hideaki; and Moriyama, Jiro, 4,682,216, Cl. 358-79.000.
Shimoda, Nobuhiko; Sakurada, Nobuaki; Kawamura, Masaharu; Ito, Tadashi; Ito, Fumio; and Murakami, Hiroyashu, 4,664,496, Cl. 354-420.000.
Takayama, Makoto; and Sakurada, Nobuaki, 4,706,132, Cl. 358-336.000.
Watanabe, Yoshitaka; Sakurada, Nobuaki; Kawamura, Hideaki; and Sato, Yuichi, 4,713,746, Cl. 346-1.100.
Yamamoto, Mitsuru; Sakurada, Nobuaki; and Watanabe, Yoshitaka, 4,714,935, Cl. 346-140.00R.
Sakurada, Satoshi: *See*—
Maejima, Tsugio; Kobayashi, Wataru; Ashibe, Kenji; Tagaya, Nobuaki; and Sakurada, Satoshi, 4,664,775, Cl. 208-89.000.
Sakurada, Shuroku; and Ikeda, Yasuhiko, to Hitachi, Ltd. Gate turn-off thyristor with integral capacitive anode. 4,682,198, 7-21-87, Cl. 357-38.000.
Sakuragi, Masako; and Ichimura, Kunihiro, to Agency of Industrial Science & Technology; and Ministry of International Trade & Industry. Chelate, crosslinked polyethyleneimine resin having 2-hydroxy benzoyl group. 4,678,844, 7-7-87, Cl. 525-417.000.
Sakuragi, Takamasa; and Fushimi, Ikuo, to Canon Kabushiki Kaisha. Switching device having a feedback means for rendering a control circuit inoperative in response to a current supply circuit being inoperative. 4,716,305, 12-29-87, Cl. 307-296.00R.
Sakurai, Akio; and Kato, Ryoichi, to Central Research Institute of Electric Power Industry; and Hitachi, Ltd. Fast breeder reactor. 4,681,726, 7-21-87, Cl. 376-171.000.
Sakurai, Akira, to Kao Corporation. Sanitary napkin. 4,654,038, 3-31-87, Cl. 604-368.000.

Sakurai, Akira: *See*—
Yamasaki, Harumasa; Kobayashi, Takatoshi; Ito, Osamu; Sakurai, Akira; and Sumida, Yuzo, 4,666,975, Cl. 524-733.000.

Sakurai, Akiyoshi; Koga, Akihiro; and Kambara, Toru, to Asahi Glass Company, Ltd. Optical fiber array plate. 4,671,612, 6-9-87, Cl. 350-96.270.

Sakurai, Atsushi: *See*—
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Sakurai, Hideo: *See*—
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Sakurai, Hideya: *See*—
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Miyamoto, Toshinobu; Hayashi, Hiroo; Sakurai, Hideya; Takabayashi, Hirofumi; and Ohnishi, Youichi, 4,679,022, Cl. 335-296.000.

Sakurai, Hiroshi, to Tokico Ltd. Carriage assembly for a magnetic disc memory apparatus. 4,646,182, 2-24-87, Cl. 360-104.000.

Sakurai, Hiroshi; and Iwasaki, Masami, to Kabushiki Kaisha Toshiba. Press-packed semiconductor device. 4,694,322, 9-15-87, Cl. 357-74.000.

Sakurai, Hiroshi, to Tokico Ltd. Magnetic disc recording and reproducing device with damper and lock for head moving motor. 4,701,823, 10-20-87, Cl. 360-106.000.

Sakurai, Hiroshi: *See*—
Matsuura, Hitoshi; and Sakurai, Hiroshi, 4,709,482, Cl. 33-1.00M.

Sakurai, Hisayuki: *See*—
Yamaguchi, Fumio; Nakaniwa, Yoshiaki; Masuda, Yoshiaki; Sakurai, Hisayuki; and Nakashima, Waichiro, 4,633,931, Cl. 164-110.000.

Sakurai, Hitoshi. Wheel anti-skid attachment. 4,685,743, 8-11-87, Cl. 301-44.00T.

Sakurai, Junji; and Kamioka, Hajime, to Fujitsu Limited. Semiconductor bipolar integrated circuit device and method for fabrication thereof. 4,642,883, 2-17-87, Cl. 29-576.00B.

Sakurai, Junji, to Fujitsu Limited. Process for producing monocrystalline layer on insulator. 4,659,422, 4-21-87, Cl. 156-617.00R.

Sakurai, Kanji; Tsumura, Hideo; and Kawamura, Chiaki, to Mitsubishi Denki Kabushiki Kaisha. Magnetic head actuating mechanism constructed to minimize adverse effect of disturbance thereto. 4,652,953, 3-24-87, Cl. 360-106.000.

Sakurai, Kaoru; and Shinozaki, Kazushi. End face grinding apparatus. 4,667,443, 5-26-87, Cl. 51-99.000.

Sakurai, Katukiyo; Ueno, Yoshio; and Okuyama, Takashi, to Seikagaku Kogyo Co. Ltd. Crosslinked hyaluronic acid and its use. 4,716,224, 12-29-87, Cl. 536-55.100.

Sakurai, Kazuhiro; and Hattori, Kyo, to Toyota Jidosha Kabushiki Kaisha. Intake device of an internal combustion engine. 4,700,669, 10-20-87, Cl. 123-188.00M.

Sakurai, Kazuhiro: *See*—
Idogaki, Takaharu; Kawai, Hisasi; Hattori, Kyo; and Sakurai, Kazuhiro, 4,647,009, Cl. 251-129.120.

Sakurai, Keiichi, to Casio Computer Co., Ltd. Hybrid electronic musical instrument. 4,635,519, 1-13-87, Cl. 84-1.170.

Sakurai, Keiichi; and Kayahara, Takehiko, to Casio Computer Co., Ltd. Electronic musical instrument with automatic ending accompaniment function. 4,646,610, 3-3-87, Cl. 84-1.030.

Sakurai, Keiichi, to Casio Computer Co., Ltd. Automatic rhythm generator for electronic musical instrument. 4,656,911, 4-14-87, Cl. 84-1.030.

Sakurai, Keiichi, to Casio Computer Co., Ltd. Electronic musical instrument with automatic accompaniment unit. 4,674,384, 6-23-87, Cl. 84-1.030.

Sakurai, Keiichi, to Casio Computer Co., Ltd. Apparatus with liquid crystal display panel, for recording/playing back television signal by utilizing digital audio tape recorder system. 4,710,826, 12-1-87, Cl. 360-9.100.

Sakurai, Keiichi: *See*—
Okuda, Hiroko; Sakurai, Keiichi; and Minamitaka, Junichi, 4,643,068, Cl. 84-1.030.

Sakurai, Kenji: *See*—
Maeda, Yoshihiko; Nogami, Toshiaki; Kashiwagi, Shigeru; Sakurai, Kenji; and Nishiyama, Kunio, 4,702,517, Cl. 296-214.000.

Sakurai, Koichi. Toy having a melody-making mechanism of a sound-detection type. 4,637,007, 1-13-87, Cl. 369-67.000.

Sakurai, Koichi; and Kojima, Minoru. Head-positioning mechanism for an endless tape. 4,692,820, 9-8-87, Cl. 360-74.700.

Sakurai, Masaaki: *See*—
Hirabayashi, Hiromitsu; and Sakurai, Masaaki, 4,640,600, Cl. 355-3.0FU.
Murata, Yasuzo; Yokoyama, Takeo; Wada, Hiroyuki; and Sakurai, Masaaki, 4,707,593, Cl. 235-487.000.

Sakurai, Masaki: *See*—
Sugiyama, Hiroyuki; Sakurai, Masaki; Abe, Ryozo; Yoshihara, Kenji; and Haneji, Yasuo, 4,638,376, Cl. 358-342.000.

Sakurai, Masao; Hamada, Yousuke; Ninomiya, Morimasa; Takechi, Toshihide; Nakagawa, Kunihiro; and Fujii, Takashi, to Nippondenso Co., Ltd. Automobile differential gear system. 4,633,735, 1-6-87, Cl. 74-675.000.

Sakurai, Masashi: *See*—
Nakano, Tasuku; Kouno, Kazuo; Hibino, Kazunari; and Sakurai, Masashi, 4,708,365, Cl. 280-801.000.

Sakurai, Michikazu: *See*—
Tajima, Shoji; Kadomatsu, Yasuo; Miyazaki, Yoshito; Sakurai, Michikazu; and Anze, Kimio, 4,707,382, Cl. 427-58.000.

Sakurai, Mikio; Nakamura, Shiro; Igarashi, Takao; and Yamauchi, Koki, to Hitachi, Ltd. Nuclear reactor. 4,656,000, 4-7-87, Cl. 376-352.000.

Sakurai, Mikios *See*—
Ishikawa, Toshimitsu; Ozawa, Mishihiro; Sakurai, Mikio; Konno, Mutsuo; Aizawa, Yasuhiro; Igarashi, Takao; and Hirakawa, Hiromasa, 4,686,079, Cl. 376-444.000.

Sakurai, Minoru: *See*—
Nakanishi, Toshihide; Hirao, Toshihiko; and Sakurai, Minoru, 4,657,860, Cl. 435-115.000.

Sakurai, Nobuo: *See*—
Kasai, Kiyoshi; Hattori, Masayuki; Kikuchi, Osamu; Takeuchi, Hiromi; Hirai, Haruhiro; and Sakurai, Nobuo, 4,694,035, Cl. 524-458.000.

Sakurai, Seiya: *See*—
Herzog, Hans K.; and Sakurai, Seiya, 4,649,484, Cl. 364-424.000.

Sakurai, Shigeru; and Hamada, Shigeki, to Mazda Motor Corporation. Diesel cycle engines having heat insulated auxiliary combustion chambers. 4,644,926, 2-24-87, Cl. 123-569.000.

Sakurai, Shigeru: *See*—
Nakamura, Saburo; Sakurai, Shigeru; Nishida, Takumi; and Sahara, Masanori, 4,682,576, Cl. 123-179.00A.
Nomoto, Yoshitaka; Yamauchi, Hirofumi; Sakurai, Shigeru; Ohkubo, Kenji; Kurita, Hideaki; and Yagi, Kunihiro, 4,665,690, Cl. 60-286.000.

Sakurai, Takao: *See*—
Higuchi, Ryoichi; Sakurai, Takao; Mikami, Naoko; Akawa, Kiriko; and Takeuchi, Koji, 4,695,651, Cl. 560-141.000.

Sakurai, Takashi, to Nippondenso Co., Ltd. Unauthorized entry detection system. 4,638,294, 1-20-87, Cl. 340-62.000.

Sakurai, Takashi; Mizuno, Hiroshi; and Shibata, Yoshihisa, to Nippondenso Co., Ltd. Apparatus for measuring the ratio of alcohol contained in mixed fuel. 4,651,085, 3-17-87, Cl. 324-58.50R.

Sakurai, Takashi, to Nippondenso Co., Ltd. Microwave oven for vehicles. 4,667,075, 5-19-87, Cl. 219-10.55B.

Sakurai, Takashi: *See*—
Matsui, Shigetomo; Nakayama, Shigeru; Okada, Hiroichi; and Sakurai, Takashi, 4,672,163, Cl. 219-74.000.

Sakurai, Takayasu; and Iizuka, Tetsuya, to Kabushiki Kaisha Toshiba. Dynamic RAM. 4,677,592, 6-30-87, Cl. 365-222.000.

Sakurai, Takayasu; and Iizuka, Tetsuya, to Kabushiki Kaisha Toshiba. Self-refresh control circuit for dynamic semiconductor memory device. 4,682,306, 7-21-87, Cl. 365-222.000.

Sakurai, Takayasu; and Iizuka, Tetsuya, to Kabushiki Kaisha Toshiba. Power-saving voltage supply. 4,683,382, 7-28-87, Cl. 307-296.00R.

Sakurai, Terushige, to Kabushiki Kaisha Komatsu Seisakusho. Press machine. 4,648,786, 3-10-87, Cl. 414-752.000.

Sakurai, Terushige: *See*—
Miki, Toshiyuki; Tomioka, Kunio; Sakurai, Terushige; and Nakajima, Masao, 4,653,367, Cl. 83-156.000.
Miki, Toshiyuki; Tomioka, Kunio; Nakajima, Masao; and Sakurai, Terushige, 4,681,210, Cl. 198-468.200.

Sakurai, Toshiharu; and Hirata, Seiichi, to Kabushiki Kaisha Toshiba. Semiconductor device of resin-seal type. 4,654,692, 3-31-87, Cl. 357-68.000.

Sakurai, Toshio: *See*—
Fukamachi, Toshio; Matsuda, Kazuto; Noma, Kouichi; Kawada, Toshiaki; Sakurai, Toshio; and Osawa, Takeshi, 4,643,351, Cl. 236-44.00E.

Sakurai, Toshiya: *See*—
Segawa, Keiji; Imaoka, Hirofumi; Kinjo, Hisao; and Sakurai, Toshiya, 4,675,765, Cl. 360-122.000.

Sakurai, Toyoaki, to NEC Corporation. Digitally processing automatic gain control circuit. 4,670,719, 6-2-87, Cl. 330-137.000.

Sakurai, Ushio, to Mazda Motor Corporation. Clutch released brake holder for motor vehicle. 4,653,619, 3-31-87, Cl. 192-13.00A.

Sakurai, Yasuhisa: *See*—
Ogata, Naoya; Sanui, Kohei; Yui, Nobuhiko; Nojima, Kazuhiko; Kataoka, Kazunori; Okano, Teruo; and Sakurai, Yasuhisa, 4,687,831, Cl. 528-64.000.

Sakurai, Yasuo, to Ricoh Company, Ltd. Automatic document feeder. 4,638,987, 1-27-87, Cl. 271-111.000.

Sakurai, Yasuo, to Ricoh Company, Ltd. Automatic document feeder. 4,715,597, 12-29-87, Cl. 271-122.000.

Sakurai, Yasuo: *See*—
Imanishi, Kiyokazu; Naka, Hiroyuki; Sakurai, Yasuo; Ichiyanagi, Takashi; and Kishimoto, Masaru, 4,641,214, Cl. 360-130.240.
Nakagawa, Tohru; Sakurai, Yasuo; and Makizawa, Yoshiaki, 4,648,785, Cl. 414-744.00A.

Sakurai, Yoji; Hirai, Toshiro; Okada, Shigeto; Okada, Takeshi; Yamaki, Jun-ichi; and Ohtsuka, Hideaki, to Nippon Telegraph and Telephone Corporation. Lithium battery including vanadium pentoxide base amorphous cathode active material. 4,675,260, 6-23-87, Cl. 429-191.000.

Sakurai, Yojiro: *See*—
Fujii, Setsuro; Nakayama, Toyoo; Nunomura, Shigeki; Matsui, Ryoji; Watanabe, Shin-ichi; Sudo, Kimio; Okutome, Toshiyuki; Kurumi, Masateru; Sakurai, Yojiro; and Aoyama, Takuo, 4,634,783, Cl. 549-475.000.
Huff, Joel R.; Baldwin, John J.; Sakurai, Yojiro; Vacca, Joseph P., and Guare, James P., Jr., 4,686,226, Cl. 514-285.000.

Sakurai, Yoshifumi, to Canon Kabushiki Kaisha. Magnetooptical recording medium. 4,670,353, 6-2-87, Cl. 428-606.000.

Sakurai, Yoshifumi; and Saiki, Koji, to Sakurai, Yoshifumi; and Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Perpendicular magnetization film. 4,675,239, 6-23-87, Cl. 428-607.000.
Sakurai, Yoshihiko; and Masauji, Mamoru, to Diesel Kiki Co., Ltd. Air conditioner system for automobiles. 4,658,888, 4-21-87, Cl. 165-22.000.
Sakurai, Yoshihiko, to Diesel Kiki Co., Ltd. Air conditioner system for automobiles. 4,665,971, 5-19-87, Cl. 165-22.000.
Sakurai, Yoshihiko, to Diesel Kiki Co., Ltd. Air conditioner system for automobiles. 4,711,295, 12-8-87, Cl. 165-22.000.
Sakurai, Yoshimi: *See*—
Aoki, Takashi; Sakurai, Yoshimi; and Nishikawa, Masao, 4,662,493, Cl. 192-0.052.
Nishikawa, Masao; Sakai, Shinzo; and Sakurai, Yoshimi, 4,637,278, Cl. 74-866.000.
Nishikawa, Masao; Yamaguchi, Kouji; Sakurai, Yoshimi; and Aoki, Takashi, 4,655,330, Cl. 192-3.300.
Nishikawa, Masao; Miyake, Junichi; and Sakurai, Yoshimi, 4,658,943, Cl. 192-0.073.
Nishikawa, Masao; Sakurai, Yoshimi; and Aoki, Takashi, 4,660,690, Cl. 192-3.310.
Nishikawa, Masao; and Sakurai, Yoshimi, 4,691,596, Cl. 74-869.000.
Nishikawa, Masao; Sakurai, Yoshimi; Aoki, Takashi; and Sato, Yoichi, 4,693,347, Cl. 192-3.300.
Nishikawa, Masao; Miyake, Junichi; Sakurai, Yoshimi; and Fukuda, Yukihiro, 4,700,819, Cl. 192-3.620.
Nishikawa, Masao; Aoki, Takashi; and Sakurai, Yoshimi, 4,706,523, Cl. 74-869.000.
Sakurai, Yoshiyuki, to Seiko Epson Kabushiki Kaisha. Print element, printer and method of printing. 4,684,270, 8-4-87, Cl. 400-121.000.
Sakurai, Yukio; and Doi, Koichi, to Nissan Motor Co., Ltd. Vehicle air conditioner having lost motion coupling between the air-mix door and the water cock. 4,653,689, 3-31-87, Cl. 237-12.30B.
Sakurai, Yutaka: *See*—
Sase, Akira; Nagata, Takeo; Fukunaga, Masao; Sakurai, Yutaka; and Satomi, Yoshikatsu, deceased, 4,680,627, Cl. 358-101.000.
Sakurama, Teruo: *See*—
Ohashi, Naohito; Nagata, Shoji; Nakatsuka, Masashi; Ishizumi, Kikuo; Katsube, Junki; Aono, Shunji; and Sakurama, Teruo, 4,695,580, Cl. 514-412.000.
Sakuramoto, Takahumi: *See*—
Konishi, Toshiharu; Shimizu, Yukio; Sakuramoto, Takahumi; Morishita, Tsuyoshi; and Osaki, Shigemi, 4,681,733, Cl. 419-8.000.
Morishita, Tsuyoshi; Osaki, Sigemi; Sakai, Noriyuki; Shimizu, Yukio; Konishi, Toshiharu; and Sakuramoto, Takahumi, 4,670,215, Cl. 419-9.000.
Sakuranaka, Toru; Tajima, Yutaka; and Nakamura, Hisashi, to Diesel Kiki Co., Ltd. Fuel injection system for internal combustion engines. 4,664,079, 5-12-87, Cl. 123-370.000.
Sakuyama, Hideo: *See*—
Ouchi, Chiaki; Sucnaga, Hiroyoshi; Sakuyama, Hideo; Hanai, Michio; and Sawamura, Ichirch, 4,675,055, Cl. 148-11.50F.
Taki, Kazuhiro; and Sakuyama, Hideo, 4,666,666, Cl. 420-421.000.
Sala, Angelo, to Societa' Cavi Pirelli S.p.A. Apparatus for restricting water propagation along a submerged cable. 4,659,868, 4-21-87, Cl. 174-23.00R.
Sala, Angelo: *See*—
Dotti, Enrico; and Sala, Angelo, 4,676,540, Cl. 294-86.400.
Sala International AB. *See*—
Bogen, Jan O., 4,645,434, Cl. 417-476.000.
Salacinski, Philip R. P.: *See*—
Forrest, Gordon C.; Salacinski, Philip R. P.; and Siddle, Kenneth, 4,659,678, Cl. 436-512.000.
Salacuse, Frank. Clamping device and display system. 4,667,826, 5-26-87, Cl. 206-461.000.
Salacuse, Frank S. Universal hanging packaging system. 4,712,671, 12-15-87, Cl. 206-44.00R.
Saladino, Salvatore; and Samson, Victoria M. Ice cream handle. 4,639,376, 1-27-87, Cl. 426-134.000.
Salatta, George N., to Chevron Research Company. Method and apparatus for measuring thermal neutron absorption cross-section. 4,645,935, 2-24-87, Cl. 250-390.000.
Salama, Simon S.: *See*—
Pace, Sal A.; and Salama, Simon S., 4,674,332, Cl. 73-597.000.
Salaman, William; and Richardson, Bernard E. Mouthpieces for musical wind instruments. 4,683,796, 8-4-87, Cl. 84-380.00C.
Salame, Morris: *See*—
Richardson, John C.; and Salame, Morris, 4,696,865, Cl. 428-474.400.
Salamon, Ernst: *See*—
Kern, Otto; Wilhelm, Franz; and Salamon, Ernst, 4,705,803, Cl. 514-450.000.
Salamon, Klaus: *See*—
Gummelt, Klaus; Schulz, Jurgen; Salamon, Klaus; and Rabenstein, Heinrich, 4,642,600, Cl. 338-34.000.
Salamon, Zoltan; Imre nee Virag, Ilona; and Sebestyen, Magdolna, to Alkaloida Vegyeszeti Gyar. Process for the preparation of fluoromethyl-quinoline derivatives. 4,659,834, 4-21-87, Cl. 546-180.000.
Salamon, Zoltan: *See*—
Hosztafi, Sandor; Timar, Tibor; Salamon, Zoltan; Fabian nee Orban, Ilona; and Nagy nee Vajda, Julianna, 4,647,694, Cl. 562-443.000.
Salamone, Ann B.: *See*—
Hoover, Merwin F.; Salamone, Ann B.; and Vandebult, Jan, 4,666,735, Cl. 427-43.100.
Salancy, William: *See*—
Fassman, Arnold; and Salancy, William, 4,697,517, Cl. 101-348.000.
Salandanan, Carmelita: *See*—
Patel, Arvind D.; and Salandanan, Carmelita, 4,713,183, Cl. 252-8.515.
Salandanan, Carmelita S.: *See*—
Patel, Arvind D.; and Salandanan, Carmelita S., 4,637,883, Cl. 252-8.515.
Patel, Arvind D.; and Salandanan, Carmelita S., 4,710,586, Cl. 560-68.000.
Salani, Steven J.; and Moffatt, Jeffrey C., to Forte Music, Inc. Digital interface for acoustic and electrically amplified pianos. 4,686,880, 8-18-87, Cl. 84-1.010.
Salant, Richard F.; Key, William E.; and Kay, Peter L., to Borg-Warner Industrial Products, Inc. Mechanical seal with automatic gap convergence control. 4,643,437, 2-17-87, Cl. 277-28.000.
Salas, Edward R.: *See*—
Boudreau, Daniel A.; and Salas, Edward R., 4,654,788, Cl. 364-200.000.
Salas, Joseph; and Boix-Vives, Laurent, to Lange International S.A. Flexion control for ski boot. 4,693,020, 9-15-87, Cl. 36-117.000.
Salata, Wayne F.: *See*—
Russell, Randy; Salata, Wayne F.; and Stephens, Dennis L., 4,665,323, Cl. 307-75.000.
Salatinjants, Aida. Method of treatment of the infectious and viral diseases by one time interference. 4,708,952, 11-24-87, Cl. 514-158.000.
Salatinjants, Aida. Method of treatment of malaria by one time interference. 4,716,173, 12-29-87, Cl. 514-314.000.
Salaville, Andre A.: *See*—
Besson, Jean G.; Royer, Michel; Salaville, Andre A.; and Streix, Michel B., 4,661,713, Cl. 250-578.000.
Salavin, Serge: *See*—
Deschamps, Jacques; Gay, Michel; and Salavin, Serge, 4,650,434, Cl. 445-2.000.
Salazar, Don, Jr.; and Spector, George. Eyeglasses holder. 4,702,451, 10-27-87, Cl. 248-309.100.
Salazar, Edilberto I.; and Kirschner, Wallace, to Pitney Bowes Inc. Microprocessor controlled d.c. motor for controlling a postage meter. 4,636,959, 1-13-87, Cl. 364-464.000.
Salazar, Edilberto I.; and Kirschner, Wallace, to Pitney Bowes Inc. Sheet handling apparatus. 4,638,732, 1-27-87, Cl. 101-91.000.
Salazar, Edilberto I.; and Kirschner, Wallace, to Pitney Bowes Inc. Apparatus for controlling printing means. 4,643,089, 2-17-87, Cl. 101-91.000.
Salazar, Edilberto I.; and Kirschner, Wallace, to Pitney Bowes Inc. Microprocessor controlled D.C. motor for controlling print value selection means. 4,646,635, 3-3-87, Cl. 101-91.000.
Salazar, Edilberto I.; and Kirschner, Wallace, to Pitney Bowes Inc. Microprocessor controlled D.C. motor for controlling tape feeding means. 4,665,353, 5-12-87, Cl. 318-599.000.
Salazar, Edilberto I.: *See*—
Eckert, Alton B., Jr.; Kirschner, Wallace; and Salazar, Edilberto I., 4,635,205, Cl. 364-464.000.
Salazar, Edward J. Decorative wall panel. 4,644,719, 2-24-87, Cl. 52-311.000.
Salazar, Jose A.: *See*—
Morales, Alfredo L.; Galiasso, Roberto; Carrasquel, Angel R.; and Salazar, Jose A., 4,642,179, Cl. 208-217.000.
Salcher, Olga: *See*—
Bischoff, Erwin; Muller, Hartwig; Salcher, Olga; Berschauer, Friedrich; Scheer, Martin; de Jong, Anno; and Frobel, Klaus, 4,670,260, Cl. 424-121.000.
Salchli, Francois H., to Centro Electronique Horloger S.A. Logic signal multiplier circuit. 4,656,574, 4-7-87, Cl. 363-60.000.
Salcone, Paul J., II, to P. J. Salcone's Inc. Safety lock for seat belt buckle. 4,674,303, 6-23-87, Cl. 70-63.000.
Salday Products Corporation: *See*—
Citino, Salvatore, 4,706,832, Cl. 220-66.000.
Saldenais, Arvids: *See*—
Burgess, Dennis A.; Campbell, William J.; and Saldenais, Arvids, 4,676,633, Cl. 355-91.000.
Saldin, Neil P.; Strum, Bruce J.; Livoti, Michael V.; and Maurer, Allan, to Esprit Systems, Inc. Workstation for local and remote data processing. 4,665,501, 5-12-87, Cl. 364-900.000.
Sale, Robert F.; and Wells, Wayne E., to Ford Motor Company. Leaf spring clamp with attachment means. 4,684,110, 8-4-87, Cl. 267-52.000.
Saleeb, Fouad Z., and McKay, Randal P., to General Foods Corporation. Method for fixing food ingredients on a magnesium salt substrate. 4,664,920, 5-12-87, Cl. 426-74.000.
Saleeb, Fouad Z.: *See*—
Zeller, Bary L.; McKay, Randal P.; and Saleeb, Fouad Z., 4,659,390, Cl. 127-29.000.
Saleem, Abdus, to General Electric Environmental Services, Inc. Process for the simultaneous absorption of sulfur oxides and production of ammonium sulfate. 4,690,807, 9-1-87, Cl. 423-242.000.
Saleh, Lotfy L.; Turton, John A.; and Matthews, Steven L., to Celanese Corporation. Apparatus for lubricating and dissipating heat from cheek plates of a textile crimping mechanism. 4,642,860, 2-17-87, Cl. 28-269.000.
Saleh, Yousef: *See*—
Crane, Jacob; Muench, George J.; Saleh, Yousef; and Lin, Lifun, 4,657,583, Cl. 75-0.5AA.
Crane, Jacob; Muench, George J.; Saleh, Yousef; and Lin, Lifun, 4,698,140, Cl. 204-146.000.

Salek, Stanley, to Broadcast Electronics, Inc. Independent channel modulation system for AM stereo. 4,638,504, 1-20-87, Cl. 381-16.000.
Salem Furnace Co.: *See*—
Johnson, Beverly E.; and Solano, William E., 4,669,977, Cl. 432-139.000.
Solano, William E.; Docherty, James P.; and Stubenbort, Joseph W., 4,637,795, Cl. 432-138.000.
Salem, Robert A., to Seleco, Inc. Method for treatment of surfaces for electroless plating. 4,670,306, 6-2-87, Cl. 427-258.000.
Salensky, George A., to Union Carbide Corporation. Carboxylic acid-grafted phenoxy resins. 4,638,038, 1-20-87, Cl. 525-533.000.
Salensky, George A., to Union Carbide Corporation. Carboxylic acid-grafted phenoxy resins. 4,711,817, 12-8-87, Cl. 428-418.000.
Salensky, George A., to Union Carbide Corporation. Carboxylic acid-grafted phenoxy resins. 4,711,924, 12-8-87, Cl. 524-402.000.
Salensky, George A., to Union Carbide Corporation. Magnetic coating compositions from carboxylic acid-grafted phenoxy resins. 4,715,977, 12-29-87, Cl. 252-62.540.
Salentine, Christopher G., to Chevron Research Company. Trihydrated potassium triborate and process for reacting two borates in the solid state. 4,640,827, 2-3-87, Cl. 423-279.000.
Salerni, John V.; and Donovan, Joseph F., to Baker Oil Tools, Inc. Fluid pressure activated firing head for providing clean fluid. 4,667,735, 5-26-87, Cl. 166-55.100.
Salerni, John V.; and Donovan, Joseph F., to Baker Oil Tools, Inc. Apparatus for maintaining clean fluid in a chamber in a subterranean well tool. 4,708,200, 11-24-87, Cl. 166-55.100.
Salerno, Catherine: *See*—
Raykovitz, Gary F.; and Salerno, Catherine, 4,704,110, Cl. 604-366.000.
Salerno, Catherine E., to National Starch and Chemical Corporation. Thermoplastic elastic adhesive containing polyether block amide. 4,698,242, 10-6-87, Cl. 427-208.200.
Salerno, Catherine E., to National Starch and Chemical Corporation. Thermoplastic elastic adhesives. 4,699,941, 10-13-87, Cl. 524-308.000.
Salerno, Franco; and Sartori, Mario, to CSELT-Centro Studi e Laboratori Telecomunicazioni S.p.A. Differential reference voltage generator for NMOS single-supply integrated circuits. 4,654,578, 3-31-87, Cl. 323-313.000.
Salerno, John C.: *See*—
Freeland, Bruce E.; and Salerno, John C., 4,661,044, Cl. 415-201.000.
Sales, Andre: *See*—
Garcia, Raoul; Michaux, Daniel; and Sales, Andre, 4,691,724, Cl. 134-169.00R.
Sales, Brian C.; and Boatner, Lynn A., to United States of America, Energy. Lead phosphate glass compositions for optical components. 4,699,889, 10-13-87, Cl. 501-22.000.
Sales, Kenneth B., to Hubbell Incorporated. Reflector for roadway lighting luminaire. 4,694,382, 9-15-87, Cl. 362-346.000.
Sales, Wayne C.; and Thomasson, R. L., to K mart Corporation. Carrying case for dual instruments. 4,659,000, 4-21-87, Cl. 224-252.000.
Salesky, William J.: *See*—
Kar, Nareshchandra J.; Salesky, William J.; and Guzowski, Steven J., 4,683,781, Cl. 76-108.00A.
Salestrom, Charles B.; and Anderson, Kenneth E. Modular lighting system. 4,639,841, 1-27-87, Cl. 362-227.000.
Salett, Ronald M.: *See*—
Caprio, A. Ronald; Cyr, John P.; Geaghan, Bernard O.; Kotschenreuther, Paul C.; Schanin, David J.; and Salett, Ronald M., 4,670,855, Cl. 364-900.000.
Salewski, Helmut. Holding tank for waste fluids and process for disposing of waste fluids from recreational vehicles. 4,697,609, 10-6-87, Cl. 137-1.000.
Salford Electrical Instruments, Limited: *See*—
Jones, David W.; and Elston, Malcolm, 4,703,328, Cl. 343-704.000.
Salgad International Ltd.: *See*—
Argon, Gideon, 4,708,051, Cl. 89-40.020.
Argon, Gideon, 4,708,052, Cl. 89-41.010.
Salhi, Ali; and Olliero, Dominique, to Sanofi. Antibiotic compounds derived from cephalosporins, process for their production and pharmaceutical compositions. 4,656,166, 4-7-87, Cl. 514-202.000.
Saliba, Frank. Handle and panel assembly for portfolio. 4,714,143, 12-22-87, Cl. 190-115.000.
Salice, Luciano, to Arturo Salice, S.p.A. Hinge bracket and mounting plate assembly provided with a spring-biased pivoted detent lever and an abutment for engaging the same. 4,674,148, 6-23-87, Cl. 16-258.000.
Salice, Luciano, to Arturo Salice, S.p.A. Hinge bracket and mounting plate assembly. 4,674,150, 6-23-87, Cl. 16-382.000.
Salice, Luciano, to Arturo Salice, S.p.A. Furniture hinge. 4,701,979, 10-27-87, Cl. 16-346.000.
Salick, John E., to Motorola, Inc. Built in self test input generator for programmable logic arrays. 4,672,610, 6-9-87, Cl. 371-27.000.
Salik, Joshua; and Hubbell, Theodore E., to United States of America, National Aeronautics and Space Administration. Ion-beam nitriding of steels. 4,704,168, 11-3-87, Cl. 148-16.600.
Salikuddin, Mohammed; and Tanna, Himatlal K., to Lockheed Corporation. Active noise control system. 4,689,821, 8-25-87, Cl. 381-71.000.
Salin, Rune; and Pettersson, Per Martin. System for determining a queue sequence for serving customers at a plurality of service points. 4,675,647, 6-23-87, Cl. 340-286.00R.
Salinaro, Richard F.: *See*—
Goliaszewski, Alan E.; and Salinaro, Richard F., 4,666,632, Cl. 260-369.000.
Salinas, Jorge E.: *See*—
Dunaway, Weyman H.; and Salinas, Jorge E., 4,670,993, Cl. 34-10.000.
Salinger, Jeremy: *See*—
Dewar, Robert; Salinger, Jeremy; Waldecker, Thomas J.; and Barlow, Neil E., 4,645,348, Cl. 356-376.000.
Salinier, Guy; and Bossard, Jean-Paul, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Hyperfrequency energy plasma torch. 4,645,973, 2-24-87, Cl. 315-39.000.
Salinier, Guy; and Bossard, Jean-Paul, to L'Air Liquide, Societe Anonyme pour l'Etude et lExploitation des Procedes Georges Claude. Method for heat treating with a microwave plasma torch. 4,652,723, 3-24-87, Cl. 219-121.0PY.
Salisbury, Darrell P.: *See*—
Clapper, Dennis K.; Perricone, Alphonse C.; and Salisbury, Darrell P., 4,663,076, Cl. 252-356.000.
Salisbury, Jeffery. Anchor for mortarless block wall system. 4,660,342, 4-28-87, Cl. 52-358.000.
Salisbury, John K., Jr.; and Brock, David L., to Massachusetts Institute of Technology. Force sensing apparatus. 4,635,479, 1-13-87, Cl. 73-862.040.
Salisbury, Richard; and Wyman, Stephen W., to Loctite Corporation. Curing oven for adhesive. 4,694,180, 9-15-87, Cl. 250-455.100.
Salisbury, William F. Exercise device. 4,651,985, 3-24-87, Cl. 272-68.000.
Saliterman, Steven S. Hemodynamic monitoring trainer. 4,642,055, 2-10-87, Cl. 434-268.000.
Salje, Ernst. Dressing-grinding process and electronically controlled grinding machine. 4,640,057, 2-3-87, Cl. 51-165.870.
Salje, Ernst; and Plester, Jorg, to Salje, Ernst. Disc-shaped tool. 4,641,561, 2-10-87, Cl. 83-835.000.
Salk Institute for Biological Studies, The: *See*—
Baird, J. Andrew, 4,643,989, Cl. 514-12.000.
Bohlen, Peter; and Dennert, Gunther, 4,675,383, Cl. 530-351.000.
Kaiser, Emil T.; and Velicelebi, Gonul, 4,689,318, Cl. 514-12.000.
Kornreich, Wayne D.; Anderson, Harry A.; Porter, John S.; and Rivier, Jean E. F., 4,701,499, Cl. 525-333.300.
Patrick, James W.; Heinemann, Stephen F.; Boss, Barbara D.; and Cowan, W. Maxwell, 4,652,629, Cl. 530-326.000.
Patrick, James W.; Heinemann, Stephen F.; Boss, Barbara D.; and Cowan, W. Maxwell, 4,707,356, Cl. 424-88.000.
Rivier, Jean E. F.; and Vale, Wylie W., Jr., 4,652,550, Cl. 514-15.000.
Rivier, Jean E. F.; Varga, Janos L.; Hagler, Arnold T.; Struthers, R. Scott; Perrin, Marilyn H.; Rivier, Catherine L.; and Vale, Wylie W., Jr., 4,661,472, Cl. 514-15.000.
Rivier, Jean E. F.; Anderson, Harry A.; and Vale, Wylie W., Jr., 4,677,193, Cl. 530-313.000.
Rivier, Jean E. F.; Spiess, Joachim; and Vale, Wylie W., Jr., 4,703,035, Cl. 514-12.000.
Roeske, Roger W.; Rivier, Jean E. F.; and Vale, Wylie W., Jr., 4,689,396, Cl. 530-313.000.
Salkeld, Melvin R.; Langeland, Wayne E.; and Kennedy, Jerry L., to Lakeside Equipment Corporation. Sidewall mounted clarifier. 4,634,526, 1-6-87, Cl. 210-194.000.
Salkin, Herve: *See*—
Grare, Didier; and Salkin, Herve, 4,700,576, Cl. 73-761.000.
Sallai, Mihaly: *See*—
Nemeth, Attila; Dolozselek, Gyula; Mikics, Laszlo; Molnar, Bela; Sallai, Mihaly; Liska, Sandor; and Speck, Gyula, 4,670,901, Cl. 379-292.000.
Sallas, John J., to Texas Instruments Incorporated. Seismic source vibrator having self tuning controller. 4,637,002, 1-13-87, Cl. 367-190.000.
Sallas, John J.; and Trevino, Toby R., to Texas Instruments Incorporated. Vibrator seismic source having adaptive distortion limiting control system. 4,670,863, 6-2-87, Cl. 367-190.000.
Sallavanti, Robert A.: *See*—
Clarke, Steven R.; Price, John B.; Sallavanti, Robert A.; and Zawislak, Stephen P., 4,698,956, Cl. 57-2.000.
Salle de Chou, Jacques: *See*—
Burger, Jacques; Gadelle, Claude; and Salle de Chou, Jacques, 4,685,836, Cl. 405-264.000.
Salle, Ralph D.: *See*—
McColl, John W.; Mott, Philip J.; and Salle, Ralph D., 4,706,789, Cl. 192-0.075.
Sallee, John P.: *See*—
McLain, Bruce H., Sr.; and Sallee, John P., 4,652,988, Cl. 363-146.000.
Sallee, Lorry F.; and Popp, Robert L., to Kimberly-Clark Corporation. Heat activation process and apparatus for heat shrinkable material. 4,640,726, 2-3-87, Cl. 156-85.000.
Saller, Helmut: *See*—
Mayr, Ernst; and Saller, Helmut, 4,664,472, Cl. 350-96.230.
Saller, Henry A., deceased (by Saller, Marjorie, executrix); Hodge, Edwin S.; Paprocki, Stanley J.; and Dayton, Russell W., to United States of America, Energy. Method of bonding. 4,709,848, 12-1-87, Cl. 228-159.000.
Saller, Kenneth R.; and Rentel, Kurt R., to Comlinear Corporation. Offset reduction in unity gain buffer amplifiers. 4,639,685, 1-27-87, Cl. 330-263.000.
Saller, Marjorie, executrix: *See*—
Saller, Henry A., deceased; Hodge, Edwin S.; Paprocki, Stanley J.; and Dayton, Russell W., 4,709,848, Cl. 228-159.000.
Salley, Frank. Rotary air lock feeder. 4,710,067, 12-1-87, Cl. 406-64.000.

Sallis, Daniel V.: *See*—
Wolf, James L.; Bardwick, Alan S.; and Sallis, Daniel V., 4,662,537, Cl. 221-89.000.

Sallmann, Alfred: *See*—
Beck, Andreas; Sallmann, Alfred; Lang, Robert W.; and Wenk, Paul, 4,670,604, Cl. 568-337.000.

Sally, Theodore J.: *See*—
Morris, Earl L.; Sally, Theodore J.; and Hahn, Ron T., 4,659,059, Cl. 251-54.000.

Salman, Mutasim A.: *See*—
Kade, Alexander; Hopkins, Harland G.; and Salman, Mutasim A., 4,664,453, Cl. 303-100.000.

Salmi, Pekka; and Muuttonen, Timo, to Oy Tampella AB. Coupling arrangement for a drill shank of a percussion drilling machine. 4,702,326, 10-27-87, Cl. 173-104.000.

Salmi, Pekka: *See*—
Heideman, Torsten; Levander, Kai; and Salmi, Pekka, 4,702,187, Cl. 114-40.000.

Salminen, Ari, to Tamfelt Oy Ab. Improvements relating to belts of inter-woven spiral wires. 4,695,015, 9-22-87, Cl. 245-6.000.

Salminen, Ari: *See*—
Cedercreutz, Axel; and Salminen, Ari, 4,681,287, Cl. 245-6.000.

Salminen, Karl O.; Heino, Heimo J.; Lehtonen, Pertti T.; Koskinen, Seppo V.; Kivisto, Tuomo V.; Rinta-Keturi, Lasse J.; and Sipila, Heikki J., to Outokumpu Oy. Method and apparatus for arranging fragmentary particles into a row consisting of individual particles. 4,703,846, 11-3-87, Cl. 198-631.000.

Salmon, Garland R., to Newton Instrument Company. Telephone equipment rack. 4,715,502, 12-29-87, Cl. 211-26.000.

Salmon, Guy: *See*—
Chevroulet, Leon; and Salmon, Guy, 4,652,226, Cl. 425-147.000.
Chevroulet, Leon; and Salmon, Guy, 4,685,875, Cl. 425-136.000.

Salmon, James R., to Rowcycle. Rowing type vehicle. 4,700,962, 10-20-87, Cl. 280-220.000.

Salmon, Jean: *See*—
Jouquey, Alain; Salmon, Jean; Mouren, Michel; and Touyer, Gaetan, 4,639,336, Cl. 260-397.500.
Jouquey, Alain; Veltz, Jean-Noel; Salmon, Jean; and Mouren, Michel, 4,661,295, Cl. 260-397.450.

Salmon, Michael E. Foot pods. 4,645,257, 2-24-87, Cl. 296-75.000.

Salmon, Michael E. Vehicle steering system. 4,657,271, 4-14-87, Cl. 280-95.00R.

Salmon, Michael E.; and Hunkele, Paul W. Go-cart. 4,682,668, 7-28-87, Cl. 180-209.000.

Salmon, Michael E., to Murphy, Thomas. Adjustable pedal assembly. 4,683,977, 8-4-87, Cl. 180-334.000.

Salmon, Roger: *See*—
McDonald, Edward; and Salmon, Roger, 4,661,488, Cl. 514-256.000.

Salmon, Stuart C. Grinding and dressing wheel support and release apparatus. 4,683,679, 8-4-87, Cl. 51-5.00D.

Salmond, Kent A.; and Cone, Gail P., to Braegen Corporation, The. Network system for connecting multiple I/O devices to computers. 4,677,613, 6-30-87, Cl. 370-85.000.

Salmons, David W.: *See*—
Kramer, Robert A.; Rusk, Terrance P.; and Salmons, David W., 4,646,940, Cl. 222-1.000.

Salmons, Victor: *See*—
Pajak, Phillip; Salmons, Victor; and Chan, Tony, 4,711,451, Cl. 273-143.00R.

Salo, Eric A. Method and means for increasing energy output and thermal efficiency of an energy cycle such as the Rankine steam cycle. 4,715,185, 12-29-87, Cl. 60-677.000.

Salo, Rodney W., to Cardiac Pacemakers, Inc. Method and apparatus for measuring ventricular volume. 4,674,518, 6-23-87, Cl. 128-695.000.

Salo, Rodney W.; and Pederson, Brian D., to Cardiac Pacemakers, Inc. Biomedical method and apparatus for controlling the administration of therapy to a patient in response to changes in physiologic demand. 4,686,987, 8-18-87, Cl. 128-419.0PG.

Salo, Timo: *See*—
Alsen, Per; and Salo, Timo, 4,710,070, Cl. 408-93.000.

Saloff, David: *See*—
Saloff, William S.; and Saloff, David, 4,643,481, Cl. 297-458.000.
Saloff, William S.; and Saloff, David. Seat system for preventing decubiti. 4,643,481, 2-17-87, Cl. 297-458.000.

Saloka, George S.: *See*—
Meitzler, Allen H.; and Saloka, George S., 4,645,975, Cl. 315-82.000.

Salokangas, Arto, to Oy Ekofinn Ab. Biological filter heating arrangement for treatment of waste water. 4,693,816, 9-15-87, Cl. 210-150.000.

Salomatina, Irina S.: *See*—
Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.

Salomon, Georges P. J.; and Quellais, Jacques, to Salomon S.A. Ski binding for use in cross-country or mountaineer skiing. 4,647,064, 3-3-87, Cl. 280-615.000.

Salomon, Georges P. J., to Salomon S.A. Pivotable ski binding assembly comprising a braking system. 4,687,221, 8-18-87, Cl. 280-605.000.

Salomon, Ingeborg: *See*—
Obermeier, Rainer; Salomon, Ingeborg; and Ludwig, Jurgen, 4,681,931, Cl. 530-351.000.

Salomon, Lothar H. Mechanical fluid indicator. 4,709,653, 12-1-87, Cl. 116-228.000.

Salomon, Robert E., to Temple University of the Commonwealth System of Higher Education. Gas concentration cells for utilizing energy. 4,677,038, 6-30-87, Cl. 429-11.000.

Salomon S.A.: *See*—
Benoit, Louis; and Perrissoud, Claude, 4,665,635, Cl. 36-120.000.
Benoit, Louis; and Nerrinck, Bernard, 4,672,755, Cl. 36-117.000.
Benoit, Louis; Mabboux, Michel; Nerrinck, Bernard; and De Marchi, Jean-Louis, 4,677,768, Cl. 36-117.000.
Benoit, Louis; Nerrinck, Bernard; Morell, Joseph; and Petrini, Roland, 4,698,920, Cl. 36-50.000.
De Marchi, Jean-Louis; Mabboux, Michel; Paris, Jean; and Kopp, Norbert, 4,677,770, Cl. 36-120.000.
De Marchi, Jean-Louis, 4,682,426, Cl. 36-50.000.
Dimier, Jean-Pierre; and Bourdeau, Joel, 4,688,822, Cl. 280-628.000.
Dimier, Jean-Pierre; and Bourdeau, Joel, 4,699,396, Cl. 280-628.000.
Dimier, Jean-Pierre; and Rullier, Pierre, 4,709,942, Cl. 280-618.000.
Gasquet, Denis; and Desarmaux, Pierre, 4,676,520, Cl. 280-605.100.
Hue, Jean, 4,676,522, Cl. 280-615.000.
Morell, Joseph; Benoit, Louis; and Bonnet, Maurice, 4,633,599, Cl. 36-50.000.
Morell, Joseph, 4,646,401, Cl. 24-68.0SK.
Morell, Joseph; Benoit, Louis; and Bonnet, Maurice, 4,653,204, Cl. 36-117.000.
Morell, Joseph; Benoit, Louis; and Bonnet, Maurice, 4,660,300, Cl. 36-50.000.
Morell, Joseph; De Marchi, Jean-Louis; and Kopp, Norbert, 4,709,491, Cl. 36-121.000.
Morell, Joseph; and Demarchi, Jean-Louis, 4,711,042, Cl. 36-50.000.
Morell, Joseph; and Petrini, Roland, 4,712,315, Cl. 36-117.000.
Pascal, Roger; and Girault, Denis, 4,657,279, Cl. 280-636.000.
Pascal, Roger; and Dimier, Jean P., 4,679,815, Cl. 280-618.000.
Pascal, Roger; and Rullier, Pierre, 4,684,147, Cl. 280-628.000.
Petrini, Roland; and Morell, Joseph, 4,694,593, Cl. 36-120.000.
Rochard, Jean-Claude; and Kopp, Norbert, 4,644,670, Cl. 36-117.000.
Rullier, Pierre, 4,639,011, Cl. 280-628.000.
Salomon, Georges P. J.; and Quellais, Jacques, 4,647,064, Cl. 280-615.000.
Salomon, Georges P. J., 4,687,221, Cl. 280-605.000.

Salou, Catherine: *See*—
Guittard, Christine; and Salou, Catherine, 4,650,683, Cl. 426-103.000.

Salour, Michael M.; and Fehrenbach, Gustav W., to United States of America, Air Force. Distortion free fiber optic system. 4,639,075, 1-27-87, Cl. 350-96.160.

Salour, Michael M.; Schoner, Gerhard; Bechtel, James H.; and Kull, Martin, to Tacan Corporation. Fiber-optic sensor with two different wavelengths of light traveling together through the sensor head. 4,703,175, 10-27-87, Cl. 250-227.000.

Salovaara, Esa: *See*—
Kuusela, Juhani; Loppert, Esko; Lummila, Markku; Saksala, Pertti; Salovaara, Esa; Suhonen, Tuomo; Perttina, Harri; Poikolainen, Esko; and Trygg, Hannu, 4,700,953, Cl. 277-38.000.

Salowe, Seymour, to Westinghouse Electric Corp. System for detecting a program execution fault. 4,635,258, 1-6-87, Cl. 371-16.000.

Salowe, Seymour; and Mallick, George T., Jr., to Westinghouse Electric Corp. Storage of data in compressed form. 4,670,891, 6-2-87, Cl. 377-20.000.

Salpekar, Anil M.; and Denton, Larry E., to Mallinckrodt, Inc. Direct tableting acetaminophen compositions. 4,661,521, 4-28-87, Cl. 514-613.000.

Salsbury, Ronald L.: *See*—
Vit, Jaroslav; Salsbury, Ronald L.; and Henderson, Don J., 4,693,986, Cl. 501-1.000.

Salsgiver, James A.: *See*—
Shen, Tien-Hung; and Salsgiver, James A., 4,680,062, Cl. 148-111.000.

Salsman, Robert W., Jr.: *See*—
Callegari, Stephen R., Sr.; Harrison, Luther A.; and Salsman, Robert W., Jr., 4,701,869, Cl. 364-562.000.

Salsness, Arthur H. Gate latch. 4,683,934, 8-4-87, Cl. 160-328.000.

Salstrom, John S.; Newman, Dawn; Harbrecht, Douglas F.; and Hu, Shiu-Lok, to Molecular Genetics Research and Development Limited Partnership. Plasmid cloning and expression vectors for use in microorganisms. 4,634,678, 1-6-87, Cl. 435-317.000.

Salstrom, John S.: *See*—
Weis, John H.; and Salstrom, John S., 4,663,290, Cl. 435-253.000.

Saltarelli, Robert: *See*—
Hawkins, Nicholas J.; and Saltarelli, Robert, 4,716,518, Cl. 364-184.000.

Salter, Anthony J. Pipe supports. 4,640,487, 2-3-87, Cl. 248-571.000.

Salter, Larry, to Briles, Paul R. Apparatus for reducing installation forces and costs in a tapered bolt installation. 4,702,658, 10-27-87, Cl. 411-426.000.

Salter, Stephen J.: *See*—
Pathak, Prabodh; and Salter, Stephen J., 4,683,951, Cl. 166-271.000.
Pathak, Prabodh; Salter, Stephen J.; Gonzalez, Jay A.; and Perkins, Thomas K., 4,687,059, Cl. 166-271.000.

Thach, Sophany; Salter, Stephen J.; Meyers, Kevin O.; and Giordano, Ronald M., 4,701,271, Cl. 252-8.554.

Salton, Inc.: *See*—
Mark, Andrew, 4,660,793, Cl. 248-231.800.

Salton, Lewis L. Electric hot water heater. 4,645,907, 2-24-87, Cl. 219-309.000.

Salton, Robert B.: *See*—
Fensterer, Howard F.; Klassen, William E.; Veronesi, Luciano; Boyle, David E.; and Salton, Robert B., 4,661,306, Cl. 376-209.000.
Sherwood, Donald G.; Wilson, John F.; Salton, Robert B.; and Fensterer, Howard F., 4,692,296, Cl. 376-209.000.
Tower, Stephen N.; Braun, Howard E.; Boyle, David E.; and Salton, Robert B., 4,693,862, Cl. 376-209.000.

Salts, Thomas R., to Besser Company. Bag palletizing system. 4,712,975, 12-15-87, Cl. 414-786.000.

Saltzman, Jeremy; Dwyer, John J.; and Hipp, Betsy, to Dictaphone Corporation. Method and apparatus for displaying indications of instructions in previously recorded messages. 4,677,501, 6-30-87, Cl. 360-72.200.

Saltzman, Jeremy: *See*—
Dwyer, John J.; Saltzman, Jeremy; and Hipp, Betsy, 4,688,117, Cl. 360-72.300.
Hipp, Betsy; Saltzman, Jeremy; and Dwyer, John J., 4,686,587, Cl. 360-74.200.

Salukvadze, Nana A.: *See*—
Gaprindashvili, Khanzerifa I.; Kogan, Vadim E.; Kekelia, Dzhemal I.; Pronkin, Alexei A.; Salukvadze, Nana A.; Bakuradze, Georgy V.; and Evstropiev, Konstantin K., deceased, 4,649,126, Cl. 501-43.000.

Saluski, Robert A., to GTE Communication Systems Corporation. Real time usage indicator for a processor system. 4,677,580, 6-30-87, Cl. 364-569.000.

Saluski, Robert A., to GTE Communication Systems Corporation. Real time usage meter for a processor system. 4,713,791, 12-15-87, Cl. 364-900.000.

Salutar, Inc.: *See*—
Quay, Steven C., 4,637,929, Cl. 424-9.000.
Quay, Steven C., 4,687,658, Cl. 424-9.000.
Quay, Steven C., 4,687,659, Cl. 424-9.000.

Salva, Fedor M.: *See*—
Brahm, Leroy D.; Brown, Frank C.; Ciarlone, David F.; Dedrich, Mark R.; Hassall, James B.; and Salva, Fedor M., 4,699,752, Cl. 376-260.000.

Salvador, Jean-Louis; and Bosquain, Denis, to Regie Nationale des Usines Renault. Method and apparatus for determining the coordinates of a contact point on a resistive type semianalog sensitive surface. 4,700,022, 10-13-87, Cl. 178-18.000.

Salvadori, Luigi, to Becromal S.p.A. Method for the production of an aluminum foil for electrolytic capacitors, and electrolytic capacitors thus produced. 4,676,879, 6-30-87, Cl. 204-129.750.

Salvage, Seward T.; Belcher, Donald K.; and Rosier, Charles D., to Harris Corporation. Phase-compensated FET attenuator. 4,700,153, 10-13-87, Cl. 333-81.00R.

Salvagnini, Guido, to Salvagnini Transferica S.p.A. Punch press with a number of selectable punches. 4,650,114, 3-17-87, Cl. 234-114.000.

Salvagnini Transferica S.p.A.: *See*—
Salvagnini, Guido, 4,650,114, Cl. 234-114.000.

Salvail, Napoleon P. Apparatus for dispensing carbonated beverage from containers. 4,715,516, 12-29-87, Cl. 222-153.000.

Salvarezza, Robert M. Rope ladder with molded hard elastomer steps and method for assemblying the ladder therefor. 4,655,321, 4-7-87, Cl. 182-196.000.

Salvarezza, Robert M. Molded hard elastomer steps and replacement and spreader steps for rope ladders and fittings therefor, as well as molding method therefor. 4,683,981, 8-4-87, Cl. 182-199.000.

Salvati, Patricia: *See*—
Bernardi, Luigi; Temperilli, Aldemio; Mantegani, Sergio; Traquandi, Gabriella; and Salvati, Patricia, 4,657,914, Cl. 514-288.000.
Bernardi, Luigi; Temperilli, Aldemio; Bosisio, Germano; Traquandi, Gabriella; Eccel, Rosanna; Rossi, Alessandro; and Salvati, Patricia, 4,675,404, Cl. 544-238.000.
Bernardi, Luigi; Chiodini, Laura; Mantegani, Sergio; Ruggieri, Daniela; Temperilli, Aldemio; and Salvati, Patricia, 4,690,929, Cl. 514-288.000.

Salvatora, David A.: *See*—
Brosius, Karl S.; Justus, Scott B.; and Salvatora, David A., 4,640,815, Cl. 419-8.000.
Haswell, Walter T., Jr.; Brosius, Karl S.; Justus, Scott B.; and Salvatora, David A., 4,640,814, Cl. 419-8.000.

Salvatore, Donna M.: *See*—
Walker, Robert H.; Palmer, David A.; Salvatore, Donna M.; and Bernier, Edward J., 4,670,473, Cl. 518-706.000.

Salvatore, Osvaldo: *See*—
Ferrero, Mario; Coppa, Paolo; and Salvatore, Osvaldo, 4,700,042, Cl. 219-110.000.

Salvet, Miroslav: *See*—
Krovak, Premysl; Benunek, Vladimir; Vojtisek, Vladimir; Salvet, Miroslav; and Hasal, Pavel, 4,683,062, Cl. 210-617.000.
Krovak, Premysl; and Salvet, Miroslav, 4,684,614, Cl. 435-316.000.

Salvetat, Jacques: *See*—
Runavot, Yves; Thiot, Andre; and Salvetat, Jacques, 4,698,405, Cl. 526-347.000.

Salvetti, Gianemilio: *See*—
Armandillo, Errico; Salvetti, Gianemilio; and Giuliani, Giampiero, 4,682,893, Cl. 356-356.000.

Salvi, Francisco J. Closure for a cooking oven. 4,683,871, 8-4-87, Cl. 126-340.000.

Salvik, Walter: *See*—
Lattion, Andre; Bischofberger, Jurg; Salvik, Walter; Stapfer, Jakob; and Schreiber, Manfred, 4,689,945, Cl. 57-263.000.

Salvisberg, Kurt: *See*—
Erni, Markus; Salvisberg, Kurt; and Zund, Marcel, 4,656,465, Cl. 340-679.000.
Erni, Markus; and Salvisberg, Kurt, 4,715,550, Cl. 242-39.000.

Salvo, E. Vincent, to United States Gypsum Company. Modified runner and area separation wall structure utilizing runner. 4,672,785, 6-16-87, Cl. 52-241.000.

Salvucci, Antonio: *See*—
Princiotta, Raymond A., Sr.; and Salvucci, Antonio, 4,712,787, Cl. 271-311.000.

Saly, Amnon: *See*—
Akerman, Moshe; and Saly, Amnon, 4,665,857, Cl. 114-261.000.

Salyer, Alan. Weight exercise machine. 4,657,246, 4-14-87, Cl. 272-117.000.

Salyer, Gregory: *See*—
Oman, Price W.; Rinaldi, Mark A.; Russo, Vito W.; and Salyer, Gregory, 4,635,186, Cl. 364-200.000.

Salyer, Ival O., to University of Dayton. Polyethylene composites containing a phase change material having a C14 straight chain hydrocarbon. 4,711,813, 12-8-87, Cl. 428-402.000.

Salz, Jack: *See*—
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Salz, Ulrich: *See*—
Ruechardt, Christoph; Jaehme, Joachim; and Salz, Ulrich, 4,691,020, Cl. 546-341.000.

Salzburg, Herbert; Hajek, Manfred; and Hanssler, Gerd, to Bayer Aktiengesellschaft. 3-hydrazono-benzisothiazole 1,1-dioxide fungicides. 4,666,930, 5-19-87, Cl. 514-373.000.

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Salzburg, Herbert: *See*—
Hajek, Manfred; Salzburg, Herbert; and Zietmann, Heinz, 4,642,344, Cl. 544-196.000.

Salzer, Heinrich. Device for indicating the movement and/or position of a shutoff means. 4,661,805, 4-28-87, Cl. 340-545.000.

Salzer, Lorenz, to Bayerische Motoren Werke Aktiengesellschaft. Method and apparatus for the operation of an internal combustion engine. 4,649,885, 3-17-87, Cl. 123-492.000.

Salzer, William E., to Motorola Inc. Circuit and method for adding green synchronization pulse to red and blue video signals. 4,709,255, 11-24-87, Cl. 358-27.000.

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Neuhauser, Johannn; and Brauch, Hans-Joachim, 4,683,764, Cl. 74-41.000.

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Strong, Bobby D.; Martin, Robert C.; Ovens, Kevin M.; and Salzman, James F., 4,704,548, Cl. 307-456.000.

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Wenkman, Gregory J.; and Salzmann, Ferdinand F., 4,697,780, Cl. 248-558.000.

Salzmann, Kurt: *See*—
Schindl, Klaus P.; Meitz, Franz; and Salzmann, Kurt, 4,711,537, Cl. 350-531.000.

Salzmann, Theodor: *See*—
Marquardt, Rainer; Salzmann, Theodor; and Peppel, Michael, 4,682,278, Cl. 363-58.000.
Peppel, Michael; and Salzmann, Theodor, 4,674,023, Cl. 363-57.000.

Salzmann, Thomas N.: *See*—
Christensen, Burton G.; Salzmann, Thomas N.; and Heck, James V., 4,680,292, Cl. 514-210.000.

Sam Dick Industries, Inc.: *See*—
Moraski, Dennis P.; and Sadler, Bryon L., 4,645,904, Cl. 219-275.000.

Sam, George J., Sr.: *See*—
Gabriele, Joseph M.; Sam, George J., Sr.; Wolfe, John N.; and Parekh, Navinchandra J., 4,691,333, Cl. 378-37.000.

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Samac, Inc.: *See*—
Sloan, Harry W., 4,668,149, Cl. 414-80.000.

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Siskind, Leland B. M.; Samaha, William A.; and Warsiaw, Thayer S., 4,633,548, Cl. 24-145.000.
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Samaria, Carlos E. E. Clamp to be actuated by a hand prothesis. 4,666,451, 5-19-87, Cl. 623-65.000.
Samario, Edward J., to United States of America, Navy. Modified null flow modulator. 4,662,581, 5-5-87, Cl. 244-3.220.
Sambayashi, Takeshi, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,711,559, 12-8-87, Cl. 355-14.00D.
Samberg, Jehuda: *See—*
Frankel, Harry; Samberg, Jehuda; Bendheim, Uri; Rivan, Jehudith; and Babazada, Mordechai, 4,674,490, Cl. 128-200.140.
Samberg, Michael, to Talon, Inc. Method and apparatus for gapping slide fastener chain. 4,663,817, 5-12-87, Cl. 29-408.000.
Sambucetti, Carlos J.: *See—*
Amelio, William J.; Markovich, Voya; Sambucetti, Carlos J.; and Trevitt, Donna J., 4,654,126, Cl. 204-1.00T.
Sambuis, Bernard; and Gavory, Daniel, to Vulnax International Limited. Ozone-stabilized rubbery elastomers. 4,638,026, 1-20-87, Cl. 524-98.000.
Sambursky, Michael H., to K & S Systems, Inc. Locking switch for automobile electrical systems and the like. 4,673,776, 6-16-87, Cl. 200-43.080.
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Sameca S.A.: *See—*
Geiser, Markus; and Vandevoir, Claude, 4,640,157, Cl. 82-2.700.
Geiser, Markus; and Vandevoir, Claude, 4,679,470, Cl. 82-2.700.
Juillerat, Pierre, 4,649,779, Cl. 82-2.700.
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Samejima, Ichiro: *See—*
Makihara, Katsumi; Yanagi, Kenichi; Fukushima, Takeo; Suganuma, Namio; Samejima, Ichiro; and Takahashi, Seiichi, 4,638,851, Cl. 165-32.000.
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Samejima, Natsuki: *See—*
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Samek, Norbert E., to IMO Delaval Inc. Biaxial strain gage systems. 4,683,755, 8-4-87, Cl. 73-727.000.
Samel, S.A.: *See—*
Proellochs, Francois, 4,645,102, Cl. 224-178.000.
Sames S.A.: *See—*
Chabert, Pierre; and Tholome, Roger, 4,660,771, Cl. 239-694.000.
Tholome, Roger; and Burtin, Jean-Pierre, 4,672,500, Cl. 361-93.000.
Sames, William C.: *See—*
Fenton, Ronald I.; and Sames, William C., 4,673,098, Cl. 220-88.00A.
Sameshima, Mutsuro: *See—*
Yoshimura, Takeshi; Sameshima, Mutsuro; Nakanishi, Toru; and Kato, Shigeo, 4,641,620, Cl. 123-432.000.
Sameshima, Tadashi: *See—*
Yamamoto, Yuichi; and Sameshima, Tadashi, 4,705,628, Cl. 210-289.000.
Sameshima, Yoichi: *See—*
Leevy, Carroll M.; Sameshina, Yoichi; and Kanagasundaram, Natarajan, 4,689,298, Cl. 435-240.270.
Samber, Wolfgang; and Renn, Werner, to Proton AG. Sampling apparatus for a biological reactor. 4,695,551, 9-22-87, Cl. 435-292.000.
Samwa Electric Industrial Co.: *See—*
Chung, Ki Ho, 4,692,833, Cl. 361-91.000.
SAMM Societa Azionaria Minero-Metallurgica, S.p.A.: *See—*
Sammi, Sergio; D'Este, Arturo; and Pescetelli, Alessandro, 4,637,832, Cl. 75-109.000.
Samn S.p.A.: *See—*
Guerriero, Renato; Tangerini, Ilario; and Vittadini, Italo, 4,676,338, Cl. 181-294.000.
Samn, Philip L. Engraving apparatus having improved bearing and stern. 4,687,390, 8-18-87, Cl. 409-92.000.
Samma, Hiromasa: *See—*
Takahashi, Akira; Shibahara, Kazuo; Morimoto, Katsuhiro; Samma, Hiromasa; and Kubo, Kazuhiko, 4,647,499, Cl. 428-312.600.
Sammons, Anthony F., to Eltron Research, Inc. Solvated electron system electrode for high energy density battery. 4,668,593, 5-26-87, Cl. 429-191.000.
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Sammons, Gregg J., to Fournier Accessory Furniture, Inc. Multi-purpose furniture swivel assembly. 4,635,894, 1-13-87, Cl. 248-558.000.
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Loriot, Pierre; Rendu, Michel; Rousseau, Jean; and Samoel, Alain, 4,678,924, Cl. 29-407.000.
Samosky, Paul E.; Corrigan, John J.; Morehouse, Dale H.; and Szkaradek, Edward J., to Morehouse Industries, Inc. Horizontal media mill. 4,651,935, 3-24-87, Cl. 241-65.000.
Sampatacos, Evan P.: *See—*
Kramer, S. Bertram; and Sampatacos, Evan P., 4,715,263, Cl. 89-37.210.
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Chung, Harold S.; Sampath, Krishnaswamy; and Schwab, Frederick C., 4,653,585, Cl. 166-275.000.
Phelps, Craig H.; and Sampath, Krishnaswamy, 4,667,741, Cl. 166-274.000.
Sampath, T. K.: *See—*
Nathanson, Mark A.; Reddi, A. H.; and Sampath, T. K., 4,681,763, Cl. 424-95.000.
Sampathkumar, Padmini, to Procter & Gamble Company, The. Treatment of oral diseases. 4,670,252, 6-2-87, Cl. 424-53.000.
Sampathkumar, Padmini, to Procter & Gamble Company, The. Oral compositions and methods for treating gingivitis. 4,716,035, 12-29-87, Cl. 424-52.000.
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Sample, Charles A.; and Lotto, Ronald L., to FMC Corporation. Sheet stacking and transferring device. 4,668,147, 5-26-87, Cl. 414-27.000.
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Samples, John R.; and Lewy, Alfred J., to State of Oregon, acting by and through the Oregon State Board of Higher Education, acting for and on behalf of the Oregon Health Sciences University. Method of lowering intraocular pressure using melatonin. 4,654,361, 3-31-87, Cl. 514-419.000.
Sampson, Arthur J., Jr.: *See—*
Mattingly, William B., III; Cabe, Alex W., Jr.; Chapas, Richard B.; and Sampson, Arthur J., Jr., 4,690,679, Cl. 604-383.000.
Sampson, David C., to BOC Group plc, The. Mixing apparatus for gases. 4,714,090, 12-22-87, Cl. 137-636.000.
Sampson, Harold J.: *See—*
Heys, George, Jr.; Aleshire, Rex A.; and Sampson, Harold J., 4,698,707, Cl. 360-99.000.
Sampson, Karla: *See—*
Kao, Shui-Hsi; Kay, Allen I.; and Sampson, Karla, 4,696,814, Cl. 424-80.000.
Sampson, Kendree J.: *See—*
Jenkins, Waylon L.; Hodge, Deborah T.; and Sampson, Kendree J., 4,649,186, Cl. 526-87.000.
Sampson, Lloyd D.: *See—*
Wendling, Paul R.; and Sampson, Lloyd D., 4,650,004, Cl. 169-85.000.
Sampson, Mark E.; and Rosen, Marvin E., to Doboy Packaging Machinery, Inc. Thread chaining detector. 4,696,244, 9-29-87, Cl. 112-262.100.
Sampson, Peter F.: *See—*
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,652,115, Cl. 355-14.0TR.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,697,920, Cl. 355-14.0CH.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,699,079, Cl. 118-658.000.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,705,385, Cl. 355-4.000.
Sampson, Robert; and Flanigan, Sean, to Wasco Products, Inc. Skylight sealing. 4,702,049, 10-27-87, Cl. 52-200.000.
Sampson, Robert; and Flanigan, Sean, to Wasco Products, Inc. Skylight sealing. 4,703,592, 11-3-87, Cl. 52-200.000.
Sampson, Robert L. Log holder device. 4,678,170, 7-7-87, Cl. 269-296.000.
Sampson, Ronald. Automatic closing activator. 4,706,330, 11-17-87, Cl. 16-48.500.

Sampson, Samuel O., Jr. Wheel chair table system. 4,679,509, 7-14-87, Cl. 108-27.000.

Samson, Dennis J.; and Alcorn, George R., to Rogers Walla-Walla, Inc. Apparatus for helical cutting of potatoes. 4,644,838, 2-24-87, Cl. 83-865.000.

Samson, Dominique H. P. M.: *See—*
Lucas, Jacques D. H.; and Samson, Dominique H. P. M., 4,635,949, Cl. 277-235.00B.

Samson, Joseph E.; Wolff, Kenneth T.; Reid, Robert; Hendrie, Gardner C.; Falkoff, Daniel M.; Dynneson, Ronald E.; Clemson, Daniel M.; and Baty, Kurt F., to Stratus Computer, Inc. Digital data processor with high reliability. 4,654,857, 3-31-87, Cl. 371-68.000.

Samson, Marc: *See—*
Andrade, Juan; Prescher, Guenter; and Samson, Marc, 4,675,451, Cl. 568-486.000.

Samson, Robert, to Motorola, Inc. Discrete component mounting assembly. 4,638,406, 1-20-87, Cl. 361-403.000.

Samson, Sam; and Gruenspecht, Mark J. Inflatable aquatic device. 4,690,651, 9-1-87, Cl. 441-56.000.

Samson, Victoria M.: *See—*
Saladino, Salvatore; and Samson, Victoria M., 4,639,376, Cl. 426-134.000.

Samson, Wilfred J.; and Frisbie, Jeffrey S., to Advanced Cardiovascular Systems, Inc. Steerable balloon dilatation catheter assembly having dye injection and pressure measurement capabilities. 4,641,654, 2-10-87, Cl. 128-344.000.

Samson, Wilfred J.: *See—*
Frisbie, Jeffrey S.; Samson, Wilfred J.; and Hoek, John V., 4,664,113, Cl. 128-344.000.

Samsonite Corporation: *See—*
King, William L.; and Weisbart, Charles K., 4,662,513, Cl. 206-287.100.
King, William L., 4,685,560, Cl. 206-287.100.
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Mobley, Lawrence R.; and Gregg, James S., 4,640,414, Cl. 206-287.000.
Mobley, Lawrence R.; Nordstrom, Mark B.; and Winter, Roger D., 4,713,860, Cl. 16-111.00R.
Van Hoye, Willibald, 4,707,881, Cl. 16-44.000.

Samsung Co., Ltd.: *See—*
Seo, Soo C., 4,658,928, Cl. 180-168.000.

Samsung Electronics Co., Ltd.: *See—*
An, Hee K., 4,665,452, Cl. 360-96.500.
Chung, Bong-Kwan, 4,690,473, Cl. 439-1.000.
Kang, Yun H.; Im, Wha S.; and Lee, Kil S., 4,642,998, Cl. 62-187.000.
Kim, Jin H., 4,695,906, Cl. 360-85.000.
Min, Seong K.; Kim, Yong J.; Lee, Hee W.; and Chun, Chul G., 4,685,009, Cl. 360-95.000.
Park, Beom C., 4,686,444, Cl. 320-31.000.
Seo, Sun K., 4,663,091, Cl. 261-72.100.

Samtleben, Walter: *See—*
Schmidt, Baerbel; Samtleben, Walter; and Lysaght, Michael J., 4,639,243, Cl. 604-6.000.

Samuel, David: *See—*
Shanzer, Abraham; and Samuel, David, 4,649,218, Cl. 564-197.000.
Shinitzky, Meir; Heron, David; and Samuel, David, 4,677,099, Cl. 514-78.000.

Samuel, Glenn W. Multiple-unit HVAC energy management system. 4,711,394, 12-8-87, Cl. 236-49.000.

Samuel, Robert A., to Intermec Corporation. Method and apparatus for temperature control in thermal printers. 4,675,695, 6-23-87, Cl. 346-1.100.

Samuels, Alvin: *See—*
Fox, Irwin; and Samuels, Alvin, 4,634,539, Cl. 252-8.510.

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Samuels, George J., to Allied Corporation. Nickel/indium alloy for use in the manufacture of a hermetically sealed container for semiconductor and other electronic devices. 4,709,122, 11-24-87, Cl. 174-52.0FP

Samuels, Gerard; and Smith, Paul R., to RCA Corporation. Selective intaglio inking device with removable cartridge. 4,709,632, 12-1-87, Cl. 101-163.000.

Samuels, Gerard: *See—*
Jebens, Robert W.; and Samuels, Gerard, 4,688,328, Cl. 29-839.000.

Samuels, Howard. Isolation amplifier with T-type modulator. 4,703,283, 10-27-87, Cl. 330-9.000.

Samuels, Michael R.: *See—*
Dickerson, Wilton H., Jr.; Hsu, Che-Hsiung; and Samuels, Michael R., 4,668,454, Cl. 264-129.000.

Samuels, Micheal. Wheeled vehicle. 4,691,930, 9-8-87, Cl. 280-7.100.

Samuels, Peter B. Hemostatic clip cartridge. 4,696,396, 9-29-87, Cl. 206-339.000.

Samuelsen, Peter B., to Coloplast A/S. Pressure-relieving bandage. 4,699,134, 10-13-87, Cl. 128-156.000.

Samuelsen, Sigvart J.: *See—*
Buller, Marvin L.; Lumbra, Douglas L.; Phelps, Douglas W.; Samuelsen, Sigvart J.; and Ward, William C., 4,714,953, Cl. 357-81.000.

Samuelson, Bruce E., to Minnesota Mining and Manufacturing Company. Dispenser for a stack of sheets. 4,667,828, 5-26-87, Cl. 206-555.000.

Samuelson, David, to dSam Ltd. Cinematograph camera flicker control and/or indicating device. 4,669,840, 6-2-87, Cl. 352-170.000.

Samuelson, Gay M.; and St. Clair, David J., to Shell Oil Company. Encapsulated solar cell assemblage and method of making. 4,692,557, 9-8-87, Cl. 136-251.000.

Samuelson, John P.; and Quast, Douglas A., to University of Minnesota, Regents of the. Walker for a small child. 4,700,730, 10-20-87, Cl. 135-67.000.

Samuelson, Sven-Erik, to Asea Aktiebolag. Method and apparatus for the production of castings. 4,676,295, 6-30-87, Cl. 164-119.000.

Samuelsson, Bjorn. Surface-forming panel. 4,679,370, 7-14-87, Cl. 52-407.000.

Samuelsson, Soren. Self-erecting tripod apparatus. 4,705,251, 11-10-87, Cl. 248-171.000.

Samulak, Douglas J., to Cummins Engine Company, Inc. Auxiliary heater controller. 4,700,888, 10-20-87, Cl. 237-2.00A.

San-Apro Kabushiki Kaisha: *See—*
Nakatani, Keiichi; Ohnishi, Shohzo; and Kurosaki, Tadamasa, 4,683,249, Cl. 521-129.000.

San Diego Gas & Electric: *See—*
Kozak, Michael A., III, 4,672,998, Cl. 137-614.040.

San Diego Levco Corporation: *See—*
Johnson, Curtis F.; and Gilbert, Douglas J., 4,687,265, Cl. 439-68.000.

San-Ei Kagaku Co.: *See—*
Kamiishi, Yukio; Ushioda, Hideo; and Akiyama, Takashi, 4,675,181, Cl. 424-72.000.

San Francisco Bay Area Rapid Transit District: *See—*
Todd, Peter L., 4,635,846, Cl. 238-264.000.

San Jamar, Inc.: *See—*
Omdoll, Paul A.; and Collins, Scott J., 4,706,844, Cl. 221-59.000.

Sana, Toshikazu: *See—*
Taniguchi, Akira; Ojio, Kuniji; Yamamoto, Tatsuya; and Sana, Toshikazu, 4,708,761, Cl. 156-516.000.

Sanada, Kazuo: *See—*
Fukushima, Eiji; Tanaka, Minoru; Sanada, Kazuo; and Chigira, Sadao, 4,707,075, Cl. 350-96.260.
Kobayashi, Toshiaki; Sanada, Kazuo; Murayama, Toshiaki; Sugawara, Yasuyuki; Uesugi, Naoshi; and Ishihara, Koushi, 4,679,899, Cl. 350-96.300.

Sanada, Yasuyoshi: *See—*
Hirata, Yasushi; Kondo, Hitoshi; Kono, Masanao; and Sanada, Yasuyoshi, 4,665,119, Cl. 524-399.000.

Sanada, Yoshio: *See—*
Hammura, Hisao; Echizen, Tetsuro; and Sanada, Yoshio, 4,707,691, Cl. 340-754.000.

Sanada, Yuji: *See—*
Nakanishi, Yutaka; Yamada, Toshihiko; Sanada, Yuji; and Kawai, Takashi, 4,714,426, Cl. 431-132.000.

Sanada, Yukitomo: *See—*
Sato, Hiroki; Sanada, Yukitomo; Yokoya, Yuji; Masaki, Kazuo; Nakagawa, Kiyohara; and Murata, Syuuji, 4,681,147, Cl. 137-625.370.

Sanagi, Shiroh: *See—*
Kawano, Tsuyoshi; Sanagi, Shiroh; and Nakajima, Koe, 4,678,522, Cl. 148-12.00C.

Sanai Co., Ltd.: *See—*
Yoshida, Masahiko, 4,662,907, Cl. 55-186.000.

Sanborn, Steven L.; and Neumeyer, Martin J., to AM General Corporation. Turret system for lightweight military vehicle. 4,686,888, 8-18-87, Cl. 89-37.130.

Sanburg, Larry E. Boat supported duck blind. 4,671,203, 6-9-87, Cl. 114-361.000.

Sanchem, Inc.: *See—*
Bibber, John W., 4,711,667, Cl. 106-14.210.

Sanchez-Caldera, Luis E.; Suh, Nam P.; Chun, Jung-Hoon; Lee, Arthur K.; and Blackall, Frederick S., IV, to Mixalloy Corporation. Mixing and casting apparatus. 4,706,730, 11-17-87, Cl. 164-135.000.

Sanchez, David J. Interactive message garment. 4,710,981, 12-8-87, Cl. 2-115.000.

Sanchez, Don Casimiro L., to Industrias Mediterraneo, S.A. Manufacture process for aluminum alloy die-cast cylinders. 4,653,161, 3-31-87, Cl. 29-156.40R.

Sanchez Fernandez, Emilio. Method of coating a surface with a reflecting effect. 4,663,182, 5-5-87, Cl. 427-37.000.

Sanchez, George, to Berger, Kenneth E. Inflation pressure regulator. 4,660,590, 4-28-87, Cl. 137-226.000.

Sanchez, Jose, to Pennwalt Corporation. Hydroxy-t-alkyl peroxyester. 4,634,753, 1-6-87, Cl. 526-216.000.

Sanchez, Joseph J., Jr., to Allied Corporation. In-line fuseholder. 4,648,674, 3-10-87, Cl. 339-97.00P.

Sanchez, Joseph P.: *See—*
Mich, Thomas F.; Sanchez, Joseph P.; Domagala, John M.; and Trehan, Ashok K., 4,663,457, Cl. 546-123.000.
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Sanchez, Lawrence, to Nuclear Medical Products, Inc. Multi-dose radio-isotope container. 4,673,813, 6-16-87, Cl. 250-506.100.

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Sanchez, Michael A. Cable connector cover with integral strain relief. 4,653,832, 3-31-87, Cl. 339-103.00R.

Sanchez, Paul A.: *See—*
King, C. Judson; and Sanchez, Paul A., 4,670,155, Cl. 210-689.000.

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ctor: *See*—
, Marie-Andree; Lafaille, Jean-Pierre; Pourrat, Jacques; and ez, Victor, 4,655,898, Cl. 204-299.00R.
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as S.: *See*—
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Sander, Craig S.; and Swaminathan, Balaji, to Advanced Micro Devices, Inc. Method of forming contact plugs for planarized integrated circuits. 4,714,686, 12-22-87, Cl. 437-195.000.

Sander, Craig S.: *See*—
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Sander, Eugene H.; and Cook, Douglas R., to Zumbro Enterprises, Inc. Hydroxypropylmethylcellulose. 4,696,762, 9-29-87, Cl. 252-311.000.

Sander, Floyd G.; and Spector, George. Safe coin box. 4,699,313, 10-13-87, Cl. 232-4.00R.

Sander, Gerhard K.: *See*—
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Sander, Hans: *See*—
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Sander, Pamela A.: *See*—
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Sander, Wilfried; Mielke, Siegfried; and Eschenweck, Dieter, to Kolbenschmidt Aktiengesellschaft. Cast light metal component for internal combustion engines. 4,658,706, 4-21-87, Cl. 92-213.000.

Sander, Wilfried; Essig, Gunder; and Wacker, Erich, to Metallgesellschaft Aktiengesellschaft. Light alloy piston. 4,691,622, 9-8-87, Cl. 92-233.000.

Sander, Wilfried; and Mielke, Siegfried, to Kolbenschmidt Aktiengesellschaft. Piston for internal combustion engines. 4,711,208, 12-8-87, Cl. 123-271.000.

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Sanderford, Hugh B., Jr., to DDRS, Inc. Electronic lock with secure backdoor access. 4,684,945, 8-4-87, Cl. 340-825.560.

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Sanders, Anthony J., to Black & Decker Inc. Bearing assemblies for motors. 4,715,732, 12-29-87, Cl. 384-320.000.

Sanders Associates, Inc.: *See*—
Apostolos, John T., 4,641,143, Cl. 342-445.000.
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Apostolos, John T., 4,649,392, Cl. 342-192.000.
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Burrows, James L., 4,694,411, Cl. 364-578.000.

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Kuppenheimer, John D., Jr.; and Smith, Kirby A., 4,710,630, Cl. 250-353.000.
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Maloon, Richard A.; and Woodsum, Harvey C., 4,635,278, Cl. 375-45.000.
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Sanders, Bernard, to Raynham Investments Limited. Hairdresser's aid. 4,637,411, 1-20-87, Cl. 132-9.000.

Sanders, Bernard, to Beiersdorf A.G. Opening facilitating closure tape and container. 4,709,399, 11-24-87, Cl. 383-66.000.

Sanders, Bruce. Methods for temporomandibular joint small incision surgery. 4,651,736, 3-24-87, Cl. 128-305.000.

Sanders, Calvin E. Organizer clip device and key holder. 4,658,479, 4-21-87, Cl. 24-67.900.

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Hoffman, Louis S.; Bohmer, William; DeVito, Ralph J.; Langille, Brian R.; Watkins, Richard D.; Sanders, Charles B.; Kerch, Martha E.; and Shanko, Marc, 4,666,099, Cl. 242-55.530.

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Sanders, Ernest D.; Sanders, Lawrence D.; and Sanders, Nigel D., to Development Finance Corporation of New Zealand. Method and apparatus for modification of climatic conditions. 4,643,355, 2-17-87, Cl. 239-2.100.

Sanders, Frederick W.: *See*—
Wright, Richard F.; Adair, Paul C.; and Sanders, Frederick W., 4,687,725, Cl. 430-138.000.

Sanders, Gary G., to Scott & Fetzer Company, The. Low voltage direct current power supply. 4,685,046, 8-4-87, Cl. 363-89.000.

Sanders, George S., to Agricultural Aviation Engineering Company. Ball valve and flowing fluid pressure amplifier. 4,714,092, 12-22-87, Cl. 137-894.000.

Sanders, Glen. Refuse container cover mount and method of retrofitting refuse container. 4,650,089, 3-17-87, Cl. 220-334.000.

Sanders, Glen A., to Honeywell Inc. Passive cavity gyro bias eliminator. 4,673,293, 6-16-87, Cl. 356-350.000.

Sanders, James F., to Minnesota Mining and Manufacturing Company. Resist imageable photopolymerizable compositions. 4,710,445, 12-1-87, Cl. 430-252.000.

Sanders, Johan P. M.: *See*—
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Sanders, John H.; Hoblit, Louis D.; and Mann, Joe A., to BASF Corporation. Conductive fiber and method of making same. 4,716,055, 12-29-87, Cl. 427-304.000.

Sanders, John H.: *See*—
Pickering, Trevor P.; Paton, George A.; Gusack, James A.; Smith, Thomas E.; Sanders, John H.; Nichols, Sterling M.; Pursoo, Johnson L.; Lindsay, John W.; and Streetman, William E., 4,704,311, Cl. 427-393.100.

Sanders, Joseph W.: *See*—
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Sanders, Lawrence D.: *See*—
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Sanders, Lynda M.: *See*—
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Sanders, Michael A.: *See*—
Russell, Donald J.; and Sanders, Michael A., 4,713,558, Cl. 307-264.000.

Sanders, Michael J.: *See*—
Cerdan-Diaz, Juan M.; Sanders, Michael J.; and Wellar, Mark E., 4,640,848, Cl. 427-426.000.

Sanders, Nigel D.: *See*—
Sanders, Ernest D.; Sanders, Lawrence D.; and Sanders, Nigel D., 4,643,355, Cl. 239-2.100.

Sanders, Paul W.: *See*—
Boland, Bernard W.; and Sanders, Paul W., 4,649,630, Cl. 29-580.000.

Sanders, Robert E.; Flynn, Charles J.; and Vertreese, John L., to Hallmark Cards, Inc. Light string ornament circuitry. 4,682,079, 7-21-87, Cl. 315-186.000.

Sanders, Robert E.; Knipp, Jerry L.; and Flynn, Charles J., to Hallmark Cards, Inc. Electrical ornamentation system. 4,693,541, 9-15-87, Cl. 439-541.000.

Sanders, Robert K., to General Motors Corporation. Solenoid valve. 4,679,593, 7-14-87, Cl. 137-625.650.

Sanders, Rudolf; and Rijckaert, Josephus F., to U.S. Philips Corporation. Plastic-based automotive headlamp. 4,641,056, 2-3-87, Cl. 313-51.000.

Sanders, Rudolf; and van Seggelen, Godefridus G., to U.S. Philips Corporation. Capped electric lamp. 4,687,965, 8-18-87, Cl. 313-318.000.

Sanders, Rudolf, to U.S. Philips Corporation. Capped electric lamp comprising a metal sleeve having a corner depression to engage an associated recess in an insulator body. 4,714,858, 12-22-87, Cl. 313-318.000.

Sanders, Rudolf: *See*—
Rijckaert, Josephus F.; and Sanders, Rudolf, 4,634,920, Cl. 313-318.000.

Sanders, Sam, to JTG of Nashville, Inc. Membrane keyboard for songbook tone generator. 4,706,536, 11-17-87, Cl. 84-1.010.

Sanders, Walter J., to American Standard Inc. Pulse train presence detector. 4,685,052, 8-4-87, Cl. 364-426.000.

Sanders, Ward L.; and Robinson, David W., to American Sterilizer Company. Positioning lift for surgical table. 4,678,171, 7-7-87, Cl. 269-325.000.

Sanders, Winfred J.: *See*—
Chow, Alfred W.; Lindsey, Thomas O.; and Sanders, Winfred J., 4,668,672, Cl. 514-212.000.
Menon, Govind K.; and Sanders, Winfred J., 4,680,304, Cl. 514-340.000.

Sanderson, George R.; Clark, Ross C.; Clare, Ken; and Pettitt, David J., to Merck & Co., Inc. Low-acetyl gellan gum blends. 4,647,470, 3-3-87, Cl. 426-573.000.

Sanderson, John R.; Smith, William A.; Marquis, Edward T.; and Keating, Kenneth P., to Texaco, Inc. Purification of propylene oxide by treatment with calcium hydroxide in glycerol or sugar water. 4,691,034, 9-1-87, Cl. 549-542.000.

Sanderson, John R.; Marquis, Edward T.; Smith, William A.; and Keating, Kenneth P., to Texaco Inc. Purification of propylene oxide by treatment with a selected base and inert salt. 4,691,035, 9-1-87, Cl. 549-542.000.

Sanderson, John R.; Marquis, Edward T.; Meyer, Robert A.; and Renken, Terry L., to Texaco Inc. Catalytic purification of tertiary butyl alcohol. 4,704,482, 11-3-87, Cl. 568-922.000.

Sanderson, John R.; and Larkin, John M., to Texaco Inc. Catalytic decomposition of impurities in tertiary butyl alcohol. 4,705,903, 11-10-87, Cl. 568-922.000.

Sanderson, John R.: *See*—
Marquis, Edward T.; Sanderson, John R.; Keating, Kenneth P.; and Smith, William A., 4,650,886, Cl. 556-57.000.
Marquis, Edward T.; Sanderson, John R.; Keating, Kenneth P.; and Smith, William A., 4,654,427, Cl. 556-57.000.
Marquis, Edward T.; Sanderson, John R.; and Keating, Kenneth P., 4,703,027, Cl. 502-171.000.

Sanderson, Michael E.: *See*—
Newcombe, William R., Jr.; Prysby, Daniel G.; Sanderson, Michael E.; and Schiller, David S., 4,670,886, Cl. 375-3.000.

Sanderson, R. Malcolm B. Apparatus for forming a baffle. 4,669,290, 6-2-87, Cl. 72-71.000.

Sanderson, Robert A.; and Crosby, Gaius P., to James, Thomas A. Concealed hinge for lightweight safes. 4,704,970, 11-10-87, Cl. 109-73.000.

Sanderson, Thomas F., to Hercules Incorporated. Method of improving the color of tall oil rosin. 4,643,847, 2-17-87, Cl. 260-97.700.

Sanderson, Walter. Liquid dispensing apparatus. 4,646,944, 3-3-87, Cl. 222-108.000.

Sanderson, William R., to Interox Chemicals Limited. Peroxygen-compounds. 4,704,404, 11-3-87, Cl. 514-568.000.

Sanderson, William R.: *See*—
Sankey, John P.; and Sanderson, William R., 4,704,236, Cl. 260-402.000.

Sandford, Harold F., to Shipley Company Inc. Method for preparing polyglutarimide having a lower molecular weight and a low polydispersity. 4,636,532, 1-13-87, Cl. 522-3.000.

Sandford, Paul A.: *See*—
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Sandford, Wayne H., Jr.: *See*—
Bates, Albert M.; Sandford, Wayne H., Jr.; and Junod, Michael T., 4,660,182, Cl. 367-3.000.

Sandford, William E.: *See*—
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Sandgren, Lage M.: *See*—
Holmstrom, Ulla-Kari M.; Sandgren, Lage M.; Norell, Maria G.; and Axegård, Peter A., 4,678,654, Cl. 423-478.000.

Sandgren, Lasse, to Oplatek Oy. Apparatus for spreading jointing adhesive on a paper web which make one side of a form envelope. 4,638,757, 1-27-87, Cl. 118-411.000.

Sandhagen, Jurgen: *See*—
Hofbauer, Peter; and Sandhagen, Jurgen, 4,690,118, Cl. 123-533.000.

Sandhaus, Jeffrey. Closure having integral formed sealing means. 4,640,429, 2-3-87, Cl. 215-320.000.

Sandhaus, Jeffrey. Plastic linerless closure. 4,714,167, 12-22-87, Cl. 215-270.000.

Sandholm, Markus, to Labsystems Oy; and Eflab Oy. Method of detecting mastitis in cows. 4,659,656, 4-21-87, Cl. 435-7.000.

Sandholzer, Hartwig: *See*—
Sellmaier, Horst; and Sandholzer, Hartwig, 4,654,972, Cl. 30-385.000.

Sandhu, Jaswinder S., to Raj Technology, Inc. Non-coherent frequency source and sector scanning apparatus for ultrasonic imaging system using a liquid crystal detector cell. 4,651,567, 3-24-87, Cl. 73-603.000.

Sandhu, Jaswinder S., to Raj Technology, Inc. Ultrasonic detector cell and system. 4,652,086, 3-24-87, Cl. 350-330.000.

Sandhu, Jaswinder S., to Raj Technology, Inc. Reciprocating method and apparatus for producing uniform ultrasonic field for use in liquid crystal based acoustical imaging. 4,679,436, 7-14-87, Cl. 73-603.000.

Sandhu, Mohammad A.: *See*—
Wu, Stephen H.; and Sandhu, Mohammad A., 4,687,676, Cl. 427-3.000.

Sandifer, John W. Board game. 4,688,802, 8-25-87, Cl. 273-261.000.

Sandiford, Burton B.; and Zillmer, Roger C., to Cities Service Oil and Gas Corporation. Gel and process for preventing loss of circulation, and combination process for enhanced recovery. 4,643,255, 2-17-87, Cl. 166-295.000.

Sandiford, Burton B., to Cities Service Oil and Gas Corporation. Gel and method for reducing steam channeling. 4,665,986, 5-19-87, Cl. 166-288.000.

Sandiford, Burton B.; and Chiou, Chji-Shyoung, to Cities Service Oil and Gas Corporation. Prepartially crosslinked gel for retarding fluid flow. 4,665,987, 5-19-87, Cl. 166-288.000.

Sandiford, Burton B., and Zillmer, Roger C., to Cities Service Oil and Gas Corporation. Gel and process for preventing carbon dioxide break through. 4,673,038, 6-16-87, Cl. 166-270.000.

Sandin, Nils H. Planting system. 4,641,457, 2-10-87, Cl. 47-9.000.

Sandland, Paul Levy, Kenneth; Singleton, Russell M.; Hodgson, Michael L.; and Cutler, Gerald R., to KLA Instruments Corporation. Electronic control of an automatic wafer inspection system. 4,644,172, 2-17-87, Cl. 250-548.000.

Sandler, Stanley A.: *See*—
D'Alessio, Michael S.; Sandler, Stanley A.; Smith, Gary; and Herman, Gerald, 4,671,382, Cl. 182-128.000.

Sandler, Stanley R., to Pennwalt Corporation. Poly(fluoroacetylene) containing polymers. 4,678,842, 7-7-87, Cl. 525-359.100.

Sandman, Daniel J., Elman, Boris S.; and Velazquez, Christopher S., to GTE Laboratories Incorporated. Chemical modification of solid, fully crystalline polydiacetylenes. 4,665,133, 5-12-87, Cl. 525-326.700.

Sandman, Daniel J.; and Elman, Boris S., to GTE Laboratories Incorporated. Chemical modification of polydiacetylene crystals. 4,681,920, 7-21-87, Cl. 525-328.100.

Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., to GTE Laboratories Incorporated. Chemical modification of solid, fully crystalline polydiacetylenes. 4,699,952, 10-13-87, Cl. 525-326.700.

Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., to GTE Laboratories Incorporated. Chemical modification of solid, fully crystalline polydiacetylenes. 4,699,953, 10-13-87, Cl. 525-356.000.

Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., to GTE Laboratories Incorporated. Chemical modification of solid, fully crystalline polydiacetylenes. 4,699,954, 10-13-87, Cl. 525-374.000.

Sandman, Daniel J.: *See*—
Elman, Boris S.; Sandman, Daniel J.; Tripathy, Sukant K.; and Thakur, Mrinal K., 4,647,403, Cl. 252-512.000.
Thakur, Mrinal K.; Tripathy, Sukant K.; and Sandman, Daniel J., 4,684,434, Cl. 156-622.000.
Thakur, Mrinal K.; Tripathy, Sukant K.; and Sandman, Daniel J., 4,698,121, Cl. 156-622.000.

Sandman, Robert B., to Vollrath Company, The. Method of production of a non-skid laminated sheet. 4,654,099, 3-31-87, Cl. 156-220.000.

Sandman, Robert B., to Vollrath Company, The. Non-skid laminated sheet. 4,689,275, 8-25-87, Cl. 428-537.100.

Sando, Daniel D. Apparatus for the display and storage of mattresses. 4,678,085, 7-7-87, Cl. 211-28.000.

Sando Iron Works Co., Ltd.: *See*—
Goto, Tokuju; Tanaka, Itsuo; Sando, Yoshikazu; and Ishidoshiro Hiroshi, 4,691,137, Cl. 313-30.000.
Sando, Yoshikazu; and Ishidoshiro, Hiroshi, 4,656,843, Cl. 68-13.00R.
Sando, Yoshikazu; and Ishidoshiro, Hiroshi, 4,711,102, Cl. 68-5.00E.

Sando, Yoshikazu; and Ishidoshiro, Hiroshi, to Sando Iron Works Co., Ltd. Apparatus for the automatic concentration control of aqueous caustic soda solution. 4,656,843, 4-14-87, Cl. 68-13.00R.

Sando, Yoshikazu; and Ishidoshiro, Hiroshi, to Sando Iron Works Co., Ltd. Wet heat treating apparatus of a cloth for performing dyeing and washing in combination. 4,711,102, 12-8-87, Cl. 68-5.00E.

Sando, Yoshikazu: *See*—
Goto, Tokuju; Tanaka, Itsuo; Sando, Yoshikazu; and Ishidoshiro, Hiroshi, 4,691,137, Cl. 313-30.000.

Sandomirsky, Sergei G.: *See*—
Melgui, Mikhail A.; and Sandomirsky, Sergei G., 4,641,093, Cl. 324-239.000.

Sandor, James A.: *See*—
Gartland, Albert J., Jr.; and Sandor, James A., 4,658,088, Cl. 174-66.000.

Sandor, Jules A. Quick disconnect battery terminal. 4,691,980, 9-8-87, Cl. 439-476.000.

Sandow, Kiyoshi, to Plasteco, Inc. Grid skylight system. 4,703,596, 11-3-87, Cl. 52-200.000.

Sandoz Corp.: *See*—
Jewell, Charles F., Jr.; and Wareing, James R., 4,650,890, Cl. 556-446.000.

Sandoz, Inc.: *See*—
Sehring, Richard H., 4,670,610, Cl. 568-774.000.

Sandoz Ltd.: *See*—
Altermatt, Ruedi, 4,667,023, Cl. 534-732.000.
Avar, Lajos, 4,661,595, Cl. 546-89.000.
Avar, Lajos, 4,695,600, Cl. 524-103.000.
Avar, Lajos, 4,716,187, Cl. 524-99.000.
Baumann, Hans-Peter; and Grossmann, Marcel, 4,657,957, Cl. 524-245.000.
Benguerel, Francois; and Mislin, Roland, 4,685,934, Cl. 8-684.000.
Berner, Heinz; and Vyplel, Hermann, 4,675,330, Cl. 514-365.000.
Cavanak, Thomas, 4,654,345, Cl. 514-250.000.
Connell, David L.; and Gradwell, Anthony J., 4,671,883, Cl. 252-8.515.
Danner, Bernard, 4,675,022, Cl. 8-115.560.
Danner, Bernard; and Ruynon, James R., 4,696,962, Cl. 524-140.000.
Dorr, Jacky; and Pedrazzi, Reinhard, 4,670,546, Cl. 534-612.000.
Doswald, Paul; Moriconi, Emil; Moser, Helmut; and Schmid, Horst, 4,665,162, Cl. 534-606.000.
Goerner, Richard N.; Hipp, J. Michael; and Hipp, Ruth H., 4,692,544, Cl. 560-4.000.
Greve, Manfred, 4,634,764, Cl. 534-759.000.
Greve, Manfred; Moriconi, Emil J.; and Moser, Helmut, 4,675,388, Cl. 534-608.000.
Hagenbach, Alexander; Seiler, Max P.; and Wuthrich, Hans J., 4,634,708, Cl. 514-280.000.
Hamberger, Helmut; Stephen, Adrian; Stutz, Anton; and Stutz, Peter, 4,680,291, Cl. 514-183.000.
Hasler, Rolf; and Palacin, Francis, 4,645,510, Cl. 8-400.000.
Heller, Jurg; Kissling, Bruno; Robinson, Tibor; and Valenti, Salvatore, 4,645,511, Cl. 8-549.000.
Henrick, Clive A., 4,647,698, Cl. 564-256.000.
Henrick, Clive A., 4,661,617, Cl. 560-61.000.
Henrick, Clive A., 4,697,033, Cl. 558-233.000.
Henzi, Beat, 4,687,842, Cl. 534-607.000.
Kaspers, Helmut; Duben, Jiri; and Gisi, Ulrich, 4,701,454, Cl. 514-245.000.
Kobel, Hans; Sanglier, Jean-Jacques; Tscherter, Hans; and Bolliger, Georg, 4,681,880, Cl. 514-250.000.
Lehr, Friedrich, 4,670,547, Cl. 534-637.000.
Macher, Ingolf; and Unger, Frank M., 4,698,331, Cl. 514-25.000.
Milzner, Karlheinz; Kuhnen, Fred; and Seckinger, Karl, 4,657,579, Cl. 71-92.000.
Moser, Helmut; Greve, Manfred; Pedrazzi, Reinhard; and Wald, Roland, 4,673,735, Cl. 534-606.000.
Neumann, Peter, 4,652,565, Cl. 514-249.000.
Nickell, Louis G.; Stach, Leonard J.; and Hokama, Takeo, 4,661,148, Cl. 71-94.000.
Nickell, Louis G.; Stach, Leonard J.; and Hokama, Takeo, 4,662,934, Cl. 71-94.000.
Nickell, Louis G.; Stach, Leonard J.; and Hokama, Takeo, 4,685,960, Cl. 71-94.000.
Nozulak, Joachim; and Giger, Rudolf K. A., 4,656,167, Cl. 514-227.000.
Oestberg, Lars, 4,634,664, Cl. 435-68.000.
Pedrazzi, Reinhard, 4,686,285, Cl. 534-606.000.
Schaub, Fritz, 4,664,596, Cl. 71-92.000.
Seckinger, Karl; Kuhnen, Fred; and Milzner, Karlheinz, 4,666,502, Cl. 71-90.000.
Seebach, Dieter, 4,703,033, Cl. 514-11.000.
Seiler, Max P., 4,692,453, Cl. 514-290.000.
Siegl, Helene, 4,681,754, Cl. 424-10.000.
Stuetz, Anton, 4,684,661, Cl. 514-443.000.
Vogel, Arnold, 4,707,482, Cl. 514-253.000.
von Tobel, Hans-Rudolf; and Doswald, Paul, 4,699,626, Cl. 8-549.000.
Wald, Roland, 4,665,165, Cl. 540-124.000.
Walther, Werner, 4,659,630, Cl. 428-473.000.
Welham, Arthur C., 4,670,017, Cl. 8-598.000.
Wenger, Roland; Traber, Rene P.; Kobel, Hans; and Hofmann, Hans, 4,639,434, Cl. 514-11.000.
Wicki, Heinz, 4,649,194, Cl. 534-693.000.
Wicki, Heinz, 4,668,238, Cl. 8-437.000.

Sandoz Pharmaceticals Corp.: *See*—
Wareing, James R., 4,668,794, Cl. 548-342.000.

Sandoz Pharmaceuticals Corp.: *See*—
Anderson, Paul L., 4,686,237, Cl. 514-532.000.
Gadient, Fulvio, 4,673,674, Cl. 514-220.000.
Heller, Jorge; and Penhale, Donald W. H., 4,713,441, Cl. 528-392.000.
Houlihan, William J.; Mattner, Paul G.; and Smith, Joseph A., 4,670,600, Cl. 568-1.000.
Houlihan, William J.; and Lee, Mark L., 4,673,672, Cl. 514-95.000.
Jewell, Charles F., Jr.; and Wareing, James R., 4,677,211, Cl. 548-491.000.
Nadelson, Jeffrey, 4,681,898, Cl. 514-619.000.
Rogoff, Martin H.; and Shieh, Tsuong R., 4,716,039, Cl. 424-93.000.

Sandreid, Alf J., to Sophus Berendsen Marine A/S. Gripping device for releasably gripping a rope, wire or similar elongated flexible member. 4,669,582, 6-2-87, Cl. 188-65.100.

Sandrock, Gary D., to Ergenics, Inc. Low temperature reusable hydrogen getter. 4,668,424, 5-26-87, Cl. 252-181.300.

Sandrock, Gary D.: *See*—
Goodell, Paul D.; Huston, Ernest L.; Rudman, Peter S.; and Sandrock, Gary D., 4,687,650, Cl. 423-248.000.

Sandrock, Gerhard: *See*—
Bronstert, Klaus; Hochstein, Waldhelm; Mohr, Heinrich; Sandrock, Gerhard; Vogel, Hans-Henning; and Rath, Hans P., 4,663,406, Cl. 526-204.000.

Sands, Bruce W., to PQ Corporation. Thermoplastic materials. 4,704,424, 11-3-87, Cl. 524-450.000.

Sands, Bruce W.: *See*—
Cunnion, James P., Jr.; and Sands, Bruce W., 4,664,728, Cl. 149-2.000.

Sands, Donald F. Bed rail cushion system. 4,672,698, 6-16-87, Cl. 5-424.000.

Sands, Robert W., to General Electric Company. Incandescent lamp having an improved axial mounting structure for a filament. 4,686,411, 8-11-87, Cl. 313-271.000.

Sands, Timothy A., to C. M. Offray & Son, Inc. Grounding strap and fabric and method. 4,664,158, 5-12-87, Cl. 139-422.000.

Sandstrom, Ake, to Geodynamik H. Thurner AB. Method of compacting a material layer and a compacting machine for carrying out the method. 4,647,247, 3-3-87, Cl. 404-75.000.

Sandstrom, Borje: *See*—
Pahlsson, Sten-Erik G.; and Sandstrom, Borje, 4,650,493, Cl. 8-142.000.

Sandstrom, Erland T.: *See*—
Bjork, Nils A. N.; Sandstrom, Erland T.; Stenberg, Johan E.; and Stiblert, Lars B., 4,647,207, Cl. 356-369.000.
Bjork, Nils A. N.; Sandstrom, Erland T.; Stenberg, Johan E.; and Stiblert, Lars B., 4,655,595, Cl. 356-369.000.

Sandstrom, Roland: *See*—
Olsson, Mats; and Sandstrom, Roland, 4,650,413, Cl. 431-1.000.
Olsson, Mats A.; and Sandstrom, Roland, 4,635,571, Cl. 110-297.000.

Sandstrom, William A.; Patel, Jitendra G.; and Bush, John R., to Institute of Gas Technology. Apparatus for thermal and pneumatic treatment of granular solids. 4,636,168, 1-13-87, Cl. 432-58.000.

Sandt, Hartley; and Happy, Henry, to Price Brothers Company, a part interest. Pipe joint. 4,647,080, 3-3-87, Cl. 285-297.000.

Sandt, Hartley; and Happy, Henry, to Price Brothers Company, a part interest. Method of laying pipe sections. 4,714,377, 12-22-87, Cl. 405-154.000.

Sandt, Henry J., Jr.: *See*—
Van Iperen, Willem H. P.; Sandt, Henry J., Jr.; and Aronson, Eric G., 4,695,211, Cl. 410-77.000.

Sanduja, Mohan L.: *See*—
Horowitz, Carl; Ryan, John M.; Sanduja, Mohan L.; Sugathan, Kenneth K.; and Thottathil, Paulose P., 4,683,007, Cl. 106-308.00M.

Sandusky, Heidi A.: *See*—
McMahon, Paul J.; and Sandusky, Heidi A., 4,708,240, Cl. 206-45.180.

Sandvig, Robert L.; Klemm, William A.; Gaines, Jack R.; and Looyenga, Robert W., to State of South Dakota as represented by the Department of Transportation. Deicing chemicals and their preparation from polysaccharide sources. 4,664,832, 5-12-87, Cl. 252-70.000.

Sandvig, Timothy C.: *See*—
Ersfeld, Dean A.; Sandvig, Timothy C.; and Gobran, Diane S., 4,683,877, Cl. 128-90.000.
Scholz, Matthew T.; Bartizal, Dennis C.; Reed, Katherine E.; Larson, Wayne K.; Ersfeld, Dean A.; Sandvig, Timothy C.; and Buckanin, Richard S., 4,667,661, Cl. 128-90.000.

Sandvik, Johannes, to Elkem a/s. Means for suspending a skid pan from a winch mounted on a tractor. 4,645,082, 2-24-87, Cl. 212-141.000.

Sandvik Kosta GmbH: *See*—
Schmid, Herbert; and Hiestand, Karl, 4,677,885, Cl. 82-40.00R.

Sandvik, Orjan: *See*—
Kurki, Jouko; Sandvik, Orjan; and Nyrkio-Maklin, Tiina, 4,671,097, Cl. 73-3.000.

Sandvik Triangle, Inc.: *See*—
Benson, Lloyd R., 4,669,924, Cl. 407-113.000.

Sandvos, Jerry L.; and Freeburg, Thomas A., to Motorola, Inc. Method and apparatus for coordinating independent communications systems. 4,670,905, 6-2-87, Cl. 455-33.000.

Sandvos, Jerry L.: *See*—
Zabarsky, Alan P.; Steiger, Suzette D.; Staiano, Edward F.; and Sandvos, Jerry L., 4,644,351, Cl. 340-825.440.

Sandwick, Thomas K. Collet chuck with internal and external work stops. 4,702,484, 10-27-87, Cl. 279-1.00S.

Sandy Hill Corporation: *See*—
Cook, William G., 4,675,077, Cl. 162-344.000.

Sandy, Joe M.; and Smith, Gerald D., to Halliburton Company. Method for treating subterranean formations with temporarily thickening solutions. 4,649,999, 3-17-87, Cl. 166-295.000.

Sane, Ajit Y., to Eltech Systems Corporation. Preparation and sintering of refractory metal borides, carbides and nitrides of high purity. 4,693,989, 9-15-87, Cl. 501 96.000.

Sanechika, Kenichi: *See*—
Yoshino, Akira; and Sanechika, Kenichi, 4,634,636, Cl. 428-500.000.
Yoshino, Akira; Sanechika, Kenichi; and Nakajima, Takayuki, 4,668,595, Cl. 429-194.000.
Yoshino, Akira; and Sanechika, Kenichi, 4,686,160, Cl. 429-50.000.

Saneharu, Tatsu: *See*—
Gen, Endo; Saneharu, Tatsu; Hori, Hirokazu; and Kawata, Yoshihiro, 4,671,913, Cl. 264-171.000.

Sanei Giken Co., Ltd.: *See*—
Miyake, Eiichi, 4,659,419, Cl. 156-522.000.

Sanelli, Danilo. Knife having a handle coated with an elastomer, particularly for professional uses. 4,712,304, 12-15-87, Cl. 30-343.000.

Saner, Kaspar, to K-Tron Patent AG. Mass-measuring and force-measuring device. 4,655,306, 4-7-87, Cl. 177-229.000.

Saner, Kaspar, to K-Tron Patent AG. Mass-measuring and force-measuring device. 4,703,816, 11-3-87, Cl. 177-229.000.

Sanetta Textilwerk Gebruder Ammann: *See*—
Muller, Kurt, 4,645,101, Cl. 223-66.000.

Sanfilippo, Giovanni: *See*—
Vitellaro, Antonio; and Sanfilippo, Giovanni, 4,668,242, Cl. 23-313.00R.

Sanfilippo, John E. Apparatus and method for sealing containers in controlled environments. 4,658,566, 4-21-87, Cl. 53-432.000.

Sanford, George G.: *See*—
Donovan, William J.; and Sanford, George G., 4,686,627, Cl. 364-481.000.

Sanford, Karl J.: *See*—
Frickey, Paul H.; Sanford, Karl J.; Dappen, Glen M.; Thunberg, Allen L.; Sundberg, Michael W.; and Danielson, Susan J., 4,670,381, Cl. 435-007.000.

Sanford, Lawrence; Stokley, Charles O.; and Turner, Edwin C., to Tam International, Inc. Packer assembly. 4,648,448, 3-10-87, Cl. 166-191.000.

Sanford, Norman A.: *See*—
Mahapatra, Amaresh; McMahon, Donald H.; Robinson, William C.; and Sanford, Norman A., 4,695,121, Cl. 350-96.120.

Sanford, Platter; Gadsby, Larry R.; and Heath, Robert T., to Electronic Processors, Inc. Automatic tape threading system for use in a tape transport system. 4,646,177, 2-24-87, Cl. 360-95.000.

Sanford, Robert A.: *See*—
Strubel, David G.; and Sanford, Robert A., 4,681,126, Cl. 131-370.000.

Sangamo Weston, Inc.: *See*—
Goodwin, R. Wendell, 4,665,359, Cl. 324-110.000.
Horwitz, Lawrence B., 4,644,523, Cl. 370-18.000.
Jerrim, John W.; and Horwitz, Lawrence B., 4,653,076, Cl. 375-115.000.
Larsen, James W.; and Campbell, Daniel P., 4,698,522, Cl. 307-309.000.
Purcell, John A.; Puglis, John T.; and Duckett, Steven W., 4,639,638, Cl. 313-534.000.
Randall, Bruce E., 4,695,742, Cl. 307-271.000.
Rilling, John F., 4,670,737, Cl. 340-347.00P.
Simonetti, John J., 4,713,198, Cl. 252-301.170.
Stephenson, Kenneth E., 4,710,675, Cl. 313-532.000.
Stevens, Ray; and Perry, Duane, 4,686,460, Cl. 324-142.000.
Swanson, Scott C., 4,639,728, Cl. 340-870.030.
Swanson, Scott C., 4,682,169, Cl. 379-104.000.
Swanson, Scott C., 4,697,180, Cl. 340-870.020.
Swanson, Scott C., 4,697,181, Cl. 340-870.020.
Swanson, Scott C., 4,697,182, Cl. 340-870.020.

Sanger, David G.: *See*—
Kind, Stuart S.; Sanger, David G.; Twibell, John D.; and Hargraves, John, 4,640,035, Cl. 40-625.000.

Sanger, Leon A. Reverse cutting expansion tap. 4,661,028, 4-28-87, Cl. 408-165.000.

Sanghvi, Narendra T.; Fry, Francis J.; Morris, Richard F.; and Staber, Richard A., to Indianapolis Center for Advanced Research. Intraoperative scanner. 4,664,121, 5-12-87, Cl. 128-660.000.

Sanglier, Jean-Francois, to U.S. Philips Corporation. Connecting and communication system and means for a telephone station with peripheral apparatus. 4,685,121, 8-4-87, Cl. 379-90.000.

Sanglier, Jean-Jacques: *See*—
Kobel, Hans; Sanglier, Jean-Jacques; Tscherter, Hans; and Bolliger, Georg, 4,681,880, Cl. 514-250.000.

Sangster, Andrew: *See*—
Roberts, Allen M.; Sangster, Andrew; and Stroll, Zoltan, 4,706,077, Cl. 340-728.000.

Sangster, Arlon G.: *See*—
Fair, David L.; Dean, Robert A.; and Sangster, Arlon G., 4,714,534, Cl. 204-269.000.

Sangster, Frederik L. J.: *See*—
Kaizer, Adrianus J. M.; Sangster, Frederik L. J.; and Wesche, Cornelis A. M., 4,649,565, Cl. 381-90.000.

Sangu, Isao, to NEC Corporation. Helical scan tracking apparatus including means for correcting for track curvature. 4,688,108, 8-18-87, Cl. 360-10.200.

San Ho, Fock: *See*—
Chiu, Anthony M.; Allison, Mark D.; Jones, James W.; Trammell, Lyndale A.; and San Ho, Fock, 4,639,664, Cl. 324-73.0AT.

Sani-Fresh International, Inc.: *See*—
Bokmiller, David J., 4,638,910, Cl. 206-15.200.
Bokmiller, David J.; and Heck, Samuel C., 4,640,638, Cl. 401-145.000.
Bokmiller, David J., 4,642,836, Cl. 15-118.000.
Bokmiller, David J.; and Heck, Samuel C., 4,705,420, Cl. 401-145.000.
Heck, Samuel C., 4,678,105, Cl. 222-153.000.
Heck, Samuel C., 4,705,195, Cl. 222-207.000.

Sani, Mehdi H.; and Tipon, Donald G., to NCR Corporation. CMOS to ECL interface circuit. 4,656,372, 4-7-87, Cl. 307-475.000.

Sanislo, Stephen V., Jr.: *See*—
Blanchard, Kenneth E.; and Sanislo, Stephen V., Jr., 4,716,582, Cl. 379-28.000.

Sanitation Equipment Limited: *See*—
Stewart, John M., 4,710,988, Cl. 4-438.000.

Sanitech, Inc.: *See*—
Nelson, Sidney G., Jr., 4,711,718, Cl. 210-282.000.

Sanity Marine Products: *See*—
Arrow, Martin, 4,682,438, Cl. 43-21.200.

Sanjana, Zal N.: *See*—
Marchetti, Joseph R.; and Sanjana, Zal N., 4,675,350, Cl. 523-414.000.

Sanji, Koichiro: *See*—
Sugimori, Masaru; and Sanji, Koichiro, 4,694,093, Cl. 556-413.000.

Sanjo Machine Works Ltd.: *See*—
Hirama, Shigemitsu; Aida, Satoru; and Soyama, Hideo, 4,680,919, Cl. 53-499.000.
Muto, Yoshiyuki; Etani, Tadao; Aida, Satoru; and Kato, Shinya, 4,695,007, Cl. 242-58.400.
Ono, Shuichi; Aida, Satoru; and Hoshino, Kinshiro, 4,672,796, Cl. 53-449.000.

Sanjoh, Akira: *See*—
Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, 4,678,731, Cl. 430-65.000.
Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, 4,713,308, Cl. 430-65.000.

Sanjurjo, Angel; and Sancier, Kenneth M. Fluxing system for reactors for production of silicon. 4,642,228, 2-10-87, Cl. 423-350.000.

Sanjurjo, Angel; and Sancier, Kenneth M. Process for the reduction of fluorides of silicon, titanium, zirconium or uranium. 4,655,827, 4-7-87, Cl. 75-84.400.

Sanjurjo, Angel; and Sancier, Kenneth M., to Enichem, S.p.A. Melt consolidation of silicon powder. 4,676,968, 6-30-87, Cl. 423-350.000.

Sank, Gerald W., to Vulcan-Hart Corporation. Catalytic combustion deep fat fryer. 4,690,127, 9-1-87, Cl. 126-391.000.

Sankar, Pat V., to University of California, The Regents of the. AM/FM hybrid ultrasonic imaging. 4,691,707, 9-8-87, Cl. 128-660.000.

Sanken Giken Kogyo Kabushiki Kaisha: *See*—
Fukuda, Masuo, 4,637,491, Cl. 181-265.000.
Matsumoto, Tooru; Ishikawa, Satoshi; Nakamura, Eiji; Izuoka, Tomio; and Okada, Tomoyuki, 4,657,963, Cl. 524-406.000.

Sanken Airpax Co., Ltd.: *See*—
Kushida, Takeo; and Taniai, Youichi, 4,677,327, Cl. 310-43.000.

Sankey, Brian; and Sankey, Douglas, to Senmar Corporation. Dispenser for wine. 4,706,847, 11-17-87, Cl. 222-1.000.

Sankey, Douglas: *See*—
Sankey, Brian; and Sankey, Douglas, 4,706,847, Cl. 222-1.000.

Sankey, Edward L.: *See*—
Schoenwetter, Randall R.; Makal, John; and Sankey, Edward L., 4,715,104, Cl. 29-271.000.

Sankey, Edwin W., to Dresser Industries, Inc. Method and apparatus for adding additional D.C. motors and control thereof. 4,684,854, 8-4-87, Cl. 318-140.000.

Sankey, Ivor G., to Hardy Spicer Limited. Hub assembly. 4,702,526, 10-27-87, Cl. 301-6.0WB.

Sankey, James K.: *See*—
Hehn, Bruce A.; and Sankey, James K., 4,709,437, Cl. 15-97.00R.

Sankey, John P.; and Sanderson, William R., to Interox Chemicals Ltd. Preparation of sulphophenyl esters. 4,704,236, 11-3-87, Cl. 260-402.000.

Sankey, John P.: *See*—
Comyns, Alan E.; Morris, Gareth W.; and Sankey, John P., 4,687,871, Cl. 556-138.000.

Sankey Vending Limited: *See*—
Daintrey, Joseph W.; and Thomson, Peter, 4,694,739, Cl. 99-289.00R.

Sankhagowit, Thanomsak, to National Semiconductor Corporation. Pre-testable semiconductor die package. 4,701,781, 10-20-87, Cl. 357-70.000.

Sanki Kogyo Kabushiki Kaisha: *See*—
Tanaka, Hirokuni, 4,649,830, Cl. 104-138.100.
Tanaka, Hirokuni, 4,660,464, Cl. 98-115.300.

Sanki Vinyl Kabushiki Kaisha: *See*—
Nomura, Tetsuro, 4,706,396, Cl. 40-124.200.

Sankin Kogyo Kabushiki Kaisha: *See*—
Buma, Mitsuo; Yuda, Sadayuki; Sato, Masatsune; and Okada, Mitsuo, 4,689,079, Cl. 106-35.000.

Sanko Giken Kogyo Co., Ltd.: *See*—
Shiraishi, Takashi; and Kitamura, Shirou, 4,657,395, Cl. 356-385.000.

Sanko Kinzoku Co., Ltd.: *See*—
Miyoshi, Makoto, 4,655,072, Cl. 72-422.000.

Sanko Kogyo Kabushiki Kaisha: *See*—
Miyashita, Naoya, 4,685,707, Cl. 285-328.000.

Sankou Senzai Kougyou Kabushiki Kaisha: *See*—
Tanaka, Yoshihiro; and Kodama, Ryozo, 4,674,362, Cl. 74-833.000.

Sankousha Co., Ltd.: *See*—
Uchikoshi, Mituyuki, 4,634,030, Cl. 223-57.000.

Sankyo Company Limited: *See*—
Kaneko, Masakatsu; Kimura, Misako; Murofushi, Yoshinobu; Yamazaki, Mitsuo; Iwata, Nobuyoshi; and Nakagawa, Fumio, 4,634,706, Cl. 514-262.000.

Konotsune, Takuo; and Kawakubo, Katsuhiko, 4,687,858, Cl. 548-243.000.

Kurihara, Kozo; Otsuka, Yuji; and Fukazawa, Toshio, 4,661,162, Cl. 106-169.000.

Matsueda, Rei; Yabe, Yuichiro; Yamazaki, Mitsuo; Kosubu, Tatsuo; and Hiwada, Kunio, 4,698,329, Cl. 514-18.000.

Miyadera, Tetsuo; Sugimura, Yukio; Tanaka, Teruo; Hashimoto, Toshihiko; Iino, Kimio; and Sugawara, Shinichi, 4,639,441, Cl. 514-195.000.

Murakami, Tadashi; and Tomita, Kazuo, 4,634,774, Cl. 548-243.000.

Nakao, Hideo; Fujimoto, Koichi; Ishihara, Sadao; Sugawara, Shinichi; and Igarashi, Isamu, 4,716,158, Cl. 514-202.000.

Takeshiba, Hideo; Kinoto, Takao; and Jojima, Teruomi, 4,661,486, Cl. 514-252.000.

Tamaoki, Hidetsune, 4,709,014, Cl. 530-333.000.

Terada, Atsusuke; and Wachi, Kazuyuki, 4,673,761, Cl. 562-459.000.

Terahara, Akira; and Tanaka, Minoru, 4,695,587, Cl. 514-510.000.

Tomita, Kuniyuki; Shimoji, Yasuo; Kumakura, Seiji; Koike, Hiroyuki; Iwata, Nobuyoshi; and Morisawa, Yasuhiro, 4,716,162, Cl. 514-234.000.

Yanagisawa, Hiroaki; Ishihara, Sadao; Ando, Akiko; Kanazaki, Takuro; Koike, Hiroyuki; and Tsujita, Yoshio, 4,699,905, Cl. 514-211.000.

Yoshioka, Takao; Kitazawa, Eiichi; Yamazaki, Mitsuo; and Iizuka, Yoshio, 4,691,027, Cl. 549-32.000.

Sankyo Dengyo Co., Ltd.: *See*—
Onuma, Eiichi; Kawamura, Youji; Obana, Hiroshi; Aizawa, Takemi; Tamai, Motomi; Inagaki, Tsuguya; and Tokita, Minoru, 4,691,869, Cl. 241-34.000.

Sankyo Manufacturing Company, Ltd.: *See*—
Kato, Heizaburo, 4,634,034, Cl. 226-142.000.
Kato, Heizaburo, 4,638,731, Cl. 100-282.000.
Kato, Heizaburo, 4,638,990, Cl. 271-272.000.
Kato, Heizaburo, 4,638,991, Cl. 271-272.000.
Kato, Heizaburou; and Anma, Masao, 4,648,288, Cl. 74-798.000.
Kato, Heizaburou; and Maruyama, Yukihisa, 4,667,531, Cl. 74-567.000.

Sannel, Benjamin H., to Pako Corporation. Apparatus and method for transporting photosensitive sheets in a photoprocessor. 4,673,251, 6-16-87, Cl. 354-322.000.

Sanner, Axel: *See*—
Sterzel, Hans-Josef; and Sanner, Axel, 4,711,907, Cl. 521-27.000.

Sannes, Tjerk: *See*—
Bailleul, Gilles; and Sannes, Tjerk, 4,679,317, Cl. 29-828.000.

Sanno, Hiroaki, to Murao Boki Kabushiki Kaisha. Apparatus for taking up bobbins placed on the conveyor. 4,667,807, 5-26-87, Cl. 198-412.000.

Sannohashi Seisakusho Company, Limited: *See*—
Imai, Yoshio, 4,637,764, Cl. 411-5.000.

Sannohe, Kunio; Otsuka, Kengo; Ito, Toshohiko; Maruyama, Masahiko; Kitano, Takafumi; and Hirayama, Makoto, to Mitsui Toatsu Chemicals, Inc. Isoquinoline derivatives. 4,639,521, 1-27-87, Cl. 546-141.000.

Sannomiya, Hitoshi; and Hijikigawa, Masaya, to Sharp Kabushiki Kaisha. Amorphous semiconductor device. 4,698,658, 10-6-87, Cl. 357-30.000.

Sano, Akira: *See*—
Mori, Masaaki; Sano, Akira; Horiuchi, Yushi; and Okumura, Yoshihiro, 4,640,023, Cl. 34-57.00A.

Sano, Fumiaki: *See*—
Asami, Kazutomo; Sano, Fumiaki; Ishijima, Koji; Wada, Fumio; and Hirahara, Takuho, 4,645,429, Cl. 417-312.000.
Asami, Kazutomo; Sano, Fumiaki; Wada, Fumio; and Ishijima, Koji, 4,711,617, Cl. 417-295.000.

Sano, Fumikazu; and Mezaki, Masakazu, to Furukawa Electric Co. Ltd., The. Excellent windability magnet wire. 4,716,079, 12-29-87, Cl. 428-383.000.

Sano, Hideo: *See*—
Inumaru, Susumu; Yamauchi, Shigenori; Shibue, Kazuhisa; Sano, Hideo; and Ito, Kiyofumi, 4,676,830, Cl. 75-249.000.

Sano, Hironari, to Mitsubishi Petrochemical Company Limited. Inorganic filler-containing polyolefin resin compositions. 4,699,935, 10-13-87, Cl. 523-206.000.

Sano, Hiroshi: *See*—
Haruta, Masatake; Sano, Hiroshi; and Kobayashi, Tetsuhiko, 4,698,324, Cl. 502-243.000.

Sano, Jyunji: *See*—
Nishida, Takeshi; Sano, Jyunji; and Nonaka, Toyokazu, 4,646,366, Cl. 2-108.000.

Sano, Kazuo: *See*—
Makabe, Eiichi; Uesugi, Mitsuaki; Inomata, Masaichi; Maruyama, Kyusuke; Iwai, Kenji; and Sano, Kazuo, 4,716,459, Cl. 358-106.000.

Sano, Kenji: *See*—
Fukamizu, Hiroshi; Nakano, Masaji; Iba, Kunio; Yamasaki, Taro; and Sano, Kenji, 4,690,553, Cl. 356-51.000.
Kitatani, Katsuji; and Sano, Kenji, 4,663,260, Cl. 430-83.000.
Ueda, Hikoji; Otsu, Akira; Sano, Kenji; and Takano, Katuyuki, 4,652,511, Cl. 430-137.000.
Yokoya, Hiroaki; Sano, Kenji; and Sato, Hideo, 4,708,922, Cl. 430-73.000.

Sano, Kiyoshi, to Matsushita Electric Industrial Co., Ltd. Quiet running compressor. 4,714,416, 12-22-87, Cl. 418-63.000.

Sano, Koichi; Yokoyama, Tetsuo; Yamagata, Shimbu; and Haruna, Koichi, to Hitachi, Ltd. Nuclear magnetic resonance imaging apparatus. 4,644,278, 2-17-87, Cl. 324-309.000.
Sano, Koichi: *See*—
Morishita, Koichi; Omori, Shinji; Yamagata, Shinabu; Yokoyama, Tetsuo; Sano, Koichi; and Ogushi, Akira. 4,644,582, Cl. 382-6.000.
Sano, Masafumi: *See*—
Osada, Yoshiyuki; Tsuda, Hisanori; Sano, Masafumi; Omata, Satoshi; Takasu, Katsuji; and Hirai, Yutaka. 4,645,684, Cl. 427-38.000.
Sano, Masaki; and Osafune, Koji, to Kabushiki Kaisha Toshiba. Read/-write amplifier power control device for a disk apparatus. 4,709,279, 11-24-87, Cl. 360-78.000.
Sano, Morio: *See*—
Masui, Takeshi; and Sano, Morio. 4,637,945, Cl. 428-35.000.
Sano, Nichiro, to Asahi Yukizai Kogyo Co., Ltd. Plastic gate vaive. 4,676,268, 6-30-87, Cl. 137-375.000.
Sano, Norio: *See*—
Furukawa, Toshiharu; Shimura, Susumu; Takai, Fumio; Sano, Norio; and Ishida, Tomonobu. 4,697,532, Cl. 110-346.000.
Sano, Reiji: *See*—
Morita, Yasuyuki; Takahashi, Hidemi; and Sano, Reiji. 4,672,621, Cl. 372-58.000.
Sano Sharyo Seisakusho Co., Ltd.: *See*—
Maeda, Kazuya; and Ishihara, Yasusuke. 4,639,004, Cl. 280-5.320.
Sano, Shigeaki: *See*—
Moriwaki, Masafumi; Sano, Shigeaki; and Tanaka, Eiichi. 4,636,582, Cl. 178-18.000.
Sano, Shigeo; and Komatsuzaki, Masato, to C. I. Kaseo Co., Ltd. Magnetically attachable sign. 4,663,874, 5-12-87, Cl. 40-621.000.
Sano, Shimchi: *See*—
Ebara, Ryohei; and Sano, Shimichi. 4,681,784, Cl. 428-40.000.
Takeuchi, Yasuhito; Hirota, Yuichi; Sano, Shinichi; and Ishiguro, Shinichi. 4,694,680, Cl. 73-1.0DV.
Sano, Shoichi; and Furukawa, Yoshimi, to Honda Giken Kogyo Kabushiki Kaisha. Method of controlling the steering of rear wheels of a motor vehicle with steerable front and rear wheels. 4,669,744, 6-2-87, Cl. 280-91.000.
Sano, Shoichi: *See*—
Furukawa, Yoshimi; and Sano, Shoichi. 4,647,057, Cl. 280-91.000.
Furukawa, Yoshimi; and Sano, Shoichi. 4,647,058, Cl. 280-91.000.
Tashiro, Yutaka; and Sano, Shoichi. 4,709,936, Cl. 280-91.000.
Yamamoto, Osamu; Sano, Shoichi; and Furukawa, Yoshimi. 4,660,844, Cl. 280-91.000.
Sano, Shojiro; and Saeki, Keiso, to Fuji Photo Film Co., Ltd. Pressure-sensitive recording sheets. 4,689,644, 8-25-87, Cl. 503-209.000.
Sano, Shunichi: *See*—
Wada, Hirotsugu; Sano, Shunichi; Nakasuji, Mamoru; and Yoshikawa, Ryoichi. 4,647,782, Cl. 250-492.200.
Sano, Takao; Sekido, Toshihide; and Ogasawara, Masafumi, to Toray Industries, Inc. Yarn-threading method and device. 4,666,590, 5-19-87, Cl. 209-2.000.
Sano, Takashi, to Pigeon Corp. Fruit juice squeezer. 4,711,167, 12-8-87, Cl. 99-510.000.
Sano, Takashi: *See*—
Oguni, Kensaku; Ishibane, Kyuhei; Kuroda, Shigeaki; Yasuda, Hiromu; Sano, Takashi; and Etou, Hironori. 4,706,469, Cl. 62-222.000.
Sano, Takayoshi: *See*—
Iguchi, Katsuhiko; Nitta, Satoru; Wada, Hidemi; and Sano, Takayoshi. 4,704,083, Cl. 425-466.000.
Sano, Takezo: *See*—
Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; and Sato, Shigenobu. 4,656,733, Cl. 29-602.00R.
Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; and Sato, Shigenobu. 4,658,226, Cl. 335-127.000.
Sano, Tetsuhiro: *See*—
Yoshikawa, Yoshitaka; Tsukamoto, Masahide; Nishimura, Yutaka; Ono, Hitoshi; and Sano, Tetsuhiro. 4,679,054, Cl. 346-76.0PH.
Sano, Tetsuo: *See*—
Hohki, Tetsuo; Sano, Tetsuo; Kodama, Eiji; and Tsujinaka, Hisayuki. 4,682,040, Cl. 250-571.000.
Sano, Tomohiko; Fujisawa, Noriyoshi; Fukuda, Masataka; and Suganuma, Tsuyoshi, to Kao Corporation. Detergent composition. 4,707,292, 11-17-87, Cl. 252-174.160.
Sano, Yasukazu, to Fuji Electric Company, Ltd. Optical fiber frequency filter and multiplexer using same. 4,702,550, 10-27-87, Cl. 350-96.160.
Sano, Yasuro, to Janome Sewing Machine Co., Ltd. Method of forming stitched patterns in combination in a sewing machine. 4,664,047, 5-12-87, Cl. 112-266.100.
Sano, Yasuro, to Janome Sewing Machine Co. Ltd. Mechanism for producing stitched patterns in a zigzag sewing machine. 4,691,655, 9-8-87, Cl. 112-466.000.
Sano, Yasuro: *See*—
Kato, Kenji; and Sano, Yasuro. 4,696,245, Cl. 112-264.100.
Murakami, Eiji; Sano, Yasuro; and Hyodo, Tohru. 4,677,925, Cl. 112-266.100.
Sano, Yoshiaki: *See*—
Egawa, Takashi; and Sano, Yoshiaki. 4,713,354, Cl. 437-22.000.
Sano, Yoshikazu: *See*—
Komuro, Isaku; and Sano, Yoshikazu. 4,650,932, Cl. 379-164.000.
Sano, Yoshio: *See*—
Inui, Shuji; and Sano, Yoshio. 4,714,806, Cl. 200-61.550.
Sano, Yoshitaka: *See*—
Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi. 4,658,299, Cl. 358-256.000.
Sano, Yosiaki, to Nihon Plast Co., Ltd. Ventilator grill and method for assembling the same. 4,702,156, 10-27-87, Cl. 98-40.240.
Sano, Yumiko; and Morimoto, Teruyo, to Mita Industrial Co., Ltd. Method for the formation of electrophotographic images. 4,634,646, 1-6-87, Cl. 430-31.000.
Sano, Yumiko: *See*—
Morimoto, Teruyo; Sano, Yumiko; Nimura, Eiji; Tomii, Yuji; and Maeda, Tatsuo. 4,701,389, Cl. 430-110.000.
Sano, Yutaka: *See*—
Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji. 4,670,188, Cl. 252-513.000.
Suginoya, Mitsuru; Iwasa, Koji; Kamamori, Hitoshi; Sano, Yutaka; and Terada, Yumiko. 4,639,088, Cl. 350-339.00F.
Suginoya, Mitsuru; Iwasa, Koji; Kamamori, Hitoshi; Sano, Yutaka; and Terada, Yumiko. 4,704,559, Cl. 315-169.100.
Sanofi: *See*—
Andre, Jean-Daniel; Grossi, Pierre-Jean; Heymes, Alain; and Manzaroli, Giovanni V., 4,675,419, Cl. 549-79.000.
Casellas, Pierre; Gros, Pierre; and Jansen, Franz. 4,643,895, Cl. 424-85.000.
Cecchi, Roberto; Boigegrain, Robert; Bianchetti, Alberto; Poggesi, Elena; and Croci, Tiziano. 4,707,497, Cl. 514-647.000.
Demarne, Henri; Filhol, Robert; and Mosse, Madeleine. 4,691,043, Cl. 560-064.000.
Descamps, Marcel; and Berger, Yves. 4,661,514, Cl. 514-469.000.
Diaz, Joseph; Demarne, Henri; Roncucci, Romeo; and Schmelck, Paul-Henry. 4,704,450, Cl. 530-324.000.
Diaz, Joseph; Demarne, Henri; Roncucci, Romeo; and Schmelck, Paul-Henry. 4,707,541, Cl. 530-324.000.
Duheille, Jean; Pau, Bernard; and Gros, Pierre. 4,690,906, Cl. 436-512.000.
Giral, Louis; Puygrenier, Marc; and Bompart, Jacques. 4,663,329, Cl. 514-301.000.
Godard, Jean-Henri; Ometz, Pierre; and Labrador, Jacques. 4,647,162, Cl. 350-574.000.
Jansen, Franz; and Gros, Pierre. 4,670,563, Cl. 546-278.000.
Martinez, Jean; Bali, Jean-Pierre; Castro, Bertrand; Nisato, Dino; and Demarne, Henri. 4,636,490, Cl. 514-15.009.
Martinez, Jean; Bali, Jean-Pierre; Magous, Richard; Castro, Bertrand; and Demarne, Henri. 4,687,759, Cl. 514-18.000.
Martinez, Jean; Bali, Jean-Pierre; Magous, Richard; Castro, Bertrand; and Demarne, Henri. 4,687,760, Cl. 514-18.000.
Nisato, Dino; Crisafulli, Emilio; Bianchetti, Alberto; and Carminati, Paolo. 4,691,019, Cl. 546-330.000.
Prost, Maurice; de Claviere, Michel; and Polster, Peter. 4,663,330, Cl. 514-312.000.
Rosa, Jean; Castaigne, Jean-Paul; Demarne, Henri; and Tozzolino, Pierre. 4,642,306, Cl. 514-222.000.
Salhi, Ali; and Olliero, Dominique. 4,656,166, Cl. 514-202.000.
Sebille, Bernard; Beuzard, Yves; and Demarne, Henri. 4,694,015, Cl. 514-375.000.
Sebille, Bernard; Beuzard, Yves; and Demarne, Henri. 4,696,937, Cl. 514-314.000.
Wermuth, Camille G.; Biziere, Kathleen; and Davi, Horace. 4,677,106, Cl. 514-247.000.
Wermuth, Camille G.; and Chambon, Jean-Pierre. 4,710,499, Cl. 514-247.000.
SANOFI and Industria Chimica Prodotti FRANCIS S.p.A.: *See*—
Andre, Jean-Daniel; Grossi, Pierre-Jean; Heymes, Alain; and Manzaroli, Giovanni V., 4,713,485, Cl. 562-470.000.
Sanofi S.A.: *See*—
Bayol, Alain; Lansen, Jacqueline; Maffrand, Jean P.; Pereillo, Jean-Marie; and Vallee, Eric. 4,699,900, Cl. 514-54.000.
Bayol, Alain; Blanc, Francis; Lansen, Jacqueline; Maffrand, Jean-Pierre; and Pereillo, Jean-Marie. 4,713,373, Cl. 514-54.000.
Sanoh Kogyo Kabushiki Kaisha: *See*—
Negishi, Shigeyuki; and Satake, Kouichi. 4,667,876, Cl. 237-12.30A.
Sanok, John L.: *See*—
Reilly, Albert F.; and Sanok, John L., 4,648,832, Cl. 425-543.000.
Sanozky, Rosemary B.: *See*—
Daeschel, Mark A.; McFeeters, Roger F.; Fleming, Henry P.; Klaenhammer, Todd R.; and Sanozky, Rosemary B., 4,666,849, Cl. 435-253.000.
Sanpei, Keiichi; Satoh, Yoshitaka; and Ohashi, Yoshimitsu, to Kubota Ltd. Rake device for rotary cultivators. 4,669,549, 6-2-87, Cl. 172-112.000.
Sanraku-Ocean Co., Ltd.: *See*—
Yamada, Tomiaki; Kamihonoki, Masuo; Sagara, Hiroshi; and Umino, Hiroshi, 4,680,263, Cl. 435-162.000.
Sanshin: *See*—
Takayasu, Hidekazu, 4,683,846, Cl. 123-73.00A.
Sanshin Kogyo Kabushiki Kaisha: *See*—
Ariga, Susumu, 4,686,941, Cl. 123-26.000.
Harada, Norimichi; and Onoue, Akihiro, 4,689,027, Cl. 440-75.000.
Harada, Norimichi, 4,693,689, Cl. 440-51.000.
Hoshiba, Akihiko; and Fujimoto, Hiroaki, 4,699,098, Cl. 123-192.00B.
Inoue, Seiji; and Takayasu, Hidekazu, 4,671,220, Cl. 123-73.00A.
Iwai, Tomio, 4,661,076, Cl. 440-77.000.
Iwai, Tomio; and Nakahama, Ryoji, 4,673,358, Cl. 440-61.000.

Iwai, Tomio; and Matsushita, Yukio, 4,677,826, Cl. 60-602.000.
Kanno, Isao; and Yamamoto, Yasuo, 4,708,669, Cl. 440-1.000.
Kojima, Akinori, 4,673,360, Cl. 440-88.000.
Matsumoto, Kuniyoshi, 4,708,674, Cl. 440-88.000.
Matsushita, Yukio, 4,700,671, Cl. 123-198.00C.
Mori, Atsushi, 4,638,771, Cl. 123-73.0AD.
Nakahama, Ryoji, 4,682,961, Cl. 440-61.000.
Nakase, Ryoichi, 4,702,714, Cl. 440-61.000.
Nishimura, Seiichi; and Takayasu, Hidekazu, 4,677,944, Cl. 123-73.00B.
Nishimura, Seiichi, 4,691,671, Cl. 123-73.00V.
Odashima, Rou, 4,637,355, Cl. 123-73.0AD.
Ogasahara, Takio; and Fujimoto, Hiroaki, 4,690,109, Cl. 123-73.00A.
Sugimoto, Makoto, 4,694,929, Cl. 180-311.000.
Sumigawa, Yukio, 4,701,141, Cl. 440-55.000.
Sumigawa, Yukio, 4,709,671, Cl. 123-196.00S.
Suzuki, Hideo; and Nozue, Kazunobu, 4,695,260, Cl. 440-61.000.
Taguchi, Michihiro; and Onoue, Akihiro, 4,637,802, Cl. 440-75.000.
Takeuchi, Toshio; Tomita, Hiroshi; and Ogasawara, Takio, 4,633,834, Cl. 123-424.000.
Uehara, Hidehiko, 4,701,151, Cl. 464-89.000.
Yanabe, Eifu; and Yamazaki, Toshiyuki, 4,698,037, Cl. 78.000.

Sanshin Suokai Co., Ltd.: *See*—
Inoue, Toshiaki, 4,671,402, Cl. 198-465.300.
Inoue, Toshiaki, 4,674,620, Cl. 198-345.000.

Sansho Seiyaku Co., Ltd.: *See*—
Higa, Yoshitaka, 4,696,813, Cl. 424-59.000.

Sansing, James E.; and McCarver, Byron M. Process for producing ammonium polyphosphate. 4,637,921, 1-20-87, Cl. 423-315.000.

Sansom, Bernard F.: *See*—
Allen, William M.; Sansom, Bernard F.; Wilson, Alan D.; Prosser, Havard J.; and Groffman, David M., 4,661,339, Cl. 424-486.000.

Sansom Smith, Melanie J.: *See*—
Lipson, Erik; and Sansom Smith, Melanie J., 4,687,306, Cl. 351-51.000.

Sansome, Dennis H.; and Jones, Gerald M., to National Research Development Corporation. Plug drawing of tubes and other hollow items. 4,655,065, 4-7-87, Cl. 72-45.000.

Sansome, Dennis H.; and Jones, Gerald M., to National Research Development Corporation. Plug drawing of tubes and other hollow items. 4,697,447, 10-6-87, Cl. 72-283.000.

Sansome, Dennis H.: *See*—
Ibrahim, Ibrahim N.; and Sansome, Dennis H., 4,689,981, Cl. 72-150.000.

Sanson, Charles: *See*—
Bourrelly, Paul; Monier, Jean; Patin, Henri; Sanson, Charles; and Schoepp, Robert, 4,658,251, Cl. 340-820.170.
Bourrelly, Paul; Patin, Henri; Schoepp, Robert; and Sanson, Charles, 4,684,265, Cl. 374-43.000.

Sansone, Michael J., to Celanese Corporation. Crosslinking of polybenzimidazole polymer with divinyl sulfone. 4,666,996, 5-19-87, Cl. 525-426.000.

Sansone, Michael J., to Celanese Corporation. Process for the production of polybenzimidazole ultrafiltration membranes. 4,693,824, 9-15-87, Cl. 210-500.280.

Sansone, Ronald P.; Cruz-Uribe, Antonio S.; and Chang, Mike S. H., to Pitney Bowes Inc. Offset ink jet postage printing. 4,673,303, 6-16-87, Cl. 400-126.000.

Sansone, Serge, to Bendix France. Control device for a twin master cylinder. 4,698,971, 10-13-87, Cl. 60-581.000.

Sansonetti, Pierre: *See*—
Menigaux, Louis; and Sansonetti, Pierre, 4,648,940, Cl. 156-649.000.

Sansores, Roy. Seating surface/gameboard device. 4,673,184, 6-16-87, Cl. 273-286.000.

Sansotta, Carmelo; and Spector, George. Saw horse. 4,711,319, 12-8-87, Cl. 182-155.000.

Sansui Electric Co., Ltd.: *See*—
Takahashi, Susumu; and Iida, Hiroshi, 4,716,590, Cl. 381-15.000.

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Saviolo, Giuseppe, 4,669,260, Cl. 57-331.000.

Santa Barbara Research Center: *See*—
Bargett, Charley B.; Osgood, Roderic L.; Davis, Joseph L.; and Joyce, Richard J., 4,695,794, Cl. 324-158.00R.
Buller, Joseph S., 4,694,175, Cl. 250-352.000.
Kern, Mark T.; and Shamordola, Kenneth A., 4,639,598, Cl. 250-339.000.
Kern, Mark T.; and Cinzori, Robert J., 4,647,776, Cl. 250-339.000.
Kern, Mark T.; Cinzori, Robert J.; and Fuller, William D., 4,655,607, Cl. 374-4.000.
Kern, Mark T.; and Cinzori, Robert J., 4,679,156, Cl. 364-551.000.
Kern, Mark T.; and Shamordola, Kenneth A., 4,691,196, Cl. 340-578.000.
Kern, Mark T.; Hodges, Steven E.; Snider, Danny G.; and Shamordola, Kenneth A., 4,701,624, Cl. 250-554.000.
Malek, Fritz J., 4,711,998, Cl. 250-203.00R.
Malek, Fritz J., 4,712,867, Cl. 350-103.000.
Rosbeck, Joseph P.; and Kasai, Ichiro, 4,639,756, Cl. 357-30.000.
Sugino, Paul S., 4,656,562, Cl. 362-32.000.

Santa Fe International Corporation: *See*—
Bhalaik, Arun; Braddick, Peter W.; Brittin, Darryl S.; and Johnson, Gerald L., 4,695,194, Cl. 405-207.000.
Field, Almeron J.; Johnson, Gerald L.; and Whyte, Daniel G., 4,666,341, Cl. 405-217.000.
Morris, Gordon A., 4,702,646, Cl. 405-169.000.
Recalde, Carlos E., 4,687,376, Cl. 405-168.000.

Santa, Stephen. Welding electrode dressing device. 4,668,136, 5-26-87, Cl. 409-181.000.

Santal Equipmentos S.A.: *See*—
Cerveira de Mello Ribeiro Pinto, Luiz A., 4,702,423, Cl. 241-60.000.

Santala, Timo J.: *See*—
Jost, Ernest M.; and Santala, Timo J., 4,700,475, Cl. 29-874.000.

Santalmi, Antonio, to Rockwell-Rimoldi S.p.A. Electromechanical friction brake for actuating and stopping a rotating element in predetermined positions. 4,640,397, 2-3-87, Cl. 192-18.00B.

Santalla, Richard W.; Kokkinos, Angelos; Collette, Robert J.; and McCartney, Michael S., to Combustion Engineering, Inc. System for injecting overfire air into a tangentially-fired furnace. 4,672,900, 6-16-87, Cl. 110-264.000.

Santalucia, John: *See*—
Tavss, Edward A.; Santalucia, John; and Carroll, David L., 4,693,395, Cl. 222-107.000.
Tavss, Edward A.; Temin, Samuel; Santalucia, John; and Carroll, Davis L., 4,693,396, Cl. 222-107.000.

Santambrogio, Alberto; and Mattei, Luciano, to Agip Petroli, S.p.A. Chemical compounds to be used as solid carriers for fuel additives. 4,692,170, 9-8-87, Cl. 44-63.000.

Santandrea, Luciano; and Luciani, Sabatino, to Axis S.p.A. Production line for pallet mounted electric motor stators. 4,713,883, 12-22-87, Cl. 29-736.000.

Santanera, Oreste; and Pavese, Ettore, to Fiat Ferroviaria Savigliano S.p.A. Constant-velocity transmission, particularly for connecting the drive motor to the driven wheels of a motorized railway vehicle. 4,674,410, 6-23-87, Cl. 105-131.000.

Santangelo, Francesco: *See*—
Casagrande, Cesare; and Santangelo, Francesco, 4,673,671, Cl. 514-80.000.

Santangelo, Joseph G.; Weber, James J.; Sinclair, Richard G.; and Tenaglia, Richard D., to Air Products and Chemicals, Inc. Method for producing metal castings. 4,633,929, 1-6-87, Cl. 164-34.000.

Santangelo, Joseph G.; Weber, James J.; and Sinclair, Richard G., to Air Products and Chemicals, Inc. Process for producing novel block alkylene polycarbonate copolymers. 4,665,136, 5-12-87, Cl. 525-523.000.

Santarelli, Paul: *See*—
Cohn, Robert J.; Olsson, Frank C.; Holzman, James W.; and Santarelli, Paul, 4,678,214, Cl. 292-213.000.

Sante Fe Braun Inc.: *See*—
Townsend, Robert W., 4,703,793, Cl. 165-1.000.

Santel, Hans-Joachim: *See*—
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,645,528, Cl. 71-90.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochim; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,659,364, Cl. 71-92.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,666,505, Cl. 71-92.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,680,052, Cl. 71-91.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,704,158, Cl. 71-92.000.
Forster, Heinz; Diehr, Hans-Joachim; Maurer, Fritz; Klauke, Erich; Eue, Ludwig; Santel, Hans-Joachim; Schmidt, Robert R.; Reinecke, Paul; and Hanssler, Gerd, 4,708,731, Cl. 71-90.000.
Gehring, Reinhold; Klauke, Erich; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,668,280, Cl. 71-92.000.
Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,681,618, Cl. 71-92.000.
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Gehring, Reinhold; Lindig, Markus; Schallner, Otto; Santel, Hans-Joachim; Schmidt, Robert R.; and Stetter, Jorg, 4,695,308, Cl. 71-86.000.
Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; Schmidt, Robert R.; and Lurssen, Klaus, 4,711,658, Cl. 71-92.000.
Knops, Hans-Joachim; Babczinski, Peter; Eue, Ludwig; Santel, Hans-Joachim; and Schmidt, Robert R., 4,670,044, Cl. 71-92.000.
Pfister, Theodor; Forster, Heinz; Eue, Ludwig; Schmidt, Robert R.; and Santel, Hans-Joachim, 4,670,040, Cl. 71-86.000.
Schwamborn, Michael; Kuhle, Engelbert; Klauke, Erich; Eue, Ludwig; Schmidt, Robert R.; Santel, Hans-Joachim; and Hanssler, Gerd, 4,640,923, Cl. 514-272.000.
Stetter, Jorg; Wroblowsky, Heinz-Jurgen; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Lurssen, Klaus, 4,638,004, Cl. 514-272.000.
Stetter, Jorg; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Eue, Ludwig, 4,659,366, Cl. 71-92.000.

Wroblowsky, Heinz-Jurgen; Stetter, Jorg; Eue, Ludwig; Schmidt, Robert R.; and Santel, Hans-Joachim, 4,636,245, Cl. 71-90.000.

Santella, Michael L.: *See*—
Pryor, Michael J.; and Santella, Michael L., 4,648,437, Cl. 164-463.000.
Pryor, Michael J.; and Santella, Michael L., 4,663,242, Cl. 428-558.000.
Shapiro, Eugene; and Santella, Michael L., 4,711,826, Cl. 428-630.000.

Santen, Sven, to SKF Steel Engineering AB. Method for destroying refuse. 4,635,573, 1-13-87, Cl. 110-346.000.

Santen, Sven; and Ledin, Ivar, to SKF Steel Engineering AB. Method and apparatus for heating a first gas flow with a second gas flow. 4,652,725, 3-24-87, Cl. 219-121.0PY.

Santen, Sven; and Johansson, Borje, to SKF Steel Engineering AB. Condensation of zinc vapor. 4,687,513, 8-18-87, Cl. 75-88.000.

Santen, Sven; Bernhard, Ragnar; and Malmeblad, Sven-Erik, to SKF Steel Engineering AB; and Stora Kopparbergs Bergslags AB. Recovery of chemicals from pulp waste liquor. 4,692,209, 9-8-87, Cl. 162-30.100.

Santen, Sven; Eriksson, Sven; and Bernhard, Ragnar, to SKF Steel Engineering AB. Recovering chemicals from spent pulp liquors. 4,710,269, 12-1-87, Cl. 162-30.100.

Santer, J. Owen, to Monsanto Company. High solids curable resin coating composition. 4,634,738, 1-6-87, Cl. 525-162.000.

Santhouse, Daniel: *See*—
Skovdal, Jorgen; Santhouse, Daniel; Jensen, Borge; and Carlucci, Vito, 4,680,444, Cl. 219-222.000.

Santi, John D., to Briggs & Stratton Corporation. Method of forming a laminated wheel assembly. 4,633,556, 1-6-87, Cl. 29-159.200.

Santiago, Elias. Building intercom system. 4,658,095, 4-14-87, Cl. 379-103.000.

Santiago, Julio A. Illuminated gunsight. 4,713,889, 12-22-87, Cl. 33-241.000.

Santii, Robert J.; and Aldieri, Raymond, to Lori Corporation. Key duplication machine. 4,687,389, 8-18-87, Cl. 409-81.000.

Santilli, Domenic, to Eastman Kodak Company. Self-fixing liquid electrographic developers containing polyester toners and dispersed wax and processes for using the same. 4,659,640, 4-21-87, Cl. 430-119.000.

Santilli, Domenic: *See*—
Alexandrovich, Peter S.; Santilli, Domenic; and Ng, Yee S., 4,701,387, Cl. 430-45.000.
Myers, Drewfus Y., Jr.; Alexandrovich, Peter S.; Pearce, Glenn T.; Santilli, Domenic; Sreekumar, Chandrasekha; Berwick, Martin A.; Upson, Donald A.; and Goebel, William K., 4,708,923, Cl. 430-112.000.
Ng, Yee S.; Rossi, Louis J.; and Santilli, Domenic, 4,654,282, Cl. 430-54.000.

Santilli, Donald S.; Long, John J.; and Lewis, Robert T., to Chevron Research Company. Highly active and highly selective aromatization catalyst. 4,698,322, 10-6-87, Cl. 502-74.000.

Santilli, Donald S.; Long, John J.; and Lewis, Robert T., to Chevron Research Company. Highly active and highly selective aromatization catalyst. 4,699,894, 10-13-87, Cl. 502-74.000.

Santilli, Michael A. Cover plate plug retainer. 4,702,709, 10-27-87, Cl. 439-144.000.

Santin, Ernest M.: *See*—
Fenton, Paul V., Jr.; Young, Thomas M.; Adamiya, George; Denis, Richard E.; Miller, Robert L.; and Santin, Ernest M., 4,652,260, Cl. 604-67.000.
Fenton, Paul V., Jr.; Miller, Robert L.; and Santin, Ernest M., 4,681,566, Cl. 604-135.000.

Santini, Hugo A. A., to International Business Machines. Electroplating cell. 4,696,729, 9-29-87, Cl. 204-224.00R.

Santini, Jean-Jacques G. R. Protective helmet for sport or work. 4,665,569, 5-19-87, Cl. 2-425.000.

Santo, David R.: *See*—
Mahalek, Thomas L.; and Santo, David R., 4,659,641, Cl. 430-137.000.

Santo Industries Co., Ltd.: *See*—
Watabe, Takaharu, 4,660,251, Cl. 16-367.000.

Santo, Philip J. Marginal perimeter support containment chamber for a floatation sleep system. 4,651,368, 3-24-87, Cl. 5-452.000.

Santo, Philip J. Marginal perimeter support containment chamber for a floatation sleep system. 4,663,790, 5-12-87, Cl. 5-452.000.

Santo, Philip J. Decorative cover for a floatation sleep system. 4,689,843, 9-1-87, Cl. 5-452.000.

Santo, Philip J. Deck for supporting a floatation sleep system bladder. 4,696,071, 9-29-87, Cl. 5-451.000.

Santo, Philip J. Floatation sleep system including a rectilinear perimeter air chamber. 4,700,419, 10-20-87, Cl. 5-452.000.

Santo, Phillip J. Compact collapsable floatation sleep surface pedestal and container therefor. 4,675,929, 6-30-87, Cl. 5-400.000.

Santo, Ubirajara do E.: *See*—
Farias, Paulo D.; Mazzei, Francisco A. F.; Santo, Ubirajara do E.; and Werle, Paulo, 4,644,256, Cl. 323-299.000.

Santomango, Anthony; and Hatheway, Nicholas N., Jr., to Artronics Corporation. Electronic burn-in system. 4,636,725, 1-13-87, Cl. 324-158.00F.

Santomango, Anthony; and Hatheway, Nicholas N., Jr., to Artronics Corporation. Electronic burn-in system. 4,636,726, 1-13-87, Cl. 324-158.00F.

Santoni, Tancredo: *See*—
Baecchi, Alfredo; Bozzolini, Aldo; Santoni, Tancredo; and Mori, Carlo, 4,646,626, Cl. 99-275.000.

Santos, Abelardo M.; Calabrese, Peter J.; Schmidt, Gary W.; and Bujese, David P., to Olin Hunt Specialty Products, Inc. Method of imaging resist patterns of high resolution on the surface of a conductor. 4,661,431, 4-28-87, Cl. 430-176.000.

Santos, Edward: *See*—
Chun, Kil Whan; Lang, David J.; and Santos, Edward, 4,655,780, Cl. 8-108.100.
Chun, Kil Whan; Gilbert, Allan H.; Lang, David J.; and Santos, Edward, 4,707,160, Cl. 8-101.000.

Santos, Llandro C.: *See*—
Amariti, Luigi; and Santos, Llandro C., 4,714,670, Cl. 430-331.000.

Santos, Luis, to Babcock Power Limited. Inertia stop for sudden loads. 4,669,584, 6-2-87, Cl. 188-134.000.

Santos, Manuel V. Surgical clip applicator system. 4,635,634, 1-13-87, Cl. 128-325.000.

Santos, Manuel V. Blood vessel dilating surgical instrument. 4,648,402, 3-10-87, Cl. 128-345.000.

Santostasi, Paul A.: *See*—
Dutt, Herbert V.; and Santostasi, Paul A., 4,637,519, Cl. 215-232.000.
Dutt, Herbert V.; Foldesi, Istvan; and Santostasi, Paul A., 4,683,016, Cl. 156-69.000.
Dutt, Herbert V.; and Santostasi, Paul A., 4,687,116, Cl. 220-270.000.

Santrade Limited: *See*—
Bengtsson, Ulf A., 4,641,718, Cl. 175-331.000.
Carlsson, Stiv E. I.; Gustafsson, Lars-Erik; and Robertsson, Karl T. W., 4,674,924, Cl. 407-114.000.
Eklof, Ake T.; and Wiredal, Harry A. I., 4,687,368, Cl. 403-343.000.
Hedlund, Jan-Gunnar, 4,705,321, Cl. 299-81.000.
Hellbergh, Axel H., 4,655,648, Cl. 407-42.000.
Isaksson, Karl B., 4,669,931, Cl. 408-206.000.
Isaksson, Karl B.; and Svahn, Bror G. K., 4,712,952, Cl. 408-211.000.
Karlsson, Kurt O.; and Karlsson, Leif E., 4,648,760, Cl. 408-223.000.
Lagerberg, Stig E. V., 4,714,384, Cl. 407-103.000.
Leini, Arvo, 4,665,618, Cl. 30-392.000.
Markusson, Lars O., 4,681,488, Cl. 407-114.000.
Norfolk, Michael P., 4,633,998, Cl. 198-465.300.
Oskarsson, Rolf G.; von Holst, Johan P.; and Eriksson, Erik G., 4,698,205, Cl. 419-5.000.
Pettersson, Lars T., 4,681,487, Cl. 407-114.000.
Roos, Aage V., 4,684,298, Cl. 408-59.000.
Roos, Aage V., 4,687,387, Cl. 408-144.000.
Schachner, Herbert; Tippmann, Heinz; Lux, Benno; Stjernberg, Klas G.; and Thelin, Anders G., 4,707,384, Cl. 427-249.000.
Schermutzki, Konrad, 4,690,721, Cl. 156-307.500.
Stabler, Gerhard, 4,714,015, Cl. 100-154.000.
Strandell, Ingemar H.; and Horlin, Nils A., 4,668,087, Cl. 356-138.000.
Wirfelt, Sven A. O., 4,642,006, Cl. 409-233.000.

Santucci, Donald; and Denemark, Phillip W., to D.E.K. Inc. Flat wire clip. 4,635,886, 1-13-87, Cl. 248-73.000.

Santucci, Joseph, to Electric Power Research Institute, Inc. Reactivity control of nuclear fuel pellets by volumetric redistribution of fissile, fertile and burnable poison material. 4,668,468, 5-26-87, Cl. 376-419.000.

Santulli, Scott: *See*—
Brass, Robert L.; Glaberson, John; Mason, Richard W.; L'Heureux, Arthur J., III; Santulli, Scott; Roth, G. Thomas; Frega, John; and Imiolek, Henry S., 4,692,603, Cl. 235-454.000.

Santurtun, Carlos M.; and Carmena, Angel D., to General Electric Company. Current-limit circuit in X-ray generator. 4,654,770, 3-31-87, Cl. 363-17.000.

Sanui, Kohei: *See*—
Ogata, Naoya; Sanui, Kohei; Yui, Nobuhiko; Nojima, Kazuhiko; Kataoka, Kazunori; Okano, Teruo; and Sakurai, Yasuhisa, 4,687,831, Cl. 528-64.000.

Sanwa Kagaku Kenkyusho Co., Ltd.: *See*—
Kurono, Masayasu; Hayashi, Motohide; Suzuki, Tsunemasa; Miura, Kenji; Kumagai, Yoshihiro; Matsumoto, Yukiharu; Miyano, Seiji; and Sumoto, Kunihiro, 4,678,801, Cl. 514-413.000.

Sanwa Seiki Mfg. Co., Ltd.: *See*—
Koyanagi, Yuzo, 4,644,475, Cl. 364-431.070.

Sanwa Shutter Corporation: *See*—
Hirao, Masato, 4,662,420, Cl. 160-32.000.

Sanwo, Ikuo J.; Chiu, Albert P.; and Kerber, William O., to NCR Corporation. Assist circuit for improving the rise time of an electronic signal. 4,647,797, 3-3-87, Cl. 307-443.000.

Sanwo, Ikuo J.; Lauffer, Donald K.; and Tipon, Donald G., to NCR Corporation. CMOS to ECL converter-buffer. 4,704,549, 11-3-87, Cl. 307-475.000.

Sanwo, Ikuo J.: *See*—
Kerber, William O.; Boates, Roger W.; and Sanwo, Ikuo J., 4,689,496, Cl. 307-269.000.
Lauffer, Donald K.; and Sanwo, Ikuo J., 4,656,375, Cl. 307-475.000.
Lauffer, Donald K.; Milby, Gregory H.; Rostek, Paul M.; and Sanwo, Ikuo J., 4,713,827, Cl. 375-7.000.

Sanyei Corp.: *See*—
Motegi, Akio; and Saito, Takao, 4,716,276, Cl. 219-253.000.

Sanyo Chemical Industries, Ltd.: *See*—
Noda, Kimihiko; Fujiura, Yoji; and Hasegawa, Yoichi, 4,710,298, Cl. 210-505.000.

Shimamoto, Hideki; Miyazaki, Yoshio; Aoshima, Yoichi; Tsunetsugu, Tsuyoshi; Nagara, Hisao; Kuwae, Yoshiteru; and Shiono, Kazushi, 4,652,968, Cl. 361-319.000.
Takematsu, Tetsuo; Takeuchi, Yasutomo; Hiraishi, Kozo; Fujii, Toshikazu; Nishimula, Shoji; Suzuki, Motoyuki; Sato, Masahiro; and Hayashi, Hiroshi, 4,657,581, Cl. 71-118.000.
Sanyo Denki Co., Ltd.: *See*—
Kurokawa, Kazuo; and Tanaka, Tadashi, 4,639,854, Cl. 364-157.000.
Watanabe, Hideji; Ohki, Hiroshi; and Watanabe, Keizou, 4,634,063, Cl. 242-1.10R.
Sanyo Denshikogyo Co. Ltd.: *See*—
Sato, Toru; and Moriya, Kozo, 4,648,395, Cl. 128-204.230.
Sanyo Electric Co., Ltd.: *See*—
Aiga, Masayuki; and Hashiguchi, Tetsuji, 4,644,225, Cl. 315-39.510.
Amao, Nobuyoshi; Takahashi, Yoshihisa; and Yokomizo, Hitoshi, 4,668,884, Cl. 310-68.00R.
Arai, Takeshi; Ebara, Masami; and Ueyama, Hiroyuki, 4,658,293, Cl. 358-140.000.
Asano, Tetsuro, 4,694,320, Cl. 357-40.000.
Awane, Misao; Hara, Seiji; and Kobayashi, Satoshi, 4,706,794, Cl. 194-217.000.
Deguchi, Yutaka; and Tsuchida, Yasuyuki, 4,640,601, Cl. 355-3.00R.
Deguchi, Yutaka; and Tsuchida, Yasuyuki, 4,653,895, Cl. 355-1.000.
Doutsubo, Nobuhide, 4,642,704, Cl. 360-10.200.
Doutsubo, Nobuhide, 4,663,673, Cl. 360-9.100.
Doutsubo, Nobuhide, 4,682,247, Cl. 360-10.200.
Fujio, Akihiko; Iwaki, Hiroshi; Tsuboi, Kunio; and Sutoh, Akihiko, 4,711,551, Cl. 355-3.0DD.
Fujiwara, Masakatsu; Kamitani, Yutaka; and Yamamura, Touru, 4,675,266, Cl. 430-102.000.
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Fukasawa, Minoru, 4,701,588, Cl. 219-10.770.
Fukatsu, Takeo; Takeuchi, Masaru; and Goto, Kazuyuki, 4,680,607, Cl. 357-30.000.
Fukatsu, Takeo; Goto, Kazuyuki; Haku, Hisao; and Kuwano, Yukinori, 4,681,826, Cl. 430-65.000.
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Furukawa, Nobuhiro; Murakami, Shuzo; and Nishioka, Masato, 4,680,240, Cl. 429-13.000.
Hineno, Kazuhiro; and Kura, Atsushi, 4,653,664, Cl. 221-3.000.
Hinotani, Katsuhiro; Hayama, Hajime; Kishimoto, Shunichi; Miwa, Takashi; Funazo, Yasuo; and Kouno, Kazuhiro, 4,654,559, Cl. 313-422.000.
Hiramatsu, Tatsuo, 4,638,364, Cl. 358-227.000.
Hirose, Kunio; Hukuta, Tadatoshi; Horiuchi, Hiroshi; Urakami, Toyozo; and Yoshida, Minoru, 4,670,801, Cl. 360-85.000.
Honda, Kunioki, 4,662,193, Cl. 68-12.00R.
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Hosoya, Yoshinori; Tunekawa, Shyozi; Yamada, Wazoh; and Shiraishi, Akira, 4,637,223, Cl. 62-263.000.
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Ito, Kazuo; Kudo, Toshiyuki; and Hama, Ritsuo, 4,697,074, Cl. 250-211.00R.
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Itoh, Fumihiko; Usagawa, Tatumi; Sakai, Ryo; and Yamamoto, Yasakao, 4,666,113, Cl. 248-201.000.
Iwaki, Hiroshi, 4,645,329, Cl. 355-8.000.
Kamitani, Yutaka; and Nakanishi, Yuji, 4,666,286, Cl. 355-8.000.
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Kishi, Yasuo, 4,686,321, Cl. 136-244.000.
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Kiyama, Seiichi; Kihara, Hitoshi; and Imai, Hideki, 4,668,840, Cl. 136-244.000.
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Kurome, Shosaku; Maeda, Yosinari; and Emoto, Hiromi, 4,664,530, Cl. 366-205.000.
Kuwahara, Takashi; Shimura, Yoshiharu; Hayashi, Yuko; Hanamure, Toshiyuki; Kanemori, Kaoru; and Yamakawa, Yoshihiro, 4,711,098, Cl. 62-441.000.
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Maeda, Hideo; Hori, Tadashi; and Tani, Tatsuya, 4,669,534, Cl. 165-59.000.
Matsuura, Kotaro; and Oyamada, Kenji, 4,697,217, Cl. 360-125.000.
Minami, Koji; Goto, Kazuyuki; Haku, Hisao; Fukatsu, Takeo; Ohnishi, Michitoshi; and Kuwano, Yukinori, 4,670,367, Cl. 430-57.000.
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Miyai, Kiyoshi; Shuhei, Uotani; Tsunemine, Toyohiko; Kamitani, Yutaka; and Nakanishi, Yuji, 4,666,281, Cl. 355-3.0SH.
Miyake, Yasuo; Tajima, Osamu; Nishioka, Masato; and Itoh, Yasuhiko, 4,686,157, Cl. 429-19.000.
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Morishita, Takuya; Kurioka, Akihiko; and Morita, Akihiro, 4,648,150, Cl. 15-389.000.
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Nakao, Kiyoshi; Husayasu, Kazuaki; and Iwasaki, Shozi, 4,646,451, Cl. 38-77.300.
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Nomura, Shigeo; and Nakanishi, Syoji, 4,702,007, Cl. 30-423.000.
Ohya, Satoshi; and Hoshi, Katsuhiko, 4,674,292, Cl. 62-223.000.
Otani, Kiyoshi, 4,716,557, Cl. 369-32.000.
Sakai, Haruo; and Hiejima, Kiyoshi, 4,705,926, Cl. 219-10.55B.
Sakai, Mutsuo, 4,686,706, Cl. 455-186.000.
Sakaji, Yoshihiko, 4,651,277, Cl. 364-200.000.
Shimizu, Hiroyasu; Inamura, Atsuo; and Haraguchi, Manabu, 4,664,289, Cl. 221-2.000.
Shimizu, Yohei, 4,639,706, Cl. 336-170.000.
Shirai, Yoshinari; and Kuranaga, Tutomu, 4,637,373, Cl. 126-340.000.
Shiraki, Kenhachi; Kikkawa, Shinichi; Izawa, Takaharu; Miyazaki, Yoshifumi; Nonoue, Torahiko; and Moriki, Etsuzo, 4,645,328, Cl. 355-8.000.
Shono, Masahiro, 4,649,464, Cl. 363-21.000.
Sugiura, Youji, 4,658,369, Cl. 364-513.500.
Suzuki, Masami; Hirota, Tatsuya; and Maeda, Masahiko, 4,640,022, Cl. 34-48.000.
Tabuchi, Junichiro, 4,668,900, Cl. 318-608.000.
Tajima, Osamu; Yamada, Makoto; Hagino, Hideo; and Nishizawa, Nobuyoshi, 4,640,873, Cl. 429-24.000.
Takao, Osamu; Yoshida, Minoru; and Ono, Seiichi, 4,672,479, Cl. 360-95.000.
Takizawa, Takashi; and Tanaka, Tsutomu, 4,648,247, Cl. 62-256.000.
Tanaka, Kanji; and Arai, Masashi, 4,707,856, Cl. 381-15.000.
Tanimoto, Yoshihiro, 4,652,111, Cl. 355-3.0DD.
Togashi, Shigeru; Saitoh, Hiromi; Takahashi, Shigeyuki; Makino, Yasuo; Kakinuma, Mitsuru; Satoh, Shigeo; and Sugiyama, Shigeki, 4,703,628, Cl. 62-135.000.
Tohya, Syoichi; and Takahashi, Minoru, 4,636,703, Cl. 320-2.000.
Tomita, Hiroshi, 4,647,030, Cl. 271-22.000.
Toyonaga, Kenji; Higashitsutsumi, Yoshihito; Yanai, Akihiro; and Akiyama, Toru, 4,667,338, Cl. 377-45.000.
Toyonaga, Kenji; Higashitsutsumi, Yoshihito; and Yanai, Akihiro, 4,689,785, Cl. 370-85.000.
Tsutsumi, Masaru; Hagino, Hideo; Fujiwara, Osamu; and Goto, Hitoshi, 4,642,274, Cl. 429-35.000.
Tsutsumi, Masaru; Hagino, Hideo; and Fujiwara, Osamu, 4,670,361, Cl. 429-34.000.
Yagi, Katsumi, 4,680,768, Cl. 372-45.000.
Yamada, Makoto; and Tsukamoto, Kazuyoshi, 4,670,702, Cl. 320-21.000.
Yamagishi, Yasufumi, 4,651,256, Cl. 361-423.000.
Yamano, Masaru; Sakai, Takashi; Furukawa, Nobuhiro; Murakami, Shuzo; and Matsumoto, Takanao, 4,636,445, Cl. 429-53.000.
Yamano, Masaru; Kuwano, Yukinori; Nakano, Shoichi; Matsuoka, Tsugufumi; Sakai, Souichi; Yagi, Hirosato; and Okuda, Nobuhiro, 4,670,293, Cl. 427-39.000.
Yasuda, Isao; Yoshisato, Yorinobu; Yoshikawa, Hideki; and Taketa, Kazuhiko, 4,713,709, Cl. 360-121.000.
Yokota, Yutaka; and Shimasaki, Hiroshi, 4,636,684, Cl. 313-412.000.
Sanyo Fine Co., Ltd.: *See*—
Hirose, Sachio; Homma, Tammotsu; Kurihara, Takashi; Adachi, Hidenari; Sako, Yoshitaka; and Shibata, Makiko, 4,703,106, Cl. 530-307.000.
Sanyo Kagaku Kogyo Kabushiki Kaisha: *See*—
Inoue, Shigehiro, 4,658,959, Cl. 206-409.000.
Sanyo Kiki Kabushiki Kaisha: *See*—
Tanino, Masahiro; and Higuchi, Tomoyuki, 4,635,532, Cl. 91-436.000.
Sanyo-Kokusaku Pulp Co., Ltd.: *See*—
Kinoshita, Toru, 4,645,783, Cl. 523-221.000.
Kinoshita, Toru, 4,656,218, Cl. 524-460.000.
Kubo, Motonobu, 4,639,500, Cl. 526-301.000.
Masaoka, Yoshiji; and Kobo, Motonobu, 4,672,080, Cl. 522-46.000.
Mino, Hisashi; Yabe, Norio; and Iijima, Takeshi, 4,670,371, Cl. 430-143.000.
Shibano, Tomishi; Kimura, Itsuo; and Maruchi, Sachio, 4,636,432, Cl. 428-327.000.
Urata, Keiji; and Kurome, Yoshio, 4,683,264, Cl. 525-65.000.
Yamashina, Naotoshi; and Yabuta, Fumihiko, 4,652,324, Cl. 156-242.000.
Sanyo Mikawa Body Corp.: *See*—
Oguro, Yukito, 4,682,811, Cl. 296-181.000.
Sanyo Special Steel Company, Limited: *See*—
Kudo, Yasuichi, 4,706,022, Cl. 324-243.000.
Sanz, Ernst; Steger, Jean P.; and Thie, Werner, to Sanz, Ernst. Apparatus for cardiogoniometry, 4,697,597, 10-6-87, Cl. 128-699.000.
Saotome, Kaoru; Sasaki, Hiroyuki; and Kanbara, Katsuhiro, to Toyota Jidosha Kabushiki Kaisha; Nihon Sekiso Kogyo; and Maruyasu

Industries Co., Ltd. Tube protecting device. 4,705,244, 11-10-87, Cl. 248-68.100.
Saotome, Kazuo, to Hayashikane Shipbuilding & Engineering Co., Ltd. Water absorbent crosslinked polymer and a method of producing the same containing cellulosis fibers. 4,647,617, 3-3-87, Cl. 524-733.000.
Saotome, Masaru; Saigo, Fumitaka; and Kokubun, Hitoshi, to Nissan Motor Co., Ltd. Stabilizer for motor road vehicles. 4,664,408, 5-12-87, Cl. 280-689.000.
Saotome, Minoru: *See*—
Morimoto, Yutaka; Saotome, Minoru; and Komai, Atsushi, 4,696,760, Cl. 252-314.000.
Tamura, Fumihide; and Saotome, Minoru, 4,645,754, Cl. 502-527.000.
Saotome, Shigeru: *See*—
Matsuda, Terumi; Aagano, Toshitaka; Miyahara, Junji; Nakajima, Nobuyoshi; and Saotome, Shigeru, 4,680,473, Cl. 250-484.100.
Sapal, Societe Anonyme des Plieuses Automatiques: *See*—
Chenevard, Alexis, 4,677,808, Cl. 53-238.000.
Sapatino, Bruno V., to Becton, Dickinson and Company. Replica plating device. 4,634,676, 1-6-87, Cl. 435-294.000.
Saperstein, Richard: *See*—
Freidinger, Roger; Nutt, Ruth F.; Lyle, Terry A.; and Saperstein, Richard, 4,703,034, Cl. 514-11.000.
Saperstein, Z. Philip; Arneson, Dean A.; Larrabee, Scott R.; Logic, Jeffrey A.; Costello, Norman F.; and Awe, Russell C., to Modine Manufacturing Company. Method of making a heat exchanger. 4,688,311, 8-25-87, Cl. 29-157.30R.
Saperstein, Zalman P.: *See*—
Logic, Jeffrey A.; Awe, Russell C.; Costello, Norman F.; and Saperstein, Zalman P., 4,651,815, Cl. 165-76.000.
SAPHYR S.A.R.L.: *See*—
Grinda, Francoise; and Gueyne, Jean, 4,698,222, Cl. 421-195.000.
Sapiejewski, Roman, to Bose Corporation. Headphone with sound pressure sensing means. 4,644,581, 2-17-87, Cl. 381-74.000.
Sapino, Chet, Jr.: *See*—
Brundidge, Steven P.; Brodfuehrer, Paul R.; Sapino, Chet, Jr.; Shih, Kun M.; and Walker, Donald G., 4,714,760, Cl. 540-222.000.
Sapir, Daniel G.: *See*—
Walser, Mackenzie; Sapir, Daniel G.; and Stewart, Peter M., 4,677,121, Cl. 514-561.000.
Sapitowicz, Thomas P.; and Stevens, Gerald S., Jr., to General Instrument Corporation. Non-impact spark jet print head. 4,647,949, 3-3-87, Cl. 346-140.00R.
Sapitowicz, Thomas P., to General Instrument Corp. Horizontally or vertically orientable compact ticket processor. 4,695,171, 9-22-87, Cl. 400-70.000.
Sapitowicz, Thomas P.: *See*—
Stevens, Gerald S., Jr.; Sapitowicz, Thomas P.; and Davis, Edward D., 4,642,660, Cl. 346-140.00R.
Sapoff, Paul C., to Catalyst Technology, Inc. Modular multi-tube catalyst loading funnel. 4,701,101, 10-20-87, Cl. 414-786.000.
Sapone, Frank P., to Carlingswitch, Inc. Snap-on actuator for toggle switch. 4,686,339, 8-11-87, Cl. 200-339.000.
Saporito, Michael J.; Deleo, Salvatore J.; Lewis, Paul A.; Curtis, Albert E., III; D'Arienzo, Joseph; and Roller, David P., Jr., to Rochester Gas & Electric Corp. Ultrasonic inspection system. 4,663,727, 5-5-87, Cl. 364-551.000.
Sapp, Charles E. Clock with calendar notepad. 4,709,493, 12-1-87, Cl. 40-117.000.
Sapp, Samuel C., to Marine Technological Exchange, Inc. High speed planing boat with cantilevered planing surface. 4,655,157, 4-7-87, Cl. 114-291.000.
Sapper, Rainer, to Linde Aktiengeselischaft. Separation of CO_2 from a gaseous mixture. 4,695,304, 9-22-87, Cl. 62-27.000.
Sapper, Rainer, to Linde Aktiengesellschaft. Separation of C_{3+} hydrocarbons by absorption and rectification. 4,705,549, 11-10-87, Cl. 62-30.000.
Sapper, Rainer; and Kick, Helmut, to Linde Aktiengesellschaft. Process for separating CO_2 from a gaseous mixture. 4,710,213, 12-1-87, Cl. 62-28.000.
Sappl, Peter: *See*—
Brunsch, Klaus; Sappl, Peter; and Bongers, Bernd, 4,634,399, Cl. 464-87.000.
Sappok, Manfred, to Siempelkamp Giesserei GmbH & Co. Method of and apparatus for the introduction of radiocative metallic wastes into a melting furnace. 4,708,571, 11-24-87, Cl. 414-412.000.
Sapporo Breweries, Ltd.: *See*—
Maeda, Hironobu; Kitahara, Seizaburo; Yosimura, Haruo; Torawaki, Takao; Yaegasi, Takasi; and Yamaoka, Isao, 4,677,934, Cl. 118-58.000.
Sapru, Krishna: *See*—
Reichman, Benjamin; Liang, Gao; and Sapru, Krishna, 4,656,103, Cl. 429-111.000.
Saputo, Peter. Drum resonance eliminator. 4,671,158, 6-9-87, Cl. 84-411.00M.
Sara Lee Corporation: *See*—
Bell, Cecil R., Jr.; Thomas, Richard; London, Jasper R.; and Sizemore, Walter R., 4,658,564, Cl. 53-250.000.
Edson, Sydney, 4,697,776, Cl. 248-311.200.
Howard, Fred; and Edson, Sydney, 4,705,175, Cl. 211-59.200.
London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.
London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,704,976, Cl. 112-262.200.
Saracsan, Jeffrey W.; and Oswalt, Stephen M., to Ashland Oil, Inc. Primer and sealant for glass and coated metal. 4,643,794, 2-17-87, Cl. 156-310.000.
Saraga, Pepe. Earring. 4,704,878, 11-10-87, Cl. 63-14.00R.
Saraisky, Alfred, to E & A Enterprises. Inserts and cooperating retaining means for use with web dispensing means. 4,659,031, 4-21-87, Cl. 242-96.000.
Sarandi, Jury L.: *See*—
Tjumanok, Alexei N.; Tamm, Yaan V.; and Sarandi, Jury L., 4,653,700, Cl. 241-79.100.
Sarang, Gursharan S.: *See*—
Thorpe, John E.; and Sarang, Gursharan S., 4,715,116, Cl. 29-846.000.
Sarapata, James S.; and Shaffery, Raymond, to Church and Dwight Co., Inc. Method for the preparation of a bicarbonate sorbent in flue gas desulfurization. 4,664,893, 5-12-87, Cl. 423-244.000.
Sarasota Automation Limited: *See*—
Duley, Richard K.; and Evans, David F. J., 4,668,951, Cl. 340-941.000.
Saraswat, Krishna: *See*—
Moslehi, Mehrdad M.; Fu, Chi Y.; and Saraswat, Krishna, 4,715,937, Cl. 204-177.000.
Saraswat, Krishna C.: *See*—
Gardner, Donald S.; Saraswat, Krishna C.; and Barbee, Troy W., Jr., 4,673,623, Cl. 428-620.000.
Sarau, Henry M.: *See*—
Bender, Paul E.; Griswold, Don E.; Hanna, Nabil; and Sarau, Henry M., 4,686,231, Cl. 514-333.000.
Sarauer, Alan J. Vehicle frame measurement device. 4,683,663, 8-4-87, Cl. 33-288.000.
Saravanos, Constantine: *See*—
Lowe, Richard S.; and Saravanos, Constantine, 4,636,071, Cl. 356-73.100.
Sarazen, Paul M.: *See*—
Sarazen, Paul M., Jr.; and Beam, Dennis A., 4,715,532, Cl. 236-49.000.
Sarazen, Paul M., Jr., and Beam, Dennis. Ventilator mounting spring. 4,669,371, 6-2-87, Cl. 98-29.000.
Sarazen, Paul M., Jr.; and Beam, Dennis A., to Sarazen, Paul M.; and Beam, Dennis A. Adjustably resettable, temperature-responsive automatic ventilator. 4,715,532, 12-29-87, Cl. 236-59.000.
Sarazin, Marc: *See*—
Bretaudeau, Francis; and Sarazin, Marc, 4,642,469, Cl. 250-561.000.
Sarberg, Anders: *See*—
Olenfalk, Bengt; Witt, Goran; and Sarberg, Anders, 4,671,087, Cl. 70-283.000.
Sarcem S.A.: *See*—
Bonello, Philippe, 4,636,096, Cl. 384-243.000.
Bonello, Philippe; and Jeanmonod, Maurice, 4,650,467, Cl. 604-95.000.
Bonello, Philippe, 4,674,106, Cl. 377-82.000.
Sarcia, Joseph: *See*—
Rostkowski, Teresa; Zernik, Hava V.; Sarcia, Joseph; and Cwiej, Richard L., 4,672,190, Cl. 250-202.000.
Sarcos, Inc.: *See*—
Jacobsen, Stephen C., 4,642,504, Cl. 310-308.000.
Sardelis, Kosmas: *See*—
Barrat, Christian R.; Busch, Alfred; and Sardelis, Kosmas, 4,639,321, Cl. 252-8.800.
Sardella, Louis M., to Wm. C. Staley Machinery Corporation. Intermittently protruding feeder for paperboard blanks. 4,681,311, 7-21-87, Cl. 271-11.000.
Sardella, Louis M.; West, John B.; Harrison, John R.; and Parr, Dennis J., to Ward Machinery Company, The. Die mounting apparatus. 4,683,822, 8-4-87, Cl. 101-382.0MV.
Sardi, William F.: *See*—
Herrick, Robert S.; and Sardi, William F., 4,660,546, Cl. 128-1.00R.
Sare, Ian R.; Henderson, Ian D.; Heijkoop, Teunis; Bosworth, Michael R.; Aspin, Ronald E.; and Arnold, Brian K., to Commonwealth Scientific and Industrial Research Organization; and Vida-Weld Pty Limited, a part interest. Composite metal articles. 4,635,701, 1-13-87, Cl. 164-102.000.
Sarette, Patricia L.: *See*—
Sarette, Richard R.; and Sarette, Patricia L., 4,647,001, Cl. 249-205.000.
Sarette, Richard R.; and Sarette, Patricia L. Mold holding apparatus. 4,647,001, 3-3-87, Cl. 249-205.000.
Sarfati, Alberto G., to Sobrevin Societe de Brevets Industriels-Etablissement. Thread storage and feed device. 4,645,134, 2-24-87, Cl. 242-47.010.
Sarfati, Alberto G., to SOBREVIN Societe de brevets industriels-Etablissement. Thread delivery device. 4,708,299, 11-24-87, Cl. 242-47.010.
Sargeant, Nicholas B.: *See*—
Canton, David A.; Holloway, Brian L.; Sargeant, Nicholas B.; and Llewelyn, Roger J., 4,649,379, Cl. 340-750.000.
Sargeant, Nick B.: *See*—
Beaven, Paul A.; Canton, Dave A.; Sargeant, Nick B.; and Snagge, Tom H., 4,686,521, Cl. 340-703.000.
Sargeant, Paul R.: *See*—
Baker, Robin M.; Sargeant, Paul R.; Papper, Ernest G.; Oberoi, Bhusan K.; Smith, Frank A.; and Rae, Malcolm C., 4,695,418, Cl. 264-151.000.

Sargeaunt, Edward F.: *See*—
Koch, Hubert H.; and Sargeaunt, Edward F., 4,635,351, Cl. 29-598.000.
Sargent, Charles L.; Antos, John M.; Hoffman, John A.; and Cameron, John T., to Thetford Corporation. Portable toilet holding tank spout 4,641,383, 2-10-87, Cl. 4-323.000.
Sargent Clement D., to Theracom Corporation. Support cushion 4,675,930, 6-30-87, Cl. 5-458.000.
Sargent & Greenleaf, Inc.: *See*—
Evans, Walter R., 4,651,546, Cl. 70-366.000.
Krivec, Bert; Murphree, Gary R.; and Evans, Walter R., 4,643,010, Cl. 70-272.000.
Sargent Oil Well Equipment Company of Dover Resources, Incorporated: *See*—
Yates, Kenneth H., 4,695,779, Cl. 318-484.000.
Sargent, Thomas A.: *See*—
Craine, Eric R.; Forbes, David; Sargent, Thomas A.; and Scott, John S., 4,634,882, Cl. 250-578.000.
Sargent, Thornton W., III; Shulgin, Alexander T.; and Mathis, Chester A., to University of California, The Regents of the. Rapid brain scanning radiopharmaceutical. 4,647,446, 3-3-87, Cl. 424-1.100.
Sargent-Welch Scientific Company: *See*—
Osterstrom, Gordon E., 4,674,952, Cl. 415-170.00R.
Sarginger, Francis E.: *See*—
Evans, Alfred J.; and Sarginger, Francis E., 4,683,700, Cl. 53-138.00R.
Sarh, Branko, to Messerschmitt-Bolkow-Blohm GmbH. Structural component having a curved wall and apparatus for making such structural component. 4,633,632, 1-6-87, Cl. 52-245.000.
Sari, Eric T., to ETS Energy Technology Systems Inc. System for the treatment of edge supported substrates. 4,643,129, 2-17-87, Cl. 118-641.000.
Sari, Eric T., to ETS Energy Technology Systems Inc. System for the treatment of edge supported substrates. 4,672,914, 6-16-87, Cl. 118-641.000.
Sari, Hikmet; and Desperben, Lydie, to U.S. Philips Corporation. Arrangement for receiving digital data comprising an arrangement for adaptive timing recovery. 4,669,092, 5-26-87, Cl. 375-14.000.
Sari, Hikmet: *See*—
Desperben, Lydie; Sari, Hikmet; and Moridi, Said, 4,687,999, Cl. 329-109.000.
Sarich, Nancy J.: *See*—
Frost, John R.; Sarich, Nancy J.; Ruff, John; and Hammond, John E., 4,652,458, Cl. 426-573.000.
Frost, John R.; Sarich, Nancy J.; Schenz, Timothy W.; and Glatz, Alfred C., 4,701,337, Cl. 426-548.000.
Sarin, Vinod: *See*—
Bhat, Deepak G.; Woerner, Paul F.; and Sarin, Vinod, 4,670,024, Cl. 51-295.000.
Sarin, Vinod K.; and Hintermann, Hans E., to GTE Laboratories Incorporated. Composite coatings on cemented carbide substrates. 4,701,384, 10-20-87, Cl. 428-688.000.
Sarin, Vinod K.; and Hintermann, Hans E., to GTE Laboratories Incorporated. Composite coatings on ceramic substrates. 4,702,970, 10-27-87, Cl. 428-688.000.
Sarin, Vinod K.: *See*—
Baldoni, J. Gary, II; Buljan, Sergej-Tomislav; and Sarin, Vinod K., 4,710,425, Cl. 428-328.000.
Buljan, Sergei-Tomislav V.; Lingertat, Helmut; Baldoni, J. Gary, and Sarin, Vinod K., 4,698,266, Cl. 428-457.000.
Buljan, Sergei-Tomislav V.; Lingertat, Helmut; Baldoni, J. Gary, II; and Sarin, Vinod K., 4,708,037, Cl. 82-1.00C.
Saringer, John H., to Toronto Medical Corporation. Device for imparting continuous passive motion to leg joints. 4,637,379, 1-20-87, Cl. 128-25.00R.
Saringer, John H., to Toronto Medical Corp. Device for imparting continuous passive motion to human joints. 4,665,900, 5-19-87, Cl. 128-26.000.
Sarka, Benjamin, Jr.: *See*—
Goss, Larry P.; Grosjean, Dennis F.; Sarka, Benjamin, Jr.; Kizirnis, Sigmund W.; and Ganguly, Biswa N., 4,655,608, Cl. 374-119.000.
Sarkis S.A.: *See*—
Moraly, Paul, 4,640,371, Cl. 175-61.000.
Sarkki, Juha: *See*—
Engstrom, Folke; and Sarkki, Juha, 4,672,918, Cl. 122-4.00D.
Sarkozy, Peter: *See*—
Perjes, Istvan; Szporny, Laszlo; Selmeczi, Andras; Vereczkey, Laszlo; Klebovich, Imre; Toth, Edit; Hajos, Gyorgy; Torley, Jozsef; Simon, Ferenc; Sarkozy, Peter; and Misley, Attila, 4,659,712, Cl. 514-249.000.
Sarl Logilift: *See*—
Evin, Jean, 4,700,811, Cl. 187-116.000.
Sarma, Kanak C.: *See*—
Pan, David S.; Sarma, Kanak C.; Halfacre, Mark A.; Owens, Alexander H.; and Rosier, Brian K., 4,706,102, Cl. 357-23.500.
Sarngadharan, Mangalasseril G.: *See*—
Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan, Mangalasseril G., 4,708,818, Cl. 435-5.000.
Sarnoff, Stanley J., to Survival Technology, Inc. Absorption enhancing agents. 4,656,034, 4-7-87, Cl. 424-94.000.
Sarnoff, Stanley J., to Survival Technology, Inc. Method and apparatus for initiating reperfusion treatment by an unattended individual undergoing heart attack symptoms. 4,658,830, 4-21-87, Cl. 128-696.000.
Sarnoff, Stanley J., to Survival Technology, Inc. t-PA composition capable of being absorbed into the blood stream and method of administration. 4,661,469, 4-28-87, Cl. 514-2.000.
Sarnoff, Stanley J.; Tarello, William R.; Lopez, Claudio; and Karcher, Daniel W., to Survival Technology, Inc. Automatic medicament ingredient mixing and injecting apparatus. 4,689,042, 8-25-87, Cl. 604-89.000.
Saros, Stephen: *See*—
Cassaday, Michael M.; Castellani, Leon; and Saros, Stephen, 4,669,756, Cl. 285-24.000.
Saroul, Jacques: *See*—
Morille, Robert; and Saroul, Jacques, 4,642,560, Cl. 324-73.0PC.
Saroun, Pavel: *See*—
Krejcir, Oldrich; Zajic, Bohuslav; and Saroun, Pavel, 4,706,923, Cl. 248-638.000.
Sarrabayrouse, Gerard: *See*—
Owen, Alan E.; Sarrabayrouse, Gerard; LeComber, Peter G.; and Spear, Walter E., 4,684,972, Cl. 357-59.000.
Sarrantonio, August C., to Grumman Aerospace Corporation. Aircraft launcher and retriever. 4,678,141, 7-7-87, Cl. 244.2.000.
Sarrat, Rolland; and Verges, Jose, to Societe Nationale Industrielle et Aerospatiale. Device for indicating the quantity of a liquid in a reservoir and reservoir provded with such a device. 4,676,102, 6-30-87, Cl. 73-334.000.
Sarrazin, Jean-Louis. Telescopic structure intended to be used as shelter for sport surface area, culture and the like. 4,674,241, 6-23-87, Cl. 52-67.000.
Sarrazin, Yvon; and Smolens, Harry D., to Aster Group, Inc. Papermakers flat woven fabric. 4,695,498, 9-22-87, Cl. 428-121.000.
Sarson, Charles R., to Tuthill Corporation. Connector assembly. 4,676,269, 6-30-87, Cl. 137-614.060.
Sarssi, Pekka: *See*—
Mann, Yale; and Sarssi, Pekka, 4,691,801, Cl. 180-287.000.
Sarstedt, Walter, to Walter Sarstedt Kunststoff-Spritzgusswerk. Blood sedimentation apparatus. 4,648,265, 3-10-87, Cl. 73-61.400.
Sarstedt, Walter; and Korf, Dieter, to Walter Sarstedt Kunststoff-Spritzgusswerk. Blood storage device. 4,687,479, 8-18-87, Cl. 604-403.000.
Sarton, Francois; and Barriuso, Jean-Pierre, to Legrand. Cable marker device. 4,649,658, 3-17-87, Cl. 40-316.000.
Sarton, Francois; and Roby, Gerard, to Legrand. Fastening device for attaching an object to a support. 4,697,774, 10-6-87, Cl. 248-221.400.
Sartoni, Massimo, to Sasib S.p.A. Cut tobacco distributing device for cigarette making machines. 4,657,031, 4-14-87, Cl. 131-109.100.
Sartor, Leo, to Caber Italia S.p.A. Ski boot with self-powered ski boot control devices. 4,697,360, 10-6-87, Cl. 36-2.600.
Sartor, Leo: *See*—
Olivieri, Icaro; and Sartor, Leo, 4,685,226, Cl. 36-120.000.
Sartor, Mariano; Baggio, Giorgio; and Baratto, Mirko, to Nordica S.p.A. Ski boot incorporating a flex control device. 4,667,424, 5-26-87, Cl. 36-120.000.
Sartor, Mariano, to Nordica S.p.A. Ski boot incorporating an inclination adjustment device. 4,669,203, 6-2-87, Cl. 36-120.000.
Sartor, Mariano, to Nordica S.p.A. Ski boot with a mechanism for securing a foot instep and heel. 4,698,922, 10-13-87, Cl. 36-119.000.
Sartorelli, Alan C.; and Shyam, Krishnamurthy, to Yale University. N,N'-bis(sulfonyl)hydrazines having antineoplastic activity. 4,684,747, 8-4-87, Cl. 564-081.000.
Sartori, Mario: *See*—
Giorgetta, Valerio; Poletta, Vanni; Sartori, Mario; and Siligoni, Marco, 4,673,830, Cl. 307-297.000.
Salerno, Franco; and Sartori, Mario, 4,654,578, Cl. 323-313.000.
Sartorio, Franco, to Prima Industrie, S.p.A. Process and apparatus for precision folding of sheet metal. 4,706,491, 11-17-87, Cl. 72-461.000.
Sartorio, Franco: *See*—
Delle Piane, Alberto; Sartorio, Franco; Cantello, Maichi, and Ghiringhello, Guglielmo, 4,682,002, Cl. 219-121.0LD.
Sartorio, Sergio. Process for the manufacture of elements in the form of insulated prepacked blocks operating as disposal caisson for receiving the load bearing mixtures and producing inner ducts, such as seats of services, in building erection. 4,634,359, 1-6-87, Cl. 425-89.000.
Sartorius GmbH: *See*—
Knothe, Erich; Melcher, Franz-Josef; and Oldendorf, Christian, 4,645,021, Cl. 177-165.000.
Knothe, Erich; Melcher, Franz-Josef; Ober, Jurgen; Berg, Christoph; Dardat, Klaus; Bierich, Eduard; and Maaz, Gunther, 4,656,599, Cl. 364-567.000.
Knothe, Erich; and Kohne, Hans-Heinrich, 4,664,207, Cl. 177-181.000.
Knothe, Erich; Melcher, Franz-Josef; Maaz, Gunther; and Handwerk, Volker, 4,666,007, Cl. 177-245.000.
Knothe, Erich; Melcher, Franz-Josef; and Oldendorf, Christian, 4,685,525, Cl. 177-25.000.
Melcher, Franz-Josef; Maaz, Gunther; Bierich, Eduard; Stadler, Eberhard; and Berg, Christoph, 4,653,600, Cl. 177-229.000.
Nodes, Rudolf; and Hoffmann, Jurgen, 4,678,578, Cl. 210-445.000.
Oldendorf, Christian; Melcher, Franz-Josef; and Knothe, Erich, 4,650,014, Cl. 177-177.000.
Oldendorf, Christian; Melcher, Franz-Josef; and Knothe, Erich, 4,688,898, Cl. 350-336.000.
Reulecke, Fritz; and Pradel, Gunter, 4,652,367, Cl. 210-94.000.
Sarugaku, Toshio; Motoe, Hisafumi; Tokuhara, Masaharu; and Hongu, Masayuki, to Sony Corporation. Picture-in-picture television receivers, 4,673,983, 6-16-87, Cl. 358-183.000.

Saruhashi, Kazuo; Ara, Masato; Suzuki, Takanori; Saito, Gunji; and Kojima, Atsushi, to Honda Giken Kogyo Kabushiki Kaisha. Riding type mower. 4,679,382, 7-14-87, Cl. 56-10.100.

Saruta, Sadayoshi, to Denki Onkyo Company Limited. Deflection yoke having a function for adjusting deflection field. 4,636,693, 1-13-87, Cl. 315-368.000.

Saruwatari, Hidetoshi: *See*—
Sasaki, Kiichi; Saruwatari, Hidetoshi; Higuchi, Kazuo; Okuhara, Hisakazu; and Tabata, Hiroshi, 4,650,215, Cl. 280-808.000.

Saruwatari, Kazuyuki: *See*—
Kamiwada, Minoru; Saruwatari, Kazuyuki; Shimada, Kazuaki; and Higashizima, Harumi, 4,680,116, Cl. 210-282.000.

Sarvanne, Hannu, to Oy E. Sarlin AB. Impeller for a pump, especially a vortex pump. 4,676,718, 6-30-87, Cl. 415-213.00A.

Sarvary, Andras: *See*—
Berentey, Gyorgy; Sarvary, Andras; Feczko, Jozsef; and Pasztor, Pal, 4,651,724, Cl. 128-92.0YP.

Sarvis, Daniel P., to American Floor Covering Company; and American Awning & Shade Shop, Inc. Method for assembling an awning. 4,665,671, 5-19-87, Cl. 52-222.000.

Sarwinski, Raymond E.; Purcell, John R.; Parker, Judson W.; and Burnett, Sibley C., to GA Technologies Inc. Cryogenic magnet systems. 4,680,936, 7-21-87, Cl. 62-45.000.

Sasa, Hiroyuki, to Olympus Optical Co., Ltd. Cleaning apparatus for endoscope. 4,637,378, 1-20-87, Cl. 128-4.000.

Sasa, Hiroyuki, to Olympus Optical Co., Ltd. Device for cleaning channels of an endoscope. 4,667,691, 5-26-87, Cl. 134-169.00C.

Sasada, Taizo: *See*—
Yasuda, Syuhei; Ii, Hiroshi; and Sasada, Taizo, 4,700,241, Cl. 360-51.000.

Sasada, Tetsuo; Sato, Takeshi; Urushidani, Haruo; Hisano, Katsukuni; Kaneko, Ryoichi; Ikeuchi, Kazuo; and Tsuji, Kunio, to Hitachi, Ltd. Turbine stage structure. 4,662,820, 5-5-87, Cl. 415-170.00R.

Sasagaki, Nobuaki; and Fujii, Hidekatsu, to Nippon Kogaku K. K. Focusing screen mounting device in a camera. 4,693,577, 9-15-87, Cl. 354-155.000.

Sasagawa, Katsuyoshi; Nishihara, Kunio; Ozawa, Hiroshi; and Imai, Masao, to Mitsui Toatsu Chemicals, Incorporated. Optical recording method and media therefor. 4,707,425, 11-17-87, Cl. 430-21.000.

Sasagawa, Katsuyoshi: *See*—
Ozawa, Hiroshi; Hosono, Yoichi; Hirose, Sumio; Sasagawa, Katsuyoshi; and Imai, Masao, 4,707,430, Cl. 430-270.000.

Sasagawa, Masaru: *See*—
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,658,626, Cl. 72-405.000.
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi, Namiki, Akira; and Sasagawa, Masaru, 4,682,685, Cl. 198-621.000.

Sasagawa, Pamela K.: *See*—
Shearer, Michael A.; Sasagawa, Pamela K.; and Hein, Ronald H., 4,656,254, Cl. 530-393.000.

Sasage, Tsutomu; Matsumoto, Minoru; and Yoshikawa, Toru, to NEC Corporation. Sheet convey device. 4,705,266, 11-10-87, Cl. 271-264.000.

Sasaguri, Nobuya: *See*—
Minami, Takao; Nagano, Hiroo; Yamanaka, Kazuo; Okada, Yasutaka; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; and Sasaguri, Nobuya, 4,715,909, Cl. 148-410.000.
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yaautaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.

Sasahara, Akira: *See*—
Shino, Satoshi; Sasahara, Akira; Ishikawa, Kiyoshi; Shibasaki, Shigeru; and Takashina, Shinji, 4,660,820, Cl. 271-9.000.

Sasahara, Hitoshi: *See*—
Ota, Masanori; and Sasahara, Hitoshi, 4,715,983, Cl. 252-186.350.

Sasai, Yoichi; and Kubo, Minoru, to Matsushita Electric Industrial Co., Ltd. Liquid phase epitaxial growth method. ' 702,781, 10-27-87, Cl. 437-129.000.

Sasajima, Isao: *See*—
Matsuda, Osamu; and Sasajima, Isao, 4,668,850, Cl. 219-10.570.

Sasakat Pty. Limited: *See*—
Adcock, John T., 4,663,805, Cl. 17-48.000.

Sasakawa, Atsushi: *See*—
Yamauchi, Takashi; Hayashi, Shoichiro; and Sasakawa, Atsushi, 4,681,978, Cl. 562-413.000.

Sasakawa, Eishiro: *See*—
Kinoshita, Tomohiro; Tanabe, Seiichi; and Sasakawa, Eishiro, 4,683,177, Cl. 429-26.000.

Sasakawa, Hirotaka, to Casio Computer Co., Ltd. Tape loading device. 4,697,214, 9-29-87, Cl. 360-85.000.

Sasaki, Akio: *See*—
Makino, Hiroshi; and Sasaki, Akio, 4,690,119, Cl. 123-571.000.

Sasaki, Akira, to Mitsubishi Denki Kabushiki Kaisha. Reformer reaction control apparatus for a fuel cell. 4,642,273, 2-10-87, Cl. 429-22.000.

Sasaki, Akira: *See*—
Hakoyama, Akiyoshi; Sasaki, Akira; and Fukasawa, Nobuaki, 4,652,155, Cl. 400-120.000.
Hakoyama, Akiyoshi; Saitoh, Shouji; and Sasaki, Akira, 4,672,391, Cl. 346-76.0PH.
Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryooichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.

Sasaki, Atsushi: *See*—
Hatano, Hirofumi; Yamazaki, Masayasu; Sasaki, Atsushi; Mikami, Keigo, deceased; Taoda, Kiyomichi; and Murakami, Mitsuharu, 4,669,976, Cl. 432-58.000.

Sasaki, Chikara: *See*—
Kuga, Hisashi; and Sasaki, Chikara, 4,644,150, Cl. 250-223.00R.

Sasaki, Eiichi, to Ricoh Company, Ltd. Thermal transfer printing method. 4,660,051, 4-21-87, Cl. 346-76.0PH.

Sasaki, Eiichi; and Inoue, Takashi, to Ricoh Company, Ltd. Thermal head driving device. 4,675,697, 6-23-87, Cl. 346-76.0PH.

Sasaki, Eiichi: *See*—
Nakamura, Ichiro; Kobayashi, Satoshi; and Sasaki, Eiichi, 4,715,478, Cl. 187-111.000.

Sasaki Glass Co., Ltd.: *See*—
Minakawa, Takao; Shiono, Shigeo; and Nishihashi, Junichi, 4,682,003, Cl. 219-121.0LN.

Sasaki, Haruyoshi: *See*—
Sasaki, Makoto; Sasaki, Haruyoshi; and Sato, Hisato, 4,673,756, Cl. 558-416.000.

Sasaki, Hiroaki: *See*—
Hasegawa, Kazuo; Sasaki, Hiroaki; and Nakase, Kohji, 4,689,446, Cl. 178-18.000.
Nakase, Koji; and Sasaki, Hiroaki, 4,698,490, Cl. 235-472.000.

Sasaki, Hiromu: *See*—
Anzai, Shunju; Sasaki, Hiromu; Kunikawa, Norihide; and Ohgita, Kazuyuki, 4,713,550, Cl. 250-560.000.

Sasaki, Hironaka: *See*—
Okamoto, Masayoshi; Suzuki, Katsuhisa; Hoshino, Ryoichi; and Sasaki, Hironaka, 4,712,612, Cl. 165-146.000.

Sasaki, Hiroshi, to Kabushiki Kaisha Toshiba. Ultrasonic diagnostic apparatus using non-linear parameters of an organ. 4,679,565, 7-14-87, Cl. 128-660.000.

Sasaki, Hiroshi, to Kabushiki Kaisha Toshiba. Ultrasonic imaging apparatus. 4,682,497, 7-28-87, Cl. 73-602.000.

Sasaki, Hiroshi: *See*—
Fujimoto, Yoriaki; Sasaki, Hiroshi; and Karimata, Yukihiro, 4,660,517, Cl. 123-210.000.

Sasaki, Hiroyuki; and Hanzawa, Kohtaro, to Casio Computer Co., Ltd. Waveform normalizer for electronic musical instrument. 4,691,608, 9-8-87, Cl. 84-1.010.

Sasaki, Hiroyuki: *See*—
Hanzawa, Kohtaro; Morikawa, Shigenori; Morokuma, Hiroshi; and Sasaki, Hiroyuki, 4,667,556, Cl. 84-1.010.
Morikawa, Shigenori; Hanzawa, Kohtaro; Sasaki, Hiroyuki; and Morokuma, Hiroshi, 4,681,008, Cl. 84-1.280.
Morikawa, Shigenori; and Sasaki, Hiroyuki, 4,700,604, Cl. 84-1.030.
Saotome, Kaoru; Sasaki, Hiroyuki; and Kanbara, Katsuhiro, 4,705,244, Cl. 248-68.100.

Sasaki, Hisami: *See*—
Nakamura, Kazuhito; Sasaki, Hisami; Chigira, Masayoshi; and Yokoi, Kenji, 4,678,590, Cl. 252-8.800.

Sasaki, Hisashi: *See*—
Fujii, Mituru; Dobashi, Tomoyuki; Sasaki, Hisashi; Imanishi, Masamichi; and Ueda, Toshihiro, 4,674,654, Cl. 222-39.000.

Sasaki, Hitoshi; and Igota, Shoji, to Ajinomoto Company Incorporated. Body for a pressure-resistant vessel. 4,642,252, 2-10-87, Cl. 428-35.000.

Sasaki, Hitoshi; and Igota, Shoji, to Ajinomoto Co., Inc. Transparent plastic can. 4,684,553, 8-4-87, Cl. 428-35.000.

Sasaki, Isao; Mori, Hiroshi; and Fujimoto, Masaharu, to Mitsubishi Rayon Co., Ltd.; and Research Association for Synthetic Fiber Tech. Process for the production of polyester. 4,647,650, 3-3-87, Cl. 528-274.000.

Sasaki, Isao; and Mukai, Nobuhiro, to Mitsubishi Rayon Co., Ltd. Compositions for artificial marbles and process for producing artificial marbles therefrom. 4,678,819, 7-7-87, Cl. 523-171.000.

Sasaki, Isao; and Mori, Hiroshi, to Mitsubishi Rayon Co., Ltd. Polymerization process for polyester. 4,687,811, 8-18-87, Cl. 525-100.000.

Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Kushi, Kenji, to Mitsubishi Rayon Co., Ltd. Heat-resistant resin molded article with excellent abrasion resistance and process for producing the same. 4,689,243, 8-25-87, Cl. 427-54.100.

Sasaki, Isao; Yanagase, Akira; Kawachi, Yasunori; Mayuzumi, Tetsuya; Oba, Toshio; and Okada, Fumio, to Mitsubishi Rayon Co., Ltd.; and Shin-Etsu Chemical Co., Ltd. Impact-resistant thermoplastic polyorganosiloxane-based graft copolymer and process for producing same. 4,690,986, 9-1-87, Cl. 525-479.000.

Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Yamamoto, Takashi, to Mitsubishi Rayon Company Ltd. Light-transmitting fiber. 4,693,553, 9-15-87, Cl. 350-96.340.

Sasaki, Isao: *See*—
Morizumi, Hirokazu; Horiguchi, Akira; and Sasaki, Isao, 4,707,403, Cl. 428-328.000.

Sasaki, Issei, to Sasaki, Issei; and Seiko Instruments & Electronics Ltd., a part interest. Liquid refractometer. 4,640,615, 2-3-87, Cl. 356-130.000.

Sasaki, Itsuo: *See*—
Matsuo, Kenji; Sasaki, Itsuo; Suzuki, Hiroaki; and Kunieda, Mitsuyuki, 4,716,308, Cl. 307-303.000.

Sasaki, Kan; Takimura, Keisuke; Katayama, Nobuaki; and Tsuchiya, Fumitomo, to Toyota Jidosha Kabushiki Kaisha. Four-wheel vehicle drive system. 4,645,029, 2-24-87, Cl. 180-249.000.

Sasaki, Kan; Takimura, Keisuke; and Katayama, Nobuaki, to Toyota Jidosha Kabushiki Kaisha. Power transfer device for four-wheel drive. 4,697,470, 10-6-87, Cl. 74-701.000.

Sasaki, Katsuyuki: *See*—
Akiyama, Teruo; Sasaki, Katsuyuki; and Saigo, Takaichi, 4,637,781, Cl. 417-216.000.

Sasaki, Katusmi: *See*—
Mizobuchi, Shotaro; Kimura, Yoshikazu; and Sasaki, Katusmi, 4,699,525, Cl. 384-369.000.

Sasaki, Kazuko, to Figaro Engineering Inc.; and Mazda Motor Corporation. Sensor. 4,658,632, 4-21-87, Cl. 73-23.000.

Sasaki, Kazuko, to Figaro Engineering Inc. Exhaust gas sensor and process for producing same. 4,701,739, 10-20-87, Cl. 338-34.000.

Sasaki, Kazuya: *See*—
Naito, Takanobu; Yokoyama, Masaaki; Sasaki, Kazuya; Yamamoto, Makoto; and Amemiya, Kouji, 4,691,014, Cl. 540-227.000.

Sasaki, Kazuyuki: *See*—
Yoshino, Hisakazu; Nishimura, Shinichi; and Sasaki, Kazuyuki, 4,711,540, Cl. 351-214.000.
Yoshino, Hisakazu; Nishimura, Shinichi; and Sasaki, Kazuyuki, 4,711,541, Cl. 351-214.000.

Sasaki, Ken-ichi: *See*—
Pacey, Gilbert E., and Sasaki, Ken-ichi, 4,659,815, Cl. 540-467.000.

Sasaki, Kiichi; and Takashi, Iinuro, to Honda Giken Kogyo Kabushiki Kaisha. Pivot structure for seat belt buckle. 4,638,534, 1-27-87, Cl. 24-683.000.

Sasaki, Kiichi; Tabata, Hiroshi; Okuhara, Hisakazu; and Higuchi, Kazuo, to Honda Giken Kogyo Kabushiki Kaisha. Bendable reach arm for a seat belt. 4,643,449, 2-17-87, Cl. 280-808.000.

Sasaki, Kiichi; Saruwatari, Hidetoshi; Higuchi, Kazuo; Okuhara, Hisakazu; and Tabata, Hiroshi, to Honda Giken Kogyo Kabushiki Kaisha. Seat belt forwarding device. 4,650,215, 3-17-87, Cl. 280-808.000.

Sasaki, Kiichi; Tabata, Hiroshi; Okuhara, Hisakazu; and Higuchi, Kazuo, to Honda Giken Kogyo Kabushiki Kaisha. Seat belt device for a vehicle. 4,697,827, 10-6-87, Cl. 280-808.000.

Sasaki, Kiichi: *See*—
Higuchi, Kazuo; Okuhara, Hisakazu; and Sasaki, Kiichi, 4,635,963, Cl. 280-801.000.
Higuchi, Kazuo; Sugama, Takayuki; Okuhara, Hisakazu; and Sasaki, Kiichi, 4,682,789, Cl. 280-801.000.

Sasaki, Kinji: *See*—
Ohta, Hiroshi; and Sasaki, Kinji, 4,650,713, Cl. 428-328.000.

Sasaki, Koji: *See*—
Watanabe, Toshinori; Masuishi, Tetsuya; Sasaki, Koji; Haruna, Koichi; and Horie, Noboru, 4,651,284, Cl. 364-491.000.
Watanabe, Toshinori; Sasaki, Koji; Yasunobu, Chizuko; Iizuka, Yumiko; Nagai, Yoshiaki; Yamanaka, Toshiro; Yamakoshi, Mineru; and Tanaka, Takashi, 4,700,317, Cl. 364-488.000.

Sasaki, Kouichi; Tsudaka, Hideaki; Namba, Satoshi; Abe, Yuji; and Yoshinaga, Shinsuke, to Mita Industrial Co., Ltd. Unit-type copying machine. 4,647,178, 3-3-87, Cl. 355-3.00R.

Sasaki, Kouji; and Koizumi, Junji, to Toyoda Gosei Co., Ltd. Polyamide-rubber blend composition. 4,661,563, 4-28-87, Cl. 525-179.000.

Sasaki, Kouji: *See*—
Koizumi, Junji; Sasaki, Kouji; and Naito, Junichiro, 4,707,528, Cl. 525-432.000.

Sasaki, Kunihiko; Kodera, Masao; and Kuno, Akira, to Nippon Soken, Inc.; and Nippondenso Co., Ltd. Vehicle approach sensing apparatus. 4,694,296, 9-15-87, Cl. 340-904.000.

Sasaki, Kunihiko; Kodera, Masao; Huzino, Seizi; and Tanaka, Takeshi, to Nippon Soken, Inc. Microwave probe and rotary body detecting apparatus using the same. 4,700,127, 10-13-87, Cl. 324-58.50C.

Sasaki, Kunihiko: *See*—
Kodera, Masao; and Sasaki, Kunihiko, 4,667,195, Cl. 340-901.000.
Toyama, Kenchiro; Kodera, Masao; and Sasaki, Kunihiko, 4,636,997, Cl. 367-140.000.

Sasaki, Lawrence H.: *See*—
Tsiakas, Nicholas; Sunter, Stephen K.; Wellard, Ronald G.; and Sasaki, Lawrence H., 4,646,289, Cl. 370-76.000.

Sasaki, Makoto; Sasaki, Haruyoshi; and Sato, Hisato, to Dainippon Ink and Chemicals, Inc. Nematic liquid crystalline compounds. 4,673,756, 6-16-87, Cl. 558-416.000.

Sasaki, Makoto; Yamakawa, Masaki; Hirose, Toshifumi; and Isayama, Katsuhiko, to Nippon Oil Co., Ltd.; and Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Tackifier composition. 4,707,526, 11-17-87, Cl. 525-404.000.

Sasaki, Makoto; Yoshida, Jun; Shimizu, Yoshishige; Akazawa, Kiyoshi; Kishita, Eiji; and Hirata, Kaoru, to Mitsubishi Rayon Company Ltd. Fragrant fiber. 4,713,291, 12-15-87, Cl. 428-373.000.

Sasaki, Makoto: *See*—
Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, 4,705,870, Cl. 549-369.000.
Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, 4,705,905, Cl. 585-25.000.
Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, 4,713,468, Cl. 558-411.000.

Sasaki, Masahiko: *See*—
Kato, Shinichi; Sasaki, Masahiko; Kato, Tadashi; Kanno, Masahide; Takahashi, Yutaka; and Saito, Katsuyuki, 4,706,118, Cl. 358-98.000.
Tamura, Tetsuji; and Sasaki, Masahiko, 4,653,610, Cl. 184-6.120.

Sasaki, Masahiro: *See*—
Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, 4,701,659, Cl. 310-334.000.
Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, 4,704,774, Cl. 29-25.350.

Sasaki, Masaki: *See*—
Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiraga; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjiro; Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.

Sasaki, Masanori: *See*—
Watabe, Seiji; Yokoyama, Isao; Sasaki, Masanori; Toyoshima, Yotaro; Takahashi, Sumio; and Maeda, Tsutomu, 4,714,908, Cl. 335-212.000.

Sasaki, Masao; Kadowaki, Takashi; and Onodera, Kaoru, to Konishiroku Photo Industry Co., Ltd. Silver halide photographic light-sensitive material. 4,692,399, 9-8-87, Cl. 420-507.000.

Sasaki, Masaomi, to Ricoh Company, Ltd. Stilbene derivatives, distyryl derivatives and electrophotographic photoconductor comprising at least one of the derivatives. 4,709,096, 11-24-87, Cl. 564-374.000.

Sasaki, Masaomi: *See*—
Yoshikawa, Masao; Kojima, Akio; Suzuki, Tetsuro; and Sasaki, Masaomi, 4,672,149, Cl. 136-263.000.

Sasaki, Michiaki, to Nissan Motor Company, Limited. Fuel-vapor recovery system. 4,671,071, 6-9-87, Cl. 62-54.000.

Sasak , Michiaki; and Ohno, Junya, to Nissan Motor Co., Ltd. Fuel tank vert system. 4,714,171, 12-22-87, Cl. 220-85.0VR.

Sasaki, Mikio: *See*—
Fujita, Masaaki; Sasaki, Mikio; Goto, Teruo; and Yamaguchi, Namio, 4,644,349, Cl. 340-825.250.

Sasaki, Minoru: *See*—
Imai, Hideki; and Sasaki, Minoru, 4,633,884, Cl. 128-696.000.

Sasaki, Mitsuru; and Oguri, Yukio, to Sumitomo Chemical Company, Limited. Aluminum phosphinate-amine adducts, and their production and use. 4,701,209, 10-20-87, Cl. 71-97.000.

Sasaki, Mitsuru: *See*—
Takahashi, Junya; Sasaki, Mitsuru; Noguchi, Hiroshi; and Kato, Toshiro, 4,686,232, Cl. 514-365.000.
Tomioka, Hiroki; Ooishi, Tadashi; Takahashi, Junya; Sasaki, Mitsuru; and Hirata, Naonori, 4,709,052, Cl. 548-548.000.

Sasaki, Naoto, to Nissan Motor Co., Ltd. Static pressure gas bearing apparatus for turbocharger. 4,690,572, 9-1-87, Cl. 384-120.000.

Sasaki, Naoya; Kawauchi, Masataka; Fukudome, Yoshio; Takeda, Fumio; Suzuki, Yoichi; Mirubayashi, Toshio; and Utsumi, Itsunori, to Hitachi, Ltd. Sheets separating and feeding apparatus. 4,653,742, 3-31-87, Cl. 271-114.000.

Sasaki, Noboru, to France Bed Co., Ltd. Spring unit. 4,664,361, 5-12-87, Cl. 267-100.000.

Sasaki, Noboru; and Takahashi, Koji, to Fuji Photo Film Co., Ltd. Color photographic materials having red color saturation and improved discrimination of green colors. 4,705,744, 11-10-87, Cl. 430-505.000.

Sasaki, Noboru, to Fuji Photo Film Co., Ltd. Color photographic material. 4,707,436, 11-17-87, Cl. 430-504.000.

Sasaki, Noboru; Iwata, Yasuji; and Muka:, Teruo, to France Bed Co., Ltd. Apparatus for manufacturing spring units. 4,713,956, 12-22-87, Cl. 72-137.000.

Sasaki, Noboru: *See*—
Ichijima, Seiji; Sato, Shingo; Ono, Mitsunori; and Sasaki, Noboru, 4,652,516, Cl. 430-544.000.
Ichijima, Seiji; and Sasaki, Noboru, 4,698,297, Cl. 430-383.000.
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Sasaki, Nobuo, to Fujitsu Limited. Semiconductor device. 4,665,419, 5-12-87, Cl. 357-23.700.

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Sasaki, Nobuyoshi; Baba, Susumu; and Arai, Hisahiro, to M.C.I. Co., Ltd. Process for producing hollow cast article. 4,712,605, 12-15-87, Cl. 164-516.000.

Sasaki, Osamu: *See*—
Watanabe, Kazumasa; Ikeuchi, Satoru; Sasaki, Osamu; and Hirose, Naohiro, 4,647,520, Cl. 430-58.000.

Sasaki, Satoshi: *See*—
Suzuki, Migaku; Sasaki, Satoshi; Mitsuno, Takashi; and Inagaki, Hiroyuki, 4,687,477, Cl. 604-385.90A.

Sasaki, Seishi: *See*—
Muraoka, Hiroaki; Sasaki, Seishi; Takahashi, Ken; and Youda, Hiroshi, 4,700,252, Cl. 360-113.000.
Takahashi, Ken; Youda, Hiroshi; Sasaki, Seishi; and Kanai, Kenji, 4,654,739, Cl. 360-113.000.

Sasaki, Shigekuni: *See*—
Hasuda, Yoshinori; Sasaki, Shigekuni; and Ichino, Toshihiro, 4,666,760, Cl. 428-215.000.
Maruno, Tooru; Nakamura, Kouzaburou; and Sasaki, Shigekuni, 4,637,939, Cl. 427-162.000.

Sasaki, Shigeo: *See*—
Sumida, Takashi; Sasaki, Shigeo; and Ketori, Takao, 4,643,304, Cl. 206-387.000.

Sasaki, Shigeru: *See*—
Kasuya, Katsuhiko; Sasaki, Shigeru; and Nagai, Toshiaki, 4,671,751, Cl. 418-201.000.
Sasaki, Shin; Nemoto, Tsuneo; Yamashina, Shuichi; and Uchida, Hiroyuki, to Sony Corporation. Magnetic tape cassette with door opening mechanism. 4,646,189, 2-24-87, Cl. 360-12.000.
Sasaki, Shin; and Makino, Masahiro, to Sony Corporation. Magnetic tape cassette with improved spring member. 4,663,688, 5-5-87, Cl. 360-132.000.
Sasaki, Shingo, to NGK Insulators, Ltd. Radial-type ceramic turbine rotor and a method for producing the same. 4,701,106, 10-20-87, Cl. 416-241.00B.
Sasaki, Shingo: *See*—
Matsuhisa, Tadaaki; and Sasaki, Shingo, 4,713,206, Cl. 264-328.200.
Sasaki, Shinichi: *See*—
Kubota, Atsushi; Taniishi, Shinnosuke; Sasaki, Shinichi; Kimura, Akiyoshi; and Koike, Michiro, 4,708,455, Cl. 355-3.00R.
Ogawa, Hiroshi; Miyazaki, Yasuyuki; Yoshida, Susumu; and Sasaki, Shinichi, 4,716,530, Cl. 364-424.000.
Sasaki, Shinji; Shimoyama, Yujiro; and Watanabe, Yoshinori, to Alps Electric Co., Ltd. Detent mechanism for sliding electric parts. 4,668,849, 5-26-87, Cl. 200-291.000.
Sasaki, Shinji; Shimoyama, Yujiro; and Watanabe, Yoshinori, to Alps Electric Co., Ltd. Detent mechanism for sliding electric parts. 4,710,600, 12-1-87, Cl. 200-291.000.
Sasaki, Shinji: *See*—
Fukuo, Koichi; and Sasaki, Shinji, 4,656,991, Cl. 123-572.000.
Sasaki, Shinkichi: *See*—
Mikamoto, Makoto; Sasaki, Shinkichi; Watanabe, Hiroyuki; and Miyazawa, Azuma, 4,665,453, Cl. 360-96.600.
Sasaki, Shiro: *See*—
Fukuta, Kinsho; and Sasaki, Shiro, 4,643,383, Cl. 248-396.000.
Tatematsu, Kazuhisa; Kondo, Tokuji; Sasaki, Shiro; and Kawamatsu, Koji, 4,666,208, Cl. 297-341.000.
Sasaki, Shizuo, to Toyota Jidosha Kabushiki Kaisha. Fuel evaporation rate control system for a direct fuel injection type internal combustion engine. 4,667,630, 5-26-87, Cl. 123-254.000.
Sasaki, Shoji, to Fuji Electric Co., Ltd. Time-interval signal generating apparatus. 4,634,985, 1-6-87, Cl. 328-129.100.
Sasaki, Shoji, to Toyota Jidosha Kabushiki Kaisha. Turbocharger with variable nozzle mechanism. 4,684,319, 8-4-87, Cl. 415-164.000.
Sasaki, Shoji, to Toyota Jidosha Kabushiki Kaisha. Device for supporting nozzle vanes of a turbocharger. 4,685,869, 8-11-87, Cl. 417-407.000.
Sasaki, Shoko: *See*—
Kume, Toyohiko; Tsuboi, Shinichi; Isono, Kunihiro; Sasaki, Shoko; and Hattori, Yumi, 4,675,331, Cl. 514-367.000.
Sasaki, Shuichi: *See*—
Kambe, Mitsuru; and Sasaki, Shuichi, 4,687,624, Cl. 376-264.000.
Sasaki, Shuji: *See*—
Nakamura, Tsuneaki; Kiyoshige, Tatsuo; and Sasaki, Shuji, 4,714,612, Cl. 424-85.000.
Sasaki, Sigeo: *See*—
Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao; and Fujita, Kazuhiro, 4,635,879, Cl. 242-198.000.
Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao; Fujita, Kazuhiro; and Ogiro, Kenji, 4,660,784, Cl. 242-198.000.
Sasaki, Soji: *See*—
Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakami, Kanji; Okada, Hisao; Sasaki, Soji; Inose, Shigeru; Suto, Mareo; and Uzuhashi, Hideo, 4,665,282, Cl. 178-18.000.
Sasaki, Susumu, to Fujitsu Limited. Time division communication system. 4,644,531, 2-17-87, Cl. 370-77.000.
Sasaki, Susumu, to Fujitsu Limited. Digital radio communication system. 4,683,566, 7-28-87, Cl. 370-100.000.
Sasaki, Susumu: *See*—
Fukuda, Eisuke; Takeda, Yukio; Daido, Yoshimasa; Nakamura, Hiroshi; Sasaki, Susumu; and Takenaka, Sadao, 4,665,532, Cl. 375-19.000.
Sasaki, Takao, to Fanuc Ltd. Device for preventing a collision between a work holder and a tool in numerical control for a turret punch press. 4,651,601, 3-24-87, Cl. 83-13.000.
Sasaki, Takao: *See*—
Shima, Atsushi; and Sasaki, Takao, 4,667,294, Cl. 364-474.000.
Sasaki, Takashi, to Canon Kabushiki Kaisha. Method of processing a color image signal. 4,636,844, 1-13-87, Cl. 358-80.000.
Sasaki, Takashi; and Matsunaga, Kazuhiro, to Canon Kabushiki Kaisha. Recorder. 4,651,223, 3-17-87, Cl. 358-284.000.
Sasaki, Takashi; Sakurada, Nobuaki; and Kawamura, Hideaki, to Canon Kabushiki Kaisha. Method for forming a color image. 4,682,186, 7-21-87, Cl. 346-140.00R.
Sasaki, Takashi; Sakurada, Nobuaki; Kawamura, Hideaki, and Moriyama, Jiro, to Canon Kabushiki Kaisha. Color image picture forming process and apparatus which improves the quality of the black portions of the picture. 4,682,216, 7-21-87, Cl. 358-79.000.
Sasaki, Takashi, to Canon Kabushiki Kaisha. Intermediate gradient image forming method. 4,714,964, 12-22-87, Cl. 358-298.000.
Sasaki, Takashi: *See*—
Kawamura, Hideaki; Sakurada, Nobuaki; and Sasaki, Takashi, 4,658,284, Cl. 358-11.000.
Kawamura, Hideaki; Sakurada, Nobuaki; and Sasaki, Takashi, 4,658,300, Cl. 358-280.000.
Kawamura, Hideaki; Sasaki, Takashi; and Sakurada, Nobuaki, 4,667,228, Cl. 358-80.000.
Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, 4,635,078, Cl. 346-140.00R.
Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, 4,639,747, Cl. 346-140.00R.
Sakurada, Nobuaki; Kawamura, Hideaki; and Sasaki, Takashi, 4,672,432, Cl. 358-75.000.
Sasaki, Takatomo: *See*—
Yoshida, Kunio; Yamanaka, Chiyoe; Sasaki, Takatomo; and Shimomura, Osamu, 4,670,117, Cl. 204-182.400.
Sasaki, Takayuki; and Arai, Masaaki, to Sony Corporation. Non-linear digital emphasis circuit. 4,668,988, 5-26-87, Cl. 358-166.000.
Sasaki, Takayuki; and Arai, Masaaki, to Sony Corporation. Signal generator using digital memory. 4,701,871, 10-20-87, Cl. 364-718.000.
Sasaki, Takeshi: *See*—
Enomoto, Yoshinori; Monma, Hideo; Ohta, Shunzo; and Sasaki, Takeshi, 4,703,483, Cl. 371-24.000.
Matsushima, Katsuaki; Fujioka, Yasuhiro; Sasaki, Takeshi; Fujine, Manabu; and Yamamoto, Kouji, 4,640,184, Cl. 98-2.150.
Sasaki, Teruo: *See*—
Tominaga, Ichiro; and Sasaki, Teruo, 4,687,205, Cl. 273-169.000.
Sasaki, Tetsuo: *See*—
Otake, Noboru; Seto, Haruo; Sasaki, Tetsuo; Sugita, Masanori; and Hiramoto, Shigeru, 4,649,135, Cl. 514-183.000.
Sasaki, Tomio; and Noguchi, Yukio, to Ricoh Company, Ltd. Device for sensing sheet transport condition. 4,641,272, 2-3-87, Cl. 364-559.000.
Sasaki, Torahiko; Tange, Kyoichi; Okawa, Masahiro; and Suzuki, Yoshihiro, to Toyota Jidosha Kabushiki Kaisha. Zinc-bromine battery. 4,663,251, 5-5-87, Cl. 429-29.000.
Sasaki, Torahiko; Tange, Kyoichi; Okawa, Masahiro; and Suzuki, Yoshihiro, to Toyota Jidosha Kabushiki Kaisha. Zinc-bromine battery. 4,677,039, 6-30-87, Cl. 429-14.000.
Sasaki, Torahiko; Sato, Kazuo; Ohkawa, Masahiro; Suzuki, Yoshihiro; Kubota, Masato; Nakao, Hatsuo; and Tange, Kyoichi, to Toyota Jidosha Kabushiki Kaisha. Solution circulation type metal-halogen battery. 4,696,870, 9-29-87, Cl. 429-14.000.
Sasaki, Toru: *See*—
Yarita, Ikuo; Kitahama, Masanori; and Sasaki, Toru, 4,703,641, Cl. 72-247.000.
Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizumi, Kiyoshi; Kakizaki, Kimio; Nakayama, Wataru; Daikoku, Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshihiko, to Hitachi Cable, Ltd.; and Hitachi, Ltd. Evaporating heat transfer wall. 4,678,029, 7-7-87, Cl. 165-133.000.
Sasaki, Toshi: *See*—
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, 4,653,163, Cl. 29-157.30R.
Sasaki, Toshiharu: *See*—
Urata, Yoshihito; Tatekawa, Masaichiro; and Sasaki, Toshiharu, 4,696,562, Cl. 355-3.00R.
Sasaki, Toshihiko; Sunayama, Yooji; Yoshida, Isao; and Endo, Masayuki, to Mitsubishi Denki Kabushiki Kaisha. Ozone generating apparatus. 4,696,800, 9-29-87, Cl. 422-186.180.
Sasaki, Toshiki: *See*—
Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; Sasaki, Toshiki; and Nishio, Yoshihiro, 4,640,887, Cl. 430-275.000.
Nakamura, Chiaki; Oe, Kouji; Muta, Tomonobu; and Sasaki, Toshiki, 4,684,601, Cl. 430-284.000.
Sasaki, Toshimi: *See*—
Haramaki, Takashi; Funamoto, Takao; Kokura, Satoshi; Inagaki, Masahisa; Jimbou, Ryutaro; Sasaki, Toshimi; and Nagayama, Kousei, 4,691,856, Cl. 228-194.000.
Sasaki, Toshio; Katao, Masaaki; Kawai, Kiyoshi; and Shiga, Akinobu, to Sumitomo Chemical Company, Limited. Catalyst and process for producing alpha-olefin polymers using the same. 4,672,050, 6-9-87, Cl. 502-116.000.
Sasaki, Toshio: *See*—
Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.
Shiga, Akinobu; Sasaki, Toshio; and Kojima, Junpei, 4,645,808, Cl. 526-119.000.
Tsushima, Noburu; Fuse, Masashi; Mimori, Teruo; Sasaki, Toshio; and Mukai, Tadashi, 4,673,878, Cl. 324-226.000.
Sasaki, Toshiro; Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; and Miyamoto, Shoji, to Hitachi, Ltd. Method and apparatus of determining an attitude of a satellite. 4,680,718, 7-14-87, Cl. 364-455.000.
Sasaki, Toshiro: *See*—
Kosaka, Michitaka; Mohri, Satoshi; Kawano, Katsumi; Sasaki, Toshiro; Miyamoto, Shoji; and Nakajima, Takashi, 4,658,361, Cl. 364-434.000.
Sasaki, Yasuchiyo: *See*—
Ishiwatari, Takeo; Sasaki, Yasuchiyo; Misawa, Rokuro; and Takao, Shingo, 4,641,690, Cl. 141-4.000.
Sasaki, Yasuhito: *See*—
Fukuda, Norisuke; Sasaki, Yasuhito; and Watanabe, Fumio, 4,671,458, Cl. 236-49.000.
Sasaki, Yasumi: *See*—
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, 4,670,320, Cl. 428-141.000.
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, 4,673,435, Cl. 75-235.000.
Sasaki, Yasushi: *See*—
Tsukiuda, Kenji; and Sasaki, Yasushi, 4,656,948, Cl. 102-452.000.

oshio: *See*—
, Hiroshi; and Sasaki, Yoshio, 4,649,175, Cl. 525-38.000.
gi, Yoshiro; Odaka, Makoto; Sato, Takeshi; Sasaki, Yoshio; Tokumo, Akio, 4,644,292, Cl. 330-279.000.
gi, Yoshiro; Tokumo, Akio; Yoshimi, Toshikazu; Kato, Shin-; Sasaki, Yoshio; Odaka, Makoto; and Sato, Takeshi, 8,117, Cl. 381-86.000.
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i, Kengo; Sasaki, Yoshiyuki; and Kato, Toshiyuki, 4,694,305, 346-76.0PH.
up. Earthquake forecasting method. 4,656,867, 4-14-87, Cl. 0R.
kihiro: *See*—
Kunio; Sasaki, Yukihiro; and Niwa, Hirotoshi, 4,658,057, Cl. 608.000.
ie, Nishimura, Kotaro; and Minato, Osamu, to Hitachi, Ltd. nge-over circuit and semiconductor memory using the same. 2-3-87, Cl. 365-210.000.
taka; Kiyomiya, Yutaka; and Nakamura, Toshio, to Nitto l Industry Co., Ltd. Process for improving activity of tellu- ntaining metal oxide catalysts. 4,709,070, 11-24-87, Cl. 00.
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zki: Bat swing practice means. 4,634,121, 1-6-87, Cl. 273-
Hachirou; and Tsujimura, Masakuni, to Nippondenso Co., ition control system for internal combustion engines. 9-1-87, Cl. 123-609.000.
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himper; and Sasakura, Tadao, 4,673,598, Cl. 427-412.000.
izo: *See*—
, Katsuhiko; Yoshihara, Satoshi; Iijima, Shigeharu; nori, Eizo; Matsushima, Masaaki; and Kishi, Hiroyoshi, 418, Cl. 428-192.000.
Edward K. *See*—
Thomas E.; and Sasamoto, Edward K., 4,634,471, Cl. 62.000.
Toshio: *See*—
Akira; Okuda, Tadashi; Ieki, Kouichi; and Sasamoto, o, 4,702,555, Cl. 350-247.000.
Yasuhiko; Atsumi, Takeo; Suzuki, Shin; and Hoshi, to Taiyo Fishery Co., Ltd. Process for preparing prawn- 4,666,720, 5-19-87, Cl. 426-104.000.
Kohei; and Tokumitsu, Junsuke, to Victor Company of d Video) signal processing apparatus for processing video the time of a special reproduction mode. 4,635,134, 1-6-87, 2.000.
Kohei, to Victor Company of Japan, Ltd. Tracking control 647,990, 3-3-87, Cl. 360-70.000.
yoshi: *See*—
Susumu; Hara, Kazumasa; Sasano, Akiyoshi; and Koike, , 4,638,751, Cl. 112-254.000.
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unori: *See*—
ta, Yasuhiro; Ito, Shoji; Kawai, Yukio; Sasano, Mitsunori; hmura, Fusaji, 4,665,948, Cl. 137-625.480.
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Nobuo; and Sasano, Naoshige, 4,682,849, Cl. 350-96.220.
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Yasukazu; and Sasanuma, Hiroshi, 4,670,856, Cl. 0.000.
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; and Takaoka, Yoshiyasu, to Honda Giken Kogyo Kabu- a. Fuel injection valve having an end flange formed by king and its method of manufacture. 4,688,312, 8-25-87, Cl.
o Mitsubishi Denki Kabushiki Kaisha. Moving distance r an elevator. 4,671,391, 6-9-87, Cl. 187-134.000.
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oshi: *See*—
Takatumi; Sasaoka, Hiroshi; Masutomi, Susumu; Itoh, ; and Takada, Mitsuru, 4,698,764, Cl. 364-424.100.
Itoh, Hiroshi; Takada, Mitsuru; Sasaoka, Hiroshi; Inagaki, Takahumi; and Masutomi, Susumu, 4,689,745, Cl. 364-424.100.
Sasaoka, Michio: *See*—
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,656,264, Cl. 540-353.000.
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,665,166, Cl. 540-215.000.
Torii, Sigeru; Uneyama, Kenji; Tanaka, Hideo; Nokami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,689,411, Cl. 540-358.000.
Torii, Sigeru; Tanaka, Hideo; Sasaoka, Michio; Uto, Seiryu; and Hayase, Syozo, 4,713,452, Cl. 540-358.000.
Sasashige, Hiroaki: *See*—
Hirakawa, Tadashi; Sasashige, Hiroaki; and Okawa, Haruo, 4,644,896, Cl. 118-44.000.
Sasatani, Takashi: *See*—
Takada, Susumu; Sasatani, Takashi; Shindo, Hirohisa; Matsushita, Akira; and Eigyo, Masami, 4,690,930, Cl. 514-293.000.
Sasaya, Hideaki: *See*—
Fukami, Akira; Oshiro, Takao; and Sasaya, Hideaki, 4,678,118, Cl. 237-12.30B.
Iwanami, Shigeki; Inagaki, Mitsuo; and Sasaya, Hideaki, 4,650,405, Cl. 418-5.000.
Kamiya, Sigeru; Nozawa, Masaei; Ishida, Toshinobu; and Sasaya, Hideaki, 4,699,509, Cl. 356-70.000.
Kobayashi, Toshiki; Fukami, Akira; Mizuno, Junzi; and Sasaya, Hideaki, 4,660,879, Cl. 296-1.00S.
Takeda, Kenji; Inagaki, Mitsuo; Sasaya, Hideaki; and Matsui, Kazuma, 4,690,465, Cl. 303-119.000.
Sasaya, Kazushi: *See*—
Kanamaru, Hisanobu; Sasaya, Kazushi; Onuma, Tomiyasu; and Tohkairin, Akira, 4,644,850, Cl. 91-507.000.
Sasaya, Osamu: *See*—
Nishizawa, Masahiro; Miura, Kiyoshi; Sasaya, Osamu; and Odaka, Yoshiyuki, 4,652,462, Cl. 427-53.100.
Nishizawa, Masahiro; Yokomizo, Hiroshi; Miura, Kiyoshi; and Sasaya, Osamu, 4,657,961, Cl. 524-297.000.
Sasayama, Takao; Oho, Shigeru; Kanke, Atsushi; Shibata, Takanori; and Endo, Akira, to Hitachi, Ltd. Solid-state optical interferometer. 4,708,480, 11-24-87, Cl. 356-350.000.
Sasayama, Takao: *See*—
Amano, Matsuo; Shida, Masami; Sakamoto, Masahide; Hirayama, Takeshi; and Sasayama, Takao, 4,703,430, Cl. 364-431.050.
Suzuki, Seiko; Sasayama, Takao; and Miki, Masayuki, 4,664,773, Cl. 204-406.000.
Sasazaki, Isao, to Alps Electric Co., Ltd. Floating type magnetic head. 4,658,314, 4-14-87, Cl. 360-103.000.
Sasazawa, Kazuo, to Taiyo Yuden Kabushiki Kaisha. Dielectric ceramic composition. 4,713,726, 12-15-87, Cl. 361-321.000.
Sasdi, Andras: *See*—
Backsai, Endre; Retfalvi, Ferenc; and Sasdi, Andras, 4,694,479, Cl. 378-58.000.
Sase, Akira; Nagata, Takeo; Fukunaga, Masao; Sakurai, Yutaka; and Satomi, Yoshikatsu, deceased (by Satomi, Fumiko, legal representative), to Hitachi, Ltd. Apparatus for checking patterns on printed circuit boards. 4,680,627, 7-14-87, Cl. 358-101.000.
Sase, Akira: *See*—
Hara, Yasuhiko; Karasaki, Koichi; Ujite, Noriaki; and Sase, Akira, 4,692,690, Cl. 324-73.0PC.
Hara, Yasuhiko; Saito, Keiya; Karasaki, Koichi; and Sase, Akira, 4,700,225, Cl. 358-106.000.
Sase, Ichiro: *See*—
Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; Yamada, Osamu; and Ueguri, Shigeharu, 4,672,612, Cl. 371-37.000.
Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; and Yamada, Osamu, 4,675,868, Cl. 371-37.000.
Sashco, Inc.: *See*—
Johnson, Jeffrey B., 4,651,897, Cl. 222-55.000.
Sashida, Kiyoshi: *See*—
Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Ohji, Nobuaki; and Sashida, Kiyoshi, 4,707,057, Cl. 350-96.120.
Sashida, Nobuo: *See*—
Takeda, Masatoshi; and Sashida, Nobuo, 4,686,447, Cl. 323-210.000.
Sashiki, Takashi: *See*—
Mikami, Yoshiharu; Sashiki, Takashi; and Asai, Yoshiharu, 4,664,200, Cl. 177-25.000.
Sashin, Donald; and Sternglass, Ernest J., to University of Pittsburgh. Radiography apparatus and method. 4,692,937, 9-8-87, Cl. 378-062.000.
Sashin, Donald; and Sternglass, Ernest J., to University of Pittsburgh. Stereoscopic radiography apparatus and method. 4,696,022, 9-22-87, Cl. 378-41.000.
Sashoh, Hidehiko: *See*—
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Sasib S.p.A.: *See*—
Cristiani, Athos, 4,640,013, Cl. 131-94.000.
Gherardi, Gian L., 4,664,249, Cl. 198-410.000.
Gherardi, Gian L., 4,699,033, Cl. 83-348.000.
Gianese, Goffredo, 4,691,848, Cl. 222-269.000.
Gurioli, Pasquino, 4,644,152, Cl. 250-223.00R.
Manservisi, Renato; and Fossi, Mario, 4,702,730, Cl. 493-56.000.
Pasquali, Giancarlo, 4,636,036, Cl. 350-172.000.
Sartoni, Massimo, 4,657,031, Cl. 131-109.100.
Saska, Michael, to Louisiana State University and Agricultural and Mechanical College. Process for reducing the 4-carboxybenzalde-

hyde content of a crude terephthalic acid product. 4,670,587, 6-2-87, Cl. 562-485.000.

Saski, Tomoyuki: *See*—
Fujita, Shigeyoshi; Saski, Tomoyuki; Fukuhara, Kazuyoshi; and Nishikawa, Hirohsi, 4,671,183, Cl. 104-93.000.

Sasnett, Michael W.; Rorden, Robert J.; and Gibson, Larry A., to Coherent, Inc. Power supply for gas discharge lasers. 4,648,093, 3-3-87, Cl. 372-38.000.

Sasol Operations (Proprietary) Limited: *See*—
Meyer, Philippus J., 4,643,109, Cl. 110-229.000.

Sass, Wolfgang: *See*—
Oehler, Henry; Peth, Norbert; Holpp, Hans W.; and Sass, Wolfgang, 4,693,017, Cl. 34-58.000.

Sassa, Koichi: *See*—
Tomizawa, Kenji; Shimanuki, Yasushi; and Sassa, Koichi, 4,664,742, Cl. 156-607.000.
Tomizawa, Kenji; Sassa, Koichi; and Shimanuki, Yasushi, 4,704,257, Cl. 422-249.000.

Sassa, Yuusei; Yoshieda, Keiichi; and Miyazaki, Kunio, to Yoshida Kogyo K. K. Slide-fastener discharging apparatus. 4,650,091, 3-17-87, Cl. 221-220.000.

Sassa, Yuusei, to Yoshida Kogyo K. K. Apparatus for holding boxes in attachment of same to separable slide fastener chain with box pin and insertion pin. 4,653,184, 3-31-87, Cl. 29-767.000.

Sassa, Yuusei, to Yoshida Kogyo K. K. Device for pulling up slider of a slide fastener chain. 4,685,207, 8-11-87, Cl. 29-708.000.

Sasse, Klaus; Brandes, Wilhelm; Hanssler, Gerd; Petnecke, Paul; Schmitt, Hans-Georg; and Paulus, Wilfried, to Bayer Aktiengesellschaft. 1-heteroaryl-4-aryl-pyrazolin-5-ones. 4,663,327, 5-5-87, Cl. 514-275.000.

Sasse, Klaus; Hammond, Michael; Seuter, Friedel; Perzborn, Elisabeth; Pelster, Bernhard; Sturton, Graham; and Abram, Trevor, to Bayer Aktiengesellschaft. 1-Heteroaryl-4-aryl-pyrazolin-5-ones for use as medicaments. 4,698,344, 10-6-87, Cl. 514-275.000.

Sasse, Klaus: *See*—
Reinehr, Ulrich; Sasse, Klaus; Jager, Gerhard; and Radt, Walter, 4,663,365, Cl. 523-122.000.

Sasselli, Giacomo: *See*—
Romano, Ugo; Sasselli, Giacomo; and Raisa, Luigi, 4,670,606, Cl. 568-410.000.

Sasser, David E.: *See*—
Mitchell, Peter W. D.; McElligott, Lois T.; and Sasser, David E., 4,704,485, Cl. 570-231.000.

Sasser, R. Garth; and Hamilton, William C., to Idaho Research Foundation, Inc. Antigen associated with early detection of mammalian pregnancy. 4,705,748, 11-10-87, Cl. 435-7.000.

Sasser, Thurman, to Laser Photonics, Inc. Laser device. 4,677,639, 6-30-87, Cl. 372-93.000.

Sassier, Pierre, to Thomson CSF. Temperature-compensated pressure controller, operationally reliable extinguisher provided with such a pressure controller and process for filling such a pressure controller. 4,697,643, 10-6-87, Cl. 169-23.000.

Sasson, Steven J., to Eastman Kodak Company. Video signal apparatus for processing a time-division-multiplex video signal having a buffer segment. 4,654,697, 3-31-87, Cl. 358-12.000.

Sasson, Steven J., to Eastman Kodak Company. Apparatus for processing a time-division multiplex video signal having signal durations divisible by the same number. 4,695,874, 9-22-87, Cl. 358-21.00R.

Sassone, Robert L.: *See*—
Durand, Joseph L., deceased, 4,699,576, Cl. 418-58.000.

Sassor, Donald C.: *See*—
Anderson, J. Edward; and Sassor, Donald C., 4,665,830, Cl. 104-124.000.

Sastra, Budiman: *See*—
Dohmen, Gerardus M.; Fijnvandraat, Jacob G.; and Sastra, Budiman, 4,706,146, Cl. 360-122.000.

Sastrarahardja, Paulus: *See*—
Graef, Kurt; Axt, Egon; Wirtz, Hans-Peter; Lauscher, Friedrich; Potzsch, Werner; Korfer, Peter; Sastrarahardja, Paulus; Croonen, Werner; and Serf, Josef, 4,649,763, Cl. 74-763.000.

Sastri, Vinod R.: *See*—
Tesoro, Giuliana C.; Sastri, Vinod R.; and Narang, Subash C., 4,656,235, Cl. 526-262.000.

Sastry, Shankar M.; O'Neal, James E.; and Peng, Tzy C., to McDonnell Douglas Corporation. Advanced titanium composite. 4,639,281, 1-27-87, Cl. 148-407.000.

Sasuta, Michael D.; Rosenthal, Lewis H.; Mills, Donald C.; Marten, Russell A.; Kizior, David J.; Sobti, Arun; and Blankenship, Johnny E., to Motorola, Inc. Console interface for a trunked radio system. 4,698,805, 10-6-87, Cl. 370-97.000.

Sasuta, Michael D.: *See*—
Borras, Jaime Andres; and Sasuta, Michael D., 4,716,407, Cl. 340-825.040.
Zdunek, Kenneth J.; Heyman, Bruce D.; and Sasuta, Michael D., 4,646,345, Cl. 379-62.000.

SAT: *See*—
Midavaine, Thierry R.; and Ouhayoun, Michel M., 4,637,030, Cl. 372-82.000.

Sata, Hiroshi, to NEC Corporation. Current output circuit having well-balanced output currents of opposite polarities. 4,714,900, 12-22-87, Cl. 331-8.000.

Sata, Tashiyuki: *See*—
Matsuda, Atsushi; and Sata, Tashiyuki, 4,651,844, Cl. 180-219.000.

Sata, Toshikatsu; Katsube, Teruaki; and Iida, Yoshiya, to Tokuyama Soda Kabushiki Kaisha. Electrochromic display using bipolar ion-exchange membrane. 4,715,691, 12-29-87, Cl. 350-357.000.

Satake Engineering Co., Ltd.: *See*—
Satake, Toshihiko, 4,634,412, Cl. 474-253.000.
Satake, Toshihiko, 4,645,590, Cl. 209-304.000.
Satake, Toshihiko, 4,700,622, Cl. 100-45.000.

Satake, Keigo: *See*—
Aoki, Katsunichi; Shida, Takafumi; Kanda, Yoichi; Satake, Keigo; Shinkawa, Hiroyasu; and Yamazaki, Shiro, 4,650,515, Cl. 71-90.000.
Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, 4,690,704, Cl. 71-90.000.

Satake, Kouichi: *See*—
Negishi, Shigeyuki; and Satake, Kouichi, 4,667,876, Cl. 237-12.30A.

Satake, Masaki: *See*—
Naoi, Takashi; Fujioka, Takashi; Okamura, Hisashi; and Satake, Masaki, 4,710,456, Cl. 430-564.000.

Satake, Tomoji: *See*—
Sugiki, Hiraku; Odaka, Kentaro; Satake, Tomoji; Ohmori, Takashi; and Yamada, Makoto, 4,656,539, Cl. 360-77.000.

Satake, Toshihiko, to Satake Engineering Co., Ltd. Belt connector device. 4,634,412, 1-6-87, Cl. 474-253.000.

Satake, Toshihiko, to Satake Engineering Co., Ltd. Vertical type screening machine for granular material. 4,645,590, 2-24-87, Cl. 209-304.000.

Satake, Toshihiko, to Satake Engineering Co., Ltd. Apparatus for compressing and solidifying fibrous materials of plants. 4,700,622, 10-20-87, Cl. 100-45.000.

Satake, Toshihiko: *See*—
Kikuchi, Uhee; Nozaki, Hiroyoshi; Fukuda, Masao; and Satake, Toshihiko, 4,698,005, Cl. 425-163.000.

Satake, Toshimi; Minami, Toshiaki; Maruyama, Kazuo; and Fujimura, Fumio, to Jujo Paper Co., Ltd. Heat-sensitive recording sheet. 4,644,375, 2-17-87, Cl. 346-209.000.

Satake, Tsukasa: *See*—
Miyatake, Kimio; and Satake, Tsukasa, 4,667,105, Cl. 250-338.000.

Satani, Eiji; Okamoto, Nagaoki; Fritz, James G.; and Kimura, Hiroshi, to Takeda Chemical Industries, Ltd. Method of producing granular chemical seasoning of high specific volume and product. 4,659,581, 4-21-87, Cl. 426-537.000.

Satco, Inc.: *See*—
Looker, Robert, 4,690,360, Cl. 248-346.000.

Satek, Larry C.: *See*—
Cahill, Paul J.; and Satek, Larry C., 4,647,293, Cl. 44-68.000.
Chang, Yuehsiung; and Satek, Larry C., 4,664,824, Cl. 252-42.700.
Zletz, Alex; Satek, Larry C.; and Miller, Jeffrey T., 4,645,753, Cl. 502-202.000.

Satellite Industries, Inc.: *See*—
Juaire, Phillip R.; and Tegg, Duane T., 4,670,918, Cl. 4-463.000.
Juaire, Phillip R.; Wagner, Frederic M.; and Wildgen, Leo F., 4,689,917, Cl. 49-380.000.

Satellite Technology Services, Inc.: *See*—
Horton, Edwin T.; and Peterson, Robert L., 4,672,687, Cl. 455-277.000.
Rothbarth, James N.; and Smith, Edward W., 4,692,771, Cl. 343-882.000.
Smith, Edward W.; and Garfinkle, Gene, 4,716,416, Cl. 343-915.000.

Sathre, Curtis J., Jr.; and Thornton, Mark R., to Duncan Enterprises. Heating control apparatus. 4,705,930, 11-10-87, Cl. 219-492.000.

Satkamp, Gary A., to McGill Manufacturing Company, Inc. Self-lubricated track-roller bearing and method of constructing the same. 4,685,184, 8-11-87, Cl. 29-148.40R.

Satkunas, Bruno: *See*—
Valbona, Bruno M.; Satkunas, Bruno; and Brym, Stanley J., 4,645,352, Cl. 366-349.000.

Sato, Akihiko; Noto, Akira; Morita, Fumiaki; and Nakajima, Kunihiro, to Shionogi & Co., Ltd. Method for stabilizing rubella HA antigen. 4,690,819, 9-1-87, Cl. 424-88.000.

Sato, Akihiro: *See*—
Takahashi, Tsutomu; Matsukawa, Tetsuya; Naito, Yoshiharo; and Sato, Akihiro, 4,652,540, Cl. 502-108.000.

Sato, Akimasa: *See*—
Motoori, Ryuzo; Kimura, Makoto; Isogai, Masaki; Sato, Akimasa; and Kawahara, Atsushi, 4,651,226, Cl. 358-293.000.

Sato, Akio, to Kabushiki Kaisha Toshiba. Superconducting-coil apparatus. 4,689,439, 8-25-87, Cl. 174-15.0CA.

Sato, Akira, to Tokyo Electric Co., Ltd. Sheet feeding device for business machine. 4,660,823, 4-28-87, Cl. 271-22.000.

Sato, Akira; and Maki, Fumio, to Parker Arrester Co., Ltd. Spray coating chamber free from painting mist leakage. 4,681,026, 7-21-87, Cl. 98-115.200.

Sato, Akira; Sato, Kazuo; Saito, Takaharu; Shima, Junkoh; Mizutani, Kansei; and Mikawa, Toshimasa, to Toyota Jidosha Kabushiki Kaisha. Apparatus for calculating position of vehicle. 4,713,767, 12-15-87, Cl. 364-453.000.

Sato, Akira: *See*—
Hirata, Tadashi; Hashimoto, Yukio; Ogasa, Takehiro; Kobayashi, Shigeru; Sato, Akira; Sato, Kiyoshi; and Takasawa, Seigo, 4,663,450, Cl. 540-205.000.
Kato, Hisao; and Sato, Akira, 4,668,157, Cl. 414-730.000.
Kumamoto, Kenichiro; Sato, Akira; Ohya, Koichi; and Matsuda, Koichi, 4,691,378, Cl. 455-301.000.
Nagai, Takaatsu; Takada, Masayuki; Sato, Akira; and Imamura, Mineo, 4,641,319, Cl. 373-84.000.

Tamaki, Yoichi; Kure, Tokuo; Sato, Akira; and Higuchi, Hisayuki, 4,635,090, Cl. 357-50.000.

Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; and Dohi, Hideyuki, to Nippon Petrochemicals Company, Limited. New electrical insulating oil and oil-filled electrical appliances. 4,639,833, 1-27-87, Cl. 361-315.000.

Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Matsuzaka, Eiichi; and Narui, Satoshi, to Nippon Petrochemicals Company, Limited. Electrical insulating oil and oil-filled electrical appliances. 4,642,730, 2-10-87, Cl. 361-315.000.

Sato, Atsushi; Endo, Keiji; Dohi, Hideyuki; and Kawakami, Shigenobu, to Nippon Petrochemicals Co., Ltd. Electrical appliance impregnated with a curable impregnant composition. 4,670,348, 6-2-87, Cl. 428-461.000.

Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Yanagishita, Hitoshi; and Hayashi, Shozo, to Nippon Petrochemicals Company Limited. Method for improving an electrical insulating hydrocarbon. 4,681,980, 7-21-87, Cl. 585-6.300.

Sato, Atsushi; Murai, Yoshikazu; Yamaguchi, Tatsuo; Mochizuki, Kanji; and Sugisawa, Kunio, to Nippon Petrochemicals Company, Limited. Surface active agent. 4,692,270, 9-8-87, Cl. 252-353.000.

Sato, Atsushi; Kawakami, Shigenobu; Endo, Keiji; and Dohi, Hideyuki, to Nippon Petrochemicals Company, Limited. Oil-impregnate capacitor. 4,716,084, 12-29-87, Cl. 428-458.000.

Sato, Atsushi: *See—*

Shimizu, Isoo; Hirano, Ryotaro; Matsumura, Yasuo; Nomura, Hideki; Uchida, Kazumichi; and Sato, Atsushi, 4,694,100, Cl. 560-105.000.

Takahashi, Naoya; Endo, Keiji; Matsuzaka, Eiichi; Narui, Satoshi; and Sato, Atsushi, 4,686,548, Cl. 503-213.000.

Sato, Atsushige; Miura, Ishi; Kumei, Yasuhiro; Okuno, Osamu; Nakano, Tsuyoshi; and Yoshida, Bunsaku, to Sato, Atsushige; Miura, Ishi; and G-C Dental Industrial Corp. Method of making selenium-containing amalgam alloys for dental restoration. 4,702,765, 10-27-87, Cl. 75-0.50B.

Sato Electronique S.A.: *See—*

Rousseau, Alain, 4,655,090, Cl. 73-861.810.

Sato, Fumie, to Nissan Chemical Industries, Ltd. 2-Substituted-1,3-butadiene derivatives and process for producing same. 4,677,216, 6-30-87, Cl. 556-482.000.

Sato, Fumihiko; and Yamada, Kazuyoshi, to NEC Corporation. Current switching type logic circuit. 4,686,395, 8-11-87, Cl. 307-455.000.

Sato, Fumihiro: *See—*

Umezawa, Hamao; Suzuki, Shintaro; Ohkuma, Taka'aki; Sato, Fumihiro; and Nakamura, Teruya, 4,710,517, Cl. 514-616.000.

Sato, Fumio: *See—*

Cho, Hidetsura; Aisaka, Kazuo; Sato, Fumio; and Ishihara, Takafumi, 4,683,234, Cl. 514-256.000.

Sato, Goro; Ogata, Masamitsu; Masuda, Tatsuo; and Ida, Takanori, to Catalysts & Chemicals Industries Co., Ltd. Catalytic cracking process for heavy oil with mixture of alumina and zeolite. 4,692,236, 9-8-87, Cl. 208-114.000.

Sato, Hajime; and Mizuguchi, Mamoru, to Kabushiki Kaisha Toshiba. Image sensor. 4,644,411, 2-17-87, Cl. 358-294.000.

Sato, Haruo, to Sato Pharmaceutical Research Institute Ltd. Deuteroporphyrin derivative or salt thereof. 4,634,557, 1-6-87, Cl. 540-145.000.

Sato, Hideaki; and Yagihara, Morio, to Fuji Photo Film Co., Ltd. Silver halide photographic light-sensitive material. 4,680,257, 7-14-87, Cl. 430-614.000.

Sato, Hideharu: *See—*

Sawai, Hideaki; and Sato, Hideharu, 4,671,600, Cl. 439-221.000.

Sato, Hidejiro. Attaching device for bag. 4,707,889, 11-24-87, Cl. 24-30.50R.

Sato, Hidekazu, to Kokusan Kinzoku Kogyo Kabushiki Kaisha. Keyless steering shaft lock arrangement. 4,638,882, 1-27-87, Cl. 180-287.000.

Sato, Hidekazu, to Kokusan Kinzoku Kogyo Kabushiki Kaisha. Steering lock arrangement. 4,643,009, 2-17-87, Cl. 70-252.000.

Sato, Hideo, to Sony Corporation. Printed circuit board terminal device. 4,680,675, 7-14-87, Cl. 361-397.000.

Sato, Hideo: *See—*

Yokoya, Hiroaki; Sano, Kenji; and Sato, Hideo, 4,708,922, Cl. 430-73.000.

Sato, Hidetaka: *See—*

Makino, Daisuke; Sato, Hidetaka; Suzuki, Hiroshi; Uchimura, Shun-ichiro; and Suzuki, Hiroshi, 4,645,688, Cl. 427-82.000.

Sato, Hiroaki: *See—*

Suzuki, Hitoshi; and Sato, Hiroaki, 4,642,508, Cl. 310-321.000.

Sato, Hirohide: *See—*

Sada, Takeshi; Kato, Hidetoshi; Shibata, Hiroshi; Mori, Kazumasa; Mayumi, Nobuo; Sato, Hirohide; Akita, Yoshio; and Tanaka, Shigeru, 4,665,354, Cl. 320-64.000.

Sato, Hiroki; Sanada, Yukitomo; Yokoya, Yuji; Masaki, Kazuo; Nakagawa, Kiyohara; and Murata, Syuuji, to Toyota Jidosha Kabushiki Kaisha; and Nippon Denso Kabushiki Kaisha. Electromagnetic directional control valve. 4,681,143, 7-21-87, Cl. 137-625.370.

Sato, Hiroki: *See—*

Nishikawa, Masumi; Ishikawa, Masanobu; Sato, Hiroki; Toyoda, Shuhei; and Ishii, Hakumi, 4,633,732, Cl. 74-493.000.

Sato, Hiromi: *See—*

Ishizumi, Kikuo; Ohashi, Naohito; Tanno, Norihiko; Sato, Hiromi; Fukui, Masaru; and Morisada, Shinya, 4,673,668, Cl. 514-34.000.

Sato, Hiromitsu: *See—*

Hibino, Yoshitaka; Fukuzawa, Takeshi; Sato, Hiromitsu; and Asakura, Masahiko, 4,705,011, Cl. 123-589.000.

Sato, Hiroshi; Ishii, Norio; and Hirose, Kenichi, to Sumitomo Chemical Company, Limited. Method for selective dealkylation of a dialkylbenzene at the paraposition thereof. 4,642,409, 2-10-87, Cl. 585-486.000.

Sato, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Analog input circuit with combination sample and hold and filter. 4,651,034, 3-17-87, Cl. 307-556.000.

Sato, Hiroshi; Ishii, Norio; and Hirose, Kenichi, to Sumitomo Chemical Company, Limited. Method for selective dealkylation of 1,4-dialkylbenzene. 4,654,457, 3-31-87, Cl. 585-486.000.

Sato, Hiroshi; Kadowaki, Kohei; Naito, Kaoru; Toyoda, Kenji; and Tsuchihashi, Hidehisa, to Nippon Kogaku K. K. Thermal system image recorder. 4,704,617, 11-3-87, Cl. 346-76.0PH.

Sato, Hiroshi; Hirose, Kenichi; Ishii, Norio; and Umada, Youichi, to Sumitomo Chemical Company. Production of epsilon-caprolactam. 4,709,024, 11-24-87, Cl. 540-536.000.

Sato, Hiroshi; Ikimi, Kiyoshi; Tojima, Hideto; and Takahashi, Mikoto, to Sumitomo Chemical Company, Limited. Process for dimerizing lower α-olefins. 4,709,112, 11-24-87, Cl. 585-513.000.

Sato, Hiroshi; and Kobayashi, Yoshihito, to Takeda Riken Co., Ltd. IC test equipment. 4,715,501, 12-29-87, Cl. 209-573.000.

Sato, Hiroshi: *See—*

Gomi, Tetsuo; Suganuma, Nobuo; Ishii, Kazuo; and Sato, Hiroshi, 4,649,044, Cl. 424-49.000.

Hatanai, Takashi; Mukasa, Koichi; Nakashima, Keishi; and Sato, Hiroshi, 4,657,812, Cl. 428-328.000.

Kokubun, Shin-ichi; and Sato, Hiroshi, 4,662,522, Cl. 209-656.000.

Murata, Yasuzo; and Sato, Hiroshi, 4,643,684, Cl. 434-409.000.

Ohgaki, Kenji; and Sato, Hiroshi, 4,689,570, Cl. 324-418.000.

Satoh, Tsuyoshi; Mitsuishi, Tsutomu; Toyoda, Kenji; Naito, Kaoru; Ogawa, Makoto; and Sato, Hiroshi, 4,698,646, Cl. 346-76.0PH.

Suzuki, Kempei; Iwanaga, Yushi; Sato, Hiroshi; Sato, Kohei; Igarashi, Noriyuki; and Koya, Shinichi, 4,691,831, Cl. 209-573.000.

Takahashi, Toshihiko; Tarui, Toshimi; and Sato, Hiroshi, 4,702,778, Cl. 148-12.00F.

Tashiro, Korefumi; Saito, Kunio; Sato, Hiroshi; and Hori, Takamasa, 4,651,317, Cl. 370-86.000.

Sato, Hiroyuki: *See—*

Shibata, Masahiro; Tsujibayashi, Tatsuo; Sato, Hiroyuki; and Machida, Yoshinori, 4,682,245, Cl. 358-311.000.

Sato, Hisanao: *See—*

Fujita, Toshihiro; Ishizuka, Satoshi; Fujito, Katsuyuki; and Sato, Hisanao, 4,677,630, Cl. 372-32.000.

Sato, Hisato: *See—*

Sasaki, Makoto; Sasaki, Haruyoshi; and Sato, Hisato, 4,673,756, Cl. 558-416.000.

Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, 4,705,870, Cl. 549-369.000.

Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, 4,705,905, Cl. 585-25.000.

Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, 4,713,468, Cl. 558-411.000.

Sato, Hitoshi: *See—*

Imai, Ryusaku; Sekiguchi, Fujio; Chou, Tomoyuki; Ohya, Nobumasa; and Sato, Hitoshi, 4,654,483, Cl. 379-54.000.

Sato, Hosaku; Ayusawa, Kazutoshi; Saito, Minoru; and Nakayama, Matsue, to Oki Electric Industry Co., Ltd. Dielectric ceramic composition. 4,699,891, 10-13-87, Cl. 501-139.000.

Sato, Ichiro: *See—*

Onishi, Hikaru; Sato, Ichiro; Ryugo, Mitsunobu; and Fukumori, Norio, 4,649,610, Cl. 29-26.00A.

Sato, Ichitaro, to Sony Corporation. VTR having automatic carrier detection. 4,686,585, 8-11-87, Cl. 360-33.100.

Sato, Ichitaro: *See—*

Ishige, Masafumi; Kanemoto, Yoshitaka; Yokoyama, Tamio; and Sato, Ichitaro, 4,661,842, Cl. 358-36.000.

Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakami, Kanji; Okada, Hisao; Sasaki, Soji; Inose, Shigeru; Suto, Mareo; and Uzuhashi, Hideo, to Hitachi, Ltd. Tablet type coordinate input apparatus using elastic wave. 4,665,282, 5-12-87, Cl. 178-18.000.

Sato, Ichiya; and Yoneyama, Takao, to Hitachi, Ltd. Rotating machinery dingnosis system with acoustic emission technique. 4,669,315, 6-2-87, Cl. 73-660.000.

Sato, Ichiya: *See—*

Sato, Kazuo; Shiohata, Kouki; Matsushita, Osami; Kikuchi, Katsuaki; Takasumi, Masakazu; Sato, Ichiya; and Kaneko, Ryoichi, 4,685,335, Cl. 73-660.000.

Sato, Isao, to Terumo Corporation. Medical needle assembly and medical device incorporating the same. 4,655,764, 4-7-87, Cl. 604-408.000.

Sato, Isao; Ishibashi, Yoji; Tamura, Zensuke; Ohmori, Takashi; Minakawa, Yoshimitsu; Fujimura, Hidekazu; and Uchiyama, Yoshihiro, to Hitachi, Ltd. Combustor for gas turbine. 4,671,069, 6-9-87, Cl. 60-737.000.

Sato, Isao, to Terumo Kabushiki Kaisha. Ventilating needle and method of manufacturing the same. 4,675,017, 6-23-87, Cl. 604-405.000.

Sato, Isao: *See—*

Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kunihiro, Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Arai, Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, Cl. 60-39.230.

Iizuka, Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wada, Katsuo; Hirose, Fumiyuki; Kuroda, Michio; Uchiyama, Yoshihiro; Ishibashi, Yoji; Sato, Isao; and Inose, Hiroshi, 4,683,715, Cl. 60-39.060.

Iizuka, Nobuyuki; Hirose, Fumiyuki; Sato, Isao; and Ishibashi, Yoji, 4,704,869, Cl. 60-751.000.

Miyatani, Kazuo; and Sato, Isao, 4,678,292, Cl. 350-609.000.

Yoshikawa, Seiji; Sato, Isao; Nakayama, Shigenori; and Amazaki, Mitsuhiro, 4,697,498, Cl. 91-420.000.
Sato, Jiro: *See*—
Ai, Hideo; Ideda, Akihiko; and Sato, Jiro, 4,702,997, Cl. 430-325.000.
Sato, Jun, to Shimano Industrial Company Limited. Fishing reel. 4,651,949, 3-24-87, Cl. 242-217.000.
Sato, Jun, to Shimano Industrial Company Limited. Fishing reel. 4,681,276, 7-21-87, Cl. 242-84.10R.
Sato, Junichi, to Kabushiki Kaisha Shinsei Industries. Manually-operated labeler. 4,699,685, 10-13-87, Cl. 156-384.000.
Sato, Junichi: *See*—
Kozuki, Susumu; Nagasawa, Kenichi; Edakubo, Hiroo; Sato, Junichi; and Takayama, Nobutoshi, 4,638,390, Cl. 360-74.100.
Sato, Kanemasa; Ueno, Sadayasu, and Ichikawa, Norio, to Hitachi, Ltd. Apparatus for sensing oxygen concentration. 4,657,660, 4-14-87, Cl. 204-427.000.
Sato, Kanichi; Setoyama, Mikio; Kiguchi, Shoji; and Tanaka, Toshio, to Kabushiki Kaisha Komatsu Seisakusho. Process for making foundry molds. 4,638,845, 1-27-87, Cl. 164-12.000.
Sato, Kanro: *See*—
Murakami, Kenji; Konomatu, Yositaka; and Sato, Kanro, 4,664,793, Cl. 210-181.000.
Sato, Katsuharu: *See*—
Hamanaka, Kenjiro; Nozu, Shinsaku; Sato, Katsuharu; and Tanaka, Hozumi, 4,663,750, Cl. 369-45.000.
Nozu, Shinsaku; Sato, Katsuharu; Tanaka, Hozumi; and Hamanaka, Kenjiro, 4,638,391, Cl. 369-45.000.
Sato, Katsuhiko: *See*—
Senda, Yutaka; Sato, Katsuhiko; Kozawa, Tetsuo; Nomura, Etsuzo; and Sakakibara, Yasuo, 4,706,584, Cl. 112-121.110.
Sato, Katsujiro: *See*—
Morita, Shuji; Sato, Katsujiro; Asaoka, Yoshio; Harada, Isao; and Hirano, Tomiyasu, 4,644,914, Cl. 123-90.550.
Sato, Katsumi, to Kabushikigaisha Tokyo Kikai Seisakusho. Folding cylinder for a web folding apparatus. 4,635,915, 1-13-87, Cl. 270-49.000.
Sato, Katsuo: *See*—
Toriyama, Minoru; Kunisada, Hideaki; and Sato, Katsuo, 4,672,524, Cl. 363-56.000.
Sato, Katsuyuki, to Hitachi, Ltd. MOS amplifier and semiconductor memory using the same. 4,653,029, 3-24-87, Cl. 365-205.000.
Sato, Kazo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, to Fuji Photo Film Co., Ltd. Heat developable light-sensitive material. 4,659,653, 4-21-87, Cl. 430-559.000.
Sato, Kazuhiko; Nakamura, Genshiro; and Itagaki, Takushi, to Mitsubishi Denki Kabushiki Kaisha. Amorphous solar cell. 4,701,572, 10-20-87, Cl. 136-258.000.
Sato, Kazuhiko: *See*—
Hirakawa, Norishige; Okada, Kazuo; and Sato, Kazuhiko, 4,684,333, Cl. 417-420.000.
Sato, Kazuhiro; and Mori, Hiroyoshi, to Fujitsu Limited. Overcurrent protection circuit for line circuits in a switching system. 4,661,879, 4-28-87, Cl. 361-58.000.
Sato, Kazuhiro; Iijima, Yoshimi; and Mori, Hiroyoshi, to Fujitsu Limited. Communications system for transmitting and receiving data and voice signals simultaneously through 2-wire signal lines. 4,670,874, 6-2-87, Cl. 370-110.100.
Sato, Kazuhiro; Achiha, Masahiro; and Nagahara, Shusaku, to Hitachi, Ltd. Signal storage system. 4,677,621, 6-30-87, Cl. 371-30.000.
Sato, Kazuhiro: *See*—
Noda, Naoki; Nihashi, Iwao; and Sato, Kazuhiro, 4,710,608, Cl. 219-161.000.
Sato, Kazuo, to Alps Electric Co., Ltd. Magnetic recording-reproducing device. 4,685,006, 8-4-87, Cl. 360-64.000.
Sato, Kazuo; Shiohata, Kouki; Matsushita, Osami; Kikuchi, Katsuaki; Takasumi, Masakazu; Sato, Ichiya; and Kaneko, Ryoichi, to Hitachi, Ltd. Method and apparatus for monitoring cracks of a rotatable body. 4,685,335, 8-11-87, Cl. 73-660.000.
Sato, Kazuo, to Tokico Ltd. Compressed air supplying device. 4,685,941, 8-11-87, Cl. 55-163.000.
Sato, Kazuo: *See*—
Sasaki, Torahiko; Sato, Kazuo; Ohkawa, Masahiro; Suzuki, Yoshihiro; Kubota, Masato; Nakao, Hatsuo; and Tange, Kyoichi, 4,696,870, Cl. 429-14.000.
Sato, Akira; Sato, Kazuo; Saito, Takaharu; Shima, Junkoh; Mizutani, Kansei; and Mikawa, Toshimasa, 4,713,767, Cl. 364-453.000.
Sato, Kazuteru: *See*—
Hojo, Takeshi; Fukano, Michio; Saijo, Takashi; and Sato, Kazuteru, 4,653,325, Cl. 73-505.000.
Hojo, Takeshi; Kawada, Shin-Ichi; Fukano, Michio; Yamamoto, Kanshi; Okamura, Youji; Sato, Kazuteru; Saito, Masahiko; and Hane, Fuyuki, 4,694,696, Cl. 73-497.000.
Konno, Masashi; Hojo, Takeshi; and Sato, Kazuteru, 4,703,655, Cl. 73-505.000.
Sato, Kazuyuki, to Kabushiki Kaisha Toshiba. LSI memory circuit. 4,651,308, 3-17-87, Cl. 365-230.000.
Sato, Kazuyuki, to Kabushiki Kaisha Toshiba. Sequential access LSI memory circuit for pattern generator. 4,679,173, 7-7-87, Cl. 365-233.000.
Sato, Kei, to Ricoh Company, Ltd. Dot corrected laser printer. 4,700,201, 10-13-87, Cl. 346-108.000.
Sato, Kei: *See*—
Ito, Masahiro; Murayama, Noboru; Suziku, Koichi; Sato, Kei; and Sato, Tsutomu, 4,698,778, Cl. 364-518.000.
Suzuki, Koichi; Murayama, Noboru; Ito, Masahiro; and Sato, Kei, 4,698,691, Cl. 358-283.000.
Sato, Keiichi: *See*—
Watanabe, Kikuo; Kobayashi, Mitsuo; Hirose, Noboru; and Sato, Keiichi, 4,679,296, Cl. 29-568.000.
Sato, Keishi: *See*—
Utsunomiya, Tadashi; Matsumuro, Yasuhiko; Sato, Keishi; Fukahori, Yoshihide; and Ogawa, Masao, 4,674,622, Cl. 198-500.000.
Sato, Ken; Takahashi, Yutaka; Tsukaya, Takashi; Kato, Shinichi; and Hattori, Shinichiro, to Olympus Optical Co., Ltd. Endoscopic photographing apparatus. 4,646,724, 3-3-87, Cl. 128-6.000.
Sato, Ken-ichi: *See*—
Ishihara, Joo; Ogawa, Toshio; Era, Masashi; and Sato, Ken-ichi, 4,697,320, Cl. 29-132.000.
Sato, Kengo: *See*—
Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.
Sato, Kenichi: *See*—
Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Oisi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.
Sato, Kenro: *See*—
Kyoosei, Noriyuki; and Sato, Kenro, 4,668,209, Cl. 474-190.000.
Sato, Key: *See*—
Sato, Tsutomu; Murayama, Noboru; and Sato, Key, 4,694,353, Cl. 358-283.000.
Sato, Kichihei: *See*—
Tamamizu, Teruyasu; Sato, Kichihei; Tanaka, Takashi; and Sato, Shunkichi, 4,710,428, Cl. 428-408.000.
Sato, Kimiaki: *See*—
Nakano, Masao; Takemae, Yoshihiro; Sato, Kimiaki; and Kodama, Nobumi, 4,704,706, Cl. 365-203.000.
Nakano, Masao; Takemae, Yoshihiro; Nakano, Tomio; Nozaki, Shigeki; Sato, Kimiaki; and Kodama, Nobumi, 4,716,549, Cl. 365-203.000.
Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,636,982, Cl. 365-149.000.
Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,641,166, Cl. 357-23.600.
Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,649,406, Cl. 357-23.600.
Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, 4,660,174, Cl. 365-63.000.
Takemae, Yoshihiro; Nakano, Tomio; Nakano, Masao; and Sato, Kimiaki, 4,707,811, Cl. 365-239.000.
Sato, Kimihiko: *See*—
Oda, Yoshio; Asawa, Tatsuro; Sato, Kimihiko; and Sajima, Yasuo, 4,686,026, Cl. 204-252.000.
Onodera, Tamio; Namatame, Akio; Sato, Kimihiko; and Sumitani, Koji, 4,700,012, Cl. 585-481.000.
Sato, Kiyomi: *See*—
Mine, Taiichi; Sakabe, Busaburo; and Sato, Kiyomi, 4,649,940, Cl. 130-30.00R.
Sato, Kiyoshi; and Matsui, Nobuo, to Fuji Photo Optical Co., Ltd. Test pattern projector for a color television camera. 4,682,214, 7-21-87, Cl. 358-55.000.
Sato, Kiyoshi: *See*—
Hirata, Tadashi; Hashimoto, Yukio; Ogasa, Takehiro; Kobayashi, Shigeru; Sato, Akira; Sato, Kiyoshi; and Takasawa, Seigo, 4,663,450, Cl. 540-205.000.
Hirata, Tadashi; Mochida, Kenichi; Shiraki, Chihiro; and Sato, Kiyoshi, 4,694,001, Cl. 514-210.000.
Hirata, Tadashi; Matsukuma, Ikuo; Yoshiie, Shigeo; Sato, Kiyoshi; and Ohashi, Yoichi, 4,708,956, Cl. 514-210.000.
Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; and Hosaka, Masumi, 4,659,654, Cl. 430-567.000.
Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; Hosaka, Masumi; and Honda, Chika, 4,689,292, Cl. 430-567.000.
Mihara, Tohru; Sato, Kiyoshi; and Terauchi, Yasuo, 4,679,962, Cl. 404-126.000.
Mochida, Kenichi; Ogasa, Takehiro; Shimada, Junichi; Hirata, Tadashi; Sato, Kiyoshi; and Okachi, Ryo, 4,640,919, Cl. 514-241.000.
Sato Kogyo Co., Ltd.: *See*—
Funakawa, Naoyoshi; Demura, Hajime; and Nagamori, Nobuyuki, 4,684,297, Cl. 407-41.000.
Sato, Kohei: *See*—
Suzuki, Kempei; Iwanaga, Yushi; Sato, Hiroshi; Sato, Kohei; Igarashi, Noriyuki; and Koya, Shinichi, 4,691,831, Cl. 209-573.000.
Sato, Koichi: *See*—
Shiraishi, Motoo; Tanaka, Mansei; Nakamura, Minoru; and Sato, Koichi, 4,659,255, Cl. 405-216.000.
Sato, Koichiro: *See*—
Horiya, Keiichi; Takahama, Kazuhide; Kishino, Yasuichi; and Sato, Koichiro, 4,652,154, Cl. 400-120.000.
Nakagawa, Mikio; Sato, Koichiro; Kanemoto, Kuniaki; and Nishimura, Akito, 4,670,349, Cl. 428-516.000.
Sato, Koji, to Daiwa Golf Co., Ltd. Golf club iron. 4,653,756, 3-31-87, Cl. 273-167.00E.
Sato, Koji; Kuroda, Hiroshi; Yamada, Ryuji; and Serino, Mamoru, to Zaidan Hojin Sekitan Gijutsu Kenkyusho; Mitsui Sekitan Kogyo Kabushiki Kaisha; and Kabushiki Kaisha Mitsui Miike Seisakusho

Double ranging drum cutter having bedrock sensor based on video image processing system. 4,715,657, 12-29-87, Cl. 299-1.000.

Sato, Koji: *See*—
Ogihara, Masuo; Ishida, Hiroaki; Nagaoka, Shinji; and Sato, Koji, 4,634,254, Cl. 354-403.000.

Sato, Koki: *See*—
Inada, Yasuo; Sato, Koki; Fujii, Takazo; Yokoyama, Hideo; Takahashi, Shoichi; Mizutani, Kiyoshi; Kawashima, Takayoshi; and Nagawa, Akira, 4,664,333, Cl. 242-107.40A.

Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, to Fuji Photo Film Co., Ltd. Heat-developable light-sensitive material. 4,650,749, 3-17-87, Cl. 430-617.000.

Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, to Fuji Photo Film Co., Ltd. Heat-developable light-sensitive material. 4,657,848, 4-14-87, Cl. 430-617.000.

Sato, Kozo; Kitaguchi, Hiroshi; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat developable light sensitive material. 4,675,277, 6-23-87, Cl. 430-448.000.

Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; Tsukase, Masaaki; and Kato, Masatoshi, to Fuji Photo Film Co., Ltd. Method for formation of an image comprising a heating step. 4,696,887, 9-29-87, Cl. 430-203.000.

Sato, Kozo: *See*—
Aono, Toshiaki; Sato, Kozo; Mukunoki, Yasuo; and Nakamura, Koichi, 4,665,005, Cl. 430-203.000.
Hirai, Hiroyuki; Sato, Kozo; Yabuki, Yoshiharu; and Kawata, Ken, 4,705,737, Cl. 430-203.000.
Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,636,462, Cl. 430-617.000.
Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,640,892, Cl. 430-617.000.
Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,647,526, Cl. 430-353.000.
Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,668,615, Cl. 430-617.000.
Kitaguchi, Hiroshi; Kato, Masatoshi; Sato, Kozo; Takeuchi, Masasi; and Tsukase, Masaaki, 4,678,735, Cl. 430-203.000.
Kitaguchi, Hiroshi; Takeuchi, Masashi; Sato, Kozo; Tsukase, Masaaki; and Kato, Masatoshi, 4,678,739, Cl. 430-353.000.
Tsukase, Masaaki; Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; and Kato, Masatoshi, 4,695,525, Cl. 430-151.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,639,418, Cl. 430-617.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,640,891, Cl. 430-551.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,649,103, Cl. 430-570.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, 4,716,100, Cl. 430-570.000.

Sato, Kuniaki: *See*—
Ohta, Norio; Yanagishima, Fumiya; Kaihara, Toshikazu; Kishida, Akira; Sato, Kuniaki; and Ochiai, Masanobu, 4,713,154, Cl. 204-145.00R.

Sato, Kunihiko, to Toyota Jidosha Kabushiki Kaisha. Fuel injection control for internal combustion engine. 4,696,274, 9-29-87, Cl. 123-440.000.

Sato, Kunihiko: *See*—
Egami, Tsuneyuki; Saito, Tsutomu; Kohama, Tokio; Saito, Kimitaka; Sato, Kunihiko; and Takahashi, Hiroshi, 4,635,200, Cl. 364-431.050.
Saito, Tsutomu; Egami, Tsuneyuki; Kohama, Tokio; Saito, Kimitaka; Takahashi, Hiroshi; and Sato, Kunihiko, 4,633,840, Cl. 123-489.000.
Takahashi, Hiroshi; Tamura, Masanobu; and Sato, Kunihiko, 4,705,004, Cl. 123-491.000.

Sato, Kunio: *See*—
Sato, Masao; Ichimura, Masaaki; and Sato, Kunio, 4,713,115, Cl. 106-118.000.
Tadauchi, Masaharu; Inuzuka, Tatsuki; Hirane, Hideo; and Sato, Kunio, 4,654,677, Cl. 346-153.100.

Sato, Maki: *See*—
Narabu, Tadakuni; and Sato, Maki, 4,660,176, Cl. 365-183.000.

Sato, Makoto; and Matsuda, Shohei, to Honda Giken Kogyo Kabushiki Kaisha. Hydraulic braking pressure control apparatus for vehicles. 4,641,893, 2-10-87, Cl. 303-113.000.

Sato, Makoto, to Honda Giken Kogyo Kabushiki Kaisha. Anti-lock braking system. 4,668,022, 5-26-87, Cl. 303-100.000.

Sato, Makoto: *See*—
Iwasaki, Tadayoshi; Ariga, Keiki; and Sato, Makoto, 4,709,578, Cl. 73-49.300.
Ozeki, Khoji; Sawada, Masahiro; Kimura, Isami; Kataoka, Mikiko; Sato, Makoto; and Yamada, Toshihiro, 4,666,915, Cl. 514-272.000.
Tadachi, Akio; and Sato, Makoto, 4,652,839, Cl. 333-26.000.

Sato, Mamoru: *See*—
Sorimachi, Mitsuo; and Sato, Mamoru, 4,661,667, Cl. 200-314.000.

Sato, Masaaki; Tanaka, Susumu; Kaeriyama, Kyoji; and Suda, Yoshio, to Agency of Industrial Science & Technology; and Ministry of International Trade & Industry. Thiophene derivative polymer, polymer composition, and methods for manufacture thereof. 4,691,005, 9-1-87, Cl. 528-380.000.

Sato, Masaaki: *See*—
Sakuma, Kazuhito; Arita, Yoshinobu; Sato, Masaaki; and Awaya, Nobuyoshi, 4,660,068, Cl. 357-49.000.

Sato, Masafumi; and Matsushita, Tsuyoshi, to Tokyo Electric Co., Ltd. Rotary wheel printing apparatus with controllable hammer striking force. 4,653,945, 3-31-87, Cl. 400-144.200.

Sato, Masafumi, to Tokyo Electric Co., Ltd. Automatic paper feed control apparatus for a printing device. 4,663,722, 5-5-87, Cl. 364-478.000.

Sato, Masahiko; Kato, Kazutoshi; Ishibashi, Akira; and Matsushita, Tsurumasa, to Hitachi, Ltd. Stepping motor control system. 4,691,154, 9-1-87, Cl. 318-696.000.

Sato, Masahiro: *See*—
Takematsu, Tetsuo; Takeuchi, Yasutomo; Hiraishi, Kozo; Fujii, Toshikazu; Nishimula, Shoji; Suzuki, Motoyuki; Sato, Masahiro; and Hayashi, Hiroshi, 4,657,581, Cl. 71-118.000.

Sato, Masakazu, to NEC Corporation. Circuit arrangement capable of prohibiting an access to a part of a control memory on occurrence of an error in the part. 4,644,539, 2-17-87, Cl. 371-11.000.

Sato, Masaki, to Kabushiki Kaisha Toshiba. Method of manufacturing semiconductor device. 4,640,000, 2-3-87, Cl. 29-571.000.

Sato, Masamichi: *See*—
Yoda, Akira; Sato, Masamichi; and Ohtsuka, Shuichi, 4,656,356, Cl. 250-326.000.

Sato, Masanori: *See*—
Kasai, Tatsushi; Niikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,689,146, Cl. 210-197.000.
Kasai, Tatsushi; Niikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,710,215, Cl. 62-532.000.

Sato, Masao, to NOK Corporation. Sealing device for bearings. 4,699,526, 10-13-87, Cl. 384-486.000.

Sato, Masao; Ichimura, Masaaki; and Sato, Kunio, to Sumitomo Cement Co., Ltd. Method for demolishing durable structures. 4,713,115, 12-15-87, Cl. 106-118.000.

Sato, Masaru: *See*—
Tanaka, Shinya; and Sato, Masaru, 4,663,520, Cl. 250-205.000.

Sato, Masatoshi; and Akaike, Junichi, to Kioritz Corporation. Blade-brake clutch device for lawn mower. 4,667,786, 5-26-87, Cl. 192-17.00R.

Sato, Masatsune: *See*—
Buma, Mitsuo; Yuda, Sadayuki; Sato, Masatsune; and Okada, Mitsuo, 4,689,079, Cl. 106-35.000.

Sato, Masayonshi; and Harada, Noritake, to Tokyo Kikai Seisakusho Ltd. Mesh roller for printing press and method of fabrication. 4,637,310, 1-20-87, Cl. 101-426.000.

Sato, Masayoshi: *See*—
Tokunaga, Norikazu; Fukui, Hiroshi; Watanabe, Kouzou; Amano, Hisao; and Sato, Masayoshi, 4,692,643, Cl. 307-584.000.

Sato, Masayuki: *See*—
Kaneko, Chikara; and Sato, Masayuki, 4,672,132, Cl. 549-311.000.

Sato, Michitaka: *See*—
Kawasaki, Kiyohito; Sato, Michitaka; Koseki, Hiroyuki; and Matsunuma, Tamotsu, 4,715,419, Cl. 152-527.000.
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,673,692, Cl. 514-583.000.
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,695,581, Cl. 514-415.000.

Sato, Mieko: *See*—
Fukazawa, Ryutaro; Kodama, Susumu; and Sato, Mieko, 4,675,395, Cl. 536-103.000.

Sato, Mikio: *See*—
Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.
Oshima, Nobuyasu; Sato, Mikio; Kitajima, Katsuhiro; and Nakashima, Akifumi, 4,651,660, Cl. 112-225.000.

Sato, Minoru; and Kanai, Takayuki, to Tokyo Automatic Machinery Works, Ltd. Air extractor for bag making, filling and packaging machine. 4,633,654, 1-6-87, Cl. 53-511.000.

Sato, Minoru, to Tokyo Automatic Machinery Works, Ltd. Film feeding apparatus. 4,645,558, 2-24-87, Cl. 156-351.000.

Sato, Mitio: *See*—
Aoki, Akio; and Sato, Mitio, 4,698,873, Cl. 15-250.210.

Sato, Mitsuharu; Adachi, Sakashi; Kimura, Izumi; and Sugiyama, Shigeo, to Toshiba Kikai Kabushiki Kaisha. Automatic tool exchange apparatus. 4,670,965, 6-9-87, Cl. 29-568.000.

Sato, Mitsuhiko: *See*—
Okamura, Kiyohito; Sato, Mitsuhiko; and Hasegawa, Yoshio, 4,650,773, Cl. 501-35.000.

Sato, Mitsuo; and Kamidoi, Hiroshi, to Kabushiki Kaisha Toshiba. Control system for semiconductor substrate process line. 4,672,185, 6-9-87, Cl. 235-462.000.

Sato, Mitsuo: *See*—
Imanishi, Shozo; and Sato, Mitsuo, 4,677,908, Cl. 100-53.000.
Imanishi, Shozo; and Sato, Mitsuo, 4,711,169, Cl. 100-257.000.

Sato, Mitsuya; and Yomoda, Minoru, to Canon Kabushiki Kaisha. Alignment apparatus. 4,659,227, 4-21-87, Cl. 356-401.000.

Sato, Mitsuya; and Hamasaki, Bunei, to Canon Kabushiki Kaisha. Wafer prober. 4,677,474, 6-30-87, Cl. 358-101.000.

Sato, Mituo: *See*—
Shoji, Toru; Sugiyama, Mitsuru; Takezawa, Makoto; Akiba, Yuichi; Kaneko, Akira; and Sato, Mituo, 3,673,596, Cl. 427-262.000.

Sato, Moriyuki: *See*—
Sekine, Susumu; Mizukami, Tamio; Sato, Moriyuki; Itoh, Seiga; and Saito, Akiko, 4,689,402, Cl. 530-399.000.

Sato, Motoharu, to Sanden Corporation. Refrigeration circuit. 4,633,674, 1-6-87, Cl. 62-197.000.

Sato, Motoharu, to Sanden Corporation. Device for controlling the capacity of a variable capacity compressor. 4,633,675, 1-6-87, Cl. 62-208.000.

Sato, Naoki; Kamo, Yoshihisa; Katoh, Yasuhiro; Kosuge, Minoru; and Arai, Shinichi, to Hitachi, Ltd. Circuit for detecting variation of resistance of a variable-resistance element. 4,716,806, 12-29-87, Cl. 307-296.000R.

Sato, Naoki. *See*—
Kamo, Yoshihisa; Sato, Naoki; Kitada, Masahiro; and Takeura, Tooru, 4,663,684, Cl. 360-113.000.

Sato, Noboru, to Sony Corporation. Method for producing magnetic medium. 4,640,755, 2-3-87, Cl. 204-197.200.

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Iwase, Nobuo; Anzai, Kazuo; Shimozaki, Kazuo; Tsuge, Akihiko; Saitoh, Kazutaka; Iyogi, Kiyoshi; Sato, Noboru; and Kasori, Mitsuo, 4,659,611, Cl. 428-209.000.
Kojima, Tadao; Kageyama, Shunji; Okada, Minoru; Ohata, Isao; and Sato, Noboru, 4,690,932, Cl. 514-337.000.

Sato, Nobukatsu; Kurauyama, Haruo; and Agou, Masanobu, to Yamanouchi Seiyaku Kabushiki Kaisha. 2-(4-pyridylaminomethyl)-benzimidazole derivatives having antiviral activity. 4,714,764, 12-22-87, Cl. 546-271.000.

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Kaneyasu, Masayoshi; Arima, Hideo; Ito, Mitsuko; Iwanaga, Shoichi; Sato, Nobuo; Noro, Takanobu; Ikagami, Akira; and Isogai, Tokio, 4,638,443, Cl. 364-497.000.

Sato, Nobuyuki; Ujie, Kazuaki; Terasawa, Masaaki; and Nabetani, Shinji, to Hitachi, Ltd.; and Hitachi Microcomputer Engineering, Ltd. Semiconductor integrated circuit device. 4,692,904, 9-8-87, Cl. 365-226.000.

Sato, Nobuyuki. *See*—
Honma, Hideo; and Sato, Nobuyuki, 4,651,312, Cl. 369-10.000.
Matsubayashi, Hiroshi; Hirota, Kazumi; Iwamoto, Hisao; Fujiwara, Tamio; Sato, Nobuyuki; and Katsura, Tadahiko, 4,686,152, Cl. 428-607.000.

Sato, Noria. *See*—
Zenbayashi, Michio; and Sato, Noria, 4,649,208, Cl. 556-413.000.

Sato, Norikazu. *See*—
Kimura, Nobuhiro; Sato, Norikazu; Takagi, Yutaka; and Sugano, Tomoharu, 4,689,639, Cl. 346-76.0PH.

Sato, Noriko; and Suzuki, Masayuki, to Kabushiki Kaisha Toshiba. Method of determining degree of embrittlement of low alloy steel. 4,715,218, 12-29-87, Cl. 73-86.000.

Sato, Norio, to Toshiba Silicone Company, Ltd. Curable polyorganosiloxane composition. 4,701,503, 10-20-87, Cl. 525-478.000.

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Seki, Yasukazu; Sato, Noritada; and Yabe, Masaya, 4,692,782, Cl. 357-29.000.

Sato, Osamu, to NEC Corporation. Synchronous data receiver circuit. 4,686,690, 8-11-87, Cl. 375-114.000.

Sato, Osamu. *See*—
Tanaka, Kazumoto; Mashimo, Tohru; Sato, Osamu; and Kobayashi, Toyohiko, 4,639,868, Cl. 364-420.000.
Yamada, Yonekazu; Sato, Osamu; and Tanaka, Takemi, 4,670,207, Cl. 264-248.000.

Sato Pharmaceutical Research Institute Ltd.: *See*—
Sato, Haruo, 4,634,557, Cl. 540-145.000.

Sato, Ray S., to Magnetic Massage Company. Massage device. 4,691,693, 9-8-87, Cl. 128-24.100.

Sato, Reijiro. *See*—
Minonishi, Kunaki; and Sato, Reijiro, 4,716,094, Cl. 430-284.000.

Sato, Rejiro. *See*—
Suzuki, Akira; Mizuta, Yukio; Sato, Rejiro; and Shimizu, Kunio, 4,688,156, Cl. 362-354.000.

Sato, Ryo. *See*—
Haga, Toru; Nagano, Eiki; Takase, Masayuki; and Sato, Ryo, 4,668,278, Cl. 71-92.000.
Haga, Toru; Nagano, Eiki; Sato, Ryo; and Morita, Kouichi, 4,670,042, Cl. 71-92.000.
Nagano, Eiki; Haga, Toru; Sato, Ryo; and Morita, Kouichi, 4,640,707, Cl. 71-96.000.

Sato, Ryoichi; and Mimoto, Toshio, to Sharp Kabushiki Kaisha. Semiconductor circuit of MOS transistors for generation of reference voltage. 4,641,081, 2-3-87, Cl. 323-313.000.

Sato, Ryosuke. *See*—
Masuda, Kasaku; Sato, Ryosuke; Ishii, Fumio; Kimura, Kazuhiko; and Ninomiya, Hidetaka, 4,692,529, Cl. 546-141.000.

Sato, Ryuichi, to Omron Tateisi Electronics Co. Reed relay. 4,639,702, 1-27-87, Cl. 335-153.000.

Sato, Ryuichi; Taniguchi, Tsutomu; and Ohba, Masatoshi, to Omron Tateisi Electronics Co. Relay with actuator which actuates bistable switching mechanism. 4,654,553, 3-31-87, Cl. 310-316.000.

Sato, Ryuichi. *See*—
Ohba, Masatoshi; Sato, Ryuichi; and Taniguchi, Tsutomu, 4,654,555, Cl. 310-332.000.
Ohba, Masatoshi; Sato, Ryuichi; and Taniguchi, Tsutomu, 4,658,155, Cl. 307-154.000.

Sato, Seiichiro. *See*—
Oba, Hiroki; Aoki, Seiichi; Nimura, Akira; and Sato, Seiichiro, 4,690,484, Cl. 439-736.000.

Sato, Shigeaki. *See*—
Tachida, Hiroki; Sato, Takane; and Sato, Shigeaki, 4,641,565, Cl. 84-431.000.

Sato, Shigenobu. *See*—
Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; and Sato, Shigenobu, 4,656,733, Cl. 29-602.000R.
Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; and Sato, Shigenobu, 4,658,226, Cl. 335-127.000.

Sato, Shigeru; and Ozawa, Takashi, to Fuji Xerox Co. Ltd. Contact type document reading device with uniform line-to-line conductor capacitance. 4,680,477, 7-14-87, Cl. 250-578.000.

Sato, Shigeru. *See*—
Arai, Yoshinao; Takahashi, Shino; Oikawa, Eigo; Sato, Shigeru; and Kobayashi, Hideaki, 4,706,187, Cl. 364-191.000.
Fuji, Hideji; Hayakawa, Takayuki; Sato, Shigeru; and Yanagihara, Enchi, 4,640,729, Cl. 156-257.000.

Sato, Shigetada. *See*—
Ogawa, Ryota; and Sato, Shigetada, 4,660,940, Cl. 350-458.000.

Sato, Shingo. *See*—
Ichijima, Seiji; Sato, Shingo; Ono, Mitsunori; and Sasaki, Nobuo, 4,652,516, Cl. 430-544.000.

Sato, Shinichi. *See*—
Arai, Masatoshi; Inoue, Takeo; and Sato, Shinichi, 4,652,661, Cl. 549-214.000.
Inoue, Yoshio; Arai, Masatoshi; and Sato, Shinichi, 4,689,361, Cl. 524-394.000.
Inoue, Yoshio; Arai, Masatoshi; Sato, Shinichi; and Yokoi, Koji, 4,695,617, Cl. 528-32.000.
Nakajima, Masayuki; Sato, Shinichi; Tokui, Akira; Kawai, Akira; Nagatomo, Masao; and Ozaki, Hiroji, 4,702,796, Cl. 156-653.000.
Noh, Akihiko; Sato, Shinichi; Kakuda, Itosuke; and Kano, Shigeyuki, 4,701,994, Cl. 29-568.000.

Sato, Shinji; and Goto, Gensuke, to Fujitsu Limited. Masterslice semiconductor device. 4,668,972, 5-26-87, Cl. 357-42.000.

Sato, Shinobu. *See*—
Nio, Satoru; Hamashima, Toyoji; and Sato, Shinobu, 4,677,276, Cl. 219-125.11.

Sato, Shinsaku; and Yamagata, Ichiro, to Tokyo Shibaura Denki Kabushiki Kaisha. Methods of controlling operation of multistage hydraulic machines. 4,640,664, 2-3-87, Cl. 415-1.000.

Sato, Shiro. *See*—
Tsuetaki, George F.; and Sato, Shiro, 4,693,572, Cl. 351-161.000.

Sato, Shizuo. *See*—
Imaizumi, Mamoru; Ishikawa, Yujiro; Ohta, Eiichi; Sato, Shizuo; and Matsushita, Kazuyuki, 4,647,765, Cl. 250-227.000.

Sato, Shunkichi. *See*—
Tamamizu, Teruyasu; Sato, Kichihei; Tanaka, Takashi; and Sato, Shunkichi, 4,710,428, Cl. 428-408.000.

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isomae, Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, to SS Pharmaceutical Co., Ltd. 1,7-Naphthyridine derivatives and pharmaceutical compositions. 4,659,710, 4-21-87, Cl. 514-234.000.

Sato, Susumu; and Okamoto, Keizo, to Bridgestone Corporation. Tire tread rubber composition. 4,678,830, 7-7-87, Cl. 524-495.000.

Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isomae, Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, to SS Pharmaceutical Co., Ltd. 1,7-Naphthyridine derivatives and medicinal preparations containing same. 4,690,924, 9-1-87, Cl. 514-237.000.

Sato, Susumu; and Arashida, Toshio, to NCR Corporation. Automatic document page turning apparatus. 4,700,497, 10-20-87, Cl. 40-531.000.

Sato, Susumu. *See*—
Nakamura, Takehiro; Sato, Susumu; Hattori, Tadashi; Nabeta, Teiichi; and Kato, Minoru, 4,678,921, Cl. 250-574.000.

Sato, Tadahisa; Kawagishi, Toshio; and Furutachi, Nobuo, to Fuji Photo Film Co., Ltd. Process for producing pyrazolo[1,5-b][1,2,4]triazole derivatives. 4,705,863, 11-10-87, Cl. 548-262.000.

Sato, Tadao; and Ishii, Toshihiko, to National Institute for Researches in Inorganic Materials. Process for preparing rhombohedral system boron nitride using $NaBH_4$ and NH_4Cl. 4,714,599, 12-22-87, Cl. 423-290.000.

Sato, Tadashi. *See*—
Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; Kurosawa, Yukio; and Hakamata, Yoshimi, 4,713,585, Cl. 315-111.810.
Ohno, Yasunori; Kurosawa, Tomoe; Sato, Tadashi; and Ohshita, Youichi, 4,716,491, Cl. 361-230.000.
Sugiura, Susumu; and Sato, Tadashi, 4,659,210, Cl. 355-14.00R.
Takahashi, Teruomi; and Sato, Tadashi, 4,713,698, Cl. 358-296.000.

Sato, Takahiro. *See*—
Kobayashi, Masaru; Koyanagi, Hironobu; and Sato, Takahiro, 4,649,005, Cl. 264-101.000.

Sato, Takane, to Fuji Xerox Co., Ltd. Circuit for conference telephony. 4,661,949, 4-28-87, Cl. 370-62.000.

Sato, Takane. *See*—
Tachida, Hiroki; Sato, Takane; and Sato, Shigeaki, 4,641,565, Cl. 84-431.000.

Sato, Takanori, to Shimizu Construction Co., Ltd. Earthquake insulating building structure. 4,707,956, 11-24-87, Cl. 52-167.000.

Sato, Takao: *See*—
Arita, Setsuo; and Sato, Takao, 4,707,621, Cl. 307-441.000.
Kinoshita, Toshiyuki; Arai, Toshiaki; Sato, Takao; Kubo, Takashige; Yoshizawa, Yasufumi; and Mori, Hiromichi, 4,703,422, Cl. 364-200.000.

Sato, Takashi; and Yamada, Toshio, to Nippon Steel Corporation. Method for improving the magnetic properties of Fe-based amorphous-alloy thin strip. 4,685,980, 8-11-87, Cl. 148-304.000.

Sato, Takashi; Kubo, Emiko; and Kayashima, Takako, to Fujirebio Kabushiki Kaisha. Assaying anti-TP IgM antibodies for syphilis diagnosis. 4,716,108, 12-29-87, Cl. 435-7.000.

Sato, Takashi: *See*—
Aoyagi, Yoshiro; Kimura, Toshiyuki; Niinuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Kenichi; Haeno, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77.100.
Kawaguchi, Takeo; and Sato, Takashi, 4,651,117, Cl. 335-216.000.

Sato, Takateru: *See*—
Shiba, Hario; Sato, Takateru; Tanaka, Kimio; and Sakata, Yoshiya, 4,685,128, 4-7-87, Cl. 360-132.000.

Sato, Take: *See*—
Shimomura, Kenji; Kouketsu, Shigeaki; Okuyama, Toru; and Sato, Take, 4,696,952, Cl. 521-107.000.

Sato, Takehiko: *See*—
Nate, Tatsuo; Oka, Koichi; and Sato, Takehiko, 4,689,073, Cl. 75-0.5BA.

Sato, Takeo, to Matsushita Electric Industrial Co., Ltd. Electrical discharge machining electrode for forming minute holes in a workpiece and electrical discharge machining apparatus employing such an electrode. 4,654,498, 3-31-87, Cl. 219-69.00E.

Sato, Takeru: *See*—
Yokozeki, Kenzo; Majima, Eiji; Hirose, Yoshiteru; Sato, Takeru; and Yukawa, Toshihide, 4,666,838, Cl. 435-70.000.

Sato, Takeshi: *See*—
Kobo, Kazuo; Morotomi, Noriaki; and Sato, Takeshi, 4,673,979, Cl. 358-142.000.
Kunugi, Yoshiro; Odaka, Makoto; Sato, Takeshi; Sasaki, Yoshio; and Tokumo, Akio, 4,644,292, Cl. 330-279.000.
Kunugi, Yoshiro; Tokumo, Akio; Yoshimi, Toshikazu; Kato, Shinjiro; Sasaki, Yoshio; Odaka, Makoto; and Sato, Takeshi, 4,648,117, Cl. 381-86.000.
Sakashita, Seiji; Sato, Takeshi; Nagai, Hiroyuki; Kubo, Kazuhiko; and Usui, Akira, 4,677,692, Cl. 455-319.000.
Sasada, Tetsuo; Sato, Takeshi; Urushidani, Haruo; Hisano, Katsukuni; Kaneko, Ryoichi; Ikeuchi, Kazuo; and Tsuji, Kunio, 4,662,820, Cl. 415-170.00R.

Sato, Takuro: *See*—
Fukasawa, Atsushi; Hoseda, Kenichiro; Sato, Takuro; and Yoshida, Tatsumasa, 4,692,725, Cl. 333-203.000.
Fukasawa, Atsushi; Sato, Takuro; Akiyama, Haruhiko; and Kawabe, Manabu, 4,701,923, Cl. 371-41.000.

Sato, Takushi: *See*—
Ibi, Akira; Sato, Takushi; Yamaguchi, Akihiro; Takahashi, Shigeru; Shishido, Shigeyuki; Tamai, Shoji; and Nakajima, Hisai, 4,687,836, Cl. 528-353.000.

Sato, Takuso; and Ichida, Nobuyuki, to Fujitsu Limited. Apparatus for observing sound field of ultrasonic wave. 4,691,569, 9-8-87, Cl. 73-596.000.

Sato, Tatsuo; and Takimoto, Shingo, to Shimadzu Corporation. Thermal printer/plotter. 4,656,489, 4-7-87, Cl. 346-76.0PH.

Sato, Teiji: *See*—
Usui, Koichi; Sato, Teiji; and Tanaka, Masanori, 4,681,749, Cl. 423-326.000.

Sato, Terumi: *See*—
Iwabuchi, Takeshi; Kawahara, Masao; Kamiyama, Sakae; and Sato, Terumi, 4,657,996, Cl. 526-127.000.

Sato, Teruo: *See*—
Hoshino, Shigeru; and Sato, Teruo, 4,703,563, Cl. 33-227.000.

Sato, Tetsuo: *See*—
Hasegawa, Kenji; Sato, Tetsuo; and Iwanami, Teruo, 4,713,266, Cl. 427-412.500.
Okamura, Hiroshi; Nakatani, Kenji; and Sato, Tetsuo, 4,697,041, Cl. 136-244.000.
Watanabe, Kazuo; and Sato, Tetsuo, 4,639,795, Cl. 360-62.000.

Sato, Toru; and Moriya, Kozo, to Sanyo Denshikogyo Co. Ltd. Synchronized feed type oxygen concentrator for use in an open breathing system. 4,648,395, 3-10-87, Cl. 128-204.230.

Sato, Toru; and Asano, Yoshihiro, to Ikeda Bussan Co., Ltd. Hollow plate made of synthetic resin. 4,670,324, 6-2-87, Cl. 428-178.000.

Sato, Toru; Okazaki, Naoto; and Fujii, Katsumasa, to Tottori University. Breath-synchronized concentrated-oxygen supplier. 4,681,099, 7-21-87, Cl. 128-204.230.

Sato, Toru; Okazaki, Naoto; Hasegawa, Toshihisa; Fujii, Katsumasa; and Takano, Kazukiyo, to Tottori University. Breath synchronized gas-insufflation device and method therefor. 4,686,974, 8-18-87, Cl. 128-204.230.

Sato, Toshiaki; Yamauchi, Junnosuke; and Okaya, Takuji, to Kuraray Co., Ltd. Polymer composition comprising a protein and a block copolymer which contains a polyvinyl alcohol polymer unit and an ionic polymer unit. 4,638,024, 1-20-87, Cl. 524-22.000.

Sato, Toshiaki; Yamauchi, Junnosuke; and Okaya, Takuji, to Kuraray Co., Ltd. Photosensitive ethylenically unsaturated composition containing a vinyl alcohol polymer having a thiol group. 4,654,294, 3-31-87, Cl. 430-281.000.

Sato, Toshiaki; Yamauchi, Junnosuke; and Okaya, Takuji, to Kuraray Co., Ltd. Block copolymer based on polymer having thiol end group and linked by divalent sulfur. 4,699,950, 10-13-87, Cl. 525-185.000.

Sato, Toshiaki; Mori, Hisako; Horio, Yashuhiko; Tabuchi, Kastumi; Matsumoto, Nobuo; and Nishii, Kazuhiko, to Matsushita Electric Industrial Co., Ltd. Power supply module. 4,712,160, 12-8-87, Cl. 361-388.000.

Sato, Toshiaki: *See*—
Yamamoto, Susumu; Sato, Toshiaki; Ikai, Takasi; Oguti, Toshiko; and Nawamaki, Tsutomu, 4,668,277, Cl. 71-92.000.
Yamamoto, Susumu; Sato, Toshiaki; Ikai, Takasi; Nawamaki, Tsutomu; and Oguti, Toshiko, 4,689,417, Cl. 548-376.000.

Sato, Toshifumi, to NEC Corporation. Data encoding/decoding circuit. 4,689,606, 8-25-87, Cl. 340-347.0DD.

Sato, Toshifumi, to NEC Corporation. Speech-adaptive predictive coding system having reflected binary encoder/decoder. 4,710,960, 12-1-87, Cl. 381-47.000.

Sato, Toshifumi: *See*—
Kimura, Katsuji; Kasai, Yoshihiko; Yokoyama, Yukio; Yamasaki, Kopi; and Sato, Toshifumi, 4,680,553, Cl. 330-2.000.

Sato, Toshio: *See*—
Kobayashi, Tadashi; and Sato, Toshio, 4,689,447, Cl. 178-18.000.

Sato, Toshiro: *See*—
Takao, Hisoka; Sato, Toshiro; Saito, Seiichi; and Hayashi, Toshinari, 4,707,622, Cl. 307-448.000.

Sato, Toshiyuki; and Matsuda, Atsushi, to Yamaha Hatsudoki Kabushiki Kaisha. Rear wheel steering device for motorcycles. 4,650,022, 3-17-87, Cl. 180-219.000.

Sato, Toshiyuki: *See*—
Matsuda, Atsushi; and Sato, Toshiyuki, 4,650,021, Cl. 180-219.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,650,023, Cl. 180-219.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,650,024, Cl. 180-219.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,655,311, Cl. 180-219.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,662,469, Cl. 180-219.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,664,214, Cl. 180-219.000.

Sato, Tsunchiko: *See*—
Asai, Takamitsu; Akashi, Goro; Kitamoto, Tatsuji; Chikamasa, Hiroshi; and Sato, Tsunehiko, 4,678,682, Cl. 427-48.000.
Shibata, Norio; Takeda, Hideo; Sato, Tsunehiko; and Tanaka, Yasunori, 4,681,062, Cl. 118-410.000.

Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, to Ricoh Co., Ltd. Optical information recording medium. 4,656,121, 4-7-87, Cl. 430-495.000.

Sato, Tsutomu; Murayama, Noboru; and Sato, Key, to Ricoh Company, Ltd. Digital scanner. 4,694,353, 9-15-87, Cl. 358-283.000.

Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, to Ricoh Co., Ltd. Optical information recording medium. 4,714,667, 12-22-87, Cl. 430-270.000.

Sato, Tsutomu: *See*—
Abe, Michiharu; Umehara, Masaakira; Sato, Tsutomu; Oba, Hideaki; Ueda, Yutaka; and Kumikane, Makoto, 4,696,892, Cl. 430-495.000.
Ito, Masahiro; Murayama, Noboru; Suziku, Koichi; Sato, Key; and Sato, Tsutomu, 4,698,778, Cl. 364-518.000.

Sato, Yasuaki: *See*—
Ikegami, Yoshiki; Matsumoto, Fumio; Sato, Yasuaki; and Hayakawa, Yoshio, 4,663,711, Cl. 364-900.000.
Ikegami, Yoshiki; Sato, Yasuaki; and Ishimaru, Mitsutoshi, 4,677,585, Cl. 364-900.000.

Sato, Yasuhisa; Yamada, Yasuyuki; and Nakayama, Hiroki, to Canon Kabushiki Kaisha. Small size zoom lens. 4,659,186, 4-21-87, Cl. 350-423.000.

Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Ozumu, Kouji, to Canon Kabushiki Kaisha. Vari-focal objective lens of short total length. 4,679,913, 7-14-87, Cl. 350-423.000.

Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Ozumi, Kouji, to Canon Kabushiki Kaisha. Beam splitter for changing optical paths small tilt. 4,697,882, 10-6-87, Cl. 350-287.000.

Sato, Yasuhisa: *See*—
Nakayama, Hiroki; Sato, Yasuhisa; and Yamada, Yasuyuki, 4,695,134, Cl. 350-432.000.
Ozumi, Kouji; Sato, Yasuhisa; Yamada, Yasuyuki; and Nakayama, Hiroki, 4,652,091, Cl. 350-427.000.
Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Ozumi, Kouji, 4,643,536, Cl. 350-422.000.
Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Ozumi, Kouji, 4,702,581, Cl. 354-126.000.
Yamada, Yasuyuki; Fujibayashi, Kazuo; Sato, Yasuhisa; and Yokota, Hideo, 4,715,692, Cl. 350-422.000.

Sato, Yasuji: *See*—
Nakayama, Yasunobu; and Sato, Yasuji, 4,636,588, Cl. 379-362.000.
Nakayama, Yasunobu; and Sato, Yasuji, 4,645,882, Cl. 379-387.000.

Sato, Yasukazu; Matsuda, Kenichi; Ozaki, Hiromi; Suzuka, Teruo; and Yamane, Mamoru, to Nippon Mining Co., Ltd. Process for producing alkanesulfonic acids. 4,643,813, 2-17-87, Cl. 204-157.780.

Sato, Yasunori. Two-wheeled vehicle with hydraulic transmission. 4,684,143, 8-4-87, Cl. 280-216.000.

Sato, Yasunori: *See*—
Shito, Masahiko; and Sato, Yasunori, 4,676,941, Cl. 264-247.000.

Sato, Yasuo: *See*—
Mitsudera, Hiroyuki; Konishi, Kazuo; and Sato, Yasuo, 4,640,929, Cl. 514-436.000.

Sato, Yasushi; and Goto, Masahiro, to Canon Kabushiki Kaisha. Image recording apparatus. 4,652,110, 3-24-87, Cl. 355-3.0FU.

Sato, Yasushi: *See*—
Hara, Toshitami; Sato, Yasushi; Takatori, Yasushi; and Shirato, Yoshiaki, 4,707,705, Cl. 346-75.000.
Nagai, Toshinari; Masui, Takatoshi; Sato, Yasushi; and Katsuno, Toshiyasu, 4,707,985, Cl. 60-274.000.
Oonaka, Hidemi; Baika, Toyokazu; Shibata, Yoshiaki; Horii, Kingo; Sato, Yasushi; and Akiyama, Tomojiro, 4,656,992, Cl. 123-559.000.

Sato, Yo, to Kabushiki Kaisha Sato. Thermal printing cassette mountable in a thermal printer. 4,647,235, 3-3-87, Cl. 400-120.000.

Sato, Yo, to Kabushiki Kaisha Sato. Unit type thermal label printer. 4,706,096, 11-10-87, Cl. 346-76.0PH.

Sato, Yoichi: *See*—
Aoki, Takashi; Sato, Yoichi; and Fukuda, Yukihiro, 4,686,872, Cl. 74-869.000.
Nishikawa, Masao; Aoki, Takashi; Sato, Yoichi; and Yoshizawa, Hiroshi, 4,643,049, Cl. 74-868.000.
Nishikawa, Masao; Aoki, Takashi; and Sato, Yoichi, 4,650,047, Cl. 192-3.310.
Nishikawa, Masao; Aoki, Takashi; and Sato, Yoichi, 4,660,442, Cl. 74-869.000.
Nishikawa, Masao; Aoki, Takashi; Sato, Yoichi; and Fukuda, Yukihiro, 4,688,530, Cl. 123-198.00R.
Nishikawa, Masao; Sakurai, Yoshimi; Aoki, Takashi; and Sato, Yoichi, 4,693,347, Cl. 192-3.300.

Sato, Yoshiaki; and Suzuki, Hisao, to Toray Industries, Inc. Thick and thin fiber having grooves on its surface and process for producing the same. 4,639,397, 1-27-87, Cl. 428-397.000.

Sato, Yoshiaki: *See*—
Kutsuma, Teruo; Ikawa, Hiroshi; and Sato, Yoshiaki, 4,672,068, Cl. 514-336.000.

Sato, Yoshihiko; Ohishi, Fujio; Hongu, Tatsuya; Suzuki, Toshio; and Ogawa, Yoshihiko, to Japanese National Railways; and Nisshinbo Industries, Inc. Resilient coat for tie of direct-connection type track. 4,652,495, 3-24-87, Cl. 428-425.500.

Sato, Yoshihiko; and Yamamoto, Nobuaki, to New Japan Radio Co., Ltd. Cathode for magnetron. 4,686,413, 8-11-87, Cl. 313-346.00R.

Sato, Yoshihiko: *See*—
Saito, Cyuichi, and Sato, Yoshihiko, 4,666,028, Cl. 198-335.000.

Sato, Yoshihiro: *See*—
Shirato, Kozo; Kawashima, Kazuyasu; and Sato, Yoshihiro, 4,651,087, Cl. 324-71.400.

Sato, Yoshihisa; Hirao, Tetsuji; Magara, Tsunao; and Shiratori, Kohya, to Shiseido Company, Ltd. Anthranilic acid ester derivatives and antiinflammatory and analgetic external preparations containing the same. 4,666,929, 5-19-87, Cl. 514-357.000.

Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; Suzuki, Atsushi; and Sugiura, Kengo, to Nippondenso Co., Ltd. Heat-wire type airflow quantity measuring apparatus. 4,680,964, 7-21-87, Cl. 73-204.000.

Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; and Suzuki, Atsushi, to Nippondenso Co., Ltd. Apparatus for controlling engine. 4,683,858, 8-4-87, Cl. 123-486.000.

Sato, Yoshihisa: *See*—
Ina, Katsuhiro, Sato, Yoshihisa; Kinugawa, Masumi; Suzuki, Atsushi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; Yamada, Toshitaka; and Abe, Tomoaki, 4,665,745, Cl. 73-204.000.
Kohata, Toshihide; Miyazaki, Masaru; Sato, Yoshihisa; and Ikeda, Junichi, 4,697,408, Cl. 57-264.000.

Sato, Yoshikuni, to NEC Corporation. Information processing apparatus having a sequence control function. 4,674,963, 6-16-87, Cl. 364-900.000.

Sato, Yoshimi, to Nissan Motor Company, Limited. Release system for seat occupant in vehicle. 4,664,413, 5-12-87, Cl. 280-801.000.

Sato, Yoshimi, to Nissan Motor Company, Limited. Release system for seat occupant in vehicle. 4,691,939, 9-8-87, Cl. 280-806.000.

Sato, Yoshimitsu; Ohtsuka, Shuichi; Kimura, Akinori; Yoda, Akira; Kato, Keishi; and Takahashi, Isoji, to Fuji Photo Film Co., Ltd. Process head for electrophotographic apparatus. 4,697,912, 10-6-87, Cl. 355-3.00R.

Sato, Yoshinori; Tsuchiya, Yukio; and Fujimoto, Keiji, to Lotte Co., Ltd. Soft starchy chewing gum. 4,707,363, 11-17-87, Cl. 426-3.000.

Sato, Yoshinori: *See*—
Ueda, Toshio; Sato, Yoshinori; and Harada, Susumu, 4,680,360, Cl. 526-310.000.

Sato, Yoshio, to Kabushiki Kaisha Sato. Label strip. 4,642,256, 2-10-87, Cl. 428-42.000.

Sato, Yoshio: *See*—
Morita, Takeshi; Okuda, Takio; Machida, Kazumichi; Sato, Yoshio; and Nakamura, Yoshitaka, 4,700,041, Cl. 219-96.000.

Sato, Yoshitsugu; and Furukawa, Satoshi, to Brother Kogyo Kabushiki Kaisha. Coordinate-data input device for CRT display having cursor travel control means. 4,698,626, 10-6-87, Cl. 340-710.000.

Sato, Yoshiyuki: *See*—
Kawade, Hideji; Takahashi, Hideaki; Sato, Yoshiyuki; and Urayama, Yuji, 4,640,990, Cl. 379-77.000.

Sato, Youji: *See*—
Hirano, Seiji; and Sato, Youji, 4,700,913, Cl. 248-73.000.

Sato, Yuichi, to Canon Kabushiki Kaisha. Time base conversion apparatus. 4,636,837, 1-13-87, Cl. 358-21.00R.

Sato, Yuichi; Tsunekawa, Tokuichi; and Kawabata, Takashi, to Canon Kabushiki Kaisha. Distance measuring devices and light integrators therefor. 4,678,323, 7-7-87, Cl. 365-4.000.

Sato, Yuichi: *See*—
Hiratsuka, Kazuya; Sato, Yuichi; Aoki, Yoshiyasu; Yui, Hiroshi; Miyabayashi, Mitsutaka; and Itsubo, Akira, 4,702,977, Cl. 429-194.000.
Kawabata, Takashi; Sato, Yuichi; Tsunekawa, Tokuichi; and Matsumura, Susumu, 4,681,432, Cl. 356-4.000.
Kawamura, Hideaki; Sakurada, Nobuaki; Sato, Yuichi; and Watanabe, Yoshitaka, 4,713,701, Cl. 358-298.000.
Tsunekawa, Tokuichi; Sato, Yuichi; Kawabata, Takashi; and Matsumura, Susumu, 4,642,451, Cl. 250-201.000.
Tsunekawa, Tokuichi; Kawabata, Takashi; Sato, Yuichi; and Matsumura, Susumu, 4,644,149, Cl. 250-214.00A.
Tsunekawa, Tokuichi; Sato, Yuichi; and Kawabata, Takashi, 4,672,189, Cl. 250-201.000.
Tsunekawa, Tokuichi; Sato, Yuichi; Kawabata, Takashi; and Matsumura, Susumu, 4,687,914, Cl. 250-201.000.
Tsunekawa, Tokuichi; and Sato, Yuichi, 4,712,136, Cl. 358-213.150.
Watanabe, Yoshitaka; Sakurada, Nobuaki; Kawamura, Hideaki; and Sato, Yuichi, 4,713,746, Cl. 346-1.100.

Sato, Yuji: *See*—
Yagasaki, Eriko; Kanda, Motoya; Mitsuyasu, Kiyoshi; and Sato, Yuji, 4,696,873, Cl. 429-59.000.

Sato, Yukihiko: *See*—
Nomura, Hirokazu; Sato, Yukihiko; Morishige, Eiji; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,672,173, Cl. 219-125.100.
Nomura, Hirokazu; Sato, Yukihiko; Nishi, Yasuhiko; Higurashi, Mizuho; and Mori, Saburo, 4,686,341, Cl. 219-54.000.

Sato, Yukimasa: *See*—
Yatsuo, Tsutomu; Nagano, Takahiro; Oikawa, Saburo; Sato, Yukimasa; Kimura, Shin; and Fukui, Hiroshi, 4,651,189, Cl. 357-38.000.

Sato, Yukio, to Canon Kabushiki Kaisha. Image data compression apparatus. 4,701,803, 10-20-87, Cl. 358-260.000.

Sato, Yukio; and Ichikawa, Yoshio, to Nippon Electric Co., Ltd. Pager receiver for giving at least one of extraordinary tones and extraordinary displays. 4,704,608, 11-3-87, Cl. 340-825.440.

Sato, Yukio: *See*—
Haruta, Kenyu; Wakata, Hitoshi; Sato, Yukio; Nagai, Haruhiko; Nakatani, Hajime; and Kita, Hideki, 4,686,682, Cl. 372-87.000.
Tomosada, Masahiro; Miyata, Masanori; Adachi, Hideki; and Sato, Yukio, 4,674,863, Cl. 355-14.00E.
Yagasaki, Toshiaki; Masuda, Shunichi; and Sato, Yukio, 4,669,862, Cl. 355-14.00R.

Sato, Yusho; and Koizumi, Koji, to Fuji Electric Company, Ltd. Programmable controller and method. 4,704,704, 11-3-87, Cl. 364-900.000.

Sato, Yutaka: *See*—
Kondo, Toshio; and Sato, Yutaka, 4,653,504, Cl. 128-660.000.

Sato, Yuzo: *See*—
Morinaga, Hiroshi; Kamiyama, Sakae; and Sato, Yuzo, 4,643,966, Cl. 502-104.000.

Sato, Yuzuru: *See*—
Yazaki, Minoru; and Sato, Yuzuru, 4,701,026, Cl. 350-333.000.

Satoh, Arimasa: *See*—
Akabane, Toshiaki; and Satoh, Arimasa, 4,645,569, Cl. 203-19.000.

Satoh, Atsushi: *See*—
Fujiwara, Shinobu; Satoh, Atsushi; Hattori, Tetsuya; and Satoh, Junichi, 4,692,422, Cl. 501-136.000.

Satoh, Eiji; Iwakura, Mararu; Kamimura, Hiroto; Nishi, Yasunori; and Kojima, Masamitsu, to Oiles Industry Co., Ltd. Thrust ball bearing unit. 4,699,530, 10-13-87, Cl. 384-609.000.

Satoh, Fumio: *See*—
Tatsuoka, Toshio; Suzuki, Kenji; Imao, Kayoko; Satoh, Fumio; Miyano, Seiji; and Sumoto, Kunihiro, 4,713,453, Cl. 544-60.000.

Satoh, Haruhiko; Tanabe, Hisaki; and Umemoto, Hirotoshi, to Nippon Paint Co., Ltd. Epoxy resinous varnish its preparation and coating composition containing the same. 4,680,348, 7-14-87, Cl. 525-528.000.

Satoh, Hidetaka; Kurosawa, Hideyuki; Kamijoh, Yoshiaki; and Iyomonji, Hiromichi, to Nippon Telegraph and Telephone Corporation. Protector circuit. 4,695,916, 9-22-87, Cl. 361-56.000.

Satoh, Hiroshi: *See*—
Miura, Hirohisa; Satoh, Hiroshi; Natsume, Toshio; and Katagiri, Hidenori, 4,695,319, Cl. 75-63.000.
Shimogori, Kazutoshi; Satoh, Hiroshi; and Kamikubo, Fumio, 4,634,478, Cl. 148-421.000.

Satoh, Hiroyuki: *See*—
Ikeda, Masaaki; Takahara, Wataru; Iteguchi, Junichi; Satoh, Hiroyuki; and Itoh, Shyuji, 4,642,737, Cl. 361-321.000.

Satoh, Isao: *See*—
Koishi, Kenji; Matsuo, Tamotsu; and Satoh, Isao, 4,688,203, Cl. 369-48.000.
Ohara, Shunji; Yoshida, Tomio; Satoh, Isao; and Koishi, Kenji, 4,689,780, Cl. 369-44.000.
Sugimura, Tatuo; Satoh, Isao; Ichinose, Makoto; and Kaneki, Yuzuru, 4,653,051, Cl. 371-37.000.
Takagi, Yuuji; Satoh, Isao; and Sugimura, Tatsuo, 4,695,993, Cl. 369-54.000.

Satoh, Junichi, to International Business Machines Corporation. Method for reading a document image. 4,641,357, 2-3-87, Cl. 382-61.000.

Satoh, Kazuhiro: *See*—
Ozawa, Naoki; Akiyama, Toshiyuki; Satoh, Kazuhiro; Nagahara, Syusaku; and Mimura, Itaru, 4,716,455, Cl. 358-44.000.

Satoh, Kazuo: *See*—
Shiobata, Kouki; Satoh, Kazuo; Ohmori, Motoji; Kikuchi, Katsuaki; and Kaneko, Ryoichi, 4,635,210, Cl. 364-508.000.
Satoh, Kenji; Kaneshige, Isao; and Ikari, Kyoichiro, to Kuraray Co., Ltd. Heat-laminating composite film and laminated material using the same. 4,684,564, 8-4-87, Cl. 428-216.000.
Satoh, Kimio: *See*—
Hagiwara, Satoru, Satoh, Kimio; and Okabe, Kazuo, 4,683,093, Cl. 264-22.000.
Satoh, Kiyoshi: *See*—
Matsuzaki, Toshio; Sorimachi, Haruo; Satoh, Kiyoshi; Suzuki, Takumi; and Sugii, Takeshi, 4,689,638, Cl. 346-76.0PH.
Satoh, Kohji, to Kyowa Gishi Kogyo Kabushiki Kaisha. Drop foot splint. 4,651,723, 3-24-87, Cl. 128-80.00E.
Satoh, Masaharu, and Hashimoto, Sadakatsu, to Sharp Kabushiki Kaisha. Refreshing of dynamic RAM. 4,706,221, 11-10-87, Cl. 365-222.000.
Satoh, Masaharu: *See*—
Fukuma, Tositaka; and Satoh, Masaharu, 4,685,769, Cl. 350-332.000.
Satoh, Masao, to Amada Metrecs Company, Limited. Bending tool. 4,641,516, 2-10-87, Cl. 72-481.000.
Satoh, Masaru: *See*—
Masaki, Mituo; Shimozaki, Haruhiko; Satoh, Masaru; Moritoh, Naoya; Hashimoto, Koichi; and Kamishiro, Toshiro, 4,644,063, Cl. 546-209.000.
Satoh, Masatoshi, and Akaike, Junichi, to Kioritz Corporation. Grass collecting bag for lawn mower. 4,702,063, 10-27-87, Cl. 56-202.000.
Satoh, Nobuhiro: *See*—
Suzuki, Yoshihiro; Satoh, Nobuhiro; Wajima, Motoyo; Narahara, Toshikazu; and Shimazaki, Takeshi, 4,661,417, Cl. 428-607.000.
Satoh, Osamu, to Mazda Motor Corporation. Boom positioning apparatus for rock drill. 4,698,570, 10-6-87, Cl. 318-568.000.
Satoh, Ryohei; Oshima, Muneo; Tanaka, Minoru; Sakaguchi, Suguru; Murata, Akira; and Hirota, Kazuo, to Hitachi, Ltd. Electronic circuit device and method of producing the same. 4,673,772, 6-16-87, Cl. 174-52.0FP.
Satoh, Ryohei: *See*—
Miyauchi, Tateoki; Yamaguchi, Hiroshi; Hongo, Mikio; Mizukoshi, Katsuro; Shimase, Akira; and Satoh, Ryohei, 4,687,939, Cl. 250-492.200.
Satoh, Satoru, to Jidosha Kiki Co., Ltd. Controller for valve mechanism of brake booster. 4,643,076, 2-17-87, Cl. 91-369.00R.
Satoh, Seiji: *See*—
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,633,662, Cl. 57-286.000.
Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, 4,689,944, Cl. 57-260.000.
Satoh Seiki Co., Ltd.: *See*—
Ichimura, Masatoshi, 4,669,402, Cl. 112-178.000.
Ichimura, Masatoshi, 4,688,500, Cl. 112-176.000.
Yoneda, Katsuki, 4,669,404, Cl. 112-121.120.
Yoneda, Katsuki, 4,711,188, Cl. 112-104.000.
Satoh, Shigeo: *See*—
Togashi, Shigeru; Satoh, Hiromi; Takahashi, Shigeyuki; Makino, Yasuo; Kakinuma, Mitsuru; Satoh, Shigeo; and Sugiyama, Shigeki, 4,703,628, Cl. 62-135.000.
Satoh, Shinichi: *See*—
Obitsu, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Satoh, Shinichi, 4,680,598, Cl. 503-217.000.
Obitsu, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Satoh, Shinichi, 4,687,862, Cl. 549-224.000.
Satoh, Shuichi: *See*—
Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.
Satoh, Susumu; Matsuoka, Saiji; Obara, Takashi; Tsuneyama, Kozo; and Irie, Toshio, to Kawasaki Steel Corporation. Production of formable thin steel sheet excellent in ridging resistance. 4,676,844, 6-30-87, Cl. 148-12.00C.
Satoh, Susumu; Suzuki, Hideo; Obara, Takashi; Nishida, Minoru; and Hashimoto, Osamu, to Kawasaki Steel Corporation. Method of making cold rolled dual-phase structure steel sheet having an excellent deep drawability. 4,708,748, 11-24-87, Cl. 148-2.000.
Satoh, Susumu: *See*—
Heller, Jorge; Skinner, Wilfred A.; Saito, Kenichiro; and Satoh, Susumu, 4,710,497, Cl. 514-221.000.
Satoh, Tadao: *See*—
Hosoda, Atsushi; Satoh, Tadao; and Mizuno, Takehisa, 4,656,212, Cl. 524-269.000.
Satoh, Taizo, to Fujitsu Limited. Drive circuit for fluorescent display tube. 4,691,145, 9-1-87, Cl. 315-169.300.
Satoh, Takao: *See*—
Seita, Toru; Satoh, Takao; and Kikuchi, Mitsuo, 4,693,796, Cl. 204-98.000.
Satoh, Takashi: *See*—
Kumai, Ko; Noda, Tatsuhiko; Ichiyama, Tadashi; and Satoh, Takashi, 4,647,305, Cl. 75-0.50B.
Satoh, Takateru; Shiba, Haruo; and Nunokawa, Eiichi, to TDK Corporation. Video cassette cartridge construction. 4,682,258, 7-21-87, Cl. 360-132.000.
Satoh, Takateru: *See*—
Ikebe, Masaru; Satoh, Takateru; and Tanaka, Kimio, 4,671,469, Cl. 242-198.000.
Satoh, Tamataro: *See*—
Yamada, Takemi; Satoh, Tamataro; Mizushina, Masaaki; Toyota, Koji; and Okamoto, Hiromi, 4,661,371, Cl. 427-49.000.
Satoh, Taxey: *See*—
Arai, Kazuo; Nishi, Shinichi; Satoh, Taxey; Kawaguchi, Yasushi; and Mine, Kiyomitsu, 4,672,395, Cl. 346-135.100.
Satoh, Tetsuo: *See*—
Orii, Shingo; Hara, Hajime; Satoh, Tetsuo; Toya, Tomohiro; and Iida, Shigeki, 4,652,626, Cl. 528-194.000.
Toya, Tomohiro; Hara, Hajime; Iida, Shigeki; and Satoh, Tetsuo, 4,698,397, Cl. 525-437.000.
Satoh, Tetsuya: *See*—
Kimura, Toshio; Nakagawa, Shuichi; Tokumo, Teruhiko; Yamamoto, Hiroyuki; Kotan, Hiroshi; Otsu, Hiroshi; and Satoh, Tetsuya, 4,649,399, Cl. 346-32.000.
Satoh, Toshihiko: *See*—
Fujino, Masahisa; Fukahori, Hidehiko; and Satoh, Toshihiko, 4,681,417, Cl. 354-234.100.
Satoh, Toshio; Matsumoto, Hitoshi; Kakegawa, Hisao; Kato, Yoshiko; Rike, Juichi; Yoshinaga, Junji; and Kanamoto, Yoshifumi, to Sawai Pharmaceutical Co., Ltd. [(1,3-dioxo-1,3-propanediyl)diimino]bisbenzoic acid derivatives. 4,634,777, 1-6-87, Cl. 548-561.000.
Setoh, Toshio; and Tsukamoto, Goro, to Kanebo, Ltd. Novel guanidinomethylcyclohexanecarboxylic acid compounds and antiulcer drug containing the same. 4,681,895, 7-21-87, Cl. 514-535.000.
Satoh, Toshio: *See*—
Katsuragi, Yasuhiro; Matsuda, Naoki; Saiga, Yoshiko; Kobayashi, Yasunobu; Nakamura, Masakazu; and Satoh, Toshio, 4,686,206, Cl. 514-27.000.
Yoshida, Tomio; Nakata, Yoshinobu; Ohara, Shunji; and Satoh, Toshio, 4,700,336, Cl. 369-44.000.
Satoh, Tsuyoshi; Mitsuishi, Tsutomu; Toyoda, Kenji; Naito, Kaoru; Ogawa, Makoto; and Sato, Hiroshi, to Nippon Kogaku K. K. Thermal transfer recording system. 4,698,646, 10-6-87, Cl. 346-76.0PH.
Satoh, Yoshitaka: *See*—
Sanpei, Keiichi; Satoh, Yoshitaka; and Ohashi, Yoshimitsu, 4,669,549, Cl. 172-112.000.
Satoh, Yutaka: *See*—
Ishii, Kenjiro; Satoh, Yutaka; Fukumoto, Fumio; Otsuki, Hajime; Kokura, Yasuhide; and Saito, Shuichi, 4,695,155, Cl. 355-45.000.
Otsuki, Hajime; Ishii, Kenjiro; Satoh, Yutaka; and Fukumoto, Fumio, 4,708,464, Cl. 355-45.000.
Satoji, Funinori, to NTN-Rulon Industries Co., Ltd. Finger strips for copying machines. 4,687,696, 8-18-87, Cl. 428-192.000.
Satokawa, Takaomi; Fujii, Tsuneo; and Deguchi, Takayuki, to Daikin Kogyo Co., Ltd. Patterned films of thiocarbonyl fluoride polymer. 4,656,108, 4-7-87, Cl. 430-18.000.
Satoma, Shiro, to Tokyo Juki Industrial Co., Ltd. Overedge width regulating device for overedging sewing machines. 4,690,079, 9-1-87, Cl. 112-162.000.
Satomi, Fumiko, legal representative: *See*—
Sase, Akira; Nagata, Takeo; Fukunaga, Masao; Sakurai, Yutaka; and Satomi, Yoshikatsu, deceased, 4,680,627, Cl. 358-101.000.
Satomi, Hirofumi, to Oriental Motor Co., Ltd. Driving circuit for multi-phase stepping motor. 4,663,577, 5-5-87, Cl. 318-696.000.
Satomi, Hitoshi. High density pulp screening apparatus. 4,657,636, 4-14-87, Cl. 162-261.000.
Satomi, Toyokazu, to Ricoh Company, Ltd. Support device for travel assembly. 4,714,354, 12-22-87, Cl. 384-38.000.
Satomi, Yoshikatsu, deceased: *See*—
Sase, Akira; Nagata, Takeo; Fukunaga, Masao; Sakurai, Yutaka; and Satomi, Yoshikatsu, deceased, 4,680,627, Cl. 358-101.000.
Satomura, Hiroshi; Takeuchi, Tatsuo; Egami, Hidemi; Nagase, Yukio; and Hosono, Nagao, to Canon Kabushiki Kaisha. Image recording apparatus. 4,674,857, 6-23-87, Cl. 355-3.00R.
Satomura, Hiroshi: *See*—
Hosono, Nagao; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hidemi; and Satomura, Hiroshi, 4,709,298, Cl. 361-213.000.
Inaba, Yutaka; Satomura, Hiroshi; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hidemi; and Hosaka, Akihito, 4,697,196, Cl. 346-159.000.
Nagase, Yukio; Egami, Hidemi; Takeuchi, Tatsuo; and Satomura, Hiroshi, 4,700,261, Cl. 361-225.000.
Yamakawa, Tadashi; Inoue, Yutaka; Satomura, Hiroshi; and Yano, Hideaki, 4,651,176, Cl. 346-160.000.
Satomura, Masato; Igarashi, Akira; and Iwakura, Ken, to Fuji Photo Film Co., Ltd. Fluoran derivatives and recording material using the same. 4,644,377, 2-17-87, Cl. 346-221.000.
Satomura, Masato; Iwakura, Ken; and Kawakami, Hiroshi, to Fuji Photo Film Co., Ltd. Process for preparation of ethers. 4,701,565, 10-20-87, Cl. 568-644.000.
Satomura, Masato, to Fuji Photo Film Co., Ltd. Indole derivatives and process for producing the same. 4,707,553, 11-17-87, Cl. 546-273.000.
Satomura, Masato: *See*—
Takashima, Masanobu; Satomura, Masato; Iwakura, Ken; and Igarashi, Akira, 4,707,464, Cl. 503-216.000.
Satomura, Shigeyuki: *See*—
Inazawa, Yoshizumi; Takahashi, Toshihiko; Tani, Toshiyuki; and Satomura, Shigeyuki, 4,641,208, Cl. 360-72.200.
Takahashi, Toshihiko; Inazawa, Yoshizumi; Tani, Toshiyuki; and Satomura, Shigeyuki, 4,688,115, Cl. 360-70.000.
Satonaka, Shinobu; Takahashi, Masanobu; Wakikaido, Takahiro; and Yoshioka, Masahiro, to Mita Industrial Co., Ltd. Operation panel and a displaying method for a copying machine. 4,708,470, 11-24-87, Cl. 355-77.000.

Satonaka, Shinobu: *See*—
Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,642,448, Cl. 219-216.000.
Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,650,347, Cl. 374-141.000.
Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,668,075, Cl. 355-14.0SH.

Satoru, Isoda; and Kenichi, Inatomi, to Mitsubishi Denki Kabushiki Kaisha. Method and apparatus for measuring cell counts of Methanogens or methane producing activity thereof. 4,686,372, 8-11-87, Cl. 250-461.200.

Satoru, Kudo: *See*—
Sadanori, Nishimura; and Satoru, Kudo, 4,660,707, Cl. 192-53.00F.

Satoru, Shinohara: *See*—
Kobayashi, Naotake; Abe, Tetsuya; Satoru, Shinohara; and Fujiwara, Yoshio, 4,666,320, Cl. 400-241.100.

Satoshi, Saito: *See*—
Sadao, Ando; and Satoshi, Saito, 4,705,241, Cl. 248-27.300.

Satou, Kazuhiro; Kudo, Koji; Maruyama, Masanori; Mimura, Itaru; and Nagahara, Shusaku, to Hitachi, Ltd. Method of and apparatus for controlling amount of electron beam in image pickup tube. 4,701,679, 10-20-87, Cl. 315-383.000.

Satou, Kenichi: *See*—
Mori, Youji; and Satou, Kenichi, 4,655,681, Cl. 415-100.000.

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Akiyama, Shigeo; and Satou, Shigeji, 4,705,224, Cl. 242-35.60E.

Satou, Takashi: *See*—
Degawa, Toru; Okuyama, Gen; Hashimoto, Akio; Uchida, Seiju; Fujiwara, Kouzou; Ebata, Makoto; Satou, Takashi; and Ototani, Tohei, 4,710,481, Cl. 501-123.000.

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Kawamura, Toshimi; and Satow, Takashi, 4,679,020, Cl. 335-216.000.

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Satra, Stephen E.: *See*—
Mackie, Gregory C.; Satra, Stephen E.; and Chen, Chih-Ming, 4,698,842, Cl. 381-1.000.

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Elka, Shmuel; and Satran, Amir, 4,708,537, Cl. 407-46.000.

Satre, Kenneth I.: *See*—
Kallestad, Daniel R.; and Satre, Kenneth I., 4,688,332, Cl. 34-34.000.

Satren, Ernest A.: *See*—
Higashi, Robert E.; James, Steven D.; Johnson, Robert G.; and Satren, Ernest A., 4,682,503, Cl. 73-755.000.

Satritdinov, Fakhritdin: *See*—
Junusov, Sabir J.; Junusov, Marat S.; Telnov, Vladimir A.; Dzhagangirov, Farkhad N.; Satritdinov, Fakhritdin; and Taizhanov, Karimzhan, 4,656,178, Cl. 514-279.000.

Satta, Kozo; Hasegawa, Hideo; and Kimura, Mareo, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Oxygen sensor and process for producing same. 4,655,892, 4-7-87, Cl. 204-192.150.

Sattelberger, Siegfried: *See*—
Hahn, Reinhard; Hess, Hans; and Sattelberger, Siegfried, 4,645,651, Cl. 423-62.000.
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Sattelmeyer, Richard; and Weil, Joachim, to Hoechst Aktiengesellschaft. Rubber mixtures, and rubber articles and motor vehicle tires produced therefrom. 4,652,612, 3-24-87, Cl. 525-215.000.

Sattelmeyer, Richard, to Hoechst Aktiengesellschaft. Reinforced rubber mixtures, a process for their preparation and their use. 4,699,832, 10-13-87, Cl. 428-36.000.

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Satterfield, Roy E. Protective device. 4,633,530, 1-6-87, Cl. 2-423.000.

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von Bonin, Wulf; Sattlegger, Hans; and Ebneth, Harold, 4,694,030, Cl. 523-179.000.
Weber, Wilhelm; Sockel, Karl H.; Achtenberg, Theo; and Sattlegger, Hans, 4,705,826, Cl. 524-860.000.

Sattler, Stephan: *See*—
Edelmann, Hermann; Pasch, Manfred; Mann, Karlheinz; Sattler, Stephan; and Haar, Hans-Peter, 4,676,952, Cl. 422-72.000.

Saturn Corporation: *See*—
Kingsley, Richard J., 4,688,845, Cl. 296-99.00R.

Satyanarayan, Arumugam; and Chin, Aland K., to Polaroid Corporation. Dual layer encapsulation coating for III-V semiconductor compounds. 4,714,518, 12-22-87, Cl. 156-635.000.

Satzger, Viktor; Guhr, Volker; and Laux, Gerhard, to VEB Kombinat Textima. Method of controlling a roving machine having a decentralized drive system. 4,698,957, 10-13-87, Cl. 57-96.000.

Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Kleinschroth, Jurgen; Herrmann, Manfred; Fritschi, Edgar; Tauschel, Horst-Dietmar; Wagner, Bernd; and Wolf, Gunter, to Godecke Aktiengesellschaft. Use of 1,6-naphthyridinone derivatives in treating pulmonary thrombosis. 4,698,341, 10-6-87, Cl. 514-230.000.

Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Kleinschroth, Jurgen; Osswald, Hartmut; Weinheimer, Gunter; and Fritschi, Edgar. 1,6-naphthyridine derivatives useful in the treatment of blood vessel diseases. 4,711,901, 12-8-87, Cl. 514-300.000.

Satzinger, Gerhard: *See*—
Herrmann, Wolfgang; and Satzinger, Gerhard, 4,649,196, Cl. 540-479.000.
Kleinschroth, Jorgen; Satzinger, Gerhard; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; Weinheimer, Gunter; and Fritschi, Edgar, 4,681,882, Cl. 514-258.000.
Kleinschroth, Jurgen; Satzinger, Gerhard; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; Weinheimer, Gunter; and Fritschi, Edgar, 4,677,108, Cl. 514-258.000.

Satzler, Ronald L., to Caterpillar Inc. Variable leverage recoil mechanism. 4,650,260, 3-17-87, Cl. 305-31.000.

Sauber, Charles J. Torsion bar stabilizer for a vehicle and method for mounting the stabilizer on the vehicle frame. 4,633,564, 1-6-87, Cl. 29-401.100.

Sauber, Charles J. Tension take-up system for drums and the like. 4,657,202, 4-14-87, Cl. 242-117.000.

Saud, Abel, to Procter & Gamble Company, The. Soap bar compositions containing guar gum. 4,704,224, 11-3-87, Cl. 252-132.000.

Saud, Abel: *See*—
Langer, Stanley H.; Saud, Abel; McDonald, George; and Kronick, James A., 4,668,289, Cl. 75-118.00R.

Sauda, Kenzo; Yokota, Akitoshi; Yagi, Takuro; Kurihayashi, Hiroshi; Kita, Saburo; Shibata, Setsuo; and Ogawa, Hirofusa, to JGC Corporation. Apparatus for compacting solid waste materials and its accessory facilities. 4,661,290, 4-28-87, Cl. 252-626.000.

Saudagar, Abdul S., to Polymed Laboratories. Method for parting rubber and products formed thereby, and a method of making a blood vessel. 4,670,313, 6-2-87, Cl. 428-12.000.

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Saudek, Vladimir: *See*—
Drobnik, Jaroslav; Noskova, Dagmar; Rypacek, Frantisek; Metalova, Marie; and Saudek, Vladimir, 4,659,849, Cl. 556-137.000.

Sauder, Karl, to Compat Aktiengesellschaft, Firma. Apparatus for pressing tubular parts. 4,696,085, 9-29-87, Cl. 29-237.000.

Sauer, Burkhard: *See*—
Diesel, Hans-Dieter; Schmidt, Hans J.; and Sauer, Burkhard, 4,652,482, Cl. 428-151.000.

Sauer, Claude; Burger, Raymond; Reguigne, Gabriel; and Kern, Marc, to Tourisme Hotellerie Ltd. Molded construction element. 4,690,874, 9-1-87, Cl. 428-537.100.

Sauer, Donald J., to RCA Corporation. Bit-line pull-up circuit. 4,639,898, 1-27-87, Cl. 365-202.000.

Sauer, Edward C.: *See*—
Hornung, Mary J.; and Sauer, Edward C., 4,666,516, Cl. 420-30.000.

Sauer, Gale E.: *See*—
Shirey, Richard; and Sauer, Gale E., 4,679,375, Cl. 52-777.000.

Sauer, Gerhard. Method of producing a subterranean structure. 4,648,743, 3-10-87, Cl. 405-138.000.

Sauer, Gerhard; and Haffer, Gregor, to Schering Aktiengesellschaft. Process for the production of 2,3-dihydroergolines. 4,695,617, 9-22-87, Cl. 546-69.000.

Sauer, Heinz, to Rasmussen GmbH. Hose coupling. 4,635,973, 1-13-87, Cl. 285-242.000.

Sauer, Heinz, to Rasmussen GmbH. Hose coupling. 4,682,798, 7-28-87, Cl. 285-174.000.

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Sauer, Joachim: *See*—
Dittner, Adam; Hutterer, Werner; and Sauer, Joachim, 4,691,811, Cl. 192-13.00R.

Sauer, John E.: *See*—
Krambeck, Frederick J.; McGovern, Stephen J.; and Sauer, John E., 4,640,463, Cl. 239-424.000.

Sauer, Jude S. Apparatus for effecting anastomosis of tubular tissue by laser welding. 4,633,870, 1-6-87, Cl. 128-303.100.

Sauer, Michael: *See*—
Grundken, Dieter; Redder, Manfred; Roling, Franz; Sauer, Michael; and Schoop, Gunther-Dietmar, 4,658,952, Cl. 198-735.00

Sauer, Rudolf: *See*—
Hafner, Udo; Hans, Waldemar; Kind, Wilhelm; Krauss, Rudolf; and Sauer, Rudolf, 4,678,124, Cl. 239-585.000.
Hans, Waldemar; Linssen, Mathias; and Sauer, Rudolf, 4,634,055, Cl. 239-533.300.
Hans, Waldemar; Linssen, Mathias; and Sauer, Rudolf, 4,651,931, Cl. 239-533.900.
Hans, Waldemar; Kind, Wilhelm; Knapp, Heinrich; Kramer, Wolfgang; and Sauer, Rudolf, 4,700,891, Cl. 239-132.500.
Kienzle, Wolfgang; Paschke, Werner; Sauer, Rudolf; and Knapp, Heinrich, 4,650,122, Cl. 239-497.000.
Knapp, Heinrich; Krauss, Rudolf; Sauer, Rudolf; and Sumal, Jahnd-Singh, 4,653,720, Cl. 251-65.000.
Krauss, Rudolf; and Sauer, Rudolf, 4,666,088, Cl. 239-533.120.

Sauer S.p.A.: *See*—
Cattani, Luciano, 4,648,829, Cl. 425-326.100.
Cattani, Luciano, 4,670,283, Cl. 426-512.000.
Curti, Carlo, 4,715,193, Cl. 62-345.000.

Sauer, William F.: *See*—
Crouch, Bill W.; Sauer, William F.; and Zylka, Kenneth R., 4,649,695, Cl. 53-431.000.

Sauereisig & Co.: *See*—
Sauereisig, Karl, 4,685,393, Cl. 101-375.000.

Sauereisig, Karl, to Sauereisig & Co. Rotogravure cylinder comprising a core and a shell detachably joined thereto. 4,685,393, 8-11-87, Cl. 101-375.000.

Sauers, Marvin E.: *See*—
Dickinson, Barry L.; Robeson, Lloyd M.; and Sauers, Marvin E., 4,643,937, Cl. 428-215.000.
Hartsing, Tyler F., Jr.; and Sauers, Marvin E., 4,649,176, Cl. 525-67.000.

Sauers, Richard F., to Du Pont de Nemours, E. I., and Company. Benzenesulfonamides as herbicides. 4,699,648, 10-13-87, Cl. 71-90.000.

Sauers, Richard F.: *See*—
Hay, James V.; and Sauers, Richard F., 4,687,508, Cl. 71-92.000.

Sauerschell, Wolfgang: *See*—
Szablewski, Piotr; and Sauerschell, Wolfgang, 4,708,289, Cl. 239-125.000.

Sauerwald, Manfred; Dockner, Toni; Rohr, Wolfgang; and Reissenweber, Gernot, to BASF Aktiengesellschaft. Process for the preparation of 5,6-dihydro-2H-thiopyran-3-carboxaldehyde derivatives wherein the reactions are conducted in a high boiling mineral oil without a catalyst. 4,670,567, 6-2-87, Cl. 549-13.000.

Sauerwein, Kurt; Kinzer, Norbert; and Mick, Felix W., to Sauerwein, Kurt, Dr. Pipeline switch. 4,692,628, 9-8-87, Cl. 250-497.100.

Sauerwein, Kurt, Dr.: *See*—
Sauerwein, Kurt; Kinzer, Norbert; and Mick, Felix W., 4,692,628, Cl. 250-497.100.

Saugeon, Ulrich: *See*—
Bark, Adalbert; and Saugeon, Ulrich, 4,703,440, Cl. 364-521.000.
Moeller, Reiner; Hetzel, Gert; Saugeon, Ulrich; Boheim, Gustav; and Zurinski, Viktor, 4,707,813, Cl. 367-103.000.

Sauger, Marvin E. Drawstring restringing system. 4,671,437, 6-9-87, Cl. 223-103.000.

Sauk, John J.; and Van Kampen, Craig L., to University of Minnesota, Regents of the; and Minnesota Mining and Manufacturing Company. Composition and method for osseous repair. 4,698,326, 10-6-87, Cl. 514-7.000.

Saul, Robert H.: *See*—
Burton, Randolph H.; Camlibel, Irfan; and Saul, Robert H., 4,700,210, Cl. 357-17.000.

Saulmer, Gary J.: *See*—
Rafferty, William; and Saulnier, Gary J., 4,647,864, Cl. 329-122.000.

Saum, Jack. Fireplace ashes removal device. 4,700,978, 10-20-87, Cl. 294-9.000.

Saumweber, Eckart; and Schmitt, Otto, to Knorr-Bremse AG. Brake lining carrier for disk brakes having divided lining elements. 4,640,390, 2-3-87, Cl. 188-73.370.

Saunders, Alex M.: *See*—
Chang, Chin-hai; and Saunders, Alex M., 4,654,312, Cl. 436-519.000.

Saunders, Arthur F.; and Eccles, Edward S., to Dowty and Smiths Industries Controls Limited; and Smiths Industries Public Limited Company. Two lane engine control system. 4,716,531, 12-29-87, Cl. 364-431.020.

Saunders, Charles A. Self cleaning pressure button. 4,648,376, 3-10-87, Cl. 124-41.00A.

Saunders, Charles A. Spring mounted silhouette archery target apparatus. 4,657,261, 4-14-87, Cl. 273-392.000.

Saunders, Charles A. Sling attachment to an archery bow. 4,714,071, 12-22-87, Cl. 124-88.000.

Saunders, Charles A., IV. Connector assembly for windscreen accessories. 4,700,919, 10-20-87, Cl. 248-288.500.

Saunders, Chris H., to TRW Inc. Wired-AND FET logic gate. 4,670,484, 7-14-87, Cl. 307-448.000.

Saunders, David H.: *See*—
Fairhurst, Robert M.; and Saunders, David H., 4,642,944, Cl. 51-436.000.

Saunders, Dennis L.: *See*—
Denton, Donald M.; Holm, LeRoy W.; and Saunders, Dennis L., 4,664,809, Cl. 210-663.000.

Saunders, George C., to United States of America, Energy. Flow cytometer measurement of binding assays. 4,665,020, 5-12-87, Cl. 435-7.000.

Saunders, Jeffrey H.: *See*—
Ansell, Henry G.; and Saunders, Jeffrey H., 4,712,077, Cl. 331-25.000.

Saunders, John: *See*—
Donald, David K.; Hann, Michael M.; Saunders, John; and Wadsworth, Harry J., 4,681,966, Cl. 558-255.000.

Saunders, Libert C.: *See*—
Al-Shaar, Adnan H.; Broughton, Barbara J.; Chambers, Robert K.; Gilmour, David W.; Kelsey, Diane M.; Lowden, Peter; Lunt, Edward; Lythgoe, David J.; McClenaghan, Ian; McDougall, Duncan C.; Saunders, Libert C.; Stuttle, Keith A. J.; and Warne, Peter J., 4,659,727, Cl. 514-370.000.
Collins, Raymond F.; Knowles, Philip; Saunders, Libert C.; Tierney, Francis J.; and Warne, Peter J., 4,647,569, Cl. 514-340.000.

Saunders, Philip G.: *See*—
Cooper, Larry L.; and Saunders, Philip G., 4,716,096, Cl. 430-323.000.

Saunders, Randy: *See*—
Martin, Frank J.; Hartman, Murray; and Saunders, Randy, 4,640,985, Cl. 174-138.00F.

Saunders, Richard J.; Hine, Derek L.; and Barker, Gerald C., to Coherent, Inc. Apparatus for perforating sheet material. 4,672,168, 6-9-87, Cl. 219-121.0LK.

Saunders, Richard J.: *See*—
Bennett, Donald; and Saunders, Richard J., 4,707,837, Cl. 372-34.000.

Saunders, Stanley S. Reciprocating transfer conveyor with sensing accumulating pads. 4,658,951, 4-21-87, Cl. 198-718.000.

Saunders, William J.: *See*—
Gaunt, Loraine E.; Crosby, Samuel C.; Saunders, William J.; and Bruffey, Robert D., Jr., 4,635,824, Cl. 222-129.100.
Gaunt, Loraine E.; Crosby, Samuel C.; Saunders, William J.; and Bruffey, Robert D., Jr., 4,711,374, Cl. 222-129.100.

Saunders, William T., to Weirton Steel Corporation. Full-open convenience-feature sheet metal can. 4,669,629, 6-2-87, Cl. 220-273.000.

Saunier, Christian: *See*—
Allard, Jean-Claude; Briard, Rene; and Saunier, Christian, 4,657,511, Cl. 434-20.000.

Saupe, Martin; Dauernheim, Hans; and Markl, Maximillian, to Emda Fabrik Elektro-Medizinischer und Dentaler Apparate Georg Hartmann GmbH & Co. KG. Apparatus for removing plaque and stains from the surfaces of teeth. 4,696,645, 9-29-87, Cl. 433-125.000.

Saur, Joseph W.; Reynolds, Charles P.; and Black, Alfred T., to United States of America, Navy. Magnetic separation device. 4,710,472, 12-1-87, Cl. 435-287.000.

Saur, Roland, to Behr-Thomson Dehnstoffregler GmbH. Control device. 4,642,599, 2-10-87, Cl. 337-397.000.

Saur, Roland, to Behr-Thomson Dehnstoffregler GmbH. Thermostatic valve for controlling the coolant temperature of an internal-combustion engine. 4,674,679, 6-23-87, Cl. 236-34.500.

Saur, Wolfgang: *See*—
Schonbachler, Max; and Saur, Wolfgang, 4,672,100, Cl. 528-75.000.

Saura, Hideaki: *See*—
Ohguma, Hirotsugu; Harada, Mitsuo; Saura, Hideaki; and Yasuda, Satoshi, 4,689,970, Cl. 62-514.00R.

Saurenman, Donald G., to Cumming Corporation. Static neutralization utilizing non-corroding ion dispensing tips. 4,675,781, 6-23-87, Cl. 361-216.000.

Saurenman, Phillip E.: *See*—
Casler, William A.; and Saurenman, Phillip E., 4,636,107, Cl. 403-405.100.

Saurer-Allma GmbH: *See*—
Krause, Ludwig, 4,669,712, Cl. 269-32.000.
Krause, Ludwig, 4,684,115, Cl. 269-136.000.

Saurer-Diederichs S.A.: *See*—
Volland, Michel; Fourneaux, Roger; and Grandvallet, Gilles, 4,651,785, Cl. 139-435.000.

Sauron, Albert; and Smetanine, Alexandre. Balanced rotary seal ensuring tightness of a hydraulic turbine shaft. 4,714,258, 12-22-87, Cl. 277-72.00R.

Sauseda, Blas O.: *See*—
House, David N.; and Sauseda, Blas O., 4,643,505, Cl. 339-75.00P.

Sauska, Christian: *See*—
Sillner, Sidney; and Sauska, Christian, 4,700,101, Cl. 313-1.000.

Sausner, Andreas, to VDO Adolf Schindling AG. Device for regulating engine idling speed. 4,668,440, 5-26-87, Cl. 261-65.000.

Sausner, Andreas; and Ruschek, Gerhard, to VDO Adolf Schindling AG. Method and device for producing a pulsed setting voltage. 4,675,589, 6-23-87, Cl. 318-599.000.

Sausner, Andreas; and Volz, Peter, to VDO Adolf Schindling AG. Device for adjusting the idling rpm. 4,702,209, 10-27-87, Cl. 123-339.000.

Sausner, Andreas: *See*—
Wietschorke, Stephan; Ruschek, Gerhard; and Sausner, Andreas, 4,662,334, Cl. 123-339.000.
Wietschorke, Stephan; Ruschek, Gerhard; and Sausner, Andreas, 4,708,110, Cl. 123-339.000.

Saussine, Lucien; Robine, Alain; and Mimoun, Hubert, to Institut Francais du Petrole. Metal peroxide complexes, their manufacture and use for oxidizing hydrocarbons to alcohols and/or ketones. 4,659,829, 4-21-87, Cl. 546-2.000.

Sautebin, Raoul; Weber, Jean-Claude; and Alborgheto, Carlo, to Swiss Aluminium Ltd. Device and process for the continuous casting of metals. 4,699,204, 10-13-87, Cl. 164-467.000.

Sauter, Erich W., to Sauter Manufacturing Corp. Method and apparatus of making gelatine capsule forming pins having a rounded locking groove. 4,667,498, 5-26-87, Cl. 72-108.000.
Sauter, Gerald F.: *See*—
Hastings, Roger N.; Sauter, Gerald F.; and Nelson, George F., 4,689,559, Cl. 324-248.000.
Sauter, Hubert: *See*—
Bliesener, Jens-Uwe; Baumann, Manfred; Hoffmann, Werner; Sauter, Hubert; and Jung, Johann, 4,671,816, Cl. 71-88.000.
Rentzea, Costin; Sauter, Hubert; Karbach, Stefan; Will, Wolfgang; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,678,798, Cl. 514-383.000.
Rentzea, Costin; Sauter, Hubert; Zeeh, Bernd; Heilen, Gerd; and Jung, Johann, 4,684,392, Cl. 71-76.000.
Roeser, Karl; Lauer, Manfred; Sauter, Hubert; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,639,447, Cl. 514-222.000.
Schirmer, Ulrich; Plath, Peter; Sauter, Hubert; and Wuerzer, Bruno, 4,642,132, Cl. 71-90.000.
Sauter Manufacturing Corp.: *See*—
Sauter, Erich W., 4,667,498, Cl. 72-108.000.
Sauter, Martin, to Maag Gear-Wheel & Machine Company Limited. Gear pump with retaining rings for the end bushes. 4,648,816, 3-10-87, Cl. 418-134.000.
Sautter, Helmuth O.: *See*—
Rucci, Norman M.; and Sautter, Helmuth O., 4,659,781, Cl. 358-163.000.
Sautter, Kenneth M.: *See*—
Batchelder, William T.; Piatt, John A.; and Sautter, Kenneth M., 4,647,172, Cl. 354-298.000.
Sautter, Sieghart: *See*—
Tilgner, Leopold; Scholer, Jurgen; Sautter, Sieghart; and Vogel, Jurgen, 4,691,422, Cl. 29-149.50B.
Sautter, Wilfried: *See*—
Kull, Hermann; Sautter, Wilfried; and Wessel, Wolf, 4,656,986, Cl. 123-357.000.
Stumpp, Gerhard; Sautter, Wilfried; and Wessel, Wolf, 4,671,232, Cl. 123-300.000.
Sautter, Wolfgang, to Bayerische Motoren Werke Aktiengesellschaft. Independent wheel suspension for motor vehicles. 4,653,772, 3-31-87, Cl. 280-666.000.
Sautter, Wolfgang, to Bayerische Motoren Werke Aktiengesellschaft. Independent vehicle wheel suspension. 4,655,474, 4-7-87, Cl. 280-666.000.
Sautter, Wolfgang; Strasser, Ludwig; and Mueller, Rudolf, to Bayerische Motoren Werke Aktiengesellschaft. Rear wheel suspension for motor vehicles. 4,671,531, 6-9-87, Cl. 280-690.000.
Sautter, Wolfgang: *See*—
Matschinsky, Wolfgang; Sautter, Wolfgang; Strasser, Ludwig; and Mueller, Rudolf, 4,671,532, Cl. 280-701.000.
Sauvage, Dominique, to Societe Europeenne de Propulsion. Process for preparing bodies of rocket propulsion units. 4,654,097, 3-31-87, Cl. 156-172.000.
Sauvage, Michel: *See*—
Cransac, Jean-Pierre; Jogand, Patrick; and Sauvage, Michel, 4,705,661, Cl. 376-206.000.
Sauvageau, Guy; and Sauvageau, Marcel. Tool for archery bow cushion plunger and for arrow nocks. 4,697,323, 10-6-87, Cl. 29-264.000.
Sauvageau, Marcel: *See*—
Sauvageau, Guy; and Sauvageau, Marcel, 4,697,323, Cl. 29-264.000.
Sauve, Laurier. Fishing lure with resilient stem. 4,648,198, 3-10-87, Cl. 43-42.060.
Sauvee, Jean P.; and Pressaco, Pierre, to Societe Anonyme D.B.A. Brake actuator with automatic adjustment. 4,699,253, 10-13-87, Cl. 188-71.900.
Sauvee, Jean P.; Riquart, Christian; and Levrai, Roland, to Societe Anonyme D.B.A. Hydraulic assistance device. 4,709,550, 12-1-87, Cl. 60-562.000.
Sauvee, Jean-Paul; Levrai, Roland; and Riquart, Christian, to Bendix France. Single actuator tandem brake pressure control valve. 4,671,168, 6-9-87, Cl. 91-530.000.
Sauvee, Jean-Paul, to Bendix France. Brake actuator with automatic adjustment. 4,712,655, 12-15-87, Cl. 188-196.00D.
Sauvee, Jean-Paul: *See*—
Pressaco, Pierre; and Sauvee, Jean-Paul, 4,705,147, Cl. 188-196.00D.
Sauvestre, Gerard D.: *See*—
Espagnacq, Andre; and Sauvestre, Gerard D., 4,697,521, Cl. 102-334.000.
Sauvestre, Jean-Claude: *See*—
Bocker, Jurgen; Klein, Klaus W.; Gersbach, Klaus; Sauvestre, Jean-Claude; and Montier, Patrick, 4,714,024, Cl. 102-521.000.
Wallow, Peter; Gersbach, Klaus; Simon, Walter; Bisping, Bernhard; Montier, Patrick; Moreau, Pierre A.; and Sauvestre, Jean-Claude, 4,702,172, Cl. 102-521.000.
Savage, Allen L.: *See*—
Hausler, Rudolph H.; Savage, Allen L.; and Harrell, Jack B., Jr., 4,667,150, Cl. 324-65.0CR.
Savage, Brian D. Razor with angled-edge blades. 4,663,843, 5-12-87, Cl. 30-48.000.
Savage, Jack W.: *See*—
Angi, Donald F.; Savage, Jack W.; and Unterborn, Ralph D., 4,659,951, Cl. 310-62.000.
Angi, Donald F.; Connors, Kevin G.; Lehnhoff, Richard N.; and Savage, Jack W., 4,665,350, Cl. 318-254.000.
Elliott, James O.; and Savage, Jack W., 4,694,210, Cl. 310-68.00R.
Lehnhoff, Richard N.; and Savage, Jack W., 4,678,972, Cl. 318-254.000.
Savage, John D.: *See*—
Mikula, Randy J.; Mikhail, Magdy W.; Dean, D. Michael; and Savage, John D., 4,671,098, Cl. 73-19.000.
Savage, Kenneth D.: *See*—
Morrison, Daniel R.; Petrie, Ross J.; and Savage, Kenneth D., 4,633,673, Cl. 62-129.000.
Savage, Kerry D.; Cox, Percy T.; and Paap, Hans J., to Texaco Inc. Propagation anisotropic well logging system and method. 4,636,731, 1-13-87, Cl. 324-338.000.
Savage, Kerry D., to Texaco Inc. Means and method for producing hydrocarbons from an earth formation during the RF retorting of a hydrocarbon stratum. 4,638,862, 1-27-87, Cl. 166-248.000.
Savage, Kerry D.: *See*—
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Mahanay, Joseph W.; and Savage, Lester D., 4,639,202, Cl. 418-59.000.
Savage, Nigel C. Bath with air jet. 4,672,692, 6-16-87, Cl. 4-543.000.
Savall, Jose; Parmentier, Claude; and Amelot, Bernard, to Freyssinet International (STUP). Frustoconic anchoring jaws for cables and their methods of manufacture. 4,707,890, 11-24-87, Cl. 24-122.600.
Savall, Vincent: *See*—
Louboutin, Robert; Savall, Vincent; and Vion, Patrick, 4,633,909, Cl. 137-888.000.
Savalle, Martine M. F.: *See*—
Dansky, Allan H.; Savalle, Martine M. F.; and Schettler, Helmut, 4,668,879, Cl. 307-454.000.
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Savard, Donald D. Process for welding pipe ends and an insulating ring therefor. 4,634,040, 1-6-87, Cl. 228-119.000.
Savard, Guy; and Lee, Robert, to Canadian Liquid Air Ltd./Air Liquide Canada Ltee. Molten metal casting. 4,657,587, 4-14-87, Cl. 75-96.000.
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Gorter, Helen R.; Moran, Lyle E.; Robertson, Warren D.; and Savard, Shaunalea, 4,711,672, Cl. 106-281.00R.
Savarino, Richard. Fish strike detector. 4,633,608, 1-6-87, Cl. 43-17.000.
Savary, Didier J. R., to Isover Saint Gobain. Apparatus for the formation of mineral fibers by means of centrifuging wheels. 4,668,267, 5-26-87, Cl. 65-11.100.
Savary, Fernand: *See*—
Lesaulnier, Guy; and Savary, Fernand, 4,696,783, Cl. 376-228.000.
Savas, Nedim: *See*—
Winter, Russell K.; Harvey, Thomas D.; and Savas, Nedim, 4,646,923, Cl. 211-189.000.
Winter, Russell K.; Harvey, Thomas D.; Savas, Nedim; and Kan, Richard S., 4,650,261, Cl. 312-140.000.
Savchak, Orest G.: *See*—
Yantsen, Ivan A.; Bekishev, Kenes K.; Savchak, Orest G.; Klok, Alexandr B.; Zhanabaev, Tolgat M.; Pakshtas, Mechislav-Valentinas K.; Glotov, Boris N.; Fink, Garold K.; Timkin, Alexei F.; Zorin, Nikolai I.; and Bobylev, Leonid M., 4,658,913, Cl. 173-134.000.
Savelainen, Matti, to Instrumentation Corp. Coil arrangement for producing a homogeneous magnetic field. 4,644,281, 2-17-87, Cl. 324-320.000.
Savelainen, Matti, to Instrumentarium Corp. Coil arrangement for NMR examination apparatus. 4,654,596, 3-31-87, Cl. 324-320.000.
Savelainen, Matti, to Instrumentarium Corp. RF coil arrangement for NMR examination apparatus. 4,712,068, 12-8-87, Cl. 324-318.000.
Saveliev, Vyacheslav N.: *See*—
Kostylev, Alexandr D.; Danilov, Boris B.; Smolyanitsky, Boris N.; Boginsky, Vladimir P.; Kogan, David I.; Smirnov, Oleg V.; and Saveliev, Vyacheslav N., 4,705,119, Cl. 175-92.000.
Kostylev, Alexandr D.; Boginsky, Vladimir P.; Smolyanitsky, Boris N.; Syryamin, Jury N.; Danilov, Boris B.; Kogan, David I.; and Saveliev, Vyacheslav N., 4,709,768, Cl. 175-296.000.
Savell, Fredrick B., III: *See*—
Winters, Jonathan K.; and Savell, Fredrick B., III, 4,659,380, Cl. 106-14.140.
Savenije, Franciscus G., to Auping b.v. Body support, such as a mattress. 4,682,378, 7-28-87, Cl. 5-239.000.
Savicki, Alan F., to First Brands Corporation. Rib and groove closure bag with bead sealed sides. 4,658,433, 4-14-87, Cl. 383-63.000.
Savides, John: *See*—
Kamel, Ahmed A.; Graul, Donald W.; Savides, John; and Hanson, Charles W., 4,688,092, Cl. 358-109.000.
Savigny, James G., to Ag-Pak, Inc. Construction for mounting mesh bags on bag handling portion of automatic weigher/bagger machine 4,644,735, 2-24-87, Cl. 53-570.000.
Savigny, James G., to Ag-Pak, Inc. Bagger machine. 4,715,167, 12-29-87, Cl. 53-572.000.
Savill, Ian C., to Integrated Circuit Systems, Ltd. Connector apparatus. 4,669,791, 6-2-87, Cl. 439-34.000.
Savill, Robert F., Jr.: *See*—
Fox, Thomas J.; Saia, Lawrence A.; Savill, Robert F., Jr.; Trapani, Richard D.; and Turner, Melvyn E., 4,668,852, Cl. 219-76.140.

Saville, James, to Texasgulf Minerals and Metals, Inc. Process for the extraction of platinum group metals. 4,685,963, 8-11-87, Cl. 75-10.190.
Saville, Robert W. Speaker system. 4,655,315, 4-7-87, Cl. 181-153.000.
Savin Corporation. *See*—
Grossinger, Israel, 4,678,317, Cl. 355-14.00D.
Landa, Benzion, 4,678,177, Cl. 271-238.000.
Savinell, Alan; and Hydeman, Jeffrey E., to Westinghouse Electric Corp. Delivery system for a remote sensor. 4,689,994, 9-1-87, Cl. 73-634.000.
Savini, Charles. *See*—
Yeh, Chuen Y.; and Savini, Charles, 4,649,223, Cl. 568-403.000.
Savino, Michael D. *See*—
Segrist, Joseph S.; and Savino, Michael D., 4,666,150, Cl. 272-123.000.
Savinykh, Vitaly V.; Tilles, Robert S.; Yakhontov, Jury A.; and Krasnov, Vladimir A. Belt conveyor. 4,650,065, 3-17-87, Cl. 198-828.000.
Savinykh, Vitaly V. *See*—
Nenakhov, Sergei S.; Tilles, Robert S.; Savinykh, Vitaly V.; Dyakov, Vladimir A.; and Nikitin, Vladimir V., 4,678,076, Cl. 198-525.000.
Tilles, Robert S.; Nenakhov, Sergei S.; and Savinykh, Vitaly V., 4,651,867, Cl. 198-524.000.
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Raninen, Jaakko; Savioja, Heikki; Koivula, Antti; Saarialho, Jorma; Sihto, Reijo; and Valimaki, Yrjo, 4,641,466, Cl. 52-171.000.
Savioli, Leopoldo, to S.I.C.A. Serrande. Infissi Carpenteria Attrezzatura S.p.A. Apparatus and process for controlling the work phases of a cutter device movable on continuously extruded tubes. 4,653,364, 3-31-87, Cl. 83-37.000.
Saviolo, Giuseppe, to Sant' Andrea Novara Officine Meccaniche e Fonderie S.p.A. Vertically-arranged rubbing finisher having symmetrically-located output bobbins with single slubbings. 4,669,260, 6-2-87, Cl. 57-331.000.
Saviotti, Giancarlo. *See*—
Antolini, Adriano; Morigi, Rodolfo; and Saviotti, Giancarlo, 4,712,832, Cl. 297-180.000.
Saviotti, Vanni. *See*—
Siligoni, Marco; Lari, Ferdinando; Saviotti, Vanni; and Comino, Vittorio, 4,638,122, Cl. 379-124.000.
Siligoni, Marco; and Saviotti, Vanni, 4,677,664, Cl. 379-382.000.
Savit, Carl H., to Western Geophysical Company of America. Telemetric system. 4,639,729, 1-27-87, Cl. 340-870.130.
Savit, Carl H., to Western Geophysical Company of America. Marine acoustic gradient sensor. 4,648,082, 3-3-87, Cl. 367-149.000.
Savit, Carl H.; and Doyle, Mark R., to Western Geophysical Co. Method for seismic exploration. 4,675,851, 6-23-87, Cl. 367-41.000.
Savit, Carl H., to Western Geophysical Company of America. Method for generating orthogonal sweep signals. 4,686,654, 8-11-87, Cl. 367-41.000.
Savit, Carl H.; Boone, Rhonda; and Doyle, Mark, to Western Geophysical Company of America. Beam-activated complex-solid formation utilizing pattern-independent, coordinate-sequence construction. 4,707,787, 11-17-87, Cl. 364-420.000.
Savitsky, Evgeny M.; Goikhman, Mikhail S.; Khudyk, Petr M.; Cheptsov, Valery V.; Sulyagin, Valentin V.; Polyakova, Viktoria P.; Shatinsky, Viktor F.; Gorina, Nelli B.; and Rudkovsky, Evgeny M., to Fiziko Mekhanichesky Institut Imeni Karpenko and Institut Metallurgii Imeni Baikova Akademii Nauk SSR. Process for chemical and thermal treatment of steel workpieces. 4,654,237, 3-31-87, Cl. 427-431.000.
Savkar, Sudhir D., to General Electric Company. Dual fuel single injector nozzle. 4,714,198, 12-22-87, Cl. 239-409.000.
Savla, Lalit J., to Kollmorgen Technologies Corporation. Floating mask encoder with assembly spacer. 4,712,005, 12-8-87, Cl. 250-231.0SE.
Savoie, Neri A. Portable cabinet. 4,709,970, 12-1-87, Cl. 312-140.400.
Savoie Refractaires. *See*—
Kiehl, Jean-Pierre; and Kuster, Daniel, 4,670,407, Cl. 501-87.000.
Savoie, Rolland J. *See*—
Nicholls, Robin P.; and Savoie, Rolland J., 4,691,148, Cl. 318-12.000.
Savolainen, Erkki. *See*—
Niiranen, Tapani; Savolainen, Erkki; and Kohonen, Raimo, 4,678,574, Cl. 210-327.000.
Savolainen, Esko; Laukkarinen, Tuomo; Lehto, Arto; Oksman, Erkki; and Eilamo, Unto, to Oy Nokia Ab. Conveyor chain. 4,636,181, 1-13-87, Cl. 474-207.000.
Savoly, Arpad; Villa, Jose L.; Garvey, Christopher M.; and Resnick, Albert L., to Diamond Shamrock Chemicals Company. Fluid loss agents for oil well cementing composition. 4,674,574, 6-23-87, Cl. 166-293.000.
Savoly, Arpad. *See*—
Garvey, Christopher M.; Savoly, Arpad; and Weatherford, Thomas M., 4,711,731, Cl. 252-8.514.
Savonlahti, Jukka; Ekholm, Pertti; and Harjunmaa, Hannu, to Labsystems Oy. Valve device. 4,696,195, 9-29-87, Cl. 73-864.840.
Savord, Bernard J., to Hewlett-Packard Company. Method to improve accuracy in delay lines. 4,700,573, 10-20-87, Cl. 73-625.000.
Savov, Ivan S. *See*—
Garlanov, Dimo T.; Dimitrov, Dimiter A.; Beloev, Marin G.; Hlebarov, Vladimir P.; Vangelov, Ivan V.; Nikov, Nikolay Y.; and Savov, Ivan S., 4,691,090, Cl. 219-121.0PC.
Savov, Krestyo T. *See*—
Vatzov, Vassil N.; Savov, Krestyo T.; and Stanev, Stefan G., 4,672,859, Cl. 74-479.000.
Savov, Peter H. *See*—
Bakalov, Nikolay G.; Penev, Penyo I.; Ivanov, Ivan K.; Velev, Velyo T.; Savov, Peter H.; and Vulchev, Alexander Y., 4,703,493, Cl. 373-95.000.
Savov, Rosen P. *See*—
Hadjiiski, Anatoli M.; Varbanov, Hristo P.; Mishonov, Michail I.; Stamov, Vladimir P.; Savov, Rosen P.; Radenkov, Strahil K.; Panev, Vladimir B.; and Velev, Alexander S., 4,638,607, Cl. 52-79.900.
Savov, Svetoslav A.; Mintchev, Mintcho S.; Nitchev, Peter I.; and Shivarov, Georgi S., to VMEI "Lenin". Method of controlling thermochemical treatment of workpieces in glow discharge in a treating gas medium and device which embodies this method. 4,648,952, 3-10-87, Cl. 204-192.120.
Savoy Leather Manufacturing Corporation. *See*—
Savoy, Robert L., 4,707,247, Cl. 206-387.000.
Savoy, Robert L., to Savoy Leather Manufacturing Corporation. Disk cassette storing. 4,707,247, 11-17-87, Cl. 206-387.000.
Savoye, Eugene D., to RCA Corporation. Back-illuminated CCD imagers of interline transfer type. 4,656,519, 4-7-87, Cl. 358-213.000.
Savoye, Eugene D.; Kosonocky, Walter F.; and Wallace, Lloyd F., to RCA Corporation. Method of making an imaging array having a higher sensitivity. 4,658,497, 4-21-87, Cl. 29-572.000.
Savoye, Eugene D., to RCA Corporation. Transfer smear reduction for charge sweep device imagers. 4,661,854, 4-28-87, Cl. 358-213.000.
Savoye, Eugene D., to RCA Corporation. Interrupting charge integration in semiconductor imagers exposed to radiant energy. 4,716,447, 12-29-87, Cl. 357-24.000.
SavR Company, Inc. *See*—
Cain, Jerry T.; Mason, James M.; and Rainey, Tommy D., 4,701,087, Cl. 410-94.000.
Savu, Patricia M., to Minnesota Mining and Manufacturing Company. Perfluoropolyether oligomers and polymers. 4,647,413, 3-3-87, Cl. 260-544.00F.
Savvateev, Konstantin L. *See*—
Babaian, Eduard A.; Gerasimova, Galina A.; Davydov, Anatoly B.; Utyamyshev, Rustam I.; Khromov, Gennady L.; Metelitsa, Vladimir I.; Vikhert, Anatoly M.; Savvateev, Konstantin L.; Piotrovsky, Vladimir K.; and Novikova, Elizaveta B., 4,713,239, Cl. 424-81.000.
Sawa, Natsuo. *See*—
Kamagata, Kazuo; Yamada, Toshiaki; and Sawa, Natsuo, 4,658,009, Cl. 528-109.000.
Sawa, Shigeki; and Ueda, Hiroshi, to Shibuya Kogyo Co. Ltd. Method of curing athlete's foot by laser beam irradiation. 4,640,283, 2-3-87, Cl. 128-395.000.
Sawa, Tetsuo. *See*—
Nemoto, Tsuneo; and Sawa, Tetsuo, 4,644,435, Cl. 360-133.000.
Sawa, Tsutomu. *See*—
Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Iinuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, 4,686,308, Cl. 564-219.000.
Sawa, Yasuo, to Minolta Camera Kabushiki Kaisha. Sheet sorter. 4,647,034, 3-3-87, Cl. 271-293.000.
Sawa, Yoichi. *See*—
Tsuda, Masao; Sawa, Yoichi; and Yamazaki, Iwao, 4,644,012, Cl. 514-456.000.
Sawa, Yuhji; and Itoh, Toshio, to Kureha Chemical Industry Co., Ltd. Apparatus for bag mouth opening. 4,664,161, 5-12-87, Cl. 141-114.000.
Sawada, Akihiro, to Brother Kogyo Kabushiki Kaisha. Writing-plotting apparatus with keyboard. 4,642,779, 2-10-87, Cl. 364-520.000.
Sawada, Daisaku; Sugaya, Masami; Imai, Ryuji; and Soga, Yoshinobu, to Toyota Jidosha Kabushiki Kaisha. Hydraulic control system for continuously variable transmission. 4,642,069, 2-10-87, Cl. 474-28.000.
Sawada, Daisaku; Sugaya, Masami; Soga, Yoshinobu; and Imai, Ryuji, to Toyota Jidosha Kabushiki Kaisha. Continuously variable transmission hydraulic contrel system having two pressure regulating valves. 4,685,357, 8-11-87, Cl. 74-867.000.
Sawada, Daisaku. *See*—
Kouno, Katsumi; and Sawada, Daisaku, 4,702,725, Cl. 474-28.000.
Shigematsu, Takashi; Watanabe, Tomoyuki; Tokoro, Setsuo; and Sawada, Daisaku, 4,715,258, Cl. 74-866.000.
Sawada, Haruhiko. *See*—
Miyazono, Tadafumi; Eguchi, Yoshio; Ogino, Akiharu; Sawada, Haruhiko; and Okude, Yoshitaka, 4,714,634, Cl. 427-409.000.
Sawada, Hideo. *See*—
Yata, Kiyoshi; and Sawada, Hideo, 4,641,277, Cl. 364-900.000.
Sawada, Hiroshi; and Urushidani, Masahiro, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling fuel supply of internal combustion engine. 4,653,452, 3-31-87, Cl. 123-491.000.
Sawada, Hiroshi; and Murai, Toshimi, to Toyota Jidosha Kabushiki Kaisha. Air-fuel ratio control system of internal combustion engine. 4,697,567, 10-6-87, Cl. 123-489.000.
Sawada, Hisashi. *See*—
Hidaka, Kazutaka; and Sawada, Hisashi, 4,686,537, Cl. 343-786.000.
Sawada, Ichiro, to Nippon Gakki Seizo Kabushiki Kaisha. Wooden frame for a grand piano. 4,693,159, 9-15-87, Cl. 84-186.00R.
Sawada, Katsuhide. *See*—
Nishihara, Sadamitsu; and Sawada, Katsuhide, 4,652,738, Cl. 250-202.000.
Sawada, Katsuji; and Kikuchi, Kunio, to Mikuni Kogyo Kabushiki Kaisha. Liquid fuel combustion apparatus. 4,669,974, 6-2-87, Cl. 431-154.000.
Sawada, Kazuo, to Sumitomo Electric Industries, Ltd. Nickel-titanium-beryllium alloy wire. 4,637,846, 1-20-87, Cl. 148-402.000.

Sawada, Kazuo; Takano, Satoshi; and Ezaki, Shigeo, to Sumitomo Electric Industries, Ltd. Copper based wire electrode for wire electro-discharge machining. 4,673,790, 6-16-87, Cl. 219-69.00W.

Sawada, Kazuo, to Sumitomo Electric Industries Ltd. Method of making thin alloy wire. 4,702,302, 10-27-87, Cl. 164-463.000.

Sawada, Keiichi, to Mitsubishi Denki Kabushiki Kaisha. Device for testing semiconductor devices. 4,651,088, 3-17-87, Cl. 324-73.00R.

Sawada, Ken: *See*—
Ikemoto, Yutaka; and Sawada, Ken, 4,636,977, Cl. 364-900.000.

Sawada, Kenji, to Fujitsu Limited. Stepper motor control system. 4,641,073, 2-3-87, Cl. 318-696.000.

Sawada, Kenji, to Alps Electric Co., Ltd. Switch control unit for operating power windows of an automobile. 4,654,487, 3-31-87, Cl. 200-1.00V.

Sawada, Kenji, to Alps Electric Co., Ltd. Motor switch. 4,689,450, 8-25-87, Cl. 200-6.00R.

Sawada, Kenji: *See*—
Kondo, Shiro; and Sawada, Kenji, 4,659,880, Cl. 200-5.00R.

Sawada, Koichi: *See*—
Nagasaki, Takeshi; and Sawada, Koichi, 4,677,260, Cl. 200-6.0BB.

Sawada, Koji; and Suzuki, Makoto, to Tokai Rubber Industries, Ltd.; and Toyota Jidosha Kabushiki Kaisha. Resilient mounting device for transversely disposed engine of front-engine front-drive vehicle. 4,667,764, 5-26-87, Cl. 180-297.000.

Sawada, Kouji; Miura, Kiyokatsu; Suzuki, Kenichiro; Idosako, Hidetaka; and Kazusa, Hideo, to Toyota Jidosha Kabushiki Kaisha; and Ishikawa Tekko Kabushiki Kaisha. Bush with a spherical sliding surface. 4,714,368, 12-22-87, Cl. 403-132.000.

Sawada, Kozo: *See*—
Hashimoto, Masashi; Aratani, Matsuhiko; and Sawada, Kozo, 4,640,915, Cl. 514-210.000.

Sawada, Masahiro: *See*—
Okita, Masaya; Sawada, Masahiro; and Ota, Tadashi, 4,658,191, Cl. 318-314.000.
Okita, Masaya; Sawada, Masahiro; and Ota, Tadashi, 4,710,684, Cl. 318-254.000.
Okita, Masaya; Sawada, Masahiro; and Ota, Tadashi, 4,710,825, Cl. 358-342.000.
Ozeki, Khoji; Sawada, Masahiro; Kimura, Isami; Kataoka, Mikiko; Sato, Makoto; and Yamada, Toshihiro, 4,666,915, Cl. 514-272.000.

Sawada, Morio, to Murata Kikai Kabushiki Kaisha. Robot system for encasing cone-like articles. 4,686,813, 8-18-87, Cl. 53-446.000.

Sawada, Saburo: *See*—
Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.

Sawada, Satoru; Naito, Hideki; and Kitaguchi, Hiroshi, to Fuji Photo Film Co., Ltd. Heat-developable light-sensitive material with electrically conductive layer. 4,643,964, 2-17-87, Cl. 430-523.000.

Sawada, Shigeru; and Utsumi, Yoichi, to Victor Company of Japan, Ltd. Television receiver provided with delay circuit. 4,670,790, 6-2-87, Cl. 358-188.000.

Sawada, Shin-ichi: *See*—
Tatsumi, Masami; Sawada, Shin-ichi; and Nakai, Ryusuke, 4,634,490, Cl. 156-601.000.

Sawada, Shinichi: *See*—
Tada, Koji; Tatsumi, Masami; Kotani, Toshihiro; and Sawada, Shinichi, 4,678,534, Cl. 156-607.000.

Sawada, Shuichi; and Murase, Yoshihiko, to Nippon Gakki Seizo Kabushiki Kaisha. Sound bar for percussive musical instruments and a method for producing same. 4,649,791, 3-17-87, Cl. 84-402.000.

Sawada, Tadashi; Ikegami, Tatsuji; and Iguchi, Masashi, to Rikagaku Kenkyusho; and Osaka Vacuum, Ltd. Thread groove type vacuum pump. 4,708,586, 11-24-87, Cl. 415-72.000.

Sawada, Takamasa; and Ihikawa, Junji, to Canon Kabushiki Kaisha. Image forming apparatus. 4,685,793, 8-11-87, Cl. 355-3.0SH.

Sawada, Takeshi; Toda, Yasushi; and Goto, Hirokazu, to Canon Kabushiki Kaisha. Perpendicular magnetic head. 4,649,449, 3-10-87, Cl. 360-123.000.

Sawada, Tetsuya: *See*—
Tokuno, Masateru; Sawada, Tetsuya; and Mori, Yasuharu, 4,658,723, Cl. 101-181.000.
Tokuno, Masateru; Sawada, Tetsuya; and Ishii, Yoshihiro, 4,682,743, Cl. 242-58.600.
Tokuno, Masateru; and Sawada, Tetsuya, 4,684,360, Cl. 493-367.000.
Tokuno, Masateru; Sawada, Tetsuya; and Mori, Yasuharu, 4,696,212, Cl. 83-343.000.

Sawada, Toshiharu: *See*—
Gamoh, Akira; Miura, Takashi; Sawada, Toshiharu; and Kiyooka, Katsumi, 4,658,778, Cl. 123-195.00C.
Miyazaki, Hiroshi; Sawada, Toshiharu; and Nakajima, Kazuo, 4,634,457, Cl. 55-276.000.

Sawada, Tsutomu; Yoshida, Kyoji; Takano, Shozo; and Fujikawa, Masanori, to Mitsubishi Monsanto Chemical Company. Medical material and process for its production. 4,664,658, 5-12-87, Cl. 604-266.000.

Sawada, Yasuo: *See*—
Nakamura, Hitoshi; Kaneko, Yujiro; Sawada, Yasuo; Machida, Hajime; Omi, Fumiya; and Watada, Atsuyuki, 4,690,861, Cl. 428-623.000.

Sawada, Yasushi; Ueyanagi, Kiichi; Katayama, Yoshifumi; Shiraki, Yasuhiro; Morioka, Makoto; Kuroda, Takao; and Mishima, Tomoyoshi, to Hitachi, Ltd. Semiconductor member and semiconductor device employing the same. 4,672,406, 6-9-87, Cl. 357-22.000.

Sawada, Yasushi: *See*—
Akasaka, Tamotsu; Tomiuchi, Shinichi; Seto, Kazuo; Matsui, Kenichi; and Sawada, Yasushi, 4,673,543, Cl. 264-82.000.
Shiraki, Yasuhiro; Katayama, Yoshifumi; Murayama, Yoshimasa; Morioka, Makoto; Sawada, Yasushi; Mishima, Tomoyoshi; Kuroda, Takao; and Maruyama, Eiichi, 4,673,959, Cl. 357-22.000.

Sawada, Yoshiro: *See*—
Kudo, Mitsuhiro; Takayama, Shinji; Sawada, Yoshizo; and Ogata, Yasunobu, 4,668,310, Cl. 148-304.000.

Sawaf, Bernard: *See*—
Pereira, Joseph J.; Taylor, Malcolm E.; and Sawaf, Bernard, 4,682,689, Cl. 206-222.000.

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Kishi, Kanesuke, 4,654,554, Cl. 381-158.000.

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Takano, Masami; and Tamura, Yukio, 4,710,659, Cl. 310-153.000.

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Akazawa, Naoki; Nishi, Kazuhiko; Kawakami, Naoya; Fujisawa, Yoshiaki; and Yamada, Noriyoshi, 4,706,470, Cl. 62-209.000.

Sawafuji, Tadaaki: *See*—
Honda, Kenji, deceased; and Sawafuji, Tadaaki, 4,677,818, Cl. 57-224.000.

Sawaguchi, Tatsue: *See*—
Nobukawa, Akira; Sawaguchi, Tatsue; and Kuroki, Yoshihiro, 4,696,513, Cl. 279-121.000.

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Nobukawa, Akira; Oota, Kojiro; and Sawaguchi, Tatuei, 4,669,362, Cl. 91-467.000.

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Sawai, Mitsuaki: *See*—
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Sawai, Nobushige: *See*—
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Sawai Pharmaceutical Co., Ltd.: *See*—
Satoh, Toshio; Matsumoto, Hitoshi; Kakegawa, Hisao; Kato, Yoshiko; Riku, Juichi; Yoshinaga, Junji; and Kanamoto, Yoshifumi, 4,634,777, Cl. 548-561.000.

Sawai, Shinichi: *See*—
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Sawai, Toshitsugu: *See*—
Nakao, Tadashi; and Sawai, Toshitsugu, 4,707,600, Cl. 250-227.000.

Sawaide, Minoru; Ishikawa, Noboru; and Shiokawa, Hideyo, to Shimizu Construction Co., Ltd. Concrete composition having heat resisting property and dimensional stability. 4,687,517, 8-18-87, Cl. 106-96.000.

Sawaide, Minoru: *See*—
Machi, Fumiharu; and Sawaide, Minoru, 4,660,340, Cl. 52-249.000.

Sawaki, Akira; and Kasahara, Seitaro, to Konishiroku Photo Industry Co., Ltd. Copying apparatus. 4,707,121, 11-17-87, Cl. 355-40.000.

Sawaki, Akira: *See*—
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Miyazaki, Masayuki; Kudo, Yoshihiko; Takahashi, Seizi; Kobayashi, Chiharu; and Sawaki, Akira, 4,659,208, Cl. 355-8.000.

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Sawaki, Yoshio: *See*—
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Sawamoto, Hirokazu: *See*—
Kayane, Yutaka; Sawamoto, Hirokazu; Omura, Takashi; and Harada, Naoki, 4,698,421, Cl. 534-642.000.
Kayane, Yutaka; Sawamoto, Hirokazu; Omura, Takashi; Harada, Naoki; and Takeshita, Akira, 4,701,524, Cl. 534-647.000.

Sawamoto, Mitsuo: *See*—
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Sawamura, Ichiroh: *See*—
Ouchi, Chiaki; Suenaga, Hiroyoshi; Sakuyama, Hideo; Hana, Michio; and Sawamura, Ichiroh, 4,675,055, Cl. 148-11.50F.

Sawamura, Kentaro; Kosaka, Yoshio; and Yamaguchi, Masayasu, to TDK Corporation. Sintered aluminum nitride body. 4,672,046, 6-9-87, Cl. 501-98.000.

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Mitsuharu; and Ito, Susumo, to Canon Kabushiki Kaisha. optical recording medium with laminated anti-reflection 7,953, 1-20-87, Cl. 428-333.000.

Mitsuharu; Honguu, Kazuoki; and Kikuchi, Kazuhiko, to Kabushiki Kaisha. Opto-magnetic recording medium. 9 22-87, Cl. 428-336.000.

Mitsuharu, to Canon Kabushiki Kaisha. Optical film and or producing same. 4,707,820, 11-17-87, Cl. 369-284.000.

Mitsuharu; and Taniguchi, Yasushi, to Canon Kabushiki Ultraviolet reflecting mirror. 4,714,308, 12-22-87, Cl.

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Tomohiko: *See*—
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Gore, John G., 4,684,783, Cl. 219-210.000.

Sawtell, Ralph R.; Bretz, Philip E.; and Jensen, Craig L., to Aluminum Company of America. Superplastic aluminum alloys containing scandium. 4,689,090, 8-25-87, Cl. 148-2.000.

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Spongr, Jerry J.; and Sawyer, Byron E., 4,656,357, Cl. 250-359.100.

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Sawyer, Steven D.; Hill, William D.; Wilson, Patricia A.; and Steiner, William M., to General Electric Company. Nuclear system test simulator. 4,640,812, 2-3-87, Cl. 376-245.000.

Sawyer, Thomas F., to United States of America, Air Force. Apparatus for casting directionally solidified articles. 4,712,604, 12-15-87, Cl. 164-513.000.

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Manning, Maurice; and Sawyer, Wilbur H., 4,649,130, Cl. 514-11.000.
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Sawyer, William D., Jr.; and Sawyer, William D., Sr. Suction roll seal strips with teflon insert. 4,714,523, 12-22-87, Cl. 162-371.000.

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Saxby, Michael E., to Hilvenna Limited. Compressed gas powered ammunition for guns. 4,697,523, 10-6-87, Cl. 102-440.000.

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Saxe, Charles L., to Tektronix, Inc. Address computation system for updating starting addresses of data arrays in an array processor within an instruction cycle. 4,704,680, 11-3-87, Cl. 364-200.000.

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Andresen, Brian D.; and Saxena, Vinit, 4,708,782, Cl. 204-299.00R.

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Saxinger, W. Carl; and Gallo, Robert C. Competitive ELISA for the detection of HTLV-III antibodies. 4,661,445, 4-28-87, Cl. 435-7.000.

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Saxton, Richard E. Coil spring forming machine. 4,672,549, 6-9-87, Cl. 364-468.000.

Say, Donald L., to North American Philips Consumer Electronics Corp. Color cathode ray tube in-line electron gun structure incorpo-

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Say, Donald L., to North American Philips Consumer Electronics Corp. Color cathode ray tube in-line electron gun focusing electrode with overlapping tapered apertures enlarged for beam spot shaping, and gun structures incorporating same. 4,656,391, 4-7-87, Cl. 313-414.000.
Say, Donald L.: *See*—
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Saya, Tsutomu: *See*—
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Shimada, Mitsuhiro; Matsumoto, Junichiro; Nonaka, Susumu; and Sayama, Haruo, 4,710,041, Cl. 400-120.000.
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Nakamura, Hiromi; Takahashi, Takehiko; Nanazaki, Norio; Yamamoto, Kazuo; and Sayama, Norio, 4,653,268, Cl. 60-39.050.
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Sayano, Akio, to Kabushiki Kaisha Toshiba. Method for the formation of a titanium or zirconium compound coating. 4,654,232, 3-31-87, Cl. 427-376.600.
Sayano, Kanji F.: *See*—
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Sayano, Reizo; and Goldberg, Eugene P., to Intermedics Intraocular, Inc. Intraocular implant. 4,681,585, 7-21-87, Cl. 623-6.000.
Sayed, Edmond A., to Movats Incorporated. Switch position sensing device for use with valve operators. 4,672,310, 6-9-87, Cl. 324-133.000.
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Sayler, William H.; and White, Justin C., to T.A.S., Inc. Solid fuel pulverizer for pulverized fuel burning system. 4,690,338, 9-1-87, Cl. 241-56.000.
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Sayles, David C., to United States of America, Army. Method of generating crosslinking sites on the surface of ammonium perchlorate in solid interceptor propellants. 4,708,754, 11-24-87, Cl. 149-11.000.
Sayles, Delbert E., Sr. Silver sensing material for use on film. 4,680,138, 7-14-87, Cl. 252-503.000.
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Banzi, Frederick J., Jr.; Dugan, Michael J.; Johnson, Randolph W.; Saylor, Douglas D.; and Sharper, Craig A., 4,688,209, Cl. 370-15.000.
Saylor, Dwight P.: *See*—
Rogers, Joel G.; and Saylor, Dwight P., 4,675,526, Cl. 250-363.500.
Sayo, Kosaku; Tani, Seijiro; Miyamoto, Seigo; Emi, Kenji; and Fukushima, Toshihiko, to Hitachi, Ltd. Apparatus for measuring refrigerant flow rate in refrigeration cycle. 4,653,288, 3-31-87, Cl. 62-210.000.
Sayou, Syoichi: *See*—
Takahashi, Tokuyuki; Kuramochi, Koujiro; and Sayou, Syoichi, 4,690,239, Cl. 180-249.000.
Sayward, Samuel S., Jr., to Oneida, Ltd. Food warmer with removable electric heater. 4,658,117, 4-14-87, Cl. 219-437.000.
Sbalchiero, Carlo; and Giorgio, Brazzale, to Burr Oak Tool & Gauge Co. Device for assembling return bend to coil. 4,683,649, 8-4-87, Cl. 29-726.000.
Sbaschnigg, Johann, to Maschinenfabrik Andritz Actiengesellschaft. Multi-nip high pressure press. 4,681,659, 7-21-87, Cl. 162-360.100.
Sburlati, Luigi; Acuto, Giovanni; and Stacchino, Giuseppe, to Fiat Auto S.p.A. Unit for connecting a seat to motor vehicle floor. 4,691,946, 9-8-87, Cl. 248-429.000.
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Scaccia, Carl; Fisher, Dennis H.; and Throckmorton, Peter E., to Ashland Oil, Inc. Stable polyol-melamine blend for use in the manufacture of fire retardant flexible urethane foam. 4,644,015, 2-17-87, Cl. 521-129.000.
Scadding, John R., to Ford Motor Company. Engine cooling system. 4,706,615, 11-17-87, Cl. 123-41.010.
Scaduto, Anthony F.: *See*—
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Giammarco, Nicholas J.; Gimpelson, Alexander; Kaplita, George A.; Lopata, Alexander D.; Scaduto, Anthony F.; and Shepard, Joseph F., 4,707,218, Cl. 156-643.000.
Scahill, Steven. Utility connection bar. 4,711,470, 12-8-87, Cl. 285-30.000.
Scaife, Stephen: *See*—
Bank, Graham; Scaife, Stephen; and Millward, Gareth, 4,680,800, Cl. 381-194.000.
Scala, Carl, to Halliburton Company. Method and apparatus for determining clay counter-ion concentration in shaly sands. 4,698,500, 10-6-87, Cl. 250-256.000.
Scala, Luciano C.; Fuller, Timothy J.; and Alvino, William M., to Westinghouse Electric Corp. Reinforced composites made by electro-phoretically coating graphite or carbon. 4,664,768, 5-12-87, Cl. 204-181.600.
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Choyke, Wolfgang J.; Wood, Susan; Scala, Luciano C.; Zussman, Melvin P.; Doggrell, Leslie A.; and Lauer, Janet S., 4,711,822, Cl. 428-458.000.
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Scalera, Michael, to AT&T Bell Laboratories. Protector with circuit disabler. 4,641,218, 2-3-87, Cl. 361-119.000.
Scalia, Antonino. Method of playing a letter selecting and arranging game. 4,690,409, 9-1-87, Cl. 273-299.000.
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Scalisi, Robert A.: *See*—
Lanzisera, Vincent A.; Scalisi, Robert A.; and Oberhauser, Peter, 4,650,276, Cl. 350-96.200.
Scallan, David J., to Dresser Industries, Inc. Safety relief valve. 4,708,164, 11-24-87, Cl. 137-476.000.
Scallen, David J. Apparatus for cutting potatoes and onions. 4,704,959, 11-10-87, Cl. 99-538.000.
Scalzo, Joseph: *See*—
Cureton, George K.; Scalzo, Joseph; and White, Gary J., 4,688,439, Cl. 74-60.000.
Scamehorn, John F.: *See*—
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Scampini, Daniel. Variable volume ejector with motive fluid pulser. 4,701,108, 10-20-87, Cl. 417-104.000.
Scan-Development KY: *See*—
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Scan Screen A/S: *See*—
Clausen, Erik; Clausen, Johannes; Jensen, Holger; and Sturlason, Finnur, 4,636,035, Cl. 350-128.000.
Scan-Web I/S: *See*—
Christensen, John M., 4,668,322, Cl. 756-209.000.
Scan Web of North America, Inc.: *See*—
Laursen, Henning; Mosgaard, John; Nielson, Otto V.; and Poland, Clark L., 4,640,810, Cl. 264-518.000.
Scandia Packaging Machinery Co.: *See*—
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Schad, Hans P.; and Kelly, Stephen M., to Merck Patent Gesellschaft mit beschrankter Haftung. Anisotropic compounds and liquid crystal mixtures therewith. 4,710,315, 12-1-87, Cl. 252-299.630.
Schad, Kurt, to General Motors Corporation. Suspension element for the exhaust system of a motor vehicle engine. 4,634,088, 1-6-87, Cl. 248-60.000.
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Schad, Robert D. Amphibious jet powered craft. 4,669,408, 6-2-87, Cl. 114-43.000.
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Schade, Bernd: *See*—
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Schaefer, Ernst H., to Westvaco Corporation. Bleach system for dissolving chlorine gas into a bleach filtrate. 4,662,993, 5-5-87, Cl. 162-242.000.
Schaefer, Henry A.; and Garner, Terry N., to General Electric Company. Externally connectable control unit for a portable radio. 4,688,262, 8-18-87, Cl. 455-89.000.
Schaefer, Henry A.; and Garner, Terry N., to General Electric Company. Portable radio battery pack with on-off switch. 4,709,201, 11-24-87, Cl. 320-2.000.
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Schaeffer, Gaston, to Giffin, Lyle. Ice skate. 4,655,465, 4-7-87, Cl. 280-11.120.
Schaeffer, Hans A. Dental preparation, article and method for storage and delivery thereof. 4,687,663, 8-18-87, Cl. 424-52.000.
Schaeffer, Howard J., to Burroughs Wellcome Co. Purine derivatives. 4,649,140, 3-10-87, Cl. 514-261.000.
Schaeffer, James M.; and Hsueh, Aaron J., to University of California, The Regents of the. Bioluminescent assay reagent and method. 4,665,022, 5-12-87, Cl. 435-7.000.
Schaeffer, Michael A. Knuckle guard. 4,674,487, 6-23-87, Cl. 128-87.00A.
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Schaeffler, Georg, to Motomak Motorenbau, Maschinen- und Werkzeugfabrik, Konstruktionen GmbH. Hydraulic valve tappet. 4,648,360, 3-10-87, Cl. 123-90.550.
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Schafer, Berthold, to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Adapter for connecting a pressure line to the perforated surface of a model to be tested in the wind tunnel. 4,653,317, 3-31-87, Cl. 73-147.000.
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Schafer, Curtiss R., to Cortronix, Inc. Cortical hearing aid. 4,711,243, 12-8-87, Cl. 128-420.500.
Schafer, Cyril L. Toilet stool instant odor removal means. 4,701,966, 10-27-87, Cl. 4-213.000.
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Grabiak, Raymond C.; Howe, Robert K.; and Schafer, David E., 4,640,702, Cl. 71-90.000.
Schafer, Erich E.: *See*—
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Schafer, Ewald; and Jung, Harald, to Karl Otto Braun KG. Firma. Process for producing a cohesive, self-adhesive, rigid or elastic bandage for fixing, compression and support dressings for medical purposes and bandage produced by this process. 4,699,133, 10-13-87, Cl. 128-156.000.
Schafer, Fritz P.; Szatmari, Sandor; and Bor, Zsolt, to Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V. Method and device for producing individual short laser pulses. 4,641,312, 2-3-87, Cl. 372-25.000.
Schafer, Gerhard, to Fritz Schafer Gesellschaft mit beschrankter Haftung. Shelf support structure. 4,648,517, 3-10-87, Cl. 211-183.000.
Schafer, Gerhard, to Fritz Schafer Gesellschaft mit Beschrankter Haftung. Shelf board of laminated material, particularly sheet metal. 4,676,384, 6-30-87, Cl. 211-184.000.
Schafer, Gerhard, to Fritz Schafer Gesellschaft mit beschrankter Haftung. Transport container for stacked goods with skids. 4,703,980, 11-3-87, Cl. 312-111.000.
Schafer, Hartmut. Speed bumps for roadways. 4,697,294, 10-6-87, Cl. 14-69.500.
Schafer, Heinz-Peter: *See*—
Roddeck, Werner F.; and Schafer, Heinz-Peter, 4,658,648, Cl. 73-597.000.
Schafer, Horst-Dieter: *See*—
Muhlhahn, Dieter; Marsella, Gino; Detzner, Friedhelm; Simons, Dieter; Schafer, Horst-Dieter; and Haarkotter, Hermann, 4,660,811, Cl. 267-141.100.
Schafer, John B.: *See*—
Ryan, Harold; Miller, Scott G.; and Schafer, John B., 4,689,551, Cl. 324-51.000.
Schafer, Kenneth L. Animal watering apparatus. 4,708,091, 11-24-87, Cl. 119-73.000.
Schafer, Klaus: *See*—
Abratis, Horst; Obenaus, Roman; and Schafer, Klaus, 4,647,306, Cl. 75-49.000.
Schafer, Norbert: *See*—
Kurz, Dieter; and Schafer, Norbert, 4,700,075, Cl. 250-368.000.
Schafer, Otmar U. Process for the staged heating of a material in a treatment apparatus and subsequent cooling thereof. 4,685,507, 8-11-87, Cl. 165-2.000.
Schafer, Paul: *See*—
Abel, Heinz; Schafer, Paul; and Berenut, Hans-Ulrich, 4,705,525, Cl. 8-555.000.
Abel, Heinz; Schafer, Paul; and Berendt, Hans-Ulrich, 4,705,526, Cl. 8-555.000.
Schafer, Peter: *See*—
Grimm, Rainer; Bohm, Horst; and Schafer, Peter, 4,671,565, Cl. 296-216.000.
Schafer, Ralf; and Stormberg, Hans P. High-pressure discharge lamp. 4,644,216, 2-17-87, Cl. 313-25.000.
Schafer, Ralf: *See*—
Dannert, Horst; Ganser, Hans-Gunther; Schafer, Ralf; and Stormberg, Hans-Peter, 4,714,862, Cl. 315-244.000.
Schafer, Robert M. Automatic dishwasher condition indicator. 4,651,423, 3-31-87, Cl. 116-228.000.
Schafer, Rolf. *See*—
Ganser, Hans G.; Kersten, Reinhard; Schafer, Rolf; and Stormberg, Hans P., 4,705,991, Cl. 315-209.00R.
Schafer, Timothy V.: *See*—
Russell, Robert A.; Moore, Trevor J.; and Schafer, Timothy V., 4,644,853, Cl. 92-190.000.
Schafer, Walter; Muller, Hanns P.; Kuchenmeister, Rolf; and Sickert, Armin, to Bayer Aktiengesellschaft. Process for the production of sheet structures. 4,707,386, 11-17-87, Cl. 427-386.000.
Schafer, Wolfgang, to Ruhrkohle Aktiengesellschaft. Gas generator installation. 4,670,023, 6-2-87, Cl. 48-77.000.
Schafer, Wolfgang, to Ruhrkohle Aktiengesellschaft. Cyclone cleaner for a fixed bed reactor. 4,674,418, 6-23-87, Cl. 110-229.000.
Schafer, Wolfgang: *See*—
Agethen, Heinrich; Gesenhues, Paul; Radtsch, Helmer; Jandeleit, Otto; and Schafer, Wolfgang, 4,643,944, Cl. 428-349.000.
Jadamus, Hans; Ribbing, Wilfried; Feinauer, Roland; and Schafer, Wolfgang, 4,656,220, Cl. 524-502.000.
Schaff, Fredrick L.: *See*—
Gottlieb, Milton; and Schaff, Fredrick L., 4,639,092, Cl. 350-372.000.
Gottlieb, Milton; and Schaff, Fredrick L., 4,653,869, Cl. 350-372.000.
Schaff, Jean-Paul. Device for protecting overhead electroconducting lines against lightning. 4,665,460, 5-12-87, Cl. 361-137.000.
Schaffel, Neal A.: *See*—
Lee, Robert W.; and Schaffel, Neal A., 4,710,239, Cl. 148-101.000.
Schaffer, Dennis A.: *See*—
Valencic, Milan D.; and Schaffer, Dennis A., 4,709,471, Cl. 29-605.000.
Schaffer, Douglas A.: *See*—
Richardson, Michael M.; and Schaffer, Douglas A., 4,678,353, Cl. 400-248.000.
Schaffer, Irving; and Emmerich, Claude L., to Meditec Research Associates. Ambulatory intravenous delivery system. 4,684,367, 8-4-87, Cl. 604-140.000.
Schaffer, John S.: *See*—
Patel, Janak R.; and Schaffer, John S., 4,636,594, Cl. 200-15.000.
Schaffer, Ortwin: *See*—
Augart, Dietmar; Eilingsfeld, Heinz; Krueger, Heinz; Lardon, Hartmut; Schaffer, Ortwin; and Seybold, Guenther, 4,677,199, Cl. 534-618.000.
Schaffer, Ronald R., to AMP Incorporated. Outlet for optical fiber connectors. 4,669,802, 6-2-87, Cl. 439-535.000.
Schaffer, Ronald R.: *See*—
Bowen, Terry P.; Glover, Douglas W.; Hoover, Charles D.; Huber, John H.; and Schaffer, Ronald R., 4,678,264, Cl. 350-96.200.
Schaffer, William J.: *See*—
Broom, Walter E.; Henry, Michael; and Schaffer, William J., 4,669,076, Cl. 369-77.100.
Schaffert, Albrecht: *See*—
Hornburger, Detlev; Schaffert, Albrecht; and Schneider, Henner, 4,634,812, Cl. 379-269.000.
Schaffhauser, Brian E.; and Spector, George. Static amplification stun gun. 4,691,264, 9-1-87, Cl. 361-232.000.
Schaffitz, Wolfgang, to Institut fur Motorenbau Professor Huber e.V. Fuel injection system. 4,712,528, 12-15-87, Cl. 123-446.000.
Schaffner, Carl P. Method for the immunoanalysis of cholesterol epoxides. 4,639,420, 1-27-87, Cl. 435-7.000.
Schaffner, Donald R.; and Leeds, Donald H., to B. F. Goodrich Company, The. Heat dissipation means for X-ray generating tubes. 4,688,239, 8-18-87, Cl. 378-141.000.
Schaffner, Ernst: *See*—
Muller, Josef; Wiersdorff, Walter-Wielant; Burst, Wolfram; Dralle, Heinz; Schaffner, Ernst; and Steinkamp, Rolf, 4,661,610, Cl. 558-344.000.
Schaffner, Hans S., to International Hydron Corporation. Cutting device and method for the precision trimming of the edge of a cast lens. 4,647,261, 3-3-87, Cl. 409-132.000.
Schaffner, Hanspeter, to Gebruder Buhler AG. Pellet mill. 4,711,622, 12-8-87, Cl. 425-331.000.
Schafft, Helmut. Method of producing a filter pad. 4,647,415, 3-3-87, Cl. 264-86.000.
Schafft, Helmut. Fluid filter device. 4,655,919, 4-7-87, Cl. 210-236.000.
Schaham, Moshe: *See*—
Sommargren, Gary E.; and Schaham, Moshe, 4,688,940, Cl. 356-349.000.
Schaible, Siegfried; and Schneble, Edwin, to Klockner-Humboldt-Deutz AG Zweigniederlassung Fahr. Round baling press. 4,638,623, 1-27-87, Cl. 56-341.000.
Schaible, Siegfried; Hohlwegler, Heinz; and Kohl, Bernhard, to Klockner-Humboldt-Deutz Aktiengesellschaft. Baler and process for making bales or for operating the baler. 4,711,078, 12-8-87, Cl. 56-341.000.
Schaible, Siegfried; Wolfle, Hans-Peter; Gusewell, Eike; and Kohl, Bernhard, to Klockner-Humboldt-Deutz AG Zweigniederlassung Fahr. Binder-twine guide and cutter mechanism for roll-baler. 4,715,175, 12-29-87, Cl. 56-432.000.
Schaich, Eugen: *See*—
Rauscher, Elli; Schaich, Eugen; Neumann, Ulrich; Wallefeld, August; Gruber, Wolfgang; and Empl, Bernhard, 4,709,120, Cl. 536-17.800.
Schaich, Josef. Four stroke piston engine. 4,640,237, 2-3-87, Cl. 123-79.00C.
Schainholz, Herbert. Sterilization container. 4,661,326, 4-28-87, Cl. 422-310.000.
Schaktfirma Broderna Svensson AB.: *See*—
Svensson, Everth, 4,634,299, Cl. 384-271.000.

Schalenbach, Rolf; and Waldmann, Helmut, to Bayer Aktiengesellschaft. Process for the preparation of 1-butene-3,4-diol. 4,661,646, 4-28-87, Cl. 568-857.000.

Schalk, Bert, to SKF Industrial Trading and Development Company B.V. Method for the assembly of an inner race for a roller bearing and an annular cage whose openings contain rolling elements. 4,700,443, 10-20-87, Cl. 29-148.40C.

Schalk, Thomas B.: *See*—
Rajasekaran, Periagaram K.; Doddington, George R.; and Schalk, Thomas B., 4,712,242, Cl. 381-42.000.

Schalkowsky, Samuel, to Spiral System Instruments, Inc. Computer assisted biological assay system. 4,637,053, 1-13-87, Cl. 382-6.000.

Schaller Automation Industrielle Automationstechnik KG: *See*—
Rathmachers, Peter; and Donner, Bernd, 4,656,315, Cl. 194-74.00R.
Schaller, Werner, 4,666,019, Cl. 184-6.400.

Schaller, Donald L. Life spotting distress signal package. 4,697,706, 10-6-87, Cl. 206-573.000.

Schaller, Hans-Ludwig, to Mannesmann Aktiengesellschaft. Hoisting mechanism for the cover of a furnace. 4,662,526, 5-5-87, Cl. 212-166.000.

Schaller, Jean-Pierre, to Automobiles Peugeot; and Automobiles Citroen. Expandable, plastic panel fastener. 4,652,192, 3-24-87, Cl. 411-24.000.

Schaller, Klaus: *See*—
Kruger, Bernd-Wieland; Lockhoff, Oswald; Metzger, Karl G.; Opitz, Hans-Georg; Schaller, Klaus; Stunkel, Klaus G.; and Zeiler, Hans-Joachim, 4,716,152, Cl. 514-25.000.
Stadler, Peter; Lockhoff, Oswald; Opitz, Hans-Georg; and Schaller, Klaus, 4,683,222, Cl. 514-42.000.

Schaller, Werner, to Siemens Aktiengesellschaft. Direction-sensitive sensor. 4,643,508, 2-17-87, Cl. 339-147.00R.

Schaller, Werner, to Schaller-Automation Industrielle Automationstechnik KG. Device for monitoring lubrication in large diesel engines. 4,666,019, 5-19-87, Cl. 184-6.40C.

Schallmeier, Gunter; and de Vries, Geraard, to Continental Gummi-Werke Aktiengesellschaft. Unvulcanized tread strip for pneumatic vehicle tires. 4,698,245, 10-6-87, Cl. 428-33.000.

Schallner, Otto: *See*—
Gehring, Reinhold; Klauke, Erich; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,668,280, Cl. 71-92.000.
Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,681,618, Cl. 71-92.000.
Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,685,956, Cl. 71-92.000.
Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Lurssen, Klaus; Santel, Hans-Joachim; and Schmidt, Robert R., 4,685,957, Cl. 71-92.000.
Gehring, Reinhold; Lindig, Markus; Schallner, Otto; Santel, Hans-Joachim; Schmidt, Robert R.; and Stetter, Jorg, 4,695,308, Cl. 71-86.000.
Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; Schmidt, Robert R.; and Lurssen, Klaus, 4,711,658, Cl. 71-92.000.

Schally, Andrew V.; and Cai, Ren Z. Biologically active octapeptides. 4,650,787, 3-17-87, Cl. 514-11.000.

Schaltbau GmbH: *See*—
Poschet, Klaus, 4,659,883, Cl. 200-43.030.

Schaltegger, Herbert E. Method and apparatus for high speed container placement. 4,657,054, 4-14-87, Cl. 141-1.000.

Schalueck, Klaus: *See*—
Hertweck, Gernot; Kappis, Fritz; Kellermann, Guenter; and Schalueck, Klaus, 4,697,569, Cl. 123-568.000.

Schambeck, Herbert, to Dyckerhoff & Widmann Aktiengesellschaft. Support system for a multiple-span bridge. 4,669,143, 6-2-87, Cl. 14-17.000.

Schamberger, Rudolf: *See*—
Plackner, Kurt; Schamberger, Rudolf; and Kirchpfening, Max, deceased, 4,645,963, Cl. 310-265.000.

Schamblin, Charles. Vehicle warning system. 4,713,737, 12-15-87, Cl. 362-61.000.

Schambre, Frank. Reciprocable tool mounting module. 4,685,613, 8-11-87, Cl. 234-131.000.

Schamel, Alfred H.: *See*—
Mallory, Robert L.; Schamel, Alfred H.; and Sekel, Stephen M., 4,688,148, Cl. 361-395.000.
Mallory, Robert L.; Schamel, Alfred H.; and Sekel, Stephen M., 4,694,380, Cl. 361-424.000.

Schan, Edward P., Jr.: *See*—
Brahm, David J.; Grinn, James M.; Hepler, Edward L.; and Schan, Edward P., Jr., 4,713,834, Cl. 379-28.000.

Schanin, David J.: *See*—
Caprio, A. Ronald; Cyr, John P.; Geaghan, Bernard O.; Kotschenreuther, Paul C.; Schanin, David J.; and Salett, Ronald M., 4,670,855, Cl. 364-900.000.

Schanin, Jonathan: *See*—
Pinto, Gideon; and Schanin, Jonathan, 4,650,446, Cl. 474-253.000.
Pinto, Gideon; and Schanin, Jonathan, 4,681,646, Cl. 156-157.000.

Schantz, Spencer C. Buzzer with adjustable volume level. 4,654,637, 3-31-87, Cl. 340-402.000.

Schanz, Klaus, to Giulini Chemie GmbH. Process for the production of magaldrate. 4,639,362, 1-27-87, Cl. 423-554.000.

Schanze, Klaus: *See*—
Schuck, Helmut; Foerster, Karl-Heinz; Kuehn, Monika; and Schanze, Klaus, 4,701,757, Cl. 340-825.060.

Schanzle, Roger E.: *See*—
Dornbusch, Arthur H.; and Schanzle, Roger E., 4,641,746, Cl. 206-44.00R.

Schanzlin, David J., to University of Southern California. Controlled rate freezing for cryorefractive surgery. 4,664,110, 5-12-87, Cl. 128-303.100.

Schapansky, Lloyd D. High performance air jack. 4,645,181, 2-24-87, Cl. 254-2.00B.

Schapel, Dietmar: *See*—
Baumgarten, Jorg; Frommer, Werner; Mann, Thies; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,634,672, Cl. 435-182.000.
Baumgarten, Jorg; Frommer, Werner; Mann, Thies; Pascik, Imre; Rast, Hans-Georg; and Schapel, Dietmar, 4,681,851, Cl. 435-262.000.
von Bittera, Miklos; Schapel, Dietmar; von Gizycki, Ulrich; and Rupp, Roland, 4,661,099, Cl. 604-290.000.

Schaper, Hermann: *See*—
Kaltmann, Hans-Joachim; and Schaper, Hermann, 4,696,234, Cl. 102-308.000.

Schaper, Leonard W.: *See*—
Herrero, Victor; and Schaper, Leonard W., 4,675,717, Cl. 357-71.000.

Schaper, Raymond J.: *See*—
Boothe, Jerry F.; and Schaper, Raymond J., 4,650,591, Cl. 210-700.000.

Schaper, Ulf A.; Bloesl, Siegfried; and Bruns, Klaus, to Henkel Kommanditgesellschaft auf Aktien. Oxaspirododecane derivatives and perfume compositions containing them. 4,661,286, 4-28-87, Cl. 252-522.00R.

Schaper, Ulf-Armin; Streschnak, Benno; Bloesl, Siegfried; and Sommer, Walter, to Henkel Kommanditgesellschaft auf Aktien. Salicylic acid esters as perfumes. 4,652,401, 3-24-87, Cl. 252-522.00R.

Schapira, Joseph; Vincent, Jacques; Chaillou, Daniel; and Schild, Jacques, to Compagnie Francaise de Produits Industriels. Process and agents for controlling the swelling of clays in the presence of sea-water and clay-based muds. 4,666,613, 5-19-87, Cl. 252-8.511.

Schapira, Joseph; Ken, Victor; Hoessler, Christian; Cot, Louis; Durand, Jean-Henri; and Pelletier, Patrice, to Compagnie Francaise de Produits Industriels. Bath and process for the chemical conversion of metal substrates with zinc. 4,668,307, 5-26-87, Cl. 148-6.15Z.

Schapira, Joseph; Ken, Victor; Duboys, Francois-Joseph; and Regnard, Patrick, to Compagnie Francaise de Produits Industriels. Process for the treatment by chemical conversion of substrates of zinc or of one of its alloys, concentrate and bath used for performing this process. 4,670,066, 6-2-87, Cl. 148-6.15Z.

Schapira, Joseph; Ken, Victor; Thery, Denis; and Jelodin, Stephane, to Compagnie Francaise de Produits Industriels. Method of zinc phosphatization, activation and refining bath used in said method and corresponding concentrate. 4,678,519, 7-7-87, Cl. 148-6.15Z.

Schappert, Raymond F.: *See*—
Das, Suryya K.; Seiner, Jerome A.; Greigger, Paul P.; Jones, James E.; Schappert, Raymond F.; and Boberski, William G., 4,652,470, Cl. 427-407.100.
Das, Suryya K.; Seiner, Jerome A.; Greigger, Paul P.; Jones, James E.; Schappert, Raymond F.; and Boberski, William G., 4,677,004, Cl. 427-407.100.
Das, Suryya K.; Seiner, Jerome A.; Greigger, Paul P.; Jones, James E.; Schappert, Raymond F.; and Boberski, William G., 4,680,204, Cl. 427-407.100.
Seiner, Jerome A.; and Schappert, Raymond F., 4,652,492, Cl. 428-414.000.

Schar, Hans: *See*—
Ari, Niyazi; Hansen, Diethard; Hoitink, Hendrik; and Schar, Hans, 4,672,523, Cl. 363-50.000.

Schar, Hugo, to BBC Brown, Boveri & Company, Limited. Patient's table. 4,657,235, 4-14-87, Cl. 269-322.000.

Schar, Meinrad, to Ciba-Geigy AG. Apparatus for the liquid-processing of light-sensitive sheet material. 4,647,173, 3-3-87, Cl. 354-319.000.

Schardt, Terry L.: *See*—
Lewis, David O.; McMahon, Lynn A.; and Schardt, Terry L., 4,648,033, Cl. 364-200.000.

Scharer, Bernhard, to Sulzer Brothers Limited. Mounting arrangement for a switching unit for a loom. 4,706,714, 11-17-87, Cl. 139-1.00R.

Scharer, Roger M., to General Binding Corporation. Combined punch and binding machine having an improved pressure bar assembly. 4,645,399, 2-24-87, Cl. 412-16.000.

Scharf, Alois. *See*—
Schmitt, Helwig; and Scharf, Alois, 4,646,757, Cl. 139-27.00R.

Scharf, Curtis R.: *See*—
Hayashi, Katsumi; Hopkins, T. Robert; and Scharf, Curtis R., 4,670,173, Cl. 252-51.50A.

Scharf, Donald R.: *See*—
Conrad, Douglas J.; Kennon, James L.; Macartney, Lawrence J.; and Scharf, Donald R., 4,635,585, Cl. 118-316.000.

Scharf, Helmut; and Krix, Wilfried, to Huls Aktiengesellschaft. Method of utilizing distillation residues of phthalic acid anhydride or maleic acid anhydride. 4,681,046, 7-21-87, Cl. 110-346.000.

Scharf, James E. Grain box cleanout device. 4,712,821, 12-15-87, Cl. 294-19.100.

Scharf, Stephen. Combination base board/corner & floor brush holder. 4,691,403, 9-8-87, Cl. 15-114.000.

Scharf, Stephen J.: *See*—
Mullis, Kary B.; Erlich, Henry A.; Arnheim, Norman; Horn, Glenn T.; Saiki, Randall K.; and Scharf, Stephen J., 4,683,195, Cl. 435-6.000.

Scharfenbergkupplung GmbH: *See*—
Forster, Hilmar; and Lindner, Harald, 4,681,235, Cl. 213-50.000.
Scharmann GmbH & Co.: *See*—
Malzkorn, Matthias, 4,638,550, Cl. 29-568.000.
Malzkorn, Matthias, 4,676,362, Cl. 198-465.100.
Scharnberg, Lorne C.; and Devanathan, Deva, to Katecho, Incorporated. Device for surgically repairing soft tissues and method for making the same. 4,693,720, 9-15-87, Cl. 623-11.000.
Scharnowski, Gerhard: *See*—
Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,656,457, Cl. 338-176.000.
Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,680,436, Cl. 200-82.00E.
Scharnweber, David H.: *See*—
Hoppie, Lyle O.; Chute, Richard; Scharnweber, David H.; and Waichunas, Kenneth P., 4,644,925, Cl. 123-558.000.
Hoppie, Lyle O.; Chute, Richard; Scharnweber, David H.; and Waichunas, Kenneth P., 4,669,433, Cl. 123-276.000.
Hoppie, Lyle O.; Chute, Richard; Scharnweber, David H.; and Waichunas, Kenneth P., 4,672,938, Cl. 123-538.000.
Scharpenberg, Rainer; and Baro, Gunter, to Brown Boveri Reaktor GmbH. Apparatus for inspecting fuel assemblies, particularly for detecting defective fuel rods from complete fuel assemblies of water-cooled nuclear reactors. 4,637,912, 1-20-87, Cl. 376-245.000.
Scharpenberg, Rainer, to Brown Boveri Reaktor GmbH. Method and apparatus for locating defective fuel rod cladding tubes of water-cooled nuclear reactors. 4,655,993, 4-7-87, Cl. 376-252.000.
Scharpenberg, Rainer, to Brown Boveri Reaktor GmbH. Equipment for the inspection of fuel rods of nuclear reactors. 4,683,104, 7-28-87, Cl. 376-251.000.
Scharpey, Wilhelm, to Swiss Aluminium Ltd. Reduction pot. 4,673,481, 6-16-87, Cl. 204-243.00R.
Scharpey, Wilhelm; and Pawlek, Rudolf, to Swiss Aluminium Ltd. Reduction pot for the production of aluminum. 4,683,046, 7-28-87, Cl. 204-243.00R.
Scharpf, Otto H., to Outboard Marine Corporation. Exhaust system with side branch. 4,660,378, 4-28-87, Cl. 60-313.000.
Scharr Industries Inc.: *See*—
Scharr, Jerome M.; and Skolnick, Barry, 4,676,857, Cl. 156-233.000.
Scharr, Jerome M.; and Skolnick, Barry, to Scharr Industries Inc. Method of making microwave heating material. 4,676,857, 6-30-87, Cl. 156-233.000.
Scharton, Terry D.; and Taylor, George B., to Anco Engineers, Inc. Method of pressure pulse cleaning the interior of heat exchanger tubes located within a pressure vessel such as a tube bundle heat exchanger, boiler, condenser or the like. 4,645,542, 2-24-87, Cl. 134-1.000.
Scharton, Terry D.; and Taylor, George B., to Anco Engineers, Inc. Method of pressure pulse cleaning a tube bundle heat exchanger. 4,655,846, 4-7-87, Cl. 134-1.000.
Scharton, Terry D.; and Taylor, George B., to Anco Engineers, Inc. Method of pressure pulse cleaning heat exchanger tubes, upper tube support plates and other areas in a nuclear steam generator and other tube bundle heat exchangers. 4,699,665, 10-13-87, Cl. 134-1.000.
Scharton, Terry D.; Taylor, George B.; and Kidd, Charles, to Anco Engineers, Inc. Method and apparatus for determining the amount of magnetic debris adhering to the exterior of a tube. 4,700,134, 10-13-87, Cl. 324-220.000.
Schartz, Omar. Saddle mount device for a tractor. 4,643,441, 2-17-87, Cl. 280-5.00R.
Scharwaechter, Peter: *See*—
Janssen, Bernd; Koenig, Horst; and Scharwaechter, Peter, 4,663,338, Cl. 514-383.000.
Scharz, Horst: *See*—
Hieber, Helmut; and Scharz, Horst, 4,674,838, Cl. 350-322.000.
Schat, Hermannus: *See*—
Gassmann, Gerhard G.; Schat, Hermannus; Elmis, Herbert; Novotny, Bernd; Kappeler, Otmar; and Ehrhardt, Dietmar, 4,710,814, Cl. 358-143.000.
Schatteman, Etienne A. M.; and Denis, Philippe V., to Staar S.A. Storage device for record discs. 4,664,454, 5-12-87, Cl. 312-13.000.
Schatz, Douglas: *See*—
Reese, George; Spielmaker, Richard; and Schatz, Douglas, 4,679,007, Cl. 333-17.00M.
Schatz, Friedrich: *See*—
Ziemek, Gerhard; and Schatz, Friedrich, 4,674,543, Cl. 138-153.000.
Schatz, Klaus W., to Mobil Oil Corporation. Closed cyclone FCC system with provisions for surge capacity. 4,711,712, 12-8-87, Cl. 208-153.000.
Schatz, Klaus W.: *See*—
Haddad, James H.; Owen, Hartley; and Schatz, Klaus W., 4,654,060, Cl. 55-424.000.
Owen, Hartley; and Schatz, Klaus W., 4,689,206, Cl. 422-144.000.
Schatz, Oskar. Exhaust gas driven supercharger for supercharging internal combustion engines. 4,633,671, 1-6-87, Cl. 60-605.000.
Schatz, Oskar. Internal combustion engine with a positive displacement supercharger mechanically driven from the engine crankshaft. 4,643,156, 2-17-87, Cl. 123-560.000.
Schatz, Oskar. Apparatus for supercharging an internal combustion engine. 4,680,932, 7-21-87, Cl. 60-605.000.
Schatz, Oskar, to Lamprecht, Helmut. Apparatus for the expansion of pressurized, pulsating exhaust gases, more especially the exhaust gases of an internal combustion engine. 4,704,868, 11-10-87, Cl. 60-620.000.
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Schau, Howard, III; and Townsend, Steven C. Structurally degradable root directive tree planter box. 4,665,645, 5-19-87, Cl. 47-25.000.
Schaub, Andres, to CIBA-GEIGY Corporation. Process for fixing dyes and prints with hot steam containing air. 4,659,333, 4-21-87, Cl. 8-476.000.
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Scheibli, Peter; Kanzig, Alex; and Schaub, Andres, 4,647,285, Cl. 8-528.000.
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Fillot, Alain; Gallet, Jean; Paltrier, Sylvain; and Schaub, Bernard, 4,654,196, Cl. 420-525.000.
Schaub, Erwin L.: *See*—
Viola, Frank J.; Schaub, Erwin L.; and Burke, Lawrence H., 4,675,990, Cl. 29-623.000.
Schaub, Fritz, to Sandoz Ltd. α-phenyl- or benzyl-α-cyclopropylalkylene-1H-imidazole- and 1,2,4-triazole-1-ethanols and use against fungus. 4,664,696, 5-12-87, Cl. 71-92.000.
Schaub, Heiner; and Burki, Peter, to Gretag Aktiengesellschaft. Process and apparatus for treating objects forming separate series. 4,705,376, 11-10-87, Cl. 354-298.000.
Schaub, Robert E.: *See*—
Wissner, Allan; Schaub, Robert E.; and Sum, Phaik E., 4,640,913, Cl. 514-77.000.
Wissner, Allan; and Schaub, Robert E., 4,699,990, Cl. 558-169.000.
Schaublin, Donna S.: *See*—
Schaublin, John M.; and Schaublin, Donna S., 4,640,109, Cl. 70-202.000.
Schaublin, Hans-Jurg: *See*—
Kaiser, Albrecht; and Schaublin, Hans-Jurg, 4,645,559, Cl. 156-583.100.
Schaublin, John M.; and Schaublin, Donna S. Removable latch handle locking device. 4,640,109, 2-3-87, Cl. 70-202.000.
Schauder, Colin D., to Westinghouse Electric Corp. Hidden DC-link AC/AC converter using bilateral power switches. 4,642,751, 2-10-87, Cl. 363-159.000.
Schauder, Colin D., to Westinghouse Electric Corp. Matrix converter control system. 4,648,022, 3-3-87, Cl. 363-159.000.
Schauder, Colin D.; and Heinrich, Theodore M., to Westinghouse Electric Corp. Voltage source inverter and variable frequency, constant voltage AC motor drive embodying the same. 4,697,131, 9-29-87, Cl. 318-762.000.
Schauder, Colin D., to Westinghouse Electric Corp. Voltage-controlled field-oriented induction motor control system. 4,707,651, 11-17-87, Cl. 318-800.000.
Schauder, Colin D., to Westinghouse Electric Corp. Vector-controlled unrestricted frequency changer (UFC) system and variable speed AC motor drive using such a system. 4,713,745, 12-15-87, Cl. 363-161.000.
Schaudt Maschinenbau GmbH: *See*—
Belthle, Heinz, 4,696,130, Cl. 51-293.000.
Beyer, Rudolf; Heerdt, Lutz-Peter; and Schemel, Roland, 4,644,700, Cl. 51-237.00T.
Beyer, Rudolf; Heerdt, Lutz-Peter; and Schemel, Roland, 4,675,976, Cl. 29-568.000.
Beyer, Rudolf; Heerdt, Lutz-Peter; and Schemel, Roland, 4,685,251, Cl. 51-166.00T.
Brill, Jurgen; and Schemel, Roland, 4,662,118, Cl. 51-48.00R.
Scheder, Dietmar; and Haug, Georg, 4,651,472, Cl. 51-105.00R.
Schemel, Roland, 4,637,144, Cl. 33-550.000.
Vetter, Ulrich, 4,693,038, Cl. 51-165.720.
Schauer, Friedrich; and Berthold, Hans, to Kabelmetal Electro Gesellschaft mit beschrankter Haftung. Device for transferring current between two contact points which are movable relative to each other. 4,696,523, 9-29-87, Cl. 439-11.000.
Schauer, Friedrich, to Kabelmetal Electro Gesellschaft mit beschrankter Haftung. Method of connecting two electric lines and connection point produced thereby. 4,707,914, 11-24-87, Cl. 29-872.000.
Schauffele, Carl N.: *See*—
Baumeister, Hans-Peter; Greenwald, Roger J.; and Schauffele, Carl N., 4,675,755, Cl. 360-35.100.
Schaulin, Jean-Michel; Cantin, Robert; and Kanat, Yasar, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Marine firing weapon for fighting airborne targets, especially in zenith. 4,674,393, 6-23-87, Cl. 89-33.140.
Schaulin, Rudolf; and Grelat, Maurice, to Ciba-Geigy Corporation. Process for the preparation of 1,4-diamino-2,3-dicyanoanthraquinone. 4,661,292, 4-28-87, Cl. 260-371.000.
Schaulin, Rudolf: *See*—
Grelat, Maurice; and Schaulin, Rudolf, 4,699,715, Cl. 260-371.000.
Schaumann, Wolfgang; Wilhelms, Otto-Henning; Roesch, Androniki; and Kampe, Wolfgang, to Boehringer Mannheim GmbH. Use of adenosine derivatives as anti-allergic compounds and pharmaceutical compositions containing them. 4,704,381, 11-3-87, Cl. 514-46.000.
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Mertens, Alfred; Holck, Jens-Peter; Kampe, Wolfgang; Muller-Beckmann, Bernd; Strein, Klaus; and Schaumann, Wolfgang, 4,710,510, Cl. 514-394.000.
Michel, Helmut; Marzenell, Klaus; Kampe, Wolfgang; Bartsch, Wolfgang; and Schaumann, Wolfgang, 4,642,309, Cl. 514-269.000.
Schaumberg, John P.; Hokanson, Gerard C.; French, James C.; Tunac, Josefino B.; and Underhill, Marjorie A., to Warner-Lambert Co.

pany. 2-chloropentostatin compound having adenosine diaminase inhibitory activity. 4,713,372, 12-15-87, Cl. 514-45.000.
Schaumberger, Alfred: *See*—
Heller, Arthur; Gierlinger, Friedrich; and Schaumberger, Alfred. 4,646,137, Cl. 358-23.000.
Schaus, John M., to Eli Lilly and Company. Octa- and decahydroquinoline intermediates. 4,647,667, 3-3-87, Cl. 546-164.000.
Schaus, John M.; and Titus, Robert D., to Eli Lilly and Company. Process for the preparation of octahydro-oxazolo [4,5-G]quinolines. 4,659,832, 4-21-87, Cl. 546-83.000.
Schaus, John M.; and Titus, Robert D., to Eli Lilly and Company. Octahydro-oxazolo[4,5-g]quinolines derivatives and decahydro quinoline intermediates and their use as dopamine D-2 agonists. 4,698,347, 10-6-87, Cl. 514-293.000.
Schauwecker, Friedrich; and Weber, Walter, to Robert Bosch GmbH. Frame for headlights of motor vehicles. 4,695,928, 9-22-87, Cl. 362-61.000.
Schave, Floyd D., to Crafco, Inc. Sealant melter/applicator with automatic load switching system. 4,692,028, 9-8-87, Cl. 366-22.000.
Schavilje, John N.; and Swick, E. Grant, to Illinois Tool Works Inc. Plastic clip with integral nail. 4,655,423, 4-7-87, Cl. 248-71.000.
Schawann, Jean C.; Caumont, Jean P.; and Falcimaigne, Jean, to Societe Nationale Elf Aquitaine (Production). Guide table for a marine production riser. 4,646,841, 3-3-87, Cl. 166-355.000.
Schawbel Corporation, The: *See*—
Zaborowski, Thaddeus, 4,699,123, Cl. 126-409.000.
Scheberle, James W.; and Smith, Paul K., to J. I. Case Company. Adjustable chair pedestal. 4,657,218, 4-14-87, Cl. 248-411.000.
Schebler, Wilbur A.; Smith, Lesrie W.; and Wettering, Carl A., to Batesville Casket Company, Inc. Laminating apparatus and method. 4,657,608, 4-14-87, Cl. 156-64.000.
Scheck, Georg; Bogner, Martin; Schmidt, Manfred; and Kowatsch, Ulrich, to GEZE GmbH. Releasable cross-country ski binding. 4,639,010, 1-27-87, Cl. 280-615.000.
Scheck, Georg: *See*—
Mettenleiter, Karl; Storandt, Ralf; and Scheck, Georg, 4,663,800, Cl. 16-51.000.
Scheck, Michael: *See*—
Bastanzuri, Remberto P., 4,680,088, Cl. 162-4.000.
Schecker, Edward J.: *See*—
Munich, August E.; and Schecker, Edward J., 4,670,757, Cl. 342-450.000.
Schedele, Helmut, to Siemens Aktiengesellschaft. Polarized electromagnetic relay. 4,672,344, 6-9-87, Cl. 335-230.000.
Scheder, Dietmar; and Haug, Georg, to Schaudt Maschinenbau GmbH. Method of and machine for grinding rotary workpieces. 4,651,472, 3-24-87, Cl. 51-105.00R.
Schedwin, Sven-Erik. Arrangement for transferring heavy workpieces. 4,664,579, 5-12-87, Cl. 414-223.000.
Scheefers, Hans, to Organogen Medizinisch-Molekularbiologische Forschungsgesellschaft m.b.H. Carrier material for use in immune determinations. 4,716,122, 12-29-87, Cl. 436-532.000.
Scheel, Hartmut: *See*—
Asten, Wolfgang V.; Dorner, Karl H.; Scheel, Hartmut; and Wurstle, Volker, 4,715,903, Cl. 148-11.50A.
Scheel, Russell H.: *See*—
Gutekunst, Stanley K.; Scheel, Russell H.; and Ziegenfus, Barry L., 4,648,325, Cl. 104-166.000.
Scheeler, James W.: *See*—
Collier, John D.; and Scheeler, James W., 4,686,342, Cl. 219-58.000.
Scheer, Berthold: *See*—
Altmeyer, Werner; Jakobs, Ewald; and Scheer, Berthold, 4,666,349, Cl. 407-118.000.
Scheer, Erich., to Fichtel & Sachs AG. Clutch unit of the diaphragm spring type. 4,671,398, 6-9-87, Cl. 192-70.270.
Scheer, Martin: *See*—
Bischoff, Erwin; Muller, Hartwig; Saicher, Olga; Berschauer, Friedrich; Scheer, Martin; de Jong, Anno; and Frobel, Klaus, 4,670,260, Cl. 424-121.000.
Boshagen, Horst; Stoltefuss, Jurgen; Berschauer, Friedrich; de Jong, Anno; and Scheer, Martin, 4,670,423, Cl. 514-63.000.
Ingendoh, Axel; Berschauer, Friedrich; Becker, Benedikt; Stendel, Wilhelm; Homeyer, Bernhard; Scheer, Martin; de Jong, Anno; Hanssler, Gerd; and Reinecke, Paul, 4,678,797, Cl. 514-378.000.
Lockhoff, Oswald; Stadler, Peter; Scheer, Martin; Berschauer, Friedrich; and de Jong, Anno, 4,680,287, Cl. 514-42.000.
Scheer, Wolfgang: *See*—
Lechner, Fritz; Heissler, Herbert; Scheer, Wolfgang; Siebels, Wolfgang; and Ascherl, Rudolf, 4,714,467, Cl. 623-16.000.
Scheevel, Mark R.: *See*—
Logsdon, Gary L.; Scheevel, Mark R.; and Williams, Frank A., Jr., 4,644,464, Cl. 364-200.000.
Logsdon, Gary L.; Scheevel, Mark R.; and Bolton, Brent C., 4,654,780, Cl. 364-200.000.
Schefczik, Ernst, to BASF Aktiengesellschaft. Preparation of cyano-substituted enol ethers. 4,667,051, 5-19-87, Cl. 558-375.000.
Schefer, Eli L., to Revlon, Inc. Cosmetic applicator. 4,662,385, 5-5-87, Cl. 132-88.500.
Schefer, Kurt, to Rieter Machine Works, Ltd. Thread guiding and screening element for use in filament winder. 4,709,866, 12-1-87, Cl. 242-18.00A.
Schefer, Kurt: *See*—
Flueli, Adolf; Oswald, Heinz; and Schefer, Kurt, 4,641,793, Cl. 242-18.0PW.
Scheff, Luben: *See*—
Pupillo, Dominic S.; and Scheff, Luben, 4,679,836, Cl. 292-216.000.
Scheffel, Bernd W.: *See*—
Scheffel, Walter; and Scheffel, Bernd W., 4,655,262, Cl. 139-435.000.
Scheffel, Gary W.; Medvick, Richard J.; and Steiss, William C., to Nupro Company. Check valve. 4,637,430, 1-20-87, Cl. 137-516.290.
Scheffel, Gary W., to Nupro Company. Stem tip seal. 4,659,060, 4-21-87, Cl. 251-332.000.
Scheffel, Gary W., to Nupro Company. Seal ring shutoff stem tip. 4,659,061, 4-21-87, Cl. 251-332.000.
Scheffel, Gary W.: *See*—
Kolenc, Terrence J.; and Scheffel, Gary W., 4,671,490, Cl. 251-335.200.
Simonelli, James K.; and Scheffel, Gary W., 4,687,180, Cl. 251-122.000.
Simonelli, James K.; Scheffel, Gary W.; and Jagielo, Joseph J., 4,687,181, Cl. 251-223.000.
Scheffel, Walter; and Scheffel, Bernd W., to Scheffel, Walter. Reeds for air jet looms. 4,655,262, 4-7-87, Cl. 139-435.000.
Scheffer, Bruce A. Method and apparatus for preventing slinging of liquid in a liquid applicator machine. 4,703,715, 11-3-87, Cl. 118-203.000.
Scheffer, Daniel G.; and Brock, Marilyn A., to Ohaus Scale Corporation. Toggle-type adjustable mounting for weighing scale flexures. 4,697,658, 10-6-87, Cl. 177-229.000.
Scheffer, Daniel G.: *See*—
Brock, Marilyn A.; and Scheffer, Daniel G., 4,679,642, Cl. 177-164.000.
Scheffer, Donald E.: *See*—
Kapoor, Anoop; Choby, Edward J.; Kramer, Thomas J.; Ranieri, James E.; Roth, Charles H., Jr.; Scheffer, Donald E.; Spehar, John E., Jr.; Bessko, Csaba; and Blumstein, Robert M., 4,715,111, Cl. 29-723.000.
Scheffer, Louis G., Sr. Method for making channel letters for signs. 4,701,991, 10-27-87, Cl. 29-450.000.
Scheffer, Terry J.: *See*—
Amstutz, Hermann; Heimgartner, Dieter; Kaufmann, Meinolph; and Scheffer, Terry J., 4,634,229, Cl. 350-346.000.
Amstutz, Hermann; Heimgartner, Dieter; Kaufman, Meinolph; and Scheffer, Terry J., 4,697,884, Cl. 350-334.000.
Amstutz, Hermann; Kaufmann, Meinolph; Nedring, Jurgen; and Scheffer, Terry J., 4,705,359, Cl. 350-341.000.
Scheffers, Alexander: *See*—
van Dijken, Johannes; and Scheffers, Alexander, 4,701,414, Cl. 435-163.000.
Scheffler, Charles E.: *See*—
Lescoe, Paul J.; and Scheffler, Charles E., 4,693,320, Cl. 169-61.000.
Scheffler, Gerhard: *See*—
Engel, Jurgen; Jakovlev, Vladimir; Nickel, Bernd; Thiemer, Klaus; and Scheffler, Gerhard, 4,643,995, Cl. 514-210.000.
Engel, Jurgen; and Scheffler, Gerhard, 4,704,387, Cl. 514-212.000.
Scheffler, Ingolf: *See*—
Duck, Edward W.; and Scheffler, Ingolf, 4,716,070, Cl. 428-192.000.
Scheffler, Peter; Mauser, Wilfried; and Grazianski, Thomas. Process and apparatus for mixing a liquid sample to be analyzed. 4,664,526, 5-12-87, Cl. 366-106.000.
Scheflow, Oliver W.; Roblin, William J., III; Kirsch, Richard C.; and Wunder, William G., to Bettcher Industries, Inc. Rotary shcer for comestible products. 4,685,364, 8-11-87, Cl. 83-68.000.
Schegolev, Igor S.: *See*—
Lidorenko, Nikolai S.; Gorun, Viktor T.; Muchnik, Grigory F.; Karichev, Zia R.; Shteinberg, Alexandr N.; Lev, Mikhail B.; Moiseev, Viktor I.; Schegolev, Igor S.; Ilin, Vladimir M.; and Smirnov, Igor I., 4,666,668, Cl. 422-48.000.
Schegolev, Viktor A.: *See*—
Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Baranov, Alexandr I.; Danilyak, Sergei N.; Schegolev, Viktor A.; Chernoivanov, Vladimir A.; Voloshin, Vitaly I.; Gavva, Viktor M.; and Bernadsky, Vsevolod N., 4,680,014, Cl. 434-234.000.
Scheib, Thomas J., to Babcock & Wilcox Company, The. Tieline control, 4,670,713, 6-2-87, Cl. 324-103.00R.
Scheibe, Wolfgang, to L'Orange GmbH. Fuel-injection device for an internal-combustion engine. 4,658,824, 4-21-87, Cl. 123-472.000.
Scheiber, Peter. Signal re-distribution, decoding and processing in accordance with amplitude, phase, and other characteristics. 4,704,728, 11-3-87, Cl. 381-22.000.
Scheiblhofer, Gerhard: *See*—
Eger, Wolfgang; and Scheiblhofer, Gerhard, 4,650,953, Cl. 219-121.0PQ.
Scheibli, Peter; Kanzig, Alex; and Schaub, Andres, to Ciba-Geigy Corporation. Process for printing cellulosic fibres with reactive dye and C_{3-18} aliphatic carboxylate salt fixing agent. 4,647,285, 3-3-87, Cl. 8-528.000.
Scheibli, Peter; and Seitz, Karl, to Ciba-Geigy Corporation. Process for dyeing or printing textile fibre materials with reactive dye containing vinyl sulfonyl-type group and chloro-triazinyl amino group. 4,713,082, 12-15-87, Cl. 8-549.000.
Scheibner, Gerald H.; Dorsey, Robert T.; Engle, James D.; and Henderson, William E., deceased (by Henderson, Ann A., Heir), to First Brands Corporation. Process and apparatus for forming integral interlocking closure film stock. 4,676,851, 6-30-87, Cl. 156-66.000.
Scheid, William J. Electrical safety drop disconnect. 4,698,717, 10-6-87, Cl. 361-1.000.

Scheid, William J.: *See*—
Kurcbart, Roberto; and Scheid, William J., 4,654,631, Cl. 340-311.100.

Scheide, Jurgen D.; and Brand, Karl E., to General Spice, Inc. Process for the extraction of protein from soy flour. 4,704,289, 11-3-87, Cl. 426-431.000.

Scheidegger, Christian: *See*—
Franz, Reinhard; Dittmar, Wilfried; Scheidegger, Christian; and Frohlich, Roland, 4,644,840, Cl. 84-1.010.

Scheiderer, Gerrit: *See*—
Bender, Richard; Bendler, Hellmut; Scheiderer, Gerrit; and Winkler, Hans, 4,660,473, Cl. 102-223.000.

Scheiderich, Robert F.: *See*—
Comper, Louis F.; and Scheiderich, Robert F., 4,636,407, Cl. 427-133.000.

Scheier, Donald J., to Simon-Johnson, Inc. Machine for cutting up poultry into a number of pieces. 4,669,148, 6-2-87, Cl. 17-11.000.

Schein, Philip S.: *See*—
McPherson, Eugene; and Schein, Philip S., 4,656,159, Cl. 514-25.000.

Scheinberg, Samuel. Manually formed splints having sheet metal structure. 4,676,233, 6-30-87, Cl. 128-87.00R.

Scheinert, Wolfgang: *See*—
Ingendoh, Axel; Scheinert, Wolfgang; Becker, Benedikt; Halcour, Kurt; and Stendel, Wilhelm, 4,681,892, Cl. 514-378.000.

Scheingold, William S.: *See*—
Marks, Richard L.; Scheingold, William S.; and Smith, Ronald M., 4,657,325, Cl. 339-17.0CF.

Scheinpflug, Hans: *See*—
Anderson, John; Homeyer, Bernhard; Kuhle, Engelbert; Scheinpflug, Hans; Zeck, Walter M.; and Simonet, Donald E., 4,656,163, Cl. 514-84.000.
Holmwood, Graham; Stetter, Jorg; Buchel, Karl H.; Reinecke, Paul; Brandes, Wilhelm; and Scheinpflug, Hans, 4,672,134, Cl. 549-551.000.

Scheipner, Robert H., to Rheinmetall GmbH. Simplified remote sighting of artillery gun. 4,674,395, 6-23-87, Cl. 89-41.190.

Scheithauer, Richard A.; Vanderpool, Clarence D.; Miller, Michael J.; and Gingerich, Richard G. W., to GTE Products Corporation. Process for producing cobalt metal powder. 4,690,710, 9-1-87, Cl. 75-0.5AA.

Scheja, Erich, to ABG Apparatebau-Gesellschaft mbH. Device for making as well as filling of bags. 4,662,147, 5-5-87, Cl. 53-137.000.

Schekulin, Karl: *See*—
Grossmann, Horst; Kalbacher, Klaus; Kolesch, Claus; and Schekulin, Karl, 4,657,088, Cl. 173-13.000.

Schelby, Robert L.: *See*—
Tucker, James L.; Landen, Terry R.; and Schelby, Robert L., 4,710,115, Cl. 425-117.000.

Scheldorf, Gary O.: *See*—
Adams, Glen O.; Sturgeon, Gerald E.; and Scheldorf, Gary O., 4,664,608, Cl. 418-63.000.

Schelhaas, Douglas D.: *See*—
Kemper, Dennis C.; and Schelhaas, Douglas D., 4,660,867, Cl. 285-256.000.

Schelhas, Klaus-Dieter; and Biehl, Gerd, to Orthoplant Endoprothetik GmbH. Hip cup for a hip joint acetabular prosthesis. 4,715,859, 12-29-87, Cl. 623-22.000.

Schelhas, Peter: *See*—
Gmelin, Karl; Kubach, Hans; Maisch, Wolfgang; Peters, Klaus-Jurgen; and Schelhas, Peter, 4,648,368, Cl. 123-454.000.

Schelhorn, Robert L.; and Matier, Colleen A., to RCA Corporation. High power thick film resistor. 4,647,900, 3-3-87, Cl. 338-314.000.

Schell, Ferenc, to Polytex AG. Gripper head. 4,687,241, 8-18-87, Cl. 294-61.000.

Schell, Gene P., to LTV Aerospace and Defense Company. Mechanism for raising, rotating and lowering a part. 4,703,922, 11-3-87, Cl. 269-61.000.

Schellenberg, Karl A.; and Shaeffer, James, to Eastern Virginia Medical Authority/Med. Ctr. Hosp. Method of protecting animals against ionizing radiation. 4,676,979, 6-30-87, Cl. 424-80.000.

Schellenberg, Lutz; Hamacher, Matthias; and Broadbent, Ronald, to Gerhard Collardin GmbH. Autodeposition post-bath rinse process. 4,636,264, 1-13-87, Cl. 148-6.200.

Schellenberg, Lutz; Hamacher, Matthias; and Ahmed, Bashir M., to Gerhard Collardin GmbH. Electrolyte stabilization of lattices. 4,639,319, 1-27-87, Cl. 210-651.000.

Scheller, Alfred K., to Centre National d'Etudes Spatiales. Motor involving the control of the mixture ratio of fuel and oxidizer for a liquid fuel motor by measuring flows, and control systems for carrying out this process. 4,697,416, 10-6-87, Cl. 60-240.000.

Scheller, Hans-Ulrich, to Wurttembergische Parfumerie-Fabrik GmbH. Dentifrice for hypersensitive teeth. 4,634,589, 1-6-87, Cl. 424-49.000.

Scheller, Hans-Ulrich, to Wurttembergische Parfumerie-Fabrik GmbH. Dentifrice for hypersensitive teeth. 4,710,372, 12-1-87, Cl. 424-49.000.

Scheller, Holger, to Guilford Mills, Inc. Napped warp-knitted fabric and method of producing same. 4,712,281, 12-15-87, Cl. 28-162.000.

Scheller, James I. Apparatus for washing vehicles. 4,715,391, 12-29-87, Cl. 134-57.00R.

Scheller, Wilhelm G. Flywheel energy storage dev · 4,668,885, 5-26-87, Cl. 310-90.500.

Schellhamer, Alan J.; Barnett, Daniel J.; and Khan, Abdul Q., to Betz Laboratories, Inc. Process for inhibiting aluminum hydroxide deposition in papermaking felts. 4,715,931, 12-29-87, Cl. 162-199.000.

Schelling, Arthur W.: *See*—
Andrews, George E.; Davis, Paul C.; Farley, Dennis C.; Kravitz, Stanley H.; Meeker, Thrygve R.; Petersen, Owe G.; and Schelling, Arthur W., 4,715,049, Cl. 375-106.000.

Schellmann, Klaus, to Kolbenschmidt Aktiengesellschaft. Light alloy piston. 4,648,309, 3-10-87, Cl. 92-233.000.

Schellmann, Klaus: *See*—
Wacker, Erich; Landau, Ulrich; Sander, Wilfried; and Schellmann, Klaus, 4,683,808, Cl. 92-208.000.

Schellstede, Herman J.; and Youngblood, James F., to Roy, Leon E., a part interest. Single pass mud rejuvenation system and method. 4,639,258, 1-27-87, Cl. 55-52.000.

Schellstede, Herman J. Well penetration apparatus and method. 4,640,362, 2-3-87, Cl. 166-298.000.

Schelm, Sandra L., to Colgate-Palmolive Company. Packaged dental cream. 4,716,034, 12-29-87, Cl. 424-49.000.

Schelm, Sandra L., to Colgate-Palmolive Company. Stabilized dental cream containing vegetable oil. 4,716,036, 12-29-87, Cl. 424-57.000.

Schema, Anthony C., to Truth Incorporated. Concealed freezer hinge. 4,658,473, 4-21-87, Cl. 16-290.000.

Schema, Anthony C., to Truth Incorporated. Telescoping pole crank assembly. 4,715,089, 12-29-87, Cl. 16-115.000.

Schembri, John J., to Pacific Bell. Patch unit for fiber optic distribution network. 4,673,246, 6-16-87, Cl. 350-96.220.

Schembri, John J., to Pacific Bell. Optical fiber bandwidth limiting method. 4,696,063, 9-22-87, Cl. 455-612.000.

Schemel, Hans-Peter: *See*—
Bauer, Peter-Josef; Mannle, Erik; Rapp, Kurt; Schemel, Hans-Peter; and Schmidt, Lothar, 4,655,180, Cl. 123-361.000.

Schemel, John H. Floating cylindrical mandrel and method for producing tubing. 4,655,068, 4-7-87, Cl. 72-208.000.

Schemel, Roberto: *See*—
Rodriguez, Domingo; and Schemel, Roberto, 4,678,557, Cl. 208-112.000.

Schemel, Roland, to Schaudt Maschinenbau GmbH. Apparatus for monitoring the diameters of crankpins during treatment in grinding machines. 4,637,144, 1-20-87, Cl. 33-550.000.

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Beyer, Rudolf; Heerdt, Lutz-Peter; and Schemel, Roland, 4,644,700, Cl. 51-237.00T.
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Schen, Michael A.: *See*—
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Hafele, Walter; and Schenk, Bernhard, 4,692,102, Cl. 417-296.000.

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Schenke, Robert W.; and Schenke, Reynold A., 4,680,683, Cl. 362-190.000.
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Schenter, Robert E.: *See*—
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Schentrup, Lawrence M. Helicopter toy. 4,708,682, 11-24-87, Cl. 446-36.000.
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Schepke, Joseph W.: *See*—
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Scher, Herbert B., to Stauffer Chemical Company. Multiple types of microcapsules and their production. 4,643,764, 2-17-87, Cl. 71-100.000.
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Scherer, Manfred, to Mannesmann Rexroth GmbH. Casting mold with feeder. 4,665,968, 5-19-87, Cl. 164-360.000.
Scherer, Manfred, to Krauss-Maffei A.G. Pressure centrifuge. 4,708,711, 11-24-87, Cl. 494-41.000.
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Scherer, William C.; Tam, Jimmy W.; and Luebeck, Duane A., to Graco, Inc. Accumulation resistant tip guard. 4,685,621, 8-11-87, Cl. 239-288.000.
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Hanna, Gayda; and Vadino, Winston A., 4,695,591, Cl. 514-781.000.
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Scherrer, Robert A.: *See*—
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Lange, Russell C.; and Scheuerlein, Roy E., 4,651,183, Cl. 357-23.600.
Noble, Wendell P., Jr.; Scheuerlein, Roy E.; and Walker, William W., 4,675,982, Cl. 29-576.00B.

Scheuermann, Helmut, to ANT Nachrichtentechnik GmbH. Circuit arrangement for simulating a resistive elementary two port device for use in a wave digital filter. 4,716,537, 12-29-87, Cl. 364-724.000.

Scheufler, Bernd: *See*—
Dreyer, Heinz; Scheufler, Bernd; Wiemeyer, Benno; and Luhrmann, Johannes, 4,694,759, Cl. 111-85.000.

Scheumann, Bernd K.: *See*—
DeMatos, Henrique V.; Scheumann, Bernd K.; and Culbertson, Charles M., II, 4,675,790, Cl. 361-433.000.

Scheuneman, James H., to Sperry Corporation. Multiple port memory with port decode error detector. 4,649,475, 3-10-87, Cl. 364-200.000.

Scheuneman, James H.; and Burns, Gary D., to Sperry Corporation. Multiple output port memory storage module. 4,652,993, 3-24-87, Cl. 364-200.000.

Scheuneman, James H.; Meyer, Joseph H.; and Mackenthun, Donald W., to Unisys Corporation. Partial duplication of pipelined stack with data integrity checking. 4,697,233, 9-29-87, Cl. 364-200.000.

Scheurenbrand, Dieter: *See*—
Kleineberg, Wolfgang; and Scheurenbrand, Dieter, 4,697,612, Cl. 137-39.000.

Scheurer, Friedrich: *See*—
Zollmeyer, Willi; and Scheurer, Friedrich, 4,697,662, Cl. 180-71.000.
Scheurer, Robert S. Tube cover. 4,635,581, 1-13-87, Cl. 114-346.000.
Scheurer, Robert S.; and Hancock, Kendal, to Scheurer, Robert S. Cam locked slideable foot binder. 4,642,060, 2-10-87, Cl. 441-70.000.
Scheurer, Robert S.; and Scheurer, Stephen M. Flotation garment. 4,668,202, 5-26-87, Cl. 441-112.000.
Scheurer, Robert S.; and Hancock, Kendal, to Scheurer, Robert S. Water ski binder. 4,673,365, 6-16-87, Cl. 441-70.000.
Scheurer, Stephen M.: *See*—
Scheurer, Robert S.; and Scheurer, Stephen M., 4,668,202, Cl. 441-112.000.
Scheurl, Robert: *See*—
Boedecker, Kay; Scheurl, Robert; and Strasser, Hans-Erwin, 4,655,690, Cl. 417-53.000.
Scheuter, Felix; and Schindler, Ernst, to Haenni & Cie. AG. Weighing device for weighing wheel loads. 4,673,049, 6-16-87, Cl. 177-209.000.
Scheuter, Karl R.: *See*—
Fischer, Gerhard; and Scheuter, Karl R., 4,709,395, Cl. 382-54.000.
Scheve, Heinrich: *See*—
Ulrichs, Klaus; Hibbel, Joseph; Schmidt, Volkmar; Lieder, Bernhard; Scheve, Heinrich; Schulze-Frenking, Burchard; Hofs, Wolfgang; and Nottebohm, Jurgen, 4,699,773, Cl. 423-396.000.
Scheve, William J. Illuminated display with beaded light-transmitting image. 4,715,137, 12-29-87, Cl. 40-546.000.
Scheven, Gunter: *See*—
Baumgart, Rudolf; Martin, Manfred; Low, Lothar; and Scheven, Gunter, 4,681,720, Cl. 264-150.000.
Schewe, Herbert, to Siemens Aktiengesellschaft. Thin-film magnetic head for perpendicular magnetization having a ring shaped magnetic read/write conducting body and write coil winding arranged outside the conducting body. 4,652,956, 3-24-87, Cl. 360-123.000.
Schewe, Herbert; and Diepers, Heinrich, to Siemens Aktiengesellschaft. Magnetic write/read head for recording medium which can be magnetized perpendicularly comprising a magnetically conducting body having two pole legs with means for inhibiting operation of at least one pole leg during writing. 4,652,957, 3-24-87, Cl. 360-125.000.
Schewe, Herbert, to Siemens Aktiengesellschaft. Thin-film magnetic head with a double gap for a recording medium to be magnetized vertically. 4,672,493, 6-9-87, Cl. 360-125.000.
Schewe, Herbert, to Siemens Aktiengesellschaft. Combined magnetic write and read head for a recording medium which can be magnetized perpendicularly. 4,675,766, 6-23-87, Cl. 360-123.000.
Schewe, Herbert, to Siemens Aktiengesellschaft. Thin-film magnetic head for writing and reading for a recording medium that can be magnetized vertically. 4,677,515, 6-30-87, Cl. 360-123.000.
Schewe, Herbert; and Diepers, Heinrich, to Siemens Aktiengesellschaft. Thin-film magnetic head for perpendicular (vertical) recording. 4,703,382, 10-27-87, Cl. 360-125.000.
Schewe, Herbert: *See*—
Diepers, Heinrich; and Schewe, Herbert, 4,639,811, Cl. 360-125.000.
Schewe, Tankred; Strumpf, Thomas; Rapoport, Samuel M.; Zanke, Dieter; Slapke, Jurgen; Kuhn, Hartmut; Lyr, Horst; and Grupe, Renate, to VEB Arzneimittelwerk Dresden. Hydroxamic acid and pharmaceutical preparations containing the same. 4,670,469, 6-2-87, Cl. 514-575.000.
Schewinski, Hartmut: *See*—
Grundken, Dieter; Redder, Manfred; and Schewinski, Hartmut, 4,705,160, Cl. 198-735.000.
Schoop, Gunther-Dietmar; Roling, Franz; Grundken, Dieter; Redder, Manfred; Schewinski, Hartmut; and Temme, Helmut, 4,667,811, Cl. 198-735.000.
Scheydecker, Jacques: *See*—
Helffer, Bernard; and Scheydecker, Jacques, 4,679,785, Cl. 271-227.000.
Schiappacasse, Russell F.: *See*—
Gerace, Michael J.; Krysiak, Gary D.; and Schiappacasse, Russell F., 4,699,940, Cl. 524-296.000.
Gerace, Michael J.; Krysiak, Gary D.; and Schiappacasse, Russell F., 4,710,411, Cl. 428-34.000.
Schiapparelli Farmaceutici S.p.A.: *See*—
Strumia, Ettore, 4,675,314, Cl. 514-75.000.
Schick, David L.: *See*—
Schumann, Gary M.; and Schick, David L., 4,633,904, Cl. 137-625.150.
Schick, Frank: *See*—
Heel, Helmut; Claussen, Reimer; and Schick, Frank, 4,666,096, Cl. 242-36.000.
Schick, Gerald: *See*—
Baumann, Karl-Heinz; Schick, Gerald; Kassing, Lothar; Bossenmaier, Alban; and Brambilla, Luigi, 4,715,468, Cl. 180-271.000.
Schick, Hans; Kolk, Erich; Fauth, Karl-Heinz; and Mohr, Heinrich, to BASF Aktiengesellschaft. Polymerization of isobutylene. 4,691,072, 9-1-87, Cl. 585-525.000.
Schick, Jean-Francois, to Goro S.A. Device for providing an articulated coupling between two complementary series of belt-fasteners. 4,641,398, 2-10-87, Cl. 24-33.00R.
Schick, Jean-Francois, to Goro S.A. Flexible pin for coupling and articulation of fastening staples of a conveyor belt. 4,671,403, 6-9-87, Cl. 198-844.000.
Schickaneder, Helmut; Hoxer, Klaus; and Ahrens, Kurt H., to Ludwig Heumann & Co. GmbH. 1,3-dioxolanyl derivatives, a process for their preparation, their use and pharmaceutical preparations containing these compounds. 4,634,700, 1-6-87, Cl. 514-227.000.
Schickaneder, Helmut; and Ahrens, Kurt H., to Ludwig Heumann & Co. GmbH. Process for the production of 4-amino-6,7-dimethoxy-2-[4-(furo-2-yl)-piperazin-1-yl]-quinazoline and physiologically compatible salts thereof. 4,647,684, 3-3-87, Cl. 558-8.000.
Schickaneder, Helmut; Postius, Stefan; Szelenyi, Istvan; Morsdorf, Peter; Herter, Rolf; and Ahrens, Kurt H., to Ludwig Heumann & Co. GmbH. Alkanol derivatives, and pharmaceutical preparation containing these compounds. 4,659,721, 4-21-87, Cl. 514-326.000.
Schickaneder, Helmut: *See*—
Herter, Rolf; Schickaneder, Helmut; Morsdorf, Peter; Postius, Stefan; Szelenyi, Istvan; and Ahrens, Kurt H., 4,666,921, Cl. 514-326.000.
Postius, Stefan; Herter, Rolf; Morsdorf, Peter; Schickaneder, Helmut; Szelenyi, Istvan; and Ahrens, Kurt H., 4,656,180, Cl. 514-316.000.
Schickfluss, Rudolf: *See*—
Hahnke, Manfred; Kuhn, Reinhard; Hahnle, Reinhard; and Schickfluss, Rudolf, 4,689,050, Cl. 8-639.000.
Schide, John N.: *See*—
Galvin, Aaron A.; Mason, Douglas L.; Leff, Kenneth J.; Schide, John N.; and Giffone, Ralph A., 4,687,924, Cl. 250-216.000.
Schiebel, Richard A., to Texas Instruments Incorporated. Two level charge imaging matrix design with stepped insulator. 4,658,277, 4-14-87, Cl. 357-24.000.
Schiebel, Ulrich: *See*—
Conrads, Norbert; Schiebel, Ulrich; and Kirchhoff, Rolf, 4,635,072, Cl. 346-1.100.
Schieber, Franz, to Conradty Nurnberg GmbH & Co., KG. Self-supporting, dimensionally stable carbon composite member and a method of producing it. 4,654,242, 3-31-87, Cl. 428-36.000.
Schieber, Franz; Zollner, Dieter; Lauterbach, Inge; Koziol, Konrad; Zollner, Christine; and Taube, Thomas, to Arc Technologies Systems Ltd. Protective coating of temperature resistant materials for the metal shaft of combination electrodes for the electric steel production. 4,698,825, 10-6-87, Cl. 373-93.000.
Schieber, Franz, to C. Conradty Nurnberg GmbH & Co. KG. Polygranular carbon member. 4,704,327, 11-3-87, Cl. 428-338.000.
Schieber, Hans, to Universal Maschinenfabrik Dr. Rudolf Schieber GmbH & Co. KG. Double head flat knitting machine. 4,640,103, 2-3-87, Cl. 66-64.000.
Schieber, Hans; and Gettner, Otto, to Universal Maschinenfabrik Dr. Rudolf Schieber GmbH & Co. KG. Method for determining and correcting the length of a piece of knitting produced on a flat knitting machine. 4,679,412, 7-14-87, Cl. 66-71.000.
Schieber, John R.: *See*—
Rodgers, James C.; and Schieber, John R., 4,664,528, Cl. 366-142.000.
Schiedel GmbH & Co.: *See*—
Januschkowetz, Gerhard, 4,713,944, Cl. 62-480.000.
Schieder, Rudolf: *See*—
Telle, Helmut; Schieder, Rudolf; Raue, Roderich; and Eckstein, Udo, 4,670,882, Cl. 372-53.000.
Schiefer, Erwin, to Hilti Aktiengesellschaft. Slotted anchoring bush. 4,673,322, 6-16-87, Cl. 411-40.000.
Schieferstein, Ludwig; Zeidler, Ulrich; and Hensen, Hermann, to Henkel Kommanditgesellschaft auf Aktien. Block-copolymeric polyglycol ethers as solution promoters for oil-soluble perfume oils. 4,650,602, 3-17-87, Cl. 252-522.00R.
Schieferstein, Ludwig; Hollenberg, Detlef; and Maak, Norbert, to Henkel Kommanditgesellschaft auf Aktien. Acrylate dispersion and its use for thickening hydrogen peroxide preparations. 4,685,931, 8-11-87, Cl. 8-406.000.
Schiehser, Guy A.: *See*—
Abou-Gharbia, Magid A.; and Schiehser, Guy A., 4,709,027, Cl. 544-6.000.
Schiek, James M., to Brunswick Corporation. Marine drive gear case lubrication system. 4,650,430, 3-17-87, Cl. 440-88.000.
Schiek, Oswald. Optical arrangement for photometrical analysis measuring devices. 4,707,131, 11-17-87, Cl. 356-73.000.
Schiek, Robert C., to Ciba-Geigy Corporation. Iron blue pigments and process for preparation. 4,681,638, 7-21-87, Cl. 106-309.000.
Schiel, Christian; and Bauder, Albrecht, to J. M. Voith GmbH. Roll for treating webs, preferably webs of paper. 4,639,990, 2-3-87, Cl. 29-116.00R.
Schiel, Christian, to J. M. Voith GmbH. Extended nip press with heating effects avoidance. 4,643,802, 2-17-87, Cl. 162-358.000.
Schiel, Christian, to J. M. Voith, GmbH. Steam heated drying cylinder for paper making. 4,663,864, 5-12-87, Cl. 34-125.000.
Schiel, Christian, to J.M. Voith GmbH. Spur-gear system. 4,676,117, 6-30-87, Cl. 74-421.00R.
Schiel, Christian; and Kotitschke, Herbert, to J.M. Voith GmbH. Stone pressure roll for a web of fibers. 4,691,420, 9-8-87, Cl. 29-116.00R.
Schiel, Christian, to J. M. Voith GmbH. Press roll with adjustable sag. 4,691,421, 9-8-87, Cl. 29-116.0AD.
Schiel, Christian: *See*—
Mullner, Josef; Schiel, Christian; and Steiner, Karl, 4,707,222, Cl. 162-205.000.
Schiel, Reinhard: *See*—
Demoulin, Jean; Hemmer, Walter; and Schiel, Reinhard, 4,647,112, Cl. 299-81.000.
Demoulin, Jean; Hemmer, Walter; and Schiel, Reinhard, 4,668,018, Cl. 299-81.000.

Schield, John A.: *See*—
Naiman, Michael I.; Schield, John A.; and Cunningham, Lawrence J., 4,708,993, Cl. 525-356.000.

Schiele, August; and Huber, Wolfgang, to Kuka Wehrtechnik GmbH. Automatic gun loading device for a tank. 4,640,181, 2-3-87, Cl. 89-46.000.

Schiele, August, to Kuka Wehrtechnik GmbH. Apparatus for supplying cartridge belts from a magazine to a machine gun. 4,686,887, 8-18-87, Cl. 89-33.160.

Schiele, Herbert: *See*—
Alstetter, Franz; Schiele, Herbert; Sedlmayer, Peter; and Hultsch, Gunther, 4,691,448, Cl. 34-8.000.

Schiefer, Leroy, to BankAmerica Corporation. Fuel additive for use in alcohol fuels. 4,668,245, 5-26-87, Cl. 44-53.000.

Schieler, Leroy, to BankAmerica Corporation. Liquid level indicating device. 4,671,121, 6-9-87, Cl. 73-317.000.

Schieltz, Denise S.: *See*—
Chow, Hector; Melling, Hugh; and Schieltz, Denise S., 4,633,861, Cl. 128-305.000.
Chow, Hector; Melling, Hugh; and Schieltz, Denise S., 4,633,874, Cl. 128-334.00R.

Schiemann, Roland; and Haas, Fritz, to Develop Dr. Eisbein GmbH & Co. Driving mechanism for an exposure carriage of a copying machine. 4,671,649, 6-9-87, Cl. 355-51.000.

Schier, J. Alan: *See*—
Steiner, Urs; Hurst, James; and Schier, J. Alan, 4,682,508, Cl. 73-866.500.

Schierjott, Rudolf, to Siemens Aktiengesellschaft. Current monitor for switching regulators. 4,668,905, 5-26-87, Cl. 323-287.000.

Schierjott, Rudolf: *See*—
Stasch, Harald; and Schierjott, Rudolf, 4,654,771, Cl. 363-19.000.
Stasch, Harald; and Schierjott, Rudolf, 4,680,687, Cl. 363-18.000.

Schierling, Roland; Geyer, Werner; Wissmann, Michael; and Nickel, Hans, to Andreas Stihl. Method of injecting fuel for two-stroke engine and apparatus therefor. 4,700,668, 10-20-87, Cl. 123-73.00C.

Schierz, Winfried, to SEMIKRON Gesellschaft fur Gleichrichterbau und Elektronik m.b.H. Semiconductor rectifier unit. 4,672,422, 6-9-87, Cl. 357-82.000.

Schieser, Warren J.; Vickers, Stanley E.; and Duffey, Craig L., to Liqui-Box Corporation. Uncapper for containers having friction caps carrying flexible tubes. 4,676,285, 6-30-87, Cl. 141-114.000.

Schiesser, Walter A. Extrusion means for producing rubber profiles. 4,712,989, 12-15-87, Cl. 425-114.000.

Schiessle, Edmund; and Forkel, Werner, to Daimler-Benz Aktiengesellschaft. Device for the indirect contactless electrical measuring of short paths. 4,638,659, 1-27-87, Cl. 73-119.00A.

Schiessler, Siegfried; and Spietschka, Ernst, to Hoechst Aktiengesellschaft. Process for preparing 1,3,6,8-tetrabromopyrene. 4,684,753, 8-4-87, Cl. 570-206.000.

Schiesz, Louis B.; and Kroczynski, Patrice A., to Schiesz, Louis B. Apparatus for applying carriers onto containers. 4,649,690, 3-17-87, Cl. 53-48.000.

Schievelbein, Vernon H.: *See*—
Hawkins, Jeffrey T.; and Schievelbein, Vernon H., 4,637,466, Cl. 166-272.000.

Schiff, Leonard N., to RCA Corporation. Speakerphone with adaptive cancellation of room echoes. 4,636,586, 1-13-87, Cl. 379-390.000.

Schiff, Leonard N., to RCA Corporation. Clock rate spread spectrum. 4,639,932, 1-27-87, Cl. 375-1.000.

Schiff, Otto M.; and Rikis, Vitolds. Compact multiple image camera with color filter wheel. 4,673,269, 6-16-87, Cl. 354-76.000.

Schiff, Peter, to IABP Corporation. Percutaneous intra-aortic balloon and method for using same. 4,644,936, 2-24-87, Cl. 128-1.00D.

Schiff, Peter, to IABP Corporation. Percutaneous intra-aortic balloon and method for using same. 4,697,573, 10-6-87, Cl. 128-1.00D.

Schiffelers, Hendrik E. P.: *See*—
Bouwens, Jan M. M.; and Schiffelers, Hendrik E. P., 4,637,598, Cl. 271-3.100.

Schiffer, Ernst-Uwe: *See*—
Mesmer, Otto; Polligkeit, Wolfgang; Schiffer, Ernst-Uwe; Troger, Wolfgang; and Wolter, Andreas, 4,655,952, Cl. 252-88.000.

Schiffer, Henry. An intermediate floor. 4,699,834, 10-13-87, Cl. 428-49.000.

Schiffers, Theo, to H. Krantz, GmbH & Co. Method for heat-treating textile material and tenter for carrying out method. 4,656,756, 4-14-87, Cl. 34-25.000.

Schiffers, Theo: *See*—
Grafen, Karl; and Schiffers, Theo, 4,694,326, Cl. 15-306.00A.

Schiffers, Ulrich; and Muller, Rainer, to Kraftwerk Union Aktiengesellschaft. Power generating station with an integrated coal gasification plant. 4,663,931, 5-12-87, Cl. 60-39.070.

Schiffers, Ulrich; and Muller, Rainer. Power generating station with an integrated coal gasification plant. 4,665,688, 5-19-87, Cl. 60-39.070.

Schiffers, Ulrich, to Kraftwerk Union Aktiengesellschaft. Combined gas and steam-turbine power generating station. 4,697,415, 10-6-87, Cl. 60-39.120.

Schiffers, Ulrich: *See*—
Frewer, Hans; Muller, Rainer; and Schiffers, Ulrich, 4,669,270, Cl. 60-648.000.
Goebel, Konrad; Muller, Rainer; and Schiffers, Ulrich, 4,676,063, Cl. 60-39.070.
Goebel, Konrad; and Schiffers, Ulrich, 4,682,620, Cl. 137-110.000.

Schiffert, Phillip W., to Magnaflux Corporation. Method for non-destructive testing of a magnetizable workpiece under cold weather conditions using a magnetic particle bath. 4,703,263, 10-27-87, Cl. 324-216.000.

Schiffleger, Alan J.: *See*—
Chen, Steve S.; Schiffleger, Alan J.; Somdahl, Eugene R.; and Higbie, Lee, 4,636,942, Cl. 364-200.000.
Chen, Steve S.; and Schiffleger, Alan J., 4,661,900, Cl. 364-200.000.

Schiffman, Howard G.: *See*—
Postema, Gerrit B.; and Schiffman, Howard G., 4,646,093, Cl. 342-151.000.

Schijf, Hendrikus J., to Contractual Services (Jersey) Ltd. Sandwich panel and end strips therefor and assembly of such sandwich panels. 4,644,724, 2-24-87, Cl. 52-588.000.

Schijf, Hendrikus J., to Contractual Services (Jersey) Ltd. Double-walled panel. 4,644,725, 2-24-87, Cl. 52-463.000.

Schikor, Joachim: *See*—
Grossmann, Kurt; Bliesner, Jurgen; and Schikor, Joachim, 4,638,404, Cl. 361-288.000.

Schild, Geoffrey C.: *See*—
Almond, Jeffrey W.; Minor, Phillip D.; Evans, David M. A.; and Schild, Geoffrey C., 4,694,071, Cl. 530-329.000.

Schild, Jacques: *See*—
Schapira, Joseph; Vincent, Jacques; Chaillou, Daniel; and Schild, Jacques, 4,666,613, Cl. 252-8.511.

Schild, Ronald H.: *See*—
Koeplin-Gall, Sandra; and Schild, Ronald H., 4,643,835, Cl. 210-754.000.

Schildbach, Klaus B.: *See*—
Van der Velde, Hendrik S.; Schildbach, Klaus B.; and Van der Maaden, Johan, 4,666,244, Cl. 350-96.230.

Schildbach, Peter: *See*—
Cardullo, Mario; Caraluzzi, Mark; and Schildbach, Peter, 4,649,056, Cl. 426-509.000.

Schilde, Heinz J.: *See*—
Crumbach, Richard; Gillner, Manfred; Schilde, Heinz J.; and Tiedemann, Helmut, 4,707,208, Cl. 156-285.000.

Schilde, Heinz-Josef: *See*—
Kraemer, Johannes; Leclere, Klemens; Nuding, Werner; and Schilde, Heinz-Josef, 4,701,240, Cl. 156-555.000.

Schilder, Hans; and Kuhn, Norbert, to J.M. Voith GmbH. Lubricating and cooling rotary bearings of axial blowers. 4,668,168, 5-26-87, Cl. 416-157.00R.

Schildge, Adam T., Jr. Method of erecting a cable stay roof over an existing structure. 4,651,496, 3-24-87, Cl. 52-747.000.

Schildknecht, Kurt, to Hoffmann-La Roche Inc. Method and apparatus for measuring blood coagulation time. 4,659,550, 4-21-87, Cl. 422-73.000.

Schildknecht, Kurt: *See*—
Borer, Claude; and Schildknecht, Kurt, 4,648,713, Cl. 356-246.000.

Schildmann, Jens A.: *See*—
Wiesenberger, Alfred; Schildmann, Jens A.; Kolb, Erich; and Dechent, Hans-Mario, 4,702,922, Cl. 426-51.000.

Schildmeier, J. Henry: *See*—
Tavel, Goldie K.; and Schildmeier, J. Henry, 4,660,758, Cl. 232-43.200.

Schilk, Leonhard, to Dr. Karl Thomae GmbH. Eye rod, process and apparatus for loading the same with solutions or suspensions of active substance. 4,659,584, 4-21-87, Cl. 427-2.000.

Schill, Herbert: *See*—
Brantl, Victor; Bomann, Werner; and Schill, Herbert, 4,707,475, Cl. 514-215.000.

Schillaci, Samuel P., to Figgie International Inc. Chlorine gas filtering material suitable for use in a chemical oxygen generator. 4,687,640, 8-18-87, Cl. 422-120.000.

Schiller, Claude, to U.S. Philips Corporation. Laue camera. 4,709,384, 11-24-87, Cl. 378-76.000.

Schiller, Darrell. Automobile door hinge construction. 4,633,545, 1-6-87, Cl. 16-275.000.

Schiller, David S.: *See*—
Newcombe, William R., Jr.; Prysby, Daniel G.; Sanderson, Michael E.; and Schiller, David S., 4,670,886, Cl. 375-3.000.

Schiller, Harold, to Ardrox Inc. Composition and method for stripping films from printed circuit boards. 4,713,144, 12-15-87, Cl. 156-656.000.

Schiller, Helmut, to Linde Aktiengesellschaft. Process and apparatus for cooling a gaseous stream before and/or during its compression. 4,711,771, 12-8-87, Cl. 423-359.000.

Schiller Industries Inc.: *See*—
Keehne, Julian L., 4,671,598, Cl. 439-610.000.

Schiller, Michael, to Fingermatrix, Inc. Conversion of an image represented by a field of pixels in a gray scale to a field of pixels in binary scale. 4,685,145, 8-4-87, Cl. 382-52.000.

Schiller, Michael, to Fingermatrix, Inc. Matcher. 4,696,046, 9-22-87, Cl. 382-5.000.

Schiller, Siegfried; Panzer, Siegfried; and Gabet, Klaus, to Bakish Materials Corporation. Process and apparatus for disinfecting seeds. 4,633,611, 1-6-87, Cl. 47-1.300.

Schiller, Siegfried; Jaesch, Guenter; and von Ardenne, Alexander, to Bakish Materials Corporation. High power electron gun. 4,665,297, 5-12-87, Cl. 219-121.0ET.

Schiller, Werner: *See*—
Burghoff, Karl; Schiller, Werner; Albrecht, Wilhelm; Harsch, Herbert; and Burghoff, Heinz-Georg, 4,680,952, Cl. 72-161.000.

Schillig, Kim. Motorized hair styling brush with removable dryer. 4,664,132, 5-12-87, Cl. 132-11.00A.

Schilliger, Michel: *See*—
Hamzaoui, Salim; and Schilliger, Michel, 4,648,101, Cl. 375-99.000.

Schilling, Albert; Schuttler, Edwin; Schmekel, Karl-Wilhelm; and Rohde, Axel, to Carl-Zeiss-Stiftung. Cross-slide stage for a microscope. 4,702,565, 10-27-87, Cl. 350-531.000.

Schilling, Albert: *See—*
Piller, Horst; and Schilling, Albert, 4,687,304, Cl. 350-526.000.

Schilling, Andres: *See—*
Kurz, Karl H.; and Schilling, Andres, 4,685,474, Cl. 128-778.000.

Schilling, Christopher: *See—*
Lee, Mark C.; Schilling, Christopher; Ladner, George O., Jr.; and Wang, Taylor G., 4,670,035, Cl. 65-21.400.

Schilling, Curtis L., Jr.: *See—*
King, Roswell E., III; Kanner, Bernard; Hopper, Steven P.; and Schilling, Curtis L., Jr., 4,675,424, Cl. 556-412.000.

Schilling, Edward F.: *See—*
Roos, Hartog J.; and Schilling, Edward F., 4,697,075, Cl. 250-213.0VT.

Schilling, Hartmut; Peller, Helmuth; and Becker, Hansjoerg, to Rheinmetall GmbH. Full caliber training projectile. 4,708,065, 11-24-87, Cl. 102-529.000.

Schilling, Helmut W.: *See—*
Andrich, Wolfgang; and Schilling, Helmut W., 4,716,300, Cl. 250-578.000.

Schilling, Hugh K.; Dayen, Leonid; and Raines, Charles D., to Horton Manufacturing Co., Inc. Rotational control apparatus. 4,648,493, 3-10-87, Cl. 192-18.00A.

Schilling, James W., Jr.; White, Robert T.; and Cordell, Barbara, to California Biotechnology, Inc. Recombinant alveolar surfactant protein. 4,659,805, 4-21-87, Cl. 530-350.000.

Schilling, Lothar: *See—*
Busch, Edgar; Schilling, Lothar; and Ziegler, Klaus, 4,715,303, Cl. 112-256.000.
Schmidt, Gottfried; Busch, Edgar; and Schilling, Lothar, 4,644,881, Cl. 112-103.000.

Schilling Mess und Regeltechnik Industrievertretungen: *See—*
Wondrak, Thomas, 4,689,620, Cl. 340-856.000.

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Schilling, Peter; and Schreuders, Hans G., to Westvaco Corporation. Rapid and medium setting high float bituminous emulsions. 4,676,927, 6-30-87, Cl. 252-311.500.

Schilling, Roland, to Telefunken Electronic GmbH. Solar generator. 4,697,042, 9-29-87, Cl. 136-244.000.

Schilling, Thaddeus A. Portable gas-fired forced-draft heater. 4,640,680, 2-3-87, Cl. 431-350.000.

Schilling, Walter W.: *See—*
Churchland, Mark T.; and Schilling, Walter W., 4,706,799, Cl. 198-457.000.

Schilling, Wolfgang: *See—*
Kuhl, Wilfried; Klug, Leonhard; Rost, Bernd; and Schilling, Wolfgang, 4,672,323, Cl. 324-460.000.

Schillinger, Daniel: *See—*
Kaufmann, Felix; and Schillinger, Daniel, 4,710,863, Cl. 364-146.000.

Schillinger, Ekkehard: *See—*
Skuballa, Werner; Raduchel, Bernd; Schwarz, Norbert; Vorbruggen, Helmut; Casals-Stenzel, Jorge; Schillinger, Ekkehard; and Town, Michael H., 4,708,963, Cl. 514-530.000.

Schillinger, Hans; Pahlke, Klaus; Starke, Siegfried; Panhorst, Heinz-Juergen; and Mengel, Hans-Eckhard, to Norton Christensen, Inc. Drill bit. 4,635,738, 1-13-87, Cl. 175-398.000.

Schillinger, Norbert: *See—*
Eyer, Achim; Raeuber, Armin; and Schillinger, Norbert, 4,690,797, Cl. 419-23.000.

Schillinger, Rainer, to Robert Bosch GmbH. Arrangement for feeding fuel from supply tank to internal combustion engine of power vehicle. 4,653,979, 3-31-87, Cl. 415-53.00T.

Schilperoort, Robbert: *See—*
Schilperoort, Robbert A.; Krens, Frans A.; and Wullems, George J., 4,684,611, Cl. 435-172.300.

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Schilperoort, Robbert A.; and Hille, Jacques. Process for the incorporation of foreign DNA into the genome of dicotyledonous plants using stable cointegrate plasmids. 4,693,976, 9-15-87, Cl. 435-172.300.

Schimanek, Hans-Joachim: *See—*
Bauer, Anton E.; Billmann, Gerhard; Rathke, Jorg; Schimanek, Hans-Joachim; Schrott, Georg W.; and Wodok, Hans, 4,696,537, Cl. 350-96.200.

Schimel, Keith A. Systems for the treatment of organic material and particularly sewage sludge. 4,642,187, 2-10-87, Cl. 210-258.000.

Schiminski, Herbert: *See—*
Schippers, Heinz; Schiminski, Herbert; Turk, Herbert; Mayer, Klaus; and Busch, Hans-Jochen, 4,646,983, Cl. 242-43.00A.

Schimko, Reinhold, to Universal Maschinenfabrik Dr. Rudolf Schieber GmbH & Co. KG. Needle selection device for a flat knitting machine. 4,660,391, 4-28-87, Cl. 66-75.100.

Schimko, Reinhold, to Universal Maschinenfabrik Dr. Rudolf Schieber GmbH & Co. KG. Flat knitting machine. 4,662,192, 5-5-87, Cl. 66-75.100.

Schimko, Reinhold, to Universal Maschinenfabrik Dr. Rudolf Schieber GmbH & Co. KG. Flat knitting machine. 4,712,391, 12-15-87, Cl. 66-115.000.

Schimmel, Gunther; and Gradl, Reinhard, to Hoechst Aktiengesellschaft. Process for making alkali metal phosphate solutions containing little fluorine. 4,640,824, 2-3-87, Cl. 423-185.000.

Schimmel, Gunther; Gradl, Reinhard; and Heymer, Gero, to Hoechst Aktiengesellschaft. Process for dearsenifying phosphoric acid solutions. 4,668,492, 5-26-87, Cl. 423-321.00R.

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Kolkmann, Friedrich; Ressel, Herbert; Gradl, Reinhard; and Schimmel, Gunther, 4,683,127, Cl. 423-321.00R.

Schimmel, Karl F.; Ward, Thomas A.; and Seiner, Jerome A., to PPG Industries, Inc. Half-amide reaction products of diovsafates and amine group containing materials. 4,684,710, 8-4-87, Cl. 528-26.000.

Schimmel, Paul R.: *See—*
Jasin, Maria; and Schimmel, Paul R., 4,713,337, Cl. 435-172.300.

Schimming, Wolfgang: *See—*
Feitler, David; Schimming, Wolfgang; and Wetstein, Henry, 4,675,410, Cl. 546-251.000.

Schimpf, Daniel B., to R. R. Donnelley & Sons Company. Operator selectable multiple gradation scanner and engraver apparatus and method. 4,672,466, 6-9-87, Cl. 358-299.000.

Schinabeck, John; and Murdock, James R., to Fairchild Semiconductor Corporation. Method and apparatus for monitoring response signals during automated testing of electronic circuits. 4,635,259, 1-6-87, Cl. 371-20.000.

Schinabeck, John, to Fairchild Semiconductor Corporation. Method and apparatus for monitoring automated testing of electronic circuits. 4,637,020, 1-13-87, Cl. 371-20.000.

Schinabeck, John; and Murdock, James R., to Fairchild Semiconductor Corporation. Method and apparatus for applying and monitoring programmed test signals during automated testing of electronic circuits. 4,646,299, 2-24-87, Cl. 371-20.000.

Schinazi, Raymond F.: *See—*
Chu, Chung K.; and Schinazi, Raymond F., 4,681,933, Cl. 536-23.000.

Schindehutte, Manfred, to Gebr. Bode & Co. GmbH. Drive assembly for the wing of a swing-out sliding door. 4,644,692, 2-24-87, Cl. 49-213.000.

Schindehutte, Manfred, to Wegmann & Co. GmbH. Railroad-vehicle truck frame with transoms having flanges and central web. 4,674,411, 6-23-87, Cl. 105-197.050.

Schindeler, John W., Jr.: *See—*
McGill, James C.; Schindeler, John W., Jr.; McGill, Eugene C.; and Rawlings, Robert T., 4,634,369, Cl. 431-3.000.

Schindl, Klaus P.; Meitz, Franz; and Salzmann, Kurt, to Reichert-Jung Optische Werke AG. Stage for a microscope. 4,711,537, 12-8-87, Cl. 350-531.000.

Schindl, Klaus P., to C. Reichert Optische Werke AG. Photometer for use with a microscope. 4,712,889, 12-15-87, Cl. 350-511.000.

Schindl, Klaus P.: *See—*
Nyman, Georg N.; Pauliny, Ferdinand; and Schindl, Klaus P., 4,678,291, Cl. 350-510.000.

Schindler, Abbott M.; and Fuchs, Otto, to Unisys Corp. Float lapping fixture. 4,707,948, 11-24-87, Cl. 51-216.00R.

Schindler, Anton, to Research Triangle Institute. Porous bioabsorbable polyesters. 4,702,917, 10-27-87, Cl. 424-422.000.

Schindler, Edgar C. Wrap-around packaging. 4,691,824, 9-8-87, Cl. 206-315.900.

Schindler, Edward F., Jr. Tools for repairing a diesel engine cylinder head. 4,638,541, 1-27-87, Cl. 29-402.060.

Schindler, Ernst: *See—*
Scheuer, Felix; and Schindler, Ernst, 4,673,049, Cl. 177-209.00.

Schindler, Frederick J., to Rohm and Haas Company. Binder for high solids ambient cure coatings. 4,698,385, 10-6-87, Cl. 524-733.000.

Schindler Haughton Elevator Corporation: *See—*
Lauer, Robert J., 4,657,117, Cl. 187-114.000.

Schindler, Josef: *See—*
Marth, Kurt; Muller, Gerhard; Putz, Jurgen; and Schindler, Josef, 4,704,592, Cl. 336-83.000.
Moll, Helmut; Wiegel, Gerd; Schindler, Josef; Scherer, Wilfried; and Marth, Kurt, 4,712,723, Cl. 228-111.000.

Schindler, Manfred; and Vilsmeier, Walter, to FICHT GmbH. Wire suspension using an arc spring. 4,693,492, 9-15-87, Cl. 280-705.00.

Schindler, Manfred; and Ficht, Reinhold, to Ficht GmbH. Four-stroke internal combustion piston engine. 4,715,336, 12-29-87, Cl. 56.0BC.

Schindler, Norbert; Nuesslein, Hans; Koeppelmann, Edgar; and Pokow, Joerg, to Henkel Kommanditgesellschaft auf Aktien. Composition and process for the aftertreatment of washed laundry. 4,704, 11-3-87, Cl. 252-8.800.

Schindler, Wayne R., to Chamberlain Manufacturing Corporation. Microprocessor controlled garage door operator. 4,638,433, 1-2 Cl. 364-400.000.

Schine, Jonathan M., to High Resolution Television, Inc. Phase amplitude control of vertical modulation in horizontal scan of high resolution television. 4,639,766, 1-27-87, Cl. 358-21.00R.

Schine, Jonathan M. NTSC color television transmission with chroma crawl. 4,660,074, 4-21-87, Cl. 358-16.000.

Schine, Jonathan M. Enhanced data display system. 4,684,937, Cl. 340-728.000.

Schine, Jonathan M., to High Resolution Television, Inc. High resolution dot-matrix character display. 4,697,177, 9-29-87, Cl. 340-72

Schine, Jonathan M.; to High Resolution Sciences, Inc. Select switch box for white on black and black on white CRT data display. 4,703,319, 10-27-87, Cl. 340-723.000.

Schingnitz, Gunter: *See*—
Hornykiewicz, Oleh; Hinzen, Dieter; and Schingnitz, Gunter, 4,645,770, Cl. 514-212.000.

Schingnitz, Manfred: *See*—
Fleischer, Klaus; Gohler, Peter; Mangler, Rolf; Reuther, Christian; Schingnitz, Manfred; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Rodionov, Boris, 4,704,971, Cl. 110-264.000.
Gohler, Peter; Mangler, Rolf; Schingnitz, Manfred; Seidel, Wolfgang; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Gamburg, David, 4,710,202, Cl. 48-73.000.
Gudymov, Ernest; Fedotov, Vasilij; Semenov, Vladimir; Rodinov, Boris; Berger, Friedrich; Wenzel, Winfried; Peise, Helmut; and Schingnitz, Manfred, 4,707,163, Cl. 48-73.000.

Schink, Helmut: *See*—
Rehme, Hans; and Schink, Helmut, 4,646,253, Cl. 364-527.000.

Schink, Karl, to Muhr und Bender. Machine tool, especially a punch. 4,646,604, 3-3-87, Cl. 83-698.000.

Schinke, Hans-Joachim: *See*—
Breu, Karl-Jan; and Schinke, Hans-Joachim, 4,638,126, Cl. 379-427.000.

Schinkel, Ingo; and Bohner, Jurgen, to Wolff Walsrode Aktiengesellschaft. Opaque, heat sealable multilayer polyolefin films, 4,666,772, 5-19-87, Cl. 428-330.000.

Schinkel, Ingo; and Bohner, Jurgen, to Wolff Walsrode Aktiengesellschaft. Heat sealable multilayer films with low permeability to gas and their use as packaging material. 4,668,575, 5-26-87, Cl. 428-349.000.

Schinkel, Ingo; and Bohner, Jurgen, to Wolff Walsrode Aktiengesellschaft. Sealable multilayer polyolefin films. 4,692,386, 9-8-87, Cl. 428-515.000.

Schinko, Hermann: *See*—
Muller, Anton; Herdeg, Karl; Schinko, Hermann; Leyermann, Gunter; Kimmit, Richard; and Meyer, Frank, 4,671,418, Cl. 211-59.400.

Schinner, Edward N.: *See*—
Flamm, Katherine K.; Gilley, J. Kyle; Geary, David F.; and Schinner, Edward N., 4,691,769, Cl. 165-158.000.

Schinski, Erhard, to Henkel Kommanditgesellschaft auf Aktien. Additive for cementitious compositions. 4,654,085, 3-31-87, Cl. 106-93.000.

Schintgen, Robert J., to Vilter Manufacturing Corporation. Mounting means for valve disc. 4,634,093, 1-6-87, Cl. 251-82.000.

Schinzel, Erich, to Hoechst Aktiengesellschaft. Process for the preparation of dialkoxytriazinylpyrenes. 4,675,402, 6-23-87, Cl. 544-219.000.

Schipfer, Rudolf: *See*—
Daimer, Wolfgang; Schipfer, Rudolf; and Monschein, Gunther, 4,659,800, Cl. 528-103.000.

Schipper, Georgius H.: *See*—
Winthaegen, Leon M. W.; and Schipper, Georgius H., 4,657,373, Cl. 355-3.00R.

Schipper, Hendricus H., to B.V. Machinefabriek v/h Pannevis & Zn. Belt filter device with pivotal suction casing. 4,671,876, 6-9-87, Cl. 210-400.000.

Schipper, Lambert A.: *See*—
Kreuwel, Johannes G.; and Schipper, Lambert A., 4,701,191, Cl. 55-198.000.

Schipper, Paul H.: *See*—
Krambeck, Frederick J.; Lam, Chiu T.; and Schipper, Paul H., 4,645,589, Cl. 208-251.00R.

Schippers, Heinz; and Lenk, Erich, to Barmag Barmer Maschinenfabrik AG. Yarn handling apparatus for winding machine. 4,638,955, 1-27-87, Cl. 242-18.0PW.

Schippers, Heinz; Schiminski, Herbert; Turk, Herbert; Mayer, Klaus; and Busch, Hans-Jochen, to Barmag Barmer Maschinenfabrik AG. Yarn traversing apparatus. 4,646,983, 3-3-87, Cl. 242-43.00A.

Schippers, Heinz; and Hertell, Siegfried, to Barmag Barmer Maschinenfabrik AG. Control apparatus for a positive displacement reciprocating pump. 4,648,810, 3-10-87, Cl. 417-383.000.

Schippers, Heinz; and Lenz, Friedhelm, to Barmag Barmer Maschinenfabrik AG. Method and apparatus for winding textile yarns. 4,659,027, 4-21-87, Cl. 242-18.100.

Schippers, Heinz; Gerhartz, Seigmar; and Kalthoff, Rolf, to Barmag AG. Stepped precision winding process. 4,697,753, 10-6-87, Cl. 242-18.100.

Schippers, Heinz; and Dammann, Peter, to Barmag AG. Apparatus for twisting multifilament yarn. 4,698,959, 10-13-87, Cl. 57-336.000.

Schips, Helmut. Sewing machine for sewing a rubber strip to a textile fabric. 4,635,575, 1-13-87, Cl. 112-121.260.

Schips, Helmut: *See*—
Muller, Ernst, 4,703,432, Cl. 364-470.000.

Schiraldi, Michael T.; Perl, Martin M.; and Rubin, Howard, to Johnson & Johnson Products, Inc. Bioadhesive extruded film for intra-oral drug delivery and process. 4,713,243, 12-15-87, Cl. 424-151.000.

Schirbach, Arno: *See*—
Naoumidis, Aristides; Neumeister, Herbert; Schirbach, Arno; Struck, Bernd D.; and Triefenbach, Dieter, 4,702,784, Cl. 156-89.000.

Schirlin, Marcel: *See*—
Camborde, Jean-Marc; Schirlin, Marcel; and Perrot, Jean-Claude, 4,654,862, Cl. 375-10.000.

Schirmag, Klaus-Peter: *See*—
Sebastian, Wilhelm; Nickel, Wilhelm; and Schirmag, Klaus-Peter, 4,638,655, Cl. 72-208.000.

Schirmann, Peter J.; Blank, Werner J.; and Parekh, Girish G., to American Cyanamid Company. Ethers of acrylamidoglycolic acid and esters. 4,656,308, 4-7-87, Cl. 560-170.000.

Schirmann, Peter J.: *See*—
Gatechair, Leslie R.; Blumenstein, Gary M.; and Schirmann, Peter J., 4,707,432, Cl. 430-281.000.

Schirmer, Alfred F. Seal ring for piston rods with partings. 4,706,971, 11-17-87, Cl. 277-215.000.

Schirmer, Guenter; and Woelffing-Seelig, Gerhard, to Robert Bosch GmbH. Device for supervising condition of electric consumers in a motor vehicle. 4,701,596, 10-20-87, Cl. 219-483.000.

Schirmer, Gunter: *See*—
Fauser, Edwin List, Hans; and Schirmer, Gunter, 4,665,399, Cl. 340-870.320.

Schirmer, Henry G., to W.R. Grace & Co., Cryovac Div. Method for making a puncture resistant bag. 4,704,101, 11-3-87, Cl. 493-195.000.

Schirmer, Henry G.: *See*—
Ferguson, Daniel J.; Schirmer, Henry G.; and Mueller, Walter B., 4,640,856, Cl. 428-36.000.
Mueller, Walter B.; and Schirmer, Henry G., 4,684,573, Cl. 428-349.000.

Schirmer, Kurt E.; and Munnerlyn, Charles, to Schirmer, Kurt E. Ophthalmoscope with laser photocoagulator. 4,669,837, 6-2-87, Cl. 351-221.000.

Schirmer, Ulrich; Plath, Peter; Sauter, Hubert; and Wuerzer, Bruno, to BASF Aktiengesellschaft. Aminothiadiazoles and their use for controlling undesirable plant growth. 4,642,132, 2-10-87, Cl. 71-90.000.

Schirmer, Ulrich; Karbach, Stefan; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Steglich, Wolfgang; Schwalge, Barbara A. M.; and Anke, Timm, to BASF Aktiengesellschaft. Acrylates, and fungicides which contain these compounds. 4,709,078, 11-24-87, Cl. 560-060.000.

Schirmer, Ulrich: *See*—
Becker, Rainer; Jahn, Dieter; Schirmer, Ulrich; Keil, Michael; Wuerzer, Bruno; and Meyer, Norbert, 4,650,513, Cl. 71-88.000.
Keil, Michael; Schirmer, Ulrich; Jahn, Dieter; Becker, Rainer; Wuerzer, Bruno; and Meyer, Norbert, 4,692,553, Cl. 564-185.000.

Schirneker, Hans-Ludwig. Projectile, for example for hunting purposes, and process for its manufacture. 4,655,140, 4-7-87, Cl. 102-508.000.

Schirneker, Hans-Ludwig. Lead-free bullet for hunting. 4,685,397, 8-11-87, Cl. 102-510.000.

Schiro, Jeffrey C. Plant hanger. 4,666,115, 5-19-87, Cl. 248-225.100.

Schisler, Robert C.: *See*—
Eisenzimmer, George W.; and Schisler, Robert C., 4,688,605, Cl. 138-130.000.
Pilkington, Mervin V.; Cole, Robert W.; and Schisler, Robert C., 4,633,912, Cl. 138-132.000.

Schissel, Paul O.: *See*—
Neidlinger, Hermann H.; Schissel, Paul O.; and Orth, Richard A., 4,659,590, Cl. 427-244.000.

Schissler, Brian D., to O.S. Kelly Company, The. Method of multiple station drilling. 4,655,652, 4-7-87, Cl. 409-132.000.

Schitinin, Valery E.: *See*—
Akopov, Ernest M.; Schitinin, Valery E.; and Arapova, Anna V., 4,684,051, Cl. 227-19.000.

Schittenhelm, Hans-Joachim; and Joseph, Werner, to Bayer Aktiengesellschaft. Process for electrostatically spraying inorganic powders. 4,659,586, 4-21-87, Cl. 427-27.000.

Schittenhelm, Hans-Joachim; Joseph, Werner; and Krist, Otto, to Bayer Aktiengesellschaft. Coating for metallic substrates. 4,689,271, 8-25-87, Cl. 428-446.000.

Schittenhelm, Hans-Joachim; Joseph, Werner; and Trogel, Gerhard, to Bayer Aktiengesellschaft. Heating element combined glass/enamel overcoat. 4,713,530, 12-15-87, Cl. 219-543.000.

Schitthof, Hiltrud, to Jos. Schneider Optische Werke Kreuznach GmbH & Co. KG. Projection objective assembly. 4,695,136, 9-22-87, Cl. 350-472.000.

Schjelderup, John R.: *See*—
Dyer, Frederick N.; and Schjelderup, John R., 4,653,760, Cl. 273-310.000.

Schlachter, Siegfried, to Kaltenbach & Voigt GmbH & Co. Dental handpiece. 4,648,838, 3-10-87, Cl. 433-29.000.

Schlademan, James A., to Atlantic Richfield Company. Acrylic hot melt pressure sensitive adhesive compounds. 4,656,213, 4-7-87, Cl. 524-272.000.

Schlaegel, Norman, to Innovative Hearing Corporation. Process for manufacturing an ear fitted acoustical hearing aid. 4,652,414, 3-24-87, Cl. 264-154.000.

Schlaepfer, Claude: *See*—
Abbott, John G.; Burckhardt, Christoph B.; Grandchamp, Pierre-Andre; Krummenacher, Peter; and Schlaepfer, Claude, 4,649,926, Cl. 128-660.000.
Abbott, John G.; Burckhardt, Christoph B.; Grandchamp, Pierre-Andre; Krummenacher, Peter; and Schlaepfer, Claude, 4,674,514, Cl. 128-660.000.

Schlafer, Ludwig: *See*—
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Mischke, Peter; and Schlafer, Ludwig, 4,703,112, Cl. 534-642.000.

Schlag, Johannes: *See*—
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Steinberger, Rolf; Schlag, Johannes; Schlichting, Karl; Seiler, Erhard; Von Tomkewitsch, Sibylle; and Schmidt, Hans-Friedrich, 4,655,964, Cl. 252-511.000.

Schlage Lock Company: *See*—
Bettger, Richard R., 4,648,643, Cl. 292-347.000.
Smallegan, Jon M., 4,639,026, Cl. 292-352.000.

Smallegan, Jon M., 4,682,802, Cl. 292-337.000.

Schlagenhaufer, Albert: Ski damping device. 4,674,763, 6-23-87, Cl. 280-602.000.

Schlageter, George A.: *See—*
Krueger, William R.; McAuliffe, Gerald N.; and Schlageter, George A., 4,675,585, Cl. 318-358.000.

Schlagmuller, Walter: *See—*
Babitzka, Rudolf; Hertfelder, Wilhelm; Linder, Ernst; and Schlagmuller, Walter, 4,646,705, Cl. 123-571.000.
Linder, Ernst; and Schlagmuller, Walter, 4,667,639, Cl. 123-450.000.

Schlaich, Jorg; and Bergermann, Rudolf: Method and apparatus for anchoring cables of high-tensile steel wire. 4,673,309, 6-16-87, Cl. 403-265.000.

Schlak, Ottfried: *See—*
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Schlake, Randall L.: *See—*
Macemon, Herbert J.; Schlake, Randall L.; Fisher, John L.; Platt, Clair E.; and Mohney, Hubert L. R., 4,683,919, Cl. 140-92.200.
Macemon, Herbert J.; and Schlake, Randall L., 4,699,184, Cl. 140-92.200.

Schlameuss, Ronald G.: *See—*
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Schlanger, Raphael, to Cannondale Corporation. Bicycle brake cable stop and rear carrier rack attachment bracket. 4,688,749, 8-25-87, Cl. 248-200.000.

Schlanzke, Claus G.: *See—*
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Schlapman, William J.; Wirsbinski, James L.; and Manteufel, Dale, to Ingersoll Equipment Co., Inc. Trailing mower and drawbar articulation. 4,662,646, 5-5-87, Cl. 280-462.000.

Schlapp, Albert: *See—*
Roos, Rudolf; Schlapp, Albert; and Federmann, Dieter, 4,707,022, Cl. 296-222.000.

Schlaps, Edgar H.: *See—*
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Haag, Ronald H.; and Schlaps, Edgar H., 4,684,819, Cl. 307-10.00R.
Horvath, Zoltan L.; Kavanagh, Gary A.; Manning, Steven F.; Pyszel, Ronald J.; Rogers, Lloyd W.; and Schlaps, Edgar H., 4,707,027, Cl. 297-284.000.

Schlatter, Gerald L.: *See—*
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Schlecht, Karl: Positive double-piston displacement pump conveying pasteous material. 4,653,990, 3-31-87, Cl. 417-517.000.

Schlecht, Klaus: *See—*
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Schlechtriemen, Gerhard-Ludwig; Hotzel, Gerhard; and Weppner, Werner, to Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V. Solid state cell. 4,710,848, 12-1-87, Cl. 361-280.000.

Schleck, Herman A. Adjustable modular building. 4,641,477, 2-10-87, Cl. 52-646.000.

Schleffendorf, John J. Body training device. 4,648,594, 3-10-87, Cl. 272-118.000.

Schlegel, Charles T.: *See—*
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Schlegel Corporation: *See—*
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Mattscheck, Douglas; and Rogers, David E., 4,676,025, Cl. 49-477.000.
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Yackiw, Charles, 4,656,785, Cl. 49-495.000.

Schlegel, Dallas E.: *See—*
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Schlegel, Gary R. Clip for suspended ceiling gridwork. 4,641,987, 2-10-87, Cl. 403-169.000.

Schlegel, Hans-Joachim, to Inprohold Establishment. One-piece implantation lens. 4,673,406, 6-16-87, Cl. 623-6.000.

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Schlegel, Jurgen, to Vesten AG. Method of storing perishables such as meat. 4,659,578, 4-21-87, Cl. 426-418.000.

Schlegel, Reinhold: *See—*
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Schleicher, Bernhard: *See—*
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Schleicher, John K., to Accuratio Systems, Inc. Power transmission device. 4,702,124, 10-27-87, Cl. 74-675.000.

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Schleimann-Jensen, Lars J.; and Anderson, Fred H. E., to U.S. Philips Corporation. Apparatus for producing biaxial tiltable support for a rotational body. 4,714,214, 12-22-87, Cl. 244-3.160.

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Clancy, Gerald F.; Mundie, Craig J.; Schleimer, Stephen I.; Wallach, Steven J.; Bratt, Richard G.; and Gavrin, Edward S., 4,660,142, Cl. 364-200.000.
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Schlein, Allen P. Surgical saw blade. 4,637,391, 1-20-87, Cl. 128-317.000.

Schleisner, Uriel. Structural connector. 4,677,805, 7-7-87, Cl. 52-648.000.

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Schlesinger, Eugene R., to Perkin-Elmer Corporation, The. Optical chopper with high rate of focus dither. 4,640,580, 2-3-87, Cl. 350-274.000.

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Schlesser, Marilyn; and Bernard, Marie. Combination package and applicator. 4,643,725, 2-17-87, Cl. 604-306.000.
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Schlett, Paul E.; Peterson, John R.; Caprio, James A.; and Kleeb, Thomas R., to Exxon Research and Engineering Co.; and Dresser Industries, Inc. Abrasion resistant refractory composition. 4,656,146, 4-7-87, Cl. 501-124.000.
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Schleupen, Richard; Mayer, Ulrich; Bauer, Bernhard; and Langner, Arnd M., to Robert Bosch GmbH. Resetting circuit for microprocessors. 4,696,002, 9-22-87, Cl. 371-12.000.
Schley, Friedrich; Wunsche, Dieter; and Haussmann, Gerhard, to MTU-Motoren- Und Turbinen-Union Friedrichshafen GmbH. Exhaust gas line for a supercharged, multi-cylinder piston internal combustion engine. 4,658,580, 4-21-87, Cl. 60-322.000.
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Schloz, Gerhard; and Weitmann, Heinz, to Weitmann & Konrad GmbH & Co. KG. Apparatus for metering dusting powder. 4,712,716, 12-15-87, Cl. 222-189.000.
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Schlunt, Richard S.; and Fetterly, Donald R., to General Dynamics, Pomona Division. Device and method for optically correlating a pair of images. 4,669,054, 5-26-87, Cl. 364-822.000.
Schlupp, Ronald L.: *See*—
Price, William L.; Schlupp, Ronald L.; and Thomas, Mammen, 4,639,288, Cl. 156-643.000.
Schlusener, Horst: *See*—
Merten, Gerhard; Rafael, Werner; and Schlusener, Horst, 4,679,429, Cl. 73-168.000.
Schluter, Hans. Multi-function beach towel. 4,656,670, 4-14-87, Cl. 2-92.000.
Schluter, Helmut: *See*—
Busen, Dietmar; Schluter, Helmut; Weghmann, Arnold; Blumler, Norbert; and Teel, Bohuslav, 4,708,756, Cl. 156-143.000.
Schluter, Karl-Heinz: *See*—
Heitmann, Bob; Schluter, Karl-Heinz; and Steinger, Wolfgang, 4,659,414, Cl. 156-361.000.
Schluter, Klemens; and Schnorbach, Hans-Jurgen, to Bayer Aktiengesellschaft. Benzoyl urea compounds as agents for repelling snails and slugs. 4,659,736, 4-21-87, Cl. 514-452.000.
Schluter, Peter: *See*—
Briggs, Stuart J.; Parker, David J.; and Schluter, Peter, 4,702,078, Cl. 60-585.000.
Schmadel, Donald C., Jr., and Goodman, Jack E., to Chevron Research Company. Process of tuning a grated optical fiber and the tuned optical fiber. 4,636,031, 1-13-87, Cl. 350-96.190.
Schmadel, Donald C., Jr.; and Culver, William H., to Chevron Research Company. Frequency shifted cavity for electromagnetic radiation. 4,697,888, 10-6-87, Cl. 350-358.000.
Schmaderer, Franz: *See*—
Dietrich, Manfred; Dustmann, Cord-Heinrich; Schmaderer, Franz; and Wahl, Georg F. H., 4,657,776, Cl. 427-38.000.
Dustmann, Cord-Henrich; Wahl, Georg; and Schmaderer, Franz, 4,699,800, Cl. 427-62.000.
Schmalbach-Lubeca AG: *See*—
Bolte, Georg; and Schwarz, Helmut, 4,676,366, Cl. 198-803.800.
Bolte, Georg, 4,693,801, Cl. 204-180.200.
Hoft, Peter; Peter, Wolfgang; Bergsteiner, Johann; Berschick, Gunter; Drobe, Wolfgang; Engelke, Fritz; Hacke, Heinz; Hebbinghaus, Walter; and Kuhnert, Siegfried, 4,690,297, Cl. 220-273.000.
Schmaler, Dieter H.: *See*—
Klanner, Wilfried; Schmaler, Dieter H.; Wetter, Hermann; Felsch, Bernhard; and Czernakowski, Waldemar, 4,687,255, Cl. 297-488.000.
Schmalfeld, Jorg: *See*—
Rammler, Roland; Weiss, Hans J.; Dreher, Ingo; Schmalfeld, Jorg; and Bietz, Karl-Heinz, 4,659,456, Cl. 208-407.000.
Schmall, Karl-Heinz, to Get Gesellschaft fur Elektroniktechnologie mbH. Electronic warning and monitoring apparatus and electrode arrangement therefor. 4,661,797, 4-28-87, Cl. 340-561.000.
Schmall, Karl-Heinz, to GET Gesellschaft fur Elektronik-Technologie mbH. Method and sensor arrangement for tool/workpiece spacing control in electric arc processing machines. 4,677,275, 6-30-87, Cl. 219-124.030.
Schmall, Karl-Heinz, to GET Gesellschaft fur Elektronik-Technologie mbH. Measuring arrangement having a capacitive measuring electrode and a working tool with integrated electrode. 4,682,004, 7-21-87, Cl. 219-121.0PC.
Schmalzbach, Edwin L.: *See*—
Hochberg, Howard M.; Schmalzbach, Edwin L.; and Ziedonis, Janis G., 4,658,825, Cl. 128-634.000.
Schmalzl, Dieter, to Siemens Aktiengesellschaft. Radio-frequency-tight shield with planar parts. 4,640,979, 2-3-87, Cl. 174-35.0GC.
Schmanski, Donald W., to Carsonite International Corporation. Traffic barricade. 4,674,432, 6-23-87, Cl. 116-63.00P.
Schmanski, Donald W. Mobility guide tile for visually handicapped. 4,715,743, 12-29-87, Cl. 404-9.000.
Schmatz, Duane J.: *See*—
Novak, Robert F.; Schmatz, Duane J.; and Hunt, Thomas K., 4,714,798, Cl. 136-239.000.
Schmaus, Siegfried H. A. Direct-acting pressure sensor. 4,690,000, 9-1-87, Cl. 73-741.000.
Schmeal, W. R.; Singhal, S. N.; and Lo, K. H., to Shell Oil Company. Fiber wound plastic beverage can. 4,640,853, 2-3-87, Cl. 428-35.000.
Schmeal, Walter R.; Nathoo, Nazim S.; and Neate, John A., to Shell Oil Company. Robotic stapling system for fiber placement for composite parts. 4,679,291, 7-14-87, Cl. 29-432.000.

Schmed, Arthur; and Frei, Hans-Peter; to Gesamat AG. Apparatus for the preparation of hot beverages, particularly a coffee machine. 4,681,028, 7-21-87, Cl. 99-289.00R.

Schmed, Arthur: *See*—
Frei, Hans-Peter; and Schmed, Arthur, 4,659,023, Cl. 241-30.000.

Schmeda, Rae A.: *See*—
Ashworth, Robert A.; Rodriguez, Larry A.; Padilla, Antonio A.; Spake, Ned B.; Berry, W. Wes; and Schmeda, Rae A., 4,652,433, Cl. 423-117.000.

Schmeichel, Charles M.: *See*—
Schmeichel, Steven C.; and Schmeichel, Charles M., 4,703,971, Cl. 296-26.000.

Schmeichel, Steven C.; and Schmeichel, Charles M. Truck box extension apparatus. 4,703,971, 11-3-87, Cl. 296-26.000.

Schmekel, Gerald; and Rudolph, Gert, to B.A.T. Cigarettenfabriken GmbH. Process of preparing nicotine N'-oxide and smoking products containing it. 4,641,667, 2-10-87, Cl. 131-352.000.

Schmekel, Karl-Wilhelm: *See*—
Schilling, Albert; Schuttler, Edwin; Schmekel, Karl-Wilhelm; and Rohde, Axel, 4,702,565, Cl. 350-531.000.

Schmelck, Paul-Henry: *See*—
Diaz, Joseph; Demarne, Henri; Roncucci, Romeo; and Schmelck, Paul-Henry, 4,704,450, Cl. 530-324.000.
Diaz, Joseph; Demarne, Henri; Roncucci, Romeo; and Schmelck, Paul-Henry, 4,707,541, Cl. 530-324.000.

Schmelzer Corporation: *See*—
DeLand, Daniel L.; and LaVene, Leon F., 4,691,943, Cl. 285-315.000.
Johnson, LeRoy B., 4,659,135, Cl. 296-453.000.
Johnson, LeRoy B., 4,674,790, Cl. 296-153.000.
Seleno, Frank M., 4,633,845, Cl. 123-568.000.

Schmer, Frank M., Jr.: *See*—
Clark, Ray; and Schmer, Frank M., Jr., 4,671,728, Cl. 414-401.000.

Schmerda, Richard F.: *See*—
Damiano, Michael A.; Schmerda, Richard F.; and Searing, Lawrence G., 4,638,226, Cl. 318-345.00R.
Damiano, Michael A.; and Schmerda, Richard F., 4,649,302, Cl. 307-584.000.
Damiano, Michael A.; and Schmerda, Richard F., 4,691,197, Cl. 340-638.000.

Schmetz GmbH: *See*—
Schmetz, Peter; and Gierse, Dieter, 4,634,103, Cl. 266-80.000.
Schmetz, Peter, 4,709,904, Cl. 266-250.000.
Schmetz, Peter; and Gierse, Dieter, 4,713,124, Cl. 148-128.000.

Schmetz, Peter; and Gierse, Dieter, to Schmetz GmbH. Oven equipment for cooling a charge after thermal treatment. 4,634,103, 1-6-87, Cl. 266-80.000.

Schmetz, Peter, to Schmetz GmbH. Vacuum furnace for heat-treating a charge. 4,709,904, 12-1-87, Cl. 266-250.000.

Schmetz, Peter; and Gierse, Dieter, to Schmetz GmbH. Method for cooling a charge after thermal treatment. 4,713,124, 12-15-87, Cl. 148-128.000.

Schmetz, Peter-Nikolaus; and Klocker, Peter, to Ferdinand Bernhard Schmetz, Firma. Needle package. 4,691,825, 9-8-87, Cl. 206-380.000.

Schmid, Adalbert; Kiener, Alfons; Kagi, Stephan; and Claude, Jean P., to Coltene AG. Process and separating substance for removing a cavity-polymerized inlay consisting of a dental filling composite. 4,685,969, 8-11-87, Cl. 106-35.000.

Schmid, Alfred, to Bucher-Guyer AG. Method and an apparatus for accelerating air or gas exchange. 4,679,601, 7-14-87, Cl. 141-4.000.

Schmid, Anton; Tauschek, Georg; Sedlmeier, Andreas; and Pollok, Peter, to Bayerisches Leichtmetallwerk Graf Blucher von Wahlstatt GmbH. Forging process. 4,700,446, 10-20-87, Cl. 29-159.200.

Schmid, Carl E., to Perkin-Elmer Corporation, The. Digital control for rapid refill of a liquid chromatograph pump. 4,643,649, 2-17-87, Cl. 417-45.000.

Schmid, Dieter, to Lescha Maschinenfabrik GmbH. Chopper for garden refuse or the like. 4,640,465, 2-3-87, Cl. 241-37.500.

Schmid, Dieter, to Daimler-Benz Aktiengesellschaft. Weld-on nut for grounding terminal. 4,650,274, 3-17-87, Cl. 339-263.00E.

Schmid, Eckart; and Wanninger, Ludwig, to Siemens Aktiengesellschaft. Circuit assembly for temperature-dependent cathode current tracking in traveling-wave tubes. 4,638,215, 1-20-87, Cl. 315-3.500.

Schmid, Eckhardt: *See*—
Andrei-Alexandru, Marcel; Kofink, Wolfgang; Schmid, Eckhardt; and Tietz, Volker, 4,698,560, Cl. 318-54.000.
Egner-Walter, Bruno; Schmid, Eckhardt; and Scholl, Wolfgang, 4,641,389, Cl. 15-250.210.
Egner-Walter, Bruno; Neubauer, Walter; Schmid, Eckhardt; and Scholl, Wolfgang, 4,648,148, Cl. 15-250.210.

Schmid, Eduard; and Hoppe, Manfred, to EMS-Inventa AG. Process for the preparation of highly viscous or heat distortion-resistant polyamide which is at least partially crosslinked with functional silane. 4,647,630, 3-3-87, Cl. 525-431.000.

Schmid, Franz, to H. Stoll GmbH & Co. Flat knitting machine with needle selection device. 4,686,839, 8-18-87, Cl. 66-75.200.

Schmid, Franz: *See*—
Ploppa, Jurgen; and Schmid, Franz, 4,715,198, Cl. 66-75.200.
Stoll, Thomas; Goller, Ernst; Kazmaier, Guenther; and Schmid, Franz, 4,658,603, Cl. 66-126.00R.
von Stetten, Otto; Seth, Pyare L.; Schmid, Franz; and Rauchle, Kurt, 4,711,906, Cl. 514-561.000.

Schmid, Frederick; Khattak, Chandra P.; and Smith, Maynard B., to Crystal Systems, Inc. Multi-wafer slicing with a fixed abrasive. 4,646,710, 3-3-87, Cl. 125-16.00R.

Schmid, Friedbert: *See*—
Feuchter, Wolfgang; Goetz, Dieter; and Schmid, Friedbert, 4,703,616, Cl. 57-105.000.
Stahlecker, Fritz; Feuchter, Wolfgang; Gotz, Dieter; Schmid, Friedbert; and Zott, Werner, 4,667,464, Cl. 57-406.000.

Schmid, Gerard: *See*—
Hubschwerlen, Christian N.; and Schmid, Gerard, 4,699,986, Cl. 549-451.000.

Schmid, Gunter; and Neuffer, Kurt, to Robert Bosch GmbH. Thin layered magnetic head. 4,669,016, 5-26-87, Cl. 360-122.000.

Schmid, Gunter: *See*—
Kordulla, Hans; Jansen, Dirk; and Schmid, Gunter, 4,700,065, Cl. 250-231.0SE.

Schmid, Hans-Dieter: *See*—
Gademann, Lothar; Hirt, Adam; Michel, Hartmut; Schmid, Hans-Dieter; and Schneider, Michael, 4,694,814, Cl. 123-644.000.

Schmid, Hans-Jorg: *See*—
Jecnicke, Edmund; Schenk, Manfred; and Schmid, Hans-Jorg, 4,651,292, Cl. 364-571.000.

Schmid, Hans-Rainer: *See*—
Meinecke, Albrecht; Schmid, Hans-Rainer; and Egelhof, Dieter, 4,684,444, Cl. 162-380.000.

Schmid, Hartmut, to DSL Dynamic Sciences Limited. Railway emergency brake system. 4,641,892, 2-10-87, Cl. 303-47.000.

Schmid, Heinrich: *See*—
Wallis, Kurt; Dangelmaier, Roland; Betz, Ansgar; and Schmid, Heinrich, 4,646,554, Cl. 72-406.000.

Schmid, Herbert; and Hiestand, Karl, to Sandvik Kosta GmbH; and SMW Schneider & Weisshaupt GmbH. Face driver for centering and driving workpieces chucked in a lathe. 4,677,885, 7-7-87, Cl. 82-40.00R.

Schmid, Hermann, to Texas Instruments Incorporated. Injection mold for producing the housings of integrated circuits. 4,697,784, 10-6-87, Cl. 249-119.000.

Schmid, Hermann; Sjoberg, Per; and Svensson, Leif, to Nobel Kemi AB. Explosive charges. 4,706,567, 11-17-87, Cl. 102-318.000.

Schmid, Hermann: *See*—
Bolinder, Boo; and Schmid, Hermann, 4,654,093, Cl. 149-3.000.

Schmid, Horst: *See*—
Doswald, Paul; Moriconi, Emil; Moser, Helmut; and Schmid, Horst, 4,665,162, Cl. 534-606.000.

Schmid, Jochen: *See*—
Schepky, Gottfried; Brickl, Rolf; Gruber, Peter; Schmid, Jochen; and Springmeier, Ursula, 4,650,664, Cl. 424-456.000.

Schmid, Johann J., to Willi Studer AG. Method for determining the starting point and the end point of closed spatial signal patterns. 4,700,712, 10-20-87, Cl. 128-699.000.

Schmid, Karl, to Henkel Kommanditgesellschaft auf Aktien. Process for the preparation of fatty acid alkyl esters having improved processing properties. 4,650,611, 3-17-87, Cl. 260-410.90R.

Schmid, Karl; Stein, Werner; and Baumann, Horst, to Henkel Kommanditgesellschaft auf Aktien. Preparation of light-colored, wash active α-sulfofatty acid. 4,671,900, 6-9-87, Cl. 260-400.000.

Schmid, Karl H.: *See*—
Piorr, Robert; Panthel, Guenter; Schmid, Karl H.; Colignon, Dietmar; Rommerskirchen, Hans J.; Schmidt, Wolfgang; and Ritterbex, Horst, 4,695,409, Cl. 260-400.000.

Schmid, Karl-Heinz: *See*—
Hoefer, Rainer; Schmid, Karl-Heinz; and Wegemand, Bernd, 4,657,999, Cl. 526-200.000.

Schmid, Karl J., to Navistar International Transportation Corp. Roller cam follower with positive lubrication. 4,708,102, 11-24-87, Cl. 123-90.350.

Schmid, Kurt: *See*—
Grunwald, Werner; and Schmid, Kurt, 4,692,657, Cl. 313-130.000.

Schmid Laboratories: *See*—
Gordon, Harry W., 4,692,334, Cl. 424-122.000.

Schmid, Lawrence A. Radial flow filter having air fluidizing backwash means. 4,643,836, 2-17-87, Cl. 210-795.000.

Schmid, Mark E.; Trapp, Robert L.; and Davidoff, Alexander E., to Johns Hopkins University, The. Method and apparatus for bus arbitration using a pseudo-random sequence. 4,667,192, 5-19-87, Cl. 340-825.500.

Schmid, Marlyse, to ETA S.A. Fabriques d'Ebauches. Timepiece with special aesthetic effects. 4,653,930, 3-31-87, Cl. 368-77.000.

Schmid, Norbert: *See*—
Schonwald, Siegfried; Schmid, Norbert; and Trojahn, Hans-Georg, 4,657,487, Cl. 417-68.000.

Schmid, Peter: *See*—
Rossberg, Rolf; and Schmid, Peter, 4,660,972, Cl. 356-73.100.

Schmid, Ralf; Otto, Johann; Bernklau, Daniela; and Knapek, Erwin, to Siemens Aktiengesellschaft. Method and apparatus for localizing weak points within an electrical circuit. 4,640,626, 2-3-87, Cl. 374-57.000.

Schmid, Rene; and Krehl, Hermann, to Rieter Machine Works Ltd. Winding apparatus for forming laps. 4,637,565, 1-20-87, Cl. 242-55.100.

Schmid, Rudolf, to Siemens Aktiengesellschaft. Gas laser. 4,649,546, 3-10-87, Cl. 372-61.000.

Schmid, Samuel; and Riedlinger, Herbert, to Werkzeugmaschinenfabrik, Oerlikon-Buhrle AG. Disc-type ammunition channel for feeding ammunition from a stationary channel to a firing weapon. 4,669,355, 6-2-87, Cl. 89-33.100.

Schmid, Steven R.; Ansel, Robert E.; and Murray, Kevin P., to DeSoto, Inc. Strong and elastic polyurethane polyurea polyacrylates and

electron beam-cured coatings containing the same. 4,716,205, 12-29-87, Cl. 526-261.000.
Schmid, Theobald, Widmaier, Horst, and Wolf, Friedrich, to Hasel Widmaier Fabrik fur Apparate der Fernmelde- und Feinwerktechnik. Keyboard for initiating switching operations or switching signals associated with respective symbols on the surfaces of the keys. 4,649,246, 3-10-87, Cl. 200-159.000.
Schmid, Titus. See—
Eschenberger, Hansulrich, Lacher, Ludwig, and Schmid, Titus, 4,677,710, Cl. 19-218.000.
Schmid, Werner. See—
Boger, Manfred, Reinehr, Dieter, De Sousa, Bernardo, and Schmid, Werner, 4,664,673, Cl. 8-490.000.
Farooq, Saleem, Reinehr, Dieter, and Schmid, Werner, 4,681,593, Cl. 8-128.00R.
Schmid, Wolfgang, to Porsche Aktiengesellschaft. Multi-cylinder internal-combustion engine control device. 4,637,363, 1-20-87, Cl. 123-481.000.
Schmid, Wolfgang. See—
Buck, Manfred, Fehrle, Siegfried, Holzel, Martin, Kabatnik, Wilfried, Schmid, Wolfgang, and Weimer, Karl, 4,693,807, Cl. 227-109.000.
Schmalberger, Rainer, and Hardtke, Sylvia. Sintering process. 4,698,096, 10-6-87, Cl. 75-258.000.
Schmider, Fritz, to Papst-Motoren GmbH & Co. KG. D.C. machine, with mechanical and electrical connection among collector segments. 4,701,655, 10-20-87, Cl. 310-237.000.
Schmidgall, Eugene D., to Hancock Concrete Products Co., Inc. Molding forms for making precast portal assembly sections for culverts. 4,673,159, 6-16-87, Cl. 249-159.000.
Schmidgall, Hartzell H. and Schmidgall, Jon A., to Hawkeye Concrete Products Co. Concrete pipe making machine. 4,708,621, 11-24-87, Cl. 425-183.000.
Schmidgall, Hartzell H. See—
Schmidgall, Jon A., and Schmidgall, Hartzell H., 4,657,498, Cl. 425-112.000.
Schmidgall, Jon A., and Schmidgall, Hartzell H., to Hawkeye Concrete Products Co. Apparatus for lining pipe. 4,657,498, 4-14-87, Cl. 425-112.000.
Schmidgall, Jon A. See—
Schmidgall, Hartzell H., and Schmidgall, Jon A., 4,708,621, Cl. 425-183.000.
Schmidgen, Hans. See—
Bernhardt, Siegfried, and Schmidgen, Hans, 4,697,311, Cl. 19-161.100.
Schmidle, Lisa M., and Hoskins, Stuart D. Multipulsing method for operating an ink jet apparatus for printing at high transport speeds. 4,686,539, 8-11-87, Cl. 346-1.100.
Schmidli, Pierre. See—
Meister, Pierre-Andre, Schmidli, Pierre, and Seltenmann, Bertrand, 4,695,168, Cl. 368-31.000.
Schmidlin, Fred W., to Xerox Corporation. Development apparatus. 4,647,179, 3-3-87, Cl. 355-3.0DD.
Schmidt, Adolf. See—
Hendricks, Udo W., and Schmidt, Adolf, 4,701,284, Cl. 260-513.00N.
Hendricks, Udo W., and Schmidt, Adolf, 4,705,889, Cl. 562-564.000.
Schmidt, Albert L., Sherwin, Gary W., Blackburn, Kenneth K., and Johnson, John L., to Westinghouse Electric Corp. Disposable monitor for an EEG head set. 4,706,679, 11-17-87, Cl. 128-639.000.
Schmidt, Alfred. Apparatus for limiting back pressure in an exhaust-type engine suppressor. 4,682,674, 7-28-87, Cl. 188-273.000.
Schmidt, Alfred, to Ing. Alfred Schmidt GmbH. Rotary snow plough. 4,715,134, 12-29-87, Cl. 37-238.000.
Schmidt, Alfred W., and Reed, Douglas G., to Fabco-Air, Inc. Power operated gripper. 4,660,877, 4-28-87, Cl. 294-88.000.
Schmidt, Arno Siegmar. See—
Vogen, Heinz-Werner, and Schmidt, Arno Siegmar, 4,644,086, Cl. 568-804.000.
Schmidt, Baerbel, Sanstleben, Walter, and Lysaght, Michael J. Process and apparatus for obtaining blood plasma. 4,639,245, 1-27-87, Cl. 604-6.000.
Schmidt, Bernhard. See—
Khoe, Gook D., Rittich, Dieter, Schmidt, Bernhard, and van Leest, Johannes H. F. M., 4,657,338, Cl. 350-96.210.
Schmidt, Birgit. See—
Weddigen, Gerd, Huber, Robert, Schmidt, Birgit, and Schneider, Hartmut, 4,639,496, Cl. 525-506.000.
Schmidt, Bruce C. In-flight problem situation simulator. 4,673,356, 6-16-87, Cl. 434-35.000.
Schmidt, Carson T. See—
Goldsbury, Timothy G., and Schmidt, Carson T., 4,640,312, Cl. 371-16.000.
Schmidt, Christopher O. See—
Iranmanesh, Ali, and Schmidt, Christopher O., 4,641,416, Cl. 29-576.00W.
Schmidt, Clayton C. See—
Kroon, Robert J., and Schmidt, Clayton C., 4,674,806, Cl. 312-250.000.
Schmidt, Conrad. See—
Weddigen, Gert, Flatz, Josef, Schmidt, Conrad, Huber, Robert, and Pohmer, Gerhard, 4,670,511, Cl. 525-138.000.
Schmidt, Delf. See—
Benz, Gunter, Metzger, Karl G., Pfitzner, Jorg, Schmidt, Delf, and Zeiler, Hans-Joachim, 4,670,542, Cl. 530-331.000.
Schmidt, Detlef W. See—
Kochanski, Ronald P., and Schmidt, Detlef W., 4,660,069, Cl. 357-68.000.
Schmidt, Dieter. See—
Breuninger, Manfred, and Schmidt, Dieter, 4,694,084, Cl. 546-25.000.
Hopfensperger, Reinhold, and Schmidt, Dieter, 4,662,858, Cl. 415-119.000.
Schmidt, Dietrich F., to Capitol Products Corporation. Thermal barrier hollow or construction element. 4,655,366, 9-25-87, Cl. 52-731.000.
Schmidt, Donald L., and McEwen, Gerald K., to Dow Chemical Company, The. Novel phosphinyl-containing ethylenically unsaturated compounds. 4,658,003, 4-14-87, Cl. 526-279.000.
Schmidt, Donald L. See—
Dyen, Thomas E., Schmidt, Donald L., Kau, Ivy L. Woolley, Ritchie A., Whipple, Sharon S., Ethiger, Richard F., and Pickman, Dale M., 4,704,324, Cl. 427-308.400.
Schmidt, Donald R., to Ericon Systems, Ltd. Full-flow filter for internal combustion engine, adaptable for use with a by-pass filter. 4,672,932, 6-16-87, Cl. 123-196.00A.
Schmidt, Douglass N. See—
Finnan, Jeffrey L., Lisa, Rudolph E., and Schmidt, Douglass N., 4,710,519, Cl. 514-629.000.
Schmidt, E. Michael, and Price, P. Michael, to Hydro Industries, Inc. Pipe cap extractor apparatus. 4,691,424, 9-8-87, Cl. 29-241.000.
Schmidt, Edward D., to E.D.S. Company. High fiber bread and related products. 4,711,786, 12-8-87, Cl. 426-19.000.
Schmidt, Eric R., to Curco Incorporated. Differential pressure sensitive adhesive joined business form. 4,696,843, 9-29-87, Cl. 428-42.000.
Schmidt, Erich, to MZW-Maschinenfabrik Zuckermann Gesellschaft m.b.H. Device for the transverse and/or longitudinal working of wood workpieces. 4,655,441, 4-7-87, Cl. 269-61.000.
Schmidt, Eugene H. Row following guidance device for a tractor-drawn row crop implement. 4,640,365, 2-3-87, Cl. 172-24.000.
Schmidt Feintechnik GmbH. See—
Schmidt, Rolf, and Schneider, Roland, 4,712,437, Cl. 403-231.000.
Schmidt, Frank T., to Coleman Company, Inc., The. Insulated assembly for electrode of piezoelectric ignition device. 4,691,136, 9-1-87, Cl. 310-339.000.
Schmidt, Franklin. Light duty oil burner. 4,651,926, 3-24-87, Cl. 239-61.000.
Schmidt, Franz. See—
Berg, Richard, Hass, Klaus, Laun, Martin, Schmidt, Franz, and Wetzel, Gerhard, 4,654,396, Cl. 524-401.000.
Schmidt, Friedrich. See—
Krauthausen, Edmund, and Schmidt, Friedrich, 4,661,047, Cl. 210-616.000.
Schmidt, Fritz. See—
Klinkner, Walter, and Schmidt, Fritz, 4,665,691, Cl. 280-707.000.
Schmidt, Gary W. See—
Santos, Abelardo M., Calabrese, Peter J., Schmidt, Gary W., and Bujese, David P., 4,661,431, Cl. 430-126.000.
Schmidt, George E., Jr. See—
Hubert, Carl H., Mills, Paul A., Furin, Thomas J., Mohlhenrich, Ludwig, Schmidt, George E., Jr., and Swain, James F., 4,657,210, Cl. 244-158.00R.
Schmidt, George S., to General Electric Company. Surface parallelism measurement system. 4,660,294, 4-28-87, Cl. 33-503.000.
Schmidt, George S. See—
Ades, Adrian R., and Schmidt, George S., 4,635,726, Cl. 29-252.000.
Schmidt, Gerhard, and Lehmann, Wolfgang, to Beringer, Dobler-zeugnisse GmbH. Screen surfacing with exchangeable screen elements. 4,670,136, 6-2-87, Cl. 209-403.000.
Schmidt, Gerhard, to Flour City Architectural Metals, Division of E.G. Smith Construction Products, Inc. Infrared radiant heater. 4,692,578, 7-28-87, Cl. 126-91.00R.
Schmidt, Gerhard, Neukam, Christian, and Schmidt, Heinrich, to Bise-Lehmann AG. Screening device. 4,708,795, 11-24-87, Cl. 210-388.000.
Schmidt, Gottfried, Busch, Edgar, and Schilling, Lothar, to Pfaff-Industriemaschinen GmbH. Embroidery frame securing device. 4,644,881, 2-24-87, Cl. 112-103.000.
Schmidt, Gregory F. See—
Coleman, William M., III, Schmidt, Gregory F., Campbell, Richard E., Jr., and Delaney, Mark S., 4,659,655, Cl. 502-113.000.
Schmidt, Gregory W. See—
Hier, Richard G., and Schmidt, Gregory W., 4,667,304, Cl. 364-525.000.
Schmidt, Gunter P., to G-A-T-M Corporation. Aerial terminal for telecommunication cables. 4,694,118, 9-15-87, Cl. 174-43.000.
Schmidt, Gunther, and Koch, Joseph W. M., to W. Strikfeldt & Koch GmbH. Shaft melting furnace for melting metals. 4,667,438, 5-18-87, Cl. 432-57.000.
Schmidt, Gunther, to Parker Pen Company, The. Multicolor writing implement. 4,702,633, 10-27-87, Cl. 401-34.000.
Schmidt, Gyorgy. See—
Csery, Huba, Czigany, Imre, Horvath, Zoltan, Kerenyi, Ivan, Kiss, Norbert, and Schmidt, Gyorgy, 4,644,550, Cl. 372-40.000.
Schmidt, Hans-Dieter. See—
Hafner, Gunther, Nowzkat, Karl-Ernst, Schmidt, Hans-Dieter, Letsche, Ulrich, and Bauer, Bernhard, 4,655,254, Cl. 137-625.65.
Kuhl, Hans-Dieter, and Schmidt, Hans-Dieter, 4,714,484, Cl. 55-170.000.

Schmidt, Hans-Friedrich. *See*—
Steinberger, Rolf; Schlag, Johannes; Schlichting, Karl; Seiler, Erhard; Von Tomkewitsch, Sibylle; and Schmidt, Hans-Friedrich. 4,655,964. Cl. 252-511.000.

Schmidt, Hans-Georg, to Dynamit Nobel Aktiengesellschaft. Process for the preparation of vinylcyclopropanecarboxylic acid derivatives. 4,673,760. 6-16-87. Cl. 560-124.000.

Schmidt, Hans J. *See*—
Diesel, Hans-Dieter; Schmidt, Hans J.; and Sauer, Burkhard. 4,652,482. Cl. 428-151.000.

Schmidt, Hans-Joachim. *See*—
Fernholz, Hans; Krekeler, Hans; Roscher, Gunter; Schmidt, Hans-Joachim; Schmitz, Heinz; and Wunder, Friedrich. 4,668,819. Cl. 560-245.000.

Schmidt, Hans U., and Werner, Frank, to BASF Aktiengesellschaft. Process for the preparation of optionally cellular polyurethane polyurea molded parts with improved demolding characteristics. 4,636,531. 1-13-87. Cl. 521-163.000.

Schmidt, Hans U. *See*—
Werner, Frank; Marx, Matthias; and Schmidt, Hans U., 4,698,371. Cl. 521-131.000.

Schmidt, Hans-Werner; Kroh, Walter; Hirsch, Martin; Rosenthal, Karlheinz; and Yetmen, Yilmaz, to Metallgesellschaft Aktiengesellschaft and Reynolds Metals Company. Method of processing sodium oxalate formed during the digestion of bauxite. 4,643,885. 2-17-87. Cl. 423-119.000.

Schmidt, Hans-Werner; Kroh, Walter; Hirsch, Martin; Rosenthal, Karlheinz; and Yetmen, Yilmaz, to Metallgesellschaft Aktiengesellschaft. Method of processing sodium oxalate formed during the digestion of bauxite. 4,663,132. 5-5-87. Cl. 423-119.000.

Schmidt, Hans-Werner. *See*—
Erbach, Karl-Heinz; Neumann, Peter; Dust, Matthias; Ringsdorf, Helmut; Schmidt, Hans-Werner; Baur, Guenter; Windscheid, Friedrich; and Kiefer, Rudolf. 4,702,945. Cl. 428-1.000.

Schmidt, Harald. *See*—
Freidenschuss, Otto; Herdin, Guenther; Schmidt, Harald; and Schremer, Emerich. 4,715,541. Cl. 239-533.400.
Morell, Josef; Freudenschuss, Otto; and Schmidt, Harald. 4,715,542. Cl. 239-533.900.

Schmidt, Harald H., and McDowall, Rory, to Mold-Masters Limited. Self-mounted manifold block for variable orientation of injection molding nozzle. 4,702,689. 10-27-87. Cl. 425-548.000.

Schmidt, Harald H., to Mold-Masters Limited. Dual feed bushing for multi-cavity injection molding. 4,705,473. 11-10-87. Cl. 425-549.000.

Schmidt, Heinrich. *See*—
Schmidt, Gerhard; Neukam, Christian; and Schmidt, Heinrich. 4,708,795. Cl. 210-104.000.

Schmidt, Heinbrecht; Koch, Robert; and Seyer, Richard, to Hubner Gummi-und Kunststoff GmbH. Crossover shelter between sections of articulated road and rail vehicles. 4,690,421. 9-1-87. Cl. 280-403.000.

Schmidt, Helmut; Bodenmiller, Anton; and Straka, Alfred, to Kallenbach & Voigt GmbH & Co. Work location for the processing of workpieces. 4,653,715. 3-31-87. Cl. 248-281.100.

Schmidt, Helmut. *See*—
Dolch, Helmut; Arfsten, Henning J.; Schmidt, Helmut; Philipp, Gottfried; and Tuerker, Gerhard. 4,715,999. Cl. 264-1.100.

Schmidt, Henning; Neidele, Walter; and Schmidele, Hermann, to H. Stoll GmbH & Co. Double bed flat knitting machine with sinkers located between the needles. 4,713,948. 12-22-87. Cl. 66-108.000.

Schmidt, Holger. *See*—
Schoene, Hans K.; Heins, Jens-Peter; Geckel, Bernhard; and Schmidt, Holger. 4,672,841. Cl. 73-18.000.
Schoene, Hans K.; Heins, Jens-Peter; Geckel, Bernhard; and Schmidt, Holger. 4,676,091. Cl. 73-18.000.

Schmidt, Horst. *See*—
Kempter, Fritz E.; Petersen, Harro; Schupp, Eberhard; Sabelus, Gunther; and Schmidt, Horst. 4,647,604. Cl. 523-402.000.

Schmidt, Howard. *See*—
Mott, Donald H.; and Schmidt, Howard. 4,668,527. Cl. 123-188.0AA.

Schmidt, Ingo. *See*—
Hinzpeter, Jurgen; and Schmidt, Ingo. 4,680,151. Cl. 264-40.500.

Schmidt, James K. *See*—
Ahearn, John E.; Frates, Raymond A.; Girard, Dennis; Koepke, Richard A.; Schmidt, James K.; and Manson, C. Todd. 4,716,082. Cl. 428-428.000.

Schmidt, Jimmy Q., to United States of America, Army. Method and apparatus for setting a projectile fuze during muzzle exit. 4,649,796. 3-17-87. Cl. 89-6.500.

Schmidt, Josef. *See*—
Pitsey, John L.; and Schmidt, Josef. 4,708,045. Cl. 83-604.000.

Schmidt, Karl Heinz; and Seibt, Artur, to Voest-Alpine Friedmann Gesellschaft M.B.H. Resolver circuit. 4,682,090. 7-21-87. Cl. 318-661.000.

Schmidt, Karl-Heinz; and Feller, Wolfgang, to Intermedicat GmbH. Allosteric conjugates of hemoglobin and use as blood substitutes. 4,698,387. 10-6-87. Cl. 525-54.100.

Schmidt, Karlheinz. *See*—
Vomhof, Paul; Schmidt, Karlheinz; and Oster, Peter. 4,696,434. Cl. 241-282.200.

Schmidt, Kenneth J. Costume jewelry catcher. 4,697,436. 10-6-87. Cl. 63-3.000.

Schmidt, Kenneth J., to General Trailer Co. Load distributor with articulated ground support. 4,705,288. 11-10-87. Cl. 280-405.000R.

Schmidt, Klaus. *See*—
Faupel, Werner; and Schmidt, Klaus. 4,635,605. Cl. 123-440.000.
Kerschbaumer, Franz; and Schmidt, Klaus. 4,657,952. Cl. 523-351.000.

Schmidt-Kuferke, Klaus-Peter; and Feld, Gerhard. Tubular ventilator. 4,640,803. 2-3-87. Cl. 261-64.300.

Schmidt, Kurt. *See*—
Brenner, Heinz; Meyer, Heinrich; and Schmidt, Kurt. 4,697,794. Cl. 267-195.000.

Schmidt, Laszlo. *See*—
Baviere, Marc; Meulu, Jean-Claude; Paul, Tibor; Tozar, Gyorgy; Gaal, Gyorgyi; Schmidt, Laszlo; and Gosztou, Gyula. 4,648,451. Cl. 166-273.000.

Schmidt, Laurence J.; Severson, Randall L.; Tufty, Lyle R.; and Voss, Steven H., to International Business Machines Corporation. Alignately centered disk pack assembly and method. 4,683,505. 7-28-87. Cl. 360-98.000.

Schmidt, Laurence J. *See*—
Neubauer, Jerry L.; Schmidt, Laurence J.; and Voss, Steven H., 4,639,802. Cl. 360-98.000.

Schmidt, Lothar, to Leybold-Heraeus GmbH. Method for the processing of measurement data in a gas friction vacuum meter and a gas friction vacuum meter equipped with a circuit for the practice of this method. 4,640,136. 2-3-87. Cl. 73-753.000.

Schmidt, Lothar, to Wanzler-Herd Und Ofen GmbH. Process and apparatus for the controlled burning of a vertical stack of solid fuel. 4,712,491. 12-15-87. Cl. 110-346.000.

Schmidt, Lothar. *See*—
Bauer, Peter-Josef; Mannle, Erik; Rapp, Kurt; Schmel, Hans-Peter; and Schmidt, Lothar. 4,655,160. Cl. 123-361.000.

Schmidt, Lothar-Werner. Blank for parallelepipedal boxes or box elements. 4,664,310. 5-12-87. Cl. 229-87.000.

Schmidt, Manfred; Paul, Winfried; Freitag, Dieter; and Rathmann, Dietrich, to Bayer Aktiengesellschaft. Thermoplastic, polysiloxane-polyester (carbonate) block copolymers, their preparation and use. 4,631,922. 7-21-87. Cl. 525-474.000.

Schmidt, Manfred; and Yeater, Robert P., to Mobay Corporation. Thermoplastic polyurethane compositions having improved flame resistance. 4,690,964. 9-1-87. Cl. 524-125.000.

Schmidt, Manfred; and Fenicle, Theodore W., to Bethlehem Steel Corporation. Continuous caster tundish having wall dams. 4,715,586. 12-29-87. Cl. 266-275.000.

Schmidt, Manfred. *See*—
Brunner, Henri; Schonenberger, Helmut; Schmidt, Manfred; Heiz-inger, Ulrich; Unger, Gerfried; and Engel, Jurgen. 4,704,464. Cl. 556-137.000.
Hohlein, Peter; Schmidt, Manfred; Podzun, Josef; Roberi, Bernd; and Sonntag, Michael. 4,639,499. Cl. 526-285.000.
Kauth, Hermann; Bosshammer, Hubert; Schmidt, Manfred; and Freitag, Dieter. 4,668,720. Cl. 524-86.000.
Kauth, Hermann; Schmidt, Manfred; Freitag, Dieter; Rudolph, Udo; and Kleiner, Frank. 4,701,354. Cl. 564-14.000.
Ley, Hans; Neumock, Udo; Schulz, Peter; Seidler, Horst; Bergbans, Heinz; and Schmidt, Manfred. 4,648,295. Cl. 82-18.000.
Schuck, Georg; Begner, Martin; Schmidt, Manfred; and Kowarsch, Ulrich. 4,674,010. Cl. 280-615.000.

Schmidt, Martin. *See*—
Dotzauer, Peter; and Schmidt, Martin. 4,709,559. Cl. 62-499.000.

Schmidt, Mathew G. *See*—
Gray, Timothy P.; Randall, Russel R.; and Schmidt, Mathew G., 4,668,563. Cl. 250-256.000.

Schmidt, Matthias. Plastic bee comb and method for breeding more efficient and more resistant bees. 4,651,372. 3-24-87. Cl. 6-11.000.

Schmidt, Nancy K. *See*—
Bales, Bruce M.; London, Steven M.; and Schmidt, Nancy K., 4,661,974. Cl. 379-198.000.

Schmidt, Oskar; and Kubica, Wladislaw, to Lim Kunststoff Technologie Gesellschaft m.b.H. Tire made of castable or sprayable elastomers. 4,708,187. 11-24-87. Cl. 152-330.000.

Schmidt, Oskar, to Lim Kunststoff Technologie Gesellschaft m.b.H. Pneumatic tire. 4,711,284. 12-8-87. Cl. 152-452.000.

Schmidt, Oskar J., to Lim Kunststoff Technologie Gesellschaft m.b.H. Method of making elastomeric shoe soles. 4,657,716. 4-14-87. Cl. 264-45.700.

Schmidt, Otomar. *See*—
Schultz, Ronald E.; Schmidt, Otomar; and Johnson, David A., 4,638,452. Cl. 364-900.000.

Schmidt-Ott, Andreas. *See*—
Siegmann, Hans-Christoph; Burtscher, Heinz; and Schmidt-Ott, Andreas. 4,652,368. Cl. 340-628.000.

Schmidt, Otto H.; Heine, Helmut A.; and Rosenbusch, Helmut, to Propper Manufacturing Co., Inc.; and Heine Optotechnik GmbH & Co. KG. Headband with optical device adjustably coupled thereto. 4,681,413. 7-21-87. Cl. 351-205.000.

Schmidt, Otto H.; Heine, Helmut A.; and Rosenbusch, Helmut, to Propper Manufacturing Co., Inc.; and Heine Optotechnik GmbH & Co. KG. Binocular indirect ophthalmoscope. 4,684,227. 8-4-87. Cl. 351-205.000.

Schmidt, Paul, to Dr.-Ing. Manfrid Dreher GmbH & Co. KG. Centrifugal stirring apparatus. 4,650,341. 3-17-87. Cl. 366-291.000.

Schmidt, Paul. Apparatus for driving pipes through the ground. 4,650,374. 3-17-87. Cl. 405-184.000.

Schmidt, Paul. Apparatus for driving pipes through the ground. 4,671,703. 6-9-87. Cl. 405-184.000.

Schmidt, Paul J.; and Hung, William M., to Hilton-Davis Chemical, The. Compositions, process and systems. 4,636,820, 1-13-87, Cl. 346-224.000.

Schmidt, Paul J.; and Hung, William M., to Hilton-Davis Chemical Co., The. 3-(ether and thioether)-3-(indolyl)-phthalides. 4,661,605, 4-28-87, Cl. 548-463.000.

Schmidt, Paul J.; and Hung, William M., to Hilton-Davis Chemical Co., The. Marking systems. 4,688,059, 8-18-87, Cl. 503-220.000.

Schmidt, Paul J.; and Hung, William M.; to Hilton-Davis Chemical Co., The. 9-julolidinyl derivatives and process of preparing them. 4,697,018, 9-29-87, Cl. 546-94.000.

Schmidt, Peter. Bathtub insert for handicapped persons. 4,660,234, 4-28-87, Cl. 4-566.000.

Schmidt, Peter: *See*—
Jacoby, Hans-Dieter; and Schmidt, Peter, 4,695,215, Cl. 414-225.000.
Reinold, Martin; and Schmidt, Peter, 4,669,430, Cl. 123-179.0BG.
Witt, Jorg-D.; and Schmidt, Peter, 4,651,813, Cl. 165-30.000.

Schmidt, Peter-Jurgen: *See*—
Blocher, Eberhard; Grob, Ferdinand; Schmidt, Peter-Jurgen; Schmitt, Manfred; and Wahl, Josef, 4,674,459, Cl. 123-436.000.
Blocher, Eberhard; Kohler, Rolf; Schmidt, Peter-Jurgen; Schmitt, Manfred; and Wahl, Josef, 4,676,215, Cl. 123-489.000.
Bonse, Bernhard; and Schmidt, Peter-Jurgen, 4,651,697, Cl. 123-436.000.
Grob, Ferdinand; Schmidt, Peter-Jurgen; and Wahl, Josef, 4,646,697, Cl. 123-436.000.

Schmidt, Phillip A., to Weyerhaeuser Company. Method and apparatus for flail debarking. 4,690,187, 9-1-87, Cl. 144-340.000.

Schmidt, Phillip A., to Weyerhaeuser Company. Vertical flail delimber. 4,711,280, 12-8-87, Cl. 144-208.00J.

Schmidt, Rainer: *See*—
Hecker, Erich; Osswald, Hans; and Schmidt, Rainer, 4,716,179, Cl. 514-691.000.

Schmidt, Reinhard: *See*—
Hofler, Siegfried; Rode, Konrad; and Schmidt, Reinhard, 4,689,990, Cl. 73-118.100.

Schmidt, Richard, to Robotic Vision Systems, Inc. Arrangement for rapid depth measurement using lens focusing. 4,640,620, 2-3-87, Cl. 356-376.000.

Schmidt, Richard; and Pizzo, Joseph A., Sr., to Enviro-Spray Systems Incorporated. Container stuffing apparatus and method. 4,641,485, 2-10-87, Cl. 53-429.000.

Schmidt, Richard; Stern, Howard; Mauro, Alex; and Ross, Joseph, to Robotic Vision Systems, Inc. Calibration of three-dimensional space. 4,682,894, 7-28-87, Cl. 356-375.000.

Schmidt, Richard; and Pizzo, Joseph A., to Enviro-Spray Systems Incorporated. Automatic container stuffing apparatus and method. 4,696,145, 9-29-87, Cl. 53-436.000.

Schmidt, Richard: *See*—
Ross, Joseph; and Schmidt, Richard, 4,634,278, Cl. 356-376.000.
Ross, Joseph; and Schmidt, Richard, 4,634,279, Cl. 356-376.000.
Ross, Joseph; and Schmidt, Richard, 4,637,058, Cl. 382-48.000.
Ross, Joseph; and Schmidt, Richard, 4,648,717, Cl. 356-376.000.

Schmidt, Richard A.: *See*—
Tanagho, Emil A.; Schmidt, Richard A.; Gleason, Curtis A.; and Lue, Tom F., 4,703,755, Cl. 128-419.00R.

Schmidt, Robert H.: *See*—
Nubson, Richard C.; Howes, Ronald B., Jr.; Carney, Glenn R.; Gabel, Edward R.; Schmidt, Robert H.; Gerlach, Leroy E.; and Polad, Michael D., 4,688,785, Cl. 271-266.000.

Schmidt, Robert J., to UOP Inc. High severity process for xylene production employing a transalkylation zone for xylene isomerization. 4,642,406, 2-10-87, Cl. 585-477.000.

Schmidt, Robert J., to UOP Inc. Xylene producing process having staged catalytic conversion of ethylbenzene. 4,697,039, 9-29-87, Cl. 585-477.000.

Schmidt, Robert J.: *See*—
Johnson, James A.; and Schmidt, Robert J., 4,665,273, Cl. 585-739.000.

Schmidt, Robert R.: *See*—
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,645,528, Cl. 71-90.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochim; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,659,364, Cl. 71-92.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,666,505, Cl. 71-92.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,680,052, Cl. 71-91.000.
Diehr, Hans-Joachim; Fest, Christa; Kirsten, Rolf; Kluth, Joachim; Muller, Klaus-Helmut; Pfister, Theodor; Priesnitz, Uwe; Riebel, Hans-Jochem; Roy, Wolfgang; Santel, Hans-Joachim; and Schmidt, Robert R., 4,704,158, Cl. 71-92.000.
Forster, Heinz; Hofer, Wolfgang; Mues, Volker; Eue, Ludwig; and Schmidt, Robert R., 4,645,525, Cl. 71-88.000.
Forster, Heinz; Klauke, Erich; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, Ludwig; and Schmidt, Robert R., 4,657,577, Cl. 71-86.000.
Forster, Heinz; Diehr, Hans-Joachim; Maurer, Fritz; Klauke, Erich; Eue, Ludwig; Santel, Hans-Joachim; Schmidt, Robert R.; Reinecke, Paul; and Hanssler, Gerd, 4,708,731, Cl. 71-90.000.
Gehring, Reinhold; Klauke, Erich; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,668,280, Cl. 71-92.000.
•Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,681,618, Cl. 71-92.000.
Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; and Schmidt, Robert R., 4,685,956, Cl. 71-92.000.
Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Lurssen, Klaus; Santel, Hans-Joachim; and Schmidt, Robert R., 4,685,957, Cl. 71-92.000.
Gehring, Reinhold; Lindig, Markus; Schallner, Otto; Santel, Hans-Joachim; Schmidt, Robert R.; and Stetter, Jorg, 4,695,308, Cl. 71-86.000.
Gehring, Reinhold; Schallner, Otto; Stetter, Jorg; Santel, Hans-Joachim; Schmidt, Robert R.; and Lurssen, Klaus, 4,711,658, Cl. 71-92.000.
Knops, Hans-Joachim; Babczinski, Peter; Eue, Ludwig; Santel, Hans-Joachim; and Schmidt, Robert R., 4,670,044, Cl. 71-92.000.
Moriya, Koichi; Priesnitz, Uwe; Riebel, Hans-Jochem; Eue, Ludwig; and Schmidt, Robert R., 4,639,537, Cl. 558-48.000.
Pfister, Theodor; Forster, Heinz; Eue, Ludwig; Schmidt, Robert R.; and Santel, Hans-Joachim, 4,670,040, Cl. 71-86.000.
Schwamborn, Michael; Kuhle, Engelbert; Klauke, Erich; Eue, Ludwig; Schmidt, Robert R.; Santel, Hans-Joachim; and Hanssler, Gerd, 4,640,923, Cl. 514-272.000.
Stetter, Jorg; Wroblowsky, Heinz-Jurgen; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Lurssen, Klaus, 4,638,004, Cl. 514-272.000.
Stetter, Jorg; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Eue, Ludwig, 4,659,366, Cl. 71-92.000.
Wroblowsky, Heinz-Jurgen; Stetter, Jorg; Eue, Ludwig; Schmidt, Robert R.; and Santel, Hans-Joachim, 4,636,245, Cl. 71-90.000.

Schmidt, Roger A., to Cargill, Incorporated. Water reducible phenolic modified alkyd resin. 4,649,173, 3-10-87, Cl. 524-539.000.

Schmidt, Roger N.: *See*—
Miller, John W.; Mittelmark, Melvin F.; and Schmidt, Roger N., 4,707,644, Cl. 318-136.000.

Schmidt, Roland: *See*—
Spies, Hans; Wohrl, Alfons; and Schmidt, Roland, 4,676,166, Cl. 102-362.000.

Schmidt, Rolf; and Schneider, Roland, to Schmidt Feintechnik GmbH. Plotter stylus with cap covered vent. 4,712,937, 12-15-87, Cl. 401-213.000.

Schmidt, Rudolf, to Boge GmbH. Adjustable hydraulic damper apparatus. 4,635,765, 1-13-87, Cl. 188-299.000.

Schmidt, Rudolf: *See*—
Klas, Ernst; Schmidt, Rudolf; Schumacher, Gunther; Stausebach, Dieter; and Zentis, Alfred, 4,699,010, Cl. 73-774.000.

Schmidt, Sabine; Kleinschmit, Peter; and Schwarz, Rudolf, to Degussa Aktiengesellschaft. Aqueous suspension of bentonite and its use in coating thermal insulating molded articles. 4,670,101, 6-2-87, Cl. 162-152.000.

Schmidt, Samuel, to United Technologies Corporation. Inductive displacement transducer with unipolar output. 4,678,991, 7-7-87, Cl. 324-207.000.

Schmidt, Thomas: *See*—
Jackman, Dennis E.; Westphal, Dietmar B.; and Schmidt, Thomas, 4,659,819, Cl. 544-182.000.

Schmidt, Timothy J.: *See*—
Fisher, Alfred J., III; and Schmidt, Timothy J., 4,692,294, Cl. 264-259.000.

Schmidt, Ulrich; and Distl, Richard. Multibeam measuring device, 4,699,514, 10-13-87, Cl. 356-367.000.

Schmidt, Ulrich: *See*—
Distl, Richard; and Schmidt, Ulrich, 4,671,660, Cl. 356-367.000.

Schmidt, Victor P. Pipe coupling. 4,690,434, 9-1-87, Cl. 285-31.000.

Schmidt, Viktor: *See*—
Arendt, Gerhard; Brodbeck, Klaus-Peter; Engenhart, Reinhard; Schmidt, Viktor; and Wedler, Klaus, 4,642,965, Cl. 53-118.

Schmidt, Vinzenz, to Ford Motor Company. Gear selector for manual transmission having reverse gear lockout. 4,706,514, 11-17-87, Cl. 74-476.000.

Schmidt, Volkmar: *See*—
Ulrichs, Klaus; Hibbel, Joseph; Schmidt, Volkmar; Lieder, Burchard; Scheve, Heinrich; Schulze-Frenking, Burchard; and Wolfgang; and Nottebohm, Jurgen, 4,699,773, Cl. 423-396.

Schmidt, Walter: *See*—
Dallhammer, Richard; Donig, Gerhard; Gaul, Hartmut; Schmidt, Walter; Neulinger, Franz; and Schummer, Helmut, 4,670,8, Cl. 363-57.000.

Schmidt, Walter E. Methods and apparatus for the protection and control of computer programs. 4,649,510, 3-10-87, Cl. 364-900.

Schmidt, Walter R. Method for the manufacture of patterned fabrics and circular knitting machine therefor. 4,633,683, 1-6-87, Cl. 66-9.00R.

Schmidt, Walter R., to Karl Eybl Gesellschaft m.b.H. Process of facturing a knitted pile fabric. 4,706,474, 11-17-87, Cl. 66-9.00.

Schmidt, Werner, to Dynamit Nobel Aktiengesellschaft. Stable aqueous impregnating solutions prepared from hydrolyzed alkyl trialkoxysilanes. 4,708,743, 11-24-87, Cl. 106-12.000.

Schmidt, Werner: *See*—
Grauel, Christoph; Kittel, Ludwig; Schmidt, Werner; and Wolf, Ulrich, 4,697,260, Cl. 370-18.000.

Schmidt, Wilfried. *See*—
Friedrich, Gerda; Rasch, Klaus-Dieter; and Schmidt, Wilfried, 4,694,117, Cl. 136-256.000.
Herwig, Jens; Sorenberg, Hagen; Bergmann, Friedhelm; Stiller, Manfred; Schlemmermeyer, Horst; Schmidt, Wilfried; Straube, Hilmar; and Wolter, Helmut, 4,712,434, Cl. 73-864.630.

Schmidt, Wilhelm. *See*—
Schneider, Horst; Schmidt, Wilhelm; and Daniels, Erwin, 4,673,249, Cl. 350-287.000.

Schmidt, Willi. *See*—
Franz, Hans-Joachim; Sadler, Karl-Otto; and Schmidt, Willi, 4,658,747, Cl. 114-85.000.

Schmidt, William W. *See*—
Strampach, Norman A.; Cerchio, Vincent L., Jr.; and Schmidt, William W., 4,652,390, Cl. 252-92.000.

Schmidt, Willy. *See*—
Sadler, Karl-Otto; Schmidt, Willy; and Franz, Hans-Joachim, 4,709,646, Cl. 114-5.000.

Schmidt, Wolfgang, to Emuge-Werk Richard Glimpel Fabrik fuer Praezisionswerkzeuge (vormals Moschkau & Glimpel). Overload clutch particularly for thread-cutting chucks or the like. 4,694,944, 9-22-87, Cl. 192-56.00R.

Schmidt, Wolfgang. *See*—
Piorr, Robert; Panthel, Guenter; Schraud, Karl H.; Colignon, Dietmar; Rommerskirchen, Hans J.; Schmidt, Wolfgang; and Ritterbex, Horst, 4,695,409, Cl. 260-400.000.

Schmidtberger, Rudolf. *See*—
Steuer, Dagmar; and Schmidtberger, Rudolf, 4,649,120, Cl. 436-13.000.

Schmidtlein, Peter. *See*—
Kugeler, Kurt; Jaroni, Ulrich; Kelm, Wieland; Philippen, Peter W.; Schmidtlein, Peter; and Kugeler, Manfred, 4,634,875, Cl. 250-506.100.

Schmidtpott, Friedrich. *See*—
Freyberger, Laurin C.; and Schmidtpott, Friedrich, 4,672,428, Cl. 358-27.000.

Schmidts, Kurt. *See*—
Schaeffer, Norbert; Bettinger, Gunter; Goetz, Klaus; Pfefferkorn, Dietmar; Burkle, Ottmar; Schmidts, Kurt; Schneider, Pierre; Wagner, Werner; Wietholter, Dieter; Dietze, Herbert; and Andriessen, Wilhelmus, 4,709,288, Cl. 360-130.210.
Schoettle, Klaus; Schmidts, Kurt; Kamm, Eugen; and Berger, Heinz, 4,679,110, Cl. 360-132.000.

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Brandenstein, Manfred; Klupfel, Norbert; Pape, Gebhard; Hass, Roland; and Schmiechen, Rolf, 4,679,458, Cl. 74-458.000.

Schmied, Bernhard. *See*—
Geiss, Karl-Heinz; Schmied, Bernhard; Raschack, Manfred; Lehmann, Hans-Dieter; Gries, Josef; and Ruebsamen, Klaus, 4,710,496, Cl. 514-183.000.

Schmiedberg, Winfried. *See*—
Dittmar, Robert W.; and Schmiedberg, Winfried, 4,706,484, Cl. 72-225.000.

Schmiedberg, Winfried F. *See*—
Ginzburg, Vladimir B.; and Schmiedberg, Winfried F., 4,680,010, Cl. 432-148.000.

Schmiedel, Fritz. *See*—
Schoenung, Josef; Schmiedel, Fritz; Handel, Hubert; and Hasbrecker, Hans-Peter, 4,654,189, Cl. 376-265.000.
Schoening, Josef; Schmiedel, Fritz; Hobrecker, Peter; and Winkenbach, Helmut, 4,661,311, Cl. 376-266.000.

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Schmiedel, James P., and Moye, Lawrence D., to Square D Company. Terminal structure for a coil. 4,705,341, 11-10-87, Cl. 439-544.000.

Schmiedel, Manfred. *See*—
Von Gentzkow, Wolfgang; Markert, Helmut; Hauschuldt, Hans; and Schmiedel, Manfred, 4,638,019, Cl. 522-104.000.

Schmieder, Dietmar. *See*—
Hafele, Walter; Kramer, Manfred; Schmieder, Dietmar; and Warga, Johann, 4,640,255, Cl. 123-495.000.

Schmieder, Lothar. Device for measuring forces and torque in different directions. 4,672,855, 6-16-87, Cl. 73-862.040.

Schmiedetechnik/Berghautechnik. *See*—
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Schmieding, Reinhold, to Arthrex Arthroscopy Instruments, Inc. Tension retaining device for surgical procedures. 4,633,865, 1-6-87, Cl. 128-303.00R.

Schmiegel, Karl-Heinz. Vacuum cleaning apparatus. 4,688,292, 8-25-87, Cl. 15-300.00A.

Schmiegel, Klaus K. *See*—
Anderson, David B.; Schmiegel, Klaus K.; and Veenhuizen, Edward L., 4,690,951, Cl. 514-653.000.

Schmiesing, John. *See*—
Leung, Howard K. H.; Nguyen, Bich-Yen; Alvis, John R.; and Schmiesing, John, 4,693,781, Cl. 156-643.000.

Schmit, Louis. *See*—
Lonardi, Emile; and Schmit, Louis, 4,668,253, Cl. 55-215.000.
Ulveling, Leon; Schmit, Louis; and Legille, Edouard, 4,702,288, Cl. 141-67.000.

Schmitges, Claus. *See*—
Raddatz, Peter; and Schmitges, Claus, 4,666,888, Cl. 514-18.000.

Schmitges, Claus J. *See*—
Holzemann, Gunter; Raddatz, Peter; Jonczyk, Alfred; and Schmitges, Claus J., 4,709,010, Cl. 530-323.000.

Schmits, Heinz-Herbert. *See*—
Hahn, Franz D.; Heinemann, Otto; and Schmits, Heinz-Herbert, 4,660,805, Cl. 251-328.000.
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Schmitt, Armin, to Luwa AG. Process for sterilizing a cocoa paste. 4,693,904, 9-15-87, Cl. 426-521.000.

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Hambrecht, Juergen; Schmitt, Burghard; Swoboda, Johann; Wassmuth, Georg; Bernhard, Claus; and Stephan, Rudolf, 4,634,734, Cl. 525-85.000.
Naarmann, Herbert; Schmitt, Burghard; and Barzynski, Helmut, 4,665,129, Cl. 525-186.000.

Schmitt, Donald E. *See*—
Packard, Douglas T.; and Schmitt, Donald E., 4,692,674, Cl. 318-254.000.

Schmitt, Donald J. *See*—
Ferroni, C. Paul; Linton, Jonathan L.; and Schmitt, Donald J., 4,669,182, Cl. 29-622.000.

Schmitt, Eugene W., and Campbell, Robert E., to Sloan Valve Company. Empty and load valve for a railroad car brake system. 4,648,661, 3-10-87, Cl. 303-23.00R.

Schmitt, Fritz, to General Motors Corporation. Electrical fuse assembly. 4,706,059, 11-10-87, Cl. 337-297.000.

Schmitt, Guenter. *See*—
Kalender, Willi; Schmitt, Guenter; and Suess, Christoph, 4,651,335, Cl. 378-20.000.

Schmitt, Hans-Georg. *See*—
Beck, Gunther; Remecke, Paul; Paulus, Wilfried; and Schmitt, Hans-Georg, 4,698,357, Cl. 514-370.000.
Oeckl, Siegfried; Schade, Gerold; Schmitt, Hans-Georg; Paulus, Wilfried; and Geuth, Hermann, 4,647,687, Cl. 558-439.000.
Sasse, Klaus; Brandes, Wilhelm; Hanssler, Gerd; Remecke, Paul; Schmitt, Hans-Georg; and Paulus, Wilfried, 4,663,327, Cl. 514-275.000.
Schade, Gerold; Paulus, Wilfried; and Schmitt, Hans-Georg, 4,686,236, Cl. 514-526.000.

Schmitt, Harold W. *See*—
Hurst, G. Samuel; Schmitt, Harold W.; Thomnard, Norbert; and Whitaker, Tom J., 4,699,751, Cl. 376-234.000.

Schmitt, Helmut; Schurig, Helmuth; Bergner, Dieter; and Hannesen, Kurt, to Uhde GmbH. Electrolyzer. 4,664,770, 5-12-87, Cl. 204-252.000.

Schmitt, Helwig, and Scharf, Alois, to BISO Butter GmbH & Co. KG. Harvester-thresher. 4,646,757, 3-3-87, Cl. 130-27.00R.

Schmitt, Jerry C. Radar altimeter static accuracy circuit. 4,714,928, 12-22-87, Cl. 342-174.000.

Schmitt, Joseph L., Jr. *See*—
Card, Roger J.; and Schmitt, Joseph L., Jr., 4,654,440, Cl. 564-479.000.

Schmitt, Karl H. *See*—
Winkelmann, Manfred; Roithfuss, Hans; Moschner, Udo; and Schmitt, Karl H., 4,695,043, Cl. 266-265.000.

Schmitt, Kenneth J. *See*—
Eastlund, Bernard J.; Schmitt, Kenneth J.; and Bass, Ronald M., 4,678,034, Cl. 166-248.000.

Schmitt, Kirk D., to Mobil Oil Corporation. Preparation of unsubstituted cyclic and heterocyclic methane sulfonates. 4,665,196, 5-12-87, Cl. 548-570.000.

Schmitt, Klaus; Schoen, Klaus-Peter; Riedel, Peter; Lingnau, Juergen; and Pfiefke, Engelbert, to Hoechst Aktiengesellschaft. Electrophotographic process for preparing printing forms using alkaline decoater solution. 4,684,594, 8-4-87, Cl. 430-49.000.

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Schmitt-Maass, Nikolaus. *See*—
Baumert, Heinz; Schmitt-Maass, Nikolaus; and Karb, Erich, 4,687,254, Cl. 297-481.000.

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Blocher, Eberhard; Grob, Ferdinand; Schmidt, Peter-Jurgen; Schmitt, Manfred; and Wahl, Josef, 4,674,459, Cl. 123-436.000.
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Saumweber, Eckart; and Schmitt, Otto, 4,640,390, Cl. 188-73.3[illegible].

Schmitt, Paul S., to Corning Glass Works. Kinematically determinate glass pressing mold assembly and method of use. 4,696,692, 9-29-87, Cl. 65-102.000.

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Schmitt, Ray F.; Gavin, Joseph A.; Kempel, Francis D.; and Waltrick, Charles N., deceased (by Waltrick, Steven B., Cathy M. Waltrick, legal representatives), to United States of America, Navy. Oil content monitor/control system. 4,649,281, 3-10-87, Cl. 250-574.000.
Schmitt, Robert J.; Perez, Leon A.; Montague, Robert A.; Tetenbaum, Marvin T.; and Van Buskirk, Ellor J., to PPG Industries, Inc. Elastomeric coating compositions. 4,692,382, 9-8-87, Cl. 428-414.000.
Schmitt, Robert J.; Perez, Leon A.; Montague, Robert A.; and Tetenbaum, Marvin T., to PPG Industries, Inc. Polycarbonate based elastomeric coating compositions. 4,692,383, 9-8-87, Cl. 428-414.000.
Schmitt, Robert J. *See*—
Carson, Dennis W.; Schmitt, Robert J.; Seneker, Carl A.; Van Kuren, Thomas A.; and Wallace, David R., 4,683,346, Cl. 525-486.000.
Schmitt, Rudiger. *See*—
Stetter, Karl O.; and Schmitt, Rudiger, 4,693,978, Cl. 435-199.000.
Stetter, Karl O.; and Schmitt, Rudiger, 4,693,979, Cl. 435-199.000.
Stetter, Karl O.; Schmitt, Rudiger; and Laue, Frank, 4,693,980, Cl. 435-199.000.
Schmitt, Thomas J., to Emerson Electric Co. Structural support shoe and method of manufacturing the same. 4,694,932, 9-22-87, Cl. 182-109.000.
Schmitt, Thomas M.; Allen, George M.; and Davis, Pauls, to BASF Corporation. Process for improving the ultraviolet light transmittance of ethylene glycol. 4,647,705, 3-3-87, Cl. 568-858.000.
Schmitt, Urban; Deeg, Rolf; and Ziegenhorn, Joachim, to Boehringer Mannheim GmbH. Process and reagent for the determination of the hemoglobin-haptoglobin complex in the presence of free hemoglobin. 4,695,552, 9-22-87, Cl. 436-66.000.
Schmitt, Volker. *See*—
Goehle, Rolf; Schmitt, Volker; Bruckner, Werner; and Greefe, Klaus, 4,698,609, Cl. 335-255.000.
Schmitt, Walter, to Dr. Johannes Heidenhain GmbH. Reference mark coding system. 4,645,925, 2-24-87, Cl. 250-237.00G.
Schmitt, Walter, to Dr. Johannes Heidenhain GmbH. Reference mark identification system for measuring instrument. 4,654,527, 3-31-87, Cl. 250-237.00G.
Schmitt, Walter, to Dr. Johannes Heidenhain GmbH. Measuring device error monitoring system. 4,678,948, 7-7-87, Cl. 307-511.000.
Schmitt, Walter, to Johannes Heidenhain GmbH. Signal transmission system. 4,688,019, 8-18-87, Cl. 340-347.00P.
Schmitt, Walter, to Johannes Heidenhain GmbH. Measuring scale coding system for length or angle measuring instruments. 4,701,615, 10-20-87, Cl. 250-237.00G.
Schmitt, Wilfried. *See*—
Schorr, Manfred; and Schmitt, Wilfried, 4,692,523, Cl. 540-533.000.
Schmitt, Wilhelm, to Carl Freudenberg, Firma. Method of making a shaft seal ring. 4,672,733, 6-16-87, Cl. 29-511.000.
Schmitt, William H. *See*—
Ramirez, Jose E.; Tanko, Robert J.; Vishnupad, Mohan; and Schmitt, William H., 4,654,213, Cl. 424-145.000.
Schmitt, Wolfgang; and Forch, Hans, to Carl Freudenberg, Firma. Radial shaft seal ring with backfeed ribs and damming ribs. 4,695,063, 9-22-87, Cl. 277-134.000.
Schmitt, Wolfgang. *See*—
Blum, Klaus-Dieter; and Schmitt, Wolfgang, 4,699,001, Cl. 73-121.000.
Fuchs, Dieter; and Schmitt, Wolfgang, 4,645,215, Cl. 277-152.000.
Schmittbetz, Klaus, to Klockner-Humboldt-Deutz Aktiengesellschaft. Mounted implement hitch for farm tractors. 4,711,460, 12-8-87, Cl. 280-460.00A.
Schmitte, Franz-Josef; Muller, Dieter; and Groth, Rolf. Method for the manufacture of a tempered and/or curved glass pane with reduced transmission. 4,715,879, 12-29-87, Cl. 65-60.200.
Schmitter, Andre. *See*—
Pedrazzetti, Enea; Schmitter, Andre; and Meyer, Walter W., 4,708,979, Cl. 524-249.000.
Schmitz, Albert. *See*—
Bethge, Gerhard; and Schmitz, Albert, 4,669,250, Cl. 53-331.500.
Schmitz, Axel, to Klockner-Humboldt-Deutz Aktiengesellschaft. Apparatus for vertical and axial adjustment of a steering wheel. 4,656,888, 4-14-87, Cl. 74-493.000.
Schmitz, Beat. *See*—
Stahl, Peter H.; and Schmitz, Beat, 4,639,338, Cl. 260-502.50C.
Stahl, Peter H.; and Schmitz, Beat, 4,711,880, Cl. 514-108.000.
Schmitz, Bertram. Two-sided brush and container. 4,642,835, 2-17-87, Cl. 15-104.00A.
Schmitz, Charles E.; Wimberly, Richard C.; and Carlson, Donald J., to Grumman Aerospace Corporation. High density multi-layered integrated circuit package. 4,659,931, 4-21-87, Cl. 250-338.000.
Schmitz, Charles E., to Grumman Aerospace Corporation. Infrared focal plane module. 4,703,179, 10-27-87, Cl. 250-211.00R.
Schmitz, Christoph; and Kraxner, Istvan, to Klockner-Humboldt-Deutz Aktiengesellschaft. Apparatus and method for the continuous calcination of aluminum hydroxide. 4,671,497, 6-9-87, Cl. 266-172.000.
Schmitz, Erwin. *See*—
Hanke, Ernst W.; Bonk, Benno; and Schmitz, Erwin, 4,661,244, Cl. 209-139.200.
Schmitz, Franz J. *See*—
Tilgner, Hans G.; and Schmitz, Franz J., 4,664,918, Cl. 426-14.000.
Schmitz, Friedrich. *See*—
Bestek, Heinz; Ewald, Werner; Hennecke, Hans-Peter; Roeder, Alfred; and Schmitz, Friedrich, 4,636,379, Cl. 423-640.000.
Schmitz, Guenter. *See*—
Langlitz, Karlheinz; and Schmitz, Guenter, 4,660,809, Cl. 266-246.000.
Schmitz, Heinz. *See*—
Fernholz, Hans; Krekeler, Hans; Roscher, Gunter; Schmidt, Hei
Joachim; Schmitz, Heinz; and Wunder, Friedrich, 4,668,819, C
560-245.000.
Wank, Joachim; Waldenrath, Werner; Schmitz, Heinz; and Pakul
Gunter, 4,707,396, Cl. 428-216.000.
Schmitz, Herbert. *See*—
Klarenbach, Hans W.; and Schmitz, Herbert, 4,669,630, C
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Wilhelmus F., to U.S. Philips Corporation. Teletext device w
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Schmitz, Herman J. R. *See*—
Froling, Melchert H.; and Schmitz, Herman J. R., 4,701,794, C
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Geerings, Michael P. W.; Christis, Wilhelmus J.; Fekkes, Wilh
mus F.; and Schmitz, Herman J. R., 4,697,046, Cl. 178-1.000.
Schmitz, James R. *See*—
Nemesi, Stephen A.; and Schmitz, James R., 4,660,779, C
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Schmitz, Joachim; Wagner, Franz; and Siegler, Adrian, to Bellhem
Metallwerk GmbH. Circulating rack. 4,676,560, 6-30-87, C
312-268.000.
Schmitz, Johannes H. A. *See*—
van der Hoorn, Gustaaf H. A.; van der Staak, Cuperi G. L.; La
berts, Joseph J. M.; and Schmitz, Johannes H. A., 4,660,936, C
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Schmitz, John P., to United States of America, Army. Polylactic-co
glycolic acid copolymer combined with decalcified freeze-dried b
for use as a bone repair material. 4,637,931, 1-20-87, Cl. 424-78.0
Schmitz, Jurgen, to Mannesmann Rexroth GmbH. Method and appa
tus for compensating the variable weight of a mass acting on a
draulic drive, in particular for the upright drive cylinder of a lapp
machine. 4,712,470, 12-15-87, Cl. 91-433.000.
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Langowski, Horst-Christian; and Schmitz, Klaus, 4,658,392, C
369-288.000.
Schmitz, Robert E. *See*—
Brull, John J.; and Schmitz, Robert E., 4,648,214, Cl. 51-400.0
Schmitz, Steven R. *See*—
Davis, Loren G.; Schmitz, Steven R.; and Tauer, Dennis
4,712,210, Cl. 370-77.000.
Schmitz, Thomas R., to Cameron Iron Works, Inc. Tubular member
underwater connection having volume. 4,662,663, 5-5-87,
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Schmitz, Thomas R.; and Taylor, William M., to Cameron Iron Wo
Inc. Flowline adjustable joint. 4,696,494, 9-29-87, Cl. 285-18.000.
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Schmitz, Walter; and Koch, Jurgen, to Licentia Patent-Verwaltu
GmbH. Method for producing a carrier material for the solar cel
a solar generator. 4,680,074, 7-14-87, Cl. 156-291.000.
Schmitz, William E., to Westinghouse Electric Corp. Integral s
parallel and power brake controller for a transit vehicle. 4,697,
9-29-87, Cl. 318-63.000.
Schmitz, Wolfgang. Appliance for partially dyeing the hair. 4,695,
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Schmodde, Hermann, to H. Stoll GmbH & Co. Cam system and me
for combined loop formation and transfer in flat-bed knitting
chines. 4,643,003, 2-17-87, Cl. 66-75.000.
Schmodde, Hermann. *See*—
Schmidt, Henning; Nedele, Walter; and Schmodde, Herm
4,713,948, Cl. 66-106.000.
Schmoede, Peter; Katrynok, Detlef, deceased (by Katrynok, C
tine, legal representative); and Ruch, Jean P., to Accumulat
werke Hoppecke Carl Zoellner & Sohn GmbH & Co. KG. Me
for making oxygen electrode for alkaline galvanic cells. 4,643,
2-17-87, Cl. 141-1.100.
Schmoelzer, Ernst, to Alfred Teves GmbH. Braking pressure co
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Schmoke, Keith E. *See*—
Haman, Frederic E.; and Schmoke, Keith E., 4,656,092, C
428-402.200.
Schmolka, Irving R., to BASF Corporation. Roll-on perfume com
tions containing polyoxybutylene-polyoxyethylene copoly
4,668,430, 5-26-87, Cl. 252-522.00R.
Schmolka, Irving R., to BASF Corporation. Mineral oil gels. 4,67
7-7-87, Cl. 424-65.000.
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Niu, Joseph H. Y.; and Schmolka, Irving R., 4,637,822, C
44-51.000.
Schmolz, Rainer. *See*—
Fischer, Peter; Schmolz, Rainer; and Wurstner, Eugen, 4,66
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Schmoock, Roy F. *See*—
Mannherz, Elmer D.; Schmoock, Roy F.; and Shauger, Herb
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Schmuck, Karl-Wilhelm. *See*—
Penza, Hans; Segler, Siegfried; Schmuck, Karl-Wilhelm; A
Dietrich; and Lindemann, Eckhard, 4,636,064, Cl. 355-75

Schmuck, Phillip W.: *See*—
Donovan, Joseph F.; Stout, Gregg W.; and Schmuck, Phillip W., 4,635,734, Cl. 175-4.600.

Schmude, Leonhard: *See*—
Kraus, Ulrich; Egle, Elmar; and Schmude, Leonhard, 4,655,308, Cl. 180-79.000.

Schmukler, Charles S., and Buon, Georges A., to Marine Moisture Control Company, Inc. Method and apparatus for determining the degree of purity of a liquid, 4,710,643, 12-1-87, Cl. 250-573.000.

Schmukler, Robert E. Retrograde coronary sinus perfusion device and method, 4,648,384, 3-10-87, Cl. 128-1.00D.

Schmutz, Bernard P., to Giovanola Freres SA, and Intamin AG. Device to retain roller coaster passengers in standing position, 4,700,632, 10-20-87, Cl. 104-63.000.

Schmutz, Friedrich: *See*—
Mierswa, Christian; and Schmutz, Friedrich, 4,691,723, Cl. 134-167.00C.

Schmutzler, Werner: *See*—
Held-Elbert, Gabriele; Kaiser, Wolfgang; and Schmutzler, Werner, 4,691,337, Cl. 379-24.000.

Schnabel, Rudolf: *See*—
Doerfler, Rudolf; Krause, Kurt; Kummetow, Gerd; Moerman, Boudewijn; Schnabel, Rudolf; Schroether, Gerhard; Voigt, Rolf; Weidner, Georg; and Zentgraf, Lothar, 4,670,812, Cl. 361-83.000.

Schnabel, Wolfram: *See*—
Daradimos, Georg; Hirsch, Martin; and Schnabel, Wolfram, 4,676,824, Cl. 75-36.000.

Schnabl, Rudolf: *See*—
Witting, Karin; Poss, Dieter; and Schnabl, Rudolf, 4,680,438, Cl. 200-268.000.

Schnable, George L.: *See*—
Dawson, Robert H.; and Schnable, George L., 4,668,973, Cl. 357-54.000.

Schnack, Peter G., to Sun-Flex Company, Inc. Cathode ray tube glare filter, radiation and static electricity suppression device, 4,661,856, 4-28-87, Cl. 358-252.000.

Schnackel, Jay F.; and Zverina, Karel. Semi-transferred arc in a liquid stabilized plasma generator and method for utilizing the same, 4,642,440, 2-10-87, Cl. 219-121.00PP.

Schnadig Corporation: *See*—
Talley, Thomas H.; and Wilson, Thomas E., 4,668,009, Cl. 297-85.000.

Schnaebele, Werner: *See*—
Diehl, Christian; Schnaebele, Werner; Allgauer, Karl-Heinz; and Kresche, Horst, 4,676,455, Cl. 244-3.130.

Schnaibel, Eberhard; and Schneider, Erich, to Robert Bosch GmbH. Test apparatus for electronic control systems, particularly automotive-type computers, 4,689,554, 8-25-87, Cl. 324-73.00R.

Schnaibel, Eberhard: *See*—
Junginger, Erich; Schnaibel, Eberhard; and Schneider, Erich, 4,638,228, Cl. 318-569.000.

Schnaper, H. William; and Aune, Thomas M. Diagnostic method of screening for immune deficiency in a nephrotic patient by determination of SIRS in the urine, 4,665,021, 5-12-87, Cl. 435-7.000.

Schnathorst, William C.: *See*—
Kado, Clarence I.; Schnathorst, William C.; and Azad, Hamid R., 4,663,162, Cl. 424-92.000.

Schneble, Edwin: *See*—
Schaible, Siegfried; and Schneble, Edwin, 4,638,623, Cl. 56-341.000.

Schnebly, John T.; Steele, Richard S.; and Colson, Wendell B., to Hunter Douglas, Inc. Method and apparatus for mounting and sealing honeycomb insulation material, 4,647,488, 3-3-87, Cl. 428-116.000.

Schnebly, John T.; Steele, Richard S.; and Colson, Wendell B., to Hunter Douglas, Inc. Method for mounting and sealing honeycomb insulation material, 4,675,060, 6-23-87, Cl. 156-65.000.

Schneckenburger, Gunter, to Pfaff Industriemaschinen GmbH. Sewing machine tape braking device, 4,649,839, 3-17-87, Cl. 112-121.260.

Schnee, Reiner; Pennewiss, Horst; and Markert, Gerhard, to Rohm GmbH. Polymer suspension containing a water-soluble polymer suspended in an oil phase, 4,640,954, 2-3-87, Cl. 524-516.000.

Schneeberger, Ruedi: *See*—
Graf, Felix; Schneeberger, Ruedi; and Symon, Georg, 4,712,746, Cl. 242-43.00R.

Schnegg, Julius; and Petracek, Vaclav, to Burlington Industries, Inc. Warp-knit, weft-inserted fabric with substrate and method and apparatus to produce same, 4,682,480, 7-28-87, Cl. 66-192.000.

Schneider, Adolf: *See*—
Barth, Heinz; Hubner, Erwin; Heynisch, Hinrich; and Schneider, Adolf, 4,653,060, Cl. 372-61.000.

Schneider, Alan A.; Stewart, David A.; Jolson, Joseph D.; Auel, Ra-eAnn M.; and Price, John F., to Mine Safety Appliances Company. Electrochemical cell for the detection of noxious gases, 4,707,242, 11-17-87, Cl. 204-412.000.

Schneider, Alfred, to Siegenia-Frank KG. Corner deflection assembly, 4,637,165, 1-20-87, Cl. 49-192.000.

Schneider, Alfred, to Siegenia-Frank KG. Corner guide assembly, 4,661,007, 4-28-87, Cl. 403-24.000.

Schneider, Alfred; and Eberhard, Joachim, to BASF Aktiengesellschaft. Cuboid container for articles and hinge and pivot-limiting means therefor, 4,706,813, 11-17-87, Cl. 206-387.000.

Schneider, Alfred: *See*—
Prestele, Erich; Schneider, Alfred; Hepperle, Willi; Katzer, Johann; Stephany, Christian; and Lopic, Franz, 4,673,307, Cl. 401-289.000.

Schneider, Arthur; Baum, Walter; and Zehl, Hermann, to Kabelmetal Electro GmbH. Cable transmission of signals, 4,686,530, 8-11-87, Cl. 340-870.310.

Schneider, Barbara; Hennig, Kurt; and Klein, Manfred, to Gebr. Hennig GmbH. Bellows, 4,638,722, 1-27-87, Cl. 92-42.000.

Schneider, Bernd; and Mueller, Stefan, to Siemens Aktiengesellschaft. Sensor for component plug-in, 4,654,964, 4-7-87, Cl. 29-705.000.

Schneider, Bernhard: *See*—
Post, Lothar; and Schneider, Bernhard, 4,683,799, Cl. 89-11.000.

Schneider, Burnett M., to Aqua-Chem Inc. Scale inhibitor, 4,713,195, 12-15-87, Cl. 252-180.000.

Schneider, Claus; Walther, Gerhard; Weber, Karl-Heinz; Bechtel, Wolf D.; and Boke-Kuhn, Karin, to Boehringer Ingelheim KG. 4-phenyl-tetrahydro-furano-pyridines and anti-depressant pharmaceutical compositions containing same, 4,636,510, 1-13-87, Cl. 514-302.000.

Schneider, Claus; Walther, Gerhard; Weber, Karl-Heinz; Bechtel, Wolf D.; and Boke-Kuhn, Karin, to Boehringer Ingelheim KG. (2-phenyl-2-4pyridyl-oxy, or -thio)-ethyl)-amines and salts thereof having anti-depressant properties, 4,666,910, 5-19-87, Cl. 514-228.000.

Schneider, Claus: *See*—
Von Benda, Klaus; and Schneider, Claus, 4,687,719, Cl. 429-214.000.
Walther, Gerhard; Schneider, Claus; Weber, Karl-Heinz; and Fugner, Armin, 4,686,219, Cl. 514-220.000.
Weber, Karl-Heinz; Schneider, Claus; Walther, Gerhard; Hinzen, Dieter; Kuhn, Franz J.; Lehr, Erich; Ensinger, Helmut; and Troger, Wolfgang, 4,670,456, Cl. 514-424.000.

Schneider, Connie J.: *See*—
Dirlikov, Stoil K.; and Schneider, Connie J., 4,709,059, Cl. 549-453.000.

Schneider, Dallas J.: *See*—
Silvernail, James M.; and Schneider, Dallas J., 4,664,133, Cl. 134-99.000.
Silvernail, James M.; and Schneider, Dallas J., 4,682,614, Cl. 134-99.000.

Schneider, David E., to Weatherford U.S., Inc. Cementing plug, 4,706,747, 11-17-87, Cl. 166-153.000.

Schneider, Delbert K. Sealed aquarium, 4,664,065, 5-12-87, Cl. 119-3.000.

Schneider, Dieter, to VDO Adolf Schindling AG. Electrothermal measurement of levels compensated for ambient temperature, 4,640,127, 2-3-87, Cl. 73-295.000.

Schneider, Eckhard: *See*—
Heitmann, Knut; Hoppe, Martin; Schneider, Eckhard; and Thaer, Andreas, 4,672,012, Cl. 430-3.000.

Schneider, Emil F.: *See*—
Puchalski, Eugene, Jr.; Schneider, Emil F.; Cobee, Judith A.; and El-Menshawy, El-Sayed, 4,690,818, Cl. 424-70.000.

Schneider, Erich: *See*—
Junginger, Erich; Schnaibel, Eberhard; and Schneider, Erich, 4,638,228, Cl. 318-569.000.
Schnaibel, Eberhard; and Schneider, Erich, 4,689,554, Cl. 324-73.00R.

Schneider, Erwin: *See*—
Bauer, Ludwig; Schneider, Erwin; Rensch, Walter; and Weinhold, Helmut, 4,702,464, Cl. 269-55.000.

Schneider, Eugene: *See*—
Kessel, Michael; Kessel, Erwin; and Schneider, Eugene, 4,688,612, Cl. 144-3.00R.
Kessel, Michael; Kessel, Erwin; and Schneider, Eugene, 4,711,281, Cl. 144-256.100.

Schneider, F. Howard: *See*—
Bear, Mark P.; and Schneider, F. Howard, 4,670,396, Cl. 435-285.000.

Schneider, Franz; Brastinger, Helmut; and Feinauer, Otto, to L. Schuler GmbH. Simulation arrangement for determining desired values for the transport of workpieces of a multistage press, 4,682,280, 7-21-87, Cl. 364-191.000.

Schneider, Frederick: *See*—
Maroney, Ralf P.; Fishkind, Gregory A.; and Schneider, Frederick, 4,638,399, Cl. 361-220.000.

Schneider, Gary W.: *See*—
Spehrley, Charles W., Jr.; Schneider, Gary W.; Lipkie, Curtis A.; and Cranston, Dean H., 4,686,581, Cl. 358-294.000.

Schneider, Georg: *See*—
Braun, Hans; and Schneider, Georg, 4,708,021, Cl. 73-861.060.

Schneider, Glenn H., to Motorola Computer Systems, Inc. Direct memory access controller supporting multiple input/output controllers and memory units, 4,688,166, 8-18-87, Cl. 364-200.000.

Schneider, Gottfried: *See*—
Wegner, Christian; Schneider, Gottfried; Lanzke, Hans-Uwe; Mayer, Wolfram; Wagner, Kuno; von Bonin, Wulf; von Gizycki, Ulrich; and Schaepel, Dietmar, 4,676,234, Cl. 128-90.000.

Schneider, Gottlieb: *See*—
Tauscher, Willy; and Schneider, Gottlieb, 4,692,030, Cl. 366-337.000.

Schneider, Gunther; and Priebisch, Artwin, to Rebhan, Horst. Squeegee head for printing of bodies by the screen printing method, 4,638,733, 1-27-87, Cl. 101-114.000.

Schneider, Hans-Dieter: *See*—
Topfl, Werner; Meyer, Willy; and Schneider, Hans-Dieter, 4,685,961, Cl. 71-92.000.

Schneider, Hans-Peter, to Siemens Aktiengesellschaft. Controlled regenerative D-C power supply, 4,670,827, 6-2-87, Cl. 363-48.000.

Schneider, Hartmut; Lebetzki, Egon; and Vogt, Wolfram, to Siemens Aktiengesellschaft. Gas burner for externally heating glass bodies. 4,645,451, 2-24-87, Cl. 431-278.000.

Schneider, Hartmut: *See—*
Weddigen, Gerd; Huber, Robert; Schmidt, Birgit; and Schneider, Hartmut, 4,639,496, Cl. 525-506.000.

Schneider, Heinz: *See—*
Bottger, Wolfgang; Schneider, Heinz; and Weingarten, Willi, 4,646,572, Cl. 73-602.000.

Schneider, Helmhold. Plastic pallet container. 4,676,373, 6-30-87, Cl. 206-386.000.

Schneider, Helmut: *See—*
Wunsch, Steffen; Zilly, Gunter; and Schneider, Helmut, 4,683,659, Cl. 30-381.000.

Schneider, Henner: *See—*
Hornburger, Detlev; Schaffert, Albrecht; and Schneider, Henner 4,634,812, Cl. 379-269.000.

Schneider, Herbert: *See—*
Hemmerdinger, Louis; and Schneider, Herbert, 4,704,258, Cl. 422-254.000.

Schneider, Horst; Zeeh, Rainer; and Neumann, Hans J., to Carl-Zeiss-Stiftung, Heidenheim/Brenz. Chucking device for interchangeable holding of probe pins in a coordinate-measuring instrument. 4,637,119, 1-20-87, Cl. 29-568.000.

Schneider, Horst; Zeeh, Rainer; and Neumann, Hans J., to Carl-Zeiss-Stiftung. Chucking device for interchangeable holding of probe pins in a coordinate-measuring instrument. 4,649,623, 3-17-87, Cl. 29-568.000.

Schneider, Horst; and Hermann, Joachim, to Messerschmitt-Bolkow-Blohm GmbH, DEX. Method and apparatus for dynamically supporting a high stress structure. 4,656,920, 4-14-87, Cl. 89-16.000.

Schneider, Horst; Schmidt, Wilhelm; and Daniels, Erwin, to Carl-Zeiss-Stiftung. Drive for a prismatic compensator. 4,673,249, 6-16-87, Cl. 350-287.000.

Schneider, Horst; Zeeh, Rainer; and Neumann, Hans J., to Carl-Zeiss-Stiftung. Measuring instrument with provision for interchangeable holding of probe pins and for their retrieval from magazine storage. 4,688,307, 8-25-87, Cl. 29-26.00A.

Schneider, Imogene: *See—*
Dame, John B.; Williams, Jackie L.; McCutchan, Thomas F.; and Schneider, Imogene, 4,707,357, Cl. 424-88.000.

Schneider, Ira H.: *See—*
Bryan, Barry L.; Druckerman, Martin; McDowell, Allen W.; Schneider, Ira H.; and Newkirk, Gary L., 4,641,262, Cl. 364-900.000.

Schneider, Jakob: *See—*
Dreckmann, Karl; Schneider, Jakob; and Theuner, Hans-Werner, 4,695,346, Cl. 156-361.000.

Schneider, James T.; and Haugse, Albert L., to Ashland Oil, Inc. Self-setting urethane adhesive paste system. 4,692,479, 9-8-87, Cl. 523-209.000.

Schneider, Joachim: *See—*
Stammann, Gunter; Kricsfalussy, Zoltan; Waldmann, Helmut; Schneider, Joachim; and Medem, Harald, 4,714,689, Cl. 502-54.000.

Schneider, John C., to Hydrochem Developments Ltd. Oxidation process for releasing metal values in which nitric acid is regenerated in situ. 4,670,051, 6-2-87, Cl. 75-101.00R.

Schneider, John D. Tube Fisherman's foot fin. 4,664,639, 5-12-87, Cl. 441-61.000.

Schneider, John M.; Piatt, Michael J.; Brown, Mark E.; and Bowers, Mark C., to Eastman Kodak Company. Ink jet filament length and stimulation amplitude assessment system. 4,638,325, 1-20-87, Cl. 346-1.100.

Schneider, John R. Method and apparatus for drying sludge using movable plates. 4,664,813, 5-12-87, Cl. 210-771.000.

Schneider, Josef A., to Ciba-Geigy Corporation. Hexahydro-(1)-benzo-(pyrano and thiopyrano) (4,3-C)pyridines, useful as serotin-2 blocking agents. 4,666,916, 5-19-87, Cl. 514-291.000.

Schneider, Josef F., to United States of America, Air Force. Charge depletion meter. 4,678,999, 7-7-87, Cl. 324-427.000.

Schneider, Karl F., to Borg-Warner Automotive, Inc. Open cellular pump filter element for homogenization of air-oil mixtures. 4,666,594, 5-19-87, Cl. 210-168.000.

Schneider, Kenneth W.: *See—*
Bull, Ronald E.; and Schneider, Kenneth W., 4,651,538, Cl. 62-398.000.

Schneider, Kirk A.: *See—*
Gronholz, Donald D.; Schneider, Kirk A.; and Scott, James R., 4,657,570, Cl. 55-385.00E.

Schneider, Klaus: *See—*
Klein, Wolfgang; and Schneider, Klaus, 4,659,473, Cl. 210-638.000.

Schneider, Laszlo. Phototechnical apparatus of vertical arrangement for continuous development of photographic materials, particularly photographic plates. 4,710,009, 12-1-87, Cl. 354-322.000.

Schneider, Linda G.: *See—*
Kessick, Michael A.; George, Zacharia M.; and Schneider, Linda G., 4,661,240, Cl. 208-127.000.

Schneider, Lutz T.: *See—*
Henne, Heinrich; Patzelt, Norbert; Schneider, Lutz T.; Knobloch, Osbert; and Muller, Manfred, 4,709,864, Cl. 241-167.000.

Schneider, Martin V.: *See—*
Gans, Michael J.; Schneider, Martin V.; and Trambarulo, Ralph F., 4,689,631, Cl. 343-781.00R.

Schneider Metal Manufacturing Co.: *See—*
Bull, Ronald E.; and Schneider, Kenneth W., 4,651,538, Cl. 62-398.000.
Hovinga, Donald G., 4,679,715, Cl. 222-517.000.

Schneider, Michael; Kochloefl, Karl; Maletz, Gerd; and Wernicke, Hans J., to Sud-Chemie Aktiengesellschaft. Catalyst for reducing the nitrogen oxide content of flue gases. 4,692,425, 9-8-87, Cl. 502-81.

Schneider, Michael: *See—*
Gademann, Lothar; Hirt, Adam; Michel, Hartmut; Schmid, H
Dieter; and Schneider, Michael, 4,694,814, Cl. 123-644.000.

Schneider, Michael D., to Hughes Aircraft Company. Device coupling microwave energy. 4,704,590, 11-3-87, Cl. 333-115.000.

Schneider, Michael P. Cleaning apparatus. 4,698,932, 10-13-87, 42-95.000.

Schneider, Michel: *See—*
de Lassat de Pressigny, Yann; and Schneider, Michel, 4,700,93
266-267.000.
Gonzalez Oliver, Carlos J. R.; De Pous, Olivier; and Schne
Michel, 4,713,338, Cl. 435-176.000.

Schneider, Norbert: *See—*
Kohl, Albert; Melzer, Milena; Lehner, August; Schneider, No
Koester, Eberhard; Balz, Werner; Sommermann, Friedrich
Ricker, Ernst, 4,668,486, Cl. 428-411.100.
Melzer, Milena; Roller, Hermann; Schneider, Norbert; Fu
Horst; and Munzner, Wulf, 4,645,723, Cl. 428-694.000.

Schneider, Ortwin; and Georgitsis, Nikolaos, to Erweka Apparat GmbH. Holding device. 4,641,534, 2-10-87, Cl. 73-856.000.

Schneider, Ortwin; and Georgitsis, Nikolaos, to Erweka Apparat GmbH. Sample handling apparatus. 4,708,023, 11-24-87, 73-863.310.

Schneider, Philip H.: *See—*
Barrett, John R.; Cemenska, Richard A.; Gladden, John R
eckel, Mark D.; and Schneider, Philip H., 4,684,32
415-702.000.

Schneider, Pierre: *See—*
Schaeffer, Norbert; Bettinger, Gunter; Goetz, Klaus; Pfeffe
Dietmar; Burkle, Ottmar; Schmidts, Kurt; Schneider,
Wagner, Werner; Wietholter, Dieter; Dietze, Herbert; and
iessen, Wilhelmus, 4,709,288, Cl. 360-130.210.

Schneider, Rainer: *See—*
Wehner, Wolfgang; Muller, Horst, deceased; and Sch
Rainer, 4,642,322, Cl. 524-191.000.

Schneider, Raymond H. Hardwood flooring system. 4,644,720,
Cl. 52-392.000.

Schneider, Reinhard. Apparatus and method for withdrawing
decomposition products from a refuse dump. 4,670,148, 6-2
210-603.000.

Schneider, Reinhard: *See—*
Kolblin, Rolf; Schneider, Reinhard; Burgdorf, Heinrich; an
Klaus, 4,675,977, Cl. 29-568.000.

Schneider, Richard: *See—*
Manzke, Klaus; Schneider, Richard; and Kohl, Lambert, 4,
Cl. 360-98.000.

Schneider, Richard T.; and Keates, Richard H., to RTS Labo Inc. Ophthalmic surgery system. 4,648,400, 3-10-87, Cl. 128-

Schneider, Robert: *See—*
Miller, Ralph; Bollini, Jakob L.; and Schneider, Robert, 4
Cl. 260-508.000.

Schneider, Robert H., to Versa Technologies, Inc. Bidirectio flow valve. 4,704,947, 11-10-87, Cl. 91-518.000.

Schneider, Roland: *See—*
Schmidt, Rolf; and Schneider, Roland, 4,712,937, Cl. 401

Schneider, Rolf: *See—*
Denzinger, Walter; Hartmann, Heinrich; Trieselt, Wolfga
che, Albert; Schneider, Rolf; and Raubenheimer, Hans
4,698,174, Cl. 252-174.240.
Oehsen, Ubbo v.; Stecher, Karlheinz; Koehler, Waldemar;
Berthold; Brunnmueller, Fritz; and Schneider, Rolf,
Cl. 423-373.000.

Schneider, Roy W.; and Harris, Mark L., to United Tec Corporation. Integral control of a dependent variable in having at least two independent variables which influence t
dent variable. 4,669,058, 5-26-87, Cl. 364-148.000.

Schneider, Roy W.: *See—*
Harner, Kermit L.; Schneider, Roy W.; and Harris,
4,653,981, Cl. 416-34.000.
Niessen, Frank R.; and Schneider, Roy W., 4,65
416-34.000.

Schneider, Rudolf; and Josserand, Joseph, to Charmilles Tec S.A. Process and mechanism for threading the electrode
EDM apparatus. 4,652,716, 3-24-87, Cl. 219-69.00M.

Schneider, Rudolf, to Erowa AG. Measuring calliper. 8-18-87, Cl. 33-172.00B.

Schneider, Rudolf T. Writing table with adjustable working adjustable footrest. 4,664,039, 5-12-87, Cl. 108-6.000.

Schneider, Samuel: *See—*
Rethwish, William F.; and Schneider, Samuel, 4,6
219-78.110.

Schneider, Siegfried: *See—*
Fikentscher, Rolf; Heimann, Sigismund; Mertens,
Schneider, Siegfried; and Vescia, Michele, 4,7
8-189.000.
Stetter, Eckart; Reichenberger, Helmut; Schneider, Si
Wirth, Axel, 4,682,108, Cl. 324-309.000.

Schneider, Stephen E.; Geller, Douglas A.; and Morrison, Richard E., to Kramco Manufacturing, Inc. Floating, reclining lounge mechanism. 4,662,852, 5-5-87, Cl. 441-132.000.

Schneider, Theodor: *See*—
Bauer, Kurt; and Schneider, Theodor. 4,692,677, Cl. 318-443.000.
Kohler, Alfred; Schneider, Theodor; and Schubert, Karl F., 4,639,065, Cl. 339-119.00R.

Schneider, Thomas C., to Velten & Pulver, Inc. Conveyor rollers with traction O-rings and conveyor including same. 4,684,011, 8-4-87, Cl. 198-779.000.

Schneider, Thomas C., to Velten & Pulver, Inc. Article unstacking system. 4,710,089, 12-1-87, Cl. 414-118.000.

Schneider, Thomas E.; Kolanowski, Clarence; and Patterson, Richard L., to Molex Incorporated. Electrical harness fabrication apparatus. 4,680,841, 7-21-87, Cl. 29-33.00M.

Schneider, Walter: *See*—
Beutler, Hans-Otto; Schutte, Ingrid; and Schneider, Walter, 4,677,059, Cl. 435-25.000.
Boden, Heinrich; and Schneider, Walter, 4,714,579, Cl. 264-328.600.
Schulte, Klaus; Nadolski, Klaus; Ersfeld, Heinrich; Ebeling, Wilfried; Boden, Heinrich; and Schneider, Walter, 4,695,166, Cl. 366-160.000.

Schneider, Wayne A.; Morse, Margaret S.; and Tjoelker, John, to Boeing Company, The. Y-slot waveguide antenna element. 4,644,343, 2-17-87, Cl. 343-767.000.

Schneider, Werner. Method and apparatus for opening and closing a taphole in furnaces. 4,637,590, 1-20-87, Cl. 266-45.000.

Schneider, Wesley. Liquid storage and delivery system for protective mask. 4,712,594, 12-15-87, Cl. 141-114.000.

Schneider, Wesley C., to Tootsie Roll Industries, Inc. Shipping container. 4,697,699, 10-6-87, Cl. 206-44.110.

Schneider, Wilhelm, to Hermann Heye. Cooling arrangement for a glass forming apparatus. 4,701,203, 10-20-87, Cl. 65-265.000.

Schneidmiller, Rodney G. Fly trap and attractant therefore. 4,638,592, 1-27-87, Cl. 43-122.000.

Schneiter, Werner, to Omega Electronics S.A. Driving arrangement for a varying color light emitting element. 4,668,895, 5-26-87, Cl. 315-158.000.

Schneitz, Carita E.: *See*—
Mikkola, Antti R.; Hakkinen, Heli-Riitta M.; Nuotio, Lasse O.; Nurmi, Esko V.; and Schneitz, Carita E., 4,657,762, Cl. 424-93.000.

Schneitz, Jarita E.: *See*—
Nurmi, Esko V.; Schneitz, Jarita E.; and Makela, Pirjo H., 4,689,226, Cl. 424-93.000.

Schnell, Axel: *See*—
Hennings, Detlev; Schnell, Axel; and Schremmacher, Herbert, 4,692,289, Cl. 264-61.000.

Schnell, Josef. Training apparatus. 4,635,933, 1-13-87, Cl. 272-129.000.

Schnell, Josef. Exercising apparatus. 4,709,920, 12-1-87, Cl. 272-117.000.

Schnell, Karl: *See*—
Stiede, Alfred, 4,644,607, Cl. 17-45.000.

Schnell, Kenneth R., to Hubbell Incorporated. Connector for non-metallic conduit. 4,711,472, 12-8-87, Cl. 285-162.000.

Schnell, Raimund. Fastening arrangement for a minimum of three struts along the spatial axes. 4,695,179, 9-22-87, Cl. 403-24.000.

Schnell, Robert J.: *See*—
Bedros, Renee; and Schnell, Robert J., 4,658,428, Cl. 382-30.000.

Schnell, William J.: *See*—
Bellotti, Marc C.; and Schnell, William J., 4,655,753, Cl. 604-281.000.
Fentress, Philip W.; Kenley, Rodney S.; and Schnell, William J., 4,707,335, Cl. 422-44.000.

Schnelle, Eberhard; and Neth, Siegmar, to Stuerlen-Macquet AG. Apparatus for moving objects or persons. 4,669,137, 6-2-87, Cl. 5-81.00R.

Schnelle, Joseph W.: *See*—
French, Daniel B.; Brookshire, Richard E.; and Schnelle, Joseph W., 4,685,067, Cl. 364-513.000.

Schneller, Arnold; Herwig, Walter; and Erbes, Kurt, to Hoechst Aktiengesellschaft. Radiation-sensitive composition and recording material based on compounds which can be split by acid. 4,678,737, 7-7-87, Cl. 430-270.000.

Schneller, Arnold; and Geissler, Ulrich, to Hoechst Aktiengesellschaft. Radiation-sensitive positive working composition and material with aqueous-alkaline soluble acryamide or methacryamide copolymer having hydroxyl or carboxyl groups. 4,699,867, 10-13-87, Cl. 430-192.000.

Schneller, Joseph W.; Kossuth, Donald A.; and Robinson, J. Stephen, to National Gypsum Company. Curtain wall panel and method. 4,646,498, 3-3-87, Cl. 52-309.120.

Schneller, Robert E.: *See*—
Aceti, John G.; and Schneller, Robert E., 4,662,053, Cl. 29-429.000.
Aceti, John G.; and Schneller, Robert E., 4,703,543, Cl. 29-33.00M.

Schnepfe, Robert W., Jr.: *See*—
Milstead, Leon R.; Lowe, Laban R.; Schnepfe, Robert W., Jr.; and Erickson, Merlin L., 4,704,967, Cl. 102-334.000.

Schnepp-Pesch, Wolfram; and Lindenberg, Josef. Biopsy cannula. 4,640,296, 2-3-87, Cl. 128-754.000.

Schnerk, Thomas G., to TRW Inc. Transmission and reception of television broadcast in high-fidelity stereo audio. 4,712,240, 12-8-87, Cl. 387-3.000.

Schnetker, Hellmut. Fuel burning stove. 4,651,709, 3-24-87, Cl. 126-77.000.

Schnettler, Richard A.; Jones, Winton D., Jr.; and Claxton, George P., to Merrell Dow Pharmaceuticals Inc. Cardiotonic heterocyclic oxazolones. 4,698,353, 10-6-87, Cl. 514-340.000.

Schnipke, Dennis E., to Premier Industrial Corporation. Adjustable and securable fluid pipe joint and nozzle coupling unit. 4,697,742, 10-6-87, Cl. 239-587.000.

Schnippering, Friedhelm; and Rodder, Karl-Martin, to Dynamit Nobel Aktiengesellschaft. Method of producing molds for the casting of metal. 4,715,895, 12-29-87, Cl. 106-38.300.

Schnittger, Robert E., Jr.: *See*—
Cohen, Philip S.; and Schnittger, Robert E., Jr., 4,685,563, Cl. 206-328.000.

Schnitz, Guenter: *See*—
Langlitz, Karlheinz; and Schnitz, Guenter, 4,700,929, Cl. 266-246.000.

Schnitzer, Emanuel; and Williams, Leonard E., Jr., to Cameron Iron Works, Inc. Gas driven anchor and launching system therefor. 4,682,559, 7-28-87, Cl. 114-295.000.

Schnitzer, Emanuel: *See*—
Bartholomew, Roy E.; Petrus, Ronald G.; Schnitzer, Emanuel; and Fisher, Edmund A., 4,646,840, Cl. 166-350.000.

Schnizlein, Melvern E., to Ford Motor Company. Engine cooling system air venting arrangement with buoyant air purge valve. 4,643,134, 2-17-87, Cl. 123-41.100.

Schnizlein, Paul G.; and Tang, Wen-Tsung F., to Advanced Micro Devices, Inc. CMOS D-type flip-flop circuits. 4,691,122, 9-1-87, Cl. 307-279.000.

Schnizler, Albrecht; Schulz, Manfred; and Bartmann, Klaus, to Metabowerke GmbH & Co. Hammer drill. 4,690,226, 9-1-87, Cl. 173-128.000.

Schnoes, Heinrich K.: *See*—
DeLuca, Hector F.; Schnoes, Heinrich K.; Sicinski, Rafal R.; and Tanaka, Yoko, 4,689,180, Cl. 260-397.200.

Schnoor, Christian; and Diehl, Wolfgang, to Dragerwerk Aktiengesellscaft. Protective helmet having nose passage closure elements. 4,667,667, 5-26-87, Cl. 128-201.180.

Schnorbach, Hans-Jurgen: *See*—
Schluter, Klemens; and Schnorbach, Hans-Jurgen, 4,659,736, Cl. 514-452.000.

Schnorrenberg, Gerd; Roos, Otto; Losel, Walter; Wiesbemann, Ingrid; Ganda, Wolfram; and Hoefke, Wolfgang, to Boehringer Ingelheim KG. 2,3,4,9-tetrahydro beta carboline derivatives, useful as antihypertensive agents. 4,683,238, 7-28-87, Cl. 514-292.000.

Schnorrenberg, Gerd: *See*—
Losel, Walter; Roos, Otto; and Schnorrenberg, Gerd, 4,694,085, Cl. 546-65.000.

Schnuelle, Kenneth W.: *See*—
Strom, Stephen A.; Schnuelle, Kenneth W.; and Potwora, William E., 4,642,607, Cl. 340-310.00A.

Schnupp, Dale L., to Schnupp's Grain Roasting, Inc. Grain roasting machine and method. 4,639,216, 1-27-87, Cl. 432-105.000.

Schnupp's Grain Roasting, Inc.: *See*—
Schnupp, Dale L., 4,639,216, Cl. 432-105.000.

Schnur, Rodney C., to Pfizer Inc. Tetracyclic spiro-hydantoin aldose reductase inhibitors and compositions. 4,656,169, 4-7-87, Cl. 514-235.000.

Schnur, Rodney C., to Pfizer Inc. Hypoglycemic 5-substituted oxazolidine 2,4-diones. 4,689,336, 8-25-87, Cl. 514-376.000.

Schnur, Rodney C., to Pfizer Inc. Hypoglycemic 5-substituted oxazolidine-2,4-diones. 4,695,634, 9-22-87, Cl. 544-300.000.

Schnurer, David M.; and Schnurer, Ellen R. Diaper dispensing and disposal unit. 4,706,845, 11-17-87, Cl. 221-102.000.

Schnurer, Ellen R.: *See*—
Schnurer, David M.; and Schnurer, Ellen R., 4,706,845, Cl. 221-102.000.

Schobel, Alexander M.; and Schumacher, Robert W., to Warner-Lambert Company. Controlled release encapsulated hypochlorite deactivator for use in denture cleansers. 4,671,972, 6-9-87, Cl. 427-213.000.

Schobel, Alexander M., to Warner-Lambert Company. Therapeutic effervescent composition. 4,687,662, 8-18-87, Cl. 424-44.000.

Schober, Karl; and Groll, Fritz, to Daimler-Benz Aktiengesellschaft. Device for sampling particles from the exhaust gases of a self-igniting internal combustion engine. 4,654,058, 3-31-87, Cl. 55-217.000.

Schober, Konrad: *See*—
Hieber, Konrad; Neppl, Franz; and Schober, Konrad, 4,680,612, Cl. 357-71.000.

Schober, Manfred, to Du Pont de Nemours, E. I., and Company. Process for the ozone protection of photopolymer flexographic printing plates by treatment with liquid polyethers. 4,680,251, 7-14-87, Cl. 430-306.000.

Schobert, Frank: *See*—
Mesun, Randy O.; and Schobert, Frank, 4,710,987, Cl. 4-420.000.

Schoch, Reinhold: *See*—
Darda, Helmut; and Schoch, Reinhold, 4,683,986, Cl. 185-39.000.

Schoch, Stephen A., to Carrier Corporation. Fiber optic moisture analysis probe. 4,637,729, 1-20-87, Cl. 356-410.000.

Schoch, Stephen A.; and Sibley, Howard W., to Carrier Corporation. Fiberoptic probe and method of making and using. 4,639,594, 1-27-87, Cl. 250-227.000.

Schock, Edward J. Support structure for paraboloid reflector. 4,639,734, 1-27-87, Cl. 343-912.000.

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Groll, Werner; Schock, Gernot; Hathaway, Doris; and Wagner, Rudolf, 4,681,735, Cl. 420-464.000.

Schock, Hans-Werner: *See*—
Hewig, Gert; Schurich, Bernd; Worner, Jorg; and Schock, Hans-Werner, 4,707,561, Cl. 136-256.000.

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Einsle, Guenter; Mayr, Ernst; Oestreich, Ulrich; Schoeber, Gernot; and Schrey, Wolfgang, 4,689,943, Cl. 57-90.000.

Schoeffler, Paul W.: *See*—
Shoeffler, David M.; and Schoeffler, Paul W., 4,708,675, Cl. 441-65.000.

Schoeffler, William N., to Petro-Design, Inc. Remote control selector valve, 4,655,289, 4-7-87, Cl. 166-320.000.

Schoeffler, William N., to Petro-Design, Inc. Angle deviation tool, 4,655,299, 4-7-87, Cl. 175-38.000.

Schoeffler, William N.: *See*—
Falgout, Thomas E., Sr.; and Schoeffler, William N., 4,715,253, Cl. 81-57.140.
Falgout, Thomas E., Sr.; and Schoeffler, William N., 4,715,453, Cl. 175-73.000.

Schoeller, Jochen: *See*—
Iniotakis, Nicolas; von der Decken, Claus-Benedict; Frohling, Werner; Schoeller, Jochen; and Grossman, Hermann, 4,655,797, Cl. 55-16.000.

Schoellhammer, Georges: *See*—
Quinart, Pierre; Schoellhammer, Georges; Tableau, Pierre; and Vivien, Francois, 4,704,773, Cl. 29-27.00C.

Schoen, Erich, to Pittway Corporation. Microprocessor operated timing controller, 4,672,232, 6-9-87, Cl. 307-140.000.

Schoen, Juergen: *See*—
Kirchner, Albert; Schoen, Juergen; and Happ, Ortwin, 4,638,204, Cl. 310-239.000.

Schoen, Klaus-Peter, to Hoechst Aktiengesellschaft. Device for the electrophotographic manufacture of printing forms, 4,660,959, 4-28-87, Cl. 355-3.00R.

Schoen, Klaus-Peter, to Hoechst Aktiengesellschaft. Decoating device, 4,708,452, 11-24-87, Cl. 354-317.000.

Schoen, Klaus-Peter: *See*—
Schmitt, Klaus; Schoen, Klaus-Peter; Riedel, Peter; Lingnau, Juergen; and Pfiefke, Engelbert, 4,684,594, Cl. 430-49.000.

Schoen, Oscar W., Jr. Saturated vapor pressure release mechanism, 4,674,074, 6-16-87, Cl. 367-172.000.

Schoen, Oscar W., Jr. Dew point hygrometer, 4,701,052, 10-20-87, Cl. 356-369.000.

Schoen, Uwe: *See*—
Heinemann, Hesning; Kehrbach, Wolfgang; Schoen, Uwe; Buschmann, Gerd; and Kuhl, Ulrich, 4,695,566, Cl. 514-234.000.

Schoen, William R.: *See*—
Parsons, William H.; Schoen, William R.; Patchett, Arthur A.; and Taniguchi, Masao, 4,715,994, Cl. 260-502.50E.

Schoenbaum, Gary L., Latanzi, Lewis A.; Hedrick, Stephen L.; and Johnson, Harold V., to Benchmark Industries Incorporated. Solder process inspection diffuser assembly, 4,695,157, 9-22-87, Cl. 356-237.000.

Schoenberg, Andrew J.; and Friedrich, Marju L., to Kollmorgen Technologies Corporation. Heat activatable adhesive for wire scribed circuits, 4,642,321, 2-10-87, Cl. 523-400.000.

Schoenberg, Andrew J.: *See*—
Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J.; Crowell, Jonathan C.; Czenczy, George; Schoenberg, Andrew J.; and Friedrich, Marju L., 4,711,026, Cl. 29-850.000.

Schoenberg, Julian H., to W. R. Grace & Co.-Cryovac Div. Multi-layer polyolefin shrink film, 4,643,943, 2-17-87, Cl. 428-339.000.

Schoendorfer, Donald W.; and McLaughlin, William F. Disposable diagnostic plasma filter dispenser, 4,670,147, 6-2-87, Cl. 210-541.000.

Schoendorfer, Donald W.; and Williamson, Warren P., IV, to Hemascience Laboratories, Inc. Pivot pin bearing for biomedical systems, 4,675,106, 6-23-87, Cl. 210-232.000.

Schoendorfer, Donald W.; and Hansen, Lee E., to Hemascience Laboratories, Inc. Plasmapheresis system and method, 4,713,176, 12-15-87, Cl. 210-645.000.

Schoene, Carl M., to GTE Products Corporation. Sealing structure for metal vapor arc discharge lamps, 4,713,580, 12-15-87, Cl. 313-624.000.

Schoenecker, David L.: *See*—
Kellett, James H.; Gaddis, Raymond W.; Fritts, Robert W.; and Schoenecker, David L., 4,693,949, Cl. 429-178.000.

Schoener, Glenn C.; Hess, Susan V.; and Potcner, Jayne E., to Amchem Products, Inc. Process and sealant compositions for sealing anodized aluminum, 4,647,347, 3-3-87, Cl. 204-37.600.

Schoenfeld, Harald, to Carl Schenck AG. Method and apparatus for balancing rotors, 4,646,570, 3-3-87, Cl. 73-462.000.

Schoengen, Anton: *See*—
Donhauser, Friedrich; Schoengen, Anton; Schroeder, Johann H.; and Porschen, Jorg, 4,707,274, Cl. 210-774.000.
Modic, Rudolf; Porschen, Jorg; Schoengen, Anton; and Wirges, Ralf, 4,642,369, Cl. 560-77.000.
Modic, Rudolf; Porschen, Jorg; Schoengen, Anton; and Wirges, Ralf, 4,642,377, Cl. 562-483.000.

Schoengold, Ronald J.: *See*—
Baker, Josefina T.; Pagano, Joseph F.; and Schoengold, Ronald J., 4,645,743, Cl. 436-66.000.
Rapkin, Myron C.; Schoengold, Ronald J.; Shockey, David R.; and Van Rysselberghe, Pierre C., 4,678,757, Cl. 436-169.000.

Schoenhard, James D., to International Technology Services, Inc. Apparatus for treatment of polymeric material, 4,660,585, 4-28-87, Cl. 134-96.000.

Schoenhard, James D., to International Technology, Inc. Oil filler funnel and cap, 4,703,867, 11-3-87, Cl. 220-85.00F.

Schoenig, Darrell A.; and Lindskog, Jon L., to D & D Enterprises, Inc. Boom assembly and components thereof, 4,671,478, 6-9-87, Cl. 248-124.000.

Schoenig, Darrell A.: *See*—
Johnson, Jeffrey M.; Lindskog, Jon L.; and Schoenig, Darrell A., 4,671,479, Cl. 248-173.000.

Schoenig, Fred C., Jr.; McLemore, David R.; Patterson, Richard G.; and Tunnell, George W., to General Electric Company. Fuel bundle assembly machine, 4,649,632, 3-17-87, Cl. 29-701.000.

Schoenig, Josef; and Schwiers, Hans-Georg, to Hochtemperatur-Reaktorbau GmbH. Process for the construction of a nuclear reactor with a reinforced concrete pressure vessel, 4,643,872, 2-17-87, Cl. 376-296.000.

Schoening, Josef; Schmiedel, Fritz; Handel, Hubert; and Hobrecker, Hans-Peter, to Hochtemperatur-Reaktorbau GmbH. Operating element charging and withdrawal in a gas cooled high temperature reactor, 4,654,189, 3-31-87, Cl. 376-265.000.

Schoening, Josef; and Elter, Claus, to Hochtemperatur-Reaktorbau GmbH. High temperature reactor with spherical fuel elements, 4,657,732, 4-14-87, Cl. 376-314.000.

Schoening, Josef; Schmiedel, Fritz; Hobrecker, Peter; and Winkenbach, Helmut, to Hochtemperatur-Reaktorbau GmbH. Nuclear power plant arranged in an underground cavity with a small high-temperature pebble bed reactor, 4,661,311, 4-28-87, Cl. 376-266.000.

Schoening, Josef; Elter, Claus; and Becker, Gerhard, to Hochtemperatur-Reaktorbau GmbH. Metal liner for the lining of the cylindrical cavity of a reinforced concrete pressure vessel, 4,661,313, 4-28-87, Cl. 376-295.000.

Schoening, Josef, to Hochtemperatur-Reaktorbau GmbH. Nuclear power installation with a high temperature pebble bed reactor, 4,664,871, 5-12-87, Cl. 376-219.000.

Schoening, Josef, to Hochtemperatur-Reaktorbau GmbH. Roof reflector for a high temperature small reactor, 4,675,155, 6-23-87, Cl. 376-458.000.

Schoening, Josef; Elter, Claus; and Rautenberg, Jurgen, to Hochtemperatur-Reaktorbau GmbH. Steam generator heated with the cooling gas of a nuclear reactor, 4,692,301, 9-8-87, Cl. 376-391.000.

Schoening, Josef; Wachholz, Winfried; and Wenchs, Ulrich, to Hochtemperatur-Reaktorbau GmbH. Low capacity nuclear reactor placed underground in the cavity of a cylindrical pressure vessel, 4,701,298, 10-20-87, Cl. 376-273.000.

Schoening, Josef; and Elter, Claus, to Hochtemperatur-Reaktorbau GmbH. Nuclear reactor plant housed in a steel pressure vessel with a gas cooled small high temperature reactor, 4,713,211, 12-15-87, Cl. 376-299.000.

Schoening, Josef: *See*—
Ehlers, Claus; and Schoening, Josef, 4,698,203, Cl. 376-343.000.
Elter, Claus; and Schoening, Josef, 4,696,790, Cl. 376-296.000.

Schoenleber, Donald W.; and Bosler, D. Mark, to Wolfcraft Technologies, Inc. Method of making two-directional pop-up, 4,657,612, 4-14-87, Cl. 156-227.000.

Schoennagel, Hans J.: *See*—
Borghard, William S.; Huang, Tracy J.; McCullen, Sharon B.; Schoennagel, Hans J.; Tsao, Ying-Yen P.; and Wong, Stephen S., 4,657,874, Cl. 502-35.004.

Schoens, Michel: *See*—
Seiger, Henri J. C.; Genot, Claude M.; Prud'Homme, Gerard C.; and Schoens, Michel, 4,678,184, Cl. 272-129.000.

Schoenthal, Galeon W.: *See*—
Slaugh, Lynn H.; and Schoenthal, Galeon W., 4,658,078, Cl. 585-512.000.
Slaugh, Lynn H.; and Schoenthal, Galeon W., 4,665,047, Cl. 502-108.000.

Schoenwald, Ronald D.; and Chien, Du-Shueng, to University of Iowa Research Foundation. Phenylephrine prodrug useful as mydriatic agent, 4,705,798, 11-10-87, Cl. 514-374.000.

Schoenwald, Ronald D.: *See*—
Barfknecht, Charles F.; and Schoenwald, Ronald D., 4,636,515, Cl. 514-363.000.

Schoenwetter, Henry, to Hanx Associates. Weighted racquet cover, 4,671,510, 6-9-87, Cl. 273-29.00A.

Schoenwetter, Randall R.; Makal, John; and Sankey, Edward L., to RTE Corporation. Installation tool, 4,715,104, 12-29-87, Cl. 29-271.000.

Schoepe, Adolf; Dufau, Oscar R.; and Siddiqui, Kabir, to Fluidmaster, Inc. Ballcock float structure, 4,703,653, 11-3-87, Cl. 73-322.500.

Schoepe, Adolf: *See*—
Dufau, Oscar R.; Siddiqui, Kabir; and Schoepe, Adolf, 4,656,676, Cl. 4-228.000.

Schoepf, Victor L., to Mobil Oil Corporation. Ocean bottom seismometer release mechanism, 4,666,338, 5-19-87, Cl. 405-191.000.

Schoepflin, Stephen L., to Genova, John Frank, a part interest. Clip joining device, 4,685,238, 8-11-87, Cl. 42-90.000.

Schoepp, Robert: *See*—
Bourrelly, Paul; Monier, Jean; Patin, Henri; Sanson, Charles; and Schoepp, Robert, 4,658,251, Cl. 340-820.170.
Bourrelly, Paul; Patin, Henri; Schoepp, Robert; and Sanson, Charles, 4,684,265, Cl. 374-43.000.

Schoeppel, Wolfgang: *See*—
Reichert, Karl-Heinz; Schoeppel, Wolfgang; Ewangelidis, Stawros; Bednarz, Jurgen; and Leute, Ulrich, 4,705,648, Cl. 252-512.000.

Schoeppy, Herbert: *See*—
Gambini, Michael R.; Martone, Ronald J.; Kearns, Donald S.; Enos, Gary W.; Franke, Rudi; and Schoeppy, Herbert, 4,645,933, Cl. 250-363.00S.

...eps, Jochen. *See*—
...Kress, Hans-Jurgen; Lindner, Christian; Moßbutzer, Leo; Peters, Horst; Ott, Karl-Heinz; and Schoeps, Jochen, 4,683,265, Cl. 525-67.000.
...eps, Knut C., to Atlas Copco Aktiebolag, Hydraulic torque impulse motor, 4,683,961, 8-4-87, Cl. 173-93.000.
...ettle, Klaus; Berger, Heinz; Dietze, Herbert; and Seitz, Joachim, to BASF Aktiengesellschaft. Improvements in plate springs for tape cassettes in particular video tape cassettes, 4,656,549, 4-7-87, Cl. 360-132.000.
...ettle, Klaus, to BASF Aktiengesellschaft. Tape cassette having a mounting for a leg spring for a reel brake spring, 4,678,140, 7-7-87, Cl. 242-199.000.
...ettle, Klaus; Schmidts, Kurt; Kamm, Eugen; and Berger, Heinz, to BASF Aktiengesellschaft. Brake and tape tensioning means for tape cassettes having flanged reels, and a tape cassette, in particular a magnetic tape cassette, including these means, 4,679,110, 7-7-87, Cl. 360-132.000.
...ettle, Klaus; Bubk, Artur; Kamm, Eugen; Berger, Heinz; and ...ner, Dieter, to BASF Aktiengesellschaft. Tape cassette, in particular a video cassette, and a pressure spring for this, 4,687,157, 8-18-87, Cl. 242-199.000.
...ettle, Klaus; Sold, Roland; Brinkmann, Uwe; and Wagner, Werner, to BASF Aktiengesellschaft. Tape cassette, in particular a magnetic tape cassette, and a support liner therefor, 4,709,290, 11-24-87, Cl. 360-132.000.
...ettley, Gerald L. Self injection appliance, 4,634,429, 1-6-87, Cl. 604-115.000.
...ffl, Rainer. *See*—
Fischer, Nikolaus H. J.; Mathey, Christoph; and Schoffl, Rainer, 4,681,017, Cl. 89-29.000.
...ffstall, Charles D. Method and apparatus for applying traction, 4,639,696, 10-20-87, Cl. 128-71.000.
...field, Brooks L., Jr. *See*—
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...field, David. *See*—
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...field, John, to U.S. Philips Corporation. Surface-propagating acoustic wave device, 4,659,955, 4-21-87, Cl. 310-313.00D.
...field, John, to U.S. Philips Corporation. Surface acoustic wave device, 4,663,554, 5-5-87, Cl. 310-313.00D.
...field, John D. *See*—
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...field, Paul S. Enclosure, 4,706,551, 11-17-87, Cl. 98-1.000.
...field, Roy A., to Shortrock Security Systems Limited. Intruder detector, 4,709,153, 11-24-87, Cl. 250-353.000.
...field, William S., to Motorola, Inc. Automatic leveling circuit for composite video signal, 4,695,886, 9-22-87, Cl. 358-176.000.
...la, Egbert. *See*—
Ammann, Herbert; Morbeck, Gerhard; and Schola, Egbert, 4,672,083, Cl. 524-86.000.
...lem, Paul. Portable steel target for pistol shooting, 4,691,925, 9-8-87, Cl. 273-407.000.
...ler, Jurgen. *See*—
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Tilgner, Leopold; Scholer, Jurgen; Sautter, Sieghart; and Vogel, Jurgen, 4,691,422, Cl. 29-149.50B.
...ler, Kenneth C., to Zenith Electronics Corporation. Self-adjusting switched mode power supply, 4,646,218, 2-24-87, Cl. 363-21.000.
...les, Gary. *See*—
Mason, Ronald F.; Scholes, Gary; and van Reijendam, Jan W., 4,701,534, Cl. 548-950.000.
...les, Ian R. *See*—
Burrowes, George R.; and Scholes, Ian R., 4,644,674, Cl. 40-27.500.
...ll, Charles H.; Hadzimihalis, Theo M.; and Hoover, Scott C., to Nelson Corporation. Thermoplastic grid melter, 4,667,850, 5-26-87, Cl. 222-23.000.
...ll, Charles H. *See*—
Boccagno, George E.; Raterman, John M.; Hadzimihalis, Theo M.; and Scholl, Charles H., 4,666,066, Cl. 222-146.500.
...ll, David R.; and Jollick, Joseph D., to Diagnostic Research Limited Partnership. Methods for the in vitro detection and identification of unknown pathogens or genetic entities, 4,652,517, 3-24-87, Cl. 435-5.000.
...ll, Hans, to Kochs Adler AG. Device at a sewing machine for applying a tensile stress in a material to be fed in a sewing process, 4,662,294, 5-5-87, Cl. 112-305.000.
...ll, Hans; Thiele, Horst; and Hagemann, Eckhard, to Kochs Adler AG. Sewing machine, 4,696,242, 9-29-87, Cl. 112-121.140.
...ll, Hans. *See*—
Seelmann, Werner; Scholl, Hans; and Raupach, Gunter, 4,658,752, Cl. 112-262.100.
...ll, Hans-Joachim, to Bayer Aktiengesellschaft. 2,5-di-(4'-cyanatobutyl)-3,6-dimethylpyrazine and a process for its production, 4,665,178, 5-12-87, Cl. 544-336.000.
...ll, Herbert, to EMAG Maschinenfabrik GmbH. Part handling device, 4,647,268, 3-3-87, Cl. 414-416.000.
...ll, Herbert; and Brockmuller, Uwe, to SKF GmbH. Radial roller bearing, 4,699,529, 10-13-87, Cl. 384-560.000.
...ll, Herbert; and Brockmuller, Uwe, to SKF GmbH. Sealing rolling bearing, 4,702,626, 10-27-87, Cl. 384-477.000.
Scholl, Inc. *See*—
Gudas, Charles J., 4,677,766, Cl. 36-43.000.
Wildman, Gary C.; Wirth, Frank; and Surpuriya, Vijay, 4,642,912, Cl. 36-44.000.
Scholl, Richard A., to Varian Associates, Inc. Thermocouple vacuum gauge, 4,633,717, 1-6-87, Cl. 73-755.000.
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Scholler, Siegfried. Spiral staircase arrangement, 4,660,335, 4-28-87, Cl. 52-187.000.
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Schollhamer, George K. *See*—
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Meissner, Werner; and Schollhammer, Richard, 4,656,822, Cl. 57-81.000.
Nickolay, Helmut; Hack, Kurt; Lattner, Manfred; Meissner, Werner; and Schollhammer, Richard, 4,676,056, Cl. 57-81.000.
Schollhorn, Karl, to BBC Brown, Boveri & Company, Limited. Rotor of an electrical machine having a directly cooled rotor winding, 4,634,910, 1-6-87, Cl. 310-214.000.
Schollmeier, Gero H. J.; and Sailer, Heinrich, to Siemens Aktiengesellschaft. Method and circuit arrangement for the compensation of echo signals, 4,695,998, 9-22-87, Cl. 370-32.100.
Scholten, Gerard J.; Beurskens, Theodorus J. G.; and Videc, Mathias F., to U.S. Philips Corporation. Method of and device for sensing the presence or absence of an article at the end of a vacuum pick-up means, 4,683,654, 8-4-87, Cl. 29-832.000.
Scholten, Gerard J.; Diehl, Jan, Louis F. A.; and Blankers, Johannes M. M., to U.S. Philips Corporation. Tape packing for electrical or electronic components, 4,712,675, 12-15-87, Cl. 206-332.000.
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Scholz, Donald T.; and Antoine, Augustine, to Scholz Research & Development, Electronic audio system, 4,683,589, 7-28-87, Cl. 381-61.000.
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Scholz, Fred. De-packaging apparatus, 4,653,973, 3-31-87, Cl. 414-412.000.
Scholz, Frederick J., to Amitec, Inc. Miniature radio transceiver antenna, 4,644,366, 2-17-87, Cl. 343-895.000.
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Scholz, Helmut, to Daimler-Benz Aktiengesellschaft. Spring-loaded parking brake and service-brake system for trailers, 4,697,852, 10-6-87, Cl. 303-7.000.
Scholz, Helmut, to Daimler-Benz Aktiengesellschaft. Pressure-medium braking system for vehicles, 4,697,853, 10-6-87, Cl. 303-7.000.
Scholz, Joachim. Electric valve, 4,699,167, 10-13-87, Cl. 137-116.500.
Scholz, John A., to GTE Products Corporation. Glow discharge starter and arc discharge lamp containing same, 4,686,421, 8-11-87, Cl. 315-73.000.
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Scholz, Matthew T.; Bartizal, Dennis C.; Reed, Katherine E.; Larson, Wayne K.; Ersfeld, Dean A.; Sandvig, Timothy C.; and Buckanin, Richard S., to Minnesota Mining and Manufacturing Company. Curable resin coated sheet having reduced tack, 4,667,661, 5-26-87, Cl. 128-90.000.
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Scholz, Donald T.; and Antoine, Augustine, 4,683,589, Cl. 381-61.000.
Scholz, Stefan: *See*—
Lindstadt, Klaus; Halsstg, Andreas; Maier, Dietmar; and Scholz, Stefan, 4,712,480, Cl. 102-427.000.
Scholz, Tim K.: *See*—
Peers, John; Scholz, Tim K.; and Shaw, Murray, 4,689,022, Cl. 434-307.000.
Scholz, Werner, to Telefunken Fernseh und Rundfunk GmbH. Playback device for a digital signal recorded by a plurality of heads. 4,636,875, 1-13-87, Cl. 360-26.000.
Scholz, Werner, to Telefunken Fernseh und Rundfunk GmbH. Phase control circuit. 4,639,687, 1-27-87, Cl. 331-1.00A.
Scholz, Wolfgang; Gzik, Herbert; Scholz, Hans J.; and Flaig, Hubert, to Fraunhofer-Gesellschaft zur Forderung der angewandten Forschung e.V. Apparatus for automatic changing of welding torches in an industrial robot welding system. 4,645,901, 2-24-87, Cl. 219-125.100.
Schomann, Klaus D.: *See*—
Balz, Werner; Muenzner, Wulf; Schomann, Klaus D.; Berger, Heinz; and Roos, Roland, 4,712,148, Cl. 360-132.000.
Werner, Arend; Hibst, Hartmut; and Schomann, Klaus D., 4,670,332, Cl. 428-323.000.
Schomblond, Jacques, to Cartier Industrie. Injection molds for the manufacture of composite bodies. 4,682,943, 7-28-87, Cl. 425-130.000.
Schomblond, Jacques, to Cartier Industrie. Injection molds for the manufacture of composite bodies. 4,708,614, 11-24-87, Cl. 425-120.000.
Schomblond, Jacques, to Cartier Industrie. Injection molds intended for the production of composite bodies such as multicolored light covers or components made of several different materials. 4,711,621, 12-8-87, Cl. 425-120.000.
Schomers, Josef; Erbele, Kurt; and Bonk, Wernfried, to ANT Nachrichtentechnik GmbH. Assembly system for communications device having plug-in circuit boards connected in multiple stages. 4,679,121, 7-7-87, Cl. 361-413.000.
Schomotolocha, Stephen N.: *See*—
Pederson, Robert J.; Gallagher, Lawrence J.; Miller, Jack V.; Althaus, Lauren B.; Rubinstein, Benjamin; and Schomotolocha, Stephen N., 4,664,631, Cl. 434-16.000.
Schon & Cet, GmbH: *See*—
Jung, Klaus, 4,708,042, Cl. 83-112.000.
Schon, Detlef: *See*—
Bringmann, Udo; Drews, Klaus; and Schon, Detlef, 4,715,319, Cl. 118-723.000.
Schon, Detlef G.: *See*—
Bringmann, Udo; Drews, Klaus; and Schon, Detlef G., 4,673,588, Cl. 427-41.000.
Schon, Georg: *See*—
Batzill, Wolfgang; Dobbelstein, Arnold; Geist, Michael; Schon, Georg; and Ott, Gunther, 4,661,541, Cl. 523-414.000.
Batzill, Wolfgang; Dobbelstein, Arnold; Geist, Michael; Schon, Georg; and Ott, Gunther, 4,707,232, Cl. 204-181.700.
Schonafinger, Karl; Bohn, Helmut; Martorana, Piero; and Nitz, Rolf-Eberhard, to Cassella Aktiengesellschaft. Dihydro-2,6-dimethyl pyridines, formulations and method of use for treating angina pectoris, high blood pressure or disturbances of cerebral or peripheral blood flow. 4,681,891, 7-21-87, Cl. 514-340.000.
Schonamsgruber, Hermann: *See*—
Schemmel, Hans R.; and Schonamsgruber, Hermann, 4,634,983, Cl. 328-28.000.
Schonbach, Bernard H., to Fuller Company. Apparatus for exerting a downward force on a grinding roller. 4,694,997, 9-22-87, Cl. 241-117.000.
Schonbachler, Max; and Saur, Wolfgang, to Gurit-Essex AG. Chemically hardening two-component materials based on polyurethanes, method of production and use. 4,672,100, 6-9-87, Cl. 528-75.000.
Schonbaum, Gregory R., to St. Jude Children's Research Hospital. Method for alleviating cisplatin-induced nephrotoxicity and dithiocarbamate compounds for effecting same. 4,645,661, 2-24-87, Cl. 424-10.000.
Schonberger, Hans: *See*—
Focke, Heinz; and Schonberger, Hans, 4,636,186, Cl. 493-142.000.
Schoneberger, Joachim: *See*—
Welschof, Hans-Heinrich; and Schoneberger, Joachim, 4,690,047, Cl. 464-145.000.
Schonemann, Joachim, to Walzen Irle GmbH. Fluid-medium-heated calender roll. 4,658,486, 4-21-87, Cl. 29-123.000.
Schonemann, Joachim, to Walzen-Irle GmbH. Heatable calender roller. 4,683,628, 8-4-87, Cl. 29-116.00R.
Schonenberger, Guido: *See*—
Mader, Karl; Schonenberger, Guido; and Buzzi, Carlo A., 4,711,375, Cl. 222-135.000.
Schonenberger, Helmut: *See*—
Brunner, Henri; Schonenberger, Helmut; Schmidt, Manfred; Holzinger, Ulrich; Unger, Gerfried; and Engel, Jurgen, 4,704,464, Cl. 556-137.000.
von Angerer, Erwin; and Schonenberger, Helmut, 4,661,511, Cl. 514-415.000.
Schonenberger, Rolf, to Veit GmbH & Co. Transport means with a foldable suspension carrier. 4,704,969, 11-10-87, Cl. 105-148.000.
Schoner, Gerhard: *See*—
Salour, Michael M.; Schoner, Gerhard; Bechtel, James H.; and Kull, Martin, 4,703,175, Cl. 250-227.000.
Schoneweiss, Klaus: *See*—
Hofling, Peter; and Schoneweiss, Klaus, 4,645,059, Cl. 198-321.000.
Schonfeld, Edward; and McGinnity, James W., to Johnson & Johnson Products, Inc. Color stabilized hydrogel dressing and process. 4,646,730, 3-3-87, Cl. 728-156.000.
Schonfeld, Joachim; Lapp, Hans-Gunter; and Greiner, Gabriele, to Lindemann Maschinenfabrik GmbH. Crushing machine with a removable outlet grate. 4,706,898, 11-17-87, Cl. 241-73.000.
Schonfelder, Lothar: *See*—
Franz, Gerhard; Schonfelder, Lothar; and Heine, Heinrich, 4,676,838, Cl. 106-304.000.
Schonfelder, Manfred: *See*—
Pedain, Josef; Konig, Klaus; and Schonfelder, Manfred, 4,656,243, Cl. 528-302.000.
Pedain, Josef; Konig, Klaus; and Schonfelder, Manfred, 4,692,384, Cl. 428-423.300.
Schonhausen, Horst, Process for the preparation and application in situ of blends of structural material. 4,708,745, 11-24-87, Cl. 106-85.00.
Schonherr, Andreas, to Siemens Aktiengesellschaft. Method and apparatus for operating a load supplied via an intermediate link converter, especially an asynchronous machine, in the event of a network disturbance. 4,642,546, 2-10-87, Cl. 318-798.000.
Schonherr, Dietrich W.: *See*—
Hartmann, Achim; and Schonherr, Dietrich W., 4,633,935, Cl. 165-1.000.
Schonherr, Erich: *See*—
Betz, Thomas; von Schnering, Hans-Georg; and Schonherr, Erich, 4,692,203, Cl. 156-610.000.
Schonich, Helmut: *See*—
Klusowski, Hans-Jurgen; and Schonich, Helmut, 4,643,438, Cl. 277-81.00P.
Schonlau, Juergen: *See*—
Seibert, Wolfram; Ocvirk, Norbert; and Schonlau, Juergen, 4,708,404, Cl. 303-114.000.
Schonstedt Instrument Company: *See*—
Rippingale, John B., 4,639,674, Cl. 324-326.000.
Schonwald, Siegfried; Schmid, Norbert; and Trojahn, Hans-Georg, to Siemens Aktiengesellschaft. Vacuum generating apparatus including liquid ring pump, pre-separator, two heat exchangers and fine separator. 4,657,487, 4-14-87, Cl. 417-68.000.
Schonwitz, Hans-Peter: *See*—
Vogt, Manfred; Schonwitz, Hans-Peter; and Dassbach, Walter, 4,652,422, Cl. 376-272.000.
Schoofs, Franciscus A. C. M., to U.S. Philips Corporation. Field effect semiconductor device having improved voltage breakdown characteristics. 4,642,674, 2-10-87, Cl. 357-23.800.
Schoofs, Franciscus A. C. M.; Bierhoff, Martinus P. M.; Van Mil, Joh F. P.; and Slomp, Albert H., to U.S. Philips Corporation. Signal level detector for compact disc player. 4,689,501, 8-25-87, Cl. 307-362.00.
Schoofs, Franciscus A. C. M.; Bierhoff, Martinus P. M.; Van Mil, Joh F. P.; and Slomp, Albert H., to U.S. Philips Corporation. Digital/analog converter having a switchable reference current. 4,712,091, 12-8-87, Cl. 340-347.0DA.
Schoofs, Franciscus A. C. M.: *See*—
Bierhoff, Martinus P. M.; van Mil, Joh F. P.; Schoofs, Franciscus A. C. M.; and Slomp, Albert H., 4,663,749, Cl. 369-44.000.
Schoofs Incorporated: *See*—
Schoofs, Richard J., 4,674,243, Cl. 52-172.000.
Schoofs, Richard J., to Schoofs Incorporated. Insulating glass unit and spacer bar therefor. 4,674,243, 6-23-87, Cl. 52-172.000.
Schoolcraft, Joe G.: *See*—
Cheek, Thomas L.; and Schoolcraft, Joe G., 4,658,933, Cl. 187-8.670.
Schoolman, Arnold. Stereoscopic endoscope arrangement. 4,651,201, 3-17-87, Cl. 358-98.000.
Schoolman, Arnold. Stereo laser disc viewing system. 4,706,117, 11-10-87, Cl. 358-88.000.
Schoon, David J., to Minnesota Mining and Manufacturing Company. Ram clock switching circuitry for a laser beam printer. 4,683,551, 7-28-87, Cl. 364-900.000.
Schoon, David J., to Printware, Inc. Self-resonant scanner biasing system. 4,686,363, 8-11-87, Cl. 250-235.000.
Schoonen, Adelbert J. M.: *See*—
De Haan, Pieter; Lerk, Coenraad F.; and Schoonen, Adelbert J. M., 4,708,874, Cl. 424-470.000.
Schoop, Gunther-Dietmar; Roling, Franz; Grundken, Dieter; Redder, Manfred; Schewinski, Hartmut; and Temme, Helmut, to Gewerkschaft Eisenhutte Westfalia. Channel sections of scraper-chain conveyors. 4,667,811, 5-26-87, Cl. 198-735.000.
Schoop, Gunther-Dietmar: *See*—
Grundken, Dieter; Redder, Manfred; Roling, Franz; Sauer, Michael; and Schoop, Gunther-Dietmar, 4,658,952, Cl. 198-735.000.
Schoots, Peter J., to Kendall Company, The. Dressing. 4,704,113, 11-3-87, Cl. 604-379.000.
Schopf, Eckhart: *See*—
Roemer, Erich; Schopf, Eckhart; and Cezanne, Gunter, 4,693,617, Cl. 384-282.000.
Schopfer, Pierre-Andre; Richard, Francis, deceased, by Richard Ofelia, legal representative; and by Ducommun, Michele, legal representative. Device for moving workpieces by means of electromagnetic oscillations. 4,658,953, 4-21-87, Cl. 198-757.000.
Schophoff, Friedrich: *See*—
Papenfuhs, Theodor; and Schophoff, Friedrich, 4,686,301, Cl. 549-427.000.
Reh, Kuno; and Schophoff, Friedrich, 4,695,656, Cl. 568-587.000.
Schoppenhorst, James D.: *See*—
Champlin, Keith S.; Preimesberger, Ernest C.; and Schoppenhorst, James D., 4,665,518, Cl. 370-89.000.

Schopper, Bernd; and Tandler, Peter, to Alfred Teves GmbH. Process and apparatus for brake pressure control. 4,639,048, 1-27-87, Cl. 303-22.00R.
Schopper, Bernd, to Alfred Teves GmbH. Braking pressure control unit for a dual-circuit vehicle brake system actuatable by pressure fluid. 4,659,151, 4-21-87, Cl. 303-6.00C.
Schora, Frank C.: *See*—
Janka, John C.; Schora, Frank C.; and Knowlton, Ted M., 4,701,266, Cl. 210-803.000.
Schorfheide, James J., to Exxon Research and Engineering Company. Removal of sulfur from process streams. 4,690,806, 9-1-87, Cl. 423-230.000.
Schorlemmer, Hans-Ulrich: *See*—
Dickneite, Gerhard; Schorlemmer, Hans-Ulrich; and Sedlacek, Hans-Harald, 4,699,912, Cl. 514-283.000.
Limbert, Michael; Durckheimer, Walter; Schorlemmer, Hans-Ulrich; and Dickneite, Gerhard, 4,701,452, Cl. 514-206.000.
Schorling, Stefan H. G.: *See*—
Andersson, Lars G. R.; and Schorling, Stefan H. G., 4,682,894, Cl. 384-41.000.
Schorman, Eric R.: *See*—
Burke, Timothy M.; Smith, Paul F.; and Schorman, Eric R., 4,637,022, Cl. 371-37.000.
Burke, Timothy M.; Shirley, Thomas F., Jr.; Schorman, Eric R.; and Goldsmith, Eric S., 4,677,656, Cl. 379-63.000.
Smith, Paul F.; Schorman, Eric R.; and Burke, Timothy M., 4,684,941, Cl. 340-825.520.
Schorn, Franz: *See*—
Finkbeiner, Werner; and Schorn, Franz, 4,637,552, Cl. 239-428.500.
Schornick, Gunnar; Elzer, Albert; and Hofmann, Reiner, to BASF Aktiengesellschaft. Crosslinkable resin, photosensitive recording material based on this crosslinkable resin, and production of a lithographic printing plate using this photosensitive recording material. 4,714,751, 12-22-87, Cl. 528-103.000.
Schornick, Gunnar: *See*—
Lehner, August; Heil, Guenter; Lenz, Werner; Balz, Werner; Kohl, Albert; and Schornick, Gunnar, 4,673,591, Cl. 427-48.000.
Schorr, H. Peter; Fontana, Jack J.; and Stemberg, Meyer, to Brooklyn Union Gas Company, The. Insulating polymer concrete. 4,689,358, 8-25-87, Cl. 523-209.000.
Schorr, Manfred; and Schmitt, Wilfried, to Hoechst Aktiengesellschaft. Process for the preparation of 1-substituted aza-cycloalkan-2-ones. 4,692,523, 9-8-87, Cl. 540-533.000.
Schorsch, James F.: *See*—
Koetje, Edward L.; Simpson, Frederick H.; and Schorsch, James F., 4,677,443, Cl. 343-872.000.
Schorsch, Ulrich: *See*—
Streuff, Bernhard; Mathes, Detlef; Schade, Bernd; and Schorsch, Ulrich, 4,675,182, Cl. 424-80.000.
Schossow, Stephen R.: *See*—
Foxworthy, Neal E.; Clark, William S., Jr.; Schossow, Stephen R.; and Gabbay, Robert J., 4,672,613, Cl. 371-38.000.
Schott, Claire: *See*—
Stambach, Jean-Francois; Jung, Louis; Heitz, Christiane; Schott, Claire; Stoclet, Jean-Claude; and Schutz, Fabienne, 4,645,772, Cl. 514-280.000.
Schott Gerate GmbH: *See*—
Huebner, Horst; Tauber, Guenter; Hofbauer, Peter; Glatzer, Roland; Beintze, Guenther; Wagner, Dieter; and Riege, Guenter, 4,685,328, Cl. 73-55.000.
Schott Glaswerke: *See*—
Dolch, Helmut; Arfsten, Nanning J.; Schmidt, Helmut; Philipp, Gottfried; and Tuenker, Gerhard, 4,715,999, Cl. 264-1.100.
Gliemeroth, Georg; Ross, Ludwig; Eichhorn, Uwe; Hoelzel, Eva G.; and Speit, Burkhard, 4,686,196, Cl. 501-13.000.
Krolla, Hans-Georg; Winkler-Trudewig, Magdalena; and Schumann, Werner, 4,704,371, Cl. 501-40.000.
Mennemann, Karl; and Grabowski geb. Marszalek, Danuta, 4,642,297, Cl. 501-78.000.
Neuroth, Norbert, 4,641,187, Cl. 358-106.000.
Neuroth, Norbert, 4,644,716, Cl. 52-173.00R.
Schulze, Hans-Wilhelm, 4,685,950, Cl. 65-106.000.
Schott, Hans; and Royce, Alan E., to Research Corporation. Emulsion-based gel and process for preparing same. 4,690,775, 9-1-87, Cl. 252-312.000.
Schott, Heinrich, to Siemens Aktiengesellschaft. Signalling circuit. 4,712,056, 12-8-87, Cl. 323-315.000.
Schott, Karl-Heinz: *See*—
Wagner, Wolfram; Nyssen, Peter R.; Espanion, Gunter; Beckenhaus, Dirk; Haladuda, Gunter; van Pey, Hans-Theo; and Schott, Karl-Heinz, 4,676,815, Cl. 65-16.000.
Schott, Lawrence A.: *See*—
Schott, Roger A.; and Schott, Lawrence A., 4,716,502, Cl. 362-72.000.
Schott, Martin: *See*—
Rieck, Hans-Peter; Schott, Martin; and Rossow, Jurgen, 4,703,029, Cl. 502-243.000.
Schott, Roger A.; and Schott, Lawrence A., to Freedom Industries, Inc. Hand-bar safety light. 4,716,502, 12-29-87, Cl. 362-72.000.
Schott, Wilhelm, to Jean Walterscheid GmbH. Bearing ring for drive assembly having wide angle joint and protective funnel. 4,655,614, 4-7-87, Cl. 384-220.000.
Schottle, Peter: *See*—
Burger, Kurt; Friedrich, Heinz; Molkner, Thomas; and Schottle, Peter, 4,708,769, Cl. 156-659.100.
Schottler, Henry. Variable speed frictional drive transmissions. 4,667,525, 5-26-87, Cl. 74-198.000.
Schottli, Theodore: *See*—
Dromigny, Pierre; and Schottli, Theodore, 4,686,076, Cl. 264-268.000.
Dromigny, Pierre; and Schottli, Theodore, 4,710,116, Cl. 425-125.000.
Schou, Carl E. Self-locking differential with hexagonal drive rod. 4,640,143, 2-3-87, Cl. 74-650.000.
Schoug-Pettersen, Tor: *See*—
Bekkadal, Fritz; and Schoug-Pettersen, Tor, 4,661,817, Cl. 342-124.000.
Schouhamer Immink, Kornelis A., to U.S. Philips Corporation. Method of encoding a stream of data bits, arrangement for performing the method and arrangement for decoding the stream of channel bits obtained in accordance with this method. 4,641,128, 2-3-87, Cl. 340-347.0DD.
Schouhamer Immink, Kornelis A.; Aarts, Ronaldus M.; and Kahlman, Josephus A. H. M., to U.S. Philips Corporation. Color video system with digital audio pulse width modulation. 4,660,097, 4-21-87, Cl. 358-310.000.
Schoukens, Albert F. S.: *See*—
Barcza, Nicholas A.; and Schoukens, Albert F. S., 4,699,653, Cl. 75-10.190.
Schourup, William E.: *See*—
Studer, Robert L.; and Schourup, William E., 4,691,726, Cl. 137-15.000.
Schowiak, Duane C.: *See*—
Otterstetter, Charles H.; Schowiak, Duane C.; and Stueckle, Paul, 4,714,179, Cl. 222-148.000.
Schrack Elektronik - Aktiengesellschaft: *See*—
Brandstatter, Wolfgand, 4,665,475, Cl. 363-56.000.
Schrader, Bernhard. Sample arrangement for spectrometry, method for the measurement of luminescence and scattering and application of the sample arrangement. 4,714,345, 12-22-87, Cl. 356-246.000.
Schrader, Dieter: *See*—
Hoeffkes, Horst; and Schrader, Dieter, 4,698,065, Cl. 8-406.000.
Schrader, Elliott G., to Texas Instruments Incorporated. Ripple and droop reduction circuit. 4,682,369, 7-21-87, Cl. 455-127.000.
Schrader, Heinolf: *See*—
Schroeder, Guenter; Dudek, Guenther; and Schrader, Heinolf, 4,673,814, Cl. 250-506.100.
Schrader, Jennifer R.; and Geisen, Harry. Harness for restraining a child. 4,702,523, 10-27-87, Cl. 297-485.000.
Schrader, Karl-Heinz: *See*—
Orth, Winfried; Schrader, Karl-Heinz; and Fickert, Werner, 4,661,115, Cl. 8-409.000.
Schrader, Karlheinz: *See*—
Weber, Gerhard; and Schrader, Karlheinz, 4,703,041, Cl. 514-23.000.
Schrader, Margarete, to Frankonia Kinderausstattungen GmbH & Co. KG. Safety seat for the conveyance of babies and very small children in vehicles. 4,707,024, 11-17-87, Cl. 297-250.000.
Schrader, Rolf; and Schroeer, Ulrich, to Schering Aktiengesellschaft. Alkali metal dialkylaluminum dihydrides and solutions thereof in aromatic hydrocarbons. 4,698,437, 10-6-87, Cl. 556-171.000.
Schrader, Ulrich: *See*—
Ranke, Gerhard; and Schrader, Ulrich, 4,690,812, Cl. 423-359.000.
Schrader, W. Charles, to Tru-Brew. Coffee maker improvement for measured charges from bottled water. 4,655,123, 4-7-87, Cl. 99-279.000.
Schradin, Fred. Method and apparatus for suppressing interference in a signal, in particular an audio signal. 4,637,050, 1-13-87, Cl. 381-94.000.
Schraeder, John A.; Boehler, William M.; and Kester, Philip C., to Deere & Company. Straw chopper mounting for a combine. 4,669,489, 6-2-87, Cl. 130-27.00R.
Schraff, Raymond J.; Miller, Thomas M.; and Labas, Nicholas, to Eltech Systems Corporation. Readily repairable and lightweight cover for a heated vessel. 4,640,202, 2-3-87, Cl. 110-336.000.
Schram, Cornelius J., to Internationale Octrooi Maatschappij "Octropa" BV. Particle separation. 4,673,512, 6-16-87, Cl. 210-748.000.
Schram, David N.: *See*—
Nobel, Fred I.; and Schram, David N., 4,640,746, Cl. 204-15.000.
Nobel, Fred I.; and Schram, David N., 4,651,670, Cl. 204-44.400.
Schram, Harlan L.; and O'Neil, Gerald L., to Wolverine World Wide, Inc. Hog splitter. 4,706,335, 11-17-87, Cl. 17-23.000.
Schram, John M.: *See*—
Oboler, Leonard; and Schram, John M., 4,674,242, Cl. 52-91.000.
Schramm, Charles H. Non-alkaline, foamable bathroom cleaner. 4,692,276, 9-8-87, Cl. 252-545.000.
Schramm, Dale E., to J. M. Huber Corporation. Perforated reactor tube for a fluid wall reactor and method of forming a fluid wall. 4,641,590, 2-17-87, Cl. 423-659.000.
Schramm, Dale E., to J. M. Huber Corporation. Perforated reactor tube and method for forming a fluid wall in a reactor. 4,671,944, 6-9-87, Cl. 423-659.000.
Schramm, Dale E.; and Scott, Oscar T., IV, to J. M. Huber Corporation. Reactor feed tube adjustable mounting assembly and method. 4,675,164, 6-23-87, Cl. 422-145.000.
Schramm, David A., to Standard Systems Corporation. Artificial intelligence system. 4,670,848, 6-2-87, Cl. 364-513.000.
Schramm, Laurier L., to Alberta Energy Company Ltd.; Canadian Occidental Petroleum Ltd.; Esso Resources Canada Limited; Gulf Canada Limited; Canada, Her Majesty the Queen in right of the Province of Alberta, as represented by the Minister of Energy and Natural Resources; HBOG-Oil Sands Limited Partnership; Pan-

Canadian Petroleum Limited; and Petro-Canada Inc., a part interest. Use of a submersible viscometer in the primary separation step of the hot water process for recovery of bitumen from tar sand. 4,637,417, 1-20-87, Cl. 137-4.000.

Schramm, Matthias: *See*—
Franckowiak, Gerhard; Bechem, Martin; Gross, Rainer; Kayser, Michael; Schramm, Matthias; and Thomas, Gunter, 4,710,501, Cl. 514-256.000.
Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,642,310, Cl. 514-301.000.
Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,668,691, Cl. 514-337.000.
Gorlitzer, Klaus; Bartke, Ulrich; Goldmann, Siegfried; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,647,568, Cl. 514-302.000.
Meyer, Horst; Franckowiak, Gerhard; Rosentreter, Ulrich; Gross, Rainer; Thomas, Gunter; Schramm, Matthias; Kayser, Michael; Seuter, Friedel; Perzborn, Elisabeth; and Bechem, Martin, 4,707,479, Cl. 514-222.000.
Stoltefuss, Jurgen; Heiker, Fred R.; Franckowiak, Gerhard; Schramm, Matthias; Thomas, Gunter; and Gross, Rainer, 4,645,775, Cl. 514-352.000.

Schramm, Peter: *See*—
Dorn, Alfred; Schramm, Peter; Schuhmann, Siegfried; and Zingher, Oded, 4,648,048, Cl. 364-526.000.
Kramp, Jurgen; Schramm, Peter; Augsberg, Gerhard; and Steiner, Gerd, 4,660,470, Cl. 101-426.000.

Schramm, William G. Paper perforating device. 4,669,191, 6-2-87, Cl. 30-358.000.

Schramme, Karin; and Bohler, Theresia. Device for coupling carriers, such as shopping carriers and luggage carriers. 4,645,057, 2-24-87, Cl. 194-246.000.

Schrankel, Kenneth R.: *See*—
Wilson, Richard A.; Butler, Jerry F.; Withycombe, Donald; Mookherjee, Braja D.; Katz, Ira; and Schrankel, Kenneth R., 4,693,890, Cl. 424-78.000.
Wilson, Richard A.; Butler, Jerry F.; Withycombe, Donald; Mookherjee, Braja D.; Katz, Ira; and Schrankel, Kenneth R., 4,696,676, Cl. 44-7.500.

Schrantz, Gregory A., to Harris Corporation. Technique for increasing gate-drain breakdown voltage of ion-implanted JFET. 4,683,485, 7-28-87, Cl. 357-22.000.

Schranz, Hans, to U.S. Philips Corporation. Control connection for a dictating machine. 4,660,188, 4-21-87, Cl. 369-25.000.

Schranz, Karl-Wilhelm; Schenk, Gunther; and Ohlschlager, Hans, to Agfa Gevaert Aktiengesellschaft. Color photographic recording material developable by heat treatment. 4,689,286, 8-25-87, Cl. 430-138.000.

Schrauder, Franz: *See*—
Schurr, Alexander; and Schrauder, Franz, 4,648,184, Cl. 33-18.100.

Schraut, Alfred; and Weissenberger, Helmuth, to Fichtel & Sachs Ag. Clutch disk unit for a motor vehicle clutch. 4,651,857, 3-24-87, Cl. 192-70.180.

Schreck, Carl E.: *See*—
McGovern, Terrence P.; Schreck, Carl E.; and Burden, George S., 4,675,342, Cl. 514-613.000.

Schreckenberg, Klaus, to Thyssen Industrie AG. Apparatus for clearing light land mines. 4,667,564, 5-26-87, Cl. 89-1.130.

Schreder, Felix, to E.G.O. Elektro Gerate Blanc u. Fischer. Electric cooker. 4,695,708, 9-22-87, Cl. 219-486.000.

Schreder, Felix, to E.G.O. Elektro Gerate Blanc u. Fischer. Electric cooker heating unit. 4,697,068, 9-29-87, Cl. 219-449.000.

Schreder, Felix, to E.G.O. Elektro-Gerate Blanc u. Fischer. Electric hotplate. 4,716,277, 12-29-87, Cl. 219-449.000.

Schreder, Felix: *See*—
Fischer, Karl; Schreder, Felix; and Kicherer, Robert, 4,680,452, Cl. 219-449.000.
Goessler, Gerhard; Schreder, Felix; and Wilde, Eugen, 4,700,051, Cl. 219-464.000.
Kicherer, Robert; Schreder, Felix; and Dorner, Leonhard, 4,713,527, Cl. 219-464.000.

Schreffler, Robert Z. Eaves rain gutter. 4,696,131, 9-29-87, Cl. 52-11.000.

Schreib, Bernhard; and Schreib, John K. Bird feeder made from a plastic bottle, including apparatus therefor and a method of making. 4,712,512, 12-15-87, Cl. 119-52.00R.

Schreib, John K.: *See*—
Schreib, Bernhard; and Schreib, John K., 4,712,512, Cl. 119-52.00R.

Schreiber, Alain B.: *See*—
Nestor, John J., Jr.; and Schreiber, Alain B., 4,686,283, Cl. 530-327.000.

Schreiber, Bruno, to Ciba-Geigy Corporation. Self-extinguishing, track-resistant epoxy resin moulding composition and use thereof. 4,668,718, 5-26-87, Cl. 523-451.000.

Schreiber, Bruno: *See*—
Renner, Alfred; Haug, Theobald; and Schreiber, Bruno, 4,713,417, Cl. 525-117.000.

Schreiber Foods, Inc.: *See*—
Childs, Ernest A.; and Narasimhan, Rajagopalan, 4,713,254, Cl. 426-582.000.

Schreiber, Fred G.: *See*—
Gradeff, Peter S.; Schreiber, Fred G.; Charte, Vincent J.; and Davison, John F., 4,647,401, Cl. 252-309.000.
Gradeff, Peter S.; and Schreiber, Fred G., 4,663,439, Cl. 534-15.000.
Gradeff, Peter S.; and Schreiber, Fred G., 4,703,109, Cl. 534-15.000.

Schreiber, Friedewald: *See*—
Vetter, Harald; and Schreiber, Friedewald, 4,672,507, Cl. 361-329.000.

Schreiber, Gerald: *See*—
Rossmann, Christian; Fluechter, Horst; Schreiber, Gerald; and Wichelhaus, Winfried, 4,695,396, Cl. 252-135.000.

Schreiber, Hans, to Optimol Oelwerke GmbH Muenchen. Tertiary amine salt-molybdenum lubricant additive. 4,647,388, 3-3-87, Cl. 252-49.300.

Schreiber, Hans: *See*—
Matzat, Norbert; and Schreiber, Hans, 4,692,255, Cl. 252-51.50A.

Schreiber, Helmut. Method of dewatering a sludge suspension. 4,634,537, 1-6-87, Cl. 210-784.000.

Schreiber, Jurgen; and Guntram, Albrecht, to Buderus Aktiengesellschaft. Device for holding workpieces during machining operations. 4,671,520, 6-9-87, Cl. 279-1.00G.

Schreiber, Karl R.; and Harwood, Brian K., to Andrew Corporation. Tool for cutting coaxial cable. 4,706,384, 11-17-87, Cl. 30-91.200.

Schreiber, Manfred; and Lattion, Andre, to Rieter Machine Works Ltd. Open-end yarn piecer. 4,653,261, 3-31-87, Cl. 57-263.000.

Schreiber, Manfred: *See*—
Lattion, Andre; Bischofberger, Jurg; Salvik, Walter; Stapfer, Jakob; and Schreiber, Manfred, 4,689,945, Cl. 57-263.000.
May, Adolf; Bucking, Hans-Walter; and Schreiber, Manfred, 4,659,487, Cl. 252-8.800.

Schreiber, Paris H. S. Revolver with firing order indicator notches. 4,702,030, 10-27-87, Cl. 42-1.020.

Schreiber, Reinhold; Ostle, Arnold-William; Maier, Walter; and Loebert, Heinz, to Dr. Ing. H.c.F. Porsche Aktiengesellschaft. Paneling member for the interior of automotive vehicles, especially a dashboard. 4,663,210, 5-5-87, Cl. 428-160.000.

Schreiber, Richard J.: *See*—
Kendall, Robert M.; Schreiber, Richard J.; Minden, Andrew C.; and Wong, Thomas, 4,664,620, Cl. 431-328.000.

Schreiber, Robert D., to Scripps Clinic & Research Foundation. Murine monoclonal antibody combining site to human C3b receptor (CR1). 4,672,044, 6-9-87, Cl. 436-501.000.

Schreiber, Saul N. Surgical suture. 4,635,637, 1-13-87, Cl. 128-337.000.

Schreiber, Stuart L., to Yale University. Process for preparing synthetic periplanone-B. 4,639,532, 1-27-87, Cl. 549-332.000.

Schreiber, William L.: *See*—
Fujioka, Futoshi; Boden, Richard M.; and Schreiber, William L., 4,668,431, Cl. 252-522.00R.
Fujioka, Futoshi; Boden, Richard M.; and Schreiber, William L., 4,715,981, Cl. 252-174.110.
Sprecker, Mark A.; Schreiber, William L.; Fujioka, Futoshi; Boden, Richard M.; Vock, Manfred H.; Whelan, Patrick; and Hanna, Marie R., 4,636,333, Cl. 252-522.00R.
Wiegers, Wilhelmus J.; Sprecker, Mark A.; and Schreiber, William L., 4,666,629, Cl. 252-522.00R.

Schreiber, Wolfgang; Ludwig, Manfred; and Haid, Ewald, to C. & E. Fein GmbH & Co. Clutch for power screwdrivers. 4,655,103, 4-7-87, Cl. 81-474.000.

Schreier, Hans H.: *See*—
Garbade, Rolf; Kahle, Hans J.; Schreier, Hans H.; and Jabbusch, Wolfgang, 4,645,018, Cl. 177-6.000.

Schreier, Wolfgang: *See*—
Martin, Helmut; and Schreier, Wolfgang, 4,669,399, Cl. 110-347.000.

Schreinemacher, Herbert: *See*—
Hennings, Detlev; Schnell, Axel; and Schreinemacher, Herbert, 4,692,289, Cl. 264-61.000.

Schreinemakers, Josephus. Impression tray for a dentate human jaw. 4,684,343, 8-4-87, Cl. 433-214.000.

Schreiner, Emerich: *See*—
Freudenschuss, Otto; Herdin, Gunther; Schmidt, Harald; and Schreiner, Emerich, 4,715,541, Cl. 239-533.400.

Schreiner, Franz: *See*—
Kratel, Gunter; Stohr, Gunter; and Schreiner, Franz, 4,636,416, Cl. 428-69.000.

Schreiner, Horst; Rothkegel, Bernhard; Weiser, Josef; and Esterl, Robert. Molded getter bodies and method of producing the same. 4,671,889, 6-9-87, Cl. 252-181.200.

Schreiner, Horst; and Rothkegel, Bernhard, to Siemens Aktiengesellschaft. Sintered, electrical contact material for low voltage power switching. 4,681,702, 7-21-87, Cl. 252-518.000.

Schreiner, Johann. Window or door construction for a building. 4,676,026, 6-30-87, Cl. 49-501.000.

Schreiner, Max, Jr.: *See*—
Mao, Cheng-How; and Schreiner, Max, Jr., 4,665,240, Cl. 585-408.000.

Schreiner, Peter G., III: *See*—
Gray, James S.; Chamberlin, James W.; McBride, Alan L.; and Schreiner, Peter G., III, 4,660,196, Cl. 370-109.000.

Schreiner, Philip A.: *See*—
Dretzka, Ellen E.; Quan, Zoe S.; and Schreiner, Philip A., 4,703,475, Cl. 370-60.000.

Schreiner, Siegfried: *See*—
Appl, Max; Goesele, Wilhelm; Melzer, Jaroslav; Schreiner, Siegfried; and Treiber, Gert, 4,676,961, Cl. 423-265.000.

Schreiner, Stanley M., to T-Bar Incorporated. Method and apparatus for adjusting transmission rates in data channels for use in switching systems. 4,661,966, 4-28-87, Cl. 375-112.000.

Schreiner, Wayne L.: *See*—
Ahmad, Mahmood; and Schreiner, Wayne L., 4,644,528, Cl. 370-58.000.

Ahmad, Mahmood; Sawyer, Albert J.; Schreiner, Wayne L.; and Thomas, Gerald H., 4,686,701, Cl. 379-211.000.

reiner, Wilhelm; and Grimm, Wolfgang, to Bayer Aktiengesellschaft. Apparatus for the continuous production of elongate hollow odies. 4,689,003, 8-25-87, Cl. 425-224.000.

rems, Emil, to Innova Wiener Innovationsgesellschaft M.B.H. lethod of and device for purging water from certain contaminants. 659,347, 4-21-87, Cl. 55-186.000.

renk, Hartmut, to Siemens Aktiengesellschaft. Method and apparas for the non-volatile storage of the count of an electronic counting rcuit. 4,638,457, 1-20-87, Cl. 365-189.000.

renk, Hartmut, to Siemens Aktiengesellschaft. Circuit having a data emory and addressing unit for reading, writing and erasing the emory. 4,648,076, 3-3-87, Cl. 365-230.000.

renk, Hartmut, to Siemens Aktiengesellschaft. CMOS-inverter 675,544, 6-23-87, Cl. 307-264.000.

renk, Hartmut, to Siemens Aktiengesellschaft. Method for operatg a user memory designed a non-volatile write-read memory, and rangement for implementing the method. 4,680,736, 7-14-87, Cl. 5-215.000.

renk, Hartmut, to Siemens Aktiengesellschaft. Circuit for a cord arrier having a memory and an access control unit for secure data ccess. 4,712,177, 12-8-87, Cl. 364-200.000.

renker, Karl-Heinz: *See*—
Link, Heinz; and Schrenker, Karl-Heinz, 4,636,365, Cl. 422-201.000.

reter, Robert E., to Enatech Corporation. Pulverized coal burner 688,496, 8-25-87, Cl. 110-264.000.

reuder, Jan, to Plessey South Africa Limited. Method of and appatus for continuous wave electromagnetic distance measurement of sitioning. 4,646,092, 2-24-87, Cl. 342-125.000.

reuders, Hans G.: *See*—
Schilling, Peter; and Schreuders, Hans G., 4,676,927, Cl. 252-311.500.

reurs, Emile; Joader, Stefan; and Valdemarsson, Stefan, to Asea ktiebolag. Current limiter. 4,714,974, 12-22-87, Cl. 361-12.000.

reurs, Louis P. M.: *See*—
Tan, Sing L.; and Schreurs, Louis P. M., 4,636,835, Cl. 358-12.000.

rey, Frank: *See*—
Chandross, Edwin A.; Dean, Robert E.; Gallagher, Patrick K.; Levy, Roland A.; Schrey, Frank; and Smolinsky, Gerald, 4,708,884, Cl. 427-39.000.

rey, Wolfgang: *See*—
Einsle, Guenter; Mayr, Ernst; Oestreich, Ulrich; Schoeber, Gernot; and Schrey, Wolfgang, 4,689,943, Cl. 57-90.000.

reyegg, Otmar: *See*—
Baumann, Theodor; and Schreyegg, Otmar, 4,662,773, Cl. 405-152.000.

reyer, Franz: *See*—
Arizt, Peter; Muller, Heinz; Egbers, Gerhard; Grimm, Eberhard; and Schreyer, Franz, 4,676,059, Cl. 57-263.000.

ricker, Brian R., to International Minerals & Chemical Corp. Olivr bolus. 4,670,248, 6-2-87, Cl. 424-19.000.

rieber, Ricky J., to Allied Corporation. Method and apparatus for nerating a set of signals representing a curve. 4,674,059, 6-16-87, Cl. 4-523.000.

rieber, Ricky J., to Allied Corporation. Method and apparatus for nerating a set of signals representing a curve. 4,686,632, 8-11-87, Cl. 4-518.000.

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rieber, Ricky J., to Allied Corporation. Method and apparatus for nerating a set of signals representing a curve. 4,688,182, 8-18-87, Cl. 4-523.000.

riefer, Judy: *See*—
Degen, Peter J.; Martin, Jerold; Schriefer, Judy; and Sturley, Brenda, 4,693,985, Cl. 436-531.000.

riewer, Michael; Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, arl G., to Bayer Aktiengesellschaft. Novel antibacterial 7-amino-ubstituted cyclopropyl-1,4-dihydro-4-oxo-3-quinolinecarboxyiic ids. 4,705,788, 11-10-87, Cl. 514-254.000.

rimpf, Christian, to Leine & Konig. System for sealing barrier nstructions in subterranean galleries. 4,712,945, 12-15-87, Cl. 5-132.000.

river, Harold S., Jr., to AMP Incorporated. Moldable composition. 681,691, 7-21-87, Cl. 252-12.000.

rwer, Sven. Means for sealing of a bearing space formed in hydro-tic and aerostatic bearings adapted to receive a fluid. 4,634,297. r-87, Cl. 384-100.000.

rock, Alan: *See*—
Kirchhoff, Robert A.; Schrock, Alan; and Gilpin, Jo A., 4,642,329, Cl. 526-284.000.

rock, Clifford B., to C Cor Labs, Inc. Remote level measurement stem for use in a multi-terminal communications system. 4,648,123, r-87, Cl. 455-67.000.

Schrock, John, Jr. Dispensing device for external or intravenous injection of fluids into a patient. 4,699,296, 10-13-87, Cl. 222-85.000.

Schrock, Richard R., to Massachusetts Institute of Technology. Catalyst composition for effecting metathesis of olefins. 4,681,956, 7-21-87, Cl. 556-12.000.

Schroder, Eckhard; and Thyzel, Reinhard., to Meditec-Reinhardt Thyzel GmbH. Neodymium-YAG laser, for ophthalmological treatment. 4,652,092, 3-24-87, Cl. 350-463.000.

Schroder, Eckhard; and Thyzel, Reinhardt, to Meditec-Reinhardt Thyzel GmbH. Pulsed laser for medical applications. 4,702,245, 10-27-87, Cl. 128-303.100.

Schroder, Gunter; and Berning, Helmut, to Deutsche Gesellschaft fur Wiederaufarbeitung von Kernbrennstoffen mbH. Apparatus for performing remotely-manipulated maintenance on parts of equipment in a shielded nuclear facility. 4,638,234, 1-20-87, Cl. 318-661.000.

Schroder, Gunter; and Eichhhorn, Rudolf, to Deutsche Gesellschaft fur Wiederaufarbeitung von Kernbrennstoffen mbH. Method and apparatus for performing remotely-manipulated work on a conduit of a nuclear facility. 4,674,926, 6-23-87, Cl. 408-40.000.

Schroder, Gunter: *See*—
Mischke, Joachim; and Schroder, Gunter, 4,702,663, Cl. 414-618.000.

Schroder, Gunther: *See*—
Langerbeins, Klaus; Schroder, Gunther; and Boehm, Hans-Peter, 4,713,483, Cl. 560-204.000.

Schroder, Hans L., to Du Pont de Nemours, E. I., and Company. Process for the ozone protection by photopolymer-flexoprinting plates by alcohol-soluble polyamides. 4,640,877, 2-3-87, Cl. 430-14.000.

Schroder, Hartmut: *See*—
Plantholt, Martin; Eiberger, Berthold; and Schroder, Hartmut, 4,661,839, Cl. 358-12.000.

Schroder, Helmut, to Werner & Pfleiderer. Baking oven with hot-air circulation heating. 4,660,540, 4-28-87, Cl. 126-21.00A.

Schroder, Horst, to Maschinenfabrik J. Banning AG. Method and apparatus for radial expansion of rings. 4,688,407, 8-25-87, Cl. 72-111.000.

Schroder, Joachim; Bozung, Hanns-Gunter; Bandel, Rudolf; and Mendle, Hans, to M.A.N.-B&W Diesel GmbH. Turbo supercharger for an internal combustion engine. 4,689,960, 9-1-87, Cl. 60-607.000.

Schroder, Joachim: *See*—
Reule, Alfred; and Schroder, Joachim, 4,707,838, Cl. 372-38.000.

Schroder, Jobst, to Seitz-Filter-Werke Theo & Geo Seitz GmbH und Co. Filter sheet which is free of asbestos. 4,676,904, 6-30-87, Cl. 210-504.000.

Schroder, Johann, to U.S. Philips Corporation. Latent heat storage device for cooling purposes. 4,649,988, 3-17-87, Cl. 165-10.000.

Schroder, Johann; Gawron, Klaus; Bertram, Leo; and Schemmann, Hugo, to U.S. Philips Corporation. Cooling arrangement for heat generating electrical components. 4,709,752, 12-1-87, Cl. 165-47.000.

Schroder, Johann: *See*—
Bukoschek, Romuald L.; Eckel, Merowech; and Schroder, Johann, 4,712,386, Cl. 62-342.000.
Comberg, Albert A.; and Schroder, Johann, 4,678,961, Cl. 313-36.000.

Schroder, Joris; Kiml, Jiri; and Meyer, Fritz, to Inventio AG. Method and apparatus for controlling elevators with double cars. 4,655,325, 4-7-87, Cl. 187-127.000.

Schroder, Joris, to Inventio AG. Apparatus for mounting printed circuit boards on an instrument rack. 4,700,846, 10-20-87, Cl. 211-41.000.

Schroder, Joris, to Inventio AG. Service indicating device for elevators. 4,711,324, 12-8-87, Cl. 187-135.000.

Schroder, Ludwig: *See*—
Mengel, Rudolf; Schroder, Ludwig; Stransky, Werner; Linden, Gerbert; and Lust, Sigmund, 4,655,824, Cl. 71-94.000.

Schroder, Norbert: *See*—
Heinemann, Otto; Nanz, Hans-Hermann; Milewski, Gunter; and Schroder, Norbert, 4,663,031, Cl. 209-427.000.

Schroder, Ralph; and Despineux, Hans, to Noel, Marquet & Cie. S.A. Method of making a moulded body of foam plastics material. 4,661,391, 4-28-87, Cl. 428-159.000.

Schroder, Tom M.: *See*—
Kinnunen, Paavo K. J.; Schroder, Tom M.; and Virtanen, Jorma A., 4,668,623, Cl. 435-19.000.

Schroder, Ulf; and Borrebaeck, Carl, to Gambro Lundia AB. Magnetic carbohydrate particles as carriers for affinity separation purposes. 4,687,748, 8-18-87, Cl. 436-526.000.

Schroder, Ulf. Crystallized carbohydrate matrix for biologically active substances, a process of preparing said matrix, and the use thereof. 4,713,249, 12-15-87, Cl. 424-488.000.

Schroder, Werner. Shear for profile and/or flat and/or solid-section steel stock. 4,638,699, 1-27-87, Cl. 83-452.000.

Schroder, Werner, to LITEF GmbH. Method and apparatus for measuring rate of rotation by the sagnac effect. 4,702,601, 10-27-87, Cl. 356-350.000.

Schroder, Werner: *See*—
Handrich, Eberhard; and Schroder, Werner, 4,702,600, Cl. 356-350.000.
Muhr, Richard; and Schroder, Werner, 4,685,365, Cl. 83-198.000.

Schroder, Wolfgang, to Jos. Schneider Optische Werke Kreuznach GmbH & Co. KG. Reflector telescope with upright image. 4,645,314, 2-24-87, Cl. 350-504.000.

Schrodl, Hermann, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Impact bar for a comminuting rotor. 4,714,207, 12-22-87, Cl. 241-189.00R.

Schrodter, Hermann; Braun, Albert; and Kampmann, Friedrich-Wilhelm, to Hoechst Aktiengesellschaft. Desulfurizing mixture for metal melts, process for making it, and process for desulfurizing liquid metal therewith. 4,687,512, 8-18-87, Cl. 75-58.000.
Schroeder, Clifford A. Molded fiberglass air return filter grille. 4,713,099, 12-15-87, Cl. 55-385.00R.
Schroeder, Diane M., to General Motors Corporation. Electrical connector with position assurance and assist. 4,708,413, 11-24-87, Cl. 439-358.000.
Schroeder, Donald R. Fishline snap connector. 4,696,120, 9-29-87, Cl. 43-44.830.
Schroeder, Edgar C.; *See*—
Owen, Thomas E., and Schroeder, Edgar C., 4,651,311, Cl. 367-147.000.
Owen, Thomas E., and Schroeder, Edgar C., 4,706,228, Cl. 367-147.000.
Schroeder, Edward A., to Porter Equipment Company. Direct mount below the backboard goal system. 4,650,188, 3-17-87, Cl. 273-1.50R.
Schroeder, Gerhard; *See*—
Faust, Karl-Volker, and Schroeder, Gerhard, 4,671,501, Cl. 312-330.00R.
Schroeder, Gerhardt P., to BOC Group, Inc., The. Coaxial breathing circuit. 4,637,384, 1-20-87, Cl. 128-204.180.
Schroeder, Gerhardt P., to BOC Group, Inc., The. Exhalation valve. 4,699,137, 10-13-87, Cl. 128-205.240.
Schroeder, Gertrud; *See*—
Aufdembrinke, Bernd; Dorow, Rainer; Horowski, Reinhard; Suchy, Irmgard; Schroeder, Gertrud; Wachtel, Helmut; Kehr, Wolfgang; and Stock, Gunter, 4,711,891, Cl. 514-313.000.
Schroeder, Guenter; Dudek, Guenther; and Schrader, Heinolf, to Deutsche Gesellschaft fur Wiederaufarbeitung von Kernbrennstoffen mbH. Container for receiving and safely storing radioactive materials and method for tightly sealing the same. 4,673,814, 6-16-87, Cl. 250-506.100.
Schroeder, Guenter; *See*—
Besecke, Siegmund; Schroeder, Guenter; Siegert, Hermann-Josef; and Gaenzler, Wolfgang, 4,647,696, Cl. 562-606.000.
Besecke, Siegmund; Lu3ler, Ralf; Hohage, Heinz-Juergen; and Schroeder, Guenter, 4,652,656, Cl. 548-261.000.
Besecke, Siegmund; and Schroeder, Guenter, 4,675,442, Cl. 564-135.000.
Ude, Werner; Knebel, Joachim; and Schroeder, Guenter, 4,696,993, Cl. 528-167.000.
Schroeder, Guenther; *See*—
Ude, Werner; Besecke, Siegmund; Riemann, Achim; and Schroeder, Guenther, 4,698,448, Cl. 568-14.000.
Schroeder, Hans W.; *See*—
Scherber, Werner; and Schroeder, Hans W., 4,708,419, Cl. 350-1.100.
Schroeder, Harry, to Siemens Aktiengesellschaft. Electromagnetic relay. 4,689,587, 8-25-87, Cl. 335-128.000.
Schroeder, Hartmut; *See*—
Wendland, Broder; and Schroeder, Hartmut, 4,635,114, Cl. 358-140.000.
Schroeder, James L., III; *See*—
Durbin, Roger W.; Kling, John P.; and Schroeder, James L., III, 4,652,842, Cl. 333-182.000.
Farrar, John C.; Ney, Reuben E.; and Schroeder, James L., III, 4,679,013, Cl. 333-182.000.
Farrar, John C.; Schroeder, James L., III; and Yeager, Patrick F., 4,699,590, Cl. 439-95.000.
Pavs, Raymond V.; Schroeder, James L., III; and Ney, Reuben E., 4,648,681, Cl. 339-147.00R.
Schroeder, Johann H.; *See*—
Donhauser, Friedrich; Schoengen, Anton; Schroeder, Johann H.; and Porschen, Jorg, 4,707,274, Cl. 210-774.000.
Schroeder, Joseph G.; and Keeler, Donald E., to International Paper Company. Coating roll surface configuration for applying liquid sterilant to a moving web. 4,664,058, 5-12-87, Cl. 118-249.000.
Schroeder, Joseph W.; and Ahluwalia, Kawaljit S., to Foster Wheeler Development Corporation. Apparatus for forming an expansively expanded tube-tube sheet joint including a barrier tube. 4,685,205, 8-11-87, Cl. 29-727.000.
Schroeder, Michael O.; *See*—
Bhatt, Devesh; and Schroeder, Michael O., 4,636,967, Cl. 364-550.000.
Graf, Carl P.; Fairchild, Kim M.; Fink, Karl M.; Rusler, George W.; and Schroeder, Michael O., 4,645,459, Cl. 434-43.000.
Schroeder, Paul K., to Rockwell International Corporation. Fuel energy quantification system. 4,671,106, 6-9-87, Cl. 73-117.300.
Schroeder, Peter J.; *See*—
Cullen, Paul R.; and Schroeder, Peter J., 4,687,244, Cl. 294-86.410.
Schroeder, Richard J. Spring wedge for vent. 4,646,625, 3-3-87, Cl. 98-1.000.
Schroeder, Robert F.; *See*—
Quinn, Gregory F.; Wulff, Virgil W.; and Schroeder, Robert F., 4,662,857, Cl. 446-371.000.
Schroeder, Royce E., to OFI Testing Equipment Inc. Roller oven for testing fluids. 4,677,843, 7-7-87, Cl. 73-54.000.
Schroeder, Thaddeus, to General Motors Corporation. Method and apparatus for locating top dead center position of a piston of an internal combustion engine. 4,667,510, 5-26-87, Cl. 73-117.300.
Schroeder, Warren W., as Trustee; Turner, Eric B., to Texaco Limited. Offshore hydrocarbon production system. 4,705,114, 11-10-87, Cl. 166-357.000.
Schroeder, Wolfgang; *See*—
Hofmeier, Gerhard; Petersen, Karl; and Schroeder, Wolfgang, 4,714,527, Cl. 204-1.00T.
Schroedter, Wolfgang; *See*—
Doelves, Juergen; and Schroedter, Wolfgang, 4,688,101, Cl. 358-299.000.
Schroer, Bernhard, to Deutsche ITT Industries GmbH. Integrated circuit for identifying a pilot tone. 4,694,495, 9-15-87, Cl. 381-15.000.
Schroer, Ulrich; *See*—
Schrader, Rolf; and Schroer, Ulrich, 4,698,437, Cl. 556-171.000.
Schroeppel, Edward A., to Cordis Corporation. Implant and control apparatus and method employing at least one tuning fork. 4,651,740, 3-24-87, Cl. 128-419.00P.
Schroeppel, Edward A., to Cordis Corporation. Pacing lead with piezoelectric power generating means. 4,690,143, 9-1-87, Cl. 128-419.00P.
Schroeppel, Edward A., to Cordis Leads Inc. Method for controlling pacing of a heart in response to changes in stroke volume. 4,708,143, 11-24-87, Cl. 128-419.00PG.
Schroer, Walter; *See*—
Thoma, Wilhelm; Noll, Klaus; Nachtkamp, Klaus; Pedain, Josef; and Schroer, Walter, 4,652,466, Cl. 427-244.000.
Thoma, Wilhelm; Pedain, Josef; Schroer, Walter; and Kling, Waldemar, 4,657,613, Cl. 156-238.000.
Thoma, Wilhelm; Pedain, Josef; and Schroer, Walter, 4,675,211, Cl. 427-208.800.
Schroer, Wolf-Dieter; Muszik, Janos; Cramm, Guenther; and Best, Otto, to Bayer Aktiengesellschaft. Paper auxiliary from condensation product of aliphatic polyol-ether-amine and compound polyfunctional toward amino groups. 4,673,729, 6-16-87, Cl. 526-397.000.
Schroether, Gerhard; *See*—
Doerfler, Rudolf; Krause, Kurt; Kummerow, Gerd; Moorm[illegible] Boudewijn; Schnabel, Rudolf; Schroether, Gerhard; Voigt, R[illegible] Weidner, Georg; and Zentgraf, Lothar, 4,670,912, Cl. 363-8.000.
Schrofer, Eldred P., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Queue administration method and apparatus, 4,682,284, 7-21-87, Cl. 364-200.000.
Schroff Gesellschaft Mit Beschrankter Haftung; *See*—
Brenting, Wolfram; and Sonnabend, Werner, 4,675,781, Cl. 361-414.000.
Mazura, Paul, 4,669,616, Cl. 211-41.000.
Schroll, Ross E.; *See*—
Harrigan, Michael E.; Durbin, John A.; and Schroll, Ross E., 4,701,027, Cl. 350-334.000.
Schrom, Ralf-H.; and Baltes, Horst, to General Motors Corporation. Mounting or locking assembly, especially for use with pivotal motor vehicle seats. 4,711,493, 12-8-87, Cl. 297-379.000.
Schrom, Ralf-Henning; and Trutter, Walter P., to General Motors Corporation. Mounting aid and method for assembling a rear bench seat of a motor vehicle. 4,672,730, 6-16-87, Cl. 29-241.000.
Schromm, Kurt; Mentrup, Anton; Roth, Ernst-Otto; Fugmi, Arno; and Streifer, Ilse, to Boehringer Ingelheim KG. Heterocyclic amidopenicillanic acid compounds. 4,647,563, 3-3-87, Cl. 514-234.000.
Schroeder, Joris, to Inventio AG. Apparatus for the load dependent control of an elevator. 4,708,224, 11-24-87, Cl. 187-122.000.
Schropp, Leopold; *See*—
Enkner, Bernhard; Amon, Leopold; Kubelbeck, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Fritz, 4,678,168, Cl. 266-196.000.
Enkner, Bernhard; Stephaou, Dietmar; Schropp, Leopold; and Stastny, Wilhelm, 4,678,419, Cl. 432-143.000.
Enkner, Bernhard; Amon, Leopold; Kubelbeck, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Fritz, 4,697,274, Cl. 373-79.000.
Schroter & Bake GmbH & Co. KG.; *See*—
Schroter, Stefan, 4,651,871, Cl. 206-44.00R.
Schroter, Damon C., to Robotics Incorporated. Apparatus for dispensing medium to high viscosity liquids with liquid flow detector and alarm. 4,662,540, 5-5-87, Cl. 222-55.000.
Schroter, Gottfried; *See*—
Slemmer, Janos; and Schroter, Gottfried, 4,694,825, Cl. 128-205.240.
Schroter, Michael; *See*—
Graf, Rolf; Reh, Lothar; and Schroter, Michael, 4,670,237, Cl. 423-244.000.
Schroter, Stefan, to Schroter & Bake GmbH & Co. KG. Foldable floor display stand. 4,651,871, 3-24-87, Cl. 206-44.00R.
Schroth, Carl G.; *See*—
Pomplun, William S.; Popp, Robert L.; Woon, Paul A.; Schroth, Carl G.; and Stevens, Robert A., 4,663,106, Cl. 264-230.000.
Schrott, Georg W.; *See*—
Bauer, Anton E.; Billmann, Gerhard; Ratike, Jorg; Schmatz, Hans-Joachim; Schrott, Georg W.; and Wodok, Hans, 4,690,5[illegible] Cl. 350-96.200.
Schrott, Wolfgang; Neumann, Peter; and Albert, Bernhard, to BASF Aktiengesellschaft. Camphordithiolene complexes. 4,675,4[illegible] 6-23-87, Cl. 556-136.000.
Schrotz, Kurt, to Esselte Pendaflex Corporation. Printing mechanism with knob attached via slip coupling. 4,662,276, 5-5-87, Cl. 101-111.000.
Schroven, Marc F. J.; *See*—
Van Lommen, Guy R. E.; De Bruyn, Marcel F. L.; and Schroven, Marc F. J., 4,654,362, Cl. 514-452.000.

Schrudde, Reinhold; Lohe, Rainer; and Hampel, Klaus, to Kochs Adler AG. Chain stitch sewing machine. 4,643,113, 2-17-87, Cl. 112-199.000.
Schub, Ingeborg. *See*—
Hentzel, Volker; Keschtkar, Hossein-Ali; and Schub, Ingeborg. 4,661,155, Cl. 75-237.000.
Schubert, Ernst. *See*—
Krakkay, Tibor; Poggi, Tatjana; and Schubert, Ernst. 4,673,721, Cl. 526-329.800.
Krakkay, Tibor; Poggi, Tatjana; and Schubert, Ernst. 4,683,286, Cl. 525-329.100.
Schubert, Karl F.. *See*—
Kohler, Alfred; Schneider, Theodor; and Schubert, Karl F.. 4,639,065, Cl. 339-119.00R.
Schubert, Karl P.. *See*—
Eichenhofer, Josef; and Schubert, Karl P.. 4,665,781, Cl. 82-3.000.
Schubert, Keith E.. *See*—
Pollak, Philip, Jr.; and Schubert, Keith E.. 4,682,541, Cl. 101-91.000.
Schubert, Paul C.; and Thakrar, Anil C., to AMP Incorporated. Electrical connector having in-line manufactured seal and method of manufacture. 4,664,461, 5-12-87, Cl. 339-59.00M.
Schubert, Peter J., to General Motors Corporation. Method of fabricating self-aligned silicon-on-insulator like devices. 4,714,685, 12-22-87, Cl. 437-41.000.
Schubert, Peter J.; and Alvi, Nadeem S., to General Motors Corporation. Method of fabricating silicon-on-insulator like devices. 4,716,128, 12-29-87, Cl. 437-41.000.
Schubert, Rainer; and Weber, Otto, to Vereinigte Schraubenwerke GmbH. Schubert, Rainer; and Weber, Otto. Mounting element for a flat insulating body which can be attached to a thin-walled base. 4,691,853, 9-15-87, Cl. 411-387.000.
Schubert & Salzer. *See*—
Artzt, Peter; Egbers, Gerhard; and Rottmayr, Hans. 4,633,660, Cl. 57-263.000.
Artzt, Peter; Muller, Heinz; Egbers, Gerhard; Grimm, Eberhard; and Schreyer, Franz. 4,676,059, Cl. 57-263.000.
Artzt, Peter; Rottmayr, Hans; and Bauer, Wolfgang. 4,679,388, Cl. 57-263.000.
Artzt, Peter; Rottmayr, Hans; and Bauer, Wolfgang. 4,697,411, Cl. 57-401.000.
Artzt, Peter; and Muller, Heinz. 4,698,962, Cl. 57-409.000.
Artzt, Peter; Muller, Heinz; Ziegler, Kurt; Egbers, Gerhard; and Wirkaus, Jacek. 4,700,431, Cl. 19-105.000.
Balz, Jurgen. 4,643,226, Cl. 137-625.330.
Bittner, Werner. 4,697,410, Cl. 57-401.000.
Handschuh, Karl; and Bock, Erich. 4,697,409, Cl. 57-401.000.
Handschuh, Karl. 4,700,539, Cl. 57-401.000.
Landwehrkamp, Hans. 4,665,930, Cl. 57-416.000.
Landwehrkamp, Hans. 4,698,879, Cl. 19-98.000.
Lovas, Kurt; Mayer, Walter; and Wittmann, Stephan. 4,644,742, Cl. 57-263.000.
Oesler, Rudolf; and Veit, Kurt. 4,653,266, Cl. 57-407.000.
Schaller, Edmund; Bohm, Gunther; and Karl, Rupert. 4,687,148, Cl. 242-18.0PW.
Schubert & Salzer Maschinenfabrik Aktiengesellschaft. *See*—
Burkhard, Ludwig; Schaller, Edmund; Lovas, Kurt; and Karl, Rupert. 4,634,064, Cl. 242-18.0PW.
Lovas, Kurt; and Deininger, Franz. 4,638,625, Cl. 57-263.000.
Oesler, Rudolf; and Hackenberg, Willi. 4,662,166, Cl. 57-296.000.
Schubert, Steven A.. *See*—
Magnuson, Roy H.; and Schubert, Steven A.. 4,686,858, Cl. 436-104.000.
Schubert, Thomas F.. *See*—
Gray, Floyd L.; Schubert, Thomas F.; Bradshaw, Kenneth M.; and Kolawole, Joshua O.. 4,680,545, Cl. 324-307.000.
Schubert, Wolf-Dieter. *See*—
Benecke, Theodor; Lux, Benno; Schubert, Wolf-Dieter; Ta, An Tuan; and Kahr, Gerhard. 4,642,135, Cl. 420-33.000.
Schuch, Jorn. *See*—
Marg, Paul; Joppe, Werner; and Schuch, Jorn. 4,630,233, Cl. 294-64.100.
Schuchardt, Gunter. *See*—
Black, Karl-Heinz; and Schuchardt, Gunter. 4,692,699, Cl. 315-381.000.
Schuck, Helmut; Foerster, Karl-Heinz; Kuehn, Monika; and Schanze, Klaus, to Veb Kombinat Polygraph "Werner Lamberz" Leipzig. Control system for printing machines. 4,701,757, 10-20-87, Cl. 340-825.060.
Schucker, Josef, to ASEA GmbH. Process for the control and adjustment of the flow of a viscous liquid in an apparatus which automatically emits the viscous liquid in the form of a seam. 4,666,732, 5-19-87, Cl. 427-8.000.
Schucker, Thomas R., to J. M. Voith GmbH. Bulb turbine emergency counterweight system. 4,688,986, 8-25-87, Cl. 415-24.000.
Schuckmann, Alfred V., to Beamlage Gesellschaft mit beschrankter Haftung. Dispenser for pasty compositions, particularly toothpaste dispenser. 4,651,904, 3-24-87, Cl. 222-383.000.
Schuco Heinz Schurmann GmbH & Co.. *See*—
Jager, Tilo; Tonsmann, Armin; Habicht, Siegfried; and Hocker, Eitel. 4,646,408, Cl. 29-243.500.
Jager, Tilo; Tonsmann, Armin; Habicht, Siegfried; and Hocker, Eitel. 4,662,054, Cl. 29-451.000.
Tonsmann, Armin. 4,638,613, Cl. 52-235.000.
Schudel, Peter; Schwarzenbach, Rolf; and Gonzenbach, Hans U., to Givaudan Corporation. Process for treating 2-ethylhexyl p-methoxycinnamate in the presence of a phenol. 4,713,473, 12-15-87, Cl. 560-053.000.
Schue, Francois. *See*—
Buigues, Francois; Giral, Louis; Roulin, Charles; and Schue, Francois. 4,689,288, Cl. 430-270.000.
Schue, Thomas J.. *See*—
Niksa, Marilyn J.; Pohto, Gerald R.; Lakatos, Leslie K.; Wheeler, Douglas J.; Niksa, Andrew J.; and Schue, Thomas J.. 4,693,946, Cl. 429-27.000.
Schueco Heinz Schuermann GmbH & Co. *See*—
Grimm, Friedrich B.. 4,676,043, Cl. 52-648.000.
Schuegraf, Eberhard. Polarization separating filter for hyper frequency structures. 4,700,154, 10-13-87, Cl. 333-125.000.
Schueller, Pierre. *See*—
Bonniau, Michel; and Schueller, Pierre. 4,660,012, Cl. 335-234.000.
Schuermann, Rodger W.. *See*—
Brown, Gregory D.; Clark, Darrel E.; and Schuermann, Rodger W.. 4,694,692, Cl. 73-155.000.
Schuett, Bernd; and Kronenberg, Martin, to Alfred Teves GmbH. Hydraulic brake system. 4,647,114, 3-3-87, Cl. 303-92.000.
Schuett, Uwe. *See*—
Strachle, Wolfgang; Marx, Matthias; and Schuett, Uwe. 4,698,410, Cl. 528-76.000.
Schuett, Walter, to BASF Aktiengesellschaft. Storage container for a tape cassette. 4,673,093, 6-16-87, Cl. 206-387.000.
Schuette, Wilhelm; McKee, Graham Edmund; Hilt, Albrecht; Heinz, Gerhard; and Goerrissen, Heiner, to BASF Aktiengesellschaft. Impact-resistant polyoxymethylene molding materials and their preparation. 4,639,488, 1-27-87, Cl. 524-456.000.
Schuette, Wilhelm. *See*—
Heinz, Gerhard; Schuette, Wilhelm; and Simon, Georg N.. 4,645,785, Cl. 524-100.000.
Schuettenberg, Alexander D.; and Gragson, James T., to Phillips Petroleum Company. Solid form additives and method of forming same. 4,639,255, 1-27-87, Cl. 44-62.000.
Schuettenberg, Alexander D., to Phillips Petroleum Company. Gasoline compositions containing branched chain amines or derivatives thereof. 4,640,787, 2-3-87, Cl. 252-51.50A.
Schuetz, Alfred; Muller, Wolfgang; and Soutschek, Ewald, to Siemens Aktiengesellschaft. Integrated circuit for the emission of a voltage which alternates between positive and negative voltage levels. 4,701,634, 10-20-87, Cl. 307-269.000.
Schuetz, Hans-Josef, to Ing. Erich Pfeiffer GmbH & Co. KG. Discharge apparatus for flowable media. 4,694,976, 9-22-87, Cl. 222-189.000.
Schuetz, James A., to Honeywell Inc.. Reactively sputtered chromium-silicon nitride resistors. 4,681,812, 7-21-87, Cl. 428-432.000.
Schuetz, James E.. *See*—
Chum, Pak-Wing S.; Barger, Mark A.; Dean, Thuan P.; and Schuetz, James E.. 4,661,303, Cl. 264-171.000.
Keskey, William H.; Schuetz, James E.; and Hickman, Andrew D.. 4,644,032, Cl. 524-549.000.
Schuetz, Jeffrey M.. *See*—
Lustig, Stanley; Schuetz, Jeffrey M.; and Vicik, Stephen J.. 4,714,638, Cl. 428-35.000.
Schuetzeberg, Jerome H.. *See*—
Schuetzeberg, Roy L.; and Schuetzeberg, Jerome H.. 4,659,129, Cl. 294-147.000.
Schuetzeberg, Roy L.; and Schuetzeberg, Jerome H.. Ski carrier with lock. 4,659,129, 4-21-87, Cl. 294-147.000.
Schufer, Dieter, to Leifheit AG. Folding hand truck. 4,679,817, 7-14-87, Cl. 280-655.000.
Schuh, Bernhard. *See*—
Elsasser, Dieter; and Schuh, Bernhard. 4,658,312, Cl. 360-97.000.
Schuh, Frank J., to Atlantic Richfield Company. Electrode well and method of completion. 4,640,353, 2-3-87, Cl. 166-248.000.
Schuh, Frank J.; and Hearn, David D., to Atlantic Richfield Company. Drainhole drilling assembly with oriented elliptic drill collar. 4,653,598, 3-31-87, Cl. 175-75.000.
Schuh, Frank J.; and Hearn, David D., to Atlantic Richfield Company. Means for reducing bending stresses in drill pipe. 4,674,580, 6-23-87, Cl. 175-325.000.
Schuh, Frank J.. *See*—
Biggs, Michael D.; and Schuh, Frank J.. 4,648,469, Cl. 175-57.0.
Ibetsu, Amjad A.; Jan, Yih-Min; and Schuh, Frank J.. 4,715,451, Cl. 175-40.000.
Schuh, Gisela, Sabine Schuh, Michael Schuh, heirs. *See*—
Diegel, Dieter; Plohn, Gerhard; and Schuh, Manfred, deceased. 4,694,188, Cl. 290-40.00B.
Schuh, Manfred, deceased. *See*—
Diegel, Dieter; Plohn, Gerhard; and Schuh, Manfred, deceased. 4,694,188, Cl. 290-40.00B.
Schuh, Rudolf, to Mead Corporation, The. Product retard device for drop-loading packaging machine. 4,691,495, 9-8-87, Cl. 53-48.000.
Schuhmann, Siegfried. *See*—
Dorn, Alfred; Schramm, Peter; Schuhmann, Siegfried; and Zingher, Oded. 4,648,048, Cl. 364-526.000.
Schuierer, Andreas. *See*—
Ehrlenspiel, Klaus; John, Thomas; and Schuierer, Andreas. 4,643,698, Cl. 464-111.000.
Schuierer, Manfred, to Bruckner Apparatebau GmbH. Apparatus for the wet treatment of a continuous length of textile material. 4,633,606, 1-6-87, Cl. 118-419.000.
Schuiling, Roelof D., to Rijksuniversiteit Utrecht. Method for neutralizing waste sulfuric acid by adding a silicate. 4,707,348, 11-17-87, Cl. 423-554.000.

Schuur, Alexander; and Schrauder, Franz, to F. Wieland Elektrische Industrie GmbH. Keyboard controlled apparatus for the identification of small parts. 4,648,184, 3-10-87, Cl. 33-18.100.
Schuitmaker, Pieter D.: *See*—
Bierhoff, Waltherus C. J.; Schuitmaker, Pieter D.; Ouwerkerk, Cornelis; and Verhoeven, Robertus J. M., 4,696,590, Cl. 400-613.000.
Jansen, Gerardus L. M.; Smulders, Henricus J.; and Schuitmaker, Pieter D., 4,691,311, Cl. 369-100.000.
Schukar, Gary W.: *See*—
Amundsen, Louis R.; Patterson, Robert P.; Baxter, Tanya L.; Scudder, Glenn N.; Duescher, Wayne O.; Dahlman, Willis E.; Schukar, Gary W.; and Steinback, Clarence I., 4,702,108, Cl. 73-379.000.
Johnson, Dewey A.; Hamlin, Gregory P.; and Schukar, Gary W., 4,641,555, Cl. 83-29.000.
Schukei, Glen E.; and Schukei, Robert J., to Combustion Engineering, Inc. Rapid installation tube gripper. 4,643,472, 2-17-87, Cl. 294-94.000.
Schukei, Glen E., to Combustion Engineering, Inc. High pressure nozzle dam. 4,682,630, 7-28-87, Cl. 138-89.000.
Schukei, Robert J.: *See*—
Schukei, Glen E.; and Schukei, Robert J., 4,643,472, Cl. 294-94.000.
Schukoff, Bruno, to A. V. L. Gesellschaft fur Verbrennungskraftmaschinen und Messtechnik mbh Prof. Dr.Dr. h.c. Hans List. Device for the temporary interruption of the pressure build-up in a fuel injection pump. 4,681,080, 7-21-87, Cl. 123-506.000.
Schuldt, Larry J. Electrical box with integral air and moisture barrier. 4,673,097, 6-16-87, Cl. 220-3.500.
Schuldt, Oswald: *See*—
Conrad, Ulrich; Kellermann, Guenter; Breymayer, Angela; Klinker, Rolf; Schuldt, Oswald; Hoffmann, Rainer; and Fabian, Frank-Dietrich, 4,709,548, Cl. 60-280.000.
Schulenberg, Heinrich; and Wisse, Otto, to GEA Luftkuehlergesellschaft Happel GmbH & Co. Arrangement for drawing transverse ribs. 4,685,204, 8-11-87, Cl. 29-726.000.
Schulenburg, Michael: *See*—
Vier, Fritz; Schulenburg, Michael; and Wiese, Dietrich, 4,699,071, Cl. 110-345.000.
Schuler, Dorland, to Schuler Mfg. & Equip. Co., Inc. Feed mixing device. 4,664,527, 5-12-87, Cl. 366-141.000.
Schuler, Frederick T.; and Flores, Randolph, to Rockwell International Corporation. Fluid-cooled channel construction. 4,707,225, 11-17-87, Cl. 204-9.000.
Schuler, Fredrick E., to Donaldson Company, Inc. By-pass valve. 4,702,269, 10-27-87, Cl. 137-246.120.
Schuler Mfg. & Equip. Co., Inc.: *See*—
Schuler, Dorland, 4,664,527, Cl. 366-141.000.
Schuler, Robert. Holder for IV tube. 4,666,111, 5-19-87, Cl. 248-125.000.
Schuler, Robert: *See*—
Kolarik, Zdenek; and Schuler, Robert, 4,659,551, Cl. 423-10.000.
Schuler, Roland: *See*—
Herzog, Kurt; and Schuler, Roland, 4,704,787, Cl. 29-596.000.
Schulke, Karl A., to Heraeus Quarzschmelze GmbH. Rack for supporting wafers for treatment. 4,653,650, 3-31-87, Cl. 211-41.000.
Schuller, Edmund; Bohm, Gunther; and Karl, Rupert, to Schubert & Salzer. Apparatus and process for forming a thread-reserve winding. 4,687,148, 8-18-87, Cl. 242-18.0PW.
Schuller, Edmund: *See*—
Burkhard, Ludwig; Schuller, Edmund; Lovas, Kurt; and Karl, Rupert, 4,634,064, Cl. 242-18.0PW.
Schuller, Karl-Heinz: *See*—
Deppisch, Gerd; Roll, Klaus; and Schuller, Karl-Heinz, 4,652,358, Cl. 204-298.000.
Schuller, Kurt, to Fichtel & Sachs AG. Gear-change device for a multi-ratio gear-change hub for bicycles or the like. 4,658,667, 4-21-87, Cl. 74-475.000.
Schulman, Richard D.: *See*—
Hanas, Orest J.; Pennypacker, Frank C.; Radloff, Charles B.; and Schulman, Richard D., 4,709,266, Cl. 380-20.000.
Schult, Manfred: *See*—
Feldman, Joachim; and Schult, Manfred, 4,718,225, Cl. 188-1.110.
Rothen, Johann; and Schult, Manfred, 4,671,578, Cl. 303-15.000.
Schulte, Bernhard: *See*—
Serim, Volker; Schulte, Bernhard; Waldenrath, Werner; Freitag, Dieter; Hucks, Uwe; Wank, Joachim; and Weber, Hans-Leo, 4,654,411, Cl. 528-176.000.
Schulte-Elektrotechnik GmbH & Co. KG: *See*—
Schulte, Siegfried; and Boing, Manfred, 4,653,835, Cl. 339-128.000.
Schulte, Siegfried; and Boing, Manfred, 4,689,454, Cl. 200-159.00A.
Schulte-Elte, Karl-Heinrich; Ohloff, Gunther; Muller, Bernard L.; and Giersch, Wolfgang K., to Firmenich SA. Composition essentially consisting of trans-1-(2,6,6-trimethylcyclohexyl)-hexan-3-ol. 4,711,875, 12-8-87, Cl. 512-1.000.
Schulte, Eugene L. One rammer ski sled with outriggers. 4,653,763, 3-31-87, Cl. 280-12.0KI.
Schulte, Frank. Barge coupler assembly. 4,714,042, 12-22-87, Cl. 114-77.00R.
Schulte, Franklin L.: *See*—
Jadwin, Reese; Herbert, Roger P.; Schulte, Franklin L.; and Rubin, Sheldon, 4,653,318, Cl. 73-151.000.
Schulte, Heinz; and Mucheyer, Norbert, to Mannesmann Rexroth GmbH. Apparatus for controlling an adjustable member. 4,677,899, 7-7-87, Cl. 91-403.000.
Schulte, Klaus; and Ersfeld, Heinrich, to Bayer Aktiengesellschaft. Apparatus for the production of moldings from flowable reactive components. 4,680,003, 7-14-87, Cl. 425-206.000.
Schulte, Klaus; Nadolski, Klaus; Ersfeld, Heinrich; Ebeling, Wilfried; Boden, Heinrich; and Schneider, Walter, to Bayer Aktiengesellschaft. Piston metering device for the production of plastic material from at least two flowable reaction components. 4,695,166, 9-22-87, Cl. 366-160.000.
Schulte, Klaus: *See*—
Peters, Robert; Schulte, Klaus; Sachs, Hanns J.; and Kasperek, Peter, 4,652,595, Cl. 523-315.000.
Schulte-Ladbeck, Bernd H.: *See*—
Irani, Andrew A.; Schulte-Ladbeck, Bernd H.; and Aram, Asper A., 4,707,883, Cl. 16-110.00R.
Schulte, Richard R. Remote steering assembly kit for outboard trolling motors. 4,669,987, 6-2-87, Cl. 440-6.000.
Schulte, Richard R. Remote steering assembly kit for outboard trolling motors. 4,715,836, 12-29-87, Cl. 440-6.000.
Schulte, Rudolf R.; East, Gary P.; Bryant, Marga M.; and Heindl, Alfons, to Pudenz-Schulte Medical Research Corp. Burr-hole flow control valve. 4,636,194, 1-13-87, Cl. 604-9.000.
Schulte, Rudolf R.; East, Gary P.; and Heindl, Alfons, to Pudenz-Schulte Medical Research Corp. Subcutaneous infusion reservoir and pump system. 4,681,560, 7-21-87, Cl. 604-9.000.
Schulte-Schlagbaum Aktiengesellschaft: *See*—
Eisermann, Armin, 4,658,612, Cl. 70-402.000.
Schulte, Siegfried; and Boing, Manfred, to Schulte-Elektrotechnik GmbH & Co. KG. Electrical plug-coupler-system. 4,655,835, 3-31-87, Cl. 339-128.000.
Schulte, Siegfried; and Boing, Manfred, to Schulte-Elektrotechnik GmbH & Co. KG. Electrical push button switch having a splash-proof cylindrical enclosure. 4,689,454, 8-25-87, Cl. 200-159.00A.
Schulte, Susan M.: *See*—
Kwon, Young J.; and Schulte, Susan M., 4,711,664, Cl. 75-84.500.
Schulte, Thomas H.: *See*—
Mansour, James D.; Schulte, Thomas H.; and Neese, Vernon R., 4,693,972, Cl. 435-34.000.
Schulte, Thomas L. Method of chemically debriding ulcerated necrotic tissue. 4,708,873, 11-24-87, Cl. 424-195.100.
Schulte, Thomas L. Method of ameliorating obstructions of the bowel. 4,713,377, 12-15-87, Cl. 514-166.000.
Schulte, Winfried: *See*—
Baumers, Hans; Lietzke, Heinz; and Schulte, Winfried, 4,638,877, Cl. 180-21.000.
Schulten, Gerd-Hermann: *See*—
Brunn, Horst; Schulten, Gerd-Hermann; and Fuhr, Werner, 4,701,221, Cl. 106-304.000.
Schulten, Hermann: *See*—
Felten, Klaus; Honroth, Walter; Kuhn, Siegfried; Schulten, Hermann; and Zeller, Bruno, 4,696,209, Cl. 82-40.00E.
Schulten, Rudolf: *See*—
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Schultz, Richard. Hammer mill. 4,690,339, 9-1-87, Cl. 241-73.000.
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...nn, Klaus. *See*—

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...g, Eric; Jeschke, Peter; Schumann, Klaus; and Altenschoepfer, ...heodor, 4,692,260, Cl. 252-99.000.

...nn, Reinhard. *See*—

...ba, Frank C.; Bhandarkar, Dileep P.; Grady, J. J., III; Lackey, ...enley A., Jr.; Mitchell, Jeffrey W.; and Schumann, Reinhard, ...648,030, Cl. 364-200.000.

...ba, Frank C.; Schumann, Reinhard; Jenkins, Steven R.; and ...ofer, Paul, 4,661,905, Cl. 364-200.000.

...n, Werner. *See*—

...la, Hans-Georg; Winkler-Trudewig, Magdalena; and Schu...nn, Werner, 4,704,371, Cl. 501-40.000.

...er, Arthur. *See*—

..., Norbert; Economopoulos, Marios; Gredt, Marc; Lessel, ...; and Schummer, Arthur, 4,704,166, Cl. 148-12.00B.

...r, Helmut. *See*—

... Franz; Bocker, Heinrich; Neulinger, Franz; and Schummer, ...lmut, 4,690,694, Cl. 55-4.000.

...mmer, Richard; Donig, Gerhard; Gaul, Hartmut; Schmidt, ...ller; Neulinger, Franz; and Schummer, Helmut, 4,670,829, Cl. ...-57.000.

... Richard A.; and Holzman, Richard W., to Falk Corporation, ...nt drive cooling system. 4,633,938, 1-6-87, Cl. 165-47.000.

...utte, Karl H. *See*—

...nuwerth, Hauke; and Schundehutte, Karl H., 4,705,861, Cl. ...-178.000.

... Karl J.; and Schundehutte, Karl H., 4,659,827, Cl. ...-299.000.

... Walter; Schundehutte, Karl H.; and Soll, Manfred, 4,695,632, ...544-194.000.

...r, Erich; Baasner, Bernd; and Schundehutte, Karl H., ...6,229, Cl. 544-334.000.

...chard. *See*—

...meyer, Friedrich; Schunk, Eckard; Winter, Frank; and Jack... Clive L., 4,646,318, Cl. 373-105.000.

... Roland, to Fissordress Reinigungsgeraete. Floor wiper frame. ...6, 7-21-87, Cl. 15-147.00R.

...erhard; Osterloh, Rolf; Loch, Werner; and Ahlers, Klaas, to ... Aktiengesellschaft. Binders for cataodic electrocoating. ...6, 12-15-87, Cl. 523-415.000.

...erhard. *See*—

...er, Fritz E.; Petersen, Harro; Schupp, Eberhard; Sabelus, ...ther; and Schmidt, Horst, 4,647,604, Cl. 523-402.000.

... Werner; Schupp, Eberhard; Osterloh, Rolf; and Ahlers, ...s, 4,699,937, Cl. 523-415.000.

...h, Rolf; Schupp, Eberhard; Loch, Werner; and Ahlers, ...s, 4,713,440, Cl. 528-367.000.

...rl. *See*—

... Karl; Schupp, Karl; and Block, Siegfried, 4,656,471, Cl. ...25.160.

..., Herbert, to Gebr. Eickhoff Maschinenfabrik and Eisen... m.b.H. Apparatus for controlling the discharge of pressur... from nozzles on a cutting drum of a mining machine. ...9-8-87, Cl. 299-1.000.

..., Klaus. *See*—

...tte, Dieter; Schupphaus, Klaus; Trowe, Gunter; Kosske, ... D.; and Hubel, Friedrich, 4,663,134, Cl. 423-220.000.

...Berthold. *See*—

...n, Horst; and Schuppler, Berthold, 4,660,465, Cl. ...5.400.

... to Brauerei Feldschlosschen. Process for the preparation ...l-free drinks with a yeast aroma. 4,661,355, 4-28-87, Cl. ...).

...nesto. Tilting exercise bed actuated by a linear electronic ...levice. 4,672,697, 6-16-87, Cl. 5-62.000.

...chard C., to BMC Manufacturing Inc. Collapsible con... ...15,508, 12-29-87, Cl. 220-7.000.

...forst, to Gildemeister DeVlieg System Werkzeuge GmbH. ... workpiece holding arrangement for material removing ... 4,655,655, 4-7-87, Cl. 409-232.000.

...ainer. *See*—

...Gunter; Schurger, Rainer; and Ernst, Horst M., 4,643,594, ...4-478.000.

...rnd. *See*—

...Gert; Schurich, Bernd; Worner, Jorg; and Schock, Hans... ...r, 4,707,561, Cl. 136-256.000.

...muth. *See*—

... Helmut; Schurig, Helmuth; Bergner, Dieter; and ...sen, Kurt, 4,664,770, Cl. 204-252.000.

...mann; Grimm, Wolfgang; and Paysan, Heinz-Wilhelm, to ... Stiftung. Laser safety eyeglasses. 4,703,522, 11-3-87, Cl. ...

...Helmut. *See*—

... Kaspar; Schurmann, Helmut; and Brand, Erich, ...57, Cl. 252-62.000.

Schurmans, Jacques; Neukermans, Herman; Quibel, Jacques; and Dupont, Rene', to Societe Chimique de la Grande Paroisse, Azote Products Chimiques, and Catalysts and Chemical Europe. Methanol reforming process and apparatus for practicing it. 4,670,187, 6-2-87, Cl. 252-373.000.

Schurr, Volker, to Andreas Stihl. Chain saw having a braking arrangement. 4,683,660, 8-4-87, Cl. 30-382.000.

Schurter, Rolf; and Pissiotas, Georg, to Ciba-Geigy Corporation. Sulfonylureas. 4,637,829, 1-20-87, Cl. 71-90.000.

Schurter, Rolf; Thummel, Rudolph C.; Topfl, Werner; Meyer, Willy; and Durr, Dieter, to Ciba-Geigy Corporation. N-phenylsulfonyl-N'-pyrimidinylureas as herbicides and plant growth regulants. 4,664,695, 5-12-87, Cl. 71-92.000.

Schurter, Rolf; and Pissiotas, Georg, to Ciba-Geigy Corporation. Sulfonylureas. 4,707,177, 11-17-87, Cl. 71-90.000.

Schurter, Rolf; and Rempfler, Hermann, to Ciba Geigy Corporation. 2-[4-(5-chloro-3-fluoropyridin-2-yloxy)phenoxy]-propionic acid-propynyl ester with herbicidal activity. 4,733,109, 12-15-87, Cl. 71-94.000.

Schurter, Rolf. *See*—

Bohner, Beat; Rempfler, Hermann; and Schurter, Rolf, 4,640,703, Cl. 71-92.000.

Bohner, Beat; Fory, Werner; Schurter, Rolf; and Pissiotas, Georg, 4,681,620, Cl. 71-93.000.

Bohner, Beat; Fory, Werner; Schurter, Rolf; and Pissiotas, Georg, 4,684,730, Cl. 544-408.000.

Bohner, Beat; Fory, Werner; Schurter, Rolf; and Pissiotas, Georg, 4,707,551, Cl. 544-408.000.

Lukaszczyk, Alfons; Martin, Henry; Diel, Peter J.; Fory, Werner; Gotzi, Karl; Kristinsson, Haukur; Muller, Beat; M...twyler, Rene'; Pachlatko, Johannes P.; Rempfler, Hermann; Sch...ter, Rolf; and Szczepanski, Henry, 4,715,883, Cl. 71-90.000.

Schurzky, Kenneth G. *See*—

Hagerty, Robert O.; Petsche, Irena B.; and Schurzky, Kenneth G., 4,634,752, Cl. 526-129.000.

Schuss, Jack A., to Combustion Engineering, Inc. Distributed control with mutual spare switch over capability. 4,635,184, 1-6-87, Cl. 364-187.000.

Schuss, Jack A., to Combustion Engineering, Inc. Distributed control with universal program. 4,672,530, 6-9-87, Cl. 364-133.000.

Schuss, Werner. *See*—

Landgraf, Hermann; Schuss, Werner; and Schwarz, Werner, 4,647,081, Cl. 285-304.000.

Landgraf, Hermann; Schuss, Werner; and Worschischek, Rainer-Karl, 4,681,540, Cl. 433-126.000.

Schuster, Gert; Vierrath, Helmut; Kupfer, Hans; and Wolf, Heinz, to Metallgesellschaft Aktiengesellschaft. Fuel distributor in a reactor for gasifying solid granular fuels. 4,643,739, 2-17-87, Cl. 48-86.00R.

Schuster, Hans D.. *See*—

Abthoff, Joerg; Schuster, Hans D.; Langer, Hans J.; Zahn, Wolfgang; and Ebinger, Gunther, 4,691,562, Cl. 73-118.100.

Schuster, Hans-Dieter. *See*—

Abthoff, Joerg; Schuster, Hans-Dieter; Loose, Gunter; and Jokl, Bernhard, 4,667,469, Cl. 60-311.000.

Abthoff, Joerg; Schuster, Hans-Dieter; Loose, Gunter; and Jokl, Bernhard, 4,704,863, Cl. 60-311.000.

Schuster, Hans K.; Heins, Jens-Peter; Gockel, Bernhard; and Schmidt, Holger, to Gessner & Co. GmbH. Measuring head for measuring the porosity of a moving strip. 4,672,841, 6-16-87, Cl. 73-38.000.

Schuster, Hans K.; Heins, Jens-Peter; Gockel, Bernhard; and Schmidt, Holger, to Gessner & Co. GmbH. Method and device for continuous measurement of porosity. 4,676,091, 6-30-87, Cl. 73-38.000.

Schuster, Hans-Karl. *See*—

Aumann, Gunther; Aigner, Helmar; and Schuster, Hans-Karl, 4,661,255, Cl. 210-491.000.

Schuster, Heinz; and Press, Gerd, to USM Corporation. Me...spensers, 4,639,155, 1-27-87, Cl. 401-1.000.

Schuster, Herbert. *See*—

Kinder, Reiner; Teubel, Johannes; Schuster, Herbert; and Fanshaw, Christine, 4,680,153, Cl. 264-44.000.

Schuster, Joachim. *See*—

Genschow, Henning; Heisel, Uwe; and Schuster, Joachim, 4,711,016, Cl. 29-568.000.

Schuster, John R.; Lee, Char Y.; and Weggel, Carl F., to FDX Patents Holding Company, N.V. Method and apparatus for distributing coolant in toroidal field coils. 4,657,723, 4-14-87, Cl. 376-146.000.

Schuster, Karl. *See*—

Hillenbrand, Bernhard; Huber, Wilhelm; Littwin, Burkhard; and Schuster, Karl, 4,634,935, Cl. 315-169.400.

Schuster, Kurt. *See*—

Dressler, Helmut; Engenhart, Peter; Jahnel, Klaus; Kochendorfer, Heinrich; Kuhn, Ulrich; Matthas, Karl H.; and Schuster, Kurt, 4,635,173, Cl. 362-294.000.

Schuster, Lorenz M. Glass and bottle tote. 4,681,225, 7-21-87, Cl. 206-426.000.

Schuster, Ludwig. *See*—

Buschmann, Ernst; Schuster, Ludwig; Goetz, Norbert; Pommer, Ernst-Heinrich; and Ammermann, Eberhard, 4,673,683, Cl. 514-317.000.

Degner, Dieter; Gramlich, Walter; Hoffmann, Werner; and Schuster, Ludwig, 4,654,167, Cl. 252-522.00R.

Schuster, Max, to Zahnradfabrik Friedrichshafen AG. Drive connection with a freewheel mechanism. 4,711,332, 12-8-87, Cl. 192-48.920.

Schuster, Randall. *See*—

Astle, Henry; VanderPol, Jerald; Schuster, Randall; and Linton, Terry B., 4,667,548, Cl. 82-4.00C.

Schuster, Richard L., to Manville Sales Corporation. Reinforced article carrier. 4,646,917, 3-3-87, Cl. 206-434.000.

Schuster, Richard L., to Manville Corporation. Carton with improved handle. 4,712,728, 12-15-87, Cl. 229-52.00B.

Schuster, Richard L.: *See*—
Wilson, Jerry F.; and Schuster, Richard L., 4,637,515, Cl. 206-434.000.

Schuster, Stanley E., to International Business Machines Corporation. ECL to FET interface circuit for field effect transistor arrays. 4,645,954, 2-24-87, Cl. 307-475.000.

Schuster, Stanley E.: *See*—
Chappell, Barbara A.; and Schuster, Stanley E., 4,697,108, Cl. 307-473.000.

Schuster, Thomas R.: *See*—
Makhlouf, Makhlouf M.; and Schuster, Thomas R., 4,652,277, Cl. 51-309.000.

Schuster, Werner: *See*—
Sommer, Karl; Heinz, Robert; Hettche, Albert; Perner, Johannes; Schuster, Werner; and Trieselt, Wolfgang, 4,695,397, Cl. 252-182.000.

Schuster, Wilhelm, to Allstar Verbrauchsguter GmbH. Exhauster nozzle. 4,677,705, 7-7-87, Cl. 15-398.000.

Schuster, Wilhelm: *See*—
Coesfeld, Dieter; Hugemann, Bernhard; Scondo, Ludwig; Schuster, Wilhelm; Schwabe, Hans D.; Stahl, Jurgen; and Stosser, Klaus, 4,658,644, Cl. 73-146.800.

Schutt, Karl: *See*—
Reichert, Ernst; and Schutt, Karl, 4,715,745, Cl. 405-262.000.

Schutt Manufacturing Co., Inc.: *See*—
Nimmons, Kenneth W., 4,633,531, Cl. 2-424.000.

Schutte, Herman: *See*—
Moelands, Adrianus P. M. M.; and Schutte, Herman, 4,689,740, Cl. 364-200.000.

Schutte, Ingrid: *See*—
Beutler, Hans-Otto; Schutte, Ingrid; and Schneider, Walter, 4,677,059, Cl. 435-25.000.

Schutte, Klaus; and Stockmann, Helmut, to Klockner-Humboldt-Deutz Aktiengesellschaft. Cone crusher. 4,651,933, 3-24-87, Cl. 241-34.000.

Schutten, Evert D.; and Verlijsdonk, Johannus G., to U.S. Philips Corporation. Luminescent screen and low-pressure mercury vapor discharge lamp provided with such a screen. 4,716,335, 12-29-87, Cl. 313-486.000.

Schutten, Evert D.; and Verlijsdonk, Johannus G., to U.S. Philips Corporation. Luminescent screen and low-pressure mercury vapor discharge lamp provided with such a screen. 4,716,336, 12-29-87, Cl. 313-486.000.

Schutten, Evert D.: *See*—
Huiskes, Cornelis; and Schutten, Evert D., 4,716,337, Cl. 313-487.000.

Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., to Eaton Corporation. Single phase to multiphase frequency multiplier. 4,706,174, 11-10-87, Cl. 363-9.000.

Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., to Eaton Corporation. Single phase to polyphase bridge-type frequency multiplier. 4,706,175, 11-10-87, Cl. 363-9.000.

Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., to Eaton Corporation. Bridge-type frequency multiplier. 4,706,183, 11-10-87, Cl. 363-157.000.

Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., to Eaton Corporation. Fractional frequency multiplier. 4,706,184, 11-10-87, Cl. 363-157.000.

Schutten, Herman P.: *See*—
Benjamin, James A.; Lade, Robert W.; and Schutten, Herman P., 4,635,084, Cl. 357-22.000.
Benjamin, James A.; Schutten, Herman P.; and Lade, Robert W., 4,670,764, Cl. 357-22.000.
Lade, Robert W.; Benjamin, James A.; and Schutten, Herman P., 4,642,665, Cl. 357-6.000.
Lade, Robert W.; Benjamin, James A.; and Schutten, Herman P., 4,675,979, Cl. 29-571.000.
Lade, Robert W.; Benjamin, James A.; and Schutten, Herman P., 4,675,980, Cl. 29-571.000.
Schachameyer, Steven R.; Benjamin, James A.; Pardee, John B.; Hoppie, Lyle O.; and Schutten, Herman P., 4,668,304, Cl. 148-1.500.

Schuttler, Edwin: *See*—
Schilling, Albert; Schuttler, Edwin; Schmekel, Karl-Wilhelm; and Rohde, Axel, 4,702,565, Cl. 350-531.000.

Schutz, Erwin: *See*—
Jekat, Herbert; Schutz, Erwin; and Stork, Kurt, 4,687,547, Cl. 159-3.000.

Schutz, Fabienne: *See*—
Staudach, Jean-Francois; Jung, Louis; Heitz, Christiane; Schott, Claire; Stoclet, Jean-Claude; and Schutz, Fabienne, 4,645,772, Cl. 514-280.000.

Schutz, Gunter: *See*—
Caspar, Hans-Peter; and Schutz, Gunter, 4,695,223, Cl. 415-90.000.

Schutz, Hans U.: *See*—
Back, Gerhard; Schutz, Hans U.; and Schlesinger, Ulrich, 4,678,851, Cl. 534-619.000.
Beffa, Fabio; and Schutz, Hans U., 4,710,198, Cl. 8-437.000.
Reinert, Gerhard; Schutz, Hans U.; and Back, Gerhard, 4,704,133, Cl. 8-442.000.

Schutz, Heinz-Dieter: *See*—
Langen, Hans; Schutz, Heinz-Dieter; Wernicke, Ubbo; Himmelmann, Wolfgang; and Renner, Gunter, 4,710,454, Cl. 430-546.000.

Schutz, Johann, to Schlumberger Messgerate GmbH. Circuit including a DC-FM phase locked loop. 4,682,124, 7-21-87, Cl. 332-19.000.

Schutz, Joseph D., to Intel Corporation. Bootstrap buffer. 4,649,300, 3-10-87, Cl. 307-482.000.

Schutz, Peter: *See*—
Breitfeld, Wolf; and Schutz, Peter, 4,660,311, Cl. 42-72.000.

Schutz, Ronald J.: *See*—
Heimann, Peter A.; Moran, Joseph M.; and Schutz, Ronald J., 4,680,084, Cl. 156-626.000.

Schutz, Udo. Drum of thermoplastic synthetic resin. 4,643,323, 2-17-87, Cl. 220-72.000.

Schutz, Udo. Apparatus for changing the mast of a sailboard. 4,700,649, 10-20-87, Cl. 114-90.000.

Schutz-Werke GmbH & Co. KG: *See*—
Namur, Marc, 4,640,211, Cl. 114-97.000.

Schutz, Willi; and Valle, Robert, to Sprecher & Schuh AG. Rotary isolating switch, especially encapsulated rotary isolating switch. 4,647,730, 3-3-87, Cl. 200-6.00R.

Schutzbach, Bernd: *See*—
Neumann-Henneberg, Wolf; Futterknecht, Kuno; Stengel, Gerhard; Haag, Emil; and Schutzbach, Bernd, 4,653,179, Cl. 29-622.000.

Schutze, Detlef-Ingo; and Wunderlich, Klaus, to Bayer Aktiengesellschaft. Process for preparing a thioindigo derivatives comprising cyclizing in a liquid mixture of an aluminium halide an alkali metal halide, and a carboxamide or sulfonamide. 4,652,660, 3-24-87, Cl. 549-56.000.

Schutze, Rainer, to Deutsche Forschungs. Connecting element for rod like members. 4,652,171, 3-24-87, Cl. 403-403.000.

Schutzle, Gunter: *See*—
Reichardt, Manfred; and Schutzle, Gunter, 4,639,053, Cl. 439-14.00R.
Reichardt, Manfred; and Schutzle, Gunter, 4,684,197, Cl. 439-404.000.

Schuurmans, Marinus F., to USM Corporation. Making belt loops and attaching them to articles of clothing. 4,706,585, 11-17-87, Cl. 112-121.270.

Schuyler, Keith C., Jr. Keel and method for making a keel for a plug type fishing lure. 4,671,006, 6-9-87, Cl. 43-42.480.

Schwaab, Konstantin, to Union Special Corporation. Presser foot with slidable plunger. 4,679,514, 7-14-87, Cl. 112-235.000.

Schwab, Allen: *See*—
Weiss, John, 4,660,828, Cl. 272-138.000.

Schwab, August, to Siemens Aktiengesellschaft. Magnet of a nuclear spin tomograph. 4,706,057, 11-10-87, Cl. 335-284.000.

Schwab, Carl; Odegaard, Oliver C.; and Tussosov, Wassil D., to ISC Cardion Electronics Corporation. Monopulse processing system. 4,689,623, 8-25-87, Cl. 342-39.000.

Schwab, Carl, to ISC Cardion Electronics, Inc. Method and apparatus for detecting microbursts. 4,712,108, 12-8-87, Cl. 342-26.000.

Schwab, Carl E., to ISC Cardion Electronics, Inc. ADF bearing and location for use with ASR and ASDE displays. 4,688,046, 8-18-87, Cl. 342-456.000.

Schwab, Carl M., Jr.; Robison, Clark E.; and Renfroe, James B., Jr., to Otis Engineering Corporation. Apparatus for enhanced oil recovery. 4,646,828, 3-3-87, Cl. 166-117.500.

Schwab, Dieter: *See*—
Funghini, Augusto; Schwab, Dieter; and Springer, Helmut, 4,648,837, Cl. 432-122.000.

Schwab, Egon; and Padar, Steve. Non-return valve for medical purposes in particular for balloon catheters. 4,710,168, 12-1-87, Cl. 604-99.000.

Schwab, Frederick C.: *See*—
Chung, Harold S.; Sampath, Krishnaswamy; and Schwab, Frederick C., 4,653,585, Cl. 166-275.000.
Kadash, Marjory A.; and Schwab, Frederick C., 4,714,658, Cl. 428-523.000.

Schwab, Richard: *See*—
Weiss, John, 4,660,828, Cl. 272-138.000.

Schwab, Wilfried; Durckheimer, Walter; Kirrstetter, Reiner; and Lattrell, Rudolf, to Hoechst Aktiengesellschaft. Process for the preparation of cephem compounds. 4,667,028, 5-19-87, Cl. 540-222.000.

Schwab, Wilfried: *See*—
Kirrstetter, Reiner; Durckheimer, Walter; Lattrell, Rudolf; and Schwab, Wilfried, 4,692,516, Cl. 540-222.000.
Lattrell, Rudolf; Kirrstetter, Reiner; Schwab, Wilfried; Durckheimer, Walter; and Seibert, Gerhard, 4,647,556, Cl. 514-206.000.

Schwabe GmbH: *See*—
Albeck, Bernhard; and Goedicke, Siegfried, 4,711,019, Cl. 29-609.000.

Schwabe, Hans D.: *See*—
Coesfeld, Dieter; Hugemann, Bernhard; Scondo, Ludwig; Schuster, Wilhelm; Schwabe, Hans D.; Stahl, Jurgen; and Stosser, Klaus, 4,658,644, Cl. 73-146.800.

Schwabe, Peter; and Voigt, Reiner, to Bayer Aktiengesellschaft. Dust-free alginate impression materials. 4,695,322, 9-22-87, Cl. 106-35.000.

Schwabe, Peter: *See*—
Kooke, Dieter; and Schwabe, Peter, 4,670,053, Cl. 106-35.000.

Schwabe, Ulrich: *See*—
Neppl, Franz; Schwabe, Ulrich; and Hieber, Konrad, 4,640,844, Cl. 427-38.000.

Schwaber, James S.: *See*—
Jansson, Peter A.; Rogers, Wade T.; and Schwaber, James S., 4,672,559, Cl. 364-525.000.
Jansson, Peter A.; Rogers, Wade T.; and Schwaber, James S., 4,673,988, Cl. 358-280.000.
Schwable, Rainer: *See*—
Hassenpflug, Wolfgang; and Schwable, Rainer, 4,702,106, Cl. 73-181.000.
Schwader, William G.: *See*—
Foley, Donald E.; Gipp, Gregory H.; Schwader, William G.; Sells, Craig L.; Smitkamp, James A.; Stahl, Alan L.; and Szentes, John F., 4,635,739, Cl. 177-45.000.
Schwaba, Karl: *See*—
Kriegner, Othmar; Lang, Franz; Holleis, Gunter; Schwaba, Karl; and Granitz, Fritz, 4,687,141, Cl. 239-520.000.
Schwaiger, Ernst: *See*—
Mittereger, Erich; and Schwaiger, Ernst, 4,708,632, Cl. 425-556.000.
Schwaiger, Kurt: *See*—
Heuwieser, Erwin; and Schwaiger, Kurt, 4,694,207, Cl. 307-571.000.
Schwaiger, Max: *See*—
Rieder, Heinz; Schwaiger, Max; and Swatek, Harald, 4,636,079, Cl. 356-374.000.
Rieder, Heinz; and Schwaiger, Max, 4,695,720, Cl. 250-231.0SE.
Rieder, Heinz; and Schwaiger, Max, 4,716,292, Cl. 250-237.00G.
Schwaighofer, Helmut: *See*—
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,678,168, Cl. 266-196.000.
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,697,274, Cl. 373-79.000.
Schwalb, Horst, to Dynaflair Corporation Canada Inc. Door lock structure. 4,694,669, 9-22-87, Cl. 70-100.000.
Schwalb, Max, to Didier-Werke AG. Air-cooled combustion chamber wall. 4,671,191, 6-9-87, Cl. 110-336.000.
Schwalb, Stuart F.: *See*—
Kabb, Harold I.; Flint, John R.; Videlock, Gary B.; Nuazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J.; and Friedrich, Paul H., 4,699,504, Cl. 355-20.000.
Schwalbach, Manfred: *See*—
Ernst, Helmut; Breser, Alfred; Schwalbach, Manfred; Will, Karl-Heinz; Cameron, Alan B.; and Bates, Peter C., 4,680,009, Cl. 432-137.000.
Schwalge, Barbara A. M.: *See*—
Schirmer, Ulrich; Karbach, Stefan; Pommer, Ernst-Heinrich; Ammermann, Eberhard; Steglich, Wolfgang; Schwalge, Barbara A. M.; and Anke, Timm, 4,709,078, Cl. 560-060.000.
Schwall, Robert E., to International Business Machines Corporation. Superconductive magnet having shim coils and quench protection circuits. 4,689,707, 8-25-87, Cl. 361-19.000.
Schwalm, Hans-Werner: *See*—
Grecksch, Hans; Schwalm, Hans-Werner; and Thomalla, Johannes, 4,641,740, Cl. 198-487.100.
Schwamborn, Michael; Kuhle, Engelbert; Klauke, Erich; Euc, Ludwig; Schmidt, Robert R.; Santel, Hans-Joachim; and Hanssler, Gerd, to Bayer Aktiengesellschaft. Methods of combatting fungi employing 2,4-diamino-6-halogeno-5-alkylthio-pyrimidines. 4,640,923, 2-3-87, Cl. 514-272.000.
Schwan-Stabilo Schwanhausser GmbH & Co.: *See*—
Hofmann, Hans J., 4,640,636, Cl. 401-96.000.
von Kleinsorgen, Reinhard, 4,669,492, Cl. 132-79.00C.
von Kleinsorgen, Reinhard, 4,714,085, Cl. 132-88.700.
Schwandt, Gregory J.: *See*—
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Schwarz, Hans, to BBC Brown, Boveri & Company, Limited. Externally adjustable axial location for a vane carrier in a turbine. 4,650,396, 3-17-87, Cl. 415-128.000.
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Schweiker, Werner, to Hermann Behr & Sohn GmbH & Co. Program-controlled industry robot in particular laquering (or painting) robot. 4,693,664, 9-15-87, Cl. 414-735.000.
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Chiesa, Alan F.; Medendorp, LeRoy E.; Perry, Edward C.; and Schweikert, John F., 4,671,107, Cl. 73-118.200.
Schweikert, Willi, to Carl Freudenberg, Firma. Air spring. 4,633,761, 1-6-87, Cl. 91-433.000.
Schweikert, Willi. *See*—
Bohnert, Gerhard; Schweikert, Willi; and Ticks, Gerd-Heinz, 4,678,203, Cl. 280-707.000.
Schwemfurter, Friedrich. Regenerative pump with force equalization. 4,678,395, 7-7-87, Cl. 415-53.01T.
Schweitzer, Edmund O., Jr. Test point mounted voltage monitoring system. 4,641,220, 2-3-87, Cl. 361-187.000.
Schweitzer, Edmund O., Jr. Clamp mechanism for power line mounted monitoring device. 4,646,006, 2-24-87, Cl. 324-127.000.
Schweitzer, Edmund O., Jr. Fault indicator having trip inhibit circuit. 4,686,518, 8-11-87, Cl. 340-664.000.
Schweitzer, Edmund O., Jr. Surge detector having distributed line inductance pickup. 4,706,016, 11-10-87, Cl. 324-102.000.
Schweitzer, Edmund O., Jr. Voltage loss detector. 4,714,916, 12-22-87, Cl. 340-664.000.
Schweitzer, Karl; Nitschmann, Karl; and Dolata, Hans, to Andreas Stihl. Lubricating-oil pump for a motor-driven apparatus. 4,636,147, 1-13-87, Cl. 417-214.000.
Schweitzer, Reinhard. *See*—
Heller, Wilhelm; Weber, Lutz; Schweitzer, Reinhard; and Flugge, Jurgen, 4,659,398, Cl. 148-12.00R.
Schweitzer, Erich. *See*—
Muller, Rudolf; Lange, Eckhard; and Schweitzer, Erich, 4,705,646, Cl. 73-23.000.
Schweitzer, Ernst. *See*—
Gallay, Jean-Jacques; and Schweitzer, Ernst, 4,649,149, Cl. 514-367.000.
Schweitzer, Martin F. Adjustable shelving system. 4,656,952, 4-14-87, Cl. 108-111.000.
Schweitzer, Reinhard. *See*—
Burge, Theodor A.; and Schweitzer, Reinhard, 4,686,252, Cl. 524-3.000.
Schweitzer, Russell J., to Abbott Laboratories. Apparatus and method for delivering secondary fluids to a patient using an intravenous administration set feeding a primary fluid. 4,685,910, 8-11-87, Cl. 604-218.000.
Schweizerische Eidgenossenschaft vertreten durch die Eidg. Munitionsfabrik Altdorf der Gruppe fur Rustungsdienste. *See*—
Aschwanden, Paul; and Hodler, Robert, 4,699,063, Cl. 102-498.000.
Schwelling, Hermann. Channel press. 4,651,610, 3-24-87, Cl. 83-636.000.
Schwelm, Hans, to Hydrolux S.a.r.l. Adjustable throttle valve. 4,662,600, 5-5-87, Cl. 251-30.030.
Schwelm, Hans, to Hydrolux S.a.r.l. Hydraulic control block. 4,711,267, 12-8-87, Cl. 137-596.150.

Schwemmer, Leonard J.: *See*—
Thorn, Richard P.; and Schwemmer, Leonard J., 4,706,946, Cl. 267-292.000.
Schwemmer, Martin: *See*—
Bors, Hans; Egger, Peter; Gotz, Albert; and Schwemmer, Martin, 4,672,705, Cl. 8-151.000.
Schwend, Fred N.: *See*—
McNeill, Samuel J., 4,653,764, Cl. 280-33.99C.
Schwendemann, Kenneth L., McCracken, Oliver W., Mondon, Cary G., and Wortham, Larry C., to Otis Engineering Corporation. Well valve control system. 4,636,934, 1-13-87, Cl. 364-132.000.
Schwendemann, Kenneth L.: *See*—
Gano, John C.; Schwendemann, Kenneth L.; Noack, Timothy J.; and Godfrey, Craig W., 4,702,320, Cl. 166-343.000.
Schwendemann, Volker: *See*—
Plath, Peter; Rohr, Wolfgang; Schwendemann, Volker; and Wuerzer, Bruno, 4,636,246, Cl. 71-92.000.
Seufert, Walter; Goetz, Norbert; Becker, Rainer; and Schwendemann, Volker, 4,658,071, Cl. 568-903.000.
Schwender, Charles F.; and Dodd, John H., to Ortho Pharmaceutical Corporation. Substituted thiacycloalkeno (3,2-b) pyridines and pharmaceutical compositions and method of use. 4,705,785, 11-10-87, Cl. 514-211.000.
Schwender, Charles F.: *See*—
Bandurco, Victor T.; Bell, Stanley C.; Falotico, Robert; Schwender, Charles F.; and Tobia, Alfonso J., 4,668,787, Cl. 544-286.000.
Bandurco, Victor T.; Bell, Stanley C.; Dodd, John H.; Falotico, Robert; Schwender, Charles F.; and Tobia, Alfonso J., 4,672,116, Cl. 544-286.000.
Bandurco, Victor T.; Schwender, Charle F.; Falotico, Robert; and Tobia, Alfonso J., 4,711,883, Cl. 514-253.000.
Schwengers, Dieter, to Pfeifer & Langen. Gluco-oligosaccharice mixture and a process for its manufacture. 4,649,058, 3-10-87, Cl. 426-658.000.
Schwengers, Dieter, to Pfeifer & Langen. Process for the manufacture of iso-malto-oligosaccharide monovalent haptens. 4,673,643, 6-16-87, Cl. 435-97.000.
Schwengers, Dieter; and Benecke, Herta, to Pfeifer & Langen. Processes for producing leucrose. 4,693,974, 9-15-87, Cl. 435-97.000.
Schwenke, Dieter: *See*—
Blidung, Otto; and Schwenke, Dieter, 4,650,453, Cl. 493-239.000.
Schwenke, Marvin J.: *See*—
Byal, Mark; Leo, Francis G.; and Schwenke, Marvin J., 4,670,834, Cl. 364-186.000.
Schwenkel, Willi, to Elring Dichtungswerke GmbH. Cylinder head gasket. 4,669,740, 6-2-87, Cl. 277-235.00B.
Schwenninger, Ronald L.; and Matesa, Joseph M., to PPG Industries, Inc. Vacuum refining of glassy materials with controlled foaming. 4,704,153, 11-3-87, Cl. 65-134.000.
Schwenzer, Alfred F.: *See*—
Voltmer, Helmut; and Schwenzer, Alfred F., 4,647,333, Cl. 156-351.000.
Voltmer, Helmut; Schwenzer, Alfred F.; and Mazur, Edward J., 4,668,327, Cl. 156-477.100.
Schwenzer, Michael; Eskam, Armin; Simon, Walter; and Becker, Wilfried, to Rheinmetall GmbH. Self-deploying stabilizing-vane assembly for projectile. 4,693,434, 9-15-87, Cl. 244-328.000.
Schwenzer, Michael: *See*—
Reinelt, Karlheinz; and Schwenzer, Michael, 4,702,167, Cl. 102-282.000.
Synofzik, Reinhard; Schwenzer, Michael; and Wallow, Peter, 4,671,179, Cl. 102-430.000.
Schwenzer, Reinhard; and Cohanciuc, Victor, to GAS Gesellschaft fur Antriebs-und Steuerungs-technik mbH & Co. KG. Actuating magnet with enlarged plunger pole piece. 4,658,231, 4-14-87, Cl. 335-261.000.
Schwenzer, Reinhard: *See*—
Goedecke, Wolf-Dieter; Schwenzer, Reinhard; and Huber, Ralf, 4,656,881, Cl. 74-110.000.
Schwerdt, Friedrich: *See*—
Bahrle, Dieter; Schwerdt, Friedrich; and Stehling, Jurgen H., 4,705,592, Cl. 156-630.000.
Schwerdt, Friedrich W.: *See*—
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Schwerdt, Kurt R.; and Levine, Gerald B., to Raytheon Company. Pseudo-raster weather display apparatus. 4,678,969, 7-7-87, Cl. 315-382.000.
Schwerdtle, Friedhelm: *See*—
Bieringer, Hermann; and Schwerdtle, Friedhelm, 4,692,181, Cl. 71-86.000.
Schweri, Raphael J.: *See*—
Elmore, Jimmy D.; and Schweri, Raphael J., 4,689,371, Cl. 525-374.000.
Schwerin, Gunther: *See*—
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Hofer, Friedrich-Wilhelm; and Schwerin, Gunther, 4,660,380, Cl. 60-422.000.
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Schwering, Felix: *See*—
Horn, Robert E.; Jacobs, Harold, deceased; and Schwering, Felix, 4,644,363, Cl. 343-785.000.
Schwertner, Dan R.: *See*—
Poe, Frank E., Jr.; Schwertner, Dan R.; Dunn, Cooper L.; and Whitby, Melvyn F., 4,715,456, Cl. 175-423.000.
Schwertner, Gary T.: *See*—
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Schweyen, Paul R., to Carborundum Abrasives Company. Tearable flexible coated abrasive product. 4,663,223, 5-5-87, Cl. 428-240.000.
Schwickert, Manfred J., and Lemmens, Pierre L., to Engetra S.A. Flue gas injection device in a cooling tower. 4,673,421, 6-16-87, Cl. 55-238.000.
Schwiers, Hans-Georg: *See*—
Schoening, Josef; and Schwiers, Hans-Georg, 4,643,872, Cl. 376-296.000.
Schwieters, Clarence R.: *See*—
Luoma, Richard W.; Reidenbach, John R.; and Schwieters, Clarence R., 4,700,246, Cl. 360-98.000.
Schwinberg, Paul B.: *See*—
Vail, William B., III; and Schwinberg, Paul B., 4,656,422, Cl. 324-303.000.
Schwind, Richard J.; Bart, Joseph; and Wollar, Burnell, to Phillips Plastics Corporation. Fastener with plastic U-nut. 4,674,931, 6-23-87, Cl. 411-175.000.
Schwindeman, James A., to PPG Industries, Inc. Imidazolidinone imines. 4,659,836, 4-21-87, Cl. 548-133.000.
Schwindeman, James A., to PPG Industries, Inc. Herbicidally active isoxazolyl-imidazolidinone derivatives. 4,707,180, 11-17-87, Cl. 71-92.000.
Schwindt, Jurgen: *See*—
Stahl, Hans G.; Hohlein, Peter; Traenckner, Hans-Joachim; Fleiter, Lothar; and Schwindt, Jurgen, 4,684,691, Cl. 524-534.000.
Schwing, Friedrich, to Friedrich Wilh. Schwing GmbH. Two-cylinder viscous liquid pump with pipe switch. 4,681,022, 7-21-87, Cl. 91-471.000.
Schwing, Gregory W.: *See*—
Chen, Chi-wan; and Schwing, Gregory W., 4,680,704, Cl. 71-92.000.
Schwingenschuh, Martin; Meschan, Franz; and Ribitsch, Gert, to Siemens Aktiengesellschaft. Electrical components having high strength given stressing due to temperature change and due to surge currents, particularly a varistor. 4,714,910, 12-22-87, Cl. 338-21.00.
Schwinghammer, Reinhard: *See*—
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Schwinn Bicycle Company: *See*—
Brilando, Frank P., 4,712,789, Cl. 272-73.000.
Hughes, Bradley E., 4,662,677, Cl. 297-195.000.
Liu, King, 4,639,240, Cl. 474-144.000.
Mueller, Clifford F., 4,666,175, Cl. 280-291.000.
Szymski, Eugene J., 4,712,790, Cl. 272-73.000.
Schwinn, Horst; Heimburger, Norbert; Kumpe, Gerhard; and Herchenhan, Bernd, to Hoechst Aktiengesellschaft. Process for the manufacture of the cold insoluble globulin and pharmaceutical preparation containing it. 4,670,544, 6-2-87, Cl. 530-392.000.
Schwirtlich, Ingo; and Woditsch, Peter, to Bayer Aktiengesellschaft. Process and apparatus for producing semi-conductor foils. 4,670,066, 6-2-87, Cl. 156-608.000.
Schwitters, Wayne J., to WIC, Inc. Apparatus for defoliating sugar beets and the like utilizing flexible flails with rigid cutting members at the free ends thereof. 4,691,506, 9-8-87, Cl. 56-121.400.
Schwitters, Wayne J., to WIC, Inc. Polyurethane flail for use in defoliating sugar beets and the like. 4,691,507, 9-8-87, Cl. 56-121.400.
Schwitters, Wayne J., to Wic, Inc. Beet harvester with elevated, transverse discharge conveyor. 4,699,218, 10-13-87, Cl. 171-23.000.
Schwob, Pierre; and Bontoux, Daniel, to SEB S.A. Thermal cutout. 4,673,909, 6-16-87, Cl. 337-407.000.
Schwochert, Hans-Joachim: *See*—
Giese, Peter; Holzmann, Rainer; Schwochert, Hans-Joachim; and Thomas, Alfred, 4,699,585, Cl. 425-522.000.
Schwoebel, Gerd: *See*—
Brandt, Hermann; Fischer, Hermann; Dreher, Hermann; Heil, Eduard; Hambrecht, Juergen; Naarmann, Herbert; Echte, Adolf; Gausepohl, Hermann; Siebel, Peter; Swoboda, Johann; Schwabel, Gerd; and Nikles, Albert, 4,696,996, Cl. 528-214.000.
Schwuchow, Klaus P. R. Chest for the storage of light sensitive film material or paper. 4,650,987, 3-17-87, Cl. 250-215.000.
Schwyter, Anton; and Amsler, Heinrich, to Stopinc Aktiengesellschaft. Pipe seal connection between confronting ends of two coaxial relatively rotatable pipes. 4,659,118, 4-21-87, Cl. 285-55.000.
Schylander, Eric C., to U.S. Philips Corporation. System for reproducing information from an optically readable record carrier, apparatus for use in said system, and record carrier for use in said system. 4,675,857, 6-23-87, Cl. 369-59.000.
Sciacero, James R.; and Pardee, Douglas L., to Sanders Associates Inc. Method and apparatus for displaying multiple images in overlapping windows. 4,710,767, 12-1-87, Cl. 340-799.000.
Sciaky, Mario; and Cazes, Roland, to Sciaky S.A. Installation for determining the spatial coordinates of a point on a piece, in particular for controlling a plant such as a welding plant for the car bodies of motor vehicles. 4,651,283, 3-17-87, Cl. 364-477.000.
Sciaky, Mario; Cazes, Roland; and Sayegh, Georges, to Sciaky S.A. Multi-point laser beam welding installation for vehicle bodies. 4,654,505, 3-31-87, Cl. 219-121.0LC.
Sciaky, Mario; Jablonski, Pierre; Marianne, Jean-Jacques; and Leonard, Michel, to Sciaky S.A. Installation for assembling a number of body

models of a single type of motor vehicle. 4,675,969, 6-30-87, Cl. 29-281.400.
cisky S.A.: *See*—
Dard, Philippe, 4,642,518, Cl. 315-1.000.
Sciaky, Mario; and Cazes, Roland, 4,651,283, Cl. 364-477.000.
Sciaky, Mario; Cazes, Roland; and Sayegh, Georges, 4,654,505, Cl. 219-121.0LC.
Sciaky, Mario; Jablonski, Pierre; Marianne, Jean-Jacques; and Leonard, Michel, 4,675,969, Cl. 29-281.400.
alpi, Leonard J., to Hoffmann-La Roche Inc. Process for preparing fat-soluble vitamin active beadlets. 4,670,247, 6-2-87, Cl. 424-484.000.
amanda, Robert J.; and Miller, William R., to American Sterilizer Company. Imaging apparatus. 4,652,739, 3-24-87, Cl. 250-213.00R.
araffa, Michael A.: *See*—
Grube, Herbert E.; Sciaraffa, Michael A.; Kaspar, Mark L.; and Kaczmarzyk, Leonard M., 4,655,761, Cl. 604-389.000.
aron, Boris: *See*—
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zimore, Donald: *See*—
Scidmore, Fred A.; Scidmore, Mamie; and Scidmore, Donald, 4,674,651, Cl. 221-3.000.
dmore, Fred A.; Scidmore, Mamie; and Scidmore, Donald. Pill dispenser. 4,674,651, 6-23-87, Cl. 221-3.000.
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Scidmore, Fred A.; Scidmore, Mamie; and Scidmore, Donald, 4,674,651, Cl. 221-3.000.
ence Applications International Corporation: *See*—
Cross, Marshall W., 4,697,191, Cl. 343-809.000.
Ondsky, Irving B., 4,664,035, Cl. 102-493.000.
True, Charles W., III; and Brady, John K., 4,715,046, Cl. 375-61.000.
Yengst, William C., 4,715,283, Cl. 102-401.000.
nce & Creative Co., Ltd.: *See*—
Ikezaki, Yasuo; Matsuoka, Tadashi; and Mitani, Kazuyuki, 4,712,334, Cl. 51-262.00A.
nce Research Center, Inc.: *See*—
Brewer, John H.; and Foster, Terry L., 4,696,907, Cl. 436-513.000.
ntific-Atlanta, Inc.: *See*—
Farmer, James O., 4,636,852, Cl. 358-120.000.
Farmer, James O., 4,691,353, Cl. 380-15.000.
Gray, James S.; Chamberlin, James W.; McBride, Alan L.; and Schreiner, Peter G., III, 4,660,196, Cl. 370-109.000.
Lowry, John D.; and Lucas, Keith, 4,642,688, Cl. 380-11.000.
Lucas, Keith, 4,652,903, Cl. 358-11.000.
Mobley, Joseph G.; and Womble, David P., 4,698,598, Cl. 329-134.000.
Mobley, Joseph G., II, 4,641,181, Cl. 358-36.000.
Rhodes, Charles; and Lowry, John, 4,651,208, Cl. 358-140.000.
van Rassel, William F., 4,697,277, Cl. 375-116.000.
West, Lamar E., Jr., 4,692,919, Cl. 370-96.000.
ntific Component System, Inc.: *See*—
McNair, Rhett, 4,704,664, Cl. 362-225.000.
ntific Component Systems, Inc.: *See*—
McNair, Rhett, 4,641,228, Cl. 362-382.000.
McNair, Rhett, 4,698,930, Cl. 40-361.000.
ntific Drilling International: *See*—
Moll, Helmut; and Ritchie, Roger E., 4,649,344, Cl. 324-221.000.
Moll, Helmut, 4,694,439, Cl. 367-83.000.
eo, David E., 4,715,022, Cl. 367-83.000.
ntific Ecology Group, Inc., The: *See*—
Picker, Franck, 4,685,391, Cl. 100-242.000.
ntific Micro Systems, Inc.: *See*—
Dawson, Daniel A., 4,663,707, Cl. 364-200.000.
ntific Pharmaceuticals, Inc.: *See*—
Orlowski, Jan A.; and Butler, David V., 4,648,845, Cl. 433-217.100.
ntific Process & Research, Inc.: *See*—
Klein, Imrich, 4,637,790, Cl. 425-208.000.
ntific Research Foundation, The: *See*—
Labor, Harry Z., 4,674,477, Cl. 126-443.000.
ntific Systems, Inc.: *See*—
Stone, Stanley A., 4,713,974, Cl. 73-864.230.
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s, Donald R.; and Sprague, Robert A., to Xerox Corporation. er cavity optical system for stabilizing the beam from a phase ed multi-emitter broad emitter laser. 4,656,641, 4-7-87, Cl. 03.000.
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, Donald R.; and Worland, D. Philip, to Spectra Diode Laborato- Inc. Fiberoptic coupling system for phased-array semiconductor s. 4,688,884, 8-25-87, Cl. 350-96.150.
, Donald R.; Cross, Peter; and Harnagel, Gary L., to Spectra le Laboratories, Inc. Stacked diode laser array assembly. 6,568, 12-29-87, Cl. 372-36.000.
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rnham, Robert D.; Paoli, Thomas L.; Scifres, Donald R.; and Streifer, William, 4,694,459, Cl. 372-45.000.
James, to Phillips Petroleum Company. Apparatus and method eeding solid materials to a high pressure vessel. 4,695,214, 87, Cl. 414-221.000.
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rber, Hans; and Reber, Markus, 4,689,534, Cl. 318-305.000.
Sciortino, Giacomo, to Carl Freudenberg, Firma. Engine mount. 4,638,981, 1-27-87, Cl. 267-8.00R.
Sciortino, Giacomo, to Carl Freudenberg, Firma. Engine mount. 4,664,360, 5-12-87, Cl. 267-8.00R.
Sciortino, Giacomo: *See*—
Hofmann, Manfred; and Sciortino, Giacomo, 4,643,405, Cl. 267-8.00R.
Sciortino, Ronald R. Ice shaving machine with stabilization means. 4,655,403, 4-7-87, Cl. 241-92.000.
Scipar, Inc.: *See*—
Cozad, C. Paul, 4,644,895, Cl. 116-200.000.
Scipione, Donald S.: *See*—
Abraham, Joseph N.; and Scipione, Donald S., 4,639,875, Cl. 364-479.000.
Scism, Bruce T. Plant basket. 4,646,469, 3-3-87, Cl. 47-67.000.
Sciulli, Francis J.: *See*—
Antoszewski, Richard S.; Falise, F. Ronald; Sciulli, Francis J.; and Toto, Gregory M., 4,670,974, Cl. 29-701.000.
Sciulli, Frank J.: *See*—
Antoszewski, Richard S.; Sciulli, Frank J.; Taft, Jeffrey D.; and Clements, Jack W., 4,652,133, Cl. 356-376.000.
Sciuto, George J., to Emerson Electric Co. Filter drier. 4,617,881, 1-20-87, Cl. 210-689.000.
Scivally, Jesse F.: *See*—
Miller, John F.; Scivally, Jesse F.; and Smolley, Robert B., Jr., 4,651,764, Cl. 137-81.100.
Sclater, Alexander; Cunningham, Wallace; and Green, Graham, to Proctor & Schwartz, Limited. Stenter frame cup chain assembly. 4,674,159, 6-23-87, Cl. 26-93.000.
Sclavos, S.p.A.: *See*—
Berreni, Rodolfo; Tarli, Paolo; and Berti, Brunilde, 4,643,974, Cl. 435-287.000.
Casati, Paolo; and Fugantt, Claudio, 4,664,852, Cl. 260-501.130.
Fabrizi, Paolo; Provvedi, Alessandro; and Tarli, Paolo, 4,666,864, Cl. 436-516.000.
Oliviert, Roberto; Bianchi, Giancarlo E.; Fascetti, Eugenio; and Centini, Felice, 4,666,840, Cl. 435-106.000.
Porro, Massimo; and Costantino, Paolo, 4,711,779, Cl. 424-92.000.
Tabacco, Alessandro; Moda, Edvardo; and Tarli, Paolo, 4,703,015, Cl. 436-74.000.
Sclufer, Nicholas. Magnethoydrodynamic electrical power generation. 4,716,324, 12-29-87, Cl. 310-11.000.
SCM Corporation: *See*—
Adams, Donald T.; and Gray, R. William, 4,655,620, Cl. 400-63.000.
Barnes, Janette M.; and Steinke, James A., 4,689,235, Cl. 426-89.000.
Bonsack, James P.; and Robinson, Michael, 4,652,434, Cl. 423-155.000.
Canova, Levy A.; DePasquale, Ralph J.; and Wilson, Michael E., 4,649,063, Cl. 427-230.000.
Curley, Charles M., 4,678,351, Cl. 400-64.000.
DePasquale, Ralph J.; Evans, James M.; and Kremer, Paul W., 4,645,846, Cl. 556-419.000.
DePasquale, Ralph J.; and Wilson, Michael E., 4,648,904, Cl. 106-2.000.
Lindstrom, Robert O., 4,658,980, Cl. 220-214.000.
Player, Kenneth W.; and Wilson, Lonny L., 4,643,907, Cl. 426-580.000.
Turpin, Edward T.; and Thrane, David T., 4,639,299, Cl. 204-181.700.
SCM Metal Products, Inc.: *See*—
Hashiguchi, Don H.; and Klar, Erhard, 4,707,184, Cl. 75-228.000.
Scobie, William B., and Wagberg, Michael L., to Keystone International, Inc. Fireproof valve assembly and valve element for use therein. 4,648,418, 3-10-87, Cl. 137-67.000.
Scobie, William B.; and Wagberg, Michael L., to Keystone International, Inc. Fireproof valve assembly and seal element for use therein. 4,649,949, 3-17-87, Cl. 137-67.000.
Scobie, William B.; and Wagberg, Michael L., to Keystone International, Inc. Fire-safe ventilation valve. 4,651,763, 3-24-87, Cl. 137-13.000.
Scobie, William B.; and Dodds, Dick R., to Keystone International, Inc. Apparatus for fixing the position of a valve element shaft in a bore. 4,659,064, 4-21-87, Cl. 251-214.000.
Scobie, William B.; and Wagberg, Michael L., to Keystone International, Inc. Disk/stem connection apparatus for butterfly valve. 4,682,758, 7-28-87, Cl. 251-84.000.
Scobie, William B.; and Yohner, Paul A., to Keystone International, Inc. Butterfly valve construction having a composite seat. 4,685,611, 8-11-87, Cl. 251-306.000.
Scoboria, Raymond, to O.E.M. Technical Sales, Inc. Flexible joint for pipes. 4,641,861, 2-10-87, Cl. 285-39.000.
Scocozza, Victor: *See*—
Liotto, Donna; and Scocozza, Victor, 4,644,858, Cl. 99-449.000.
Scoggin, Steven C.: *See*—
Quante, Jeffrey B., III; Scoggin, Steven C.; Maxwell, Dennis L.; Rosenkoetter, Marvin W.; and Ferencik, James J., 4,709,659, Cl. 109-21.500.
Scoggins, David H.: *See*—
Palmer, Roy A., Jr.; Scoggins, David H.; and Owen, Thomas N., 4,700,296, Cl. 364-401.000.
Scoggins, Lacey E.: *See*—
Ticszen, Dale O.; and Scoggins, Lacey E., 4,656,231, Cl. 525-537.000.

Scolari, John E., Warner, Robert T.; and Deavenport, Joe E., to Life Light Systems. Toy light sword. 4,678,450, 7-7-87, Cl. 446-405.000.
Scolastico, Carlo; and Troncom, Giovanni, to Neopharmed SpA. Diacyl derivatives of glycerylphosphorylcholine, their preparation, and antihyperlipidemic compositions. 4,699,901, 10-13-87, Cl. 514-77.000.
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Hoffman, William F.; Smith, Robert L.; and Scolnick, Edward. 4,668,699, Cl. 514-460.000.
Scolnick, Edward M.: *See*—
Friedman, Arthur; Lehman, E. Dale; McAleer, William J.; Schaefer, Ted F.; Scolnick, Edward M.; and Wampler, D. Eugene. 4,707,542, Cl. 530-371.000.
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Scomas AB: *See*—
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Scondo, Ludwig: *See*—
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Scopas Technology Company, Inc., The: *See*—
Deffeves, Kenneth S.; and Rosenblatt, Aaron A., 4,683,318, Cl. 556-173.000.
Rosenblatt, David H.; Rosenblatt, Aaron A.; and Knapp, Joseph A., 4,631,739, Cl. 422-37.000.
Scopatz, Stephen D., to Pennwalt Corporation. Method and apparatus for grading non-orienting articles. 4,645,080, 2-24-87, Cl. 209-558.000.
Scopatz, Stephen D.: *See*—
Brown, Ian A.; McMahon, Dennis R.; Rosas, Robin R.; Scopatz, Stephen D.; and Wind, Karen L., 4,687,107, Cl. 209-556.000.
Scopes, David I. C.: *See*—
Knight, David J.; Scopes, David I. C.; Storer, Richard; and Holman, Stuart, 4,690,917, Cl. 514-23.000.
Scorer, Michael: *See*—
Hunter, Ian; Mason, Graham; and Scorer, Michael, 4,673,298, Cl. 374-122.000.
Scortech Mech. Ltd.: *See*—
Newman, Geoffrey C. S.; Pilkington, Andrew L.; and Winch, Kenneth H., 4,710,129, Cl. 434-55.000.
Scosche Industries, Inc.: *See*—
Putnam, Rob R., 4,660,789, Cl. 248-27.300.
Scotese, Arthur: *See*—
Huang, Shih L.; Scotese, Arthur; Libeskind, Mark; and Gause, Lee W., 4,636,638, Cl. 250-231.00R.
Scotese, Michael J.: *See*—
Erker, James W.; Scotese, Michael J.; and Stotts, Jay B., 4,711,614, Cl. 414-641.000.
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Kelly, David J.; and Cacciatore, Paul J., 4,656,196, Cl. 521-52.000.
Kelly, David J.; and Cacciatore, Paul J., 4,670,477, Cl. 521-52.000.
Scott, A. Carlisle; Clayton, Jan E.; and Garnier, Jacques, to Teknowledge, Incorporated, and Compagnie Generale de Geophysique. Intelligent assistant for using and operating computer system capabilities to solve problems. 4,713,775, 12-15-87, Cl. 364-513.000.
Scott, A. Carlisle: *See*—
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Scott, Alan. Rectangular wooden receptacle. 4,703,866, 11-3-87, Cl. 217-88.000.
Scott, Andrew M.: *See*—
Westerman, David W. B.; and Scott, Andrew M., 4,693,807, Cl. 208-108.000.
Scott, Anthony W., to Helmet Sound, Inc. Speaker mounting for lined helmet. 4,636,592, 1-13-87, Cl. 381-187.000.
Scott Badar Co., Ltd.: *See*—
Phillips, Cecil L., 4,702,057, Cl. 52-514.000.
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Parker, Robert G., 4,661,548, Cl. 524-204.000.
Phillips, Cecil L., 4,644,722, Cl. 52-514.000.
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Scott, Bentley N., to Texas Instruments Incorporated. Stabilized microwave varactor. 4,642,580, 2-10-87, Cl. 331-117.00D.
Scott, Bentley N., to Texas Instruments Incorporated. Microwave receiver. 4,677,691, 6-30-87, Cl. 455-318.000.
Scott, Bentley N.; Porter, Vernon R.; and Shortes, Samuel R., to Technology Network International, Inc. Cartridge and target device for markmanship training. 4,678,437, 7-7-87, Cl. 434-21.000.
Scott, Blayney: *See*—
Carter, Stanley D.; and Scott, Blayney, 4,688,643, Cl. 169-33.000.
Scott, Brian J.: *See*—
Pitt, Gilles D.; Scott, Brian J.; Verrelis, Michael V.; Hancock, Nicholas K.; and Extance, Phillip, 4,672,216, Cl. 250-574.000.
Scott, Brian L., and Newell, John M., to Scott Instruments Company. Method for signal processing. 4,672,667, 6-9-87, Cl. 381-41.000.
Scott, Bruce A.: *See*—
Jasinski, Joseph M.; Meyerson, Bernard S.; and Scott, Bruce A., 4,684,542, Cl. 437-245.000.
Scott, Charles D., to United States of America, Energy. Method and apparatus for continuous annular electrochromatography. 4,683,042, 7-28-87, Cl. 204-180.100.
Scott, Charles E., to Emhart Industries, Inc. Controller with dual function switch. 4,672,233, 6-9-87, Cl. 307-141.000.
Scott, Craig H., to Sundstrand Corporation. Differential gear box. 4,660,437, 4-28-87, Cl. 74-675.000.
Scott, Curtis E.; and McVey, Charles I., to General Electric Company. Glaze polishing polycrystalline alumina material. 4,690,727, 9-1-87, Cl. 156-635.000.
Scott, Dale K.: *See*—
Feliks, James J.; Culpepper, Will L.; and Scott, Dale K., 4,705,159, Cl. 198-468.800.
Scott, Danny E.: *See*—
Simons, Robert W.; Scott, Danny E.; and Poland, John R., 4,643,051, Cl. 76-108.00A.
Scott, Darwin H.; and Wade, Kenneth D., to Reynolds Metals Company. Corrosion resistant aluminum brazing sheet. 4,649,087, 3-10-87, Cl. 428-654.000.
Scott, David J. Shield. 4,652,096, 3-24-87, Cl. 350-540.000.
Scott, David W.: *See*—
Bishop, Arthur E.; Roeske, Klaus J.; and Scott, David W., 4,715,210, Cl. 72-400.000.
Scott, Donald A.; and Hudson, John C., to Cavis Agro-Industries Limited. Sugar cane harvesters. 4,646,512, 3-3-87, Cl. 56-13.900.
Scott, Douglas G. Surgical dressing and packaging. 4,655,209, 4-7-87, Cl. 128-156.000.
Scott, Eddie W., to Collins & Aikman Corporation. Wrap yarns having low-melt binder strands and pile fabrics formed therefrom and attendant processes. 4,668,552, 5-26-87, Cl. 428-92.000.
Scott, Eddie W.; and Sweezy, Nelson E., to Collins & Aikman Corporation. Wrap yarns having crimped textured binder strands and pile fabrics formed therefrom and attendant processes. 4,668,553, 5-26-87, Cl. 428-92.000.
Scott, Edward S., to Alliance Machine Company, The. Hoisting systems. 4,653,653, 3-31-87, Cl. 212-149.000.
Scott, Edwin R. Knee brace having upper cuff with crossed straps. 4,686,969, 8-18-87, Cl. 128-80.00C.
Scott, Eugene E., Sr. Legrest and footrest for beds. 4,692,954, 9-15-87, Cl. 5-443.000.
Scott & Fetzer Company, The: *See*—
Bigley, James E., 4,709,443, Cl. 15-339.000.
Edejer, Merardo P.; Ford, Roger S.; Jailor, John J.; and Jens, Michael J., 4,692,754, Cl. 340-671.000.
Keech, David W., 4,703,956, Cl. 285-156.000.
Lackner, John R.; Rathgeber, Juergen; and Newby, J. Parks, 4,653,638, Cl. 206-373.000.
Lackner, John R.; and Bartasevich, William E., Jr., 4,683,607, Cl. 15-323.000.
MacAskill, Robert B.; and Braun, Jeffrey J., 4,682,082, Cl. 315-219.000.
Prahl, Joseph M.; and Kochte, Werner W., 4,682,384, Cl. 15-344.000.
Quinn, Antony W., 4,658,877, Cl. 160-46.000.
Richard, Matthew D., 4,702,122, Cl. 74-412.0TA.
Sanders, Gary G., 4,685,046, Cl. 363-89.000.
Simo, Donald M., 4,708,318, Cl. 251-292.000.
Tallman, William R.; and Kaplan, Robert A., 4,701,123, Cl. 431-171.000.
Scott, Francis H.: *See*—
Berg, Roger M.; and Scott, Francis H., 4,712,838, Cl. 301-37.05A.
Scott, George M. Cockpit transmission assembly. 4,706,091, 11-10-87, Cl. 342-42.000.
Scott, Gerald; and Chakraborty, Khirud B. Stabilized thermoplastic polymer compositions comprising a C-nitroso compound. 4,672,088, 6-9-87, Cl. 524-236.000.
Scott, Gerald R.: *See*—
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Scott, Graham A., to General Electric Company. Rating plug for molded case circuit breaker. 4,649,455, 3-10-87, Cl. 361-93.000.
Scott, Graham A., to General Electric Company. Mounting arrangement for circuit breaker current sensing transformers. 4,652,975, 3-24-87, Cl. 361-404.000.
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Scott, Graham A.; and Messerli, Alan J., to General Electric Company. Electronic circuit breaker trip function adjusting circuit. 4,710,844, 12-1-87, Cl. 361-96.000.
Scott, Gregory C., to Development Finance Corporation of New Zealand. Upholstery button. 4,672,719, 6-16-87, Cl. 24-113.00R.
Scott, Gregory M. Back support assembly for vehicle seat. 4,634,176, 1-6-87, Cl. 297-230.000.
Scott, Henry. Ambulatory lumbo-sacral traction systems and methods. 4,715,362, 12-29-87, Cl. 128-75.000.
Scott Instruments Company: *See*—
Scott, Brian L.; and Newell, John M., 4,672,667, Cl. 381-41.000.
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Scott, James J., to Scott Investment Partners. Dual stage dynamic rock stabilizing fixture and method of anchoring the fixture in rock formations. 4,659,258, 4-21-87, Cl. 405-261.000.
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Donaldson, Michael J.; Pue-Gilchrist, James D.; and Scott, James R., 4,708,430, Cl. 350-96.200.
Gronholz, Donald D.; Schneider, Kirk A.; and Scott, James R., 4,657,570, Cl. 55-385.00E.
Scott, James W.; and Hickox, John. Orthopedic cast spacing and spreading device. 4,691,699, 9-8-87, Cl. 128-91.00A.

Scott, Jane V.; and Waggett, Joseph F., to American Cyanamid Company. Process for the preparation of acellular *Bordetalla pertussis* vaccine. 4,705,686, 11-10-87, Cl. 424-92.000.

Scott, Jeffery E., McDougall, David W.; and Heigold, Robert E., to Delta Projects Inc. Diluent distillation process and apparatus. 4,661,242, 4-28-87, Cl. 208-177.000.

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Scott, John D. *See*—
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Scott, John J., to Norton Company. Abrasive casting process. 4,711,750, 12-8-87, Cl. 264-144.000.

Scott, John S. *See*—
Craine, Eric R.; Forbes, David; Sargent, Thomas A.; and Scott, John S., 4,634,882, Cl. 250-578.000.

Scott, Julian C. *See*—
Book, William J.; Scott, Julian C.; and Grace, James A., 4,679,113, Cl. 361-40.000.

Scott-Kestin, Colin B.; Pike, Roger B.; Watkins, Roger D.; Gillespie, Arthur B., and Deighton, Michael O., to United Kingdom Atomic Energy Authority. Ultrasonic liquid interface detector. 4,679,430, 7-14-87, Cl. 73-290.00V.

Scott, Larkin B. *See*—
Chamran, Morteza M.; Scott, Larkin B.; and Williams, Paul B., 4,644,323, Cl. 340-347.0NT.

Scott, Laurie J., Erickson, Robert E.; and Wallace, Theodore C., to Dow Chemical Company, The. Foamed polymeric materials. 4,649,164, 3-10-87, Cl. 521-149.000.

Scott, Lawrence M.; and Rexroat, Gary D., to Ampex Corporation. Magnetic iron oxide pigment and recording media. 4,683,167, 7-28-87, Cl. 428-328.000.

Scott, Leslie D., to Trusco Tank Inc. Large storage tank structures. 4,714,170, 12-22-87, Cl. 220-5.00A.

Scott, Lowell C. *See*—
Emerson, William D.; Hill, Deborah J.; Loeb, Karen C.; Mizrahi, Albert; Schlegel, Charles T.; and Scott, Lowell C., 4,646,346, Cl. 379-214.000.

Scott, Lynda L. *See*—
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Scott, Marshall H.; and Polstra, John D., to John Fluke Mfg. Co., Inc. Computer assisted fault isolation in circuit board testing. 4,709,366, 11-24-87, Cl. 371-20.000.

Scott, Melvin. *See*—
Edge, David J.; Naik, Appaya R.; and Scott, Melvin, 4,680,143, Cl. 252-553.000.

Scott, Menzy. Lawn debris accumulation and collection apparatus. 4,697,834, 10-6-87, Cl. 294-55.000.

Scott, Menzy. Combined lawn debris receptacle-target apparatus. 4,697,835, 10-6-87, Cl. 294-55.000.

Scott, Menzy. Refuse collection device. 4,699,411, 10-13-87, Cl. 294-61.000.

Scott, Michael. *See*—
Teather, Roy; and Scott, Michael, 4,704,607, Cl. 340-825.070.

Scott, Michael J., to Allflex International Limited. Tags. 4,691,458, 9-8-87, Cl. 40-300.000.

Scott, Michael J. *See*—
Bunker, Peter F.; and Scott, Michael J., 4,668,943, Cl. 340-606.000.

Scott, Millard. *See*—
Solstad, Russell V.; Scott, Millard; and Holliday, William, 4,713,611, Cl. 324-158.00F.

Scott, Norman H. *See*—
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Scott, Oscar T., IV. *See*—
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Scott Paper Company. *See*—
Abbott, Thomas G., Jr., 4,645,705, Cl. 428-195.000.
Gotchel, Joel P.; Norton, Henry J.; Neuenschwander, Rudolf; and Stango, Daniel J., 4,682,942, Cl. 425-303.000.
Hazard, James E., 4,660,781, Cl. 242-55.200.
Hoffman, Louis S.; Bohmer, William; DeVito, Ralph J.; Langille, Brian R.; Watkins, Richard D.; Sanders, Charles B.; Kerch, Martha E.; and Shanko, Marc, 4,666,099, Cl. 242-55.530.
Ow, Steven S.; and Singh, Rudra P., 4,661,205, Cl. 162-78.000.

Scott, Paul C., to L Investments, Ltd. Adapter for circular saw to cut-off saw. 4,648,301, 3-10-87, Cl. 83-464.000.

Scott, Paul F.; and Brady, Dale J., to Emhart Industries, Inc. Birdswing defect detection for glass containers. 4,664,521, 5-12-87, Cl. 356-240.000.

Scott, Paul F. *See*—
Japenga, Robert J.; and Scott, Paul F., 4,641,269, Cl. 364-473.000.
Liska, Timothy J.; and Scott, Paul F., 4,685,947, Cl. 65-29.000.
Liska, Timothy J.; and Scott, Paul F., 4,705,552, Cl. 65-158.000.
Williams, Reade; and Scott, Paul F., 4,713,536, Cl. 250-223.00B.

Scott, Paul H., to Advanced Micro Devices, Inc. Apparatus and associated methods for converting serial data pattern signals transmitted or suitable for transmission over a high speed synchronous serial transmission media, to parallel pattern output signals. 4,710,922, 12-1-87, Cl. 370-112.000.

Scott, Peter B.; and Hohla, Kristian, to Summit Technology, Inc. Laser excitation system. 4,709,373, 11-24-87, Cl. 372-86.000.

Scott, Peter J. Apparatus for seismic surveying. 4,700,331, 10-13-87, Cl. 367-68.000.

Scott, Ralph A., Jr. Chemical contamination monitor. 4,655,235, 4-7-87, Cl. 134-99.000.

Scott, Ray V., Jr.; Baumann, William M.; and House, David W., to UOP Inc. Alkylated triamines and higher polyamines as curing agents in polyurethane manufacture. 4,709,003, 11-24-87, Cl. 528-60.000.

Scott, Ray V., Jr. *See*—
House, David W.; and Scott, Ray V., Jr., 4,663,201, Cl. 427-388.200.
House, David W.; and Scott, Ray V., Jr., 4,714,512, Cl. 156-306.600.

Scott, Richard A.; Wortzman, Mitchell S.; and Jungermann, Eric, to Naetrogena Corporation. Hydroquinone composition having enhanced bio-availability and percutaneous adsorption. 4,678,663, 7-7-87, Cl. 424-62.000.

Scott, Richard A. *See*—
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Scott, Richard L., to Phillips Petroleum Company. Gas chromatographic apparatus and method. 4,650,499, 3-17-87, Cl. 55-31.000.

Scott, Richard P. L. *See*—
Hewitt, Michael T. H.; Ballance, John W.; and Scott, Richard P. L., 4,642,806, Cl. 370-95.000.

Scott, Robert E. *See*—
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Scott, Robert G. *See*—
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Scott, Robert T. Earplug. 4,702,238, 10-27-87, Cl. 128-151.000.

Scott Science & Technology, Inc. *See*—
Lofts, Dennis; and Ballard, David, 4,664,343, Cl. 244-158.00R.

Scott, Stephen E. *See*—
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Scott, Susan J. *See*—
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Martin, Lawrence L.; Setescak, Linda L.; and Scott, Susan J., 4,670,562, Cl. 546-94.000.

Scott, Therin A.; and Evans, Robert T., to Halliburton Company. Annulus pressure operated ratchet device. 4,696,344, 9-29-87, Cl. 166-182.000.

Scott, Thomas J. Paste applicating apparatus for wall covering sheet. 4,660,502, 4-28-87, Cl. 118-415.000.

Scott USA. *See*—
McNeal, Joseph R.; and Robrahn, David, 4,653,124, Cl. 2-427.000.

Scott USA Limited Partnership. *See*—
McNeal, Joseph R., 4,707,863, Cl. 2-436.000.

Scott, Warner C., to Texas Instruments Incorporated. Method and apparatus for recognition of discontinuous text. 4,680,805, 7-14-87, Cl. 382-22.000.

Scott, Warner C., to Texas Instruments Incorporated. Signature verification. 4,701,960, 10-20-87, Cl. 382-3.000.

Scott, William A., to Tillotson, Ltd. Carburetor fuel primer. 4,684,485, 8-4-87, Cl. 261-35.000.

Scott, William A.; and Dull, Carl, to Tillotson, Ltd. Starting aid for small internal combustion engines. 4,711,744, 12-8-87, Cl. 261-64.400.

Scott, William B., to W. A. Whitney Corp. Tool changing apparatus for a punch press. 4,649,622, 3-17-87, Cl. 29-568.000.

Scott, William L. *See*—
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Scotti, Marino D., to Douglas Marine s.r.l. Device for rapidly fixing the ends of cables and the like. 4,671,695, 6-9-87, Cl. 403-213.000.

Scourtes, George, to Allen Group Inc., The. Chassis dynamometer construction. 4,635,472, 1-13-87, Cl. 73-117.000.

Scouse, Bernard R. *See*—
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Scouten, Charles G., to Exxon Research and Engineering Company. Conversion of solid metal phenates to phenols. 4,661,637, 4-28-87, Cl. 568-716.000.

Scovell, Peter D., to ITT Industries Inc. Microwave apparatus for processing semiconductor. 4,683,363, 7-28-87, Cl. 219-10.55A.

Scovill Japan Kabushiki Kaisha. *See*—
Hasegawa, Kenji, 4,654,934, Cl. 24-113.00R.
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Otsuka, Koji, 4,697,313, Cl. 24-95.000.

Scovill, John P.; Klayman, Daniel L.; and Franchino, Charles F., to United States of America, Army. Transition metal complexes of the selenium analogs of 2-acetyl- and 2-propionylpyridine thiosemicarbazones useful for treating malarial infections and leukemia. 4,657,903, 4-14-87, Cl. 514-185.000.

Scovill, John P. *See*—
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Scowen, Reginald V. *See*—
Carter, Malcolm N. A.; and Scowen, Reginald V., 4,711,740, Cl. 252-174.240.

Scozzafava, Michael. *See*—
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Molaire, Michel F.; Scozzafava, Michael; and McColgin, William C., 4,650,734, Cl. 430-7.000.

SCP Biscornet. *See*—
Garcia, Raoul; Michaux, Daniel; and Sales, Andre, 4,691,724, Cl. 134-169.00R.

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Scrabis, Charles M.; and Hardin, Roy T., Jr., to Westinghouse Electric Corp. Method for maintenance of ice beds of ice condenser containment. 4,671,920, 6-9-87, Cl. 376-260.000.

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Scrabis, Charles M.; Mazza, Gregory E.; Golick, Leonard R.; and Pomaibo, Paul, to Westinghouse Electric Corp. Removable cruciform for ice condenser ice basket. 4,711,759, 12-8-87, Cl. 376-284.000.

Scrabis, Charles M.: *See*—
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Scrace, Harold A., to Rolls-Royce. Vectorable exhaust nozzle for gas turbine engines. 4,660,767, 4-28-87, Cl. 239-265.350.

Scrantom, Dehart G.; and Shealey, E. David, to AVX Corporation. Inserter device for electronic components. 4,670,977, 6-9-87, Cl. 29-741.000.

Scranton, Joseph D.: *See*—
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Scranton, Robert A.; and Thompson, David A., to International Business Machines Corporation. Capacitive sensing employing thin film inductors. 4,648,087, 3-3-87, Cl. 360-103.000.

Scranton, Robert A., to International Business Machines Corporation. Planar and cylindrical oscillating pneumatodynamic bearings. 4,666,315, 5-19-87, Cl. 384-1.000.

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Screen, Stafford T., to Colson Castors (Europe) Limited. Castor brake. 4,677,706, 7-7-87, Cl. 16-35.00R.

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Scriba, John M., Jr.: *See*—
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Scribano, Frank C., to Machlett Laboratories, Inc., The. Spot film device leveling mechanism. 4,665,542, 5-12-87, Cl. 378-176.000.

Scribano, Gino A.; Fadner, Thomas A.; and Goldberg, Irs B., to Rockwell International Corporation. Device for measuring the water content of ink samples. 4,658,207, 4-14-87, Cl. 324-61.00P.

Scriber, Chris A., to Whirlpool Corporation. Dryer control with momentary tumble feature. 4,663,861, 5-12-87, Cl. 34-22.000.

Scribner, James R.; Brown, Thomas G.; and Caracciolo, Anthony, Jr. Method of collecting and using data associated with tagged objects. 4,688,026, 8-18-87, Cl. 340-572.000.

Scribner, Richard A.; and Norton, James A., to Media Systems Technology, Inc. Automated floppy disk drive loader. 4,688,124, 8-18-87, Cl. 360-99.000.

Scrimshire, Hershell, to Early California Foods, Inc. Method for processing black ripe olives. 4,664,926, 5-12-87, Cl. 426-270.000.

Scripps Clinic: *See*—
Muller-Eberhard, Hans J.; and Vogel, Carl-Wilhelm E., 4,661,347, Cl. 424-85.000.

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Carson, Dennis A., 4,683,295, Cl. 530-391.000.
Cooper, Neil; and Mayes, James T., 4,642,284, Cl. 435-7.000.
Curtiss, Linda K.; and Edgington, Thomas S., 4,677,057, Cl. 435-7.000.
Elder, John H.; and Houghten, Richard A., 4,663,436, Cl. 530-324.000.
Goodman, Michael G.; and Weigle, William O., 4,643,992, Cl. 514-45.000.
Hanson, Stephen R., 4,687,482, Cl. 623-1.000.
Milich, David; and Chisari, Frank, 4,683,136, Cl. 424-89.000.
Reisfeld, Ralph A.; and Schulz, Gregor, 4,675,287, Cl. 435-7.000.
Schreiber, Robert D., 4,672,044, Cl. 436-501.000.
Shinnick, Thomas M.; Minden, Percy; and Houghten, Richard A., 4,689,397, Cl. 530-327.000.
Tramontano, Alfonso; and Lerner, Richard A., 4,659,567, Cl. 424-85.000.
Vaughan, John H.; Carson, Dennis A.; Rhodes, Gary; and Houghten, Richard, 4,654,419, Cl. 530-326.000.
Weigle, William O.; Hobbs, Monte O.; Morgan, Edward L.; Thoman, Marilyn L.; and Houghten, Richard A., 4,683,221, Cl. 514-14.000.
Zimmerman, Theodore S.; and Fulcher, Carol A., 4,649,132, Cl. 514-12.000.
Zimmerman, Theodore S.; and Fulcher, Carol A., 4,657,894, Cl. 514-21.000.
Zimmerman, Theodore S.; Ruggeri, Zaverio M.; and Houghten, Richard, 4,683,291, Cl. 530-324.000.

Scripps, Keith A. Combination electrical light, smoke and/or heat detector. 4,694,285, 9-15-87, Cl. 340-693.000.

Scriptel Corporation: *See*—
Kable, Robert G.; and Schlosser, Philip A., 4,665,283, Cl. 178-19.000.
Kable, Robert G., 4,678,869, Cl. 178-19.000.
Kable, Robert G., 4,695,680, Cl. 178-19.000.
Kable, Robert G.; and Schlosser, Philip A., 4,707,572, Cl. 178-18.000.
Nakamura, Shiochiro; and Kable, Robert G., 4,649,232, Cl. 178-18.000.
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Scripter, Robert D. Waste collection device. 4,705,310, 11-10-87, Cl. 294-1.400.

Scriven, Roger L.: *See*—
McCollum, Gregory J.; Scriven, Roger L.; Christenson, Roger M.; Mauer, George W.; and Zwack, Robert R., 4,711,917, Cl. 523-400.000.
Roue, Jean; LeDisert, Yves; Faucher, Philippe; and Scriven, Roger L., 4,689,131, Cl. 204-181.700.

Scriver, Arthur J.: *See*—
Crockett, Peter N.; Jewett, Robert P.; Scriver, Arthur J.; and Tucker, Thomas A., 4,646,236, Cl. 364-200.000.

Scriver, Richard M., to Goodyear Tire & Rubber Company, The. Process for preparing rubber compositions. 4,705,819, 11-10-87, Cl. 523-351.000.

Scrivo, Jerry V.; and Breuker, Gordon W., to Ex-Cell-O Corporation. Valved mix-head for rim process. 4,695,433, 9-22-87, Cl. 422-112.000.

Scrudato, Frederick; and St. John, John, to Finest Marking Supplies, Inc. Printing device with disposable cartridge and filling means. 4,699,054, 10-13-87, Cl. 101-330.000.

Scruggs, David M.; and Mickelson, Eric N., to Dresser Industries, Inc. Apparatus for producing rapidly quenched metal particles. 4,648,820, 3-10-87, Cl. 425-8.000.

Scruggs, David M., to Dresser Industries, Inc. Process for preparation of liquid phase bonded amorphous materials. 4,710,235, 12-1-87, Cl. 148-4.000.

Scrutchin, Thomas W., Jr.: *See*—
Martin, Mary S.; McCord, Elizabeth; Puckett, Harley D., Jr.; and Scrutchin, Thomas W., Jr., 4,649,513, Cl. 364-900.000.

SCSS Instruments, Inc.: *See*—
Shulenberger, Arthur M.; and Platt, John A., 4,637,713, Cl. 355-76.000.

Scudder, Glenn N.: *See*—
Amundsen, Louis R.; Patterson, Robert P.; Baxter, Tanya L.; Scudder, Glenn N.; Duescher, Wayne O.; Dahlman, Wills E.; Schukar, Gary W.; and Steinback, Clarence I., 4,702,108, Cl. 73-379.000.

Sculatti, Ron. Flying model rocket and method of recovery. 4,687,455, 8-18-87, Cl. 446-52.000.

Scull, Robert D., to Boeing Company, The. Open-ended, high torque wrench for use on nuts to which there is limited access. 4,688,454, 8-25-87, Cl. 81-119.000.

Scullin, Mary E., to Exquisite Form Industries, Inc. Nursing bra. 4,633,876, 1-6-87, Cl. 128-460.000.

Scullion, Christopher K.: *See*—
Baggarly, Brad A.; and Scullion, Christopher K., 4,639,873, Cl. 364-466.000.

Scullion, Martin: *See*—
Lubotta, Mark S.; and Scullion, Martin, 4,668,211, Cl. 493-185.000.
Lubotta, Mask S.; and Scullion, Martin, 4,706,875, Cl. 229-73.000.

Scully, Andrew J., to United States of America, Army, The/own assembly. 4,715,754, 12-29-87, Cl. 410-107.000.

Scully, Andrew J.: *See*—
Adlam, Arthur H.; Wittbrodt, Donald R.; Scully, Andrew J.; Smith, Roger R.; Tuteja, Balbir S.; Currier, Theodore R.; George, Rita M.; Yopp, Roger W.; and Hussain, Syed M., 4,671,162, Cl. 89-1.130.

Scully-Jones Corp.: *See*—
Rivera, Jeremias C., Jr., 4,640,652, Cl. 409-136.000.

Scully, Michael J.: *See*—
Cosmos, Pete; Scully, Michael J.; and Stephenson, Brian D., 4,687,263, Cl. 439-108.000.
Good, Robert S.; Scully, Michael J.; and Zelko, William E., 4,701,139, Cl. 439-497.000.

Scuro, Samuel J.: *See*—
Scherbarth, David W.; Scuro, Samuel J.; and Ferrentino, Gerald L., 4,658,729, Cl. 102-520.000.

Scymanski, Gerald L.; Mossaad, Amgad S.; and Hussain, Saadat, to Ethyl Corporation. Diaryloxyalkane bromination process. 4,716,251, 12-29-87, Cl. 568-645.000.

Sczomak, David P., to General Motors Corporation. Poppet covered orifice fuel injection nozzle. 4,693,424, 9-15-87, Cl. 239-453.000.

Sdunek, Bruce C.: *See*—
Bakhaus, Kenneth C.; and Sdunek, Bruce C., 4,687,164, Cl. 248-27.300.

Sea Energy Associates Limited: *See*—
Bellamy, Norman W., 4,675,536, Cl. 290-42.000.

Sea Hands Enterprises, Inc.: *See*—
Massbaum, Ross, 4,676,760, Cl. 441-56.000.

Sea Hawk Corporation: *See*—
Beard, James R., 4,645,168, Cl. 248-548.000.

Sea-Land Corporation, Inc.: *See*—
Van Iperen, Willem H. P., 4,667,603, Cl. 105-4.100.
Van Iperen, Willem H. P.; Sandt, Henry J., Jr.; and Aronson, Eva G., 4,695,211, Cl. 410-77.000.

Sea-Land Corporaton, Inc.: *See*—
Van Iperen, Willem H. P., 4,637,763, Cl. 410-52.000.

Sea-Land Service Inc.: *See*—
van Iperen, Willem H. P., 4,665,834, Cl. 105-4.100.

Seaberg, Richard D., to Cascade Corporation. Lift truck load-handling attachment having vertically-slidable quick-disconnect hook. 4,699,565, 10-13-87, Cl. 414-785.000.
Seaberg, Richard D.; *See*—
Farmer, Stanley E.; and Seaberg, Richard D., 4,708,575, Cl. 414-607.000.
Seaboard Deluxe, Inc.; *See*—
Werner, John; and Finkel, Gilbert, 4,663,175, Cl. 426-289.000.
Seaboard Wellhead Control, Inc.; *See*—
Clark, Bill W., 4,693,534, Cl. 439-276.000.
Seaboard Wellhead, Inc.; *See*—
Etheridge, Reggie H., 4,662,603, Cl. 251-63.500.
Seaborne, Jonathan; and Egberg, David C., to General Mills, Inc. Compositions and methods for preparing an edible film of lower water vapor permeability. 4,661,359, 4-28-87, Cl. 426-89.000.
Seaborne, Jonathan; and Egberg, David C., to General Mills, Inc. Edible coating composition and method of preparation. 4,710,228, 12-1-87, Cl. 106-218.000.
Seac International B. V.; *See*—
Verduyn, Hendrik A.; and Griffioen, Arie, 4,666,470, Cl. 55-20.000.
Seachff International, Inc.; *See*—
Shere, Paul, 4,692,680, Cl. 320-2.000.
Seagate Technology; *See*—
Kaczeus, Steven; and Ngo, Long V., 4,654,736, Cl. 360-106.000.
Smith, Robert F., 4,682,252, Cl. 360-67.000.
Wevers, William E.; Krause, James N.; and Battu, Ramgopal, 4,679,102, Cl. 360-75.000.
Wiens, John P.; and Jue, Clifford T., 4,716,480, Cl. 360-105.000.
Seager, Richard H., to Risdon Corporation. Product dispenser with advance/retract-type delivery means. 4,702,398, 10-27-87, Cl. 222-386.000.
Seago, Carl R.; *See*—
Gould, Corby J.; and Seago, Carl R., 4,663,126, Cl. 422-58.000.
Seah, Alexander M., to Jaeger Products, Inc. Structured WV packing elements. 4,676,934, 6-30-87, Cl. 261-112.000.
Seah, Alexander M. Corrugated packing and methods of use. 4,710,326, 12-1-87, Cl. 261-112.000.
Seah, Kiok K.; *See*—
Lynam, Niall R.; and Seah, Kiok K., 4,712,879, Cl. 350-357.000.
Seahorse Equipment Corporation; *See*—
Blandford, Joseph W., 4,679,964, Cl. 405-216.000.
Seal Company of New England; *See*—
Champlin, George B., 4,672,879, Cl. 87-7.000.
Seal, J. David; and Franks, Jeffrey G., to Autotrol Corporation. Water quality monitor. 4,668,386, 5-26-87, Cl. 210-91.000.
Seal, Jack M. Calf trim chute. 4,702,199, 10-27-87, Cl. 119-99.000.
Seal, John, to Diversified Products Corporation. Bench-type exercising apparatus. 4,662,631, 5-5-87, Cl. 272-123.000.
Seal, Michael, to D. Drukker & Zn. N.V. Travelling wave tube and helix for such travelling wave tube. 4,683,400, 7-28-87, Cl. 315-3.500.
Seal, Michael; and Berkhout, Franciscus M., to D. Drukker & Zn. N.V. Microsurgical suture needles. 4,699,142, 10-13-87, Cl. 128-339.000.
Seal, Michael; *See*—
van Beinekom, Peter K.; and Seal, Michael, 4,705,933, Cl. 219-121.0LC.
Seal, Morton. Side loading boat lifts. 4,641,996, 2-10-87, Cl. 405-2.000.
Seal-Tech, Inc.; *See*—
Johnson, Frederick W., 4,707,001, Cl. 285-332.300.
Sealand Technology, Inc.; *See*—
Sigler, James, 4,672,690, Cl. 4-423.000.
Seale, Joseph B. Non-invasive determination of mechanical characteristics in the body. 4,646,754, 3-3-87, Cl. 128-774.000.
Sealectro Corporation; *See*—
Dreyer, Charles W., 4,688,877, Cl. 439-584.000.
Sealed Air Corporation; *See*—
Gavronsky, German; and Krislav, Semyon, 4,674,268, Cl. 53-468.000.
Malwitz, Nelson E., 4,654,375, Cl. 521-107.000.
Malwitz, Nelson E., 4,680,324, Cl. 524-58.000.
Sealed Power Corporation; *See*—
Warnick, Frank G., 4,674,536, Cl. 137-614.190.
Sealer, David; *See*—
Lechner, Robert; and Sealer, David, 4,651,110, Cl. 330-9.000.
Sealfon, Andrew I. Hypodermic syringe. 4,698,055, 10-6-87, Cl. 604-82.000.
Sealright Co., Inc.; *See*—
Brazil, Michael J., 4,708,283, Cl. 229-5.500.
Sealsyringe Corporation; *See*—
Etherington, Roger F., 4,660,569, Cl. 128-765.000.
Sealy, Incorporated; *See*—
Wagner, Robert F.; and Lewis, Jack L., 4,669,302, Cl. 73-172.000.
Seaman, Donald J., to Seaman Nuclear Corporation. Measuring device. 4,651,556, 3-24-87, Cl. 73-32.00R.
Seaman, Frederic D.; Rajagopal, Srinivasan; and Altergott, William H., to IIT Research Institute. Method and apparatus for forming ultrafine metal powders. 4,689,074, 8-25-87, Cl. 75-0.50B.
Seaman, Gary G.; *See*—
Anderson, Carl R.; and Seaman, Gary G., 4,678,073, Cl. 198-396.000.
Seaman, Harry V., to American Technical Ceramics Corp. Miniature, multiple layer, side mounting high frequency blocking capacitor. 4,661,884, 4-28-87, Cl. 361-306.000.
Seaman, Jeffrey M.; *See*—
Guinn, William H., Jr.; Corbett, Richard M.; Bundy, Robert S.; Seaman, Jeffrey M.; Duncan, Keith B.; and Link, Charles M., II, 4,642,425, Cl. 379-57.000.
Seaman, John W., to Kohler Co. Combined mirror and dryer air outlet assembly. 4,653,201, 3-31-87, Cl. 34-90.000.
Seaman Nuclear Corporation; *See*—
Seaman, Donald J., 4,651,556, Cl. 73-32.00R.
Seaman, Roy C.; and McCaul, Ronald D. Apparatus for trimming reeds of musical instruments. 4,644,849, 2-24-87, Cl. 30-229.000.
Seaman, Sharon A.; *See*—
Small, Leonard E.; Garrison, Paul H., Jr.; Winkler, William M.; Seaman, Sharon A.; and Papa, Alyce J., 4,673,525, Cl. 252-132.000.
Seanav Corporation, The; *See*—
Jacobs, Thomas A., 4,647,929, Cl. 340-985.000.
Seanor, Donald A., to Xerox Corporation. Extended nip cleaning system. 4,641,956, 2-10-87, Cl. 355-15.000.
Seaquist, Freddie. Storm shutter. 4,685,261, 8-11-87, Cl. 52-202.000.
Searcy, James A.; Zoellner, Roger O.; and Hoffmann, Ronald C., to Cambridge Engineering, Inc. Ventilating hood. 4,700,688, 10-20-87, Cl. 126-299.00D.
Searight, Edward F.; *See*—
Hurley, James R.; Pansira, Robert A.; Searight, Edward F.; and Shukla, Kailash C., 4,668,390, Cl. 210-167.000.
Searing, Lawrence G.; *See*—
Counter, Louis F.; Born, Richard C.; Walters, LeRoy M.; Ziese, Lowell B.; and Searing, Lawrence G., 4,714,917, Cl. 340-679.000.
Damiano, Michael A.; Schmerda, Richard F.; and Searing, Lawrence G., 4,638,226, Cl. 318-345.00R.
Searl, Alonzo H.; Hahn, Granville J.; and Rutledge, Raleigh N.; to Cosden Technology, Inc. Foamed polymer tubing. 4,713,271, 12-15-87, Cl. 428-36.000.
Searl, Stephen, to General Electric Company. Ice piece ejection mechanism for icemaker. 4,706,465, 11-17-87, Cl. 62-137.000.
Searle, Jeffrey G.; *See*—
Overbury, Francis G.; Ward, Christopher R.; and Searle, Jeffrey G., 4,713,668, Cl. 342-384.000.
Searle, Robin H. J., to Normalair-Garrett (Holdings) Limited. Fluid pressure intensifier device. 4,714,411, 12-22-87, Cl. 417-246.000.
Sears, Claude L.; *See*—
Hambleton, Larry G.; Sears, Claude L.; and Offutt, Elmer B., 4,708,153, Cl. 134-170.000.
Sears, James W.; *See*—
Sachs, Peter R.; and Sears, James W., 4,675,234, Cl. 428-328.000.
Sears, Jerome; Parfomak, Walter; and Kluss, Walter, to Allied Corporation. Permanent magnet motor closed loop restarting system. 4,673,849, 6-16-87, Cl. 318-272.000.
Sears Manufacturing Co.; *See*—
Wahls, Robert; and Gryp, Dennis, 4,709,896, Cl. 248-550.000.
Sears, Roebuck and Co.; *See*—
Conneally, Martin L., 4,696,213, Cl. 83-438.000.
Gall, John C., 4,678,454, Cl. 474-101.000.
Swartz, James R., 4,659,194, Cl. 350-552.000.
Sears, Stephan B., to Superstill Technology, Inc. Method for recycling energy in counterflow heat exchange and distillation. 4,671,856, 6-9-87, Cl. 203-22.000.
Seasholtz, Craig A.; *See*—
Berfield, Robert C.; Seasholtz, Craig A.; and Fegan, Richard M., 4,701,969, Cl. 15-79.00R.
Berfield, Robert C.; Seasholtz, Craig A.; and Fegan, Richard M., 4,709,436, Cl. 15-79.00R.
Seasonmakers (Australia) Pty. Limited; *See*—
Bowers, Geoffrey, 4,635,576, Cl. 112-403.000.
Seastar Instruments Ltd.; *See*—
Berrang, Peter G., 4,664,559, Cl. 405-224.000.
Seatek; *See*—
Bergman, Gunnar, 4,676,185, Cl. 114-349.000.
Seaton, Andrew; *See*—
Brown, Michael; Martin, Sharon P.; Seaton, Andrew; Snowsill, Phillip J.; Thomas, Mark S.; and Williams, Hywel, 4,657,479, Cl. 415-138.000.
Seaton, David P.; *See*—
Olson, Jeffrey J.; Peck, Stephen R.; and Seaton, David P., 4,679,189, Cl. 370-60.000.
Seaton-SSK Engineering Co., Inc.; *See*—
McKibben, Kenneth D.; Gould, Alan P.; Groh, Craig J.; and Wuepper, Thomas E., 4,643,243, Cl. 164-260.000.
Seaton SSK Engineering Inc.; *See*—
McKibben, Kenneth D.; Gould, Alan P.; Groh, Craig J.; and Wuepper, Thomas E., 4,639,968, Cl. 15-304.000.
Seaton, Starling; *See*—
Sorensen, Robert K.; and Seaton, Starling, 4,660,444, Cl. 76-108.00A.
Seatronics, Inc.; *See*—
Grady, Mark P., 4,695,361, Cl. 204-415.000.
Seats, Inc.; *See*—
Hofrichter, James, 4,705,256, Cl. 248-418.000.
Van Duser, Harold J., 4,645,160, Cl. 248-429.000.
Seaver, George A. Refraction sensor. 4,699,511, 10-13-87, Cl. 356-136.000.
Seavey Engineering Associates, Inc.; *See*—
Seavey, John M., 4,636,798, Cl. 343-753.000.
Seavey, John M., to Seavey Engineering Associates, Inc. Microwave lens for beam broadening with antenna feeds. 4,636,798, 1-13-87, Cl. 343-753.000.
Seawell, Jesse Q.; *See*—
Bardo, Charles J.; Seawell, Jesse Q.; Dylewski, Anthony J.; and Clark, John L., Jr., 4,637,903, Cl. 261-24.000.

Seawright, James. Method and apparatus for providing a variable multiple image visual effect. 4,696,554, 9-29-87, Cl. 350-613.000.

SEB S.A.: *See*—
Daloz, Joanny, 4,694,740, Cl. 99-323.300.
Daloz, Joanny, 4,715,245, Cl. 74-522.000.
Gardaz, Claudine; and Buffard, Jean-Pierre, 4,677,000, Cl. 427-261.000.
Hennuy, Jean; and Seguret, Rene, 4,671,461, Cl. 239-306.000.
Hennuy, Jean; and Seguret, Rene, 4,700,050, Cl. 219-438.000.
Hennuy, Jean-Pierre; and Bontoux, Daniel, 4,669,207, Cl. 38-77.500.
Mayeur, Jacques, 4,641,015, Cl. 219-386.000.
Rosset, Roger; and Mayeur, Jacques, 4,697,067, Cl. 219-401.000.
Schwob, Pierre; and Bontoux, Daniel, 4,673,909, Cl. 337-407.000.
Sebillotte, Christian, 4,685,587, Cl. 220-316.000.

Seba-Dynatronic, Mess - und Ortungstechnik GmbH: *See*—
Koster, Hans; and Weiler, Horst, 4,660,126, Cl. 361-392.000.

Sebag, Henri; and Vanlerberghe, Guy, to L'Oreal. Surface-active oligmers, a process for their preparation and compositions containing them, 4,656,030, 4-7-87, Cl. 424-47.000.

Sebag, Henri; and Vanlerberghe, Guy, to L'Oreal. Hair composition and method containing glycosylated polyethers, 4,657,556, 4-14-87, Cl. 8-405.000.

Sebag, Henri; and Vanlerberghe, Guy, to L'Oreal. Process for the preparation of nonionic surface-active agents from glycerol monochlorohydrin, products obtained and a composition in which they are present, 4,677,232, 6-30-87, Cl. 568-613.000.

Sebag, Henri: *See*—
Rougier, Andre; Dupuis, Didier; Philippe, Michel; Sebag, Henri; and Leger, Didier S., 4,668,664, Cl. 514-29.000.
Vanlerberghe, Guy; and Sebag, Henri, 4,666,711, Cl. 424-70.000.
Vanlerberghe, Guy; and Sebag, Henri, 4,668,509, Cl. 424-72.000.
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Sebald, Georg; and Nist, Alfred, to Siemens Aktiengesellschaft. Bit/1 bit digital correlator, 4,654,814, 3-31-87, Cl. 364-604.000.

Sebalj, Renata: *See*—
Gessinger, Gernot; Sebalj, Renata; and Widl, Wolfgang, 4,707,576, Cl. 200-146.00R.

Sebalos, Adam. Air brake adjustment tool, 4,685,164, 8-11-87, Cl. 7-138.000.

Sebastian, Peter R.; and Stump, John L. Therapeutic lumbosacral appliance, 4,703,750, 11-3-87, Cl. 128-78.000.

Sebastian, Wilhelm; Nickel, Wilhelm; and Schirmag, Klaus-Peter, to Mannesmann AG. Holding and guiding a mandrel rod in rolled stock in and adjacent to a tube rolling mill, 4,638,655, 1-27-87, Cl. 72-208.000.

Sebastiani, Gaetano; Brandi, Roberto; Di Lena, Francesco; Vanore, Silvestro; and Carraro, Roberto, to Tecnomare S.p.A. Slender flexible marina structure for hydrocarbon production and ship mooring in deep seas, 4,695,193, 9-27-87, Cl. 405-204.000.

Sebata, Ichiro: *See*—
Ikeda, Hiroyuki; Matsumoto, Seikichi; Kitagawa, Shunji; Inagaki, Takefumi; and Sebata, Ichiro, 4,639,070, Cl. 350-3.710.
Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Watanuki, Hiroshi; Ishii, Mitsuharu; Sebata, Ichiro; and Inagaki, Takefumi, 4,647,143, Cl. 350-3.710.
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Sebek, Oldrich K.: *See*—
Dolak, Lester A.; Laborde, Alice L.; Sebek, Oldrich K.; Castle, Thomas M.; and Brodasky, Thomas F., 4,689,300, Cl. 435-253.000.

Sebelin, Alfred: *See*—
Mielke, Johannes; and Sebelin, Alfred, 4,703,704, Cl. 111-1.000.

Sebelist, Norman C.; and Fulton, Edward N., to Cyklop International Emil Hoffman KG. Method of compressing and strapping articles, 4,635,542, 1-13-87, Cl. 100-3.000.

Sebenik, Roger F.: *See*—
Carpenter, Kent H.; and Sebenik, Roger F., 4,659,376, Cl. 75-84.000.

Sebestyen, Endre: *See*—
Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Sopteì, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.

Sebestyen, Imre. System for generating groups of different numbers, 4,688,797, 8-25-87, Cl. 273-148.00R.

Sebestyen, Magdolna: *See*—
Salamon, Zoltan; Imre nee Virag, Ilona; and Sebestyen, Magdolna, 4,659,834, Cl. 546-180.000.

Sebille, Bernard; Beuzard, Yves; and Demarne, Henri, to Sanofi; and Institut National de la Sante et de la Recherche Medicale (Inserm). Pharmaceutical or veterinary compositions containing thiosulfonate derivatives, 4,694,015, 9-15-87, Cl. 514-375.000.

Sebille, Bernard; Beuzard, Yves; and Demarne, Henri, to Sanofi; and Institut National de la Sante et de la Recherche Medicale (Inserm). Thiosulfonate derivatives for inhibiting malformation or destruction of red blood corpuscules, 4,696,937, 9-29-87, Cl. 514-314.000.

Sebille, Michel, to Treficable Pirelli. Rotary extrusion head more especially for manufacturing cables with helical grooves for optical fibers, 4,690,627, 9-1-87, Cl. 425-113.000.

Sebillotte, Christian, to Seb S.A. Pressure cooker equipped with a safety device for producing controlled leakage of the sealing gasket, 4,685,587, 8-11-87, Cl. 220-316.000.

Sebo, Milan J., to Allied Corporation. Brake control valve, 4,691,737, 9-8-87, Cl. 137-625.260.

Sebo, Milan J.: *See*—
Bartholomew, Roy E.; and Sebo, Milan J., 4,660,894, Cl. 303-54.000.

Sebok, Dezso: *See*—
Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Sopteì, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.

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Secemski, Isaac I.; and Lynn, Jesse L., Jr., to Lever Brothers Company. Detergent compositions containing an alkylbenzene sulfonate and alcohol ethoxysulfate surfactant system, 4,692,275, 9-8-87, Cl. 252-534.000.

Sechi, Franco N.; and Kalokitis, David, to RCA Corporation. Tuning capacitors with selectable capacitance configurations for coupling between microwave circuits, 4,697,159, 9-29-87, Cl. 333-24.00C.

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DeMario, Edmund E.; Burman, Denis L.; Olson, Carl A.; and Secker, Jeffrey R., 4,651,403, Cl. 29-450.000.
Demario, Edmund E.; Burman, Denis L.; Olson, Carl A.; and Secker, Jeffrey R., 4,716,016, Cl. 376-446.000.

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Moss, Ted C.; Kenney, William H.; Boing, Earl V., Jr.; and Cross, H. Edwin, Sr., 4,656,686, Cl. 15-147.00A.

Seco Tools AB: *See*—
Andersson, Kjell, 4,679,972, Cl. 408-150.000.
Loqvist, Kaj-Ragnar, 4,664,564, Cl. 407-72.000.
Loqvist, Kaj-Ragnar, 4,710,069, Cl. 407-114.000.

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Ross, Robert H., 4,676,743, Cl. 432-152.000.

Secoh Geiken Inc.: *See*—
Bahn, Itsuki; and Okada, Hideo, 4,710,683, Cl. 318-254.000.

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Secord, Nelson W., to Chrysler Motors Corporation. Cable bundler clip, 4,637,097, 1-20-87, Cl. 24-16.00PB.

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Ellwood, Derek C.; Evans, Charles G. T.; and Yeo, Richard G., 4,696,900, Cl. 435-104.000.

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Wicker, Ralph C., 4,684,593, Cl. 430-6.000.

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Buckley, John E., 4,689,852, Cl. 16-341.000.

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Frazer, Byron T., 4,658,099, Cl. 379-7.000.

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ederquist, Richard A., to International Fuel Cells Corporation. Integrated fuel cell and fuel conversion apparatus. 4,642,272, 2-10-87, Cl. 429-17.000.

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Peiffer, Dennis G.; Lundberg, Robert D.; Sedillo, Lawrence; and Newlove, John C., 4,683,952, Cl. 166-293.000.

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Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., 4,706,174, Cl. 363-9.000.
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Sedlacek, Hans-Harald. *See*—
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Sedlacek, Robert S.; and Campbell, Neil, to Lab Products, Inc. Animal cage assembly with reusable filter cap. 4,640,228, 2-3-87, Cl. 119-15.000.

Sedlaczek, Walter, to Miset AG. Process and apparatus for the centrifugal separation of fine-grain mineral mixtures. 4,673,491, 6-16-87, Cl. 209-453.000.

Sedlak, Adlof; and Stotz, Gerhard, to Timex Corporation. Electric watch. 4,679,944, 7-14-87, Cl. 368-157.000.

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Egger, Joseph; and Sedlak, Adolf, 4,657,408, Cl. 368-317.000.

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Brauch, Robert B.; Sedlatschek, Robert; and Huang, Pao-Ter, 4,651,662, Cl. 112-258.000.

Sedley, Bruce S.; and Eisermann, Armin. Locking mechanism with actuator. 4,676,083, 6-30-87, Cl. 70-276.000.

Sedlmair, Gerhard, to Marker International. Ski binding with screw retaining construction. 4,640,524, 2-3-87, Cl. 280-611.000.

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Alstetter, Franz; Schiele, Herbert; Sedlmayer, Peter; and Hultsch, Gunther, 4,691,448, Cl. 34-8.000.

Sedlmayr, Steven R. Fiber optic light transfer device, modular assembly, and method of making. 4,650,280, 3-17-87, Cl. 350-96.270.

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Schmid, Anton; Tauschek, Georg; Sedlmeier, Andreas; and Pollok, Peter, 4,700,446, Cl. 29-159.200.

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Sedrick, A. Victor, Jr.; and Lowell, Charles R., to Hollis Automation, Inc. Mass soldering system providing a sweeping fluid blast. 4,679,720, 7-14-87, Cl. 228-20.000.

Sedwall, Yngve G. *See*—
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See, Jacques L. Storage and display system. 4,688,359, 8-25-87, Cl. 52-134.000.

Seebach, Dieter, to Sandoz Ltd. Novel cyclosporins. 4,703,033, 10-27-87, Cl. 514-11.000.

Seebacher, Gerald. *See*—
Lubojatsky, Walter; Lachner, Hans; and Seebacher, Gerald, 4,679,856, Cl. 299-11.000.

Seeberger, F. G., Jr. *See*—
Watson, Milton R.; Seeberger, F. G., Jr.; and Lockerd, Robert M., 4,654,514, Cl. 235-385.000.

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Marquardt, Ulrich; and Seebold, Ralf, 4,636,762, Cl. 335-195.000.
Marquardt, Ulrich; and Seebold, Ralf, 4,655,098, Cl. 74-163.000.

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Smith, Derek; and Seed, David, 4,703,586, Cl. 49-307.000.

Seedhom, Bahaa B.; and Fujikawa, Kyosuke, to NEC Corporation; and Nippon Telegraph and Telephone Corporation. Prosthetic ligaments and instruments for use in the surgical replacement of ligaments. 4,668,233, 5-26-87, Cl. 623-13.000.

Seefluth, U. Christian, to Sita Bauelemente GmbH. Drill tool. 4,711,609, 12-8-87, Cl. 408-68.000.

Seefluth, Uwe C., to Sita Bauelemente GmbH. Double propeller for propelling aircraft. 4,676,459, 6-30-87, Cl. 244-65.000.

Seefried, Karl-Heinz. *See*—
Beisel, Hermann; and Seefried, Karl-Heinz, 4,658,724, Cl. 101-351.000.

Seeger Corporation. *See*—
Clements, George W., 4,705,461, Cl. 417-387.000.
Seeger, John W., Jr.; and Kubiak, John W., 4,637,551, Cl. 239-288.500.

Seeger, Gunter A.; and Reger, Arno, to Hengstler Bauelemente GmbH. Relay for the operation of a belt tightener or tensioner for automobile safety belts. 4,705,922, 11-10-87, Cl. 200-61.45M.

Seeger, Hanspeter. Installation for the dispersion or emulsification of a mass consisting of at least two products. 4,687,339, 8-18-87, Cl. 366-305.000.

Seeger, John W., Jr.; and Kubiak, John W., to Seeger Corporation. Safety guard for airless spray apparatus. 4,637,551, 1-20-87, Cl. 239-288.500.

Seeger-Orbis GmbH. *See*—
Malm, Rune; and Mihalcea, Radu, 4,702,001, Cl. 29-720.000.

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Seegmiller, Ben L. Rock bolt construction and installation. 4,650,373, 3-17-87, Cl. 405-260.000.

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Seehausen, Randall R., to Vetco Gray Inc. Subsea safety check valve system. 4,703,774, 11-3-87, Cl. 137-614.040.

Seehra, Jasbir S. *See*—
Hewick, Rodney M.; and Seehra, Jasbir S., 4,677,195, Cl. 530-397.000.

Seekamp, Heinrich. *See*—
Tapperman, Henry; Vitzthum, Otto G.; and Seekamp, Heinrich, 4,703,874, Cl. 222-198.000.

Seel, David D. *See*—
Wilson, John F.; Seel, David D.; and Pepka, James M., 4,702,883, Cl. 376-446.000.

Seel, Holger. *See*—
Andres, Rudolf; Moller, Hermann; and Seel, Holger, 4,699,424, Cl. 297-284.000.
Gmeiner, Guenter; Andres, Rudolf; and Seel, Holger, 4,652,768, Cl. 307-10.00R.

Seel, Jerry E.; and Gray, Gary W. Biomechamcal ankle platform, 4,653,748, 3-31-87, Cl. 272-96.000.

Seel, Klaus. *See*—
Rasshofer, Werner; Meiner, Hans-Joachim; Seel, Klaus; and Wussow, Hans-Georg, 4,645,630, Cl. 264-54.000.
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Greanias, Evon C.; Guarnieri, C. Richard; Seeland, John J., Jr.; Verrier, Guy F.; and Donaldson, Robert L., 4,686,332, Cl. 178-19.000.

Seelbach, Christian A.; Ingle, William M.; and Goetz, Carl A., to Motorola Inc. Process and apparatus for the low pressure chemical vapor deposition of thin films. 4,699,805, 10-13-87, Cl. 437-245.000.

Seelbach, Walter C.: *See*—
Birrittella, Mark S.; and Seelbach, Walter C., 4,635,087, Cl. 357-38.000.
Birrittella, Mark S.; Marley, Robert R.; and Seelbach, Walter C., 4,644,194, Cl. 307-475.000.
Koury, Daniel N., Jr.; and Seelbach, Walter C., 4,675,554, Cl. 307-455.000.
McLaughlin, Kevin L.; and Seelbach, Walter C., 4,649,295, Cl. 307-446.000.

Seelen-Kruijssen, Josepha M. E.: *See*—
Van Erp, Willibrord A.; Seelen-Kruijssen, Josepha M. E.; and Huizinga, Tom, 4,663,140, Cl. 423-328.000.

Seeley, Gerard: *See*—
Barbee, Steven G.; Devine, Gregory P.; Patrick, William J.; and Seeley, Gerard, 4,640,221, Cl. 118-689.000.

Seeley, Robert L.; Barth, Joseph J.; and Clayton, Gerald H., II, to United States of America, Interior. Thermoregulated magnetic susceptibility sensor assembly. 4,701,712, 10-20-87, Cl. 324-340.000.

Seelhorst, Gottfried, to Rieselmann & Sohn, Firma. Level indicating device for liquid containers. 4,638,663, 1-27-87, Cl. 73-313.000.

Seelig, Wolfgang, to Siemens Aktiengesellschaft. Inert gas ion laser. 4,646,313, 2-24-87, Cl. 372-64.000.

Seeliger, Wolfgang: *See*—
Bartmann, Martin; and Seeliger, Wolfgang, 4,687,834, Cl. 528-291.000.

Seely, James E., to International Minerals & Chemical Corp. Protein recovery. 4,656,255, 4-7-87, Cl. 530-412.000.

Seely, James R.; and Hillstrom, David U., to Marketing Displays, Inc. Method of mounting universal mounting bracket for gas pump toppers. 4,648,169, 3-10-87, Cl. 29-526.00R.

Seely, James R.: *See*—
Grewe, Ronald E.; Hillstrom, David U.; Seely, James R.; and Ursprung, Cecil, 4,691,892, Cl. 248-624.000.

Seely, Michael J.: *See*—
Suresh, Dev D.; Zagata, Robert J.; Friedrich, Maria S.; and Seely, Michael J., 4,659,689, Cl. 502-311.000.

Seeman, Bronislaw, to Schlumberger Technology Corporation. Method and apparatus for deactivating a partially flooded perforating gun assembly. 4,649,822, 3-17-87, Cl. 102-275.100.

Seeman, Bronislaw; and Froelich, Benoit G. L., to Schlumberger Technology Corporation. Method and apparatus for acoustically measuring the transverse dimensions of a borehole. 4,661,933, 4-28-87, Cl. 367-27.000.

Seeman, Ronald D., to Rainey, Patrica G., a part interest. Bedclothes retainer. 4,662,016, 5-5-87, Cl. 5-508.000.

Seemann, Norbert: *See*—
Gahlau, Heinemann; Hoffmann, Manfred; and Seemann, Norbert, 4,705,139, Cl. 181-290.000.

Seemuller, Ursula; Dodt, Johannes; and Fritz, Hans, to Plantorganwerk KG; and Ciba-Geigy Corporation. Modified protease inhibitors, process for their preparation, and pharmaceutical compositions prepared therefrom. 4,636,489, 1-13-87, Cl. 514-12.000.

Seemuller, Ursula: *See*—
Fritz, Hans; Dodt, Johannes; Seemuller, Ursula; and Fink, Ernst, 4,654,302, Cl. 435-70.000.

Seepe, John E.; and Vest, Glenn E., to General Electric Company. Self-propelled traction vehicle with low fuel consumption while idling. 4,665,319, 5-12-87, Cl. 290-3.000.

Seeq Technology, Inc.: *See*—
Gupta, Anil, 4,673,829, Cl. 307-296.00A.
Perlegos, Gust; and Wu, Tsung-Ching, 4,701,776, Cl. 357-23.500.

Seestrom, Frank E., to Pitney Bowes Inc. Hand held labeler having an optical reader. 4,652,317, 3-24-87, Cl. 156-64.000.

Seetaram, Joan P. Stud anchor. 4,688,977, 8-25-87, Cl. 411-45.000.

Seevers, Daniel B.; and Rohulich, John J., to NCR Corporation. Sound generating system for a keyboard. 4,694,725, 9-22-87, Cl. 84-1.270.

Seevers, Daniel B.: *See*—
Kelch, Russell K.; Finfrock, Don C.; Girard, Donald J.; Seevers, Daniel B.; Briggs, Barry D.; and Mathes, Gene R., 4,683,531, Cl. 364-200.000.

Seevinck, Evert; Wassenaar, Roelof F.; and Holle, Eerke, to U.S. Philips Corporation. Voltage-current converter. 4,682,098, 7-21-87, Cl. 323-315.000.

Seffler, Hans-Werner: *See*—
Bucher, Hans; Heinrich, Richard; Hermann, Waldemar; and Seffler, Hans-Werner, 4,650,196, Cl. 277-152.000.

Segal, Brahm R. Semi-conductor transformerless audio amplifier. 4,713,629, 12-15-87, Cl. 330-263.000.

Segal, David M.; and Perez, Pilar, to United States of America, Health and Human Services. Target specific cross-linked heteroantibodies. 4,676,980, 6-30-87, Cl. 424-85.000.

Segal, Ester; and Lehrer, Nurit, to Ramot University Authority for Applied Research and Industrial Development Ltd. Topical pharmaceutical preparations containing chitin soluble extract. 4,701,444, 10-20-87, Cl. 514-55.000.

Segal, Henry P.; and Dewilde, Carl, to Siemens Aktiengesellschaft. Digital multiplexer for PCM voice channels having a cross-connect capability. 4,685,101, 8-4-87, Cl. 370-84.000.

Segal, Henry P.; and DeWilde, Carl A., to Siemens Aktiengesellschaft. Digital carrier channel bus interface module for a multiplexer having a cross-connect bus system. 4,697,262, 9-29-87, Cl. 370-84.000.

Segal, Marcos, to Hoechst Aktiengesellschaft. Water-soluble pyridone monoazo compounds suitable as fiber reactive dyestuffs. 4,659,807, 4-21-87, Cl. 534-642.000.

Segal, Marcos; and Kunze, Michael. Water-soluble disazo compounds containing one or two (nitro-phenylamino)-phenylamino-chlorotriazinylamino groups, the nitro-phenylamino being additionally substituted by a fiber-reactive group of the vinylsulfone series, suitable as dyestuffs. 4,701,523, 10-20-87, Cl. 534-634.000.

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Segal, Marcos: *See*—
Hahnke, Manfred; and Segal, Marcos, 4,705,524, Cl. 8-527.000.

Segal, Martin: *See*—
Arzberger, William; Warren, Wayne; Riley, Michael; and Segal, Martin, 4,703,770, Cl. 137-88.000.

Segal, Michael G.: *See*—
Wood, Christopher J.; Bradbury, David; Swan, Timothy; Segal, Michael G.; and Sellers, Robin M., 4,705,573, Cl. 134-3.000.

Segal, Ruth; Pisapty, Sara; and Azaz, Emma, to Yissum Research Development Company of the Hebrew University of Jerusalem. Compositions containing glycyrrhizin. 4,678,772, 7-7-87, Cl. 514-25.000.

Segall, Peter L. Floppy disk directory envelope form. 4,708,285, 11-24-87, Cl. 229-68.00R.

Segalowitz, Ivar R.: *See*—
DePasquale, John A.; Segalowitz, Ivar R.; and Andolfi, Ceasar P., 4,712,359, Cl. 53-460.000.

Segan, Marc H. Music and lights Christmas ball ornament. 4,652,980, 3-24-87, Cl. 362-86.000.

Segard, Emile; and Monceaux, Philippe, to Chambre Regionale d'Agriculture de Picardie. Process for producing protein aliments and various by products from cereals. 4,636,390, 1-13-87, Cl. 426-18.000.

Segarra, Gerard, to U.S. Philips Corporation. Communication network in which at least one station comprises a determination-type message filtering device. 4,661,951, 4-28-87, Cl. 370-85.000.

Segarra, Juan B. M. Positioning device for the installation of door frames, window frames or the like. 4,715,590, 12-29-87, Cl. 269-76.000.

Segatz, Wilhelm, to ARA-Werk Kraemer GmbH & Co. Hand-operated implement for discharging pasty substances. 4,655,595, 8-11-87, Cl. 222-326.000.

Segawa, Hideo, to Ricoh Company, Ltd. Optical switch array. 4,648,686, 3-10-87, Cl. 350-96.130.

Segawa, Kayoko: *See*—
Abe, Kazunobu; Aoki, Masashi; Rikimaru, Hiroaki; Ito, Takeshi; Hidaka, Kazuhisa; and Segawa, Kayoko, 4,643,984, Cl. 501-134.000.

Segawa, Keiji; Imaoka, Hirofumi; Kinjo, Hisao; and Sakuai, Toshiya, to Victor Company of Japan, Ltd. Magnetic recording and/or reproducing element. 4,675,765, 6-23-87, Cl. 360-122.000.

Segawa, Makoto; and Arituzmi, Shoji, to Kabushiki Kaisha Toshiba. Redundancy circuit for a semiconductor memory device. 4,648,075, 3-3-87, Cl. 365-200.000.

Segawa, Makoto: *See*—
Arituzmi, Shoji; and Segawa, Makoto, 4,673,969, Cl. 357-71.000.

Segawa, Noboru: *See*—
Ueno, Mitsushi; Shirogami, Tamotsu; and Segawa, Noboru, 4,661,423, Cl. 429-41.000.

Segawa, Takashi; and Tsuboi, Kunio, to Sony Corporation. Method for forming articles by injection molding. 4,707,321, 11-17-87, Cl. 264-294.000.

Segawa, Yutaka: *See*—
Kida, Otojiro; and Segawa, Yutaka, 4,636,481, Cl. 501-96.000.
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Segebrecht, Udo; and Auschrat, Siegfried, to Sihi GmbH & Co. KG. Liquid-ring compressor unit. 4,710,105, 12-1-87, Cl. 417-68.000.

Segerstrom, Lars H., to IMO AB. Hydraulic screw machine. 4,637,787, 1-20-87, Cl. 418-203.000.

Segger, Bernd, to Siemens Aktiengesellschaft. Primary switched-mode power supply unit. 4,716,488, 12-29-87, Cl. 361-88.000.

Seghatoleslami, Asadolah: *See*—
Sajor, Michael E.; and Seghatoleslami, Asadolah, 4,646,332, Cl. 377-124.000.

Seghetti, Leland L.: *See*—
Philpot, James R.; Pinkston, Steve R.; and Seghetti, Leland L., 4,655,246, Cl. 137-505.110.

Segler, Siegfried: *See*—
Penza, Hans; Segler, Siegfried; Schmuck, Karl-Wilhelm; Adach, Dietrich; and Lindemann, Eckhard, 4,636,064, Cl. 355-73.000.

Segoshi, Toru; and Nomoto, Takasi, to Nissan Motor Co., Ltd. Automotive vehicle stoplight arrangement. 4,656,563, 4-7-87, Cl. 362-61.000.

Segoshi, Toru, to Nissan Motor Company, Limited. Lamp power supply control system for an automotive vehicle. 4,694,191, 9-15-87, Cl. 307-10.0LS.

Segre, Joseph P.; and Haavisto, John R., to Northrop Corporation. Thin film passive ring resonator laser gyro. 4,658,401, 4-14-87, Cl. 372-26.000.

Segrest, Jere P.; and Anantharamaiah, Gattadahalli M., to Research Corporation. Amphipatnic peptides. 4,643,988, 2-17-87, Cl. 514-12.000.

Segrist, Joseph S.; and Savino, Michael D. Dumbell position rack. 4,666,150, 5-19-87, Cl. 272-123.000.

Segroves, James L. Deep fat frying pot cooker holding and picnic table. 4,635,614, 1-13-87, Cl. 126-41.00R.

Seguchi, Tadao: *See—*
Morita, Yousuke; Seguchi, Tadao; Kojima, Takuji; and Tanaka, Ryuichi, 4,668,714, Cl. 523-136.000.

Seguin, Michael, to Cambridge Manufacturing Climate Control Products Inc. Heat recirculation apparatus and method. 4,655,278, 4-7-87, Cl. 165-2.000.

Seguin, Sylvain. Two-way mailing envelope. 4,669,652, 6-2-87, Cl. 229-73.000.

Segura, Jean L.: *See—*
Nouvelle, Robert; and Segura, Jean L., 4,685,651, Cl. 251-11.000.

Segura, Serge: *See—*
Angeray, Remi; Lanteri, Pierre; Mathia, Thomas; Jodelet, Francois; and Segura, Serge, 4,705,815, Cl. 521-160.000.

Seguret, Rene : *See—*
Hennuy, Jean; and Seguret, Rene , 4,671,461, Cl. 239-306.000.
Hennuy, Jean; and Seguret, Rene , 4,700,050, Cl. 219-438.000.

Seher Acquisition Corp.: *See—*
Hanula, Richard M., 4,637,518, Cl. 213-64.000.

Seher, Gero: *See—*
Michel, Wolfgang; Paul, Heinz; Kostler, Dieter; Wilhelm, Frank; Runamel, Andreas; Seher, Gero; Henze, Wilfried; Hander, Ralf; Heinemann, Jurgen; and Ossowski, Manfred, 4,652,430, Cl. 422-142.000.

Sehnem, Hans P.: *See—*
Arndt, Michael; and Sehnem, Hans P., 4,713,490, Cl. 564-225.000.

Sehern, Rhonda. Ladies competition suit. 4,635,640, 1-13-87, Cl. 128-438.000.

Sehr, Willibald, to MOBA-Electronic Gesellschaft fur Mobil-Automation mbH. Opto-electronic measuring receiver and method for controlling the opto-electronic measuring receiver. 4,693,598, 9-15-87, Cl. 356-4.000.

Sehrig, Peter: *See—*
Wilhelm, Wilhelm; and Sehrig, Peter, 4,634,994, Cl. 330-260.000.

Sehring, Richard; Buck, Wolfgang; Prokic-Immel, Ricarda; and Lust, Sigmund, to Celamerck GmbH & Co. KG. O,S-dialkyl-O-(substituted phenyl)-thiolphosphates as pesticides. 4,639,438, 1-27-87, Cl. 514-129.000.

Sehring, Richard H., to Sandoz, Inc. Preparation of 2,5-dichlorophenol. 4,670,610, 6-2-87, Cl. 568-774.000.

Sei, Hideo: *See—*
Shinoda, Tsutae; Miyashita, Yoshinori; Sugimoto, Yoshimi; Sei, Hideo; and Andoh, Shizuo, 4,697,123, Cl. 315-169.400.

Seib, Berthold; and Emrich, Helmut, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Safety device for a sheet-fed rotary press. 4,669,380, 6-2-87, Cl. 101-216.000.

Seib, Paul A.; and Liao, Ming-Long, to Kansas State University Research Foundation. Ascorbate 2-polyphosphate esters and method of making same. 4,647,672, 3-3-87, Cl. 549-222.000.

Seibel, Klaus: *See—*
Niederhauser, Alois; and Seibel, Klaus, 4,663,354, Cl. 514-649.000.

Seiber, Brian L.: *See—*
Curry, Bill P.; Jones, John H.; Seiber, Brian L.; Price, Lynwood L.; Powell, Homer M.; and Kiech, Earl L., 4,679,939, Cl. 356-336.000.

Seiberco Incorporated: *See—*
Horber, Ralph W., 4,687,961, Cl. 310-186.000.

Seibert, Bernd: *See—*
Haberland, Detlef; Langenwalter, Michael; Panzer, Klaus; Rosen, Hans G.; Spueter, Lothar; Spaeth, Werner; Seibert, Bernd; and Haltenorth, Helmut, 4,707,067, Cl. 350-96.200.

Seibert, Gerhard: *See—*
Latrell, Rudolf; Kirrstetter, Reiner; Schwab, Wilfried; Durckheimer, Walter; and Seibert, Gerhard, 4,647,556, Cl. 514-206.000.

Seibert, Wolfram; and Blum, Klaus-Dieter, to Alfred Teves GmbH. Method and brake system for traction control. 4,702,336, 10-27-87, Cl. 180-197.000.

Seibert, Wolfram; Ocvirk, Norbert; and Schonlau, Juergen, to Alfred Teves GmbH. Hydraulic brake system with hydraulic brake force boosting. 4,708,404, 11-24-87, Cl. 303-114.000.

Seibert, Wolfram: *See—*
Belart, Juan; Burgdorf, Jochen; Bleckmann, Hans W.; Weise, Lutz; and Seibert, Wolfram, 4,641,895, Cl. 303-119.000.
Belart, Juan; Weise, Lutz; and Seibert, Wolfram, 4,643,486, Cl. 303-114.000.
Belart, Juan; Fennel, Helmut; Seibert, Wolfram; and Batistic, Ivica, 4,643,492, Cl. 303-119.000.
Belart, Juan; Burgdorf, Jochen; Weise, Lutz; and Seibert, Wolfram, 4,685,747, Cl. 303-114.000.
Belart, Juan; Burgdorf, Jochen; and Seibert, Wolfram, 4,702,530, Cl. 303-10.000.
Belart, Juan; Seibert, Wolfram; and Ocvirk, Norbert, 4,703,978, Cl. 303-52.000.
Belart, Juan; Seibert, Wolfram; and Ocvirk, Norbert, 4,708,405, Cl. 303-114.000.

Seibold, James R.: *See—*
Janoff, Andrew S.; Ostro, Marc J.; Weiner, Alan L.; Weissmann, Gerald; and Seibold, James R., 4,668,638, Cl. 436-506.000.

Seibold, Juergen: *See—*
Pelzl, Leo; Seibold, Juergen; and Zell, Karl, 4,652,066, Cl. 339-17.01C.

Seibt, Artur: *See—*
Schmidt, Karl-Heinz; and Seibt, Artur, 4,682,090, Cl. 318-661.000.

Seibt, Horst: *See—*
Ballschuh, Detlef; Seibt, Horst; Rusche, Jochen; and Ohme, Roland, 4,687,602, Cl. 260-501.120.

Seihu Polymer Kasei Kabushiki Kaisha: *See—*
Maeda, Akiya; Sakai, Mituya; Masaka, Yukinobu; Nomura, Masahiro; Yamada, Yasuo; and Tatsuhama, Tetsuro, 4,711,501, Cl. 299-21.000.
Miyata, Nobuhiro, 4,652,854, Cl. 350-105.000.

Seidel, Albert; and Malburg, Werner, to Messerschmitt-Bolkow-Blohm GmbH. Controllable helium-II phase separator. 4,694,655, 9-22-87, Cl. 62-51.000.

Seidel, Dietrich: *See—*
Rosskopf, Gerhard; Seidel, Dietrich; and Wieland, Heinrich, 4,648,974, Cl. 210-651.000.

Seidel, Hans: *See—*
Elstner, Erich; Schleifer, Karl-Heinz; Gotz, Friedrich; Sedewitz, Barbara; Roder, Albert; Mollering, Hans; and Seidel, Hans, 4,666,832, Cl. 435-25.000.

Seidel, Harold, to American Telephone and Telegraph Company, AT&T Bell Laboratories. Switching type voltage regulator with noncontinuous feedback. 4,704,671, 11-3-87, Cl. 363-56.000.

Seidel, Joachim: *See—*
Schultes, Tilmann; and Seidel, Joachim, 4,687,012, Cl. 135-75.000.

Seidel, Karl R., Jr.: *See—*
Kantrud, Steven G.; Ericson, Steven V.; and Seidel, Karl R., Jr., 4,714,150, Cl. 198-463.300.

Seidel, Manfred: *See—*
Ramloch, Herbert; Seidel, Manfred; Lause, Joachim; and Waldmann, Karl, 4,658,052, Cl. 560-155.000.

Seidel, Pessach. Solar heater. 4,685,445, 8-11-87, Cl. 126-434.000.

Seidel, Peter; Pelzl, Leo; and Zell, Karl, to Siemens Aktiengesellschaft. Device connecting the shielding of plugs to a subrack ground. 4,712,849, 12-15-87, Cl. 439-607.000.

Seidel, Raymond L.; and Viola, Marian, to Automatic Roller Doors Australia Pty. Ltd. Door or gate obstruction control. 4,701,684, 10-20-87, Cl. 318-282.000.

Seidel, Richard E. Swivel connector for hoists and the like. 4,699,410, 10-13-87, Cl. 294-1.100.

Seidel, Siegfried: *See—*
Meusel, Otto; Seidel, Siegfried; Muench, Heinz-Dieter; and Deinhardt, Guenther, 4,672,511, Cl. 361-415.000.

Seidel, Thomas E.: *See—*
Lebowitz, Joseph; and Seidel, Thomas E., 4,653,177, Cl. 29-578.000.
Lynch, William T.; and Seidel, Thomas E., 4,643,804, Cl. 204-15.000.

Seidel, William E., to Sundstrand Corporation. Pilot operated valve. 4,669,700, 6-2-87, Cl. 251-28.000.

Seidel, Wolfgang: *See—*
Gohler, Peter; Mangler, Rolf; Schingnitz, Manfred; Seidel, Wolfgang; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Gamburg, David, 4,710,202, Cl. 48-73.000.

Seiden, Paul, to Procter & Gamble Co., The. Dual-textured cookie products containing narrow melting range shortenings. 4,664,921, 5-12-87, Cl. 426-94.000.

Seiden, Paul; and Mishkin, Martin A., to Procter & Gamble Company, The. Emulsifier formulation for cookies. 4,680,184, 7-14-87, Cl. 426-654.000.

Seiden, Paul: *See—*
Young, Jerry D.; and Seiden, Paul, 4,650,686, Cl. 426-321.000.

Seidenspinner, Hubert-Matthias: *See—*
Voss, Gunter; and Seidenspinner, Hubert-Matthias, 4,675,050, Cl. 106-1.170.

Seidensticker, Ralph W.: *See—*
Butelbach, James P.; Kann, William J.; Pan, Yen-Cheng; Saiveau, James G.; and Seidensticker, Ralph W., 4,645,638, Cl. 376-254.000.

Seider, Robert J.; Guichelaar, Philip J.; and Anderson, Robert O., to Kennecott Corporation. Production of silicon carbide with automatic separation of a high grade fraction. 4,659,022, 4-21-87, Cl. 241-23.000.

Seider, Robert J.; Guichelaar, Philip J.; and Anderson, Robert O., to Electro Minerals (Canada), Inc. Automatic method for separating and cleaning silicon carbide furnace materials. 4,686,032, 8-11-87, Cl. 209-8.000.

Seidl, Alfred: *See—*
Strinzel, Horst; and Seidl, Alfred, 4,658,665, Cl. 74-467.000.

Seidl, Gunther, to Zahnradfabrik Friedrichshafen, AG. Regulation of vane pumps. 4,701,111, 10-20-87, Cl. 417-300.000.

Seidl, Horst: *See—*
Dabringhaus, Volker; Dietz, Gunter; Wegel, Peter; Bowman, H. David; Korber, Jurgen; and Seidl, Horst, 4,676,544, Cl. 296-37.900.

Seidl, Jiri, to Bayerische Motoren Werke Aktiengesellschaft. Timing case for a cylinder head of internal combustion engines having gas changing valves arranged essentially in parallel to one another. 4,711,203, 12-8-87, Cl. 123-90.340.

Seidl, Thomas L.: *See—*
Huffman, Joseph G.; and Seidl, Thomas L., 4,706,908, Cl. 244-118.500.

Seidler, Horst: *See*—
Ley, Hans; Neumock, Udo; Scholz, Peter; Seidler, Horst; Berghaus, Horst; and Schmidt, Manfred, 4,648,295, Cl. 82-18.000.
Seidler, Jack, to North America.: Specialties Corp. Heat sink formed of stacked fin elements. 4,669,535, 6-2-87, Cl. 165-78.000.
Seidler, Jack; and Taylor, Robert N., to North American Specialties Corp. Electrical connector. 4,671,602, 6-9-87, Cl. 439-857.000.
Seidler, Jack, to North American Specialties Corporation. Solder-bearing leads. 4,679,889, 7-14-87, Cl. 439-876.000.
Seidler, Jack, to North American Specialties Corp. Edge clip and terminal. 4,697,865, 10-6-87, Cl. 439-851.000.
Seidler, Jack, to North American Specialties Corp. Terminal strip with attached support and method of manufacture. 4,712,850, 12-15-87, Cl. 439-861.000.
Seidon, Arnold: *See*—
Brandsetter, Robert W.; Schwarz, Jakob; and Seidon, Arnold, 4,679,048, Cl. 342-61.000.
Seifag S.r.l.: *See*—
Marocco, Giuseppe, 4,640,850, Cl. 428-15.000.
Seifert, Hans-Karl, to TELEFUNKEN electronic GmbH. Logic for a peak value store. 4,686,389, 8-11-87, Cl. 307-351.000.
Seifert, Josef, to Kurz Kunstoffe GmbH. Method and device for storing flat recording media. 4,702,533, 10-27-87, Cl. 312-12.000.
Seifert, Peter: *See*—
Dietrich, Manfred; Konig, Klaus; Hettel, Hans; Seifert, Peter; and Vehlewald, Peter, 4,668,734, Cl. 524-714.000.
Seifert, Rolf; and Schlicker, Volker, to Ing. Rolf Seifert Electronic GmbH. Temperature switch mounting means for a function-monitoring fan. 4,653,988, 3-31-87, Cl. 416-39.000.
Seiferth, Oscar E., to James River Corporation. Food receptacle for microwave cooking. 4,641,005, 2-3-87, Cl. 219-10.55E.
Seiffarth, Ernst A.: *See*—
Halldorsson, Thorsteinn; Manhart, Sigmnund; and Seiffarth, Ernst A., 4,674,874, Cl. 356-152.000.
Halldorsson, Thorsteinn; and Seiffarth, Ernst A., 4,682,024, Cl. 250-225.000.
Seiffert, Cindy: *See*—
Osborne, Joseph A.; and Seiffert, Cindy, 4,665,436, Cl. 358-136.000.
Seiffge, Dirk: *See*—
Weithmann, Klaus U.; and Seiffge, Dirk, 4,694,024, Cl. 514-161.000.
Seifried, Walter; and Crass, Guenther, to Hoechst Aktiengesellschaft. Polypropylene adhesive tape. 4,716,068, 12-29-87, Cl. 428-141.000.
Seigenji, Kiyoshi: *See*—
Hoda, Takeo; Taniguchi, Nobuyuki; and Seigenji, Kiyoshi, 4,676,616, Cl. 354-21.000.
Tanii, Junichi; Yamaki, Toshio; and Seigenji, Kiyoshi, 4,687,266, Cl. 439-77.000.
Seiger, Harvey N., to Gould Inc. Bipolar electrode formation. 4,681,663, 7-21-87, Cl. 204-21.000.
Seiger, Harvey N., to Gould Inc. Electrode formation. 4,704,194, 11-3-87, Cl. 204-2.100.
Seighman, Jon L., to Durkee Industrial Foods Corp. Process for encapsulating liquid acids and product. 4,713,251, 12-15-87, Cl. 426-96.000.
Seigneurin, Michel, to Micro Mega S.A. Dental handpiece contra-angle head. 4,661,062, 4-28-87, Cl. 433-128.000.
Seigneurin, Michel: *See*—
Henri, Leonard; and Seigneurin, Michel, 4,710,178, Cl. 604-209.000.
Luiset, Jean-Jacques; and Seigneurin, Michel, 4,673,351, Cl. 433-29.000.
Luiset, Jean-Jacques; and Seigneurin, Michel, 4,690,641, Cl. 433-129.000.
Seijiro, Sasai; Tadanobu, Fujimoto; and Kyozo, Tsukamoto, to Director-General of Agency of Industrial Science and Technology. Composition for cell cultivation, production and use thereof. 4,654,304, 3-31-87, Cl. 435-240.000.
Seikagaku Kogyo Co. Ltd.: *See*—
Sakurai, Katukiyo; Ueno, Yoshio; and Okuyama, Takashi, 4,716,224, Cl. 536-55.100.
Seike, Noboru; Teranishi, Masatoshi; and Sakai, Minoru, to Snow Brand Milk Products Co., Ltd. Embryo transferring apparatus adapted for endoscope. 4,653,475, 3-31-87, Cl. 128-4.000.
Seike, Shinji: *See*—
Hatamura, Kouichi; Hiraoka, Tetsuo; Hokazono, Kazuaki; and Seike, Shinji, 4,708,097, Cl. 123-52.00M.
Seike, Shoji; Totoki, Takao; and Kaneko, Akio, to NGK Insulators, Ltd. Porcelain electrical insulator resistant to destruction by projectiles. 4,689,445, 8-25-87, Cl. 174-212.000.
Seiken Co., Ltd.: *See*—
Takeuchi, Masatoshi; and Hamagaki, Takayasu, 4,715,150, Cl. 51-395.000.
Seikisui Kagaku Kogyo Kabushiki Kaisha: *See*—
Bando, Yoshiaki; Asano, Teruyoshi; Kato, Shigenobu; and Taniока, Katsuhiko, 4,678,161, Cl. 251-171.000.
Seiko Engineering and Research Co. Ltd.: *See*—
Yoshida, Yoshiichi, 4,643,664, Cl. 425-549.000.
Seiko Epson Corporation: *See*—
Aoki, Kenji; Takei, Katsumori; Nakamura, Haruo; and Matsushita, Yoshikazu, 4,671,616, Cl. 350-331.00R.
Hayashi, Seiichi; Nakamura, Takashi; and Tanabe, Hisayuki, 4,710,782, Cl. 346-76.00R.
Iwashita, Yukiniro; and Ueno, Kotaro, 4,660,935, Cl. 350-336.000.
Iwashita, Yukihiro; and Okumura, Hideaki, 4,715,686, Cl. 350-339.00R.
Kawamura, Yoshikazu; Hosokawa, Minoru; Okazaki, Sakiho; and Ishii, Hiroshi, 4,715,725, Cl. 368-157.000.
Minowa, Masahiro, 4,714,363, Cl. 400-322.000.
Morozumi, Shinji, 4,653,862, Cl. 350-339.00F.
Ohshima, Keiichi, 4,712,931, Cl. 400-196.100.
Suzawa, Osamu, 4,659,183, Cl. 350-345.000.
Seiko Epson Kabushiki Kaisha: *See*—
Arai, Kenichiro, 4,707,154, Cl. 400-185.000.
Hattori, Noboru, 4,636,866, Cl. 358-236.000.
Hayashi, Seiichi; Takei, Katsumori; Usui, Takahiro; Yamaguchi, Yoshitaka; and Taniguchi, Makoto, 4,636,258, Cl. 106-31.000.
Hayashi, Seiichi; Takei, Katsumori; and Yamaguchi, Yoshitaka, 4,684,563, Cl. 428-207.000.
Hoshikawa, Jun, 4,709,991, Cl. 350-339.00R.
Hosokawa, Minoru, 4,675,224, Cl. 428-65.000.
Kato, Juri, 4,669,176, Cl. 29-571.000.
Maezawa, Shuji, 4,660,030, Cl. 340-784.000.
Matsuo, Nobutaka; Motoki, Masanobu; Itoh, Yoshitaka; Kanbe, Sadao; and Osafune, Haruo, 4,680,046, Cl. 65-17.000.
Mikoshiba, Hitoshi, 4,683,819, Cl. 101-93.220.
Morozumi, Shinji, 4,716,403, Cl. 340-702.000.
Motoki, Masanobu; Matsuo, Nobutaka; Kanbe, Sadao; Osafune, Haruo; and Itoh, Yoshitaka, 4,680,048, Cl. 65-17.000.
Murakami, Kenjiro, 4,708,502, Cl. 400-175.000.
Naka, Takahiro, 4,684,963, Cl. 346-140.00R.
Nakagawa, Hitoshi; and Kitahara, Kohei, 4,691,911, Cl. 271-9.000.
Nakamura, Hariо, 4,704,616, Cl. 346-76.0PH.
Nishiwaki, Tsutomu, 4,684,960, Cl. 346-76.0PH.
Oguchi, Koichi; Hosokawa, Minoru; Yazawa, Satoru; and Nagata, Mitsuo, 4,648,691, Cl. 350-338.000.
Ohno, Yoshihiro, 4,666,078, Cl. 228-124.000.
Ono, Yoichi, 4,683,183, Cl. 430-20.000.
Osafune, Haruo; Kanbe, Sadao; Mori, Toshiharu; and Ikeda, Masahisa, 4,680,045, Cl. 65-17.000.
Sakuma, Kunio, 4,644,445, Cl. 361-398.000.
Sakurai, Yoshiyuki, 4,684,270, Cl. 400-121.000.
Shinohara, Toshihide, 4,640,593, Cl. 351-169.000.
Shionozaki, Yoshio; Mukai, Hiroshi; Obikawa, Tsuyoshi; and Yamada, Shuhei, 4,684,220, Cl. 350-350.00R.
Toki, Motoyuki; Kanbe, Sadao; Miyashita, Satoru; and Takeuchi, Tetsuhiko, 4,681,615, Cl. 65-18.100.
Toyoda, Mitsuru, 4,635,128, Cl. 358-236.000.
Wakai, Yoichi; and Chihara, Hiroyuki, 4,646,157, Cl. 358-236.000.
Yazaki, Minoru; and Sato, Yuzuru, 4,701,026, Cl. 350-333.000.
Seiko Instruments & Electronics Ltd.: *See*—
Fukushima, Toshitaka, 4,635,645, Cl. 128-680.000.
Harada, Takamasa; Taguchi, Masaaki; and Ito, Kokichi, 4,662,721, Cl. 350-339.00R.
Harada, Takamasa; and Taguchi, Masaaki, 4,693,563, Cl. 350-350.00S.
Hirano, Shinichi, 4,685,995, Cl. 156-623.00R.
Inoue, Yuichi, 4,673,857, Cl. 318-696.000.
Inoue, Yuichi, 4,678,344, Cl. 368-69.000.
Ishimaru, Hajime; Miyamoto, Masao; and Komaki, Shojiro, 4,715,186, Cl. 62-45.000.
Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji, 4,670,188, Cl. 252-513.000.
Kishi, Matsuo; Ogawa, Kenichi; and Ikeno, Hiroshige, 4,699,850, Cl. 428-469.000.
Kiyono, Yoshihiko, 4,688,948, Cl. 368-157.000.
Kyogoku, Hideaki; and Kaito, Takashi, 4,704,526, Cl. 250-307.000.
Matsuura, Eiichi; and Tsukada, Nobuo, 4,645,356, Cl. 368-160.000.
Morita, Yoshiyuki, 4,692,568, Cl. 178-19.000.
Nagai, Masahide; Noda, Minoru; and Suzuki, Hitoshi, 4,701,100, Cl. 414-751.000.
Nanno, Ikuo; Morimoto, Yasuaki; Hoshi, Seiji; Waku, Shinji; and Hoshi, Hideo, 4,650,294, Cl. 350-484.000.
Ochiai, Hitoshi, 4,709,200, Cl. 320-1.000.
Odagiri, Hiroshi; and Nishida, Isamu, 4,690,568, Cl. 368-204.000.
Ohtawa, Shuzi, 4,702,613, Cl. 368-66.000.
Saeki, Shinji, 4,670,627, Cl. 178-18.000.
Sasaki, Issei, 4,640,615, Cl. 356-130.000.
Suginoya, Mitsuru; Iwasa, Koji; Kamamori, Hitoshi; Sano, Yutaka; and Terada, Yumiko, 4,639,088, Cl. 350-339.00F.
Suginoya, Mitsuru; Iwasa, Koji; Kamamori, Hitoshi; Sano, Yutaka; and Terada, Yumiko, 4,704,559, Cl. 315-169.100.
Suzuki, Hayao; and Matsuoka, Yoshiharu, 4,659,971, Cl. 318-568.000.
Suzuki, Hayao; and Matsuoka, Yoshiharu, 4,694,232, Cl. 318-568.000.
Taguchi, Masaaki; and Suenaga, Hitoshi, 4,643,842, Cl. 252-299.670.
Taguchi, Masaaki; and Suenaga, Hitoshi, 4,710,585, Cl. 560-64.000.
Tamura, Fujio, 4,638,664, Cl. 73-384.000.
Tanaka, Fumihiro; Shimada, Yoshio; Yamaguchi, Kaneo; Matsushima, Kenichi; and Watanabe, Shinya, 4,713,691, Cl. 358-148.000.
Watanabe, Fumio; Komaki, Shojiro; Miyamoto, Masao; and Ito, Takao, 4,695,724, Cl. 250-292.000.
Watanabe, Shinya; Tanaka, Fumihiro; Yamaguchi, Kaneo; Shimada, Yoshio; and Matsushima, Kenichi, 4,713,690, Cl. 358-148.000.
Yamazaki, Tsuneo; Motte, Shunichi; and Shimbo, Masafumi, 4,705,358, Cl. 350-334.000.
Yokose, Kazutoshi, 4,699,563, Cl. 414-744.00A.

Seiko Instruments Inc.: *See*—
Harada, Takamasa; Tagushi, Masaaki; and Iwasa, Koji, 4,715,688, Cl. 350-350.00S.
Nagai, Masahide; and Yokose, Kazutoshi, 4,685,862, Cl. 414-744.00A.
Seiko Koki Kabushiki Kaisha: *See*—
Ishida, Hiroaki, 4,650,306, Cl. 354-238.100.
Nagaoka, Shinji, 4,648,700, Cl. 350-403.000.
Nagaoka, Shinji, 4,655,568, Cl. 350-321.000.
Ogihara, Masuo; Ishida, Hiroaki; Nagaoka, Shinji; and Sato, Koji, 4,634,254, Cl. 354-403.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,648,701, Cl. 354-439.000.
Satto, Takeo; and Nagaoka, Shinji, 4,660,949, Cl. 354-21.000.
Seiko Seiki Kabushiki Kaisha: *See*—
Higuchi, Toshiro; Mizuno, Takeshi; and Aikawa, Noboru, 4,642,500, Cl. 310-90.500.
Inoue, Akira; Nomura, Shinichi; and Hanami, Osamu, 4,683,408, Cl. 318-696.000.
Ishizawa, Tadao; Kotaka, Hirofumi; and Kakinuma, Masami, 4,697,994, Cl. 418-8.000.
Kogure, Toshiharu; and Masubuchi, Noriaki, 4,658,944, Cl. 192-84.0PM.
Matsuno, Takeshi, 4,636,904, Cl. 360-133.000.
Miki, Masaharu, 4,655,678, Cl. 415-71.000.
Nagata, Tetsuya, 4,648,213, Cl. 51-166.00R.
Nagata, Tetsuya; and Ohashi, Osamu, 4,688,354, Cl. 51-165.800.
Oshima, Jinichiro, 4,713,914, Cl. 51-281.00P.
Sugita, Terumitsu; Shinozuka, Hideo; and Murayama, Koji, 4,708,598, Cl. 417-295.000.
Seikoh Giken Co., Ltd.: *See*—
Takahashi, Mitsuo, 4,715,804, Cl. 425-141.000.
Seikosha Co., Ltd.: *See*—
Hanya, Masao, 4,707,143, Cl. 368-165.000.
Hayashi, Mikio; and Inoue, Haruo, 4,704,041, Cl. 400-124.000.
Kaneko, Koichi; and Hanya, Masado, 4,692,031, Cl. 368-18.000.
Kizawa, Hiroyuki, 4,702,616, Cl. 368-223.000.
Kizawa, Hiroyuki, 4,706,238, Cl. 368-296.000.
Kizawa, Hiroyuki, 4,711,586, Cl. 368-232.000.
Konno, Tetsuro; Kanai, Yutaka; and Fujita, Tetsuya, 4,678,313, Cl. 355-3.00R.
Moritani, Nakanobu; Sugita, Mitsuyuki; Hoshino, Isamu; Yanagi, Hirofumi; Ikeno, Hitoshi; and Konno, Tetsuro, 4,709,218, Cl. 331-116.0FE.
Mukoyama, Masumi, 4,666,312, Cl. 368-179.000.
Mukoyama, Masumi, 4,707,144, Cl. 368-165.000.
Ogihara, Masuo; and Ishikawa, Tadashi, 4,657,404, Cl. 368-74.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,693,583, Cl. 354-439.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,696,560, Cl. 354-439.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,697,908, Cl. 354-439.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,702,579, Cl. 354-21.000.
Shimada, Tatsuo; Chida, Yoshinori; and Tada, Satoru, 4,643,596, Cl. 400-121.000.
Shimozono, Shigeru, 4,665,335, Cl. 310-163.000.
Shimozono, Shigeru, 4,678,346, Cl. 368-157.000.
Sugita, Mitsuyuki; and Hoshino, Isamu, 4,710,731, Cl. 331-158.000.
Tajima, Akio, 4,688,958, Cl. 400-636.300.
Yamaki, Masahiko, 4,709,309, Cl. 362-199.000.
Yoshizawa, Keiichi, 4,693,612, Cl. 368-74.000.
Seiler, Erhard; Hambrecht, Juergen; and Heinz, Gerhard, to BASF Aktiengesellschaft. Self-extinguishing thermoplastic polyester molding materials. 4,672,086, 6-9-87, Cl. 524-127.000.
Seiler, Erhard: *See*—
Steinberger, Rolf; Schlag, Johannes; Schlichting, Karl; Seiler, Erhard; Von Tomkewitsch, Sibylle; and Schmidt, Hans-Friedrich, 4,655,964, Cl. 252-511.000.
Seiler, Louis, Jr.; and Rosenbluth, Robert F., to Shiley Inc. Method of preparing a vascular graft prosthesis. 4,647,416, 2-3-87, Cl. 264-118.000.
Seiler, Max P., to Sandoz Ltd. Pharmaceutical active 1,2,3,4,4A,5,10,-10A-octahydrobenzo[g] quinoline derivatives, and their use. 4,692,453, 9-8-87, Cl. 514-290.000.
Seiler, Max P.: *See*—
Hagenbach, Alexander; Seiler, Max P.; and Wuthrich, Hans J., 4,634,708, Cl. 514-280.000.
Seiler, Norman C.; and Walker, Stephen S., to Harris Corporation. Speech data encoding scheme. 4,703,505, 10-27-87, Cl. 381-51.000.
Seiler, Ronald R.: *See*—
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Seilinger, Alexandre. Apparatus for producing hot air for inhalations. 4,643,183, 2-17-87, Cl. 128-204.170.
Seim, Burkhart; and Eicker, Karl-Georg, to K. A. Schmersal GmbH & Co. Electric switch. 4,658,102, 4-14-87, Cl. 200-17.00R.
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Sorlien, Mark D.; Filreis, Manuel; and Seim, William J., 4,657,321, Cl. 339-14.00R.
Seima Italiana S.p.A.: *See*—
Cossetti, Giuliano, 4,678,258, Cl. 439-571.000.
Seimetz, Glen R.: *See*—
Boland, Donald P.; Menz, William; and Seimetz, Glen R., 4,635,983, Cl. 293-111.100.
Seimiya, Ryubun: *See*—
Yano, Hidetoshi; Seimiya, Ryubun; Tarumi, Noriyoshi; Demizu, Hiromi; and Obu, Makoto, 4,696,255, Cl. 118-653.000.
Seiner, Jerome A.; and Schappert, Raymond F., to PPG Industries, Inc. Use of a polyamide to thicken an amine. 4,652,492, 3-24-87, Cl. 428-414.000.
Seiner, Jerome A.: *See*—
Das, Suryya K.; Seiner, Jerome A.; Greigger, Paul P.; Jones, James E.; Schappert, Raymond F.; and Boberski, William G., 4,652,470, Cl. 427-407.100.
Das, Suryya K.; Seiner, Jerome A.; Greigger, Paul P.; Jones, James E.; Schappert, Raymond F.; and Boberski, William G., 4,677,004, Cl. 427-407.100.
Das, Suryya K.; Seiner, Jerome A.; Greigger, Paul P.; Jones, James E.; Schappert, Raymond F.; and Boberski, William G., 4,680,204, Cl. 427-407.100.
Hodek, Robert B.; and Seiner, Jerome A., 4,683,344, Cl. 568-716.000.
Schimmel, Karl F.; Ward, Thomas A.; and Seiner, Jerome A., 4,684,710, Cl. 528-26.000.
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Seino, Masanori, to Shin-Etsu Chemical Co., Ltd. Organopolysiloxane composition for fire-resistant foamed silicone rubber. 4,695,597, 9-22-87, Cl. 521-154.000.
Seino, Mituyoshi: *See*—
Matsumoto, Norio; Okuda, Shinya; Ohkuma, Osamu; and Seino, Mituyoshi, 4,641,980, Cl. 400-120.000.
Seio, Mamoru: *See*—
Ishikawa, Katsukiyo; Nishijima, Kanji; and Seio, Mamoru, 4,671,854, Cl. 156-659.100.
Ishikawa, Katsukiyo; Nishijima, Kanji; and Seio, Mamoru, 4,673,458, Cl. 156-659.100.
Seipke, Gerhard: *See*—
Bicker, Richard; and Seipke, Gerhard, 4,644,057, Cl. 530-409.000.
Seiscor Technologies, Inc.: *See*—
Dively, Lee V.; and Grubbs, Jack M., 4,698,840, Cl. 379-112.000.
Wortman, Donald W., 4,663,580, Cl. 320-35.000.
Seiss, Randolph H.; and Yonkers, Edward H., to Dow Chemical Company, The. Polyethylene/EPDM-graft polystyrene blends. 4,716,197, 12-29-87, Cl. 525-75.000.
Seissl, Johann: *See*—
Pfeiler, Manfred; Seissl, Johann; and Block, Peter C., 4,709,385, Cl. 378-99.000.
Seita, Toru; Satoh, Takao; and Kikuchi, Mitsuo, to Toyo Soda Manufacturing Co., Ltd. Method for manufacturing cation exchange membrane. 4,693,796, 9-15-87, Cl. 204-98.000.
Seita, Toru: *See*—
Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; Kondo, Kiyosi; Akimoto, Akira; Seita, Toru; and Watanabe, Hiroyuki, 4,659,744, Cl. 521-32.000.
Seita, Yukio: *See*—
Ichikawa, Toshiji; Takahara, Kazuaki; Shimoda, Kazuhiro; Seita, Yukio; and Emi, Makoto, 4,708,800, Cl. 210-500.230.
Seite, Guy: *See*—
Plessis, Andre; and Seite, Guy, 4,675,892, Cl. 378-145.000.
Seiter, George M.; Klitzke, Loren J.; and Nelson, Iver L., to Waldorf Corporation. Extraction cell. 4,643,878, 2-17-87, Cl. 422-101.000.
Seiter, Wolfgang; Wegener, Ingo; and Reuter, Herbert, to Henkel Kommanditgesellschaft auf Aktien. Process for the production of a spray-dried nonionic washing aid. 4,661,281, 4-28-87, Cl. 252-140.000.
Seiter, Wolfgang; Andree, Hans; and Berg, Markus, to Henkel Kommanditgesellschaft auf Aktien. Granular detergent of improved detergency containing 2 ethoxylated alcohols, an ethoxylated amine and an anionic. 4,675,124, 6-23-87, Cl. 252-91.000.
Seiter, Wolfgang; and Koch, Otto, to Henkel Kommanditgesellschaft auf Aktien. Granular adsorbent. 4,707,290, 11-17-87, Cl. 252-140.000.
Seitetsu Kagaku Co., Ltd.: *See*—
Haruna, Kazuo; and Hayashi, Saburo, 4,661,125, Cl. 55-26.000.
Haruna, Kazuo; Ueda, Kanji; and Uno, Masaru, 4,684,377, Cl. 55-26.000.
Haruna, Kazuo; and Shiozawa, Iwamitsu, 4,713,100, Cl. 55-387.000.
Inada, Shoshichiro; Furukawa, Kurune; Masui, Takachika; Honda, Keijiro; Ogasawara, Joji; and Tsubakimoto, Giichi, 4,714,791, Cl. 568-913.000.
Nakamura, Morio; Obayashi, Shigeji; Yamamoto, Takushi; Nakanishi, Toshikazu; Tanaka, Hitoshi; and Sakamoto, Yuji, 4,683,274, Cl. 526-216.000.
Seito, Shinichi: *See*—
Shirato, Yoshitaka; Komatsu, Toshiyuki; Seito, Shinichi; Kawai, Tatsundo; Iwamoto, Hirofumi; Nakagawa, Katsumi; and Kuroda, Yasuo, 4,680,644, Cl. 358-294.000.
Seitz Enzinger Noll Maschinenbau Aktiengesellschaft: *See*—
Becker, Hans F., 4,643,827, Cl. 210-228.000.
Bernhard, Herbert, 4,644,981, Cl. 141-39.000.
Born, Gerhard, 4,653,629, Cl. 198-452.000.
Born, Gerhard; and Kaiser, Klaus, 4,708,234, Cl. 198-453.000.
Seitz, Eugene W.: *See*—
Farbood, Mohamad I.; Morris, James A.; and Seitz, Eugene W., 4,657,862, Cl. 435-135.000.
Farbood, Mohamad I.; Morris, James A.; and Seitz, Eugene W., 4,686,307, Cl. 560-205.000.
Seitz-Filter-Werke Theo & Geo Seitz GmbH und Co.: *See*—
Keller, Egon, 4,671,873, Cl. 210-232.000.

Schroder, Jobst, 4,676,904, Cl. 210-504.000.

Seitz, Georg; and Wernicke, Rainer; to Merck Patent Gesellschaft mit beschrankter Haftung. Preparation of microcrystalline triacetylcellulose. 4,697,007, 9-29-87, Cl. 536-83.000.

Seitz, Herbert; and Frosch, Eugen; to H. Stoll GmbH. & Co. Dust extraction equipment for flat bed knitting machines. 4,667,489, 5-26-87, Cl. 66-168.000.

Seitz, Joachim: *See*—
Schoettle, Klaus; Berger, Heinz; Dietze, Herbert; and Seitz, Joachim, 4,656,549, Cl. 360-132.000.

Seitz, John A., to A. O. Smith Corporation. Drive motor bearing apparatus. 4,672,250, 6-9-87, Cl. 310-90.000.

Seitz, Karl, to Ciba-Geigy Corporation. Reactive disazo dyes and their use: containing two 2,4-difluoro-5-chloro-pyrimidyl residues. 4,647,286, 3-3-87, Cl. 8-549.000.

Seitz, Karl; Riat, Henri; and Hoc_erle, Karl, to Ciba-Geigy Corporation. Dyes, their preparation and use. 4,680,384, 7-14-87, Cl. 534-622.000.

Seitz, Karl, to Ciba-Geigy Corporation. Fibre-reactive dyes containing halopyrimidine radicals to which a vinylsulfonyl or the like group is attached by means of a bridge member. 4,709,018, 11-24-87, Cl. 534-618.000.

Seitz, Karl: *See*—
Scheibl, Peter; and Seitz, Karl, 4,713,082, Cl. 8-549.000.

Seitz, Paul W.; Lewis, Maurice W.; and Lakes, Stephen D., to NCR Corporation. Protective barrier and method of providing same for thermosensitive sheet. 4,641,159, 2-3-87, Cl. 346-200.000.

Seitz, William R.: *See*—
Frantom, Richard L.; Seitz, William R.; and Datwyler, Walter F., Jr., 4,655,312, Cl. 180-268.000.
Rennstadt, Douglas J.; and Seitz, William R., 4,694,145, Cl. 219-497.000.

Seiwa Instruments Manufacturing Co., Ltd.: *See*—
Iwaoka, Nobuo, 4,674,847, Cl. 350-552.000.

Seiwa Technological Laboratories Limited: *See*—
Fukazawa, Ryutaro; Kodama, Susumu; and Sato, Mieko, 4,675,395, Cl. 536-103.000.

Seiwa, Yoshito; and Takamiya, Saburo, to Mitsubishi Denki Kabushiki Kaisha. Laser diode. 4,701,926, 10-20-87, Cl. 372-45.000.

Seiwatz, Henry, to GAF Corporation. Reduction of deflection errors in E-beam recording. 4,668,609, 5-26-87, Cl. 430-296.000.

Seiz, Carl G.: *See*—
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Seiz Corporation: *See*—
Seiz, Frederick G.; Seiz, Carl G.; and Egner, Robert J., 4,687,404, Cl. 414-276.000.

Seiz, Frederick G.; Seiz, Carl G.; and Egner, Robert J., to Seiz Corporation. Load transfer apparatus for push-in flow racks. 4,687,404, 8-18-87, Cl. 414-276.000.

Seijmo, Akinobu; and Ono, Shigeo, to Kabushiki Kaisha Meiji Gomu Kasei. Method for continuously vulcanizing hoses. 4,702,867, 10-27-87, Cl. 264-25.000.

Sekel, Stephen M.: *See*—
Mallory, Robert L.; Schamel, Alfred H.; and Sekel, Stephen M., 4,688,148, Cl. 361-395.000.
Mallory, Robert L.; Schamel, Alfred H.; and Sekel, Stephen M., 4,694,380, Cl. 361-424.000.

Sekelsky, Edward M., Jr., to Avco Corporation. Clamping system. 4,669,161, 6-2-87, Cl. 29-33.00P.

Seki, Akira; Narita, Yuuki; Aso, Yoshio; and Nagata, Shunro, to Kawatetsu Mining Company, Ltd. Process for purifying silica. 4,676,964, 6-30-87, Cl. 423-335.000.

Seki, Akira: *See*—
Ishizaka, Kunihiko; Sudo, Fumio; Seki, Akira; and Aso, Yoshio, 4,655,831, Cl. 75-257.000.

Seki, Fumio, to Nippon Notion Kogyo Co., Ltd. Positioning device for button setting machines. 4,650,104, 3-17-87, Cl. 227-99.000.

Seki, Gen; Hayashi, Seiichi; Kaito, Haruyuki; and Tatsumi, Akira, to Hitachi, Ltd. Magnetic head mounting device of magnetic recording apparatus. 4,658,315, 4-14-87, Cl. 360-104.000.

Seki, Gen: *See*—
Satoh, Masahiko; Seki, Gen; Hayashi, Seiichi; and Orihara, Yasunori, 4,675,756, Cl. 360-71.000.

Seki, Hiroshi; and Katashi, Ryuichiro, to Seki, Hiroshi. Fire sensor device. 4,639,605, 1-27-87, Cl. 250-554.000.

Seki, Hiroshi; and Katashi, Ryuichiro. Composite fire sensor. 4,640,628, 2-3-87, Cl. 374-141.000.

Seki, Hiroshi; and Nishiyuki, Toshiki, to Iwaki Glass Company Ltd. Sealing glass composition. 4,704,370, 11-3-87, Cl. 501-15.000.

Seki, Hiroyuki; and Okuno, Takuo, to Canon Kabushiki Kaisha. Vibration wave motor. 4,692,652, 9-8-87, Cl. 310-323.000.

Seki, Hiroyuki: *See*—
Hiramatsu, Akira; Mukohjima, Hitoshi; Kaneda, Naoya; Okuno, Takuo; Seki, Hiroyuki; Tsukimoto, Takayuki; Izukawa, Kazuhiro; and Okumura, Ichiro, 4,692,651, Cl. 310-323.000.
Okumura, Ichiro; Tsukimoto, Takayuki; Okuno, Takuo; Izukawa, Kazuhiro; Seki, Hiroyuki; Mukohjima, Hitoshi; Kaneda, Naoya; and Hiramatsu, Akira, 4,692,650, Cl. 310-323.000.
Okuno, Takuo; and Seki, Hiroyuki, 4,672,236, Cl. 310-323.000.

Seki, Hisazi: *See*—
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Seki, Kazuaki: *See*—
Tajima, Noriyasu; Sakura, Yasuhiro; Futakata, Takashi; Senda, Kouji; and Seki, Kazuaki, 4,700,792, Cl. 177-178.000.

Seki, Kazuhiko: *See*—
Inokuchi, Hiroo; Saito, Gunji; Seki, Kazuhiko; and Mori, Takehiko, 4,691,028, Cl. 549-36.000.

Seki, Kazuhisa: *See*—
Matsuda, Shinichi; and Seki, Kazuhisa, 4,642,717, Cl. 360-105.000.

Seki, Kazuyuki: *See*—
Kokubo, Eiichi; Osako, Kyoichi; Hirata, Akira; Oshita, Mizuo; Ito, Toshiaki; Seki, Kazuyuki; Yoshikawa, Eiichi; and Miyazaki, Osamu, 4,699,272, Cl. 209-534.000.

Seki, Kiwao, to Hitachi, Ltd. Spectrophotometer. 4,674,880, 6-23-87, Cl. 356-328.000.

Seki, Mamoru: *See*—
Inoue, Yoshimi; Seki, Mamoru; Katagiri, Mamoru; Nishiyama, Hiroaki; and Ogawa, Zenji, 4,675,339, Cl. 514-419.000.

Seki, Masahiko; Nakatani, Hiroshi; Kogumasaka, Katsuya; Takao, Seiyu; Arimitsu, Isao; and Fujimori, Hisanori, to Nippon Steel Corporation. Preheating mechanism for use with duplex electric-arc furnace system. 4,653,065, 3-24-87, Cl. 373-80.000.

Seki, Masaki: *See*—
Kish, Hajimu; Seki, Masaki; Takegahara, Takashi; and Onishi, Yasushi, 4,706,201, Cl. 364-474.000.
Kishi, Hajimu; Seki, Masaki; and Mizuno, Yutaka, 4,636,937, Cl. 364-191.000.
Kishi, Hajimu; Seki, Masaki; and Takegahara, Takashi, 4,642,754, Cl. 364-191.000.
Kishi, Hajimu; and Seki, Masaki, 4,660,148, Cl. 364-474.000.
Kishi, Hajimu; Seki, Masaki; and Mizuno, Yutaka, 4,676,674, Cl. 400-4.000.
Kishi, Hajimu; Seki, Masaki; and Mizuno, Yutaka, 4,677,543, Cl. 364-191.000.
Kishi, Hajimu; Seki, Masaki; and Takegahara, Takashi, 4,680,719, Cl. 364-474.000.
Kishi, Hajimu; Seki, Masaki; and Tanaka, Kunio, 4,697,249, Cl. 364-900.000.
Kishi, Hajimu; Seki, Masaki; Takegahara, Takashi; and Onishi, Yasushi, 4,703,415, Cl. 364-170.000.
Kishi, Hajimu; and Seki, Masaki, 4,704,687, Cl. 364-474.000.
Kishi, Hajimu; Seki, Masaki; and Takegahara, Takashi, 4,706,200, Cl. 364-474.000.

Seki, Masayuki: *See*—
Shibuki, Osamu; Matsuyama, Noboru; Umemura, Yoichi; Kamiya, Atsushi; Fujii, Takaya; Seki, Masayuki; and Ohta, Norio, 4,664,352, Cl. 248-562.000.

Seki, Nagataka; and Kaneko, Kouichi, to Kabushiki Kaisha Toshiba. Power converter apparatus including a chopper regulated inverter system. 4,667,283, 5-19-87, Cl. 363-95.000.

Seki, Nagataka; and Ichikawa, Kosaku, to Kabushiki Kaisha Toshiba. Power converter with a failure detector of a self-turn-off semiconductor element. 4,675,800, 6-23-87, Cl. 363-68.000.

Seki, Seiji; and Aoshima, Kiyoji, to Kabushiki Kaisha Komatsu Seisakusho. Die cushion apparatus for use in a press machine. 4,635,460, 1-13-87, Cl. 72-453.130.

Seki, Tadashi: *See*—
Kurihara, Susumu; Seki, Tadashi; Awata, Hiroshi; and Kadowaki, Hitoshi, 4,636,374, Cl. 423-385.000.

Seki, Takatoshi; Akimoto, Taizo; Ookawa, Norio; and Tonsawa, Nobuyuki, to Fuji Photo Film Co., Ltd. Apparatus for recording cathode-ray tube image. 4,664,506, 5-12-87, Cl. 355-20.000.

Seki, Toshio: *See*—
Sekizawa, Sadao; Seki, Toshio; and Takahashi, Tadashi, 4,639,807, Cl. 360-113.000.

Seki, Yasukazu; Sato, Noritada; and Yabe, Masaya, to Fuji Electric Corporate Research & Development Co., Ltd., and Fuji Electric Company, Ltd. Semiconductor radioactive ray detector. 4,692,782, 9-8-87, Cl. 357-29.000.

Seki, Yasukazu: *See*—
Sato, Noritada; Suzuki, Toshikazu; and Seki, Yasukazu, 4,689,649, Cl. 357-29.000.
Toyoda, Taro; and Seki, Yasukazu, 4,671,651, Cl. 356-44.000.

Seki, Yasunari: *See*—
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Ohta, Tomohisa; Dobashi, Akihiko; Kanbara, Hisashige; and Seki, Yasuyuki, 4,665,106, Cl. 522-49.000.

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Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,693,583, Cl. 354-439.000.
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Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,702,579, Cl. 354-21.000.

Seki, Yoshizo, to Tomy Kogyo Co., Inc. Toy with moving screen. 4,693,694, 9-15-87, Cl. 446-197.000.

Sekida, Minoru: *See*—
Fujino, Akihiko; Inoue, Manabu; Nakai, Masaaki; and Sekida, Minoru, 4,690,530, Cl. 354-21.000.
Taniguchi, Nobuyuki; Niwa, Masatake; Fujii, Akira; Hoda, Takao; Nakai, Masaaki; Sekida, Minoru; and Sahara, Masayoshi, 4,712,904, Cl. 354-475.000.

Sekido, Chiaki: Large clock driven by solar cell. 4,676,662, 6-30-87, Cl. 368-238.000.

Sekido, Satoshi; Tachibana, Hirokazu; and Yamamura, Yasuharu, to Research Association of Electric Conductive Inorganic Compounds. Catalyst composition and multi-functional sensor. 4,692,429, 9-8-87, Cl. 502-303.000.

Sekido, Toshihide: *See*— Sano, Takao; Sekido, Toshihide; and Ogasawara, Masafumi, 4,666,590, Cl. 209-2.000.

Sekigawa, Youichi: *See*— Kojima, Nobuyuki; Sekigawa, Youichi; and Kobiyama, Makoto, 4,653,464, Cl. 126-63.000.

Sekiguchi, Akira: *See*— Yasuhara, Seishi; Hagiwara, Mitsuo; Inoue, Kazuo; Fujimori, Kyoichi; Sekiguchi, Akira; and Okada, Hiroshi, 4,638,782, Cl. 123-502.000.

Sekiguchi, Atsushi; and Mito, Hideo, to Anelva Corporation. Surface processing apparatus utilizing local thermal equilibrium plasma and method of using same. 4,664,747, 5-12-87, Cl. 156-643.000.

Sekiguchi, Fujio: *See*— Imai, Ryusaku; Sekiguchi, Fujio; Chou, Tomoyuki; Ohya, Nobumasa; and Sato, Hitoshi, 4,654,483, Cl. 379-54.000.

Sekiguchi, Hiroshi, to Kanars Data Corporation. Drive control system for electric equipment. 4,646,223, 2-24-87, Cl. 364-130.000.

Sekiguchi, Kanetaka: *See*— Tanabe, Hiroshi; Yamamoto, Etsuo; Togashi, Seigo; Sekiguchi, Kanetaka; Aota, Katsumi; and Sorimachi, Kazuaki, 4,673,253, Cl. 350-339.00F.

Togashi, Seigo; and Sekiguchi, Kanetaka, 4,642,620, Cl. 340-713.000.

Togashi, Seigo; Yamamoto, Etsuo; Aota, Katsumi; Tanabe, Hiroshi; Sekiguchi, Kanetaka; and Sorimachi, Kazuaki, 4,655,552, Cl. 350-342.000.

Sekiguchi, Katsumi: *See*— Kawai, Yoichi; Abe, Masaru; Yoshihara, Akio; Hayashi, Shigeru; and Sekiguchi, Katsumi, 4,705,818, Cl. 523-200.000.

Sekiguchi, Kazuya: *See*— Sugisawa, Ko; Sekiguchi, Kazuya; Taguchi, Masao; Nakatani, Masayuki; and Iwata, Hitoshi, 4,690,699, Cl. 55-267.000.

Sekiguchi, Kyoji; and Kohayakawa, Yoshimi, to Canon Kabushiki Kaisha. Automatic optometer. 4,697,895, 10-6-87, Cl. 351-243.000.

Sekiguchi, Kyoji: *See*— Kobayashi, Kazunobu; Sekiguchi, Kyoji; Matsumura, Isao; and Madate, Haruhisa, 4,690,525, Cl. 351-206.000.

Masuda, Takashi; Nakamura, Yukitugu; and Sekiguchi, Kyoji, 4,710,003, Cl. 351-212.000.

Nakamura, Yukitugu; Masuda, Takashi; and Sekiguchi, Kyoji, 4,660,946, Cl. 351-212.000.

Nakamura, Yukitugu; Sekiguchi, Kyoji; and Masuda, Takashi, 4,666,269, Cl. 351-212.000.

Sekiguchi, Mamoru: *See*— Shitaokoshi, Sachiro; Sekiguchi, Mamoru; Takagi, Toshiaki; and Mori, Toshimichi, 4,705,497, Cl. 604-4.000.

Sekiguchi, Norio, to Honda Giken Kogyo Kabushiki Kaisha. Breather arrangement for cam case of internal combustion engine. 4,651,704, 3-24-87, Cl. 123-572.000.

Sekiguchi, Shigemi: *See*— Ezure, Tadayoshi; and Sekiguchi, Shigemi, 4,684,199, Cl. 439-610.000.

Sekiguchi, Takashi: *See*— Inaba, Mitsuharu; Sekiguchi, Takashi; Yoneyama, Yoshio; and Suzuki, Tadashi, 4,639,182, Cl. 414-543.000.

Sekiguchi, Takuya: *See*— Maruyama, Teruo; and Sekiguchi, Takuya, 4,646,621, Cl. 91-375.00R.

Sekiguchi, Toru; and Kondo, Shigeyuki, to NEC Corporation. Tape address synchronizing apparatus for video tape recorder. 4,663,679, 5-5-87, Cl. 360-73.000.

Sekiguchi, Yoshishige; and Kubota, Tomiyasu, to Showa Denko Kabushiki Kaisha. Joined carbon electrodes and method for the joining thereof. 4,703,492, 10-27-87, Cl. 373-91.000.

Sekiguchi, Yukio; Funakubo, Hiroyasu; Sakanoue, Hitoyuki; and Komura, Osamu, to Life Technology Research Found.; and Hiroyasu Funakubo & Sumitomo Elec. Ind., Ltd. Pressure welding bonding apparatus. 4,709,844, 12-1-87, Cl. 228-3.100.

Sekiguchi, Yuzo; and Maejima, Enjiro, to Ogura Clutch Co., Ltd. Electromagnetic coupling device. 4,635,774, 1-13-87, Cl. 192-52.000.

Sekihara, Kensuke; Yamamoto, Etsuji; Matsui, Shigeru; and Kohno, Hideki, to Hitachi, Ltd. Method of measuring the static magnetic field distribution in an NMR inspection system. 4,672,318, 6-9-87, Cl. 324-307.000.

Sekihara, Kensuke; Kuroda, Masao; and Kohno, Hideki, to Hitachi, Ltd. Imaging apparatus and method using nuclear magnetic resonance. 4,672,320, 6-9-87, Cl. 324-312.000.

Sekihara, Kensuke; Matsui, Shigeru; Kohno, Hideki; Yamamoto, Etsuji; and Shiono, Hidemi, to Hitachi, Ltd. High speed imaging method with three-dimensional NMR. 4,716,369, 12-29-87, Cl. 324-309.000.

Sekihara, Kensuke: *See*— Matsui, Shigeru; Sekihara, Kensuke; Kohno, Hideki; Onodera, Takashi; and Shiono, Hidemi, 4,689,568, Cl. 324-309.000.

Sekii, Shigehazu; and Tanabe, Susumu, to Terumo Kabushiki Kaisha. Cardiac output measurement system and method. 4,685,470, 8-11-87, Cl. 128-692.000.

Sekijima, Kenji: *See*— Yoshida, Hiroshi; Toyoshima, Takefumi; Iwabori, Tomio; Ohkura, Hideaki; Miyamoto, Yasuo; Nishimura, Izumi; Oikawa, Toshiyuki; Sekijima, Kenji; and Ohashi, Makoto, 4,709,898, Cl. 248-562.000.

Sekikawa, Ayako: *See*— Mizuno, Keisuke; Kondou, Eiichirou; Tahara, Kenji; and Sekikawa, Ayako, 4,656,059, Cl. 427-345.000.

Sekikawa, Katsuhide, to Mitsubishi Denki Kabushiki Kaisha. Tool display method for lathe equipped with numerical control unit. 4,639,855, 1-27-87, Cl. 364-188.000.

Sekimoto, Kunio: *See*— Morimoto, Takeshi; Sekimoto, Kunio; and Asada, Seigo, 4,672,470, Cl. 358-323.000.

Sekimoto, Soichi: *See*— Mita, Tsunemasa; Katoh, Ryoki; Sekimoto, Soichi; Shiratsuki, Yoshiyuki; and Arisawa, Hiroshi, 4,697,204, Cl. 357-74.000.

Sekimoto, Yoshiharu: *See*— Nakagaki, Tomonari; Sekimoto, Yoshiharu; Ishii, Mamoru; and Ishibashi, Haruo, 4,670,206, Cl. 264-87.000.

Sekimoto, Yoshihiro; Terashima, Shigeo; Kumata, Kiyoshi; and Tanaka, Toshiyuki, to Sharp Kabushiki Kaisha. Objective lens drive/-support mechanism in an optical disc player. 4,678,276, 7-7-87, Cl. 350-247.000.

Sekimoto, Yoshihiro; Terashima, Shigeo; and Kojima, Kunio, to Sharp Kabushiki Kaisha. Three-dimensional driving arrangement. 4,696,566, 9-29-87, Cl. 350-255.000.

Sekimoto, Yukihiko; Yanagita, Makoto; and Kanda, Shoichi, to Lion Corporation; and Nitto Chemical Industry Co., Ltd. Process for production of modified hydroxyethyl cellulose. 4,691,013, 9-1-87, Cl. 536-96.000.

Sekimoto, Yukihiko: *See*— Kanda, Shoichi; Yanagita, Makoto; and Sekimoto, Yukihiko, 4,661,266, Cl. 252-8.551.

Kanda, Shoichi; Yanagita, Makoto; and Sekimoto, Yukihiko, 4,681,690, Cl. 252-8.551.

Sekimura, Masayuki; and Shirouzu, Shunji, to Kabushiki Kaisha Toshiba. Semiconductor flow detector for detecting the flow rate and flowing direction of fluid. 4,637,253, 1-20-87, Cl. 73-189.000.

Sekimura, Nobuyuki; Fukaya, Masaki; Nakagawa, Katsumi; Komatsu, Toshiyuki; Shoji, Tatsumi; and Furushima, Teruhiko, to Canon Kabushiki Kaisha. Photosensor. 4,667,214, 5-19-87, Cl. 357-30.000.

Sekimura, Nobuyuki; Masaki, Yuichi; Terada, Katsunori; and Kakimoto, Seiji, to Canon Kabushiki Kaisha. Optical reader with two substrates. 4,675,534, 6-23-87, Cl. 250-578.000.

Sekimura, Nobuyuki; Kamio, Masaru; Takao, Hideaki; Motoi, Taiko; and Murata, Tatsuo, to Canon Kabushiki Kaisha. Ferroelectric liquid crystal device having color filters on row or column electrodes. 4,712,874, 12-15-87, Cl. 350-339.00F.

Sekimura, Nobuyuki: *See*— Fukaya, Masaki; Komatsu, Toshiyuki; Shoji, Tatsumi; Kamio, Masaru; and Sekimura, Nobuyuki, 4,700,080, Cl. 250-578.000.

Furushima, Teruhiko; Masaki, Yuichi; Fukaya, Masaki; and Sekimura, Nobuyuki, 4,650,984, Cl. 250-211.00R.

Sekine, Chogo, to Nihon Musen Kabushiki Kaisha. Stem orientation measurement apparatus. 4,644,358, 2-17-87, Cl. 342-356.000.

Sekine, Fumimaro; Kurosaki, Tomihiro; Ukena, Toshinao; and Kamitani, Hiroshi, to Kao Corporation. Ether carboxylates and process for preparing same. 4,713,487, 12-15-87, Cl. 562-587.000.

Sekine, Hirokazu; Morimune, Katuhiko; Watanabe, Masaharu; and Suzuki, Noboo, to Tokyo Shibaura Denki Kabushiki Kaisha. Charge storage type semiconductor device and method for producing same. 4,649,408, 3-10-87, Cl. 357-24.000.

Sekine, Hisao: *See*— Aizawa, Masandou; Yamauchi, Shigekazu; Sekine, Hisao; and Yamamoto, Takeshi, 4,684,218, Cl. 350-339.00F.

Sekine, Kazumi, to Canon Kabushiki Kaisha. Electronic instrument. 4,711,992, 12-8-87, Cl. 235-145.00R.

Sekine, Kazumi: *See*— Nishimuro, Yoshiaki; Hirata, Osamu; Kano, Kuniomi; Miyakawa, Akira; Fushimoto, Hideo; and Sekine, Kazumi, 4,698,783, Cl. 364-710.000.

Sekine, Kazunori: *See*— Hashimoto, Yoshiyuki; Toida, Tomohiro; Sekine, Kazunori; Saito, Minoru; Kawashima, Takuji; and Kuboyama, Morio, 4,645,667, Cl. 424-92.000.

Sekine, Keiichi: *See*— Mizoguchi, Yoshihiko; Sekine, Keiichi; Komiya, Yasutoyo; and Nishida, Yoshio, 4,657,142, Cl. 206-606.000.

Sekine, Kenji: *See*— Kaneko, Yoichi; Sekine, Kenji; and Funaki, Haruhiko, 4,647,869, Cl. 330-286.000.

Sekine, Makoto; Okano, Haruo; and Horiike, Yasuhiro, to Kabushiki Kaisha Toshiba. Phototreating apparatus. 4,642,171, 2-10-87, Cl. 204-298.000.

Sekine, Makoto; Okano, Haruo; and Horiike, Yasuhiro, to Kabushiki Kaisha Toshiba. Dry-etching method and apparatus therefor. 4,668,337, 5-26-87, Cl. 156-643.000.

Sekine, Mikiya: *See*— Matsushita, Toshihiko; Morishita, Sadao; Sekine, Mikiya; and Hiraishi, Shigetoshi, 4,696,863, Cl. 428-402.200.

Matsushita, Toshihiko; Morishita, Sadao; and Sekine, Mikiya, 4,703,335, Cl. 503-204.000.

Morishita, Sadao; Matsushita, Toshihiko; and Sekine, Mikiya, 4,651,177, Cl. 346-227.000.

Morishita, Sadao; Matsushita, Toshihiko; and Sekine, Mikiya, 4,707,404, Cl. 428-335.000.

Sekine, Noboru: *See*— Nishimura, Sadanori; and Sekine, Noboru, 4,640,393, Cl. 192-0.052.

Nishimura, Sadanori; and Sekine, Noboru, 4,697,475, Cl. 74-866.000.
Sekine, Shinichi: *See*—
Shirato, Takehide; and Sekine, Shinichi, 4,710,791, Cl. 357-23.130.
Sekine, Susumu; Mizukami, Tamio; Sato, Moriyuki; Itoh, Seiga; and Saito, Akiko, to Kyowa Hakko Kogyo Co., Ltd. Fish growth hormone polypeptide. 4,689,402, 8-25-87, Cl. 530-399.000.
Sekine, Takashi: *See*—
Itoh, Nobuaki; and Sekine, Takashi, 4,644,973, Cl. 137-883.000.
Sekine, Takasi; Yazawa, Kenichiro; and Kitajima, Masao, to Fuji Photo Film Co., Ltd. Device for maintaining a constant temperature for chemical analysis. 4,647,431, 3-3-87, Cl. 422-63.000.
Sekine, Tetsuo: *See*—
Tanaka, Masataka; Ohto, Masao; Sekine, Tetsuo; Isobe, Koji; and Maruyama, Masaru, 4,643,196, Cl. 128-753.000.
Sekine, Yoshihiko: *See*—
Sugio, Akitoshi; Okabe, Masao; Mizukami, Masamichi; and Sekine, Yoshihiko, 4,686,131, Cl. 428-158.000.
Sekine, Yoshitada; Yokota, Fumiki; and Kubota, Hisashi, to Nissan Motor Company, Limited. Surface flaw detecting method and apparatus. 4,715,709, 12-29-87, Cl. 356-237.000.
Sekine, Yoshitada: *See*—
Tamura, Kinichi; Sekine, Yoshitada; and Yokota, Fumiki, 4,669,168, Cl. 29-429.000.
Tamura, Kinichi; Kawada, Susumu; Sekine, Yoshitada; Abe, Kazuyoshi; Ishikawa, Ryosuke; and Yokota, Fumiki, 4,691,905, Cl. 269-45.000.
Sekino, Mituru; Hiroshima, Minoru; and Yanai, Masahiro, to Hitachi, Ltd. Magnetic bubble memory. 4,689,769, 8-25-87. Cl. 365-15.000.
Sekino, Yoshihiro; Aoki, Masayuki; and Hotaka, Nobuhiro, to Shinano Electric Co., Ltd. Control circuit for inverter. 4,646,221, 2-24-87, Cl. 363-41.000.
Sekiraku, Akira, to Mazda Motor Corporation. Apparatus for assembling vehicle bodies. 4,685,208, 8-11-87, Cl. 29-786.000.
Sekiso Co., Ltd.: *See*—
Ohkochi, Katsutoshi; Shinozaki, Mamoru; Ohshita, Toshiyuki; Kitano, Masayasu; and Kamata, Seizo, 4,706,753, Cl. 166-286.000.
Sekisui Kagaku Kogyo Kabushiki Kaisha: *See*—
Gen, Endo; Saneharu, Tatsu; Hori, Hirokazu; and Kawata, Yoshihiro, 4,671,913, Cl. 264-171.000.
Takada, Masaru; Shiraishi, Kazuhiro; and Iida, Noboru, 4,663,107, Cl. 264-519.000.
Takeda, Shinji; Asano, Teruyoshi; and Bando, Yoshiaki, 4,667,926, Cl. 251-170.000.
Yamabe, Yasuo; and Miura, Kiyoshi, 4,666,190, Cl. 285-93.000.
Yamada, Yonekazu; Sato, Osamu; and Tanaka, Takemi, 4,670,207, Cl. 264-248.000.
Sekisui Kaseihin Kogyo Kabushiki Kaisha: *See*—
Ikeda, Toshiki; Beppu, Yoshitugu; Yamamoto, Takashi; Ishigaki, Hideyo; and Ohmura, Hiroshi, 4,698,367, Cl. 521-57.000.
Sekita, Katsuji: *See*—
Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio, 4,656,862, Cl. 72-443.000.
Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio, 4,672,831, Cl. 72-21.000.
Sekita, Yosimi: *See*—
Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yosimi; Saito, Kouichi; and Tamura, Akira, 4,672,253, Cl. 310-269.000.
Sekitani, Noboru; and Otoshima, Hiroo, to Murata Kikai Kabushiki Kaisha. Bobbin removing apparatus. 4,674,636, 6-23-87, Cl. 209-600.000.
Sekiya, Fukuo; and Shimizu, Hiroshi, to Citizen Watch Co., Ltd. Liquid crystal matrix display panel drive method. 4,645,303, 2-24-87, Cl. 350-332.000.
Sekiya, Hitoshi: *See*—
Nakatsugawa, Kenji; Katayama, Aiichi; Sekiya, Hitoshi; and Hiratsuka, Shoji, 4,642,519, Cl. 315-1.000.
Sekiya, Masaaki: *See*—
Fujiwara, Hiroshi; Matsumoto, Tadashi; and Sekiya, Masaaki, 4,709,009, Cl. 528-481.000.
Sekiya, Mutsuo: *See*—
Tanaka, Hideharu; Sekiya, Mutsuo; and Uchikawa, Fusaoki, 4,700,805, Cl. 181-265.000.
Sekiya, Osamu: *See*—
Haruguchi, Kenji; Kohguchi, Takuma; and Sekiya, Osamu, 4,712,499, Cl. 114-77.00R.
Sekiya, Satoshi; Matsumoto, Ikuo; and Fujiki, Kuniharu, to Victor Company of Japan, Ltd. Magnetic recording medium comprising an undercoating made of a mixture of thermosetting polyurethane and polyester resins. 4,671,995, 6-9-87, Cl. 428-336.000.
Sekiya, Satoshi; Matsumoto, Ikuo; and Fujiki, Kuniharu, to Victor Company of Japan, Ltd. Magnetic recording medium comprising an undercoat layer made of specific type of resin composition. 4,708,906, 11-24-87, Cl. 428-336.000.
Sekiya, Shinji, to Disco Abrasive Systems, Ltd. Precision device for reducing errors attributed to temperature change reduced. 4,705,016, 11-10-87, Cl. 125-13.00R.
Sekiya, Tadashi; Tsuzuki, Akihiro; and Torii, Yasuyoshi, to Agency of Industrial Science & Technology; and Ministry of International Trade & Industry. Method for manufacture of photo-semiconductor. 4,678,732, 7-7-87, Cl. 430-136.000.
Sekiya, Tetsuo; Tsutsui, Mikio; Horii, Daijiro; and Ishibashi, Akira, to Mitsubishi Chemical Industries Limited. 2-Phenylalkyl-3-aminoalkyl-4(3H)-quinazolinone compound. 4,668,682, 5-26-87, Cl. 514-259.000.
Sekiya, Tetsuo: *See*—
Soda, Yutaka; Imamura, Hideko; Uchida, Hiroyuki; and Sekiya, Tetsuo, 4,713,710, Cl. 360-121.000.
Souda, Yutaka; Imakoshi, Shigeyoshi; Suyama, Hideo; Uchida, Hiroyuki; Iida, Yasuhiro; and Sekiya, Tetsuo, 4,673,998, Cl. 360-113.000.
Yada, Hiroaki; Imakoshi, Shigeyoshi; Suyama, Hideo; Sekiya, Tetsuo; and Nakayama, Masayuki, 4,701,815, Cl. 360-77.000.
Sekiya, Yasuhisa: *See*—
Takahashi, Kunio; and Sekiya, Yasuhisa, 4,671,021, Cl. 51-204.00.
Sekiya, Yoshiyuki; Mizumura, Sakae; and Kihara, Teruo, to Honda Giken Kogyo Kabushiki Kaisha. Lubricating system for engine. 4,703,726, 11-3-87, Cl. 123-196.0AB.
Sekizawa, Hidekazu; Iwamoto, Akito; Yamamoto, Naofumi; and Yoneda, Hitoshi, to Kabushiki Kaisha Toshiba. Color image copying apparatus. 4,661,843, 4-28-87, Cl. 358-80.000.
Sekizawa, Hidekazu; Yamada, Kiyoshi; Miura, Shuzo; and Hosaka, Yasuo, to Tokyo Shibaura Denki Kabushiki Kaisha. Picture signal processing system featuring simple or dithering binarization processing selected in response to local variations in picture density. 4,663,662, 5-5-87, Cl. 358-75.000.
Sekizawa, Hidekazu; and Iwamoto, Akito, to Kabushiki Kaisha Toshiba. Optical color document reading apparatus wherein an image is blurred on a color image sensor to minimize color moire phenomenon effects. 4,675,727, 6-23-87, Cl. 358-75.000.
Sekizawa, Hidekazu; Kawakami, Haruko; and Yamamoto, Naofumi, to Kabushiki Kaisha Toshiba. Color picture reader and method for operating the same. 4,698,669, 10-6-87, Cl. 358-76.000.
Sekizawa, Hidekazu: *See*—
Yamamoto, Naofumi; Sekizawa, Hidekazu; and Saito, Tatomi, 4,672,433, Cl. 358-80.000.
Sekizawa, Ikuhisa: *See*—
Kawakami, Chikumi; and Sekizawa, Ikuhisa, 4,659,662, Cl. 358-14.000.
Sekizawa, Sadao; Seki, Toshio; and Takahashi, Tadashi, to Hitachi, Ltd. Magnetic detector having magnetoresistive elements. 4,679,807, 1-27-87, Cl. 360-113.000.
Sekizuka, Yasuo: *See*—
Sumi, Naoki; Yamashita, Hiroshi; and Sekizuka, Yasuo, 4,649,052, Cl. 426-49.000.
Seklecki, Sigmund F. Device and method for exchange of trading cards and dice. 4,634,125, 1-6-87, Cl. 273-93.00R.
Seko, Ichiro: *See*—
Naka, Hiroshi; Seko, Ichiro; Kobayashi, Shuji; and Haneda, Makoto, 4,701,927, Cl. 372-46.000.
Seko, Maomi; Takemura, Reiji; and Miyamori, Hideharu, to Asahi Kasei Kogyo Kabushiki Kaisha. Multi-cell electrolyzer. 4,643,816, 2-17-87, Cl. 204-253.000.
Seko, Maomi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for electrolysis of sodium chloride. 4,683,040, 7-28-87, Cl. 204-98.000.
Seko, Maomi, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for electrolysis of sodium chloride. 4,683,041, 7-28-87, Cl. 204-98.000.
Seko, Nachio: *See*—
Higaya, Toshiaki; Ogura, Masaaki; Yano, Takato; Hashizume, Kiyozo; Ogawa, Toshiyuki; and Seko, Nachio, 4,640,908, Cl. 355-15.000.
Seko, Norihiko: *See*—
Yoshino, Koichiro; Seko, Norihiko; Yokota, Koichi; Ito, Kenji; and Tsukamoto, Goro, 4,659,726, Cl. 514-365.000.
Seko, Osamu: *See*—
Shimura, Ryoji; and Seko, Osamu, 4,634,156, Cl. 292-216.000.
Seko, Shoichi: *See*—
Hattori, Tetsuo; and Seko, Shoichi, 4,714,132, Cl. 180-312.000.
Sekо, Yasutoshi; and Abe, Yuichi, to Nissan Motor Company, Limited. Apparatus and process for improving visibility of object within visual field. 4,692,798, 9-8-87, Cl. 358-93.000.
Sekozawa, Teruji; Funabashi, Motohisa; Shioya, Makoto; Ohari, Michihiko; and Tokuda, Hiroatsu, to Hitachi, Ltd. Method for controlling fuel injection for engine. 4,667,640, 5-26-87, Cl. 123-492.000.
Sekozawa, Teruji: *See*—
Ohnari, Mikihiko; Funabashi, Motohisa; Shioya, Makoto; Sekozawa, Teruji; and Shida, Masami, 4,697,566, Cl. 123-479.000.
Shioya, Makoto; Sekozawa, Teruji; Funabashi, Motohisa; Ishida, Masahiro; and Tokuda, Hiroatsu, 4,674,028, Cl. 364-148.000.
Selak, Martin. Sheet conveyor and cooperating roller. 4,676,497, 6-30-87, Cl. 271-226.000.
Selak, Martin. Suction sheet separator with adjustable feed restraint and stack confinement. 4,712,783, 12-15-87, Cl. 271-100.000.
Selak, Martin. Sheet feeding apparatus. 4,714,242, 12-22-87, Cl. 271-100.000.
Selame, Robert: *See*—
Lerner, Michael; Bernstein, Michael; and Selame, Robert, 4,671,587, Cl. 439-142.000.
Lerner, Michael; Bernstein, Michael; and Selame, Robert, 4,709,429, Cl. 4-661.000.
Selame, Rowland A.: *See*—
Quet, Hector P.; and Selame, Rowland A., 4,658,710, Cl. 99-445.000.
Selander, Raymond K., to International Business Machines Corporation. Material identification using infrared thermometry. 4,644,161, 2-17-87, Cl. 250-341.000.
Selbach, Bernd; and Vary, Peter, to U.S. Philips Corporation. Method of recognizing speech pauses. 4,682,361, 7-21-87, Cl. 381-46.000.

Selbach, Bernd; and Vary, Peter, to U. S. Philips Corporation. Method of recognizing speech pauses. 4,703,394, 10-13-87, Cl. 381-46.000.
Selbach, Gerd. Laser-based measuring system. 4,687,324, 8-18-87, Cl. 356-1.000.
Selbeck, Harald: *See*—
Nielinger, Werner; Michael, Dietrich; Fullmann, Heinz-Josef; Binsack, Rudolf; and Selbeck, Harald, 4,670,487, Cl. 524-80.000.
Selber, Oscar: *See*—
Tellman, Stephen J.; and Selber, Oscar, 4,655,869, Cl. 156-252.000.
Selberg, Hans: *See*—
Hilmersson, Anders; Holmstrom, Gert; and Selberg, Hans, 4,704,509, Cl. 219-10.530.
Selberg, Roberto: *See*—
Kronogard, Hakan; and Selberg, Roberto, 4,678,193, Cl. 273-186.00C.
Selbie, Robert D.: *See*—
Eastwood, Linda M.; Hutchison, James M. S.; Johnson, Glyn; Redpath, Thomas W. T.; Selbie, Robert D.; and Mallard, John R., 4,651,095, Cl. 324-307.000.
Redpath, Thomas W. T.; Selbie, Robert D.; Hutchison, James M. S.; Eastwood, Linda M.; Johnson, Glyn; and Mallard, John R., 4,652,825, Cl. 324-318.000.
Selby, Garry J.: *See*—
Kantor, Sherwood; Selby, Garry J.; and Wolff, Larry L., 4,681,424, Cl. 355-14.00R.
Selby, Howard W., III; and Fellinger, Michael W., to Selsys Corporation. Method for controlling access to recorded data, 4,677,604, 6-30-87, Cl. 369-33.000.
Selby, John S., to Weyerhaeuser Company. Cooker basket assembly, 4,709,952, 12-1-87, Cl. 294-82.140.
Selcuk, Asim A.: *See*—
Erb, Darrell M.; and Selcuk, Asim A., 4,650,555, Cl. 162-53.000.
Selcukoglu, Yuksel A. to CBI Industries, Inc. Apparatus and method of freezing a feed liquid. 4,704,877, 11-10-87, Cl. 62-532.000.
Selcukoglu, Yuksel A.: *See*—
Shah, Tushar K.; and Selcukoglu, Yuksel A., 4,666,484, Cl. 62-532.000.
Seleco, Inc.: *See*—
Salem, Robert A., 4,670,306, Cl. 427-258.000.
Selenia - Industrie Elettroniche Associate S.p.A.: *See*—
D'Addio, Egidio; Galati, Gaspare; and Giaccari, Ennio, 4,636,793, Cl. 342-162.000.
Galati, Gaspare; and Orsini, Mario, 4,712,109, Cl. 342-139.000.
Selenia Industrie Elettroniche Associate—S.p.A.: *See*—
Ronconi, Roberto; and Chierici, Roberto, 4,656,477, Cl. 342-39.000.
Selenia Spazio: *See*—
Roccucci, Silvio, 4,700,147, Cl. 331-47.000.
Roccucci, Silvio, 4,716,509, Cl. 363-26.000.
Selenia Spazio SpA: *See*—
Pedone, Alessandro, 4,678,933, Cl. 307-254.000.
Selenke, William M. Medicament for reducing nephrotoxicity caused by positively charged agents such as aminoglycosides and methods of use thereof. 4,654,325, 3-31-87, Cl. 514-42.000.
Seleno, Frank M., to Schmelzer Corporation. Vacuum control device. 4,633,845, 1-6-87, Cl. 123-568.000.
Selepouchin, Vladimir: *See*—
Lase, Ralph J., Jr.; Stern, Timothy R.; Sudol, George A.; and Selepouchin, Vladimir, 4,683,465, Cl. 340-700.000.
Self, Freddy. Fire extinguisher extractor apparatus. 4,687,032, 8-18-87, Cl. 141-18.000.
Self, Freddy. Safety seal for an operating lever. 4,705,064, 11-10-87, Cl. 137-384.000.
Self, Henry L.: *See*—
Leek, Bobby J.; and Self, Henry L., 4,656,851, Cl. 70-277.000.
Selfix, Inc.: *See*—
Chap, John P., 4,666,201, Cl. 294-161.000.
Chap, John P., 4,673,089, Cl. 211-71.000.
Peinsipp, Alice A., 4,712,692, Cl. 211-119.000.
Selfridge, Alan R.: *See*—
Ingle, Frank W.; and Selfridge, Alan R., 4,664,124, Cl. 128-660.000.
Selfridge, Glenn D.: *See*—
Dutton, Edmund L.; Selfridge, Glenn D.; and Tipton, Russell C., 4,701,415, Cl. 435-289.000.
Seli, Michel, to Framatome et Cogema dite "Fragema". Process and device for detecting defective cladding sheaths in a nuclear fuel assembly. 4,696,788, 9-29-87, Cl. 376-253.000.
Selig, Henry: *See*—
Palchan, Israel; Davidov, Dan; and Selig, Henry, 4,645,620, Cl. 252-502.000.
Seliga, Gerald W., to Productronix, Inc. Load monitor for cyclic machine. 4,671,124, 6-9-87, Cl. 73-862.530.
Seliger, Robert L.: *See*—
Ward, J. William; Bartelt, John L.; Seliger, Robert L.; and McKenna, Charles M., 4,687,940, Cl. 250-492.200.
Seliger, Siegfried: *See*—
Bodemaeck, Hans-Rudolf; Dobler, Karl-Otto; Hanel, Horst; Kohler, Kurt; Liedtke, Frieder; and Seliger, Siegfried, 4,658,340, Cl. 362-267.000.
Seligman, Arnold D. Wedding cake tier aligner. 4,676,005, 6-30-87, Cl. 33-533.000.
Seligman, Robert B.: *See*—
Kerrisis, Gus D.; Knudson, Donald B., Jr.; Osmalov, Jerome S.; and Seligman, Robert B., 4,674,519, Cl. 131-355.000.
Seligson, Aaron: *See*—
Martin, Charles K., 4,666,587, Cl. 208-184.000.
Selim, Ahmed E.; and Weilbacker, Thomas C., to Allied Corporation. Serial bus for master/slave computer system. 4,685,171, 8-18-87, Cl. 364-200.000.
Selim, Harold N., to IFR, Inc. System and method for wideband, continuous tuning of an oscillator. 4,636,747, 1-13-87, Cl. 331-1.00R.
Selim, Harold N., to IFR, Inc. Wideband, microwave regenerative divider with varactor tuning. 4,641,101, 2-3-87, Cl. 328-25.000.
Selim, Harold N., to IFR, Inc. Local oscillator null circuit and method. 4,654,886, 3-31-87, Cl. 455-317.000.
Selin, Howard: *See*—
Johnson, Richard H.; Selin, Howard; and Kuhn, Wayne H., 4,662,159, Cl. 53-458.000.
Selin, Johan Fredrik: *See*—
Turunen, Olli T.; Huttunen, Jouko; Selin, Johan-Fredrik; Fors, Jan; and Eklund, Vidar, 4,639,514, Cl. 536-30.000.
Turunen, Olli T.; Huttunen, Jouko; Selin, Johan-Fredrik; Fors, Jan; and Eklund, Vidar, 4,639,515, Cl. 536-30.090.
Selin, John R.; and Jessen, Donald N., to Raytheon Company. Transmit/receive switch. 4,637,073, 1-13-87, Cl. 455-78.000.
Selin, John R., to Raytheon Company. RF power amplifier with load mismatch compensation. 4,656,434, 4-7-87, Cl. 330-84.000.
Selina, John R.: *See*—
Antos, John M.; and Selina, John R., 4,703,785, Cl. 141-326.000.
Antos, John M.; and Selina, John R., 4,712,255, Cl. 4-323.000.
Selines, Ronald J.: *See*—
Maddever, Wayne J.; Riley, Michael F.; and Selines, Ronald J., 4,699,654, Cl. 75-10.450.
Seljelid, Rolf: *See*—
Larm, Olle; and Seljelid, Rolf, 4,707,471, Cl. 514-54.000.
Selkirk, Eric B.: *See*—
Bindner, Patrick E.; Selkirk, Eric B.; and Norton, Peter R., 4,649,336, Cl. 324-61.00R.
Sell, Anthony. Ball-handled scissors. 4,663,848, 5-12-87, Cl. 30-261.000.
Sell, Jeffrey A., to General Motors Corporation. Photothermal method of measuring fluid velocity. 4,652,120, 3-24-87, Cl. 356-28.000.
Sell, Jeffrey A., to General Motors Corporation. Photothermal deflection method of measuring fluid velocity. 4,654,803, 3-31-87, Cl. 364-510.000.
Sell, Kevin D.: *See*—
Kitzmiller, James A.; and Sell, Kevin D., 4,655,467, Cl. 280-81.00B.
Sell, Michael R.: *See*—
Hurn, Richard L.; and Sell, Michael R., 4,716,352, Cl. 320-2.000.
Sell, William F., to Ellenberg & Poensgen GmbH. Overload protective circuit breaker. 4,667,175, 5-19-87, Cl. 337-68.000.
Sell, William F., to Ellenberger & Poensgen GmbH. Push-button actuated overload protective circuit breaker. 4,682,138, 7-21-87, Cl. 337-68.000.
Sella, Lino. Pedal locking and unlocking assembly in a mortar and plaster mixing machine. 4,699,517, 10-13-87, Cl. 366-45.000.
Sella, Ronald W.: *See*—
Hagel, Robert J., Sr.; and Sella, Ronald W., 4,700,297, Cl. 364-408.000.
Selle, Robert W. Bench press safety platform with unloading shelf. 4,648,595, 3-10-87, Cl. 272-123.000.
Selleck, Robert A.: *See*—
Carnell, Brian L.; and Selleck, Robert A., 4,655,416, Cl. 244-121.000.
Selleck, Ronald R.: *See*—
Martin, James M.; Brockett, William S.; Selleck, Ronald R.; and Croteau, Michael G., 4,639,138, Cl. 356-350.000.
Sellegaard, Eric L. Preparation and process for the preservation of plants. 4,710,394, 12-1-87, Cl. 427-4.000.
Selleri, Narciso: *See*—
Bolognesi, Antonio; Selleri, Narciso; and Giordovich, Giancarlo, 4,703,587, Cl. 51-165.00R.
Sellers, David. Recreational sled. 4,666,171, 5-19-87, Cl. 280-18.000.
Sellers, Dick: *See*—
Hartley, David H.; and Sellers, Dick, 4,705,217, Cl. 239-142.000.
Sellers, Gregory J.: *See*—
Kritchevsky, Gina R.; Gregor, John A.; Gruendig, Manfred W.; Sellers, Gregory J.; and Liss, Barbara, 4,678,699, Cl. 428-175.000.
Sellers, Robin M.: *See*—
Wood, Christopher J.; Bradbury, David; Swan, Timothy; Segal, Michael G.; and Sellers, Robin M., 4,705,573, Cl. 134-3.000.
Sellers, William Douglas: *See*—
Enders, Max L., deceased; and Thiel, Reinhard A., administrator, 4,639,044, Cl. 301-9.0DN.
Sellers, William W. Asphalt heating system. 4,661,684, 4-28-87, Cl. 219-279.000.
Selleschy, Franz: *See*—
Jacobs, Hanno; Opara, Ulrich; and Selleschy, Franz, 4,636,964, Cl. 364-483.000.
Selling, Harley M.; and Levin, Bernard M. Dark room safe light filter assembly for a TV set. 4,652,085, 3-24-87, Cl. 350-318.000.
Sellmaier, Horst; and Sandholzer, Hartwig. Power saw blade. 4,654,972, 4-7-87, Cl. 30-385.000.
Sellman, Leonard R.; Embury, Jason F., Jr.; and Beyth, Werner W., to AAI Corporation. Method of forming IR smoke screen. 4,704,966, 11-10-87, Cl. 102-334.000.
Sellner, Jorg; Siegwert, Rudolf; and Grauls, Siegfried, to Voest-Alpine Aktiengesellschaft. Cross slide for a lathe. 4,671,712, 6-9-87, Cl. 409-211.000.
Sells, Craig L.: *See*—
Foley, Donald E.; Gipp, Gregory H.; Schwader, William G.; Sells, Craig L.; Smittkamp, James A.; Stahl, Alan L.; and Szenter, John F., 4,635,739, Cl. 177-45.000.

Sells, Robert A.: *See—*
Anderson, J. Edward; and Sells, Robert A., 4,671,185, Cl. 104-130.000.

Sellstedt, John H.: *See—*
Klaubert, Dieter H.; and Sellstedt, John H., 4,663,461, Cl. 548-251.000.

Sellstrom, Kathy B.: *See—*
McEntire, Edward E.; and Sellstrom, Kathy B., 4,675,441, Cl. 564-135.000.

Selman, Gordon L.; and Midgley, Richard J., to Johnson Matthey & Company, Limited. Platinum group metal-containing alloy. 4,683,119, 7-28-87, Cl. 420-444.000.

Selmayr, Tassilo: *See—*
Staiger, Gerhard; Selmayr, Tassilo; Kinzel, Peter; and Reutter, Anneliese, 4,639,541, Cl. 560-20.000.

Selmeczi, Andras: *See—*
Perjes, Istvan; Szporny, Laszlo; Selmeczi, Andras; Vereczkey, Laszlo; Klebovich, Imre; Toth, Edit; Hajos, Gyorgy; Torley, Jozsef; Simon, Ferenc; Sarkozy, Peter; and Misley, Attila, 4,659,712, Cl. 514-249.000.

Selmer, Jacques: *See—*
Selmer, Jean, 4,701,978, Cl. 16-380.000.

Selmer, Jean, to Selmer, Jacques. Hinge pin guide, especially for musical instruments. 4,701,978, 10-27-87, Cl. 16-380.000.

Selsted, Michael E.: *See—*
Lehrer, Robert I.; and Selsted, Michael E., 4,659,692, Cl. 514-12.000.
Lehrer, Robert I.; Selsted, Michael E.; and Ganz, Tomas, 4,705,777, Cl. 514-12.000.

Selsys Corporation: *See—*
Selby, Howard W., III; and Fellinger, Michael W., 4,677,604, Cl. 369-33.000.

Seltzer, Charles J. Massage footwear. 4,694,831, 9-22-87, Cl. 128-582.000.

Selzer, Clyde W., to Cla-Val Company. Diaphragm valve. 4,715,578, 12-29-87, Cl. 251-25.000.

Seltzer, Raymond; Patel, Ambelal R.; Stewart, Peter W.; and White, Charlene, to Ciba-Geigy Corporation. Polyolefin compositions stabilized against degradation using hydroxylamine derivatives. 4,668,721, 5-26-87, Cl. 524-95.000.

Seltzer, Raymond: *See—*
Behrens, Rudolf A.; and Seltzer, Raymond, 4,691,015, Cl. 544-198.000.
Ravichandran, Ramanathan; Malherbe, Roger F.; and Seltzer, Raymond, 4,649,221, Cl. 564-300.000.
Winter, Roland A. E.; Ravichandran, Ramanathan; and Seltzer, Raymond, 4,703,073, Cl. 524-99.000.

Seltzer, Samuel M.; Dennison, Saul; and Dolan, Frank, Sr., to Allison Corporation. Auto seat cover. 4,693,511, 9-15-87, Cl. 297-219.000.

Seltzman, Herbert H.; and Hsieh, Yung-Ao, to Research Triangle Institute. Aminomalonyl alanine compounds as dietary sweeteners. 4,714,619, 12-22-87, Cl. 426-548.000.

Seluk, Daniel C., to Vuarnet. Elastic strap clamp. 4,651,391, 3-24-87, Cl. 24-703.000.

Selvaag-Bygg A/S: *See—*
Thorsnes, Ola O., 4,662,780, Cl. 405-1.000.

Selvag, Svein: *See—*
Gjestrum, Einar; Dragsund, Inge; Skog, Just; and Selvag, Svein, 4,686,660, Cl. 367-153.000.

Selvaggi, Jerry A.; and Purcell, John R., to Eriez Manufacturing Company. Superconductor high gradient magnetic separator. 4,702,825, 10-27-87, Cl. 209-224.000.

Selvatici, Franco. Radially disposed sealing device for rotating members. 4,645,216, 2-24-87, Cl. 277-188.00R.

Selvin, Gerald J.: *See—*
Anhalt, John W.; Goodman, David S.; and Selvin, Gerald J., 4,634,199, Cl. 339-17.00M.

Selwyn, Gary S.: *See—*
Bennett, Reid S.; Ephrath, Linda M.; Schwartz, Geraldine C.; and Selwyn, Gary S., 4,675,072, Cl. 156-626.000.

Selwyn, Stephen. Nautical high visibility device. 4,677,010, 6-30-87, Cl. 428-40.000.

Selz, Aloiz, to Surculus AG. Drinking cup with closure for open bottles and/or cans. 4,693,410, 9-15-87, Cl. 229-1.50B.

Selzer, Robert J., to Navistar International Corporation. Dual offset cantilevered spring suspension. 4,687,224, 8-18-87, Cl. 280-718.000.

Selzer, William H.; and Kirn, J. Dale, to Cox Hobbies, Inc. Model airplane engine starter and drive train. 4,651,688, 3-24-87, Cl. 123-185.00D.

Sema, Teruji, to Inaba Seisakusho Ltd. Height adjustable desk. 4,703,700, 11-3-87, Cl. 108-10.000.

Sema, Teruji, to Inaba Seisakusho Ltd. Desk with height and angle adjustable table top. 4,703,701, 11-3-87, Cl. 108-10.000.

Semco Instruments, Inc.: *See—*
Moore, M. Samuel, 4,698,454, Cl. 136-233.000.

Semedard, Jean-Claude; Marsault, Jean-Jacques; Peyrelongue, Jean-Pierre; and Vallee, Gerard, to Stein Industrie. Device for supporting pipes having a low thickness. 4,640,480, 2-3-87, Cl. 248-62.000.

Semedard, Jean-Claude: *See—*
Marsault, Jean-Jacques; Peyrelongue, Jean-Pierre; Semedard, Jean-Claude; and Vallee, Gerard, 4,679,755, Cl. 248-74.100.

Semenets, Valery I.: *See—*
Baldenko, Dmitry F.; Bezlepkin, Nikolai P.; Vadetsky, Jury V.; Gusman, Moisei T.; Potapov, Jury F.; and Semenets, Valery I., 4,711,006, Cl. 29-156.40R.

Semenov, Pavel A.; Fedorov, Svyatoslav N.; Mironova, Emilia M.; and Egorova, Eleonora V., to Moskovsky Nauchno-Issledovatelsky Institut Mikrokhirurgii Glaza. Device for processing electro-oculographic signals. 4,653,001, 3-24-87, Cl. 364-415.000.

Semenov, Vladimir: *See—*
Fleischer, Klaus; Gohler, Peter; Mangler, Rolf; Reuther, Christian; Schingnitz, Manfred; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Rodionov, Boris, 4,704,971, Cl. 110-264.000.
Gohler, Peter; Mangler, Rolf; Schingnitz, Manfred; Seidel, Wolfgang; Berger, Friedrich; Gudymov, Ernest; Semenov, Vladimir; Fedotov, Vasilij; and Gamburg, David, 4,710,202, Cl. 48-71.000.
Gudymov, Ernest; Fedotov, Vasilij; Semenov, Vladimir; Rodinov, Boris; Berger, Friedrich; Wenzel, Winfried; Peise, Helmut; and Schingnitz, Manfred, 4,707,163, Cl. 48-71.000.

Semenova, Galina P.: *See—*
Chernin, Semen M.; Barskaya, Evgenia G.; and Semenova, Galina P., 4,676,652, Cl. 356-439.000.

Semenza, Nicholas J., Jr., to Gary Chemical Corp. Flame retardant low smoke poly(vinyl chloride) thermoplastic composition. 4,670,494, 6-2-87, Cl. 524-141.000.

Semiconductor Division Thomson-CSF Components Corporation: *See—*
Feygenson, Anatoly, 4,651,410, Cl. 29-576.000.

Semiconductor Energy Laboratory Co., Ltd.: *See—*
Yamazaki, Shunpei; Tashiro, Mamoru; and Miyazaki, Minoru, 4,636,401, Cl. 427-39.000.
Yamazaki, Shunpei, 4,638,108, Cl. 136-244.000.
Yamazaki, Shunpei, 4,640,845, Cl. 427-38.000.
Yamazaki, Shunpei, 4,642,243, Cl. 427-38.000.
Yamazaki, Shunpei, 4,651,182, Cl. 357-23.400.
Yamazaki, Shunpei, 4,654,467, Cl. 136-251.000.
Yamazaki, Shunpei, 4,654,680, Cl. 357-23.300.
Yamazaki, Shunpei, 4,656,101, Cl. 428-620.000.
Yamazaki, Shunpei, 4,659,507, Cl. 252-500.000.
Yamazaki, Shunpei, 4,659,867, Cl. 136-251.000.
Yamazaki, Shunpei, 4,668,969, Cl. 357-23.400.
Yamazaki, Shunpei, 4,670,294, Cl. 427-53.100.
Yamazaki, Shunpei; Itoh, Kenji; and Nagayama, Susumu, 4,680,855, Cl. 29-583.000.
Yamazaki, Shunpei, 4,686,760, Cl. 437-5.000.
Yamazaki, Shunpei, 4,690,717, Cl. 437-2.000.
Yamazaki, Shunpei; Konuma, Toshimitsu; Hamatani, Toshiji; Mase, Akira; Koyanagi, Kaoru; Imato, Shinji; Yamaguchi, Toshiharu; Sakama, Mitsunori; and Inujima, Takashi, 4,691,995, Cl. 350-331.00R.
Yamazaki, Shunpei, 4,694,312, Cl. 357-17.000.
Yamazaki, Shunpei, 4,703,337, Cl. 357-30.000.
Yamazaki, Shunpei, 4,704,300, Cl. 427-38.000.
Yamazaki, Shunpei; and Nagayama, Susumu, 4,704,624, Cl. 357-30.000.
Yamazaki, Shunpei; and Nagayama, Susumu, 4,706,376, Cl. 437-4.000.
Yamazaki, Shunpei, 4,710,397, Cl. 427-53.100.
Yamazaki, Shunpei; Itoh, Kenji; and Nagayama, Susumu, 4,713,518, Cl. 219-121.0LM.

Semiconductor Research Foundation: *See—*
Nishizawa, Jun-ichi, 4,641,167, Cl. 357-30.000.

Semikron Gesellschaft fur Gleichrichterbau und Elektronik m.b.H.: *See—*
Creutz, Helmut, 4,646,130, Cl. 357-79.000.
Schierz, Winfried, 4,672,422, Cl. 357-82.000.

Semin, Fikret; Guermandi, Romano; and Cucco, Gian C., to Societa Pneumatici Pirelli S.p.A. Directional tires for automobiles. 4,641,696, 2-10-87, Cl. 152-209.00R.

Semler Industries Inc.: *See—*
Semler, Loren H., Jr., 4,637,875, Cl. 210-232.000.

Semler, Loren H., Jr., to Semler Industries Inc. Fluid filtering apparatus and tubular filter therefor. 4,637,875, 1-20-87, Cl. 210-232.000.

Semm, Kurt; and Neumann, Peter. Apparatus for the insufflation of gas. 4,676,774, 6-30-87, Cl. 604-26.000.

Semmerling, Ralph P.: *See—*
Green, William J.; and Semmerling, Ralph P., 4,689,927, Cl. 52-180.000.

Semmler, James. Framing jig. 4,699,363, 10-13-87, Cl. 269-91.000.

Semmler, Jurgen, to Sigri GmbH. Cooled furnace head for heavy-current resistance furnaces. 4,641,321, 2-3-87, Cl. 373-120.000.

Semon, Joseph R., to Casket Shells, Inc. Burial casket with identification capsule. 4,697,316, 10-6-87, Cl. 27-1.000.

Semp, Bernard A.: *See—*
Malik, Vedpal S.; Semp, Bernard A.; Bravo, Hernan G.; and Tenglin, Daniel M., 4,685,478, Cl. 131-297.000.

Semperlux GmbH: *See—*
Bansbach, Armin; and Albert, Dieter, 4,669,034, Cl. 362-309.000.

Semrau, Hans-Juergen: *See—*
Gehring, Fritz; Roth, Siegfried; and Semrau, Hans-Juergen, 4,690,177, Cl. 139-449.000.

Semsarzadeh, Mohammad A., to Princeton Polymer Laboratories. Thermoplastics-metal fiber threads. 4,639,396, 1-27-87, Cl. 428-373.000.

Semtronics Corporation: *See—*
Breidegam, Albert C., 4,639,825, Cl. 361-212.000.

Sen Gupta, Sisir K., to Talon, Inc. Semi-automatic apparatus for attaching flypieces to a slide fastener chain. 4,638,557, 1-27-87, Cl. 29-766.000.

Sen, Pabitra N.: *See—*
Kenyon, William E.; Baker, Paul L.; Sen, Pabitra N.; and Banavali, Jayanth R., 4,703,277, Cl. 324-323.000.

Senasack, Henry E., Jr.: *See—*
Teske, Duane R.; Senasack, Henry E., Jr.; and Wilkins, Mark, 4,637,272, Cl. 74-424.80R.

Senba, Takashi; and Tachikawa, Satoru, to Mitsubishi Denki Kabushiki Kaisha. Automatic ultrasonic flaw detecting system. 4,700,572, 10-20-87, Cl. 73-622.000.

Senco Products, Inc.: *See—*
Cotta, Gilbert A., 4,646,852, Cl. 173-128.000.
Kramer, Francis J., 4,679,719, Cl. 227-5.000.
Massari, Donald J., Jr.; and Hall, Robert J., 4,688,710, Cl. 227-109.000.

Sencorp: *See—*
Becht, Carl T., 4,671,443, Cl. 227-109.000.

Senda, Eiichi, to Nippondenso Co., Ltd. Shaft coupler for coupling a rotary shaft of an ignition distributor to an engine camshaft. 4,696,658, 9-29-87, Cl. 464-112.000.

Senda, Hisakazu: *See—*
Asano, Hideharu; and Senda, Hisakazu, 4,697,008, Cl. 536-89.000.

Senda, Kouji: *See—*
Tajima, Noriyasu; Sakura, Yasuhiro; Futakata, Takashi; Senda, Kouji; and Seki, Kazuaki, 4,700,792, Cl. 177-178.000.

Senda, Tetsuji; and Baba, Takashi, to Fujimi Kenmazai Kogyo Kabushiki Kaisha. Polishing composition for memory hard disc. 4,705,566, 11-10-87, Cl. 106-3.000.

Senda, Yutaka; Sato, Katsuhiko; Kozawa, Tetsuo; Nomura, Etsuzo; and Sakakibara, Yasuo, to Brother Kogyo Kabushiki Kaisha. Control unit for providing seam length control of a sewing machine. 4,706,584, 11-17-87, Cl. 112-121.110.

Sendax, Victor I. Magnetic dental implant retention system. 4,693,686, 9-15-87, Cl. 433-173.000.

Sendelbach, Lee A.: *See—*
Fawcett, Bradley W.; and Sendelbach, Lee A., 4,692,758, Cl. 340-735.000.

Sendelweck, Gene K., to RCA Corporation. Synchronizing circuit with improved interlace arrangement. 4,709,267, 11-24-87, Cl. 358-148.000.

Sender, Friedhelm. Borehole antenna array for determining radar incidence direction. 4,670,717, 6-2-87, Cl. 324-338.000.

Senderowicz, Daniel: *See—*
Nicolini, Germano; and Senderowicz, Daniel, 4,714,895, Cl. 330-258.000.

Sendor, Bernard T.; and Sendor, Mortimer S., to Sendor Bindery, Inc. Book pocket assembly and blank therefor. 4,696,490, 9-29-87, Cl. 281-15.00R.

Sendor Bindery, Inc.: *See—*
Sendor, Bernard T.; and Sendor, Mortimer S., 4,696,490, Cl. 281-15.00R.

Sendor, Mortimer S.: *See—*
Sendor, Bernard T.; and Sendor, Mortimer S., 4,696,490, Cl. 281-15.00R.

Seneca Wire and Manufacturing Company: *See—*
Stokes, William H., 4,664,260, Cl. 206-386.000.

Senek, Dexter S.: *See—*
Geer, Ralph D.; Morgan, Robert L.; and Senek, Dexter S., 4,705,260, Cl. 266-78.000.

Seneker, Carl A.: *See—*
Carson, Dennis W.; Schmitt, Robert J.; Seneker, Carl A.; Van Kuren, Thomas A.; and Wallace, David R., 4,680,346, Cl. 525-486.000.

Seneico Limited: *See—*
Curtis, Stephen P.; and Jordan, Gary V., 4,679,046, Cl. 342-51.000.

Senet, Jean-Pierre: *See—*
Barcelo, Gerard; Senet, Jean-Pierre; and Sennyey, Gerard, 4,652,665, Cl. 556-437.000.
Malfroot, Thierry; Piteau, Marc; and Senet, Jean-Pierre, 4,697,032, Cl. 558-270.000.

Seney, John S. Pain-alleviating tissue treatment assembly. 4,646,735, 3-3-87, Cl. 128-303.100.

Senez, Alain: *See—*
Thiersault, Jean P.; and Senez, Alain, 4,634,735, Cl. 525-88.000.

Senf, John W.: *See—*
Eisenhut, Wolfgang O.; and Senf, John W., 4,701,112, Cl. 417-345.000.

Senft, Stephen P.: *See—*
Morris, Merle E.; and Senft, Stephen P., 4,702,717, Cl. 445-27.000.

Senftle, Frank E.: *See—*
Thorpe, Arthur N.; Senftle, Frank E.; and Alexander, Corriane C., 4,661,118, Cl. 44-1.0SR.

Seng, Berthold: *See—*
Gerstner, Bruno; Pfeiffer, Rudiger; and Seng, Berthold, 4,651,040, Cl. 310-166.000.

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Collins, Michael S.; Tsay, Grace C.; and Seng, Richard L., 4,693,891, Cl. 424-92.000.

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Hohman, Charles M.; Propster, Mark A.; and Seng, Stephen, 4,670,054, Cl. 106-100.000.

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Nagai, Shoichi; Hiraoka, Saburo; Hama, Shinji; and Senga, Mitsuo, 4,659,386, Cl. 106-120.000.

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Furukawa, Akira; Senga, Takao; and Suzuki, Shigeyoshi, 4,636,452, Cl. 430-112.000.

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Sengbusch, Gunter V., to Akzo NV. Method of and arrangement for extracorporal removal of toxins from blood. 4,702,841, 10-27-87, Cl. 210-638.000.

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Pietzsch, Ludwig; Overlach, Knud; Senger, Detlef; and Breunig, Walter, 4,692,943, Cl. 382-8.000.

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Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; Sengoku, Koji; and Nagatome, Yoshiaki, 4,645,681, Cl. 426-634.000.
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Ohtake, Yasuhisa; Kudou, Makoto; and Sengoku, Yasushi, 4,662,984, Cl. 156-637.000.

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Tamura, Takahiko; and Sengoku, Yoshinari, 4,692,793, Cl. 358-29.000.

Sengul, M. Marc; and Hinchman, Steven B., to Marathon Oil Company. Cyclic flooding of a naturally-fractured formation. 4,694,904, 9-22-87, Cl. 166-252.000.

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Sengupta, Mrinal K., to Exxon Production Research Company. Time-offset-frequency-amplitude panels for seismic identification of hydrocarbons. 4,694,438, 9-15-87, Cl. 367-70.000.

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Barry, Michael J.; Senior, Adrian; and Beech, Alan E., 4,649,288, Cl. 307-84.000.

Senior, Ian S. T. Head joints for transverse flutes. 4,672,878, 6-16-87, Cl. 84-384.000.

Senior, John M.; and Cusworth, Stewart D., to Monicell Limited. Optical transducer and measuring device. 4,670,649, 6-2-87, Cl. 250-227.000.

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May, Keith; Gani, Mohamed M.; and Senior, Stephanie J., 4,659,666, Cl. 435-188.000.

Senju Metal Industry Co., Ltd.: *See—*
Kawamata, Yuuji; Iino, Tomohiko; Suzuki, Ryoichi; and Haga, Noriyuki, 4,695,481, Cl. 427-96.000.
Zen, Mitsuo, 4,660,648, Cl. 169-38.000.

Senju Pharmaceutical Co., Ltd.: *See—*
Ando, Tetsuya, 4,707,343, Cl. 422-300.000.

Senkan, Selim M., to Illinois Institute of Technology. Production of higher molecular weight hydrocarbons from methane. 4,714,796, 12-22-87, Cl. 585-328.000.

Senkbeil, Herman O.: *See—*
Dunbar, Joseph E.; Holmsen, Theodore W.; and Senkbeil, Herman O., 4,701,211, Cl. 71-121.000.

Senkingwerk GmbH: *See—*
Steinort, Hans, 4,676,154, Cl. 100-37.000.
Stoll, Karl-Heinz, 4,694,665, Cl. 68-27.000.

Senko Medical Instrument Mfg. Co. Ltd.: *See—*
Phuc, Tran N., 4,702,678, Cl. 417-360.000.

Senmar Corporation: *See—*
Sankey, Brian; and Sankey, Douglas, 4,706,847, Cl. 222-1.000.

Senmed, Inc.: *See—*
Chow, Hector; Melling, Hugh; and Schieltz, Denise S., 4,633,861, Cl. 128-305.000.
Chow, Hector; Melling, Hugh; and Schieltz, Denise S., 4,633,874, Cl. 128-334.00R.

Fox, William D.; and Mereness, William M., 4,648,542, Cl. 227-19.000.

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Senn, Georg: *See*—
Barten, Antonius M.; and Senn, Georg, 4,667,706, Cl. 139-452.000.

Senn, Herbert: *See*—
Heiniger, Peter; Masek, Jaroslav; and Senn, Herbert, 4,642,025, Cl. 415-139.000.

Senn, Werner: *See*—
Katzmann, Harald; Senn, Werner; and Ammann, David, 4,690,029, Cl. 86-20.110.

Senni, Paolo; Zuliani, Leandro; and Ferruzzi, Sergio, to Chimica del Friuli S.p.A. Method of preparing ω-lactams, in particular caprolactam. 4,647,661, 3-3-87, Cl. 540-537.000.

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Barcelo, Gerard; Senet, Jean-Pierre; and Sennyey, Gerard, 4,652,665, Cl. 556-437.000.

Seno, Eugene T.: *See*—
Birmingham, Virginia A.; and Seno, Eugene T., 4,680,265, Cl. 435-172.300.

Seno, Makito; Misawa, Yoshihiko; Maeda, Yoshinobu; and Fukumoto, Kengi, to Matsushita Electric Industrial Co., Ltd. Parts mounting apparatus. 4,706,379, 11-17-87, Cl. 29-740.000.

Seno, Manabu: *See*—
Kuroyanagi, Yoshimitsu; Miyata, Teruo; and Seno, Manabu, 4,642,118, Cl. 623-15.000.

Senoh, Hideaki: *See*—
Kagota, Nobuhiro; and Senoh, Hideaki, 4,640,714, Cl. 106-21.000.
Torii, Takahiro; Ishiguro, Mamoru; and Senoh, Hideaki, 4,642,662, Cl. 346-215.000.

Senoh, Makoto: *See*—
Izumi, Shigeru; Senoh, Makoto; Tsumaki, Koji; and Miyata, Kenji, 4,641,526, Cl. 73-572.000.

Senoo, Keiichi, to NEC Corporation. Remote control system for data communication utilizing modems. 4,663,754, 5-5-87, Cl. 370-13.000.

Senoo, Takahiro: *See*—
Tomiyori, Takashi; and Senoo, Takahiro, 4,674,994, Cl. 474-24.000.

Senoo, Takashi: *See*—
Tsuji, Kanji; Tamatani, Yasuyuki; and Senoo, Takashi, 4,646,791, Cl. 139-435.000.

Senoo, Yoji, to Sharp Kabushiki Kaisha. Device to prevent transport of poorly aligned copy paper. 4,638,989, 1-27-87, Cl. 271-227.000.

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Klepsch, Wilhelm; and Plobst, Dietmar, 4,695,239, Cl. 425-194.000.

Senopole, John J.: *See*—
Kurtti, Gary R.; Ches, Gregory S.; Brender, David T.; and Senopole, John J., 4,684,077, Cl. 242-107.600.

Senoue, Makoto; Terase, Kunihiko; and Nakaya, Keiichi, to Asahi Glass Company, Ltd. Method for treating a waste gas. 4,673,558, 6-16-87, Cl. 423-240.000.

Senoue, Masaharu; and Naruse, Haruhiko, to Matsushita Electric Works, Ltd. Bedsore preventing apparatus. 4,653,130, 3-31-87, Cl. 5-453.000.

Sensabaugh, Andrew J., Mangan, William P., and Marsh, Arvol C., to Alfred & Christian Peterson, Ltd. Dry pre-mix for moist snuff. 4,660,577, 4-28-87, Cl. 131-352.000.

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Banerjee, Chandra K.; Farrier, Ernest G.; Reynolds, John H., IV; Ridings, Henry T.; Sensabaugh, Andrew J., Jr.; Shannon, Michael D.; and Shelar, Gary R., 4,714,082, Cl. 131-359.000.

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Eckert, Donald C.; George, J. Richard; Lilley, George L.; Sensenig, Darryl L.; and Tshudy, James A., 4,654,244, Cl. 428-47.000.

Senshu, Hisashi: *See*—
Ohshima, Tetsuya; Senshu, Hisashi; Matsuyama, Takeshi; Kawagishi, Yoji; Andoh, Takuo; and Kiryu, Takashi, 4,656,113, Cl. 430-137.000.

Senske, Wilhelm; Herkert, Roland; Marschall, Norbert; and Greeb, Karl-Heinrich, to Licentia Patent-Verwaltungs-GmbH. Homogeneous photoconductive layer of amorphous silicon and hydrogen. 4,713,311, 12-15-87, Cl. 430-127.000.

Senso, Hitoshi, to Pioneer Electronic Corporation. Disk size detecting circuit. 4,653,040, 3-24-87, Cl. 369-239.000.

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Mitchell, David H.; and Mitchell, Ralph M., 4,713,347, Cl. 436-501.000.

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Fiori, David, Jr., 4,637,265, Cl. 73-862.330.
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Farrar, James G.; and Eskandry, Ezra D., 4,686,513, Cl. 340-572.000.
Humphrey, Floyd B., 4,660,025, Cl. 340-572.000.
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Pfaff, Paul H.; Spagna, Richard N.; Clucas, Robert A.; Coulson, Paul; and Eskandry, Ezra D., 4,679,035, Cl. 340-572.000.
Woolsey, Charles W.; Eskandry, Ezra D.; and Pinneo, George G., 4,642,640, Cl. 342-42.000.

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Bachman, Thomas E.; McDavid, Larry S.; and Trueblood, David M., 4,697,450, Cl. 73-23.000.
Beebe, Cedric H.; McDavid, Larry S.; and Pawlowski, Michael, 4,705,617, Cl. 204-402.000.

Sensors, Inc.: *See*—
Howard, Charles P., 4,657,744, Cl. 422-52.000.
Howard, Charles P.; and Stedman, Donald H., 4,678,488, Cl. 55-406.000.

Senstar Security Systems Corporation: *See*—
Edwards, Hugh A.; and Patchell, John W., 4,660,007, Cl. 333-237.000.
Rich, Brian G.; Patchell, John W.; and Harman, R. Keith, 4,710,753, Cl. 340-561.000.

Sensui, Hideyuki; Suzuka, Susumu; Gonda, Michihiro; and Kikkawa, Katsumasa, to Hodogaya Chemical Co., Ltd. 6-tetrahydrofurfurylaminofluoran compound useful as a color former on an heat sensitive recording sheet. 4,642,663, 2-10-87, Cl. 346-221.000.

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Baker, Richard W.; and Funk, Roger L., 4,654,127, Cl. 204-1.00T

Sentient Systems Technology, Inc.: *See*—
Friedman, Mark B.; Kiliany, Gary J.; and Dzmura, Mark R., 4,648,052, Cl. 364-550.000.

Sentman, Robert C.: *See*—
Curatolo, Benedict S.; Sentman, Robert C.; and Coffey, Gerald P., 4,640,976, Cl. 528-336.000.
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Sentoku, Hideshi: *See*—
Uematsu, Yoshiaki; and Sentoku, Hideshi, 4,635,661, Cl. 133-3.00R.

Sentrachem Limited: *See*—
Shaw, Peter; and Coetzee, Jan, 4,657,669, Cl. 209-167.000.

Sentralinstitutt for Industriell Forskning: *See*—
Hognestad, Harek, 4,656,595, Cl. 364-507.000.

Sentrol, Inc.: *See*—
Abel, William E., 4,661,804, Cl. 340-539.000.
Abel, William E., 4,692,752, Cl. 340-604.000.

Sentron v.o.f.: *See*—
Feijen, Jan; and Hennink, Wilhelmus E., 4,634,762, Cl. 530-350.000.
Ligtenberg, Hendrikus C. G.; and Leuveld, Jozef G. M., 4,701,253, Cl. 204-416.000.
Otten, Josephus M., 4,672,971, Cl. 128-635.000.
v.d. Vlekkert, Hendrik H.; and de Rooy, Nicolaas F., 4,691,167, Cl. 324-438.000.

Sentry Technologies, Inc.: *See*—
Kallestad, Daniel R.; and Satre, Kenneth L., 4,688,332, Cl. 34-34.000.

Senuma, Kazuya: *See*—
Nagoshi, Toshiharu; Totsuka, Hidehiko; Taira, Takeshi; Gotoh, Youkichi; and Senuma, Kazuya, 4,645,249, Cl. 293-102.000.

Senz, R. John, to Lubrizol Corporation, The. Modified asphalt compositions comprising a nitrogen derivative of an esterified copolymer. 4,677,146, 6-30-87, Cl. 524-69.000.

Senza Gel Corporation: *See*—
LoBiondo, Salvatore J.; and LoBiondo, Joseph V., 4,660,253, Cl. 17-26.000.

Senzai, Shigeo: *See*—
Yasui, Shigeo; Ono, Masashi; Kobayashi, Seiko; Senzai, Shigeo; and Uchida, Tatsuo, 4,676,923, Cl. 252-299.100.

Senzaki, Hisao: *See*—
Umeya, Kazumasa; Shioi, Ryoichi; Senzaki, Hisao; Nakagawa, Hisao; Koyama, Shoji; and Kataoka, Hideshi, 4,654,510, Cl. 219-541.000.

Seo, [illegible]kira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Nishimura, Akira; Konaka, Shigeo; Ohmi, Tetsuto; Munechika, Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, to Nihon Nohyaku Co., Ltd. Ketene S,S-acetal derivative, a process for manufacturing thereof and a method for curing mycosis by administering it. 4,636,519, 1-13-87, Cl. 514-397.000.

Seo, Iwao: *See*—
Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, 4,701,659, Cl. 310-334.000.
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Seo, Kiyokazu; Furuhashi, Kuniyoshi; Natori, Sadaaki; and Matsumoto, Masashi, to Toyota Jidosha Kabushiki Kaisha. Vehicle body structure. 4,653,230, 3-31-87, Cl. 49-502.000.

Seo, Soo C., to Samsung Co., Ltd. Metal sensing apparatus for use in operable toys. 4,658,928, 4-21-87, Cl. 180-168.000.

Seo, Sun K., to Samsung Electronics Co., Ltd. Humidifier for removing bacilli from water. 4,663,091, 5-5-87, Cl. 261-72.100.

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Hiraoka, Shigeaki; and Seo, Takamasa, 4,697,071, Cl. 235-379.000.

Seo, Yosuke: *See*—
Hirano, Yoshiyuki; Seo, Yosuke; Okuwaki, Toyoji; Kato, Katsuhiko; and Tamura, Takashi, 4,651,242, Cl. 360-103.000.
Ohta, Norio; Okamine, Shigenori; Sugita, Yutaka; Seo, Yosuke; and Tamura, Takashi, 4,707,755, Cl. 360-114.000.
Seon, Francoise; and Boudot, Bernard, to Rhone-Poulenc Specialites Chimiques. Novel neodymium/iron alloys. 4,636,353, 1-13-87, Cl. 420-416.000.
Sepai, Dinyar, to Crosfield Electronics (USA) Limited. Method of operating radiation sensors. 4,698,515, 10-6-87, Cl. 250-578.000.
Sepe, Edmund N.: *See*—
Goodrich, Robert R.; and Sepe, Edmund N., 4,699,443, Cl. 439-188.000.
Sepold, Gerd K.-H.: *See*—
Juptner, Werner P.-O.; Rothe, Rudiger G. R. V.; and Sepold, Gerd K.-H., 4,667,080, Cl. 219-121.0LQ.
Sepp, Henry A., Jr.: *See*—
Ezekoye, L. Ike; Rusnica, Edward J.; and Sepp, Henry A., Jr., 4,716,005, Cl. 376-205.000.
Sepp, Walter E.: *See*—
Nicholson, Warren H.; and Sepp, Walter E., 4,635,099, Cl. 358-17.000.
Seppala , Jukka, to Neste Oy. Procedure for making copolymers of ethylene and long-chained alpha olefins. 4,690,991, 9-1-87, Cl. 526-158.000.
Seppanen, Hanneli: *See*—
Lofgren, Barbro U.; Luciani, Luciano; Seppanen, Hanneli; Stjernberg, Maria H.; and Iiskola, Eero I., 4,673,661, Cl. 502-111.000.
Seppen, Jan J.; and van der Weide, Jouke, to Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek. System and device for exhaust gas recirculation in combustion machine. 4,635,609, 1-13-87, Cl. 123-568.000.
Seppic SA: *See*—
Brancq, Bernard; and Malandain, Michel, 4,665,648, Cl. 47-57.600.
Sepponen, Raimo, to Instrumentarium Corp. Method of analysing the structure and characteristics of an object. 4,654,594, 3-31-87, Cl. 324-309.000.
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Sepponen, Raimo E. Medical diagnostic microwave scanning apparatus. 4,641,659, 2-10-87, Cl. 128-653.000.
Sepragen Corporation: *See*—
Andresen, Brian D.; and Fought, Eric R., 4,705,616, Cl. 204-299.00R.
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Saxena, Vinit, 4,676,898, Cl. 210-198.200.
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Sepulveda, Domingo: *See*—
Matthews, John A.; Striebel, Edmund E.; Sepulveda, Domingo; and Pane, Francis C., Jr., 4,677,828, Cl. 60-751.000.
Sequeira, Hermann B., to Martin Marietta Corporation. Compound dielectric multi-conductor transmission line. 4,677,404, 6-30-87, Cl. 333-238.000.
Sequeira, Hermann B., to Martin Marietta Corporation. Dielectric slab circulators. 4,689,584, 8-25-87, Cl. 333-1.100.
Sequeira, Hermann B., to Martin Marietta Corporation. Dielectric slab signal isolators. 4,689,585, 8-25-87, Cl. 333-24.200.
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Zupon, Michael A.; and Sequeira, Joel A., 4,699,777, Cl. 424-28.000.
Sequeira, Richard J.; and Valadez, Frank R. Gas flow pulsation dampener and pressure differential control. 4,681,136, 7-21-87, Cl. 137-494.000.
Sequoia Systems, Inc.: *See*—
Stiffler, Jack J.; Budwey, Michael J.; and Nolan, James M., 4,654,819, Cl. 364-900.000.
Sequoia-Turner Corporation: *See*—
Schwartz, Henry L., 4,713,218, Cl. 422-99.000.
von Behrens, Wieland E., 4,710,021, Cl. 356-72.000.
Sera, Hidefumi: *See*—
Dan, Shigeyuki; Ishii, Kazuo; Kato, Eiichi; and Sera, Hidefumi, 4,665,002, Cl. 430-114.000.
Sera, Michitoshi; Watanabe, Mitukazu; and Aoki, Kiyoshi, to Kabushiki Kaisha Toshiba. Plunger for a multi-plunger type resin mold device. 4,708,613, 11-24-87, Cl. 425-117.000.
Sera, Taizo: *See*—
Iwamura, Yoshinari; Okimoto, Katsunori; Teshima, Toshio; Miyahara, Shinobu; Uchida, Shigetaka; Sera, Taizo; and Ozawa, Koichi, 4,646,977, Cl. 239-590.500.
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Eguchi, Kiyoshi; Ishikawa, Takayoshi; Tamaru, Shigemi; Genba, Yasushi; and Sera, Tsutomu, 4,655,538, Cl. 339-255.00P.
Serac Limited: *See*—
Walker, David P., 4,662,038, Cl. 24-460.000.
Serafin, Frank G., to W. R. Grace & Co. Grinding aids for hydraulic cement. 4,643,362, 2-17-87, Cl. 241-16.000.
Serafin, Frank G., to W. R. Grace & Co. Method of grinding a hydraulic cement. 4,711,401, 12-8-87, Cl. 241-16.000.
Serafini, Angelo: *See*—
Wells, Thomas J.; and Serafini, Angelo, 4,639,957, Cl. 5-248.000.
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Serafini, Giulio: *See*—
Ripani, Sergio; and Serafini, Giulio, 4,666,090, Cl. 241-101.200.
Ripani, Sergio; and Serafini, Giulio, 4,688,177, Cl. 364-468.000.
Seragnoli, Enzo, to G.D. Societa per Azioni. Cigarette transfer device. 4,645,063, 2-24-87, Cl. 198-450.000.
Seragnoli, Enzo, to G.D. Societa per Azioni. Production machine for the simultaneous manufacture of continuous cigarette rods. 4,646,758, 3-3-87, Cl. 131-84.300.
Seragnoli, Enzo; and Gamberini, Antonio, to G.D. Societa per Azioni. Device for converting the continuous rotary motion of a drive shaft into the intermittent rotary motion of a driven shaft. 4,688,442, 8-25-87, Cl. 74-426.000.
Serain, Daniel: *See*—
Benbassat, Gerard V.; and Serain, Daniel, 4,700,322, Cl. 364-513.500.
Serap, Deborah: *See*—
Serap, Earl; and Serap, Deborah, 4,695,903, Cl. 358-335.000.
Serap, Earl; and Serap, Deborah, to Schuman, Deborah Pauline. Audio video entertainment module. 4,695,903, 9-22-87, Cl. 358-335.000.
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Capwell, Robert J.; Kaschak, Ronald A.; McBride, Donald G.; Rickert, Robert G.; and Seraphim, Donald P., 4,707,377, Cl. 427-8.000.
Serban, Alexander; Watson, Keith G.; and Farquharson, Grame J., to ICI Australia Limited. Quinoxalinyloxy phenoxy propionic acid derivatives as selective herbicides. 4,655,819, 4-7-87, Cl. 71-92.000.
Serban, Alexander; and Jensen, Wendy A. Substituted phenylamine- and phenyloxy-quinazolines as herbicides. 4,675,047, 6-23-87, Cl. 71-92.000.
Serber, Hector. Ergonomic seating assembly system with front chest support component, pelvic tilt seat component and related attachments. 4,650,249, 3-17-87, Cl. 297-313.000.
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Lassen, Frederich O.; Sherrod, Earle H.; Nichols, Ann M.; and Serbiak, Paul J., 4,673,403, Cl. 604-385.00R.
Serbin, David J.: *See*—
Cole, William M.; Fenske, Steven L.; Serbin, David J.; Malani, Shrikant R.; Clark, Frank J.; and Beattie, Joanne L., 4,681,929, Cl. 528-493.000.
Seredinin, Sergei B.: *See*—
Lozinsky, Miron O.; Bobkov, Jury G.; Shinanjuk, Alla F.; Gevaza, Jury I.; Markovsky, Leonid N.; Kuznetsova, Galina A.; Markin, Valentin A.; Kleimenova, Natalya N.; Tents,ova, Antonina I.; Motalov, Alexandr N.; Seredinin, Sergei B.; Katkov, Vladimir F.; Vinogradov, Vasily M.; and Kulinsky, Vladimir I., 4,691,046, Cl. 560-196.000.
Sereg: *See*—
De Paepe, Thijlbert; and Crochet, Gerard, 4,709,583, Cl. 73-861.170.
Sereg, S.A.: *See*—
Bertrand, Pierre, 4,665,753, Cl. 73-706.000.
Bertrand, Pierre C., 4,666,656, Cl. 376-247.000.
Sereny, Aron: *See*—
Domoto, Gerald A.; and Sereny, Aron, 4,635,082, Cl. 346-160.000.
Seres, Alex, to Incoe Corporation. Pulley for downrigger weighted line. 4,644,678, 2-24-87, Cl. 43-4.000.
Seres, Zoltan S. Pyramid shaped puzzle. 4,657,255, 4-14-87, Cl. 273-113.000.
Serf, Josef: *See*—
Graef, Kurt; Axt, Egon; Wirtz, Hans-Peter; Lauscher, Friedrich; Potzsch, Werner; Korfer, Peter; Sastrarahardja, Paulus; Croonen, Werner; and Serf, Josef, 4,649,763, Cl. 74-763.000.
Serfaty, Salomon; and Cohen, Mordechay, to Motorola, Inc. Clock recovery circuit. 4,651,026, 3-17-87, Cl. 307-269.000.
Sergeant, Timothy L., to Gerber Products Company. Diaper. 4,676,787, 6-30-87, Cl. 604-384.000.
Sergeant, Timothy L.: *See*—
Gerry, Elisabeth H.; and Sergeant, Timothy L., 4,654,254, Cl. 428-252.000.
Sergent, Rodney H.; and Thanstrom, Kenneth N., to Great Lakes Chemical Corporation. Process for metal recovery and compositions useful therein. 4,637,865, 1-20-87, Cl. 204-111.000.
Sergero, Tommy S.: *See*—
Madsen, Henning S.; Sergero, Tommy S.; and Johansson, Karl A., 4,697,334, Cl. 29-594.000.
Sergienko, Nikolai M., to Kievsky Nauchno-Issledovatelsky Institut Klinicheskoi I Experimentalnoi Khirurgii. Artificial eye lens. 4,642,115, 2-10-87, Cl. 623-6.000.
Sericol Group Limited: *See*—
Dickinson, Peter; and Ellwood, Michael, 4,659,649, Cl. 430-280.000.
Serie, Frank: *See*—
Woodward, Tommy J.; Serie, Frank; and Specter, George, 4,665,602, Cl. 29-254.000.
Serikawa, Yoshio, to Ricoh Company, Ltd. Flash photographing system. 4,701,041, 10-20-87, Cl. 354-413.000.
Serikawa, Yoshio: *See*—
Araki, Kunihiko; Kitajima, Tomoya; Serikawa, Yoshio; Terui, Hiroshi; Koyama, Kenji; and Kobayashi, Mikio, 4,653,885, Cl. 354-173.100.
Serini, Volker; Schulte, Bernhard; Waldenrath, Werner; Freitag, Dieter; Hucks, Uwe; Wank, Joachim; and Weber, Hans-Leo, to Bayer Aktiengesellschaft. High molecular weight polyesters, preparation and use thereof. 4,654,411, 3-31-87, Cl. 528-176.000.
Serini, Volker; Freitag, Dieter; and Rathmann, Dietrich, to Bayer Aktiengesellschaft. Process for the preparation of aromatic polyester-carbonates having improved notched impact strength, and polyester-

carbonates prepared thereby and their use for the production of mouldings, films and coatings. 4,714,746, 12-22-87, Cl. 525-439.000.
Serino, David F.: *See*—
Nelson, Robert E.; Ziegler, Anton A.; Serino, David F.; and Basnar, Paul J., 4,666,676, Cl. 422-159.000.
Serino, Mamoru: *See*—
Sato, Koji; Kuroda, Hiroshi; Yamada, Ryuji; and Serino, Mamoru, 4,715,657, Cl. 299-1.000.
Serio, Andre L.: *See*—
Vidal, Jean E.; and Serio, Andre L., 4,671,704, Cl. 405-195.000.
Serizawa, Hajime; Ogihara, Keizo; Shimizu, Kiyoshi; and Harada, Susumu, to Nitto Boseki Co., Limited. Process for producing novel photosensitive resins. 4,701,497, 10-20-87, Cl. 525-292.000.
Serizawa, Hiroyuki: *See*—
Shibata, Jun; and Serizawa, Hiroyuki, 4,710,936, Cl. 372-45.000.
Serizawa, Kenkichi: *See*—
Komatsu, Isamu; and Serizawa, Kenkichi, 4,706,004, Cl. 318-568.000.
Serizawa, Mitsuya: *See*—
Kawamoto, Yoshimich; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,687,216, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,695,068, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,697,816, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi, Hamada, Tetsuro; and Serizawa, Mitsuya, 4,703,822, Cl. 180-140.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,703,945, Cl. 280-91.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,705,135, Cl. 180-236.000.
Kawamoto, Yoshimichi; Furukawa, Yoshimi; Hamada, Tetsuro; and Serizawa, Mitsuya, 4,706,976, Cl. 280-91.000.
Serizawa, Takashi: *See*—
Baba, Takeshi; Imataki, Hiroyuki; Usui, Masayuki; Serizawa, Takashi; and Nose, Hiroyasu, 4,712,882, Cl. 350-413.000.
Usui, Masayuki; Imataki, Hiroyuki; Serizawa, Takashi; Baba, Takeshi; and Nose, Hiroyasu, 4,714,326, Cl. 350-485.000.
Serizawa, Yoshinori; and Hayakawa, Masaharu, to Mitsubishi Denki Kabushiki Kaisha. Magnetic video recording and reproducing apparatus. 4,644,415, 2-17-87, Cl. 360-10.300.
Sermac Industries, Inc.: *See*—
Stapelfeld, Bernard E.; and Beaver, Donald L., Jr., 4,659,478, Cl. 210-690.000.
Sermatech International, Inc.: *See*—
Mosser, Mark F.; and McMordie, Bruce G., 4,659,613, Cl. 428-215.000.
Sermet, Pierre: *See*—
Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacquot, Claude; Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Jean-Claude; Sermet, Pierre; Zadwerny, Francois; and Bourg, Francois, 4,638,216, Cl. 315-111.810.
Sermetel: *See*—
Mosser, Mark F.; and Eddinger, Kevin, 4,650,699, Cl. 427-240.000.
Sermetel Corp.: *See*—
Hornberger, Dennis A., 4,699,839, Cl. 428-312.800.
Sernetz, Friedrich: *See*—
Iniotakis, Nicolas; von der Decken, Claus-Benedict; Fedders, Heinrich; Frohling, Werner; and Sernetz, Friedrich, 4,699,637, Cl. 55-158.000.
Serno, Peter, to Bayer Aktiengesellschaft. Medicament formulation. 4,711,902, 12-8-87, Cl. 514-356.000.
Serono Diagnostics Limited: *See*—
Forrest, Gordon C.; Salaciuski, Philip R. P.; and Siddle, Kenneth, 4,659,678, Cl. 436-512.000.
Serotonin Industries of Charleston: *See*—
Crosby, Martin G., 4,698,342, Cl. 514-253.000.
Serou, Charles M.; and Brunner, Peter, to Diethelm & Co. AG. Floor cleaning or treatment machine. 4,651,378, 3-24-87, Cl. 15-49.00R.
Seroussi, Henry I. Nargile - oriental tobacco water pipe for smoking cured tobaccos. 4,648,410, 3-10-87, Cl. 131-173.000.
Serpelloni, Michel; and Lemay, Patrick, to Roquette Freres. Directly compressible granular mannitol and method for its manufacture. 4,661,647, 4-28-87, Cl. 568-868.000.
Serpelloni, Michel; and Bussiere, Guy, to Roquette Freres. Sugarless ice cream and process for producing it. 4,675,200, 6-23-87, Cl. 426-567.000.
Serpico, Robert M. Personal time capsule. 4,665,668, 5-19-87, Cl. 52-169.200.
Serpone, Nick: *See*—
Graetzel, Michael; Serpone, Nick; and Duonghong, Dung, 4,684,537, Cl. 427-53.100.
Serra, Oberto; Abbott, Hayden; Kerbart, Yves; and Vincent, Philippe, to Schlumberger Technology Corporation. Method and apparatus for determining geological facies. 4,646,240, 2-24-87, Cl. 364-422.000.
Serrander, Hans R., to Telefonaktiebolaget LM Ericsson. Apparatus for mutually aligning the ends of two optical fibres that are to be connected. 4,697,872, 10-6-87, Cl. 350-96.210.
Serrano, Jose L.: *See*—
Lopez, Carlos; and Serrano, Jose L., 4,692,805, Cl. 338-198.000.
Serrano, Ricardo J. P.: *See*—
Garcia, Victor G.; Serrano, Ricardo J. P.; Elizalde, Fernando V.; and Cardenas, Luis F., 4,654,066, Cl. 65-29.000.
Serreze, Harvey B.: *See*—
Schachter, Rozalie; Viscogliosi, Marcello; Bunz, Lewis A.; Olego, Diego J.; Serreze, Harvey B.; and Raccah, Paul M., 4,696,828, Cl. 427-38.000.
Serrone, Michael J.; Halloran, Timothy P.; and Wagner, Gary L., to Ford Aerospace & Communications Corporation. Lock detector for bit synchronizer. 4,675,558, 6-23-87, Cl. 307-527.000.
Serth, Debra E.: *See*—
DeMinco, Chris M.; Field, Martin J.; and Serth, Debra E., 4,703,738, Cl. 123-520.000.
Servadio, Robert. Punching bag rebound adjuster. 4,660,827, 4-28-87, Cl. 272-78.000.
Servadio, Vittorino: *See*—
Chiesi, Paolo; and Servadio, Vittorino, 4,690,944, Cl. 514-445.000.
Servais, Raoul, to AGFA-Gevaert N.V. Method for the production of a combined live-action and animation motion picture film. 4,695,141, 9-22-87, Cl. 352-50.000.
Servant, Mireille: *See*—
Hache, Jean C.; and Servant, Mireille, 4,673,265, Cl. 351-217.000.
Servas, Francis M.: *See*—
Zupkas, Paul F.; Servas, Francis M.; Pavlov, Todor; and Kelly, Steven G., 4,642,089, Cl. 604-4.000.
Servaux, Jean: *See*—
Ackermann, Horst W.; Masek, Petr; and Servaux, Jean, 4,679,701, Cl. 220-404.000.
Servay, Willy, to Century Products, Ltd. Buckle construction having decorative material retention means. 4,665,591, 5-19-87, Cl. 24-163.00K.
Serve, Klaus, to Manibs. R. Mannesmann GmbH. & ibs Nagel GmbH. & Co. KG. Pipeline for gaseous fluids and method of assembling its components. 4,693,499, 9-15-87, Cl. 285-96.000.
Servel, Michel; and Thomas, Alain. Method and device for converting digital channel multiframes into packet multiframes. 4,713,804, 12-15-87, Cl. 370-68.000.
Servend International, Inc.: *See*—
Landers, Jerry L.; and Fischer, Gregory E., 4,641,763, Cl. 222-129.100.
Landers, Jerry L., 4,694,661, Cl. 62-344.000.
Servent, Jean M., to Societe ACC EL. Radial action torque limiter. 4,704,095, 11-3-87, Cl. 464-37.000.
Servi, John K. Wheelchair shade or canopy means. 4,643,479, 2-17-87, Cl. 297-184.000.
Servi, Rami; Eidelberg, Boaz; Granot, Daniel; Armoza, Ehud; and Sher, Ephraim, to State of Israel, Ministry of Defence, Rafael Armament Development Authority. Method and apparatus for separating feeding and/or folding sheets. 4,708,333, 11-24-87, Cl. 270-45.000.
Servi, Rami: *See*—
Granot, Daniel; Servi, Rami; and Armoza, Ehud, 4,703,926, Cl. 271-90.000.
Service Machine Company: *See*—
Green, Peter J., 4,665,466, Cl. 361-384.000.
Lycan, Jennings, 4,639,558, Cl. 200-1.00V.
Service National Electricite de France: *See*—
Masse, Jean, 4,698,201, Cl. 376-298.000.
Nicolas, Bernard, 4,697,218, Cl. 361-87.000.
Service National: Gaz de France: *See*—
Couprie, Francois, 4,651,680, Cl. 122-20.00B.
Lambert, Maurice, 4,713,158, Cl. 204-196.000.
Service, Robert S. Spice rack. 4,714,305, 12-22-87, Cl. 312-306.000.
ServiceMaster Industries, Inc.: *See*—
DeBoer, Harry F., 4,656,765, Cl. 40-491.000.
Servo Corporation of America: *See*—
Gallagher, Cornelius A., 4,659,043, Cl. 246-169.00A.
Serwer, Philip, to Board of Regents, The University of Texas System. Apparatus for bidimensional electrophoretic separations. 4,693,804, 9-15-87, Cl. 204-182.100.
Seshadri, Jayaram: *See*—
Howland, Leland L.; and Seshadri, Jayaram, 4,685,306, Cl. 62-117.000.
Howland, Leland L.; and Seshadri, Jayaram, 4,706,468, Cl. 62-199.000.
Howland, Leland L.; and Seshadri, Jayaram, 4,711,095, Cl. 62-117.000.
Howland, Leland L.; and Seshadri, Jayaram, 4,712,383, Cl. 62-200.000.
Seshamani, Venkatram; Campbell, Walter R.; and Moore, Paul E., to Foster Wheeler Energy Corporation. Steam generator and method of operating a steam generator utilizing separate fluid and combined gas flow circuits. 4,665,864, 5-19-87, Cl. 122-4.00D.
Seshamani, Venkatraman; and Money, Dudley P., to Foster Wheeler Energy Corporation. Expansion seal assembly. 4,712,938, 12-15-87, Cl. 403-24.000.
Seshima, Tatsuya: *See*—
Takefuta, Hideyasu; and Seshima, Tatsuya, 4,662,491, Cl. 192-0.032.
Seshimoto, Osamu; Nirasawa, Mituharu; Terashima, Masaaki; and Saito, Yoshio, to Fuji Photo Film Co., Ltd. Method and device of measuring ion activity. 4,684,445, 8-4-87, Cl. 204-1.00T.
Seshimoto, Osamu; and Nirasawa, Mitsuharu, to Fuji Photo Film Co., Ltd. Ion selective electrode. 4,707,243, 11-17-87, Cl. 204-418.000.
Seshimoto, Osamu: *See*—
Saito, Yoshio; and Seshimoto, Osamu, 4,655,899, Cl. 204-412.000.
Yamada, Sadao; Takayama, Takeshi; Seshimoto, Osamu; and Yamaguchi, Akira, 4,683,048, Cl. 204-416.000.

Sesona, Giancarlo: *See*—
Zgliczynski, Marek; and Sesona, Giancarlo, 4,706,353, Cl. 29-156.40R.

Sesser, George L., to Nelson Irrigation Corporation. Furrow irrigation bubbler device and spray head conversion assembly utilized therewith. 4,676,438, 6-30-87, Cl. 239-722.000.

Sesser, George L.: *See*—
Nelson, Barton R.; Meyer, Larry P.; and Sesser, George L., 4,660,766, Cl. 239-222.170.

Sesstons, Robert W. Monitoring electrode attachable to a patient. 4,679,564, 7-14-87, Cl. 128-640.000.

Sessler, Martin; and West, James E., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Second order toroidal microphone. 4,675,906, 6-23-87, Cl. 381-92.000.

Sessody, Donald W., to Applied Power Inc. Base component for a fluid transfer device and method of making the component. 4,671,746, 6-9-87, Cl. 417-437.000.

Sestan, Franco, to Telefonia Elettronica e Radio S.p.A. Data transmission telemonitoring equipment and system. 4,635,260, 1-6-87, Cl. 371-22.000.

Sestanj, Kazimir; and Ferdinandi, Eckhardt S., to American Home Products Corporation. N-[[5-(trifluoromethyl)-6-methoxy-1-naphthalenyl]-thioxomethyl and carbonyl]-N-methylglycinamides. 4,672,059, 6-9-87, Cl. 514-62.000.

Sestanj, Kazimir; Abraham, Nedumparambil A.; Bellini, Francesco; and Treasurywala, Adi, to Ayerst, McKenna & Harrison, Inc. N-naphthoylglycine derivatives. 4,705,882, 11-10-87, Cl. 560-10.000.

Sestanj, Kazimir: *See*—
Bellini, Francesco; Sestanj, Kazimir; and Kraml, Michael, 4,672,058, Cl. 514-62.000.

Sestero, Arrigo, to Casio Computer Co., Ltd. Method and device for transforming musical notes. 4,664,010, 5-12-87, Cl. 84-1.010.

Setaka, Yousuke: *See*—
Nagata, Masami; Yanase, Sumio; and Setaka, Yousuke, 4,641,066, Cl. 318-254.000.

Setani, Michitaka: *See*—
Honda, Haruhisa; Tsuchiya, Hiroaki; Setani, Michitaka; and Tokuhara, Mitsuhiro, 4,641,944, Cl. 355-1.000.

SETEC s.r.l.: *See*—
Pagano, Amleto, 4,691,545, Cl. 70-352.000.

Setele, William O., to Kendale Industries, Inc. Bearing assembly. 4,688,952, 8-25-87, Cl. 384-537.000.

Setescak, Linda L.: *See*—
Martin, Lawrence L.; Setescak, Linda L.; and Scott, Susan J., 4,652,567, Cl. 514-254.000.
Martin, Lawrence L.; Setescak, Linda L.; and Scott, Susan J., 4,670,562, Cl. 546-94.000.
Shutske, Gregory M.; Setescak, Linda L.; and Allen, Richard C., 4,673,746, Cl. 546-272.000.

Seth Products, Inc.: *See*—
Skjerseth, Douglas N., 4,686,910, Cl. 108-153.000.

Seth, Pyare L.: *See*—
von Stetten, Otto; Seth, Pyare L.; Schmid, Franz; and Rauchle, Kurt, 4,711,906, Cl. 514-561.000.

Sethi, Dalbir S., to FMC Corporation. Process for purifying a working solution. 4,668,436, 5-26-87, Cl. 260-369.000.

Seti, Inc.: *See*—
Meir, Avraham A., 4,665,332, Cl. 310-77.000.
Meir, Avraham A., 4,696,182, Cl. 73-12.000.

Setliff, Harold: *See*—
London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.
London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,704,976, Cl. 112-262.200.

Seto, Belinda; and Gerety, Robert J., to United States of America, Health and Human Services. Purified antigen from non-A, non-B hepatitis causing factor. 4,673,634, 6-16-87, Cl. 435-5.000.

Seto, Belinda P.; Coleman, William G., Jr.; and Gerety, Robert J., to United States of America, Health and Human Services. Screening test for reverse-transcriptase containing virus such as non-A, non-B hepatitis, NANBH. 4,707,439, 11-17-87, Cl. 435-5.000.

Seto, Haruo; Furihata, Kazuo; and Ohuchi, Muneki, to JEOL Ltd. Nuclear magnetic resonance spectroscopy. 4,689,561, 8-25-87, Cl. 324-307.000.

Seto, Haruo: *See*—
Otake, Noboru; Seto, Haruo; Sasaki, Tetsuo; Sugita, Masanori; and Hiramoto, Shigeru, 4,649,135, Cl. 514-183.000.

Seto, Hideo: *See*—
Miyakawa, Tadashi; Monma, Yoshiyuki; Rikiishi, Yuji; and Seto, Hideo, 4,665,303, Cl. 219-216.000.

Seto, Hiroyuki: *See*—
Murata, Michihiro; Tanaka, Katsuhiko; and Seto, Hiroyuki, 4,691,104, Cl. 250-338.000.

Seto, Junetsu: *See*—
Tamura, Shinichiro; and Seto, Junetsu, 4,693,962, Cl. 430-345.000.

Seto, Kaoru, to Canon Kabushiki Kaisha. Motor control device. 4,639,649, 1-27-87, Cl. 318-314.000.

Seto, Kaoru; Ushio, Yukihide; Hori, Kenjiro; Hashimoto, Hiroshi; Yoshimoto, Toshio; and Kanaiwa, Kiyoshi, to Canon Kabushiki Kaisha. Laser beam printer. 4,712,118, 12-8-87, Cl. 346-108.000.

Seto, Kaoru: *See*—
Kimizuka, Junichi; Ushio, Yukihide; and Seto, Kaoru, 4,695,714, Cl. 250-205.000.

Seto, Kazuo: *See*—
Akasaka, Tamotsu; Tomiuchi, Shinichi; Seto, Kazuo; Matsui, Kenichi; and Sawada, Yasushi, 4,673,543, Cl. 264-82.000.

Seto, Koichi: *See*—
Fujimura, Toshiaki; Katoh, Yoshio; Imahashi, Satoshi; Seto, Koichi; and Tanaka, Shinichi, 4,699,859, Cl. 430-18.000.

Seto, Makoto: *See*—
Todoroki, Yukio; Seto, Makoto; Yanagihara, Kimihiro; and Yano, Sadanari, 4,651,078, Cl. 318-798.000.

Seto, Takashi: *See*—
Ohdake, Eishu; Oikawa, Tomohiro; Shimizu, Kenichi; Seto, Takashi; Ishikawa, Masahiro; Suzuki, Shigeru; and Tagoku, Izumi, 4,640,611, Cl. 355-77.000.

Seto, Takatoshi: *See*—
Imanari, Makoto; Iwane, Hiroshi; Kuzira, Katsufumi; and Seto, Takatoshi, 4,659,841, Cl. 548-508.000.

Seto, Toshio, to Ricoh Company, Ltd. Facsimile apparatus. 4,663,671, 5-5-87, Cl. 358-260.000.

Seto, Yasuhiro, to Fuji Photo Film Co., Ltd. Methods and apparatus for discriminating between the front and back surfaces of films. 4,645,351, 2-24-87, Cl. 356-443.000.

Seto, Yoshiko: *See*—
Fukushima, Koji; Seto, Yoshiko; Kawada, Kazuhiro; Toi, Koji; and Kumashiro, Izumi, 4,714,713, Cl. 514-563.000.
Toyoshima, Shigeshi; Seto, Yoshiko; Fukushima, Koji; and Kumashiro, Izumi, 4,650,785, Cl. 514-3.000.
Toyoshima, Shigeshi; Seto, Yoshiko; Fukushima, Koji; and Kumashiro, Izumi, 4,670,584, Cl. 562-449.000.

Seto, Youichi; Homma, Koichi; Komura, Fuminobu; Yamagata, Shimbu; Kubo, Yutaka; and Mizuno, Hirotaka, to Hitachi, Ltd. Image correction processing method and apparatus. 4,682,300, 7-21-87, Cl. 364-571.000.

Seto, Youichi; Homma, Koichi; Komura, Fuminobu; and Ota, Hideo, to Hitachi, Ltd. Image correction processing method. 4,695,964, 9-22-87, Cl. 364-518.000.

Seto, Youji: *See*—
Kasuda, Takashi; and Seto, Youji, 4,674,426, Cl. 112-313.000.

Setoguchi, Yoichi: *See*—
Muraoka, Kenichi; Setoguchi, Yoichi; Kawase, Tadamasa; Kawata, Hiroitsu; Komatsu, Hisamoto; and Uchida, Makoto, 4,707,376, Cl. 426-658.000.

Setoguti, Syohati; Nakatake, Yoshiteru; Uehara, Mitsuru; and Kudou, Masayuki, to Honda Giken Kogyo Kabushiki Kaisha; and Honda Manufacturing Co., Ltd. Fuse circuit unit for combination with an electromagnetic switch. 4,692,835, 9-8-87, Cl. 361-104.000.

Seton Company: *See*—
Edenbaum, Martin I.; and Rybalka, Borys, 4,655,210, Cl. 128-156.000.
Edenbaum, Martin I.; and Rybalka, Borys, 4,675,232, Cl. 428-317.300.
Orr, Robert B.; and Chicosky, Leon, Jr., 4,690,953, Cl. 521-65.000.

Seton Products Limited: *See*—
Coplans, Carl W., 4,681,113, Cl. 450-134.000.
Lundy, Roy, 4,674,489, Cl. 128-160.000.

Setoyama, Eiji; Arimatsu, Keiji; and Ohshita, Youichi, to Hitachi, Ltd. Sputtering apparatus. 4,673,482, 6-16-87, Cl. 204-298.000.

Setoyama, Mikio: *See*—
Sato, Kanichi; Setoyama, Mikio; Kiguchi, Shoji; and Tanaka, Toshio, 4,638,845, Cl. 164-1.000.

Setoyama, Youichi, to NEC Corporation. Driving device for a thermal element. 4,673,952, 6-16-87, Cl. 346-76.0PH.

Setra Systems, Inc.: *See*—
Lee, Shih-Ying, 4,649,759, Cl. 73-862.640.

Setsuie, Takashi; Otani, Takeji; and Kobayashi, Tadao, to Mitsubishi Rayon Co., Ltd. Process for producing acrylonitrile-based precursors for carbon fibers. 4,661,572, 4-28-87, Cl. 526-229.000.

Setsuie, Takashi; Otani, Takeji; and Yoshida, Kanji, to Mitsubishi Rayon Co., Ltd. Method for producing acrylic fiber precursors. 4,695,415, 9-22-87, Cl. 264-29.200.

Setsune, Kentaro: *See*—
Kawaguchi, Takao; Adachi, Hideaki; Setsune, Kentaro; Ohji, Kenzo; and Wasa, Kiyotaka, 4,715,680, Cl. 350-96.340.

Settanni, Richard: *See*—
Kahl, William; and Settanni, Richard, 4,703,171, Cl. 250-221.000.

Sette, Paul R., to Pitney Bowes Inc. Rotary value selector device. 4,649,814, 3-17-87, Cl. 101-110.000.

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Shacklett, James H., Jr. Information folder construction. 4,660,856, 4-28-87, Cl. 281-5.000.

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Rice, Roy W.; Kahn, Manfred; and Shadwell, Damian E., 4,683,161, Cl. 428-178.000.

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Shafer, David R., to Perkin-Elmer Corporation, The. Ring field projection system. 4,711,535, 12-8-87, Cl. 350-442.000.

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Walker, Ronald; Shafer, Donald A.; and Yeo, Clarence, 4,647,354, Cl. 204-212.000.

Shafer, James E.: *See*—
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Shafer, Jimmie G., to Mobay Corporation. Low viscosity oil based pesticide compositions. 4,698,362, 10-6-87, Cl. 514-490.000.

Shafer, John C., to Baxter Travenol Laboratories, Inc. Sample identification system. 4,678,894, 7-7-87, Cl. 235-375.000.

Shafer, Paul H.: *See*—
Carlson, William H., Jr.; and Shafer, Paul H., 4,646,238, Cl. 364-403.000.

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Shafer, Steve: *See*—
Van Alstine, James M.; Harris, J. Milton; Shafer, Steve; Snyder, Robert S.; and Herren, Blair, 4,690,749, Cl. 204-299.00R.

Shafer Valve Company, The: *See*—
Kaiser, Willard D.; Koenig, Mark J.; and LeBlanc, William K., 4,633,702, Cl. 73-9.000.

Shaff, Gerald, to Echlin, Inc., Catalytic converter for exhaust gases. 4,682,470, 7-28-87, Cl. 60-299.000.

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Shaffer, David T.: *See*—
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Galloway, Michael D.; Rose, William H.; and Shaffer, David T., 4,675,989, Cl. 29-622.000.
Galloway, Michael D.; and Shaffer, David T., 4,689,597, Cl. 337-186.000.
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Gingerich, David J.; Granitz, Richard F.; Rose, William H.; and Shaffer, David T., 4,673,837, Cl. 310-239.000.

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Shaffer, Donald L. Locking means for fireplace screen. 4,694,819, 9-22-87, Cl. 126-140.000.

Shaffer, Donald U. Tubing joint for corrosion protection. 4,688,828, 8-25-87, Cl. 285-45.000.

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Shaffer, James: *See*—
Distin, Robert; and Shaffer, James, 4,643,047, Cl. 74-804.000.

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Keyes, Marion A., IV; and Shaffer, Jeremiah J., 4,697,980, Cl. 415-1.000.

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Shaffer, John W., to GTE Products Corporation. Stabilized silver compound switch. 4,661,058, 4-28-87, Cl. 431-359.000.

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Kling, Michael R.; and Shaffer, John W., 4,646,049, Cl. 337-27.000.

Shaffer, Karl: *See*—
Sibley, Howard W.; and Shaffer, Karl, 4,649,711, Cl. 62-129.000.

Shaffer, Mary E.: *See*—
Kimmel, Edward R.; Shaffer, Mary E.; Pinkowski, Thomas R.; and Harris, Geoffrey L., 4,664,899, Cl. 423-440.000.

Shaffer, Michael D.: *See*—
Gockley, Glenn E.; and Shaffer, Michael D., 4,660,611, Cl. 152-243.000.

Shaffer, Ralph; and Trentel, Susan, to Those Characters From Cleveland, Inc. Maze puzzle. 4,674,749, 6-23-87, Cl. 273-153.00R.

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Spiegelman, Stanley R.; Miller, Phillip E.; and Shaffer, Robert, 4,708,324, Cl. 266-87.000.

Shaffer, Robert L.: *See*—
Wallace, Joseph E.; and Shaffer, Robert L., 4,706,556, Cl. 99-330.000.

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Shaffner, Richard F. Standing toothpaste dispenser. 4,635,821, 1-13-87, Cl. 222-80.000.

Shaffstall, Maurice. Adjustable roof scaffold jack. 4,676,341, 6-30-87, Cl. 182-45.000.

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Shafritz, David A.: *See—*
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Shafto, Keith. Clamping and holding tool. 4,647,027, 3-3-87, Cl. 269-100.000.

Shaginian, Albert S.; Pevnev, Anatoly A.; Asan-Dzhalalov, Alexei G.; Androsenko, Alexandr P.; Palkin, Leonid N.; and Klimovich, Elena I., to Spetsialnoe Konstruktorskoe Bjuro Seismicheskoi Tekhniki. Well tubing handling apparatus. 4,650,235, 3-17-87, Cl. 294-88.000.

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Shah, Arvind: *See—*
Max, Jean-Joseph; and Shah, Arvind, 4,683,450, Cl. 333-202.000.

Shah, Ashok H., to Du Pont de Nemours, E. I., and Company. Apparatus for making nonwoven sheet. 4,666,395, 5-19-87, Cl. 425-377.000.

Shah, Ashwin H., to Texas Instruments Incorporated. SRAM with constant pulse width. 4,685,087, 8-4-87, Cl. 365-227.000.

Shah, Ashwin H.: *See—*
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Shah, Ashwin N.; and DeMay, Roland, to Mobil Oil Corporation. Mold for producing a plate. 4,705,471, 11-10-87, Cl. 425-195.000.

Shah, Dhirajlal C.: *See—*
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Shah, Dhiren N.; Hammer, Gregory V.; and Domet, Jack, to Merrell Dow Pharmaceuticals Inc. Sucrose encrusted methyl cellulose particles for use in bulk laxative compositions. 4,671,823, 6-9-87, Cl. 106-197.100.

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Shah, Dilipkumar N. Rubber-modified epoxy adhesives. 4,707,518, 11-17-87, Cl. 525-122.000.

Shah, Dipika R.: *See—*
Gooray, Arthur M.; Heeks, George J.; Reale, Louis; and Shah, Dipika R., 4,680,040, Cl. 55-387.000.

Shah, Divyesh P.: *See—*
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Shah, Gopal: *See—*
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Shah, Harshad M.; Hill, Ronald C.; and Lux, Arthur J., to Strippit/Di-Acro - Houdaille, Inc. Rotary punch and die holders for turret punches. 4,658,688, 4-21-87, Cl. 83-552.000.

Shah, Hasmukh: *See—*
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Shah, Hemant H.: *See—*
Cellier, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 4,687,605, Cl. 264-0.500.

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Shah, Madhukant A.: *See—*
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Shah, Mahendra, to Schering Corporation. Sustained release dosage form. 4,713,237, 12-15-87, Cl. 424-78.000.

Shah, Manoj R.; and Lenz, Henry G., to General Electric Company. Acyclic generator with liquid metal current collectors having circulating current barriers. 4,712,033, 12-8-87, Cl. 310-178.000.

Shah, Manoj R.; Lenz, Henry G.; and Bird, William L., Jr, to General Electric Company. Magnetic field compensated liquid metal current collector for acyclic generator. 4,716,328, 12-29-87, Cl. 310-178.000.

Shah, Nehal M.: *See—*
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Bailey, Thomas F.; and Shah, Nehal M., 4,660,863, Cl. 285-145.000.

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Shah, Rasik C.: *See—*
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Shah, Shrenik K.: *See—*
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Shah, Shrenik S.: *See—*
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Shah, Tushar K.; and Selcukoglu, Yuksel A., to CBI Industries, Inc. Multi-stage freeze concentrating process and apparatus. 4,666,484, 5-19-87, Cl. 62-532.000.

Shahani, Goutam H.: *See—*
Roberts, George W.; Hansel, James G.; and Shahani, Goutam H., 4,690,215, Cl. 166-261.000.

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Shahin, Elias A., to Atlantic Richfield Company. Plant regeneration from protoplasts. 4,634,674, 1-6-87, Cl. 435-240.000.

Shahnarian, Albert: *See—*
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Shai, Yechiel: *See—*
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Shaikh, Mujahid L.: *See—*
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Shain, Albert L., to Du Pont de Nemours, E. I., and Company. Low smoke generating, high char forming, flame retardant thermoplastic multi-block copolyesters. 4,708,975, 11-24-87, Cl. 523-216.000.

Shain, Stephen A.: *See—*
Blytas, George C.; and Shain, Stephen A., 4,665,240, Cl. 568-847.000.

Shaine, William L., to SPM Manufacturing Corporation. Method of making pages for photo albums and pages thereby formed. 4,702,026, 10-27-87, Cl. 40-159.000.

Shaiu, Fuei-Tzong. Recovering apparatus for doors and the like. 4,646,471, 3-3-87, Cl. 49-231.000.

Shaka, Athan J., to Varian Associates, Inc. Spatially selective nuclear magnetic resonance pulse sequences. 4,710,718, 12-1-87, Cl. 324-309.000.

Shakalis, Paul. Electronic fluid temperature flow control system. 4,696,428, 9-29-87, Cl. 236-12.120.

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Shakun, Wallace, to Omnimax Energy Corporation. Thermoelectric generator using variable geometry with support pedestals of dissimilar materials than the basic thermoelectric semi-conductor elements. 4,640,977, 2-3-87, Cl. 136-211.000.

Shalaby, Shalaby W.; and Jamiolkowski, Dennis D., to Ethicon, Inc. Radiation sterilizable absorbable polymeric materials and methods for manufacturing the same. 4,689,424, 8-25-87, Cl. 560-061.000.

Shalaby, Shalaby W.: *See—*
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Jamiolkowski, Dennis D.; and Shalaby, Shalaby W., 4,700,704, Cl. 128-335.500.
Koelmel, Donald F.; Jamiolkowski, Dennis D.; Shalaby, Shalaby W.; and Bezwada, Rao S., 4,649,921, Cl. 128-335.500.

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Shaler, David: *See—*
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Boxman, Raymond L.; Goldsmith, Shmuel; Brosh, Nissan; Shalev, Shaul; and Yaloz, Hanan, 4,645,895, Cl. 219-76.130.

Shalit, Herbert S.: *See—*
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Shallenberger, John M.; and Ferlan, Stephen J., to Westinghouse Electric Corp. Locking tube removal fixture and method in a reconstitutable fuel assembly. 4,638,543, 1-27-87, Cl. 29-426.500.

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Shallenberger, John M.; and Ferlan, Stephen J., to Westinghouse Electric Corp. Top nozzle removal and replacement fixture and method in a reconstitutable fuel assembly. 4,664,875, 5-12-87, Cl. 376-261.000.
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Shallenberger, John M.; and Ferlan, Stephen J., to Westinghouse Electric Corp. Fixture and method for rectifying damaged guide thimble insert sleeves in a reconstitutable fuel assembly. 4,688,416, 8-25-87, Cl. 72-367.000.
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Shambroom, John R.; and Sliski, Alan P., to Control Data Corporation. Capacitance height gage applied in reticle position detection system for electron beam lithography apparatus. 4,686,531, 8-11-87, Cl. 340-870.370.
Shames, George H.; and Torgeson, William L., to University of Pittsburgh. Vocal tactile feedback method and associated apparatus. 4,685,448, 8-11-87, Cl. 128-1.00R.
Shames, Harold: *See*—
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Shami, Elie G., to E.I. Du Pont de Nemours and Company. Substituted benzoate ester prodrug derivatives of 3-hydroxymorphinans, which are analgesics or narcotic antagonists. 4,668,685, 5-26-87, Cl. 514-279.000.
Shamie, Louis. Mattress support for crib. 4,639,956, 2-3-87, Cl. 5-93.00R.
Shamie, Louis. Foldable playpen frame. 4,703,525, 11-3-87, Cl. 5-99.00R.
Shamie, Louis. Double action crib drop side lock and mattress support. 4,706,312, 11-17-87, Cl. 5-93.00R.
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Shamos, Desmond E., to Desray, Inc. Percussing chiropractic device having adjustable spring force. 4,669,454, 6-2-87, Cl. 128-69.000.
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Shan, Tiejun J.; and Kailath, Thomas, to Leland Stanford Junior University, The Board of Trustees of the. Adaptive signal processing array with suppression of coherent and non-coherent interferring signals. 4,641,259, 2-3-87, Cl. 364-724.000.
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Shanghai Institute of Organic Chemistry, Academia Sinica: *See*—
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Shank, Gordon W.; Bristol, Lloyd R.; Eby, David H.; and Kleck, Jeffrey A., to Tektronix, Inc. Method and apparatus for controlling oscilloscope displayed menu selection. 4,644,337, 2-17-87, Cl. 340-709.000.
Shank, Gordon W.; and Bristol, Lloyd R., to Tektronix, Inc. Method and apparatus for adjusting displayed oscilloscope parameters. 4,647,915, 3-3-87, Cl. 340-709.000.
Shank, Gordon W.; and Eason, Earl P., to Tektronix, Inc. Automatic pulse display. 4,716,345, 12-29-87, Cl. 315-392.000.
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Shank, Jeffrey B.; Swanson, Steve E.; and Opdahl, Barry J., to GTE Products Corporation. Fiber optic connector. 4,691,985, 9-8-87, Cl. 350-96.180.
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Shanklin, James R., Jr., to A. H. Robins Company, Incorporated. N-(amino)alkyl)-1-pyrrolidine, 1-piperidine and 1-homopiperidinecarboxamides (and thiocarboxamides) with sulfur linked substitution in the 2, 3 or 4-positions. 4,642,348, 2-10-87, Cl. 546-216.000.
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Shanks, Ernest R.; and Carnes, Gerald L. Bumper guide assembly for elevator doors. 4,693,340, 9-15-87, Cl. 187-52.00R.
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Shapiro, Allan E. Trip map and toll ticket holder. 4,671,482, 6-9-87, Cl. 248-225.200.
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Shapiro, L. Dennis; and Aseltine, Richard G., Jr., to Lifeline Systems, Inc. Telephone care system with telephone line-checking. 4,686,697, 8-11-87, Cl. 379-38.000.
Shapiro, Leonard, to Pennwalt Corporation. Rinsing on a solid bowl centrifuge. 4,654,022, 3-31-87, Cl. 494-29.000.
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Shapiro, Rafael, to Du Pont de Nemours, E. I., and Company. Herbicidal thiophenesulfonamides. 4,684,393, 8-4-87, Cl. 71-90.000.
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Sharp, Bruce R. Split fittings and pipeline systems using same. 4,667,505, 5-26-87, Cl. 73-40.50R.
Sharp, Bruce R. Total containment storage tank system. 4,685,327, 8-11-87, Cl. 73-49.200.
Sharp, Bruce R. Storage tanks having secondary containment means. 4,696,186, 9-29-87, Cl. 73-49.200.
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Sharp, Daryl. Variable molecular separator. 4,654,052, 3-31-87, Cl. 55-67.000.
Sharp, Daryl. Method and device for vacuum chromatography. 4,713,963, 12-22-87, Cl. 73-23.100.
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Ishii, Hiroshi; Nakai, Syunzi; and Mizumoto, Yukihiro, 4,695,847, Cl. 346-1.100.
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Itoh, Yoshiro; Oogita, Yoshinori; Komaki, Shigeki; and Nakao, Kazuhiro, 4,666,254, Cl. 350-334.000.
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Kamuro, Setsufumi, 4,651,031, Cl. 307-449.000.
Kamuro, Setsufumi; and Okada, Mikiro, 4,709,168, Cl. 307-448.000.
Kaneiwa, Shinji; Takiguchi, Haruhisa; Yoshida, Toshihiko; and Matsui, Sadayoshi, 4,692,206, Cl. 156-649.000.
Kato, Tomio, 4,688,082, Cl. 358-21.00R.
Katoh, Hiroyuki, 4,713,511, Cl. 219-10.55D.
Katoh, Itsurou, 4,682,879, Cl. 355-3.000.
Katoh, Kiroyuki, 4,672,160, Cl. 219-10.55C.
Katoh, Tutomu; and Yamamoto, Hiranaga, 4,696,561, Cl. 355-3.0FU.
Katsura, Hiroo; Yao, Keiji; and Koyama, Kazuya, 4,658,270, Cl. 346-76.0PH.
Kawano, Tadaaki, 4,666,289, Cl. 355-14.00R.
Kimura, Shinichi, 4,713,522, Cl. 219-202.000.
Kira, Toru; Miyauchi, Teiichi; and Yoshikawa, Mitsuhiko, 4,639,806, Cl. 360-113.000.
Kishi, Kohhei; Koden, Mitsuhiro; and Funada, Fumiaki, 4,684,435, Cl. 156-632.000.
Kita, Ryusuke; Nishigaki, Satoshi; and Tsuchimoto, Shuhei, 4,701,997, Cl. 437-5.000.
Kobayashi, Makoto, 4,688,565, Cl. 128-204.190.
Koizumi, Satoru; Teshima, Daisuke; and Katayama, Yoshio, 4,698,704, Cl. 360-74.100.
Kojima, Yoshimi; Narikawa, Shiro; Hayakawa, Takashi; Nojima, Hideo; Imada, Eiji; Matsuyama, Toshiro; and Ehara, Shaw, 4,666,816, Cl. 430-128.900.
Komaki, Shigeki, 4,640,994, Cl. 200-5.00A.
Komaki, Shigeki, 4,704,003, Cl. 350-344.000.
Kunikawa, Norihide, 4,636,697, Cl. 318-436.000.
Kunikawa, Norihide; Kondo, Tetsuya; Ohba, Yasumasa; and Matsuoka, Michihiro, 4,647,191, Cl. 355-56.000.
Kunikawa, Norihide; Kondo, Tetsuya; Ohba, Yasumasa; and Matsuoka, Michihiro, 4,693,595, Cl. 355-77.000.
Kuranishi, Masaaki; and Aiba, Masahiko, 4,700,202, Cl. 346-140.00R.
Maegawa, Toshiyuki; and Tominaga, Satoshi, 4,647,911, Cl. 340-365.00R.
Maehara, Sigeharu, 4,690,545, Cl. 355-51.000.
Maezawa, Tokio; and Furukawa, Koichi, 4,647,239, Cl. 400-708.000.
Maruyama, Toshio; Shibuya, Noriaki; and Nakata, Yukihiko, 4,714,868, Cl. 320-5.000.
Masaki, Yoshifumi, 4,706,248, Cl. 371-3.000.
Masuda, Shinichi, 4,709,387, Cl. 379-354.000.
Masuzawa, Sigeaki; Yoshida, Hideo; and Saiji, Mituhiro, 4,700,393, Cl. 381-51.000.
Masuzawa, Sigeaki; Shibata, Shinya; Miyazaki, Hiroshi; and Iwase, Tetsuo, 4,716,591, Cl. 381-51.000.
Matsuda, Hideo; and Hiraoka, Shinitiro, 4,634,113, Cl. 271-259.000.
Matsuda, Kumehiko; and Komai, Kensaku, 4,638,435, Cl. 364-405.000.
Matsuda, Kumehiko; and Komai, Kensaku, 4,691,283, Cl. 364-405.000.
Matsui, Hirotoshi; Tsumura, Takeo; and Sakanaka, Eiichi, 4,687,356, Cl. 400-144.200.
Matsui, Sadayoshi; Taneya, Mototaka; Takiguchi, Haruhisa; and Kaneiwa, Shinji, 4,679,200, Cl. 372-45.000.
Matsui, Yoshimitsu; Horiguchi, Michiyuki; and Ohashi, Masakazu, 4,672,543, Cl. 364-200.000.
Matsumoto, Kouichi, 4,685,798, Cl. 355-15.000.
Matsuura, Hirokazu, 4,639,120, Cl. 355-14.00R.
Matsuura, Syuuji, 4,668,882, Cl. 307-540.000.
Migita, Haruyoshi; and Yoshiura, Shoichiro, 4,634,266, Cl. 355-55.000.
Mimoto, Toshio, 4,651,028, Cl. 307-296.00A.
Mimoto, Toshio, 4,651,030, Cl. 307-449.000.
Mimoto, Toshio, 4,677,313, Cl. 307-270.000.
Mimoto, Toshio; and Sakiyama, Keizo, 4,695,745, Cl. 307-297.000.
Mimoto, Toshio; and Ota, Yoshiji, 4,715,015, Cl. 365-210.000.
Mimoto, Toshio, 4,716,303, Cl. 307-264.000.
Minakata, Ryoji; Kira, Toru; and Yoshikawa, Mitsuhiko, 4,699,702, Cl. 204-192.200.
Minakuchi, Yusuke, 4,675,593, Cl. 323-314.000.

Mitarai, Akira; and Kubota, Kunio, 4,688,173, Cl. 364-405.000.
Miwa, Yoshihisa, 4,634,263, Cl. 355-14.0SH.
Miyaji, Takashi, 4,710,018, Cl. 355-8.000.
Miyake, Kazunari, 4,682,313, Cl. 369-39.000.
Miyako, Shunichi; and Horiuchi, Hiroyuki, 4,664,544, Cl. 400-605.000.
Miyatake, Shigehiro, 4,672,455, Cl. 358-213.310.
Miyatake, Shigehiro, 4,697,200, Cl. 357-24.000.
Miyoshi, Shuji; and Hijikigawa, Masaya, 4,635,027, Cl. 338-34.000.
Miyoshi, Shuji; and Hijikigawa, Masaya, 4,682,502, Cl. 73-723.000.
Mizoguchi, Saburo, 4,640,804, Cl. 261-81.000.
Mizoguchi, Saburo, 4,644,790, Cl. 73-293.000.
Mizoguchi, Saburo, 4,708,826, Cl. 261-30.000.
Morino, Masuaki; Fujikawa, Yoshiyuki; Haneda, Isamu; and Myoi, Tetsuo, 4,636,970, Cl. 364-706.000.
Morino, Taisuke, 4,676,328, Cl. 177-144.000.
Morita, Tatsuo; Nakajima, Yoshiharu; and Nakajima, Shigeo, 4,654,229, Cl. 427-180.000.
Nagano, Fumikazu, 4,642,679, Cl. 358-75.000.
Nagano, Fumikazu, 4,654,723, Cl. 358-293.000.
Nagano, Fumikazu; and Urakawa, Toshio, 4,658,289, Cl. 358-75.000.
Nagano, Fumikazu, 4,658,303, Cl. 358-294.000.
Nagano, Fumikazu, 4,663,566, Cl. 315-97.000.
Nagano, Fumikazu, 4,670,779, Cl. 358-75.000.
Nagano, Fumikazu, 4,687,919, Cl. 250-205.000.
Nagano, Fumikazu, 4,691,228, Cl. 358-75.000.
Nagano, Fumikazu, 4,707,706, Cl. 346-76.0PH.
Nakakura, Yukinori; and Kato, Nobuyuki, 4,695,479, Cl. 437-228.000.
Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, 4,677,036, Cl. 428-694.000.
Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, 4,702,794, Cl. 156-643.000.
Nakamura, Tutomu; Shiraishi, Masaru; and Nawaki, Masaru, 4,670,765, Cl. 357-30.000.
Nakamura, Yashuhide; and Yamamura, Shigeyuki, 4,635,196, Cl. 364-405.000.
Nakanishi, Takao, 4,635,610, Cl. 126-21.00A.
Nakanishi, Takao, 4,705,928, Cl. 219-10.55B.
Nakanishi, Yasuhiro; and Kawai, Shoichi, 4,695,976, Cl. 364-900.000.
Nakanishi, Yasushi; and Taniguchi, Akihiko, 4,687,320, Cl. 355-14.00R.
Nakao, Motokazu, 4,692,795, Cl. 358-75.000.
Nakao, Tadashi; and Sawai, Toshitsugu, 4,707,600, Cl. 250-227.000.
Nakatani, Hiroshi; Yoshida, Hirokazu; and Yamamura, Keiji, 4,710,680, Cl. 315-169.400.
Nawaki, Masaru, 4,686,709, Cl. 455-613.000.
Nishigaki, Satoshi; Itoh, Masataka; and Katoh, Shohichi, 4,644,406, Cl. 358-213.000.
Nishijima, Masaru, 4,681,423, Cl. 355-14.00R.
Nishimura, Kosuke, 4,646,307, Cl. 371-53.000.
Nishimura, Kosuke, 4,661,659, Cl. 379-61.000.
Nishimura, Toshio, 4,691,118, Cl. 307-66.000.
Nishimura, Toshio, 4,701,693, Cl. 323-303.000.
Nukushina, Etsuzi; Tagawa, Takao; and Nakai, Yoshiyuki, 4,669,861, Cl. 355-14.0TR.
Oda, Koichi; Hatta, Koichi; and Sumitani, Toshihiko, 4,695,983, Cl. 364-709.000.
Ogura, Takashi; Tanaka, Koichi; Taniguchi, Koji; Yoshida, Masaru; and Mikami, Akiyoshi, 4,707,419, Cl. 428-690.000.
Ohashi, Kunio; Tonegawa, Tadashi; Nagata, Shoichi; and Nakamura, Masatsugu, 4,683,186, Cl. 430-84.000.
Ohgami, Katsuya, 4,700,182, Cl. 340-750.000.
Ohouchi, Mituo, 4,650,970, Cl. 219-506.000.
Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, 4,634,617, Cl. 428-65.000.
Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, 4,658,393, Cl. 369-290.000.
Ohta, Kenji; Deguchi, Toshihisa; and Takahashi, Akira, 4,677,601, Cl. 369-13.000.
Ohta, Tomozo; and Nakano, Hiroshi, 4,654,888, Cl. 455-328.000.
Ohta, Tomozo; Higashi, Kazutada; and Yamamoto, Hirohiko, 4,712,111, Cl. 343-779.000.
Oka, Yukihiko; and Morimoto, Toyohiko, 4,696,592, Cl. 400-636.000.
Okazaki, Masanori, 4,709,405, Cl. 455-151.000.
Okibayashi, Katsushi; Itoh, Masataka; and Katoh, Shohichi, 4,641,359, Cl. 382-68.000.
Okibayashi, Katsushi; and Katoh, Shohichi, 4,650,985, Cl. 250-211.00R.
Okuda, Masakiyo; Ohnishi, Kazuyuki; and Mitsuyama, Akira, 4,639,125, Cl. 355-23.000.
Okuda, Masakiyo; and Ohnishi, Kazuyuki, 4,655,582, Cl. 355-14.00R.
Okuda, Masakiyo; and Ohnishi, Kazuyuki, 4,708,461, Cl. 355-14.00R.
Oya, Yuichiro, 4,638,136, Cl. 219-10.55C.
Saka, Masakazu, 4,656,470, Cl. 340-805.000.
Sakoda, Yasuhiro, 4,700,035, Cl. 219-10.55D.
Sannomiya, Hitoshi; and Hijikigawa, Masaya, 4,698,658, Cl. 357-30.000.
Sato, Ryoichi; and Mimoto, Toshio, 4,641,081, Cl. 323-313.000.
Satoh, Masaharu; and Hashimoto, Sadakatsu, 4,706,221, Cl. 365-222.000.
Sekimoto, Yoshihiro; Terashima, Shigeo; Kumata, Kiyoshi; and Tanaka, Toshiyuki, 4,678,276, Cl. 350-247.000.
Sekimoto, Yoshihiro; Terashima, Shigeo; and Kojima, Kunio, 4,696,566, Cl. 350-255.000.
Senoo, Yoji, 4,638,989, Cl. 271-227.000.
Shima, Hideaki, 4,665,432, Cl. 358-166.000.
Shimada, Mitsuhiro; Matsumoto, Junichiro; Nonaka, Susumu; and Sayama, Haruo, 4,710,041, Cl. 400-120.000.
Shin, Yasuo; and Tanabe, Takeshi, 4,691,186, Cl. 338-34.000.
Shiomi, Masuo; and Aramaki, Takashi, 4,703,317, Cl. 340-723.000.
Shota, Minoru, 4,668,937, Cl. 340-384.00R.
Suzuki, Akihisa, 4,635,750, Cl. 381-194.000.
Suzuki, Takashi, 4,691,713, Cl. 128-736.000.
Tada, Mitsuro, 4,634,265, Cl. 355-3.0SH.
Taguchi, Toshimichi, 4,639,559, Cl. 200-5.00A.
Takafuji, Yutaka; Kato, Hiroaki; and Funada, Fumiaki, 4,654,959, Cl. 29-571.000.
Takahashi, Akira; Murakami, Yoshiteru; Hirokane, Junji; Katayama, Hiroyuki; and Ohta, Kenji, 4,695,514, Cl. 428-432.000.
Takahashi, Kozo, 4,693,461, Cl. 271-176.000.
Takai, Yasuhiro; Morimoto, Kenichi; Yoshida, Shigekazu; and Tagawa, Takao, 4,636,063, Cl. 355-68.000.
Takakura, Masaki; Noguchi, Yoji; Yamane, Yasukuni; and Kako, Noritoshi, 4,695,966, Cl. 364-521.000.
Takamatsu, Toshiaki; Kuwagaki, Hiroshi; Minezaki, Shigehiro; Yamamoto, Kunihiko; Nakatani, Hiroshi; and Kawaguchi, Hisao, 4,690,510, Cl. 350-334.000.
Takazume, Masafumi; and Ishikawa, Kazuhiko, 4,707,588, Cl. 219-400.000.
Takeda, Makoto; Nonomura, Keisaku; and Funada, Fumiaki, 4,649,383, Cl. 340-805.000.
Takeda, Makoto; Yamamoto, Kunihiko; Matsuhashi, Nobuaki; Kimura, Naofumi; Hamada, Hiroshi; and Take, Hiroshi, 4,651,148, Cl. 340-805.000.
Takeda, Makoto; Yamamoto, Kunihiko; and Take, Hiroshi, 4,651,149, Cl. 340-805.000.
Takeda, Makoto; Yamamoto, Kunihiko; Matsubayashi, Nobuaki; and Take, Hiroshi, 4,694,349, Cl. 358-241.000.
Takeda, Makoto; Nonomura, Keisaku; and Yamamoto, Kunihiko, 4,710,768, Cl. 340-805.000.
Takeda, Yoshio, 4,680,226, Cl. 428-327.000.
Takiguchi, Haruhisa; Kaneiwa, Shinji; Matsui, Sadayoshi; and Taneya, Mototaka, 4,658,403, Cl. 372-96.000.
Takimoto, Kazutoshi; Matsumi, Takatomo; and Kikuchi, Koji, 4,679,414, Cl. 68-12.00R.
Tanaka, Hironori; Matsumoto, Masafumi; and Kotani, Matahira, 4,696,462, Cl. 271-10.000.
Tanaka, Toyoki; and Itoh, Ikuo, 4,634,258, Cl. 355-4.000.
Taneya, Mototaka; Matsui, Sadayoshi; and Matsumoto, Mitsuhiro, 4,716,129, Cl. 437-96.000.
Tani, Zempei; Hachimura, Kenji; and Kawai, Noboru, 4,689,540, Cl. 318-608.000.
Tani, Zempei; Masuda, Yoshifumi; and Miyake, Toshihide, 4,692,025, Cl. 356-45.000.
Tanigawa, Tohru, 4,655,600, Cl. 356-401.000.
Taniguchi, Akihiko; Fukunaga, Takahiro; and Shimizu, Eiichi, 4,682,884, Cl. 355-51.000.
Taniguchi, Akihiko; Migita, Haruyoshi; Nakanishi, Yasushi; and Kato, Itsuro, 4,688,929, Cl. 355-14.00R.
Taniguchi, Koji; Tanaka, Koichi; and Ogura, Takashi, 4,672,266, Cl. 313-509.000.
Taniguchi, Koki; Yamaguchi, Shigeri; and Nakayama, Keiji, 4,639,062, Cl. 339-59.00M.
Taniguchi, Koki, 4,643,498, Cl. 339-17.00M.
Tanimoto, Akira; and Masuzawa, Sigeaki, 4,658,374, Cl. 364-900.000.
Terada, Hiroshi, 4,675,801, Cl. 363-143.000.
Tonegawa, Tadashi, 4,643,559, Cl. 355-3.00R.
Tsuda, Tatsuya; and Nogi, Masako, 4,692,597, Cl. 219-492.000.
Tsugei, Shinji; and Iguchi, Shigeki, 4,656,317, Cl. 178-18.000.
Tsugei, Shinji; and Inoue, Tomohiro, 4,696,054, Cl. 455-89.000.
Tsujimoto, Yoshiharu; Kinashi, Hiroshi; Yui, Yuhi; Akiyama, Tadashi; and Irihara, Koichi, 4,654,286, Cl. 430-97.000.
Tsumura, Takeo; Iwai, Hiroji; and Kadoya, Atsushi, 4,708,505, Cl. 400-697.100.
Tsutsui, Akio, 4,684,987, Cl. 358-148.000.
Uda, Kazutaka, 4,682,500, Cl. 73-705.000.
Ueguri, Tomoaki, 4,662,737, Cl. 355-4.000.
Ueno, Atsushi; and Abumi, Takao, 4,639,768, Cl. 358-22.000.
Uratani, Munehiro, 4,684,829, Cl. 307-449.000.
Wada, Yoshihiro, 4,644,481, Cl. 364-557.000.
Washizuka, Isamu, 4,639,725, Cl. 434-308.000.
Washizuka, Isamu, 4,648,070, Cl. 364-900.000.
Washizuka, Isamu; and Oda, Koichi, 4,551,294, Cl. 364-709.000.
Washizuka, Isamu; Morino, Masuaki; and Mashiba, Tamaki, 4,655,551, Cl. 350-334.000.
Washizuka, Isamu; and Kinugawa, Kiyoshi, 4,692,740, Cl. 340-365.00R.
Washizuka, Isamu; Nishimura, Kosuke; and Saiji, Mitsuhiro, 4,701,862, Cl. 364-513.500.
Watanabe, Masanori; and Hijikigawa, Masaya, 4,698,657, Cl. 357-25.000.
Yamada, Yoshikado, 4,655,581, Cl. 355-14.00C.
Yamada, Yoshikado, 4,659,209, Cl. 355-14.00E.
Yamada, Yoshikado, 4,669,856, Cl. 355-3.0DD.
Yamagishi, Toshio, 4,654,645, Cl. 340-635.000.

Yamagishi, Toshio; and Fujiwara, Katsuyoshi, 4,714,941, Cl. 355-8.000.

Yamaguchi, Akira; Kamuro, Setsufumi; and Sakamoto, Jitsuo, 4,672,647, Cl. 377-77.000.

Yamamoto, Osamu; Matsui, Sadayoshi; Takiguchi, Haruhisa; Hayashi, Hiroshi; and Miyauchi, Nobuyuki, 4,655,597, Cl. 356-373.000.

Yamamoto, Osamu; Takiguchi, Haruhisa; and Matsui, Sadayoshi, 4,660,983, Cl. 356-445.000.

Yamamoto, Saburo; Hayashi, Hiroshi; Morimoto, Taiji; and Yano, Seiki, 4,677,633, Cl. 372-45.000.

Yamamoto, Yoshihiro; and Hijikigawa, Masaya, 4,672,148, Cl. 136-258.000.

Yamasaki, Kimihito; and Yoshiura, Shoichiro, 4,696,466, Cl. 271-288.000.

Yanagiuchi, Shigenobu; and Omori, Takuro, 4,642,761, Cl. 364-200.000.

Yano, Seiki; Yamamoto, Saburo; Hayashi, Hiroshi; and Morimoto, Taiji, 4,686,679, Cl. 372-48.000.

Yano, Seiki; Yamamoto, Saburo; Matsui, Sadayoshi; and Taneya, Mototaka, 4,694,461, Cl. 372-50.000.

Yano, Seiki; Yamamoto, Saburo; Takiguchi, Haruhisa; and Kaneiwa, Shinji, 4,712,219, Cl. 372-45.000.

Yasuda, Shigeari; and Kato, Sunao, 4,675,844, Cl. 364-900.000.

Yasuda, Syoichi; Tokuno, Akihira; Futada, Akihiko; Hayashi, Yoshiharu; Kobori, Kiyoshi; and Ishida, Takayoshi, 4,700,220, Cl. 358-44.000.

Yasuda, Syuhei; Ii, Hiroshi; and Sasada, Taizo, 4,700,241, Cl. 360-51.000.

Yoshida, Hideo; and Kunita, Hisao, 4,635,211, Cl. 364-513.500.

Yoshida, Hidetaka; and Haneda, Isamu, 4,667,289, Cl. 364-200.000.

Yoshida, Toshihiko; Takiguchi, Haruhisa; Kaneiwa, Shinji; and Matsui, Sadayoshi, 4,716,570, Cl. 372-45.000.

Yoshimura, Masahiro, 4,701,799, Cl. 358-241.000.

Yoshiura, Shoichiro, 4,666,290, Cl. 355-14.00D.

Yoshiura, Shoichiro; and Ikeda, Haruyoshi, 4,669,863, Cl. 355-14.0SH.

Yoshiura, Syoichiro, 4,714,944, Cl. 355-55.000.

Yuki, Yoshio; and Hara, Takafumi, 4,658,273, Cl. 346-140.00R.

Sharp, Keith W.: *See*—
Watson, Kenneth E.; and Sharp, Keith W., 4,670,164, Cl. 252-8.511.

Sharp, Larry D.; and Theis, Alan T., to Burroughs Corporation. Local power switching control subsystem. 4,663,539, 5-5-87, Cl. 307-38.000.

Sharp, Larry D.: *See*—
Whittaker, Bruce E.; Jeppesen, James H., III; and Sharp, Larry D., 4,677,566, Cl. 364-492.000.

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Sharpe, Murem S.; Bryson, Eugene; Manduley, Flavio; Riordan, Eben M., II; and Flesser, Brian D., to Pitney Bowes, Inc. System for centralized processing of accounting and payment functions. 4,713,761, 12-15-87, Cl. 364-406.000.

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Hayes, Michael E.; Hood, Craig C.; Miller, Ronald E.; and Sharpe, Robert, 4,640,719, Cl. 134-40.000.
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Sharpee, Richard L.: *See*—
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Sharper, Craig A.: *See*—
Angell, Eric H.; Aprille, Thomas J.; Azaret, Juan O.; Fang, Rong-Chin; Lee, Byeong G.; Longwell, Brian C.; Sharper, Craig A.; and Spalink, Jan-Dieter, 4,716,561, Cl. 370-55.000.
Banzi, Frederick J., Jr.; Dugan, Michael J.; and Sharper, Craig A., 4,675,862, Cl. 370-15.000.
Banzi, Frederick J., Jr.; Dugan, Michael J.; Johnson, Randolph W.; Saylor, Douglas D.; and Sharper, Craig A., 4,688,209, Cl. 370-15.000.

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Gutselman, Robert A., 4,674,629, Cl. 206-63.300.

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Smith, Andrea, 4,700,833, Cl. 206-380.000.

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Fulton, Inge G.; Makris, James S.; Nastasi, Victor R.; Scaduto, Anthony F.; and Shartel, Anne C., 4,666,556, Cl. 156-643.000.

Sharyo, Takeru: *See*—
Nagamori, Hiroyuki; Mukai, Takashi; Tsushima, Riku; Kuwamoto, Hiroshi; Iwado, Shuichi; and Sharyo, Takeru, 4,650,595, Cl. 252-32.500.

Shaskan, Paul: *See*—
De Luca, Paul V.; Shaskan, Paul; and Belle-Oudry, Michael, 4,649,456, Cl. 361-119.000.

Shastry, Shambhu K., to GTE Laboratories Incorporated. Method of epitaxially growing gallium arsenide on silicon. 4,699,688, 10-13-87, Cl. 156-606.000.

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Savitsky, Evgeny M.; Goikhman, Mikhail S.; Khudyk, Petr M.; Chepkasov, Valery V.; Sulyagin, Valentin V.; Polyakova, Viktoria P.; Shatinsky, Viktor F.; Gorina, Nelli B.; and Rudkovsky, Evgeny M., 4,654,237, Cl. 427-431.000.

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Gutter, David H.; and Shatto, Walter C., Jr., 4,696,908, Cl. 439-98.000.

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Shaug, Richard P.: *See*—
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Mannherz, Elmer D.; Schmoock, Roy F.; and Shauger, Herbert A., 4,704,907, Cl. 73-861.170.

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Doherty, John A.; Ward, Billy W.; and Shaver, David C., 4,639,301, Cl. 204-192.310.

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Shavit, Henri, to Brogli, Werner, a part interest. Method and apparatus for transforming semirigid blanks into containers. 4,669,253, 6-2-87, Cl. 53-455.000.
Shavlik, Robert J.: *See*—
Rajala, Gregory J.; and Shavlik, Robert J., 4,697,693, Cl. 198-699.000.
Shaw, Benjamin G.: *See*—
Bente, H. Bryan; Herman, Alan C.; Myerson, Joel; Shaw, Benjamin G.; and Stefanski, Andrew, 4,714,545, Cl. 210-101.000.
Shaw, Bryon, to Blue Water Research, Inc. Fishing line release. 4,698,933, 10-13-87, Cl. 43-43.120.
Shaw, Byron, to Blue Water Research, Inc. Downrigger cable accessory. 4,702,033, 10-27-87, Cl. 43-43.120.
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Shaw, Eric D. Expandible and collapsible acoustic guitar. 4,686,882, 8-18-87, Cl. 84-291.000.
Shaw, Fanny L.: *See*—
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Cooley, Edward J.; and Shaw, Franklin D., 4,709,452, Cl. 19-159.00R.
Shaw, Graham: *See*—
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Shaw, Graham C., to Morton Thiokol Inc. Igniting rocket propellants under vacuum conditions. 4,658,578, 4-21-87, Cl. 60-205.000.
Shaw, H. J.: *See*—
Desurvire, Emmanuel; Digonnet, Michel J. F.; and Shaw, H. J., 4,708,421, Cl. 350-96.150.
Shaw, Henri, to N.V. Weefautomaten Picanol. Process and apparatus for inspecting woven fabric during its production on one or more looms. 4,702,283, 10-27-87, Cl. 139-348.000.
Shaw, Herbert J.; and Pavlath, George A., to Leland Stanford Junior University, The Board of Trustees of the. Multimode fiber optic rotation sensor. 4,634,282, 1-6-87, Cl. 356-350.000.
Shaw, Herbert J., to Leland Stanford Junior University, The Board of Trustees of the. Sensor using fiber optic interferometer. 4,634,852, 1-6-87, Cl. 250-227.000.
Shaw, Herbert J.; and Newton, Steven A., to Leland Stanford Junior University, The Board of Trustees of the. High speed pulse train generator. 4,652,079, 3-24-87, Cl. 350-96.150.
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Brooks, Janet L.; Tur, Moshe; Youngquist, Robert C.; Kim, Byoung Y.; Wentworth, Robert H.; Shaw, Herbert J.; and Blotekjaer, Kjell, 4,699,513, Cl. 356-345.000.
Youngquist, Robert C.; Brooks, Janet L.; Fesler, Kenneth A.; Cutler, Cassius C.; and Shaw, Herbert J., 4,697,925, Cl. 356-345.000.
Shaw, Howard H.: *See*—
Kopatz, Nelson E.; Pruyne, Lori S.; and Shaw, Howard H., 4,670,047, Cl. 75-0.50B.
Shaw Industries Ltd.: *See*—
Patell, Farrokh A.; and McConkey, Stephen E., 4,640,312, Cl. 138-109.000.
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Charneski, David M.; and Shaw, James D., 4,675,301, Cl. 436-180.000.
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Shaw, James G.; and Shore, John H., to Baker Oil Tools, Inc. Sealing apparatus. 4,667,737, 5-26-87, Cl. 166-104.000.
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Shaw, James R. Insert for a fuel tank inlet and a method of installing the insert. 4,653,660, 3-31-87, Cl. 220-86.00R.
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Shaw, Jane; and Gale, Robert M., to Alza Corporation. Method for treating ischemic conditions. 4,650,484, 3-17-87, Cl. 604-897.000.
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Shaw, Jane M.: *See*—
Babich, Edward D.; Hatzakis, Michael; Liutkis, John J.; Paraszczak, Juri R.; and Shaw, Jane M., 4,693,960, Cl. 430-323.000.
Hatzakis, Michael; Liutkus, John J.; Paraszczak, Juriy R.; and Shaw, Jane M., 4,678,850, Cl. 526-293.000.
Herd, Harold H.; Jacobowitz, Lawrence; and Shaw, Jane M., 4,665,010, Cl. 430-330.000.
Shaw, Jerry: *See*—
Solitt, Samuel G.; Light, Nathan R.; and Shaw, Jerry, 4,669,729, Cl. 273-138.00A.
Shaw, John H.: *See*—
Ebner, Peter R.; Ebner, Emanual C., Jr.; Shaw, John H.; Miller, John G.; and Gorelick, Donald E., 4,691,987, Cl. 350-96.230.
Shaw, John R., to Mosaid, Inc. Edge programmable timing signal generator. 4,675,546, 6-23-87, Cl. 307-265.000.
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Shaw, Montgomery T.: *See*—
Aubert, James H.; Clough, Roger L.; Curro, John G.; Quintana, Carlos A.; Russick, Edward M.; and Shaw, Montgomery T., 4,673,695, Cl. 521-64.000.
Shaw, Murray: *See*—
Peers, John; Scholz, Tim K.; and Shaw, Murray, 4,689,022, Cl. 434-307.000.
Shaw, Peter; and Coetzee, Jan, to Sentrachem Limited. Depressants for froth flotation. 4,657,669, 4-14-87, Cl. 209-167.000.
Shaw, R. Howard: *See*—
Coad, George L.; Hutchinson, Martin A.; and Shaw, R. Howard, 4,647,266, Cl. 414-225.000.
Shaw, Ray H., to Mining Tools, Inc. Div. of Smith California. Retainer device for drill bit. 4,712,626, 12-15-87, Cl. 175-410.000.
Shaw, Raymond E.: *See*—
Lancaster, Robert L.; and Shaw, Raymond E., 4,678,702, Cl. 428-252.000.
Shaw, Richard F.: *See*—
Fife, Robert M.; Ross, Dennis; and Shaw, Richard F., 4,685,031, Cl. 361-413.000.
Shaw, Richard G.: *See*—
Bahl, Surinder K.; Canterino, Peter J.; and Shaw, Richard G., 4,692,496, Cl. 525-240.000.
Canterino, Peter J.; Dobreski, David V.; and Shaw, Richard G., 4,716,201, Cl. 525-240.000.
Shaw, Richard J. Thermally insulated heated sprue bushing in plastic molding apparatus. 4,666,396, 5-19-87, Cl. 425-549.000.
Shaw, Robert R.; and Gregory, Steven D. Apparatus for raising and supporting a building. 4,673,315, 6-16-87, Cl. 405-230.000.
Shaw, Roger W.: *See*—
Korb, Harold W.; Reed, Claudia P.; and Shaw, Roger W., 4,666,532, Cl. 148-1.500.
Shaw, Sam R.: *See*—
Carroll, Arthur B.; Hough, Stewart E.; Hunter, Paul R.; Carstedt, John K.; Shaw, Sam R.; and Garrett, James E., 4,684,801, Cl. 250-221.000.
Shaw, Stephen K.: *See*—
London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,640,162, Cl. 83-152.000.
London, J. Reid; Bell, Cecil R., Jr.; Edwards, A. Russell; Lathery, Willie M.; Efird, Lee A.; Porter, Richard M.; Shaw, Stephen K.; Costello, Thomas J.; Pike, August A.; Bell, Donald G.; and Setliff, Harold, 4,704,976, Cl. 112-262.200.
Shaw, Timothy P., to Gibson Guitar Corp. Bridge pickup for string instrument. 4,657,114, 4-14-87, Cl. 84-1.160.
Shaw-Walker Company, The: *See*—
Fleming, Philip S.; and Neagle, Richard M., 4,660,887, Cl. 297-445.000.
Hayman, Eric R.; and Penniman, Scott R., 4,684,154, Cl. 282-29.00R.
Nelson, Lowell F.; and Laird, Robert A., 4,685,402, Cl. 109-65.000.
Shaw, Wilfrid G.: *See*—
Dolhyj, Serge R.; Shaw, Wilfrid G.; and Pepera, Marc A., 4,710,484, Cl. 502-208.000.
Paparizos, Christos; Shaw, Wilfrid G.; and Callahan, James L., 4,714,695, Cl. 502-339.000.
Shaweross, Alfred L.; Stevens, Donn E.; and Jones, Robert E., to Bausch & Lomb Incorporated. Apparatus for use in transporting a photogrammetric microscope from a first position to a second position. 4,690,520, 9-1-87, Cl. 350-517.000.
Shawcross, Brian E., to CIBA-GEIGY AG. Exposing frame. 4,690,547, 9-1-87, Cl. 355-72.000.
Shay, Gregory D.; Devona, James E.; and Kail, James E., to DeSoto, Inc. Aqueous latices having improved coating rheology. 4,703,080, 10-27-87, Cl. 524-555.000.
Shay, Joseph J., to Specialty Packaging Licensing Company. Nozzle. 4,669,665, 6-2-87, Cl. 239-428.500.

Shay, Lucas K., to Phillips Petroleum Company. *Pichia pastoris* yeast strains of enhanced tryptophan content. 4,707,449, 11-17-87, Cl. 435-255.000.

Shaya, Mousa N.; and Wyshogrod, Barry L., to Hewlett-Packard Company. Pace pulse identification apparatus. 4,664,116, 5-12-87, Cl. 128-419.0PT.

Shea, Allan K.: *See*—
Herr, Leroy E.; Shea, Allan K.; and Kunkle, Timothy E., 4,712,768, Cl. 251-305.000.

Shea, Brian T.: *See*—
Hembree, Charles B.; and Shea, Brian T., 4,709,483, Cl. 33-18.100.

Shea, Charles J.: *See*—
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Shea, Dennis J.: *See*—
Andersen, John E.; Barry, Robert L.; Christie, Kenneth H.; and Shea, Dennis J., 4,663,742, Cl. 365-189.000.

Shea, Dennis W.; Hart, Albert A.; and Charchian, Loris J., to Dana Corporation. Four wheel drive system including disengagement means. 4,667,767, 5-26-87, Cl. 180-247.000.

Shea, Dennis W.: *See*—
Hardt, John G.; and Shea, Dennis W., 4,643,284, Cl. 192-50.000.

Shea, John R., Jr. Joint seal assembly. 4,691,489, 9-8-87, Cl. 52-235.000.

Shea, John W.: *See*—
Kordich, Michael M.; and Shea, John W., 4,648,461, Cl. 169-60.000.

Shea, Richard J.: *See*—
Lima, Joseph V.; and Shea, Richard J., 4,648,850, Cl. 445-22.000.

Sheafor, Stephen J.; and Weng, Ken K. S., to Dialogic Systems Corp. Method and apparatus for fault tolerant serial communication of digital information. 4,649,384, 3-10-87, Cl. 340-825.030.

Sheahan, Michael H., to Rothmans of Pall Mall Limited. Control of cigarette rod formation. 4,700,719, 10-20-87, Cl. 131-84.400.

Shealey, E. David: *See*—
Scrantom, Dehart G.; and Shealey, E. David, 4,670,97", Cl. 29-741.000.

Shearer, Gerald W.: *See*—
Lofgren, Karl M. J.; Shearer, Gerald W.; and Frank, Charles W., Jr., 4,667,170, Cl. 331-17.000.
Lofgren, Karl M. J.; Shearer, Gerald W.; and Ouyang, Kenneth W., 4,716,383, Cl. 331-117.0FE.
Ouyang, Kenneth W.; Lofgren, Karl M. J.; and Shearer, Gerald W., 4,704,587, Cl. 331-116.0FE.

Shearer, Marcia C.: *See*—
Bowie, Betty A.; Newman, David J.; and Shearer, Marcia C., 4,672,036, Cl. 435-254.000.
Dingerdissen, John J.; Mehta, Rajanikant; Nisbet, Louis J.; Shearer, Marcia C.; and Wasserman, Gail F., 4,694,069, Cl. 530-317.000.

Shearer, Michael A.; Sasagawa, Pamela K.; and Hein, Ronald H., to Miles Laboratories, Inc. Method of preparing alpha-1-proteinase inhibitor and antithrombin III. 4,656,254, 4-7-87, Cl. 530-393.000.

Shearer, Wanda: *See*—
Sutton, Jimmy; Shearer, Wanda; Arkin, Karlie J.; Spoelstra, Jeffrey A.; Weiss, Steven M.; Ramsey, Sherry L.; Hurlbut, Kyle; Culbertson, W. Bruce; and Burns, Robert R., 4,649,499, Cl. 364-518.000.

Shearing, Steven P. Intraocular lens. 4,657,546, 4-14-87, Cl. 623-6.000.

Shearing, Steven P. Intraocular lens. 4,704,124, 11-3-87, Cl. 623-6.000.

Shearn, David M.: *See*—
Rutherford, David G.; Helling, Bernd; Shearn, David M.; and Shaler, David, 4,661,861, Cl. 358-302.000.

Shearon, Charles W.; Berticevich, Edward N.; and Billett, Ronald J., to FMC Corporation. Protective guard unit for metal working tool. 4,685,214, 8-11-87, Cl. 30-391.000.

Sheasby, Peter G.: *See*—
Davies, Nigel C.; and Sheasby, Peter G., 4,681,668, Cl. 204-28.000.

Sheath, Jeremy C.; and Hodges, William D., to Machines Chambon S.A. Gravure printing machine. 4,643,130, 2-17-87, Cl. 118-681.000.

Sheats, James R., to Hewlett-Packard Company. Method for photochemically enhancing resolution in photolithography processes. 4,705,729, 11-10-87, Cl. 430-5.000.

Shebanow, Michael C.: *See*—
Young, Mark S.; Drew, John; and Shebanow, Michael C., 4,667,286, Cl. 364-200.000.
Young, Mark S.; Drew, John; and Shebanow, Michael C., 4,667,326, Cl. 371-40.000.

Shebs, William T.: *See*—
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Shedd, Charles D.; and Anzini, David J., to BP Performance Polymers Inc. Thermoplastic elastomer compositions. 4,696,967, 9-29-87, Cl. 524-437.000.

Shedigian, Vandos, to Emhart Industries, Inc. Dielectric fluid for a capacitor. 4,642,731, 2-10-87, Cl. 361-319.000.

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Sheehan, Joseph C. M., to Kells Medical, Incorporated. Wound closure device. 4,702,251, 10-27-87, Cl. 128-335.000.

Sheehan, Kevin A., to Sheehan, Kevin A. Adjustable ratio roller rocker for internal combustion engines. 4,655,176, 4-7-87, Cl. 123-90.160.

Sheehan, Neil J.; Oppenlander, Jon E.; and Fleenor, Richard P., to Baxter Travenol Laboratories, Inc. Multi-volume displacement pipette. 4,679,446, 7-14-87, Cl. 73-864.130.

Sheehan, Richard W.; and Williford, Kenneth A., to World Tech Fibres, Inc. Air processing apparatus. 4,685,179, 8-11-87, Cl. 28-248.000.

Sheehan, Robert Douglas: *See*—
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Sheehy, Roger C.; and Muskat, Irwin, to Granite State Packing Company, Inc. Portion controlled sliced fresh whole muscle meat product. 4,680,186, 7-14-87, Cl. 426-129.000.

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Sheem, Sang K. Game toy. 4,681,325, 7-21-87, Cl. 273-345.000.

Sheen, Guang-Yue. Faucet valve. 4,700,736, 10-20-87, Cl. 137-315.000.

Sheen, Shuenn T. Motor-driven cart transmission mechanism. 4,669,561, 6-2-87, Cl. 180-19.100.

Sheesley, Wilmer L.; and Pauza, William V., to AMP Incorporated. Switching coaxial connector. 4,666,231, 5-19-87, Cl. 339-177.00R.

Sheesley, Wilmer L.: *See*—
Birch, Norman R.; Pauza, William V.; and Sheesley, Wilmer L., 4,687,446, Cl. 439-553.000.

Sheet Metal Connectors, Inc.: *See*—
Myers, Jerome J., 4,715,581, Cl. 251-308.000.

Sheets, Donald L.; Hoover, Sherwood A.; Hunt, Ronnie D.; and Burgers, Henri T., to Virginia Panel Corporation. Snap-in module for receiver assembly. 4,655,530, 4-7-87, Cl. 339-126.00R.

Sheets, Gerald R.; and Geiger, Frederick A., to General Motors Corporation. Quick connect coupling assembly. 4,653,781, 3-31-87, Cl. 285-319.000.

Sheets, John H. Positioning implement for intraocular lens. 4,706,666, 11-17-87, Cl. 128-303.00R.

Sheets, Laurence L., to American Telephone and Telegraph Company and AT&T Bell Laboratories. Electrical system having variable-frequency clock. 4,670,837, 6-2-87, Cl. 364-200.000.

Sheets, Payson D. Methods of making cutting implements and resulting products. 4,647,300, 3-3-87, Cl. 65-105.000.

Sheets, Ronald E., to Tamarack Scientific Co., Inc. Apparatus for heating semiconductor wafers in order to achieve annealing, silicide formation, reflow of glass passivation layers, etc. 4,649,261, 3-10-87, Cl. 219-390.000.

Sheets, Ronald E., to Tamarack Scientific Co., Inc. Method of heating semiconductor wafers in order to achieve annealing, silicide formation, reflow of glass passivation layers, etc. 4,698,486, 10-6-87, Cl. 250-492.200.

Sheetz, Michael P.: *See*—
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Sheffer Collet Company: *See*—
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Stone, William S.; and Dittrich, Thomas M., 4,662,043, Cl. 29-33.00P.
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Sheffer, Phil B., to Merchandising Innovations Co. Telescoping display stand. 4,638,745, 1-27-87, Cl. 108-111.000.

Sheffer, Phil B., to Merchandising Innovations Co. Promotional delivery van assembly. 4,643,349, 2-17-87, Cl. 229-8.000.

Sheffer, Phil B., to Merchandising Innovations Co. Promotional full trailer assembly. 4,643,697, 2-17-87, Cl. 446-488.000.

Sheffer, Phil B., to Merchandising Innovations Co. Promotional route truck assembly. 4,646,959, 3-3-87, Cl. 229-8.000.

Sheffer, Phil B., to Merchandising Innovations Co. Shelving units. 4,651,651, 3-24-87, Cl. 108-111.000.

Sheffer, Phil B., to Merchandising Innovations Co. Student desk. 4,653,817, 3-31-87, Cl. 312-195.000.

Sheffer, Phil B., to Merchandising Innovations Co. Promotional bay trailer assembly. 4,657,520, 4-14-87, Cl. 446-488.000.

Sheffer, Phil B., to Merchandising Innovations Co. Promotional truck assembly. 4,661,082, 4-28-87, Cl. 446-488.000.

Sheffer, Phil B., to Merchandising Innovations Co. Bar or bookshelf subassembly construction. 4,664,268, 5-12-87, Cl. 211-183.000.

Sheffer, Phil B., to Merchandising Innovations Co. Shelf or panel unit. 4,676,383, 6-30-87, Cl. 211-135.000.

Sheffer, Phil B., to Merchandising Innovations Co. Coffee Table. 4,685,401, 8-11-87, Cl. 108-153.000.

Sheffer, Tzafrir, to John Fluke Mfg. Co., Inc. Capacitance measuring method and apparatus. 4,716,361, 12-29-87, Cl. 324-60.00R.

Sheffield, Clyde: *See*—
Kaminski, Les K.; and Sheffield, Clyde, 4,659,889, Cl. 200-330.000.

Sheffield, James S.; and Van Halteren, Jacob, to Izon Industries Inc. Unit #11. Injection mold apparatus with gas ejection. 4,653,997, 3-31-87, Cl. 425-556.000.

Sheffield, Miller; Metcalfe, Robert S.; Calvin, James W.; and Chaback, Joseph J., to Amoco Corporation. Method of displacing fluids within a gas-condensate reservoir. 4,635,721, 1-13-87, Cl. 166-268.000.

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Shefter, Eli: *See*—
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Potapov, Ivan N.; Styrkin, German D.; Gremyakov, Ivan P.; and Sheikh-Ali, Alexei D., 4,660,400, Cl. 72-214.000.
Sheikh, Morris. Method for reduction of cod in water. 4,683,065, 7-28-87, Cl. 210-668.000.
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Shekhawat, Sampat S.; Dhyanchand, P. John; and Thollot, Pierre, to Sundstrand Corporation. Control for a neutral point clamped PWM inverter. 4,635,177, 1-6-87, Cl. 363-41.000.
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Shelar, Gary R., to R. J. Reynolds Tobacco Company. Pipe with replaceable cartridge. 4,708,151, 11-24-87, Cl. 131-359.000.
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Osborne, William E., 4,699,684, Cl. 156-379.600.
Shelburne, Paulette S.: *See*—
Carlson, Robert J.; and Shelburne, Paulette S., 4,704,188, Cl. 156-656.000.
Shelby, Richard K.; and Nutting, Robert G. Multi-station rotary blow molding machine. 4,698,012, 10-6-87, Cl. 425-526.000.
Shelden, C. Hunter; and McCann, Gilbert D. Stereotactic method and apparatus for locating and treating or removing lesions. 4,638,798, 1-27-87, Cl. 128-303.00B.
Sheldon, Donald A., to Kimberly-Clark Corporation. Convolutely wound paper tampon tube. 4,650,459, 3-17-87, Cl. 604-15.000.
Sheldon, Donald A., to Kimberly-Clark Corporation. Compact tampon tube applicator. 4,676,773, 6-30-87, Cl. 604-16.000.
Sheldon, Roger A.; and Heijmen, Hendricus J., to Shell Oil Company. Preparation of alpha-pivaloyl-substituted acetic acid esters. 4,656,309, 4-7-87, Cl. 560-174.000.
Sheldon, Sidney; and Butler, James L., Jr. Disposable diaper with wetness indicator. 4,705,513, 11-10-87, Cl. 604-361.000.
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Ritter, Paul B., Jr., 4,690,221, Cl. 166-382.000.
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Bond, Robert, 4,650,831, Cl. 525-332.900.
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Linnett, Paul E.; and Sanders, Johan P. M., 4,677,198, Cl. 530-500.000.
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Marsh, Gary L., 4,649,704, Cl. 60-415.000.
Petersen, William H., 4,657,439, Cl. 405-200.000.
Pritchard, John J., Jr., 4,655,283, Cl. 166-55.100.
Pritchard, John J., Jr., 4,688,640, Cl. 166-365.000.
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Shatto, Howard L., Jr., 4,674,915, Cl. 405-191.000.
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Sieler, Jeffrey J., 4,703,813, Cl. 175-5.000.
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Ayers, Ray R., 4,709,356, Cl. 367-19.000.
Baker, Daniel C., 4,654,148, Cl. 210-766.000.
Baker, Daniel C., 4,693,873, Cl. 423-215.500.
Bakker, Johannes, 4,705,467, Cl. 425-7.000.
Bannon, Robert P.; and Marple, Stanley, 4,640,743, Cl. 203-87.000.
Barnes, Peter H., 4,666,674, Cl. 422-144.000.
Bekooij, Jurrianus; Kooijmans, Petrus G.; Raudenbusch, Werner T.; and Stachowiak, Stephen A., 4,686,248, Cl. 523-404.000.
Betteridge, Peter R., 4,642,289, Cl. 435-101.000.
Bilhou, Jean L.; and Goodall, Brian L., 4,683,215, Cl. 502-107.000.
Bitter, Johan G. A., 4,670,151, Cl. 210-641.000.
Bleeker, Jan J.; Lammers, Jan H.; and Roest, Jacob B., 4,670,167, Cl. 252-8.554.
Bleeker, Jan J.; Lammers, Jan H.; Roest, Jacob B.; and Eckert, Rudolf J. A., 4,670,550, Cl. 536-114.000.
Blytas, George C.; and Grimsby, F. Norman, 4,657,647, Cl. 204-182.400.
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Blytas, George C.; Grimsby, F. Norman; and Scamehorn, John F., 4,696,726, Cl. 204-182.400.
Blytas, George C., 4,704,463, Cl. 549-521.000.
Blytas, George C.; and Trogus, Frank J., 4,705,530, Cl. 44-1.00R.
Blytas, George C., 4,705,531, Cl. 44-1.00R.
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Boxhoorn, Gosse; Klazinga, Aan H.; and Velthuis, Otto M., 4,701,437, Cl. 502-348.000.
Bush, Warren V., 4,676,885, Cl. 208-49.000.
Chadwick, John C.; and v. d. Sar, Jacob C., 4,663,299, Cl. 502-9.000.
Chatterjee, Ananda M., 4,645,792, Cl. 524-490.000.
Closmann, Philip J., 4,633,948, Cl. 166-271.000.
Closmann, Philip J., 4,669,299, Cl. 73-38.000.
Cole, John B., 4,689,489, Cl. 250-560.000.
Corley, Larry S., 4,654,383, Cl. 523-462.000.
Corley, Larry S., 4,668,758, Cl. 528-91.000.
Davison, Sol; and Hwo, Charles C., 4,677,025, Cl. 428-349.000.
de Jong, Feike; and Vermeule, Jacob, 4,715,973, Cl. 252-40.500.
de Kraa, Johannes A.; and Zomerman, Jannes J., 4,671,946, Cl. 423-230.000.
de Nie-Sarink, Margaretha J.; and Mason, Ronald F., 4,665,197, Cl. 548-953.000.
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Diaz, Zaida; and Miller, James H., 4,683,347, Cl. 568-869.000.
Dilgren, Richard E.; and Owens, Kenneth B., 4,643,256, Cl. 166-303.000.
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Drent, Eit, 4,664,851, Cl. 260-410.90R.
Drent, Eit, 4,670,582, Cl. 560-233.000.
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Drent, Eit, 4,692,548, Cl. 560-202.000.
Dries, Hubertus W. A. A., 4,695,298, Cl. 55-223.000.
Eckstein, Gunter K., 4,701,185, Cl. 48-197.00R.
Edwards, Charles L., 4,665,236, Cl. 568-618.000.
Edwards, Charles L., 4,689,435, Cl. 568-618.000.
Esparza, Joe O., 4,688,966, Cl. 405-168.000.
Esparza, Joe O., 4,702,647, Cl. 405-169.000.
Feringa, Bernard L., 4,661,642, Cl. 568-475.000.
Fong, Howard L.; Diaz, Zaida; and Blytas, George C., 4,664,902, Cl. 423-567.00A.
Fong, Howard L.; Diaz, Zaida; and Blytas, George C., 4,705,676, Cl. 423-567.00A.
Frank, Harry, 4,692,504, Cl. 528-89.000.
Fried, Herbert E., 4,638,093, Cl. 568-73.000.
Goodall, Brian L.; and Grothenhuis, Paulus A. M., 4,680,168, Cl. 423-22.000.
Goolsby, Alvin D., 4,639,677, Cl. 324-425.000.
Goudriaan, Johan C.; and Van der Burgt, Maarten J., 4,683,121, Cl. 422-197.000.
Graafland, Teunis, 4,701,494, Cl. 524-811.000.
Graiff, Leonard B., 4,666,529, Cl. 134-20.000.
Graiff, Leonard B.; and Holmes, Robert T., 4,687,034, Cl. 141-69.000.
Grimsby, F. Norman, 4,640,754, Cl. 204-182.400.
Hamilton, David M., Jr., 4,640,764, Cl. 208-110.000.
Haskell, Weston W.; and Ngan, Danny Y., 4,634,516, Cl. 208-91.000.
Heard, Nigel A., 4,684,776, Cl. 219-10.55M.
Holloway, Eugene L.; and Boyer, Alvin C., 4,665,958, Cl. 141-106.000.
Holscher, Hugo, 4,691,524, Cl. 60-652.000.
Hughes, Victor B., 4,640,781, Cl. 210-520.000.
Huizer, Willem; van der Toorn, Jacobus; and van der Voort, Gabriel N. M. M., 4,664,223, Cl. 181-113.000.
Hwo, Charles C., 4,665,130, Cl. 525-222.000.
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Job, Robert C., 4,657,995, Cl. 526-124.000.
Job, Robert C., 4,710,482, Cl. 502-127.000.
Johnson, Thomas H., 4,658,072, Cl. 585-24.000.
Karim, Karl A., 4,659,596, Cl. 427-393.500.
Kemp, Richard A., 4,716,140, Cl. 502-211.000.
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King, Bonnie J., 4,678,769, Cl. 502-231.000.
Koeling, Thijs; Lehr, Bernd C.; and Broekhuizen, Willem, 4,711,303, Cl. 166-250.000.
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Langner, Carl G., 4,671,702, Cl. 405-169.000.
Langner, Carl G., 4,687,377, Cl. 405-169.000.
Langner, Carl G., 4,700,788, Cl. 175-61.000.
Laursen, Nils K., 4,643,614, Cl. 405-169.000.
Laursen, Nils K., 4,676,696, Cl. 405-169.000.
Lewellen, Philip C.; and Son, Jaime S., 4,657,499, Cl. 425-208.000.
Lewis, Robert M.; and Van Santen, Rutger A., 4,637,992, Cl. 502-84.000.
Linton, John D.; Evans, Michael W.; and Godley, Andrew R., 4,634,667, Cl. 435-101.000.
Maas, Lawrence W.; Geiman, Richard A.; and Adams, Charles T., 4,701,254, Cl. 208-26.000.

Madgavkar, Ajay M.; and Washecheck, Donald M., 4,671,865, Cl. 208-96.000.
Marshall, Clifford D., 4,634,757, Cl. 528-89.000.
Marshall, Peter W., 4,633,801, Cl. 114-266.000.
Mason, Ronald F.; Scholes, Gary; and van Reijendam, Jan W., 4,701,534, Cl. 548-950.000.
Matza, Stephen D.; Ellington, William E.; and Fleming, Henry C., III, 4,658,914, Cl. 175-40.000.
McCullouch, J. Douglas, Jr.; and Rhodes, Louis C., 4,666,989, Cl. 525-240.000.
Meurs, Jan H. H.; and Sopher, David W., 4,663,487, Cl. 568-362.000.
Morgenthaler, Lee N.; Christenson, Thomas A.; and Radecki, Peter P., Jr., 4,670,305, Cl. 427-239.000.
Nieskens, Martin J. P. C.; and Ramamurthy, Ramalinga, 4,673,557, Cl. 423-230.000.
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Overcashier, Robert H.; and Farris, Robert D., 4,635,500, Cl. 74-552.000.
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Pilgram, Kurt H.; and Skiles, Richard D., 4,659,858, Cl. 558-81.000.
Post, Martin F. M.; Sie, Swan T.; and Sudholter, Ernst J. R., 4,640,766, Cl. 208-111.000.
Rambow, Frederick H. K., 4,691,307, Cl. 367-69.000.
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Richardson, Edwin A., 4,646,832, Cl. 166-250.000.
Roberts, David L.; and van Velzen, Johan F. G., 4,643,257, Cl. 166-303.000.
Roever, William L., 4,689,777, Cl. 367-153.000.
Ruyter, Herman P.; and Annee, Johannes H. J., 4,670,613, Cl. 585-240.000.
Samuelson, Gay M.; and St. Clair, David J., 4,692,557, Cl. 136-251.000.
Schmeal, W. R.; Singhal, S. N.; and Lo, K. H., 4,640,853, Cl. 428-35.000.
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Sheldon, Roger A.; and Heijmen, Hendricus J., 4,656,309, Cl. 560-174.000.
Sie, Swan T., 4,681,701, Cl. 252-373.000.
Simpson, Wayne F.; Ayers, Ray R.; and Patterson, Robert W., 4,640,645, Cl. 405-63.000.
Singleton, David M., 4,638,084, Cl. 560-202.000.
Singleton, Donald W., 4,677,425, Cl. 340-627.000.
Slaugh, Lynn H.; and Schoenthal, Galeon W., 4,658,078, Cl. 585-512.000.
Slaugh, Lynn H.; and Schoenthal, Galeon W., 4,665,047, Cl. 502-108.000.
Slaugh, Lynn H., 4,669,545, Cl. 166-300.000.
Slaugh, Lynn H., 4,683,218, Cl. 502-302.000.
Son, Jaime S.; and Lewellen, Philip C., 4,659,230, Cl. 366-343.000.
Steenge, Wiecher D. E.; van der Werf, Ringnerus P.; and Haringa, Jan, 4,664,889, Cl. 422-147.000.
Stil, Jacob H.; and Turner, Louis H., III, 4,671,806, Cl. 55-80.000.
Tan, Kee H.; and Sherlock, William R., 4,664,419, Cl. 285-31.000.
Tripp, Harley A., 4,700,577, Cl. 73-801.000.
Udding, Anne C., 4,666,631, Cl. 260-349.000.
van den Berg, Wilhemus H.; Homs, Marinus H.; and van Oorschot, Bob P. J., 4,691,572, Cl. 73-643.000.
van den Steen, Leon, 4,674,010, Cl. 361-433.000.
van Dongen, Johannes C. M.; and Maekiaho, Leo B., 4,682,421, Cl. 33-302.000.
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Vinegar, Harold J.; and Waxman, Monroe H., 4,644,283, Cl. 324-376.000.
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Vinegar, Harold J.; and Wellington, Scott L., 4,663,711, Cl. 364-420.000.
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Westerman, David W. B.; and Scott, Andrew M., 4,693,807, Cl. 208-108.000.
Wife, Richard L.; Snel, Johannes J. M.; and Van Oort, Aart B., 4,683,338, Cl. 568-12.000.
Wong, Pui K., 4,667,004, Cl. 526-284.000.
Wong, Pui K., 4,667,005, Cl. 526-284.000.
Wong, Pui K., 4,687,815, Cl. 525-271.000.
Wong, Pui K., 4,698,394, Cl. 525-289.000.
Wong, Pui K.; and Handlin, Dale L., Jr., 4,708,990, Cl. 525-250.000.
Wong, Pui K., 4,708,994, Cl. 525-392.000.
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Wood, Derek A.; and Briner, Paul H., 4,639,334, Cl. 548-952.000.
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Landingham, Richard L.; and Shell, Thomas E., 4,704,338, Cl. 428-627.000.
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Simpson, Wayne F., 4,645,376, Cl. 405-63.000.
Shell, William. Visualization of a bloodstream circulation with biodegradable microspheres. 4,680,171, 7-14-87, Cl. 424-5.000.
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Shelley, Delwyn J. Hot water tank water preheater. 4,702,226, 10-27-87, Cl. 126-362.000.
Shelley, Edwin F. Time independent data transmission system having capability for accessing a plurality of data devices. 4,654,868, 3-31-87, Cl. 379-106.000.
Shelley, William. Linear radiant ceiling panel. 4,635,710, 1-13-87, Cl. 165-49.000.
Shellhause, Ronald L., to General Motors Corporation. Drum brake adjusters. 4,706,784, 11-17-87, Cl. 188-79.50B.
Shelly, Javan; and Rekers, Louis J., to National Distillers and Chemical Corporation. Intermetallic compound. 4,656,151, 4-7-87, Cl. 502-113.000.
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Shelton, Jay W. Cigarette fire safety apparatus. 4,687,006, 8-18-87, Cl. 131-257.000.
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Shen, Chin W., to Texaco Inc. Steam foam floods with a caustic agent. 4,702,317, 10-27-87, Cl. 166-272.000.

Shen, Chung Y., to Monsanto Company. Production of sodium phenol sulfonate. 4,666,636, 5-19-87, Cl. 260-512.00R.

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Shen, Hanshi. Method and apparatus for eliminating cavitation in hydraulic systems. 4,696,684, 9-29-87, Cl. 55-89.000.

Shen, Hwang K. Cooling device for a can containing a beverage. 4,656,838, 4-14-87, Cl. 62-294.000.

Shen, Lawrence Y. L.: *See*—
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Moorehead, Eric L.; and Shen, Sidney Y., 4,699,707, Cl. 208-57.000.

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Ryser, Hugues J.; and Shen, Wei-Chiang, 4,701,521, Cl. 530-322.000.

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Shenker, Martin: *See*—
LaRussa, Joseph A.; and Shenker, Martin, 4,708,438, Cl. 350-174.000.

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Kondraske, George V.; and Shennib, Adnan, 4,674,112, Cl. 379-96.000.

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Cartledge, Robert, 4,712,820, Cl. 294-138.000.

Shepard, David H., to Cognitronics Corporation. Power generation from high altitude winds. 4,659,940, 4-21-87, Cl. 290-55.000.

Shepard, Francis H., Jr. Fluorescent lamp driver. 4,658,343, 4-14-87, Cl. 363-22.000.

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Reynolds, David P.; Shepard, John D.; and Stone, Samuel L., Jr., 4,673,207, Cl. 296-39.00R.

Shepard, Joseph F., to International Business Machines Corporation. Submicron FET structure and method of making. 4,636,834, 1-13-87, Cl. 357-23.300.

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Giammarco, Nicholas J.; Gimpelson, Alexander; Kaplita, George A.; Lopata, Alexander D.; Scaduto, Anthony F.; and Shepard, Joseph F., 4,707,218, Cl. 156-643.000.
Ogura, Seiki; Riseman, Jacob; Rovedo, Nivo; and Shepard, Joseph F., 4,641,170, Cl. 357-35.000.

Shepard, Kenneth L.; and Graham, Samuel L., to Merck & Co., Inc. Elevated intraocular pressure lowering benzo-[b]-thiophene-2-sulfonamide derivatives, compositions, and method of use therefor. 4,668,697, 5-26-87, Cl. 514-443.000.

Shepard, Kenneth L., to Merck & Co., Inc. Substituted benzenesulfonamides. 4,678,855, 7-7-87, Cl. 564-85.000.

Shepard, Melvin E.; and Gallagher, Elwood P., to Amigo Sales, Inc. Methods and apparatus for adapting steerable powered vehicles for the handicapped to outdoor travel. 4,666,008, 5-19-87, Cl. 180-16.000.

Shepard, Richard W.: *See*—
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Worthington, Paul A.; and Shephard, Margaret C., 4,690,941, Cl. 514-383.000.

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Shepheard, Thomas E., to Air-A-Plane Corporation. Conduit on passenger loading bridge. 4,715,077, 12-29-87, Cl. 14-71.500.

Shepherd, Charles G.; and Travale, Samuel, to B. D. Wait Co. Limited. One piece adjustable damper. 4,691,689, 9-8-87, Cl. 126-295.000.

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Shepherd, Clayton C., Jr.: *See*—
Allen, John E.; Glover, John D.; and Shepherd, Clayton C., Jr., 4,713,647, Cl. 338-316.000.

Shepherd, David. *See*—
Keary, Colin M.; and Shepherd, David, 4,657,676, Cl. 210-198.200.

Shepherd, Ewan W.: *See*—
Harris, Ian R.; and Shepherd, Ewan W., 4,644,302, Cl. 333-125.000.

Shepherd, Fred A.: *See*—
Whiteley, John; and Shepherd, Fred A., 4,702,068, Cl. 57-401.000.

Shepherd, Freddie A.: *See*—
Beavers, Randy S.; McFarlane, Finley E.; Musser, Harry R.; and Shepherd, Freddie A., 4,636,442, Cl. 428-480.000.

Shepherd, Harold L.; and Spector, George. Cassette pressure pad improvement. 4,669,020, 5-26-87, Cl. 360-130.320.

Shepherd Industries Limited: *See*—
Tessier, Frederic G., 4,649,800, Cl. 89-194.000.

Shepherd, John D. Internally clamped handrail system. 4,650,164, 3-17-87, Cl. 256-68.000.

Shepherd, John D. Preassembled platform stairway. 4,707,957, 11-24-87, Cl. 52-183.000.

Shepherd, John L.: *See*—
DeWitt, Gregory S.; Driscoll, John J.; and Shepherd, John L., 4,688,214, Cl. 370-94.000.

Shepherd, Lawrence H., Jr.; DeWitt, William J.; and Kuchnhauss, Gerhard O., to Ethyl Corporation. Oil recovery process. 4,643,253, 2-17-87, Cl. 166-274.000.

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Shepherd Patents S.A.: *See*—
Wallsten, Hans I., 4,655,771, Cl. 623-1.000.

Shepherd Products U.S., Inc.: *See*—
Estkowski, Michael H.; Doumani, Robert S.; and Estkowski, Christopher G., 4,696,394, Cl. 206-303.000.
Shane, Robert M., 4,649,595, Cl. 16-18.0CG.

Shepherd, Richard C.; and Safarik, C. Robert. Carpet dyeing apparatus and method. 4,697,291, 10-6-87, Cl. 8-151.000.

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Holt, David R.; Harms, Thomas C., Jr.; and Shepherd, Robert B., 4,651,998, Cl. 273-347.000.

Shepherd, Robert W., to Ellcon-National, Inc. Railway car hand brake with release governor. 4,714,142, 12-22-87, Cl. 188-185.000.

Shepherd, Robin G., to John Wyeth & Brother Limited. Preparation of nitriles and thioamides of fused ring pyridine derivatives. 4,707,552, 11-17-87, Cl. 546-176.000.

Shepherd, Robin G.: *See*—
White, Alan C.; Shepherd, Robin G.; and Langham, Barry J., 4,640,924, Cl. 514-291.000.

Shepherd, Roger D.: *See*—
Nilsson, Ben A.; and Shepherd, Roger D., 4,711,552, Cl. 355-3.00R.

Shepherd, Walter B., Jr. Visco-elastic detergent preparation. 4,654,158, 3-31-87, Cl. 252-91.000.

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Enderby, Ralph T.; Ferrer, Enrique; and Shepherd, Wayne P., 4,713,631, Cl. 331-36.00C.

Shepler, Edward E.: *See*—
Gaudelli, Edmond N.; and Shepler, Edward E., 4,660,344, Cl. 52-593.000.

Shepler, John E., to Sundstrand Corporation. Frequency detector system. 4,672,556, 6-9-87, Cl. 364-484.000.

Shepler, John E.; and Zur, Dov, to Sundstrand Corporation. Generating system with fault detection. 4,710,840, 12-1-87, Cl. 361-20.000.

Shepler, Peter R.: *See*—
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Shepler, Robert E.: *See*—
Ainsworth, John H.; and Shepler, Robert E., 4,639,388, Cl. 428-117.000.

Shepley, Pete; Johnston, Richard; and Smith, Allan F., to Precision Shooting Equipment Company. Combination arrow quiver and sight support mount. 4,697,350, 10-6-87, Cl. 33-265.000.

Sheppard, Clyde H.: *See*—
Lubowitz, Hyman R.; and Sheppard, Clyde H., 4,661,604, Cl. 548-435.000.
Lubowitz, Hyman R.; and Sheppard, Clyde H., 4,684,714, Cl. 528-353.000.

Sheppard, Douglas B.; Solbes, Albert; and Roy, Gabriel D., to TRW Inc. Slagging combustor with externally-hot fuel injector. 4,660,478, 4-28-87, Cl. 110-264.000.

Sheppard, Douglas B.; Solbes, Albert; Stansel, John C.; and Hill, Lance E., to TRW Inc. Slagging combustion system. 4,685,404, 8-11-87, Cl. 110-265.000.

Sheppard, Douglas P.: *See*—
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Sheppard, Frank P.: *See*—
Anthony, Bruce O., Jr.; Heise, Thomas M.; and Sheppard, Frank P., 4,707,803, Cl. 364-900.000.

Sheppard, Harry R.: *See*—
Lin, Kou C.; Burkhardt, Charles E.; and Sheppard, Harry R., 4,705,578, Cl. 148-108.000.

Sheppard, Howard H. Plier tool for making an improved electrical connection. 4,644,625, 2-24-87, Cl. 29-268.000.

Sheppard, Howard H. Clamping apparatus for making an improved electrical connection. 4,710,080, 12-1-87, Cl. 411-82.000.

Sheppard, John D.: *See*—
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Sheppard, John P.: *See*—
Henderson, Alan R.; and Sheppard, John P., 4,669,042, Cl. 364-181.000.

Sheppard, Joseph E.; Dell, Paul C.; Gearen, Peter F.; Bittar, Edward S.; and Miller, Gary J., to University of Florida. Dynamic traction wrist cast brace. 4,643,177, 2-17-87, Cl. 128-84.00C.

Sheppard, Michael, to Prad Research and Development NV. Method of drilling a directonal well bore. 4,715,452, 12-29-87, Cl. 175-61.000.

Sheppard, Robert: *See*—
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Sheppard, William J.; and Sheppard, William L. Liquid level measuring apparatus and method. 4,665,746, 5-19-87, Cl. 73-302.000.

Sheppard, William L. Tube winder. 4,664,293, 5-12-87, Cl. 222-99.000.

Sheppard, William L. Powered V-berth platform. 4,714,043, 12-22-87, Cl. 114-343.000.

Sheppard, William L.: *See*—
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Sher, Alan: *See*—
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Sher, Arden, to SRI International. Integrated circuit having dislocation free substrate. 4,697,202, 9-29-87, Cl. 357-63.000.

Sher, Ephraim: *See*—
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Sherbeck, Leander A.: *See*—
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Sherbeck, Terry G., to Tektronix, Inc. Touch panel input apparatus. 4,703,316, 10-27-87, Cl. 340-706.000.

Sherby, Marc, to Plumbmaster, Inc. Inlet valve mechanism for a toilet tank. 4,699,169, 10-13-87, Cl. 137-434.000.

Sherer, Paul, to Seacliff International, Inc. Portable battery charging apparatus and methods therefor. 4,692,680, 9-8-87, Cl. 320-2.000.

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Blackhurst, Clarence W., 4,683,336, Cl. 564-480.000.
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Keys, Robert O., 4,678,561, Cl. 209-166.000.
Keys, Robert O., 4,678,562, Cl. 209-166.000.
Keys, Robert O., 4,678,563, Cl. 209-166.000.

Sheridan, Arthur L.: *See*—
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Sheridan Corporation: *See*—
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Sheridan, Nicholas K.; and Sander, Gerhard K., to Xerox Corporation. Fluid assisted ion projection printing head. 4,644,373, 2-17-87, Cl. 346-159.000.

Sheridan, Stephen E.: *See*—
Hensel, Robert J.; Wagner, James L.; Hundertmark, James M.; Sheridan, Stephen E.; and Heidel, David W., 4,702,202, Cl. 123-52.00M.

Sheridan, Thomas B.: *See*—
Landsberger, Samuel E.; and Sheridan, Thomas B., 4,666,362, Cl. 414-735.000.

Sheridan, Thomas L. Snail and slug electrical barrier. 4,706,941, 11-17-87, Cl. 256-10.000.

Sheriff, David R., to Xerox Corporation. Floating collet suspension for floppy disk drives. 4,649,445, 3-10-87, Cl. 360-99.000.

Sheriff, Jack W., to Modublox & Co., Inc. Wideband VHF/UHF radio antenna with quarter-wave, transformer. 4,673,949, 6-16-87, Cl. 343-825.000.

Sherin, Alan; Geagley, Bradley; and Benest, Glenn. Board game simulating travel through time. 4,679,797, 7-14-87, Cl. 273-251.000.

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Sherlock, H. Paul: *See*—
Noel, Raymond; Robinson, William M.; Cherian, Gabe; Clifford, Thomas H.; Carlomagno, William D.; Deasy, William M.; Grassauer, Willie K.; Haygood, David K.; Sherlock, H. Paul; and White, Harry E., 4,712,721, Cl. 228-56.300.

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Sherlock, William R.: *See*—
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Sherman, Charles F., to Esselte Pendaflex Corp. Display frame for mounting vertical surface. 4,689,906, 9-1-87, Cl. 40-152.100.

Sherman, Daniel A. Tamper-proof rodent bait station. 4,637,162, 1-20-87, Cl. 43-131.000.

Sherman, Daniel A. Elongated baffled tunnel opening for a rodent tamper-resistant bait station. 4,648,201, 3-10-87, Cl. 43-131.000.

Sherman, Daniel A. Rodent glue trap with ramps for retaining a removable adhesive tray. 4,672,770, 6-16-87, Cl. 43-58.000.

Sherman, Harold: *See*—
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Sherman, John D.; Nagji, Moez M.; Ross, Ronald J.; Ausikaitis, Joseph P.; and Garg, Desh R., to Union Carbide Corporation. Drying process using chabazite-type adsorbents. 4,663,052, 5-5-87, Cl. 210-679.000.

Sherman, John D.: *See*—
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Sherman, John J.: *See*—
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Sherman, Max H.: *See*—
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Sherman, Michael I.; and Golston, Stefan, to Kamyr, Inc. Two stage medium consistency pulp pumping. 4,637,779, 1-20-87, Cl. 415-143.000.

Sherman, Michael I., to Kamyr, Inc. Method of countercurrent acid hydrolysis of comminuted cellulosic fibrous material. 4,668,340, 5-26-87, Cl. 162-16.000.

Sherman, Paul: *See*—
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Sherman, Rand C.; and Grieser, Daniel R., to Battelle Development Corporation. Optical correlator using electronic image preprocessing. 4,637,056, 1-13-87, Cl. 382-31.000.

Sherman, Rand C., to Stanley Electric Company, Ltd. Method and system for automatically bonding a leadwire on a semiconductor. 4,671,446, 6-9-87, Cl. 228-4.500.

Sherman, Raymond W.: *See*—
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Sherman, Robert: *See*—
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Sherman, Victor; Zborovsky, Ilya; and Sanchez, William. Apparatus for cooking food. 4,715,357, 12-29-87, Cl. 126-39.00H.

Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J., to Brandt, Inc. Method and apparatus for counting sheets which may be fed in skewed and/or overlapping fashion. 4,671,502, 6-9-87, Cl. 271-4.000.

Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J., to Brandt, Incorporated. Method and apparatus for counting sheets which may be fed in skewed and/or overlapping fashion. 4,703,172, 10-27-87, Cl. 250-223.00R.

Sherman, William, III; Larkin, Francis C.; and Horvath, Stephen J., to Brandt, Incorporated. Method and apparatus for counting sheets

which may be fed in skewed and/or overlapping fashion. 4,707,599, 11-17-87, Cl. 250-223.00R.

Sherman, William D.: *See—*
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Sherman, William E., II, to Allied Corporation. Method of injecting molding a universal joint. 4,707,320, 11-17-87, Cl. 264-242.000.

Shernov, Stephen L.; Siegal, Maurice; and Markowitz, Richard, to Faberge Incorporated. Mousse hair composition. 4,673,569, 6-16-87, Cl. 424-47.000.

Shero, David J.; Dadpey, Habib; and Magee, C. Scott, to Westinghouse Electric Corp. Induction motor synthesis control apparatus and method. 4,673,859, 6-16-87, Cl. 318-810.000.

Shero, David J.; and Dadpey, Habib, to Westinghouse Electric Corp. Induction motor control apparatus and method. 4,695,783, 9-22-87, Cl. 318-808.000.

Shero, David J.: *See—*
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Sherratt, James K., to Advantage Food Systems, Inc. Cooking oil distribution and grease collection and dispensing apparatus and method. 4,646,793, 3-3-87, Cl. 141-1.000.

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Sherretts, Jeffrey R. Moldable ski-sled. 4,650,198, 3-17-87, Cl. 280-12.00K.

Sherriffs, Neill M.: *See—*
Gourlay, Robert R. R.; and Sherriffs, Neill M., 4,645,897, Cl. 219-101.000.

Sherrill Industries, Inc.: *See—*
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Sherrill, Jimmy L., to Tutco, Inc. Electric heater having an insulator with sloped guide surfaces and notches receiving a heater coil. 4,675,511, 6-23-87, Cl. 219-532.000.

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Sherritt Gordon Mines Limited: *See—*
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Sherrod, Phillip H., to S & H Computer Systems, Inc. Method and apparatus for scheduling the execution of multiple processing tasks in a computer system. 4,642,756, 2-10-87, Cl. 364-200.000.

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Sherry, A. Dean, to Board of Regents, The University of Texas System, The. Gadolinium chelates as NMR contrast agents. 4,639,365, 1-27-87, Cl. 424-9.000.

Sherry, Lois R.: *See—*
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Sherwin, Gary W., to Westinghouse Electric Corp. Shielded, self-preparing electrode suitable for electroencephalographic mapping. 4,640,290, 2-3-87, Cl. 128-642.000.

Sherwin, Gary W., to Westinghouse Electric Corp. Low noise electroencephalographic probe wiring system. 4,678,563, 7-7-87, Cl. 174-36.000.

Sherwin, Gary W.; and Zomp, John M., to Westinghouse Electric Corp. Electromagnetically shielded narrow band electroencephalographic amplifier. 4,679,002, 7-7-87, Cl. 330-66.000.

Sherwin, Gary W., to Westinghouse Electric Corp. Electroencephalographic cap. 4,709,702, 12-1-87, Cl. 128-644.000.

Sherwin, Gary W.: *See—*
Bernard, Thomas E.; Roth, Emile M; Mohan, Edwin R.; Sherwin, Gary W.; and Zomp, John M., 4,697,598, Cl. 128-731.000.
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Gupta, Goutam, 4,644,077, Cl. 556-457.000.
Mels, Sherman J.; Petrie, Brian C.; and Pokusa, Richard J., 4,668,360, Cl. 204-181.700.
Ongena, Robert E., 4,668,460, Cl. 264-255.000.
Sprute, Fritz A., 4,681,262, Cl. 239-306.000.

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Andersen, David M.; Bitzer, Donald L.; Rader, Robert K.; Sherwood, Bruce A.; and Tucker, Paul T., 4,636,174, Cl. 434-335.000.

Sherwood, Carl H.: *See—*
Fornuto, Joseph; Gifford, William E.; Nolan, Daniel; and Sherwood, Carl H., 4,706,708, Cl. 137-588.000.

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Sherwood, Donald G.: *See—*
Gillett, James E.; Garner, Daniel C.; and Sherwood, Donald G., 4,687,628, Cl. 376-353.000.
Kimbrell, James E., Boyd, Charles H.; Altman, David A.; Sherwood, Donald G.; and Bost, Glenn E., 4,659,539, Cl. 376-377.000.

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Hicks, Loy A., Jr.; Sherwood, Edward P.; and Saks, Thomas J., 4,678,253, Cl. 439-210.000.

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Agdanowski, Ronald T.; Geil, James A.; and Tatro, Bernard J., 4,648,398, Cl. 128-207.180.
Bruno, Robert; Kipperman, Stuart R.; Mayer, Geoffrey R.; and Thomas, Michael, 4,713,064, Cl. 604-257.000.
Cornell, William D.; Gilson, Richard W.; Burkholder, Richard A.; and Ausherman, Ronald W., 4,702,261, Cl. 128-754.000.
Dodge, Larry H.; and Stone, Glen, 4,707,276, Cl. 210-789.000.
Edwards, Christopher J.; George, Robert D.; and Sherlock, Paul, 4,633,887, Cl. 128-762.000.
Flynn, Daniel P.; and Ranford, Alan B., 4,673,161, Cl. 251-10.000.
Fortier, Earl J.; and Banning, Robert D., 4,661,110, Cl. 604-256.000.
George, Robert D.; and Banning, Robert D., 4,693,709, Cl. 604-212.000.
McAlister, Gary B.; and Malloy, James, 4,703,763, Cl. 128-765.000.
McCool, George W., 4,693,710, Cl. 604-283.000.
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Dai, Shenghong A.; and Sherwood, Philip W., 4,683,302, Cl. 540-356.000.

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Jin, Sungho; Mottine, John J., Jr.; Sherwood, Richard C.; and Tiefel, Thomas H., 4,644,101, Cl. 178-18.000.

Sherwood Tool, Incorporated. *See—*
Varano, Richard F., 4,680,023, Cl. 493-75.000.

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Moroz, Pavel E., 4,670,003, Cl. 494-10.000.

Shestak, Edward J.; and Marschik, David, to Westinghouse Electric Corp. Circuit interrupter with shock resistant mechanism. 4,639,700, 1-27-87, Cl. 335-6.000.

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Heyne, Carl J.; Hackworth, Donald T.; Docherty, Edward F.; and Shestak, Edward J., 4,672,248, Cl. 310-68.00D.

Sheth, Bhogilal B.; Gilbert, Sheri A.; and Kinsel, Jane F., to Richardson-Vicks Inc. Antidiarrheal compositions and use thereof. 4,666,716, 5-19-87, Cl. 424-195.100.

Sheth, Jayesh V.: *See—*
Hotchkin, Glenn T.; Mortensen, David J.; and Sheth, Jayesh V., 4,644,463, Cl. 364-200.000.

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Mergens, William J.; Newmark, Harold L.; Sheth, Prabhakar R., and Tossounian, Jacques L., 4,681,756, Cl. 424-451.000.

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Kolff, Willem J.; and Shettigar, Udipi R., 4,663,049, Cl. 210-641.000.

Shetty, Bola V.; McFadden, Arthur; and Hofer, Peter, to Purdue Frederick Company, The. Analgesic and anti-inflammatory compounds. 4,639,529, 1-27-87, Cl. 548-550.000.

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Sheu, Chin-Chang. Cable connector structure. 4,667,064, 5-19-87, Cl. 174-84.00R.

Sheu, Muh-Chuan. Adjustable bookrack. 4,682,696, 7-28-87, Cl. 211-43.000.

Sheu, Por-Jiy. Emergency descent device. 4,688,659, 8-25-87, Cl. 182-238.000.

Sheu, Shan-Shan; Yang, Robert K.; and Corsello, Vincent, to Warner-Lambert Company. Soft-textured confectioner composition containing fiber. 4,698,232, 10-6-87, Cl. 426-572.000.

Sheu, Shyh-Her: *See—*
Tsui, Yu-Ming; and Sheu, Shyh-Her, 4,699,478, Cl. 350-583.000.

Shevlin, Craig M.: *See*—
Phillips, Roger W.; Shevlin, Craig M.; and Matteucci, John S., 4,702,963, Cl. 428-426.000.

Shevrin, Howard; Williams, William J.; and Marshall, Robert E., to University of Michigan, The. System for assessing verbal psychobiological correlates. 4,699,153, 10-13-87, Cl. 128-731.000.

Shew, Jerry D., to Stewart-Warner Corporation. Dual mode grease gun. 4,664,298, 5-12-87, Cl. 222-287.000.

Shewchuk, John. Coupling component for breakaway pole bases. 4,674,907, 6-23-87, Cl. 403-2.000.

Shewey, Charles E.: *See*—
Knowles, Terence J.; Ray, Francis M.; and Shewey, Charles E., 4,710,707, Cl. 324-158.00F.

Shewmon, Daniel C. Reinforced seam construction. 4,637,330, 1-20-87, Cl. 112-417.000.

Sheyon, Gregory M.; and Aurichio, Joseph A., to Stauffer Chemical Company. Adhesively mountable die attach film. 4,687,693, 8-18-87, Cl. 428-148.000.

Shfaram, Adiel: *See*—
Zakai, Avraham; and Shfaram, Adiel, 4,702,280, Cl. 137-853.000.

Shi, Yan-Chi: *See*—
Harstead, Edward E.; Klafter, Leon; and Shi, Yan-Chi, 4,643,521, Cl. 350-96.200.

Shia, George A.; and Friedland, David J., to Allied Corporation. Method of inhibiting voltage suppression lithium/fluorinated carbon batteries. 4,686,161, 8-11-87, Cl. 429-50.000.

Shiang, Joung-Lin. Elastic pressure and automatic-air-ventilation type of inso'e. 4,633,597, 1-6-87, Cl. 36-43.000.

Shiao-Chung Hu, Jerry, to Trion, Inc. Power supply with arcing control and automatic overload protection. 4,651,264, 3-17-87, Cl. 363-18.000.

Shiau, Bor E. Fishing sinker with a variable pulling point. 4,665,643, 5-19-87, Cl. 43-44.970.

Shiau, Jgi J. Inherently effectively damped coiled spring. 4,640,500, 2-3-87, Cl. 267-168.000.

Shiba, Akira: *See*—
Shimura, Takaki; Murakami, Keiichi; Igarashi, Yutaka; Shiba, Akira; Hayashi, Hajime; Miwa, Hirohide; Inoue, Michitoshi; and Matsumoto, Masayuki, 4,655,228, Cl. 128-660.000.

Shiba, Daisuke; Miyashita, Iwao; and Ito, Osamu, to Kao Corporation. Absorbent article. 4,652,484, 3-24-87, Cl. 428-286.000.

Shiba, Haruo; Sato, Takateru; Tanaka, Kimio; and Sakata, Yoshiya, to TDK Corporation. Magnetic tape cassette having two layered portions. 4,688,128, 8-18-87, Cl. 360-132.000.

Shiba, Haruo; and Sakata, Yoshiya, to TDK Corporation. Pressing spring for a magnetic tape cartridge. 4,707,757, 11-17-87, Cl. 360-132.000.

Shiba, Haruo: *See*—
Iizuka, Michio; and Shiba, Haruo, 4,656,550, Cl. 360-133.000.
Iizuka, Michio; and Shiba, Haruo, 4,677,516, Cl. 360-133.000.
Iizuka, Michio; and Shiba, Haruo, 4,710,839, Cl. 360-133.000.
Okamura, Masatoshi; Shiba, Haruo; and Akaoka, Kenkichi, 4,663,689, Cl. 360-132.000.
Okamura, Masatoshi; and Shiba, Haruo, 4,679,109, Cl. 360-132.000.
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Shiba, Kazuo, to Citizen Watch Co., Ltd. Positioning system. 4,669,359, 6-2-87, Cl. 91-361.000.

Shiba, Keisuke: *See*—
Naritomi, Yasuhisa; Takahashi, Hiroshi; and Shiba, Keisuke, 4,690,886, Cl. 430-303.000.
Takahashi, Hiroshi; Narutomi, Yasuhisa; Aotani, Yoshimasa; and Shiba, Keisuke, 4,642,283, Cl. 430-303.000.

Shiba, Kenji: *See*—
Maejima, Takeshi; and Shiba, Kenji, 4,639,224, Cl. 434-286.000.
Suzuki, Takao; and Shiba, Kenji, 4,643,681, Cl. 434-286.000.

Shiba, Kiminori: *See*—
Watanabe, Kenshu; Shiba, Kiminori; Arai, Mikiya; Yamaguchi, Masaya; Fujiki, Yasuo; and Fujimoto, Ryohei, 4,648,480, Cl. 181-158.000.

Shiba, Koreyuki: *See*—
Arisawa, Takashi; Maruyama, Yoichiro; Shiba, Koreyuki; Niwa, Toshio; Kaneko, Masaharu; and Ono, Hitoshi, 4,646,309, Cl. 372-53.000.
Arisawa, Takashi; Suzuki, Youji; Maruyama, Yoichiro; Kato, Masaaki; and Shiba, Koreyuki, 4,689,128, Cl. 204-157.220.

Shiba, Masataka; Uto, Sachio; and Koizumi, Mitsuyoshi, to Hitachi, Ltd. Foreign particle detecting method and apparatus. 4,669,875, 6-2-87, Cl. 356-237.000.

Shiba, Masataka: *See*—
Oshida, Yoshitada; Shiba, Masataka; Nakata, Toshihiko; Koizumi, Mitsuyoshi; and Nakashima, Naoto, 4,668,089, Cl. 356-152.000.
Oshida, Yoshitada; Shiba, Masataka; Nakashima, Naoto; Nakata, Toshihiko; and Uto, Sachio, 4,701,050, Cl. 356-152.000.
Uto, Sachio; Shiba, Masataka; and Oshida, Yoshitada, 4,676,637, Cl. 356-237.000.

Shiba, Nobuyasu: *See*—
Iida, Hideyo; Mishuku, Toshio; and Shiba, Nobuyasu, 4,675,469, Cl. 136-259.000.

Shiba, Noriyuki: *See*—
Watanabe, Takemi; and Shiba, Noriyuki, 4,683,022, Cl. 156-505.000.

Shiba Seisakusho Limited Responsibility Company: *See*—
Matsuo, Hiroyoshi, 4,693,538, Cl. 439-460.000.

Shiba, Takashi: *See*—
Yamada, Jun; Yuhara, Akitsuna; Shiba, Takashi; and Fujita, Yuji, 4,689,586, Cl. 333-151.000.

Shiba, Takeshi; Shimizu, Toshiaki; and Yanase, Fumihiro, to Tokusen Kogyo Kabushiki Kaisha. Method of thermal diffusion alloy plating for steel wire on continuous basis. 4,659,437, 4-21-87, Cl. 204-28.000.

Shiba, Tetsuo; Takahashi, Kazuhisa; Ikeda, Kenji; and Higuchi, Hideyo, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor light receiving device. 4,706,106, 11-10-87, Cl. 357-78.000.

Shiba, Toyoaki; Goto, Seiichi; and Ito, Keishi, to Toyo Construction Co., Ltd. Helical dredge cutter head with scoop-in plates. 4,702,024, 10-27-87, Cl. 37-67.000.

Shibabuchi, Toshio: *See*—
Tajima, Takashi; Matsumoto, Kiyokazu; and Shibabuchi, Toshio, 4,674,775, Cl. 285-330.000.

Shibagaki, Masahiro: *See*—
Hazano, Shigeki; Shibagaki, Masahiro; Jyo, Hidetaka; Sensui, Reiichiro; Iwami, Munenori; and Suzuki, Noboru, 4,693,777, Cl. 156-345.000.

Shibagaki, Mikio: *See*—
Kitazawa, Yasuhide; Shibagaki, Mikio; and Usui, Motonori, 4,676,135, Cl. 84-94.00R.

Shibagaki, Taro; Ibe, Hiroyuki; Tamura, Toshifumi; Ozeki, Takeshi; and Hirayama, Yoichi, to Kabushiki Kaisha Toshiba. Information communication system. 4,704,715, 11-3-87, Cl. 370-50.000.

Shibagaki, Taro: *See*—
Ibe, Hiroyuki; and Shibagaki, Taro, 4,644,300, Cl. 331-111.000.

Shibahara, Kazuo: *See*—
Takahashi, Akira; Shibahara, Kazuo; Morimoto, Katsuhiro; Samma, Hiromasa; and Kubo, Kazuhiko, 4,647,499, Cl. 428-312.600.

Shibahara, Makoto: *See*—
Nakaho, Junichi; Kato, Shigeru; and Shibahara, Makoto, 4,693,558, Cl. 350-332.000.

Shibahara, Seiji; Okonogy, Tsuneo; Murai, Yasushi; Fukatsu, Shunzo; Niida, Taro; Christensen, Burton G.; and Wakazawa, Tadashi, to Merck & Co., Inc. 1-oxa-1-dethia-cephalosporin compounds and antibacterial agent comprising the same. 4,645,769, 2-24-87, Cl. 514-210.000.

Shibahara, Yoshihiko; and Ikema, Hideto, to Fuji Photo Film Co., Ltd. Color photographic material. 4,680,253, 7-14-87, Cl. 430-504.000.

Shibahashi, Yutaka; Nakasuji, Norikazu; Kataoka, Takashi; Inagaki, Hiroshi; Kito, Tutomu; Ozaki, Masaharu; Matunami, Nobuaki; Ishimura, Naoya; and Fujita, Katuyuki, to Pilot Ink Co., Ltd. Thermochromic textile material. 4,681,791, 7-21-87, Cl. 428-96.000.

Shibahata, Yasuji; Tsubota, Yasumasa; and Uno, Takaaki, to Nissan Motor Co., Ltd. Vehicle steering control system. 4,640,379, 2-3-87, Cl. 180-140.000.

Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, to Nissan Motor Co., Ltd. Steering control system for wheeled vehicle. 4,666,013, 5-19-87, Cl. 180-141.000.

Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, to Nissan Motor Co., Ltd. Four-wheel steering control system for vehicle. 4,705,131, 11-10-87, Cl. 180-140.000.

Shibahata, Yasuji: *See*—
Fukunaga, Yukio; Shibahata, Yasuji; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,705,130, Cl. 180-140.000.
Nakamura, Kenji; Shibahata, Yasuji; Fukunaga, Yukio; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,669,567, Cl. 180-140.000.
Nakata, Moritsune; Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Higuchi, Megumu; Aoyama, Yutaka; and Shibahata, Yasuji, 4,634,135, Cl. 280-90.000.

Shibai, Hiroshiro: *See*—
Miyashiro, Shigeyoshi; Kida, Takao; Shiio, Tsuyoshi; and Shibai, Hiroshiro, 4,642,335, Cl. 530-409.000.

Shibaike, Narito; Kikuya, Satoshi; and Minamide, Seiko, to Matsushita Electric Industrial Co., Ltd. Tape cassette. 4,648,000, 3-3-87, Cl. 360-132.000.

Shibamoto, Nobuji: *See*—
Tomita, Yukio; Wakabayashi, Takayuki; Matsuda, Mitsunobu; Shibamoto, Nobuji; and Yamashiro, Yoshihiro, 4,645,065, Cl. 198-573.000.

Shibamoto, Takeshi: *See*—
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; Ueno, Shoji; Komura, Makoto; and Shichijo, Shunichi, 4,660,099, Cl. 358-342.000.
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,660,100, Cl. 358-342.000.
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,692,816, Cl. 358-342.000.

Shibanai, Ichiro. Process for the preparation of insect repelling/killing film. 4,636,343, 1-13-87, Cl. 264-118.000.

Shibanai, Ichiro; and Nakamura, Kenji, to Japan Liquid Crystal Co., Ltd. Rust preventive and method for producing the same. 4,677,17[illegible] 6-30-87, Cl. 527-300.000.

Shibanai, Ichiro; Horikoshi, Koki; and Kato, Takashi. Crosslinking agent and process for the preparation of the same. 4,681,934, 7-21-87, Cl. 536-46.000.

Shibanai, Ichiro; and Nakamura, Kenji, to Japan Liquid Crystal Co., Ltd. Curing agent for epoxy resin and method for curing epoxy resin. 4,711,936, 12-8-87, Cl. 525-485.000.

Shibano, Tomishi; Kimura, Itsuo; and Maruchi, Sachio, to Sanyo-Kokusaku Pulp Co., Ltd. Pressure sensitive-adhesive tapes or sheets. 4,636,432, 1-13-87, Cl. 428-327.000.

Shibano, Yasuji, to Hosiden Electronics Co., Ltd. Printed circuit board connector. 4,660,920, 4-28-87, Cl. 339-176.0MP.

Shibano, Yasuji: *See*—
Iwasa, Yoshihiro; Masuda, Toru; and Shibano, Yasuji, 4,715,819, Cl. 439-31.000.
Masuda, Toru; and Shibano, Yasuji, 4,685,212, Cl. 29-876.000.

Shibanuma, Tadao; Nagano, Noriaki; Hara, Ryuichiro; Nakano, Kohji; Koda, Akio; Yamazaki, Atsuki; and Murakami, Yukiyasu, to Yamanouchi Pharmaceutical Co., Ltd. Cephalosporin compounds and salts thereof. 4,690,921, 9-1-87, Cl. 514-205.000.

Shibanuma, Tadao; Nakano, Kohji; Nagano, Noriaki; Murakami, Yukiyasu; Hara, Ryuichiro; Koda, Akio; and Yamazaki, Atsuki, to Yamanouchi Pharmacutical Co., Ltd. Process for preparing 3-substituted-methyl-3-cephem derivatives. 4,699,980, 10-13-87, Cl. 540-224.000.

Shibao, Hitoshi: *See*—
Nakagawa, Fumio; Nakamura, Kazuyoshi; Shibao, Hitoshi; Yoshimura, Hiroshi; Taki, Koichi; Inoue, Makoto; Hayashi, Eiji; Dejima, Fusao; and Kohara, Yuritoshi, 4,690,638, Cl. 432-81.000.

Shibasaki, Akio; and Iwasaki, Hirofumi, to Asahi Kasei Kogyo Kabushiki Kaisha. Nonwoven sheet having smooth filmy surface layer. 4,678,703, 7-7-87, Cl. 428-288.000.

Shibasaki, Hiromi: *See*—
Mouri, Hidemasa; Tohita, Michiaki; Eto, Naonobu; Kouno, Shunzo; Ohkura, Kosuke; Toganoh, Shigeo; Arai, Ryuichi; Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hiromi, 4,642,247, Cl. 427-214.000.

Shibasaki, Jun, to Toyoda Gosei Co., Ltd. Glass run for automobile door. 4,648,207, 3-10-87, Cl. 49-441.000.

Shibasaki, Makoto: *See*—
Takeuchi, Hideo; Kobayashi, Michiaki; and Shibasaki, Makoto, 4,703,691, Cl. 101-365.000.

Shibasaki, Masakatsu; Sodeoka, Mikiko; and Ogawa, Yuji, to Sagami Chemical Research Center. Bicyclo[3.3.0]octenylaldehyde derivatives. 4,644,068, 2-17-87, Cl. 549-214.000.

Shibasaki, Masakatsu; Mase, Toshiaki; Sodeoka, Mikiko; and Ogawa, Yuji, to Sagami Chemical Research Center. Bicyclo(3.3.0)octene derivatives. 4,681,951, 7-21-87, Cl. 549-214.000.

Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, to Mitsubishi Yuka Pharmaceutical Co., Ltd.; and Sagami Chemical Research Center. Pharmaceuticals containing prostaglandin I_2. 4,699,921, 10-13-87, Cl. 514-530.000.

Shibasaki, Masakatsu; and Iimori, Takamasa, to Sagami Chemical Research Center. β-N-substituted aminothiol ester and process for preparing the same. 4,709,064, 11-24-87, Cl. 556-418.000.

Shibasaki, Shigeru: *See*—
Shino, Satoshi; Sasahara, Akira; Ishikawa, Kiyoshi; Shibasaki, Shigeru; and Takashina, Shinji, 4,660,820, Cl. 271-9.000.

Shibasaki, Sohei; Iwasaki, Yasumasa; Ono, Noriki; Arai, Koichi; Maruyama, Koji; and Shimanari, Tatsumi, to Casio Computer Co., Ltd.; and Casio Electronics Manufacturing Co., Ltd. Image reproduction apparatus. 4,648,706, 3-10-87, Cl. 355-43.000.

Shibasaki, Sohei; Iwasaki, Yasumasa; and Ono, Noriki, to Casio Computer Co, Ltd.; and Casio Electronics Manufacturing Co., Ltd. Copying apparatus. 4,687,318, 8-18-87, Cl. 355-5.000.

Shibasaki, Takeshi, to Mitsubishi Denki Kabushiki Kaisha. Code transmission system character broadcasting receiver. 4,679,082, 7-7-87, Cl. 358-147.000.

Shibashita, Naoaki; Toriya, Hajime; Shimomura, Kiyoshi; Urushidani, Haruo; and Kaneko, Ryoichi, to Hitachi, Ltd. Method and an apparatus for starting a turbine having a shrinkage-fitted rotor. 4,688,385, 8-25-87, Cl. 60-646.000.

Shibata, Akihiro: *See*—
Nishikawa, Yoshihiro; Kanemitsu, Kimihiro; Katori, Tatsuhiko; Shibata, Akihiro; and Kukita, Kenichi, 4,684,719, Cl. 536-119.000.

Shibata, Akira, to Chugai Denki Kogyo K.K. Internal oxidized Ag-Sn system alloy contact materials. 4,636,270, 1-13-87, Cl. 148-431.000.

Shibata, Akira, to Chugai Denki Kogyo K.K. Internal oxidized Ag-SnO system alloy electrical contact materials. 4,647,322, 3-3-87, Cl. 148-431.000.

Shibata, Akira, to Chugai Denki Kogyo Kabushiki Kaisha. Internal oxidized Ag-Sn-In system alloy electrical contact composite. 4,672,008, 6-9-87, Cl. 428-673.000.

Shibata, Akira, to Chugai Denki Kogyo K.K. Method for preparing Ag-SnO system alloy electrical contact material. 4,680,162, 7-14-87, Cl. 419-21.000.

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Shibata, Chiyoji: *See*—
Kasai, Minoru; Oka, Takao; Takamagari, Munenori; Shibata, Chiyoji; and Nakamura, Minoru, 4,682,385, Cl. 17-45.000.

Shibata, Fukuo. Construction of single-phase electric rotating machine. 4,656,410, 4-7-87, Cl. 318-718.0Go.

Shibata, Haruo, to Kabushiki Kaisha Toshiba. Device for loading and ejecting a floppy disk into and from a magnetic disk drive. 4,656,542, 4-7-87, Cl. 360-97.000.

Shibata, Haruo, to Kabushiki Kaisha Toshiba. Loading/ejecting apparatus for floppy disc. 4,700,247, 10-13-87, Cl. 360-99.000.

Shibata, Haruo: *See*—
Iwama, Katsuaki; Takahashi, Mutsuo; and Shibata, Haruo, 4,705,986, Cl. 313-487.000.

Shibata, Hidenori: *See*—
Kon, Takao; Yano, Kensaku; Kakegawa, Masayuki; and Shibata, Hidenori, 4,688,098, Cl. 358-213.190.

Shibata, Hirochika: *See*—
Adachi, Yoshiharu; Nishimura, Takumi; Saito, Tadao; Shibata, Hirochika; Nakanishi, Nobuyasu; Shirai, Akira; and Noguchi, Noboru, 4,636,010, Cl. 303-115.000.
Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; Nomura, Yoshihisa; Noguchi, Noboru; and Shibata, Hirochika, 4,668,024, Cl. 303-119.000.
Nishimura, Takumi; and Shibata, Hirochika, 4,652,061, Cl. 303-116.000.

Shibata, Hirofumi: *See*—
Kato, Hideo; Matsushima, Masaaki; Matsuda, Keiko; and Shibata, Hirofumi, 4,677,042, Cl. 430-5.000.

Shibata, Hiroshi: *See*—
Kohara, Masanobu; Nakao, Shin; and Shibata, Hiroshi, 4,654,966, Cl. 29-840.000.
Sada, Takeshi; Kato, Hidetoshi; Shibata, Hiroshi; Mori, Kazumasa; Mayumi, Nobuo; Sato, Hirohide; Akita, Yoshio; and Tanaka, Shigeru, 4,665,354, Cl. 320-64.000.

Shibata, Hisanari: *See*—
Hirai, Shiro; Hirano, Hiroshi; Arai, Hirotoshi; Kiba, Yasuo; Shibata, Hisanari; Kusayanagi, Yoshikazu; Yotsuji, Minako; Hashiba, Kazuhiko; and Tanada, Kikuko, 4,643,849, Cl. 540-955.000.

Shibata, Hisashi: *See*—
Tamura, Hideo; Shibata, Hisashi; and Furuya, Kenji, 4,668,888, Cl. 310-233.000.

Shibata, Isamu: *See*—
Snimada, Kazuyuki; and Shibata, Isamu, 4,663,760, Cl. 372-31.000.

Shibata, Izumi, to Kabushiki Kaisha Kenwood. Recording/reproducing apparatus. 4,698,776, 10-6-87, Cl. 364-513.500.

Shibata, Jiro: *See*—
Ohashi, Ryota; Kawamura, Masahisa; and Shibata, Jiro, 4,637,482, Cl. 180-132.000.
Yamaoka, Kojiro; Azuma, Toshiro; Sakikawa, Shigenori; Shibata, Jiro; and Odagaki, Atsushi, 4,664,210, Cl. 180-132.000.

Shibata, Jun; and Serizawa, Hiroyuki, to Matsushita Electric Industrial Co., Ltd. Optoelectronic semiconductor device. 4,710,936, 12-1-87, Cl. 372-45.000.

Shibata, Junichi; and Kojima, Hiroshi, to Pioneer Ansafone Manufacturing Corporation. Microwave filter. 4,641,116, 2-3-87, Cl. 333-204.000.

Shibata, Katsuhiro: *See*—
Kawaguchi, Takeshi; Suzuki, Tsuguya; and Shibata, Katsuhiro, 4,641,731, Cl. 188-218.0XL.

Shibata, Kazuhiko: *See*—
Miki, Nobuaki; Nakamura, Shinya; and Shibata, Kazuhiko, 4,662,249, Cl. 74-869.000.

Shibata, Kazuyoshi; and Nishizawa, Hitoshi, to NGK Insulators, Ltd. Electrochemical element. 4,639,305, 1-27-87, Cl. 204-426.000.

Shibata, Kazuyoshi: *See*—
Mizutani, Yoshihiko; and Shibata, Kazuyoshi, 4,666,566, Cl. 204-1.00T.
Nishizawa, Hitoshi; and Shibata, Kazuyoshi, 4,634,514, Cl. 204-406.000.

Shibata, Kenji: *See*—
Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masatoshi; Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tamura, Yoshiaki; and Shimanuki, Takashi, 4,662,937, Cl. 75-80.000.
Kuroda, Hiroshi; Nishimura, Tsukasa; Nishimura, Masakatsu; Hashimoto, Taiki; Kanda, Osamu; Nozawa, Shigeru; and Shibata, Kenji, 4,687,649, Cl. 423-242.000.

Shibata, Kiyoshi; and Shigemura, Yutaka, to Mita Industrial Co., Ltd. Method and apparatus for feeding and conveying copying papers in a copying machine. 4,708,456, 11-24-87, Cl. 355-3.0SH.

Shibata, Kizo; and Dodo, Kazuo, to Mitsubishi Plastics Industries, Limited. Process for producing a heat-shrinkable polypropylene film. 4,649,009, 3-10-87, Cl. 264-235.800.

Shibata, Ko: *See*—
Kimata, Kei; Kato, Masahiro; and Shibata, Ko, 4,684,356, Cl. 464-111.000.

Shibata, Makiko: *See*—
Hirose, Sachio; Homma, Tammotsu; Kurihara, Takashi; Adachi, Hidenari; Sako, Yoshitaka; and Shibata, Makiko, 4,703,106, Cl. 530-307.000.

Shibata, Makoto: *See*—
Ikeda, Masami; Shibata, Makoto; Takahashi, Hiroto; and Matsuda, Hiroto, 4,686,544, Cl. 346-140.00R.
Washimi, Kouichi; Shibata, Makoto; and Ugajin, Mitsuyuki, 4,645,213, Cl. 277-53.000.

Shibata, Manabu; and Uragami, Akira, to Hitachi, Ltd. Integrated circuit having input and output drivers cascaded between I/O pads and internal circuitry. 4,683,384, 7-28-87, Cl. 307-475.000.

Shibata, Masaharu; Furuyama, Tsutomu; and Ohkoshi, Kazuo, to NHK Spring Co. Ltd. Coil-spring winding apparatus. 4,715,202, 12-29-87, Cl. 72-21.000.

Shibata, Masahiro, to Nippondenso Co., Ltd. Apparatus for determining the oxygen content in gases. 4,642,174, 2-10-87, Cl. 204-408.000.

Shibata, Masahiro; Tsujibayashi, Tatsuo; Sato, Hiroyuki; and Machida, Yoshinori, to Sony Corporation. Video and audio signal recording, reproducing and editing apparatus with replacement of viewed luminance signal component during insert audio editing mode. 4,682,245, 7-21-87, Cl. 358-311.000.

Shibata, Masamichi: *See*—
Kashima, Osamu; and Shibata, Masamichi, 4,658,774, Cl. 123-169.00E.

Shibata, Masanori: *See*—
Isaki, Mikio; Shibata, Masanori; and Harada, Norikazu, 4,689,701, Cl. 360-96.600.

Shibata, Masaru: *See*—
Onohara, Masayuki; Kawai, Kenji; Shibata, Masaru; Igarashi, Akira; and Kawaguchi, Nobuhisa, 4,686,124, Cl. 428-35.000.

Shibata, Masato; Eguchi, Mamoru; and Kondo, Yoshihito, to Shikoku Kakooki Co., Ltd. Container forming apparatus for packaging machine. 4,637,200, 1-20-87, Cl. 53-551.000.

Shibata, Michiyasu: *See*—
Kurama, Kenichiro; and Shibata, Michiyasu, 4,682,780, Cl. 279-79.000.

Shibata, Mitsuaki: *See*—
Takahashi, Haruji; Goto, Shigeo; Takata, Syuichi; Shibata, Mitsuaki; and Hata, Tomihira, 4,661,171, Cl. 148-6.350.

Shibata, Nobuho; Yasunobu, Isamu; Neki, Shigeo; Ohara, Kenichi; and Dohi, Takashi, to Matsushita Electric Industrial Co. Ltd. Circuit arrangement for controlling starting current of a motor. 4,682,095, 7-21-87, Cl. 318-778.000.

Shibata, Nobuho: *See*—
Dohi, Takashi; Shibata, Nobuho; and Ohara, Kenichi, 4,692,676, Cl. 318-269.000.
Neki, Shigeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Takashi, 4,676,180, Cl. 112-277.000.
Neki, Shigeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Takashi, 4,691,653, Cl. 112-275.000.
Neki, Shigeo; Ohara, Kenichi; Shibata, Nobuho; and Dohi, Takashi, 4,710,688, Cl. 318-603.000.

Shibata, Nobuo; Hirai, Akira; Nakajima, Jun; Mori, Kenji; and Akatsu, Toshio, to Hitachi, Ltd. Welding position detecting apparatus. 4,667,082, 5-19-87, Cl. 219-124.340.

Shibata, Norio; Takeda, Hideo; Sato, Tsunehiko; and Tanaka, Yasunori, to Fuji Photo Film Co., Ltd. Coating apparatus. 4,681,062, 7-21-87, Cl. 118-410.000.

Shibata, Norio, to Victor Company of Japan, Limited. Magnetic head with a film coil. 4,703,381, 10-27-87, Cl. 360-123.000.

Shibata, Noriyoshi: *See*—
Tamura, Toru; Shibata, Noriyoshi; and Kawakami, Toshiro, 4,639,148, Cl. 384-420.000.

Shibata, Sadao: *See*—
Hayashi, Torahiko; and Shibata, Sadao, 4,671,759, Cl. 425-294.000.

Shibata, Setsuo: *See*—
Sauda, Kenzo; Yokota, Akitoshi; Yagi, Takuro; Kuribayashi, Hiroshi; Kita, Saburo; Shibata, Setsuo; and Ogawa, Hirofusa, 4,661,290, Cl. 252-626.000.

Shibata, Shinya: *See*—
Masuzawa, Sigeaki; Shibata, Shinya; Miyazaki, Hiroshi; and Iwase, Tetsuo, 4,716,591, Cl. 381-51.000.

Shibata, Shoichi: *See*—
Komatsu, Teruaki; Kobayashi, Kiyoshi; Tatsu, Kunihiko; and Shibata, Shoichi, 4,695,065, Cl. 279-60.000.

Shibata, Susumu: *See*—
Sawai, Hideo; Kanamori, Takashi; Kuroki, Kenji; and Shibata, Susumu, 4,661,827, Cl. 346-76.0PH.

Shibata, Tadahiko: *See*—
Ito, Yuuji; Shibata, Tadahiko; Sakai, Masahiko; Ota, Yukio; Kondo, Naohiko; and Matuyama, Harukazu, 4,659,323, Cl. 493-457.000.
Yamaguchi, Yoshimitsu; Shibata, Tadahiko; Suzuki, Masanori; and Toda, Takezi, 4,690,349, Cl. 242-75.500.

Shibata, Takanori: *See*—
Endo, Akira; Takezaki, Jiro; Tsujii, Fumio; and Shibata, Takanori, 4,638,438, Cl. 364-449.000.
Hasegawa, Akira; Shibata, Takanori; and Hamano, Fumio, 4,654,890, Cl. 455-607.000.
Sasayama, Takao; Oho, Shigeru; Kanke, Atsushi; Shibata, Takanori; and Endo, Akira, 4,708,480, Cl. 356-350.000.
Tsujii, Fumio; Matsuoka, Yoji; Shibata, Takanori; Endo, Akira; and Shirai, Hiroshi, 4,679,147, Cl. 364-449.000.
Yoshikawa, Toshiharu; and Shibata, Takanori, 4,649,184, Cl. 526-279.000.

Shibata, Takashi; Yamada, Nobuo; Mada, Yoshikazu; and Iizima, Masaki, to Mitsuba Electric Manufacturing Co., Ltd. Molded commutator with enlarged diameter riser section. 4,705,977, 11-10-87, Cl. 310-235.000.

Shibata, Takeo; and Nagasawa, Kazumasa, to Kabushiki Kaisha Okawaraseisakusho. Method and apparatus of controlling granulation of moisture-absorbing powder material. 4,698,190, 10-6-87, Cl. 264-40.200.

Shibata, Takeshi: *See*—
Aono, Toshiaki; Nakamura, Koichi; Shibata, Takeshi; and Nakamura, Taku, 4,636,455, Cl. 430-203.000.

Shibata, Takuo: *See*—
Yamamoto, Toshiaki; Kako, Hiroyoshi; Shibata, Takuo; Izuo, Takashi; Kamimae, Hajime; and Takegawa, Hiroaki, 4,696,379, Cl. 188-299.000.

Shibata, Takuzo: *See*—
Hashimoto, Hitoshi; Shibata, Takuzo; Nagano, Teruo; Hara, Kozo; Kuwahara, Nobuhiro; and Yashiki, Ikuo, 4,659,583, Cl. 426-629.000.

Shibata, Tohru; and Okamoto, Ichiro, to Daicel Chemical Industries, Ltd. Agent for separation. 4,714,555, 12-22-87, Cl. 210-635.000.

Shibata, Tohru: *See*—
Inagaki, Hiroshi; Miyamoto, Takeaki; Ito, Hiraku; and Shibata, Tohru, 4,708,951, Cl. 514-57.000.
Ishii, Kunio; and Shibata, Tohru, 4,683,341, Cl. 568-366.000.

Shibata, Tomiichi: *See*—
Tanaka, Seietsu; and Shibata, Tomiichi, 4,663,833, Cl. 29-588.000.

Shibata, Tomoo, to Ricoh Electronics, Inc. Linerless thermal label printer and applicator. 4,707,211, 11-17-87, Cl. 156-354.000.

Shibata, Toru, to Tsuois Corporation. Injection moulding clamping apparatus for an injection moulding machine. 4,636,167, 1-13-87, Cl. 425-589.000.

Shibata, Toshihiro: *See*—
Kubota, Naohiro; Shibata, Toshihiro; and Nishimura, Atsushi, 4,684,680, Cl. 524-91.000.
Minagawa, Motonobu; Nakahara, Yutaka; Shibata, Toshihiro; and Arata, Ryozo, 4,673,701, Cl. 524-99.000.
Minagawa, Motonobu; Nakahara, Yutaka; Shibata, Toshihiro; and Arata, Ryozo, 4,698,381, Cl. 524-100.000.

Shibata, Tsugio: *See*—
Katayama, Toshikazu; Shibata, Tsugio; and Arimune, Hisao, 4,645,722, Cl. 428-694.000.

Shibata, Yasuo; Takehara, Hideaki; and Miyajima, Shin, to Victor Company of Japan Limited. Tin alloys for recording media. 4,704,326, 11-3-87, Cl. 428-336.000.

Shibata, Yasuo: *See*—
Miyamaru, Yukio; Kawada, Shigeo; Hatanaka, Kaoru; and Shibata, Yasuo, 4,644,318, Cl. 340-73.000.
Miyamaru, Yukio; Hatanaka, Kaoru; Kawada, Shigeo; and Shibata, Yasuo, 4,660,020, Cl. 340-134.000.

Shibata, Yoji, to Shin Nihon Koku Seibi Co., Ltd. Full length interlocking hinge for a folding door. 4,679,277, 7-14-87, Cl. 16-354.000.

Shibata, Yoshiaki: *See*—
Oonaka, Hidemi; Baika, Toyokazu; Shibata, Yoshiaki; Hori, Kingo; Sato, Yasushi; and Akiyama, Tomojiro, 4,656,992, Cl. 123-559.000.

Shibata, Yoshihisa: *See*—
Sakurai, Takashi; Mizuno, Hiroshi; and Shibata, Yoshihisa, 4,651,085, Cl. 324-58.50R.

Shibata, Yoshio, to Kabushikikaisha Barudan. Curved cloth stretch frame construction for an embroidery sewing machine. 4,665,844, 5-19-87, Cl. 112-103.000.

Shibata, Yoshio: *See*—
Yamashita, Kazuhisa; Shibata, Yoshio; and Komukai, Shigemi, 4,660,153, Cl. 364-513.500.

Shibata, Yukio, to Fuji Photo Film Co., Ltd. Feed device for magnetic head. 4,660,112, 4-21-87, Cl. 360-106.000.

Shibata, Yukio: *See*—
Watanabe, Yoshiyuki; and Shibata, Yukio, 4,686,593, Cl. 360-97.000.

Shibata, Yutaka: *See*—
Ohsawa, Yoshitaka; Shibata, Yutaka; Niwa, Shin-ichiro; Nishimura, Akira; and Uemiya, Takafumi, 4,708,833, Cl. 264-1.500.

Shibatani, Juichi: *See*—
Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,662,484, Cl. 188-73.450.
Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,678,064, Cl. 188-73.450.
Nishii, Michiharu; Furuta, Youichi; Tsubouchi, Kaoru; Murata, Takeo; Shibatani, Juichi; and Kiriyama, Takashi, 4,683,807, Cl. 92-169.000.

Shibayama, Shohei; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, to Kanto Ishi Pharmaceutical Co., Ltd. N-substituted neuraminic acid derivatives. 4,663,443, 5-5-87, Cl. 536-4.100.

Shibayama, Shohei; Matsuzaki, Yuzi; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, to Kanto Ishi Pharmaceutical Co., Ltd. Glycoside derivatives. 4,675,391, 6-23-87, Cl. 536-17.400.

Shibazaki, Kenji; Irie, Yutaka; Ito, Masazumi; and Murata, Tomoji, to Minolta Camera Kabushiki Kaisha. Copying magnification setting device for an electrophotographic copying apparatus. 4,644,498, 2-17-87, Cl. 364-900.000.

Shibazaki, Kenji: *See*—
Hamano, Hiroaki; and Shibazaki, Kenji, 4,657,380, Cl. 355-55.000.
Imaizumi, Masaru; Ito, Masazumi; and Shibazaki, Kenji, 4,634,262, Cl. 355-14.00R.

Shibazaki Seisakusho Ltd.: *See*—
Takayama, Hajime, 4,684,426, Cl. 156-220.000.

Shibazaki, Shigeru: *See*—
Kizaki, Masaharu; and Shibazaki, Shigeru, 4,671,634, Cl. 353-122.000.

Shibazaki, Teruo: *See*—
Kogane, Mikio; and Shibazaki, Teruo, 4,652,117, Cl. 355-72.000.
Kogane, Mikio; and Shibazaki, Teruo, 4,688,737, Cl. 242-67.10R.

Shibazaki, Toshimi; and Nakayama, Teruo, to Murata Kikai Kanushiki Kaisha. Spun yarn and method and apparatus for forming spun yarn. 4,711,080, 12-8-87, Cl. 57-207.000.

Shiber, Samuel: *See*—
Husted, Royce H., 4,645,475, Cl. 474-56.000.

Shibley, Paul W. M.: *See—*
Angelov, Georgi; and Shibley, Paul W. M., 4,634,520, Cl. 208-309.000.

Shibue, Kazuhisa: *See—*
Inumaru, Susumu; Yamauchi, Shigenori; Shibue, Kazuhisa; Sano, Hideo; and Ito, Kiyofumi, 4,676,830, Cl. 75-249.000.

Shibui, Michiro; Hanamoto, Yoshihiro; Ishigaki, Yoshio; Sahara, Hiroshi; Maeda, Satoru; and Noguchi, Yasushi, to Nippon Telegraph & Telephone Corporation, and Sony Corporation. Apparatus for displaying scrolling images. 4,694,406, 9-15-87, Cl. 364-518.000.

Shibukawa, Takeo: *See—*
Wachi, Masatada; and Shibukawa, Takeo, 4,703,680, Cl. 84-1.260.

Shibuki, Osamu; Matsuyama, Noboru; Nagasawa, Yoshiaki; Kawai, Katsuhiro; Sakagami, Shigeru; and Onoyama, Toshiaki, to Toyota Shatai Kabushiki Kaisha. Moving coil type linear motor. 4,641,065, 2-3-87, Cl. 318-135.000.

Shibuki, Osamu; Matsuyama, Noboru; Umemura, Yoichi; Kamiya, Atsushi; Fujii, Takaya; Seki, Masayuki; and Ohta, Norio, to Toyota Shatai Kabushiki Kaisha. Suspension device for vehicle seat. 4,664,352, 5-12-87, Cl. 248-562.000.

Shibusawa, Mitsuo, to Ricoh Company, Ltd. Split scanning copier. 4,696,563, 9-29-87, Cl. 355-8.000.

Shibusawa, Mitsuo: *See—*
Ito, Masaji; Midorikawa, Akira; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,682,158, Cl. 340-679.000.
Midorikawa, Akira; Ito, Masaji; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,677,310, Cl. 307-64.000.

Shibuta, Daisuke; Kobayashi, Shinichiro; Yoshizumi, Motohiko; and Arai, Hideo, to Mitsubishi Kinzoku Kabushiki Kaisha. Process for preparing a titanium oxide powder. 4,668,501, 5-26-87, Cl. 423-608.000.

Shibutani, Takao: *See—*
Wada, Masaru; Shimizu, Hirokazu; Shibutani, Takao; Itoh, Kunio; Hamada, Ken; and Teramoto, Iwao, 4,675,074, Cl. 156-647.000.

Shibuya America Corporation: *See—*
Hoffmann, Wolfgang W., 4,714,515, Cl. 156-450.000.

Shibuya, Hiromichi: *See—*
Ouchi, Teruo; and Shibuya, Hiromichi, 4,690,175, Cl. 138-131.000.

Shibuya, Hiroshi: *See—*
Aikawa, Shinichi; Shibuya, Hiroshi; Kato, Hideya; and Nishimoto, Akira, 4,700,249, Cl. 360-104.000.

Shibuya, Hisao; and Yusa, Tsunero, to Kamui Company Ltd. Method of manufacturing baffles for shell and tube type heat exchangers. 4,697,321, 10-6-87, Cl. 29-157.30R.

Shibuya, Ichiro: *See—*
Yoshino, Shigeru; Ueki, Junzo; Shibuya, Ichiro; Kawada, Shigeo; Iino, Akira; Tanzaki, Hiromasa; and Murano, Kazuo, 4,670,979, Cl. 29-838.000.

Shibuya, Ikutoshi: *See—*
Tachiki, Shigeo; Shibuya, Ikutoshi; Fujikura, Makoto; and Kakuta, Atsushi, 4,657,834, Cl. 430-58.000.

Shibuya, Kazunori, to Victor Company of Japan, Ltd. Lid locking mechanism for an automatic tape cassette loading and unloading apparatus. 4,680,654, 7-14-87, Cl. 360-96.500.

Shibuya, Kiyoshi: *See—*
Kawami, Shigeru; Tabu, Takashi; Ayano, Mitsutoshi; Shibuya, Kiyoshi; and Itoh, Shin-ichi, 4,677,669, Cl. 379-413.000.

Shibuya Kogyo Co., Ltd.: *See—*
Nakai, Kimimoto; and Umezaki, Isao, 4,697,590, Cl. 128-396.000.
Nakai, Rhyuichi, 4,675,499, Cl. 219-121.0LU.
Sawa, Shigeki; and Ueda, Hiroshi, 4,640,283, Cl. 128-395.000.
Yamamoto, Hisashi; and Konaka, Yukio, 4,673,381, Cl. 493-128.000.
Yoshida, Shigeru, 4,688,611, Cl. 141-91.000.

Shibuya, Kouji; and Imazeki, Chiharu, to Minolta Camera Kabushiki Kaisha. Thermal printer. 4,642,656, 2-10-87, Cl. 346-76.0PH.

Shibuya, Kunihiro; and Hara, Kunio, to Kabushiki Kaisha Toshiba. Image information input apparatus for inputting supplemental information to a copying machine. 4,644,391, 2-17-87, Cl. 358-75.000.

Shibuya, Kunihiro: *See—*
Uchida, Kohachi; Shibuya, Kunihiro; and Nakamura, Hajime, 4,678,314, Cl. 355-5.000.

Shibuya, Kunio: *See—*
Ohya, Masaki; Nishimoto, Yoshiharu; and Shibuya, Kunio, 4,699,846, Cl. 428-516.000.

Shibuya, Masanori, to Honda Giken Kogyo Kabushiki Kaisha. Oscillation control apparatus for oscillation type vehicle. 4,666,018, 5-19-87, Cl. 180-213.000.

Shibuya, Nobuhiro: *See—*
Yazaki, Takao; Hattori, Satoru; Hattori, Kazuhide; Matsuno, Takumi; Shibuya, Nobuhiro; Hayama, Kazuhide; and Itoh, Isao, 4,659,618, Cl. 428-317.700.

Shibuya, Nobuo: *See—*
Tabata, Mitsuo; and Shibuya, Nobuo, 4,642,468, Cl. 250-548.000.

Shibuya, Noriaki: *See—*
Maruyama, Toshio; Shibuya, Noriaki; and Nakata, Yukihiko, 4,714,868, Cl. 320-5.000.

Shibuya, Takashi: *See—*
Sakai, Shuzo; Shibuya, Takashi; and Miyake, Toshio, 4,652,640, Cl. 536-124.000.

Shibuya, Taro: *See—*
Kimura, Kazuo; and Shibuya, Taro, 4,650,293, Cl. 350-453.000.

Shibuya, Toshifumi: *See—*
Nishimura, Keizo; Kobayashi, Masaharu; Okamoto, Hiroo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi, 4,649,542, Cl. 371-39.000.
Okamoto, Hiroo; Kobayashi, Masaharu; Nishimura, Keizo; Noguchi, Takaharu; Arai, Takao; and Shibuya, Toshifumi, 4,677,622, Cl. 371-39.000.
Takahashi, Hiroaki; Kobayashi, Masaharu; Noguchi, Takaharu; Shibuya, Toshifumi; and Arai, Takao, 4,685,004, Cl. 360-32.000.

Shibuya, Tsunenori, to Diesel Kiki Co., Ltd. Double acting type compressor. 4,652,217, 3-24-87, Cl. 417-269.000.

Shibuya, Tsunenori; and Ishizuka, Yutaka, to Diesel Kiki Co., Ltd. Compressor having discharge valve means adapted to enhance the coefficient of performance of the compressor. 4,668,172, 5-26-87, Cl. 418-270.000.

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Shichi, Hiroyasu: *See—*
Tamura, Hifumi; Yamamoto, Shigehiko; Shichi, Hiroyasu; and Ishitani, Toru, 4,687,930, Cl. 250-309.000.
Tamura, Hifumi; and Shichi, Hiroyasu, 4,687,938, Cl. 250-423.00F.

Shichida, Akihito, to Hosiden Electronics Co. Ltd. Electrical jack assembly. 4,710,139, 12-1-87, Cl. 439-668.000.

Shichijo, Hisashi: *See—*
Womack, Richard H.; Banerjee, Sanjay K.; Shichijo, Hisashi; and Malhi, Satwinder, 4,713,678, Cl. 357-23.600.

Shichijo, Shunichi; Yamagishi, Tooru; and Machida, Toyotaka, to Victor Company of Japan, Ltd. Signal recording system for recording signals on a rotary recording medium. 4,656,528, 4-7-87, Cl. 358-342.000.

Shichijo, Shunichi: *See—*
Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Kobayashi, Yoshinao; Ishii, Kazuyoshi; and Hirata, Atsumi, 4,695,904, Cl. 358-342.000.
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Shichiri, Motoaki: *See—*
Abe, Hiroshi; Shichiri, Motoaki; Kawamori, Ryuzo; Ichoh, Tasuku; Iwatani, Kenji; Higuchi, Mamoru; Takagi, Kiyotaka; Okamoto, Norihiko; and Okudaira, Toshiyuki, 4,636,144, Cl. 417-63.000.

Shicoh Engineering Co., Ltd.: *See—*
Hirano, Norimitsu; and Ogawa, Masataka, 4,704,566, Cl. 318-254.000.
Miyao, Osami; Shiraki, Manabu; and Ohsaka, Masayuki, 4,707,645, Cl. 318-254.000.

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Shida, Junji, to Dainippon Screen Mfg. Co., Ltd. Method and system for recording a partially distorted image. 4,672,464, 6-9-87, Cl. 358-287.000.

Shida, Keizo: *See—*
Yoshida, Masaru; Asano, Masaharu; Kaetsu, Isao; Nakai, Katsuyuki; Yamanaka, Hidetoshi; Shida, Keizo; and Shiraishi, Akira, 4,652,443, Cl. 424-487.000.

Shida, Masami: *See—*
Amano, Matsuo; Shida, Masami; Sakamoto, Masahide; Hirayama, Takeshi; and Sasayama, Takao, 4,703,430, Cl. 364-431.050.
Kashimura, Yuichi; Sugiura, Noboru; Ishii, Toshio; Shida, Masami; Teragakiuchi, Akira; and Mouri, Yasunori, 4,676,212, Cl. 123-425.000.
Ohnari, Mikihiko; Funabashi, Motohisa; Shiova, Makoto; Sekozawa, Teruji; and Shida, Masami, 4,697,566, Cl. 123-479.000.
Sakamoto, Masahide; and Shida, Masami, 4,708,108, Cl. 123-339.000.

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Yamamoto, Hiromasa; Shida, Sankichi; and Todoroki, Tsunehiko, 4,696,100, Cl. 29-605.000.

Shida, Takafumi: *See—*
Aoki, Katsumichi; Shida, Takafumi; Kanda, Yoichi; Satake, Keigo; Shinkawa, Hiroyasu; and Yamazaki, Shiro, 4,650,515, Cl. 71-90.000.
Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, 4,690,704, Cl. 71-90.000.

Shidara, Hajime: *See—*
Kihara, Kazuhiko; Tsunekane, Kinichiro; Shidara, Hajime; and Makino, Tadashi, 4,653,674, Cl. 222-342.000.

Shidei, Ritsuko: *See—*
Echigo, Yoshiaki; Yamao, Mutsunori; Suematu, Yoshiyuki; Ishikura, Tadashi; Asami, Keiichi; and Shidei, Ritsuko, 4,640,971, Cl. 528-129.000.

Shieh, Chan-Long, to Siemens Corporate Research & Support, Inc. I^2L heterostructure bipolar transistors and method of making the same. 4,644,381, 2-17-87. Cl. 357-35.000.

Shieh, Han-Ping D.: *See*—
Kryder, Mark H.; and Shieh, Han-Ping D., 4,679,180, Cl. 369-13.000.

Shieh, Ming K., to Dresser Industries, Inc. Electro-inductive vibratory monitoring system. 4,677,353, 6-30-87, Cl. 318-128.000.

Shieh, Song-Huei. Retractile umbrella cover and knockdown umbrella stand. 4,700,847, 10-20-87, Cl. 211-62.000.

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Rogoff, Martin H.; and Shieh, Tsuong R., 4,716,039, Cl. 424-93.000.

Shieldalloy Corporation: *See*—
Murray, Peter; and Slinn, David, 4,648,901, Cl. 75-68.00R.

Shields, Charles E. Method and apparatus for applying two piece connector blocks to multiconductor cable. 4,641,427, 2-10-87, Cl. 29-857.000.

Shields, Charles E. Air discharge system for use with connector applying machines. 4,697,336, 10-6-87, Cl. 29-753.000.

Shields, Charles E. Disappearing shelf assembly for use in an electrical connector applying machine. 4,709,473, 12-1-87, Cl. 29-749.000.

Shields, Dean W. Log handling and sawing system. 4,665,786, 5-19-87, Cl. 83-364.000.

Shields, Edward P., to Westinghouse Electric Corp. Multiple fuel rod gripper. 4,651,400, 3-24-87, Cl. 29-426.500.

Shields, Gerald N.: *See*—
Cooper, Albert A.; and Shields, Gerald N., 4,662,030, Cl. 73-56.000.

Shields, John. Quantitative measurement of fat in dairy products. 4,663,530, 5-5-87, Cl. 250-339.000.

Shields, Kent: *See*—
Baugh, J. Dan; Shields, Kent; Yam, Yoke L.; and Wells, Larry, 4,653,761, Cl. 277-235.00B.

Shields, Stewart: *See*—
Straw, Alan; and Shields, Stewart, 4,695,451, Cl. 424-47.000.

Shields, Thomas A., to USM Corporation. Tack strip. 4,682,925, 7-28-87, Cl. 411-461.000.

Shields, William, to Environmental Air Control, Inc. Contamination control work station. 4,637,301, 1-20-87, Cl. 98-115.300.

Shields, William K. M.: *See*—
Kohn, Roger; and Shields, William K. M., 4,709,695, Cl. 128-132.00R.

Shiels, J. Michael. Lift/tilt-bed trailer. 4,673,328, 6-16-87, Cl. 414-471.000.

Shiffler, Donald A., to Du Pont de Nemours, E. I., and Company. Water-dispersible synthetic fiber. 4,713,289, 12-15-87, Cl. 428-361.000.

Shiffler, Donald A.: *See*—
Clark, John T.; and Shiffler, Donald A., 4,707,407, Cl. 428-361.000.

Shifrin, George D.: *See*—
Schultz, Thomas G.; Gross, Andrew; Pappas, Barbara; Shifrin, George D.; and Mack, Lois, 4,713,780, Cl. 364-514.000.

Shifrin, Gordon A., to Hughes Aircraft Company. Spectral analyzer and direction indicator. 4,674,871, 6-23-87, Cl. 356-73.000.

Shifrin, Gordon A.; and Hunsperger, Robert G., to Hughes Aircraft Company. Forming monolithic planar opto-isolators by selective implantation and proton bombardment. 4,677,740, 7-7-87, Cl. 29-576.00B.

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Shiga, Akinobu; Sasaki, Toshio; and Kojima, Junpei, to Sumitomo Chemical Company, Limited. Process for producing olefin polymer. 4,645,808, 2-24-87, Cl. 526-119.000.

Shiga, Akinobu; Kakugo, Masahiro; Kozima, Junpei; and Wakatsuki, Kizuku, to Sumitomo Chemical Company, Limited. Process for producing propylene copolymer. 4,696,979, 9-29-87, Cl. 525-247.000.

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Sasaki, Toshio; Katao, Masaaki; Kawai, Kiyoshi; and Shiga, Akinobu, 4,672,050, Cl. 502-116.000.

Shiga, Ikuo. Diamond cutter. 4,665,887, 5-19-87, Cl. 125-15.000.

Shiga, Koji. Method of photographing on microfilm and apparatus therefor. 4,701,046, 10-20-87, Cl. 355-39.000.

Shiga, Masaaki: *See*—
Hosaka, Shuroku; and Shiga, Masaaki, 4,691,260, Cl. 360-121.000.

Shiga, Minoru: *See*—
Samejima, Yasushi; Shiga, Minoru; Kano, Toshiji; and Kishi, Takamichi, 4,643,808, Cl. 204-98.000.

Shiga, Norio, to Tokyo Juki Industrial Co., Ltd. Stabilizing device for hammer bounding at printers. 4,643,600, 2-17-87, Cl. 400-157.200.

Shiga, Takuo; Nabeta, Kazuo; Nakano, Hiroyuki; and Suzuki, Toshimitsu, to Pola Chemical Industries Inc. Method for dermatological application. 4,661,519, 4-28-87, Cl. 514-547.000.

Shiga, Tatsuhide: *See*—
Doki, Yoshikuni; Fujiwara, Masatoshi; Shiga, Tatsuhide; Shono, Yohsuke; Tanaka, Mikio; and Tsuruoka, Yoshihiro, 4,649,359, Cl. 335-222.000.
Fujiwara, Masatoshi; Kuroda, Masato; and Shiga, Tatsuhide, 4,712,173, Cl. 364-138.000.

Shiga, Toshihiro: *See*—
Noda, Masaru; and Shiga, Toshihiro, 4,638,352, Cl. 358-44.000.

Shigaki, Takao, to Fuji Photo Film Co., Ltd. Method of determining exposures. 4,693,596, 9-15-87, Cl. 355-77.000.

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Terashita, Takaaki; and Shigaki, Takao, 4,668,082, Cl. 355-77.000.

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Shigei, Tetsuro: *See*—
Ogawa, Hiroyasu; Shigei, Tetsuro; Sugeno, Hiroshi; and Ichimaru, Kazuhiro, 4,671,950, Cl. 423-447.100.

Shigekane, Hisao, to Fuji Electric Co., Ltd. Compound diverse transistor switching circuit. 4,651,035, 3-17-87, Cl. 307-570.000.

Shigeki, Kimura: *See*—
Ryohei, Yamamoto; Shigeki, Kimura; and Akira, Matsuura, 4,692,330, Cl. 424-85.000.

Shigeki, Kiyoshi; and Nakajima, Takao, to Toyoda Gosei Co., Ltd. Weather strip for vehicle and producing method thereof. 4,676,856, 6-30-87, Cl. 156-201.000.

Shigemasa, Takashi; and Ichikawa, Yoshinori, to Kabushiki Kaisha Toshiba. Process control apparatus with process dependent switching between process control modes. 4,641,235, 2-3-87, Cl. 364-149.000.

Shigemasa, Takashi, to Kabushiki Kaisha Toshiba. Dynamic error compensating process controller. 4,679,136, 7-7-87, Cl. 364-150.000.

Shigematsu, Hisashi: *See*—
Toyooka, Katsuji; and Shigematsu, Hisashi, 4,648,027, Cl. 364-184.000.

Shigematsu, Kazuo: *See*—
Kaku, Toshimitsu; Kataoka, Keiji; Tsunoda, Yoshito; and Shigematsu, Kazuo, 4,656,618, Cl. 369-112.000.
Sugiyama, Hisataka; Shigematsu, Kazuo; Maeda, Takeshi; Saitoh, Atsushi; and Takasugi, Wasao, 4,646,103, Cl. 346-1.100.
Terao, Motoyasu; Miyauchi, Yasushi; Shigematsu, Kazuo; and Horigome, Shinkichi, 4,637,976, Cl. 430-523.000.

Shigematsu, Takashi; Watanabe, Tomoyuki; Tokoro, Setsuo; and Sawada, Daisaku, to Toyota Jidosha Kabushiki Kaisha. Power transmission for use in automobiles having continuously variable transmission. 4,715,258, 12-29-87, Cl. 74-866.000.

Shigematsu, Takashi: *See*—
Obayashi, Hideki; Kawai, Hisasi; Ina, Toshikazu; Shigematsu, Takashi; Tokoro, Setsuo; and Kohama, Tokio, 4,691,286, Cl. 364-431.040.
Tokoro, Setsuo; Shigematsu, Takashi; and Watanabe, Tomoyuki, 4,673,378, Cl. 474-18.000.
Watanabe, Tomoyuki; Shigematsu, Takashi; Tokoro, Setsuo; and Hayashi, Takashi, 4,715,482, Cl. 192-0.032.

Shigematsu, Toshifumi: *See*—
Ikenaga, Takao; Shigematsu, Toshifumi; Hamanaka, Tatsumi; and Hirahara, Manabu, 4,667,350, Cl. 4-304.000.
Taki, Masaru; Okada, Hiroshi; Kawamura, Seijiro; Kusumoto, Akio; Morita, Koji; Ikenaga, Takao; Shigematsu, Toshifumi; and Iida, Masami, 4,692,951, Cl. 4-664.000.

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Shigemitsu, Hideyuki: *See*—
Kishida, Kazuo; Kawasaki, Hiroshi; and Shigemitsu, Hideyuki, 4,665,125, Cl. 525-67.000.

Shigemoto, Hiromi; Yamamoto, Akio; and Suzuki, Iwatoshi, to Mitsui Petrochemical Industries, Ltd. Flat die neck-in control device. 4,693,677, 9-15-87, Cl. 425-376.00R.

Shigemura, Tatsuhiko: *See*—
Takenaka, Hiroyuki; Shigemura, Tatsuhiko; Waseda, Masashi; Miura, Toshiaki; Hoshino, Noriyuki; and Nakashima, Mitsunori, 4,704,034, Cl. 356-429.000.

Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, to Mita Industrial Co., Ltd. Electrostatic copying apparatus. 4,642,448, 2-10-87, Cl. 219-216.00.

Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, to Mita Industrial Co., Ltd. Temperature detector. 4,650,347, 3-17-87, Cl. 374-141.000.

Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, to Mita Industrial Co., Ltd. Electrostatic copying apparatus. 4,668,075, 5-26-87, Cl. 355-14.0SH.

Shigemura, Yutaka; Makiura, Yoshinori; and Ishito, Mitsuya, to Mita Industrial Co. Ltd. Controlling method of a copying machine. 4,671,643, 6-9-87, Cl. 355-3.0FU.

Shigemura, Yutaka: *See*—
Hisajima, Masahiko; Shigemura, Yutaka; Makiura, Yoshinori; and Ishito, Mitsuya, 4,673,283, Cl. 355-14.0SH.
Shibata, Kiyoshi; and Shigemura, Yutaka, 4,708,456, Cl. 355-3.0SH.

Shigenaga, Yoshimi, to Casio Computer Co., Ltd. Identification system. 4,710,613, 12-1-87, Cl. 235-380.000.

Shigenai, Osamu; Saito, Yukio; Gunji, Kunihiko; Shimaoka, Motohiro; Hirose, Yasuyuki; and Okita, Masao, to Alps Electric Co. Ltd. Recording and reproducing device for magnetic disc including a head damping device. 4,672,490, 6-9-87, Cl. 360-105.000.

Shigenai, Osamu: *See*—
Takeda, Kuninobu; and Shigenai, Osamu, 4,661,869, Cl. 360-97.00.

Shigenari, Ryoichi: *See*—
Ogano, Takeo; Komatsuzaki, Takeshi; Shigenari, Ryoichi; and Uesugi, Naomoto, 4,694,942, Cl. 192-13.00A.

Shigenobu, Michio; and Saito, Takashi, to Canon Kabushiki Kaisha. Image forming apparatus. 4,693,587, 9-15-87, Cl. 355-3.0FU.

Shigeru, Yamada: *See*—
Teruo, Hiyoshi; Koutaro, Mizuno; and Shigeru, Yamada, 4,646,608, Cl. 84-1.010.

Shigesada, Masaaki; and Kazama, Norio, to Nissan Motor Co., Ltd. Removably pivoted rear parcel shelf for hatchback type vehicle. 4,648,648, 3-10-87, Cl. 296-37.160.

Shigesou, Hashida: *See*—
Nobuo, Kawahigashi; Shigesou, Hashida; and Yasunobu, Kojima, 4,710,331, Cl. 264-41.000.

Shigeta, Kunio; Yamamoto, Yoko; and Takahashi, Jiro, to Konishiroku Photo Industry Co., Ltd. Image forming process for electrophotography. 4,637,973, 1-20-87, Cl. 430-122.000.

Shigeta, Masami: *See*—
Whitfield, Terry B.; and Shigeta, Masami, 4,669,444, Cl. 124-16.000.

Shigeta, Masao: *See*—
Takayama, Suguru; and Shigeta, Masao, 4,637,843, Cl. 420-73.000.

Shigeta, Masatomo; Fukuda, Hiroyuki; Kaji, Hisatsugu; and Saitoh, Kuniyuki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Fuel cell electrode substrate incorporating separator as an intercooler and process for preparation thereof. 4,664,988, 5-12-87, Cl. 429-44.000.

Shigeta, Masatomo; Saitoh, Kuniyuki; and Fukuda, Hiroyuki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Porous fuel cell electrode substrate having elongated holes for feeding reactant gases. 4,666,755, 5-19-87, Cl. 428-188.000.

Shigeta, Masatomo; Saitoh, Kuniyuki; and Fukuda, Hiroyuki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for producing electrode substrate for use in fuel cells. 4,687,607, 8-18-87, Cl. 264-29.500.

Shigeta, Masatomo: *See*—
Fukuda, Hiroyuki; Shigeta, Masatomo; Kaji, Hisatsugu; and Saitoh, Kuniyuki., 4,686,072, Cl. 264-29.500.
Kaminaga, Tetsuo; Shigeta, Masatomo; and Fukuda, Hiroyuki, 4,675,094, Cl. 204-294.000.

Shigeta, Shiro: *See*—
Fukuda, Tamotsu; Shigeta, Shiro; Okuya, Hiroaki; Kuroiwa, Yasuyuki; and Sudo, Tadashi, 4,702,910, Cl. 424-92.000.

Shigeta, Tadao. Gasified fuel combustion apparatus. 4,687,436, 8-18-87, Cl. 431-173.000.

Shigeta, Yuko: *See*—
Ando, Hirohito; Takada, Zenji; and Shigeta, Yuko, 4,711,674, Cl. 106-289.000.

Shigetomi, Akira: *See*—
Matsuda, Shuichi; and Shigetomi, Akira, 4,661,426, Cl. 430-5.000.

Shigetomi, Tsuyoshi; and Inoue, Kazuo, to J.D.M. Ltd., Co. Device for judging brilliancy of precious stones such as diamonds or the like. 4,647,194, 3-3-87, Cl. 356-30.000.

Shigeura, Junichi: *See*—
Yagi, Shigeichi; and Shigeura, Junichi, 4,709,194, Cl. 318-52.000.

Shigeyama, Yukinori: *See*—
Murata, Toyo-o; Narita, Hiroshi; Shigeyama, Yukinori; and Nishikawa, Mazumi, 4,688,772, Cl. 266-158.000.

Shigi, Toshio: *See*—
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Shighara, Akira: *See*—
Ochiai, Hideo; Shighara, Akira; and Ohyama, Takashi, 4,671,782, Cl. 474-93.000.

Shigyo, Naoyuki: *See*—
Ikoma, Toshiaki; Maeda, Hajime; Yanai, Hisayoshi; Dang, Ryo; and Shigyo, Naoyuki, 4,636,824, Cl. 357-23.140.
Konaka, Masami; Shigyo, Naoyuki; and Dang, Ryo, 4,651,411, Cl. 29-576.00W.

Shih-Cheng, Tseng. Portable and simple barbecue spit structure. 4,691,626, 9-8-87, Cl. 99-421.00H.

Shih-Chin, Shao, to Holmes Products Corp. Tiltable and adjustably oscillatable portable electric heater/fan. 4,703,152, 10-27-87, Cl. 219-370.000.

Shih, David H.: *See*—
Christensen, Burton G.; and Shih, David H., 4,696,923, Cl. 514-210.000.

Shih, Kun M.: *See*—
Brundidge, Steven P.; Brodfuehrer, Paul R.; Sapino, Chet, Jr.; Shih, Kun M.; and Walker, Donald G., 4,714,760, Cl. 540-222.000.

Shih, Kwang K.: *See*—
Aviram, Ari; and Shih, Kwang K., 4,692,044, Cl. 400-241.100.
Crowe, Jesse R.; Dove, Derek B.; and Shih, Kwang K., 4,699,533, Cl. 400-241.100.

Shih, Lisa B.; Primus, Frederick J.; and Goldenberg, Milton D., to Center for Molecular Medicine & Immunology. Tumoricidal methotrexate-antibody conjugate. 4,699,784, 10-13-87, Cl. 424-85.000.

Shih, Peng. Foldable toilet-seat for children. 4,635,303, 1-13-87, Cl. 4-254.000.

Shih, Stuart S.: *See*—
Angevine, Philip J.; Chu, Yung F.; Mitchell, Kenneth M.; Oleck, Stephen M.; Shih, Stuart S.; and Wilson, Robert C., Jr., deceased, 4,696,732, Cl. 208-111.000.
Graziani, Kenneth R.; Kyan, Chwan P.; Shih, Stuart S.; and Sowiak, Raymond M., 4,695,364, Cl. 208-59.000.

Shih, Tzyy Z. Fire escape device. 4,712,645, 12-15-87, Cl. 182-5.000.

Shih, Yen-Jer; Tsai, John (Ji-Hsiung); Chiao, Wen B.; and Ray-Chaudhuri, Dilip K., to National Starch and Chemical Corporation. Inverse emulsions. 4,690,996, 9-1-87, Cl. 527-312.000.

Shih, Yen-Jer: *See*—
Iovine, Carmine P.; Shih, Yen-Jer; and Foreman, Paul B., 4,668,730, Cl. 524-460.000.

Shihabi, David S., to Mobil Oil Corporation. Conversion of olefins and paraffins to higher hydrocarbons. 4,642,404, 2-10-87, Cl. 585-415.000.

Shiho, Masahiko; and Sato, Yasunori, to Fujitsu Limited. Method of manufacture of plastic molding. 4,676,941, 6-30-87, Cl. 264-247.000.

Shiiba, Yoshio; Koshigaya, Akira; and Kimura, Kouichi, to Honda Giken Kogyo Kabushiki Kaisha. Heavy-object loading jig. 4,643,630, 2-17-87, Cl. 414-589.000.

Shiibayashi, Masao, to Hitachi, Ltd. Scroll fluid machine with oil injection part and oil relieving passage. 4,648,814, 3-10-87, Cl. 418-55.000.

Shiibayashi, Masao, to Hitachi, Ltd. Scroll-type compressor for helium gas. 4,676,075, 6-30-87, Cl. 62-469.000.

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Nakamura, Hitoshi; Shiiki, Kasuo; Yuito, Isamu; Shiroishi, Yoshihiro; Fujiwara, Hideo; Shinagawa, Kiminari; and Iijima, Akemi, 4,636,897, Cl. 360-119.000.

Shiiki, Kazuo; Shiroishi, Yoshihiro; Yuito, Isamu; Shinagawa, Kiminari; and Fujiwara, Hideo, to Hitachi, Ltd. Thin-film magnetic head. 4,651,248, 3-17-87, Cl. 360-119.000.

Shiiki, Zenya: *See*—
Iizuka, Yo; Iwasaki, Takao; Katto, Takayuki; and Shiiki, Zenya, 4,645,826, Cl. 528-388.000.
Katto, Takayuki; Komatsu, Yasumasa; and Shiiki, Zenya, 4,636,553, Cl. 525-67.000.
Katto, Takayuki; Komatsu, Yasumasa; and Shiiki, Zenya, 4,701,495, Cl. 525-75.000.

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Shiina, Tadashi: *See*—
Ozawa, Masakazu; Ozawa, Kunitaka; Hatanaka, Katsunori; Suzuki, Tetsuo; Mori, Tetsuzo; Shiina, Tadashi; and Ebinuma, Ryuichi, 4,651,173, Cl. 346-136.000.

Shiina, Takanori: *See*—
Kawanabe, Tomohiko; Shiina, Takanori; Asakura, Masahiko; and Kimura, Katsuhiko, 4,649,882, Cl. 123-438.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Shiina, Takanori; Matsumoto, Yukihiro; and Muroya, Minoru, 4,690,121, Cl. 123-589.000.
Kawanabe, Tomohiko; Asakura, Masahiko; Kushida, Noritaka; Shiina, Takanori; and Muroya, Minoru, 4,705,012, Cl. 123-589.000.

Shiino, Satoru: *See*—
Takabayashi, Kuniaki; Takaoka, Yoshitsugu; Hori, Kouichi; Shimotakahara, Masaki; Okada, Kikujiro; and Shiino, Satoru, 4,710,161, Cl. 494-84.000.

Shiio, Tsuyoshi: *See*—
Miyashiro, Shigeyoshi; Kida, Takao; Shiio, Tsuyoshi; and Shibai, Hiroshiro, 4,642,335, Cl. 530-409.000.

Shijima, Kouichi: *See*—
Katoh, Akira; Ida, Masatoshi; Shijima, Kouichi; Oishi, Makoto; Hashimoto, Akihiko; and Takahashi, Shinya, 4,641,215, Cl. 360-35.100.

Shikada, Minoru; Yamazaki, Shuntaro; and Fujita, Sadao, to NEC Corporation. FSK laser transmitting apparatus. 4,700,352, 10-13-87, Cl. 372-20.000.

Shikada, Minoru, to NEC Corporation. Bidirectional optical communication system. 4,704,741, 11-3-87, Cl. 455-606.000.

Shikada, Minoru: *See*—
Minemura, Kouichi; Shikada, Minoru; and Emura, Katsumi, 4,706,300, Cl. 455-619.000.

Shikakura, Kunio: *See*—
Shimada, Satoshi; Kitamura, Nobuo; Shikakura, Kunio; and Maeda, Namio, 4,683,491, Cl. 358-56.000.

Shikama, Shinsuke: *See*—
Fujita, Teruo; Kono, Keizo; Kondo, Mitsushige; and Shikama, Shinsuke, 4,672,187, Cl. 250-201.000.

Shikama, Toshihiro; Ota, Takahisa; Ishizaka, Michihiro; Kira, Hirofumi; Horiguchi, Akira; and Kooi, Yuji, to Mitsubishi Denki Kabushiki Kaisha. Loop transmission method. 4,685,105, 8-4-87, Cl. 370-86.000.

Shikamori, Tamotsu; Toshimitsu, Hiroyuki; Ohsugi, Hiroshi; Hiyama, Isao; and Fukuzawa, Soichi, to Hitachi, Ltd. Fully automatic washing machine. 4,691,538, 9-8-87, Cl. 68-12.00R.

Shikanai, Satoshi: *See*—
Inaba, Michihiko; Kanto, Masaharu; Shikanai, Satoshi; and Ohtake, Yasuhisa, 4,665,338, Cl. 313-402.000.

Shikano, Hiroshi: *See*—
Hamano, Tsutomu; and Shikano, Hiroshi, 4,702,629, Cl. 400-56.000.

Shikata, Hiroaki; Turner, Jerry; Hirotsu, Dennis O.; and Burnett, Susan E., to Procter & Gamble Company, The. Disposable diaper featuring crotch tensioning means for improved leakage resistance and fit. 4,661,102, 4-28-87, Cl. 604-385.00A.

Shikata, Hiroshi, to Tokyo Shibaura Denki Kabushiki Kaisha. Cutting tool. 4,636,116, 1-13-87, Cl. 407-103.000.

Shikata, Hiroshi, to Kabushiki Kaisha Toshiba. Cutting tool. 4,636,117, 1-13-87, Cl. 407-104.000.

Shikata, Hiroshi, to Kabushiki Kaisha Toshiba. Cutting tool. 4,692,070, 9-8-87, Cl. 407-104.000.

Shikata, Nobuo: *See*—
Kikuchi, Kaoru; and Shikata, Nobuo, 4,711,707, Cl. 204-145.00R.

Shikaumi, Masao, to Canon Kabushiki Kaisha. Length measuring device. 4,695,149, 9-22-87, Cl. 354-430.000.

Shiki, Kazuhiro; and Iura, Takao, to Toyota Jidosha Kabushiki Kaisha. Fuel cut-off device for internal combustion engine. 4,638,781, 1-27-87, Cl. 123-493.000.

Shiki, Takeshi: *See*—
Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,686,852, Cl. 73-61.00R.

Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,715,719, Cl. 366-2.000.

Shikibo Ltd.: *See*—
Udaka, Shigezo; Ueyama, Hideo; Taniguchi, Junichi; and Adachi, Keiji, 4,656,037, Cl. 424-118.000.

Shikishima Canvas Kabushiki Kaisha: *See*—
Ota, Toyokazu; Nakamura, Yutaka; Ikeda, Yutaka; Kataoka, Shunzi; and Ito, Yoshinobu, 4,639,291, Cl. 162-207.000.
Ota, Toyokazu; and Nakamura, Yutaka, 4,639,292, Cl. 162-375.000.

Shikishima Starch Manufacturing Co., Ltd.: *See*—
Ogawa, Hiroshi; and Kanno, Tomoei, 4,668,813, Cl. 558-147.000.

Shikoku Chemicals Corporation: *See*—
Kamagata, Kazuo; Yamada, Toshiaki; and Sawa, Natsuo, 4,658,009, Cl. 528-109.000.

Shikoku Denryoku Kabushiki Kaisha: *See*—
Ishikawa, Fumihiko, 4,697,136, Cl. 323-267.000.
Takahashi, Masahide; Sakai, Seiichi; Masada, Osamu; Ukawa, Masaru; and Onishi, Hamao, 4,636,931, Cl. 363-71.000.

Shikoku Kaken Kogyo Kabushiki Kaisha: *See*—
Motoki, Hideo, 4,683,019, Cl. 156-293.000.

Shikoku Kakooki Co., Ltd.: *See*—
Joo, Katsuhiro, 4,633,645, Cl. 53-282.000.
Koike, Mitsuhiro; Saijo, Yoshihiro; and Kume, Tadaaki, 4,708,707, Cl. 493-313.000.
Kondo, Yoshihito, 4,650,455, Cl. 493-454.000.
Shibata, Masato; Eguchi, Mamoru; and Kondo, Yoshihito, 4,637,200, Cl. 53-551.000.
Shimokawa, Masao; and Tada, Yoshio, 4,659,415, Cl. 156-379.700.
Ueda, Kazuo; and Joo, Katsuhiro, 4,669,627, Cl. 220-94.00R.

Shikoku Keisoku Kogyo Kabushiki Kaisha: *See*—
Takahashi, Masahide; Sakai, Seiichi; Masada, Osamu; Ukawa, Masaru; and Onishi, Hamao, 4,636,931, Cl. 363-71.000.

Shiley Inc.: *See*—
Edelman, William; Naghieh, Hamid R.; and Constantinou, Dennis, 4,657,014, Cl. 128-303.100.
Edelman, William, 4,681,104, Cl. 128-303.100.
Lubock, Paul; and Sullivan, Mike, 4,679,556, Cl. 128-303.00R.
Noda, Wayne A., 4,653,577, Cl. 165-71.000.
Seiler, Louis, Jr.; and Rosenbluth, Robert F., 4,647,416, Cl. 264-118.000.
Zupkas, Paul F.; Servas, Francis M.; Pavlov, Todor; and Kelly, Steven G., 4,642,089, Cl. 604-4.000.

Shill, David, to Thermoguard Equipment Inc. Corrugated sheet unstacking and feeding apparatus. 4,700,941, 10-20-87, Cl. 271-151.000.

Shilling, Steve A.: *See*—
Baron, Donna M.; Espenlaub, David E.; Haines, Vicki A.; Inberg, Gerald A.; Shilling, Steve A.; Truesdale, James B.; and Willett, Robert J., 4,635,187, Cl. 364-200.000.

Shillington, Richard A., to Med-Safe Systems, Inc. Swivel top closure for phlebotomy container. 4,667,821, 5-26-87, Cl. 206-366.000.

Shillington, Richard A.; and Oberschmidt, Alec, to Med-Safe Systems, Inc. Hospital in-room disposable container. 4,702,385, 10-27-87, Cl. 220-18.000.

Shilo, Moshe; and Fattom, Ali, to Solmat Systems, Ltd. Polymeric substance, and method of separating and culturing bacteria to provide polymeric substance useful in liquid clarification and soil conditioning. 4,649,110, 3-10-87, Cl. 435-68.000.

Shilo, Moshe; and Fattom, Ali, to Solmat Systems, Ltd.; and Yissum Research Development Company of the Hebrew University of Jerusalem. Cyanobacterium-produced bioemulsifier composition and solution thereof. 4,693,842, 9-15-87, Cl. 252-356.000.

Shiloh, Adam; Shiloh, Peretz J.; and Shiloh, Avraham. Machine for cutting, bending and forming axial lead components. 4,633,919, 1-6-87, Cl. 140-105.000.

Shiloh, Avraham: *See*—
Shiloh, Adam; Shiloh, Peretz J.; and Shiloh, Avraham, 4,633,919, Cl. 140-105.000.

Shiloh, Peretz J.: *See*—
Shiloh, Adam; Shiloh, Peretz J.; and Shiloh, Avraham, 4,633,919, Cl. 140-105.000.

Shilton, Brian: *See*—
Ulrich, Helmut; Bartscher, Peter; and Shilton, Brian, 4,679,865, Cl. 303-52.000.

Shim-A-Line, Inc.: *See*—
Specktor, John; and Specktor, Gerald A., 4,641,855, Cl. 280-661.000.
Specktor, John; and Specktor, Gerald A., 4,684,150, Cl. 280-661.000.

Shim, Hyun J. Roller skate. 4,711,458, 12-8-87, Cl. 280-11.220.

Shim, Kyung S.; Toy, Arthur D. F.; and Heather, James B., to Stauffer Chemical Company. Method for converting carboxylic acid groups to trichloromethyl groups. 4,634,771, 1-6-87, Cl. 546-286.000.

Shim, Sang C.: *See*—
Alper, Howard; Shim, Sang C.; and Smith, David J. H., 4,661,619, Cl. 560-100.000.

Shima, Atsushi; and Sasaki, Takao, to Fanuc Ltd. Numerical control apparatus. 4,667,294, 5-19-87, Cl. 364-474.000.

Shima, Hideaki, to Sharp Kabushiki Kaisha. Video contour correction system. 4,665,432, 5-12-87, Cl. 358-166.000.

Shima, Hideharu: *See*—
Sakakibara, Yuichi; Takahashi, Yukio; and Shima, Hideharu, 4,691,140, Cl. 313-486.000.

Shima Idea Center Co., Ltd.: *See*—
Shima, Masahiro, 4,637,227, Cl. 66-75.100.
Shima, Masahiro, 4,637,228, Cl. 66-75.100.

Shima, Junkoh: *See*—
Sato, Akira; Sato, Kazuo; Saito, Takaharu; Shima, Junkoh; Mizutani, Kansei; and Mikawa, Toshimasa, 4,713,767, Cl. 364-453.000.

Shima, Masahiro, to Shima Idea Center Co., Ltd. Flat knitting machine having compound needles. 4,637,227, 1-20-87, Cl. 66-75.100.

Shima, Masahiro, to Shima Idea Center Co., Ltd. Flat knitting machine having compound needles. 4,637,228, 1-20-87, Cl. 66-75.100.

Shima, Seiya: *See*—
Kurosawa, Toshiaki; Shima, Seiya; Ando, Takeki; Inaba, Hiroshi; Nakashima, Hajime; and Mine, Toshisuke, 4,636,932, Cl. 363-54.000.
Ueda, Shigeta; Hombu, Mitsuyuki; Honda, Kazuo; Ueda, Akiteru; Suzuki, Katsunori; and Shima, Seiya, 4,672,520, Cl. 363-37.000.

Shimada, Akihiro: *See*—
Ito, Takato; Shimada, Akihiro; and Uchiyama, Kimio, 4,656,56[illegible] Cl. 361-433.000.

Shimada, Fumio: *See*—
Teshima, Manami; Tsuchino, Hisanori; Takeuchi, Hiroshi; and Shimada, Fumio, 4,654,533, Cl. 250-484.100.
Toyoda, Yasuhiro; Shimada, Fumio; and Yoshida, Katsumi, 4,660,952, Cl. 354-246.000.
Toyoda, Yasuhiro; Shimada, Fumio; and Yoshida, Katsumi, 4,692,009, Cl. 354-246.000.

Shimada, Hiroshi: *See*—
Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, 4,709,890, Cl. 249-20.000.

Shimada, Jiroh; and Morito, Hiroshi, to NEC Corporation. Data comparison circuit constructed with smaller number of transistors. 4,694,274, 9-15-87, Cl. 340-146.200.

Shimada, Junichi: *See*—
Ito, Toshiyasu; Mori, Takaaki; Minoura, Jun; and Shimada, Junichi, 4,664,934, Cl. 427-38.000.
Mochida, Kenichi; Ogasa, Takehito; Shimada, Junichi; Hirai, Tadashi; Sato, Kiyoshi; and Okachi, Ryo, 4,640,919, Cl. 514-241.000.

Shimada, Kaoru: *See*—
Hanazaki, Masayuki; Harada, Noriyuki; and Shimada, Kaoru, 4,655,951, Cl. 252-70.000.
Yoshizawa, Junji; Tsuchiya, Yoshimi; Hirayama, Yukio; Shimada, Kaoru; Mino, Nobuyuki; Nakamichi, Kyoko; and Matsumoto, Ikuo, 4,668,799, Cl. 514-252.000.

Shimada, Katsura: *See*—
Kanda, Hisashi; Naruo, Susumu; Morifuji, Kazuhiko; Kawai, Yuzo; Sakai, Takashi; Kawada, Takeshi; Shimada, Katsura; Tsuneda, Mitsuo, 4,670,953, Cl. 28-185.000.

Shimada, Katsuyuki, to Kinki Insatsu Kabushiki Kaisha. Device for opening seal of cigaret package and pulling out cigarets from package. 4,709,811, 12-1-87, Cl. 206-254.000.

Shimada, Kazuaki: *See*—
Kamiwada, Minoru; Saruwatari, Kazuyuki; Shimada, Kazuaki; Higashizima, Harumi, 4,680,116, Cl. 210-282.000.

Shimada, Kazuyuki; and Shibata, Isamu, to Ricoh Company, Ltd. Semiconductor laser output control device. 4,663,760, 5-5-87, 372-31.000.

Shimada, Kazuyuki, to Ricoh Company, Ltd. Method of generating image scanning clock signals in an optical scanning device. 4,675,[illegible] 6-30-87, Cl. 250-235.000.

Shimada, Kazuyuki: *See*—
Mochimaru, Hideaki; Shimada, Kazuyuki; and Hirasawa, Jun, 4,703,334, Cl. 346-160.000.

Shimada, Kiyoshi, to Nissan Motor Co., Ltd. Flexible coupling absorbing axial and rotational impact. 4,655,728, 4-7-87, 464-28.000.

Shimada, Kizashi; Akiyama, Tatsuo; and Koshino, Yutaka, to Kabushiki Kaisha Toshiba. Method of fabricating Schottky gate-type GaAs field effect transistor. 4,700,455, 10-20-87, Cl. 437-39.000.

Shimada, Kouji: *See*—
Hasegawa, Katsumi; Yasuda, Toshio; and Shimada, Kouji, 4,674,694, Cl. 242-43.00R.

Shimada, Makoto, to Tachikawa Spring Co., Ltd. Welt in a seat and method of making same. 4,650,251, 3-17-87, Cl. 297-452.000.

Shimada, Makoto, to Tachikawa Spring Co., Ltd. Method for assembling a seat back. 4,715,916, 12-29-87, Cl. 156-245.000.

Shimada, Masaaki; Saito, Koji; and Midorikawa, Yoshiaki, to Kagaku Kogyo Kabushiki Kaisha. Process for continuously distributing fibrous material and apparatus therefor. 4,705,702, 11-10-87, 427-180.000.

Shimada, Masaki: *See*—
Murai, Yoshio; Shiozawa, Kazuo; and Shimada, Masaki, 4,67[illegible] Cl. 358-227.000.

Shimada, Masami, to Brother Kogyo Kabushiki Kaisha. Sewing machine driving system. 4,714,039, 12-22-87, Cl. 112-275.000.

Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, to Ricoh Company, Ltd. Aqueous ink composition for ink jet-recording. 4,6[illegible] 3-3-87, Cl. 106-22.000.

Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, to Ricoh Company, Ltd. Aqueous ink composition. 4,711,668, 12-8-87, 106-22.000.

Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kakuji; Tamotsu; and Uemura, Hiroyuki, to Ricoh Company, Ltd. A[illegible]

ink composition for ink jet recording. 4,713,113, 12-15-87, Cl. 106-22.000.
Shimada, Masashi: *See*—
Kaiya, Mitsuhiro; Denda, Masaki; Shimada, Masashi; Ohnuki, Hideki; and Ogura, Mineo, 4,660,052, Cl. 346-76.0PH.
Shimada, Minoru: *See*—
Ida, Mitsuru; and Shimada, Minoru, 4,661,565, Cl. 360-96.600.
Shimada, Mitsuhiro; Matsumoto, Junichiro; Nonaka, Susumu; and Sayama, Haruo, to Sharp Kabushiki Kaisha. Heat-transfer thermal recording device. 4,710,041, 12-1-87, Cl. 400-120.000.
Shimada, Mitsuhiro: *See*—
Oba, Seisuke; Mikami, Tsutomu; Suzuki, Hideyuki; Shimada, Mitsuhiro; and Suzuki, Tadashi, 4,706,141, Cl. 360-96.500.
Shimada, Naohiro: *See*—
Motegi, Nawoto; Watanabe, Yukio; Shimada, Naohiro; and Okajima, Masaki, 4,691,321, Cl. 372-46.000.
Shimada, Satoru: *See*—
Kanazawa, Hirotaka; Takatani, Teruhiko; Furutani, Shigeki; Chikuma, Isamu; Shimada, Satoru; and Eda, Hiroshi, 4,646,867, Cl. 180-140.000.
Shimada, Satoshi; Kitamura, Nobuo; Shikakura, Kunio; and Maeda, Namio, to Sony Corporation. Display system comprising a plurality of display cells arranged in an X-Y matrix and a plurality of horizontal-extending blinds disposed adjacent the upper edges of the display cells in the rows of the matrix. 4,683,491, 7-28-87, Cl. 358-56.000.
Shimada, Satoshi; and Watanabe, Yuji, to Sony Corporation. Very large color video matrix display apparatus with constant-current display cells driven by pulse-width-modulated video signals. 4,686,575, 8-11-87, Cl. 358-240.000.
Shimada, Satoshi; Kawakami, Kanji; Tadauchi,, Masaharu; and Nishihara, Motohisa, to Hitachi, Ltd. Image sensor. 4,689,652, 8-25-87, Cl. 357-30.000.
Shimada, Satoshi: *See*—
Ohkoshi, Akio; Tsuruta, Koji; Nakagawa, Hideaki; and Shimada, Satoshi, 4,710,765, Cl. 340-781.000.
Yamada, Kazuji; Kobayashi, Yutaka; Kawakami, Kanji; Shimada, Satoshi; Tanabe, Masanori; and Kobori, Shigeyuki, 4,670,969, Cl. 29-576.00E.
Shimada, Shigeru; Nishimatsu, Masaharu; Arioka, Hiroyuki; and Kubota, Yuichi, to TDK Corporation. Magnetic recording medium. 4,678,708, 7-7-87, Cl. 428-336.000.
Shimada, Susumu: *See*—
Katou, Yukio; Suzuki, Takehiro; and Shimada, Susumu, 4,711,316, Cl. 180-168.000.
Shimada, Takeo; Kimura, Tsutomu; and Hayashi, Ryoichi, to Fuji Photo Film Co., Ltd. Printing and trimming apparatus. 4,645,334, 2-24-87, Cl. 355-40.000.
Shimada, Takeo: *See*—
Yamamoto, Soichiro; and Shimada, Takeo, 4,639,409, Cl. 430-505.000.
Shimada, Tatsuo; Chida, Yoshinori; and Tada, Satoru, to Seikosha Co., Ltd. Impact type dot printer. 4,643,596, 2-17-87, Cl. 400-121.000.
Shimada, Tatsuro: *See*—
Yagi, Akira; and Shimada, Tatsuro, 4,662,416, Cl. 152-209.00R.
Shimada, Toshikazu: *See*—
Maruyama, Eiichi; Fujikura, Makoto; Matsubara, Hirokazu; and Shimada, Toshikazu, 4,672,015, Cl. 430-57.000.
Muramatsu, Shinichi; Shimada, Toshikazu; Matsubara, Sunao; Itoh, Haruo; and Nakamura, Nobuo, 4,642,412, Cl. 136-244.000.
Shimada, Toshio: *See*—
Inagaki, Takashi; Shimada, Toshio; and Yoshimoto, Tokuji, 4,685,428, Cl. 123-52.00A.
Shimada, Tsutomu, to Canon Kabushiki Kaisha. Recorder. 4,651,165, 3-17-87, Cl. 346-76.0PH.
Shimada, Yasuhisa: *See*—
Ohno, Satoru; and Shimada, Yasuhisa, 4,697,187, Cl. 342-358.000.
Shimada, Yoshikatsu, to Nihon Shuno System Kabushiki Kaisha. Prefabricated furniture. 4,660,901, 4-28-87, Cl. 312-111.000.
Shimada, Yoshio: *See*—
Tanaka, Fumihiro; Shimada, Yoshio; Yamaguchi, Kaneo; Matsushima, Kenichi; and Watanabe, Shinya, 4,713,691, Cl. 358-148.000.
Watanabe, Shinya; Tanaka, Fumihiro; Yamaguchi, Kaneo; Shimada, Yoshio; and Matsushima, Kenichi, 4,713,690, Cl. 358-148.000.
Shimada, Yukio; Ohata, Yutaka; Takeoka, Takahisa; and Katoh, Toyotoshi, to Nissan Motor Co., Ltd. Cooling system for radiator and condenser of vehicles with an air conditioner and method of operating the same. 4,658,595, 4-21-87, Cl. 62-179.000.
Shimada, Yutaka; Hatanai, Takashi; Mukasa, Koichi; and Nakashima, Keishi, to Alps Electric Co., Ltd. Magnetic head. 4,641,213, 2-3-87, Cl. 360-125.000.
Shimadzu Corporation: *See*—
Akiyama, Osamu, 4,697,924, Cl. 356-333.000.
Ando, Osamu, 4,668,092, Cl. 356-332.000.
Fukuma, Toshiaki, 4,710,024, Cl. 356-328.000.
Ishida, Yasuo; Fujiwara, Michihiko; Kinoshita, Toshio; and Nimura, Noriyuki, 4,670,403, Cl. 436-90.000.
Kita, Yasuo, 4,654,524, Cl. 250-231.0SE.
Kita, Yasuo, 4,696,380, Cl. 192-4.00A.
Kita, Yasuo, 4,715,266, Cl. 91-488.000.
Komoto, Akira; and Shimauchi, Kunio, 4,666,005, Cl. 177-180.000.
Kumazawa, Yoshihiko; and Matsuyama, Tsunekazu, 4,661,909, Cl. 364-414.000.
Nishimura, Takashi, 4,703,437, Cl. 364-498.000.
Nishioka, Hiroyuki; and Nakanishi, Takeshi, 4,658,413, Cl. 378-99.000.
Oka, Syotaro; Tahara, Shu; and Kobayashi, Junya, 4,696,796, Cl. 422-88.000.
Sato, Tatsuo; and Tokimoto, Shingo, 4,656,489, Cl. 346-76.0PH.
Tawada, Yoshihisa; Nakayama, Takehisa; Tai, Masahiko; and Ikuchi, Nozomu, 4,664,890, Cl. 422-186.050.
Shimagaki, Makoto: *See*—
Zanma, Jun; Nishimura, Yoshinori; Shyoji, Kazuo; Shimagaki, Makoto; and Nakajima, Yoichi, 4,714,592, Cl. 422-192.000.
Shimaguchi, Takashi; Natori, Tatsuo; Watanabe, Akihide; and Koike, Keiichi, to Hitachi, Ltd. Slip casting forming method and mold. 4,659,526, 4-21-87, Cl. 264-86.000.
Shimakawa, Chitoshi: *See*—
Takenaka, Shinji; Oi, Ryu; and Shimakawa, Chitoshi, 4,684,449, Cl. 204-75.000.
Shimakura, Yoshiteru: *See*—
Shimizu, Toshihide; Kaneko, Ichiro; Watanabe, Mikio; and Shimakura, Yoshiteru, 4,708,890, Cl. 427-230.000.
Shimamiya, Yukio; Narumo, Kinzo; and Ebihara, Hiroshi, to Honda Tsushin Kogyo Kabushiki Kaisha. Connector apparatus for a printed circuit base board. 4,639,066, 1-27-87, Cl. 339-132.00B.
Shimamoto, Grant T.: *See*—
Bentle, Larry A.; Mitchell, James W.; Storrs, Stephen B.; and Shimamoto, Grant T., 4,694,073, Cl. 530-399.000.
Shimamoto, Hideki; Miyazaki, Yoshio; Aoshima, Yoichi; Tsunetsugu, Tsuyoshi; Nagara, Hisao; Kuwae, Yoshiteru; and Shiono, Kazushi, to Matsushita Electric Industrial Co., Ltd.; and Sanyo Chemical Industries, Ltd. Non-aqueous liquid electrolyte for electrolytic capacitors and electrolytic capacitors using same. 4,652,968, 3-24-87, Cl. 361-319.000.
Shimamoto, Kouichirou: *See*—
Sumi, Takao; Matoba, Takashi; Shimamoto, Kouichirou; and Inako, Yoshihide, 4,662,966, Cl. 156-230.000.
Shimamoto, Kozo: *See*—
Uchikawa, Fusaoki; Takeuchi, Morihisa; Shimamoto, Kozo; Miyao, Kunihiko; Momiyama, Kimio; and Watarai, Hisao, 4,673,910, Cl. 338-35.000.
Shimamoto, Mamoru: *See*—
Onogi, Nobuyoshi; and Shimamoto, Mamoru, 4,681,082, Cl. 123-643.000.
Shimamoto, Susumu: *See*—
Ando, Toshinari; Takahashi, Yoshikazu; Nishi, Masataka; Shimamoto, Susumu; Aihara, Katsuzo; and Tada, Naofumi, 4,652,697, Cl. 174-128.00S.
Sakamoto, Setsu; Nakagawa, Yasuhiro; Yamauchi, Isamu; Zaizen, Takashi; Suzuki, Katsumi; Shimamoto, Susumu; and Nakajima, Hideo, 4,675,156, Cl. 420-34.000.
Shimamoto, Yoshiharu: *See*—
Murakami, Chikara; Nakajima, Atsushi; Shimamoto, Yoshiharu; and Takahashi, Hiroshi, 4,652,780, Cl. 310-90.500.
Shimamune, Takayuki: *See*—
Asano, Hiroshi; Shimamune, Takayuki; and Matsumoto, Yukiei, 4,668,531, Cl. 427-58.000.
Shimamura, Akira: *See*—
Abe, Kazuo; and Shimamura, Akira, 4,648,828, Cl. 425-288.000.
Shimamura, Haruo; Kobayashi, Hideo; and Asakura, Masahiko, to Honda Giken Kogyo Kabushiki Kaisha. Device for controlling the increased fuel supply for engines. 4,683,860, 8-4-87, Cl. 123-492.000.
Shimamura, Isao: *See*—
Watanabe, Hiroshi; Shimamura, Isao; Abe, Masao; and Mizusawa, Masashi, 4,659,439, Cl. 204-37.600.
Shimamura, Masaharu: *See*—
Yoshikawa, Seiichi; Yoshioka, Toshio; and Shimamura, Masaharu, 4,700,723, Cl. 131-334.000.
Yoshioka, Toshio; Yoshikawa, Seiichi; and Shimamura, Masaharu, 4,693,828, Cl. 210-679.000.
Shimamura, Morihiko, to Jidosha Kiki Co., Ltd. Flow control device. 4,650,159, 3-17-87, Cl. 251-263.000.
Shimamura, Takeo; Uchino, Hiroshi; and Kurosawa, Ryoichi, to Kabushiki Kaisha Toshiba. Reactive power compensation apparatus. 4,698,581, 10-6-87, Cl. 323-211.000.
Shimamura, Takeo: *See*—
Kurosawa, Ryoichi; and Shimamura, Takeo, 4,652,989, Cl. 363-161.000.
Shimamura, Toshiki; and Hayakawa, Kiyonori, to Sony Corporation. Magnetic transducer head. 4,635,153, 1-6-87, Cl. 360-125.000.
Shimamura, Tsutau: *See*—
Saito, Masashi; Shimamura, Tsutau; Henmi, Kojiro; and Kyushima, Hiroki, 4,671,645, Cl. 355-3.00R.
Shimamura, Yoshinori, to Canon Kabushiki Kaisha. Exposure apparatus and method. 4,707,609, 11-17-87, Cl. 250-492.100.
Shimanari, Tatsumi: *See*—
Shibasaki, Sohei; Iwasaki, Yasumasa; Ono, Noriki; Arai, Koichi; Maruyama, Koji; and Shimanari, Tatsumi, 4,648,706, Cl. 355-43.000.
Shimano, Akio: *See*—
Otsuki, Tatsuo; Shimano, Akio; Aoki, Hiromitsu; and Aoki, Ikuko, 4,712,023, Cl. 307-450.000.
Shimano, Akira, to Murata Kikai Kabushiki Kaisha. Rotor with yarn guide for open-end spinning. 4,642,981, 2-17-87, Cl. 57-414.000.
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Furomoto, Yoshiyuki, 4,634,079, Cl. 242-219.000.
Furomoto, Yoshiyuki, 4,638,958, Cl. 242-84.10R.
Furomoto, Yoshiyuki, 4,648,566, Cl. 242-213.000.
Morimoto, Shinichi, 4,658,531, Cl. 43-1.700.
Myojo, Seiji, 4,649,661, Cl. 43-18.100.
Nagano, Masashi, 4,635,759, Cl. 188-24.220.
Nagano, Masashi, 4,637,273, Cl. 74-489.000.
Nagano, Masashi, 4,637,809, Cl. 474-80.000.
Nagano, Masashi, 4,642,072, Cl. 474-82.000.
Nagano, Masashi, 4,670,000, Cl. 474-80.000.
Nagano, Masashi, 4,674,617, Cl. 192-113.00B.
Nagano, Masashi, 4,675,952, Cl. 24-483.000.
Nagano, Masashi, 4,690,662, Cl. 474-69.000.
Nagano, Masashi, 4,690,663, Cl. 474-80.000.
Nagano, Masashi, 4,692,131, Cl. 474-80.000.
Nagano, Masashi, 4,700,588, Cl. 74-594.400.
Nakajima, Hideki, 4,650,135, Cl. 242-84.52B.
Nakajima, Hideki, 4,676,452, Cl. 242-84.52B.
Sato, Jun, 4,651,949, Cl. 242-217.000.
Sato, Jun, 4,681,276, Cl. 242-84.10R.
Yoshikawa, Osamu, 4,696,437, Cl. 242-84.50A.

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Shimano, Shizuo: *See*—
Kato, Shoichi; Shimano, Shizuo; Hayaoka, Tatsumi; and Masui, Akio, 4,652,574, Cl. 514-347.000.
Yoshida, Hiroshi; Konishi, Kenji; Koike, Kengo; Nakagawa, Taizo; Shimano, Shizuo; and Mochizuki, Seiji, 4,690,934, Cl. 514-354.000.

Shimano, Tadahiko: *See*—
Nagaoka, Kazuo; Isobe, Tomoichi; Kanasugi, Toshihiko; Suzuki, Nobuyuki; Wakabayashi, Sadao; Uchida, Kenji; Tsukamoto, Hideharu; Ohno, Mitsuru; and Shimano, Tadahiko, 4,649,648, Cl. 33-125.00R.

Shimano, Yasunobu: *See*—
Okano, Tamon; Kumobayashi, Hidenori; Akutagawa, Susumu; Kiji, Jitsuo; Konishi, Hisatoshi; Fukuyama, Kenichi; and Shimano, Yasunobu, 4,705,895, Cl. 564-15.000.

Shimanski, Michael A.: *See*—
Palmer, Emery A.; Shimanski, Michael A.; Ellison, Thomas M.; and Everidge, Jack P., 4,678,690, Cl. 428-31.000.

Shimanuki, Machio: *See*—
Hattori, Toshiaki; and Shimanuki, Machio, 4,706,142, Cl. 360-105.000.

Shimanuki, Takashi: *See*—
Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masatoshi; Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tamura, Yoshiaki; and Shimanuki, Takashi, 4,662,937, Cl. 75-80.000.

Shimanuki, Yasushi: *See*—
Tomizawa, Kenji; Shimanuki, Yasushi; and Sassa, Koichi, 4,664,742, Cl. 156-607.000.
Tomizawa, Kenji; Sassa, Koichi; and Shimanuki, Yasushi, 4,704,257, Cl. 422-249.000.

Shimaoka, Keiichi: *See*—
Sugiyama, Jun; Komatsubara, Hirofumi; Shimaoka, Keiichi; Takeuchi, Masaharu; and Takeuchi, Takashi, 4,697,460, Cl. 73-862.360.

Shimaoka, Motohiro; and Saito, Yukio, to Alps Electric Co., Ltd. Recording and reproducing apparatus including a cassette loading detecting device. 4,646,176, 2-24-87, Cl. 360-97.000.

Shimaoka, Motohiro; and Saito, Yukio, to Alps Electric Co., Ltd. Recording and reproducing apparatus having sliding loading and unloading mechanism. 4,647,996, 3-3-87, Cl. 360-97.000.

Shimaoka, Motohiro; and Watanabe, Makoto, to Alps Electric Co., Ltd. Magnetic disk drive. 4,654,734, 3-31-87, Cl. 360-99.000.

Shimaoka, Motohiro; and Saito, Yukio, to Alps Electric Co., Ltd. Recording and reproducing apparatus including a cassette loading device. 4,685,011, 8-4-87, Cl. 360-97.000.

Shimaoka, Motohiro; and Saito, Yukio, to Alps Electric Co., Ltd. Construction for positioning photosensor devices. 4,704,525, 11-3-87, Cl. 250-239.000.

Shimaoka, Motohiro; and Saito, Yukio, to Alps Electric Co., Ltd. Disk loading mechanism for recording and reproducing apparatus. 4,710,829, 12-1-87, Cl. 360-97.000.

Shimaoka, Motohiro: *See*—
Shigenai, Osamu; Saito, Yukio; Gunji, Kunihiko; Shimaoka, Motohiro; Hirose, Yasuyuki; and Okita, Masao, 4,672,490, Cl. 360-105.000.

Shimaoka, Shinji; and Yamamoto, Koichi, to Mazda Motor Corporation. Fail-safe gear-shifting control system for an automatic transmission. 4,667,541, 5-26-87, Cl. 74-866.000.

Shimaoka, Shoei: *See*—
Inoue, Fumio; Eto, Masahiro; Shimaoka, Shoei; and Sakai, Noboru, 4,641,195, Cl. 358-242.000.

Shimasaki, Hidematsu: *See*—
Yoshida, Tatsuro; Shimasaki, Hidematsu; Minamizono, Takahisa; and Ochi, Katsura, 4,670,490, Cl. 524 115.000.

Shimasaki, Hiroshi: *See*—
Yokota, Yutaka; and Shimasaki, Hiroshi, 4,636,684, Cl. 313-412.000.

Shimase, Akira; Yamaguchi, Hiroshi; Haraichi, Satoshi; and Miyauchi, Tateoki, to Hitachi, Ltd. Apparatus for ion beam work. 4,683,378, 7-28-87, Cl. 250-492.200.

Shimase, Akira: *See*—
Miyauchi, Tateoki; Yamaguchi, Hiroshi; Hongo, Mikio; Mizukoshi, Katsuro; Shimase, Akira; and Satoh, Ryohei, 4,687,939, Cl. 250-492.200.

Shimata, Makoto: *See*—
Asano, Kazuhiko; Takezoe, Osamu; Yasuda, Yoshinori; Hayashi, Kenji; Aoki, Masanobu; Doi, Yoshio; and Shimata, Makoto, 4,648,918, Cl. 148-439.000.

Shimatani, Ryoichi: *See*—
Kojima, Koichi; Jujo, Akihiro; Okabayashi, Masanori; Shimatani, Ryoichi; Toyama, Kenji; and Kanzaki, Nobuyoshi, 4,681,672, Cl. 204-129.400.
Kunugihara, Hiromu; Shimatani, Ryoichi; Kitamura, Satoru; Okamura, Kazuo; and Kanzaki, Nobuyoshi, 4,671,858, Cl. 204-129.750.

Shimatani, Toshimichi; and Kawata, Yoshihiro, to Iwatsu Electric Co., Ltd. Data transmission circuit. 4,694,470, 9-15-87, Cl. 375-37.000.

Shimauchi, Kunio: *See*—
Komoto, Akira; and Shimauchi, Kunio, 4,666,005, Cl. 177-180.000.

Shimauchi, Yoshiki; and Hirochi, Katsuji, to Fujitsu Limited. Gate array LSI device using PNP input transistors to increase the switching speed of TTL buffers. 4,689,502, 8-25-87, Cl. 307-443.000.

Shimazaki, Ayako, to Kabushiki Kaisha Toshiba. Method and apparatus for decomposing semiconductor thin film. 4,634,497, 1-6-87, Cl. 156-646.000.

Shimazaki, Hirato: *See*—
Ozaki, Haruhiko; Yamada, Tadatoshi; Machida, Kunio; Ohno, Kiyoshi; Shimazaki, Hirato; Inoue, Hidekimi; and Uji, Ryohei, 4,713,686, Cl. 358-107.000.

Shimazaki, Kenji, to Toho Beslon Co., Ltd. Active carbon fibers and filter adsorption unit for water purification comprising said fibers. 4,696,742, 9-29-87, Cl. 210-287.000.

Shimazaki, Norihiko: *See*—
Nakaguti, Osamu; Shimazaki, Norihiko; Kawai, Yoshio; Hashimoto, Masashi; and Nakatuka, Michie, 4,694,054, Cl. 514-228.000.

Shimazaki, Takashi: *See*—
Kohyama, Mitsuaki; Kasai, Toshihiro; Ishida, Haruhiko; and Shimazaki, Takashi, 4,645,330, Cl. 355-14.00R.

Shimazaki, Takeshi: *See*—
Akahoshi, Haruo; Murakami, Kanji; Wajima, Motoyo; Kogawa, Kiyonori; Toba, Ritsuji; and Shimazaki, Takeshi, 4,642,161, Cl. 156-630.000.
Suzuki, Yoshihiro; Satoh, Nobuhiro; Wajima, Motoyo; Narahara, Toshikazu; and Shimazaki, Takeshi, 4,661,417, Cl. 428-607.000.

Shimazaki, Tatsuo: *See*—
Endoh, Kenji; Narui, Fumio; Sugiyama, Kazuhiro; Hara, Kazuya; and Shimazaki, Tatsuo, 4,668,314, Cl. 156-64.000.
Sugiyama, Kazuhiro; and Shimazaki, Tatsuo, 4,680,724, Cl. 364-708.000.

Shimazaki, Toru; Watanabe, Yoshihiko; and Iwaoka, Hideto, to Yokogawa Electric Corporation; and Yokogawa Medical Systems, Limited. Automatic gain control apparatus for NMR imaging system. 4,700,138, 10-13-87, Cl. 324-322.000.

Shimazaki, Toru; and Matsuura, Hiroyuki, to Yokogawa Electric Corporation; and Yokogawa Medical Systems, Limited. Nuclear magnetic resonance imaging apparatus. 4,713,616, 12-15-87, Cl. 324-309.000.

Shimazaki, Yasumi; Tsuyama, Yoshito; Haga, Hiroyo; and Hanzawa, Manabu, to Nippon Steel Corporation. Method for manufacturing spiral-welded steel pipe. 4,645,893, 2-24-87, Cl. 219-62.000.

Shimazu, Toshikazu: *See*—
Kawaguchi, Fumiaki; Shimazu, Toshikazu; and Takahashi, Kazuhisa, 4,712,117, Cl. 346-108.000.

Shimazu, Yukihiko, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor intergrated circuit. 4,706,157, 11-10-87, Cl. 361-86.000.

Shimazu, Yutaka: *See*—
Hirose, Kazutaka; and Shimazu, Yutaka, 4,653,807, Cl. 297-367.000.

Shimazutsu, Hiroaki: *See*—
Ideue, Kazuo; Oya, Masashi; Hayashi, Kanji; Egawa, Tsuneo; Shimazutsu, Hiroaki; Ibushi, Junichi; Yamamoto, Kuniyuki; Miyaguchi, Kanehisa; and Doho, Tamenari, 4,671,017, Cl. 51-49.000.

Shimba, Satoru; Iwamuro, Masao; Ito, Kenji; Suzuki, Katutoyo; Hamada, Fumio, to Konishiroku Photo Industry Co., Ltd. Method for the processing of silver halide photographic light-sensitive materials. 4,666,825, 5-19-87, Cl. 430-385.000.

Shimbo, Masafumi, to Kabushiki Kaisha Daini Seikosha. MIS-integrated semiconductor device. 4,635,089, 1-6-87, Cl. 357-42.000.

Shimbo, Masafumi: *See*—
Yamazaki, Tsuneo; Motte, Shunichi; and Shimbo, Masafumi, 4,705,358, Cl. 350-334.000.

Shimbo, Masaru; Fukuda, Kiyoshi; and Ohwada, Yoshiaki, to Kabushiki Kaisha Toshiba. Method of manufacturing semiconductor substrate. 4,638,552, 1-27-87, Cl. 29-576.00J.

Shimbo, Masaru; and Fukuda, Kiyoshi, to Kabushiki Kaisha Toshiba. Method of bonding crystalline silicon bodies. 4,671,846, 6-9-87, Cl. 156-629.000.

Shimbo, Masaru: *See*—
Nakagawa, Akio; Ohashi, Hiromichi; Ogura, Tsuneo; and Shimbo, Masaru, 4,700,466, Cl. 437-247.000.

Shimbori, Yuichi: *See*—
Fujita, Masahito; Miyazaki, Makoto; Kizaki, Masami; Nagashima, Yukio; and Shimbori, Yuichi, 4,678,768, Cl. 502-119.000.

Shimeki, Yasuharu: *See*—
Nomura, Noboru; and Shimeki, Yasuharu, 4,660,113, Cl. 360-113.000.

Shimeno, Kazuhiro: *See*—
Shirasu, Hiroshi; Shimeno, Kazuhiro; and Iwamoto, Joji, 4,710,604, Cl. 219-121.0LU.

Shimidzu, Yasutaka; Harada, Naoki; and Tezuka, Yasuo, to Sumitomo Chemical Company, Limited. Reactive pyridone azo dyes having both monochlorotriazinyl and vinylsulfone type reactive groups. 4,644,058, 2-17-87, Cl. 534-635.000.

Shimirak, Gerald L.; and Koht, Lowell I., to Raychem Corporation. Apparatus for relieving a load across a cable repair region. 4,704,500, 11-3-87, Cl. 174-93.000.

Shimirak, Gerald L.: *See*—
Debbaut, Christian A. M.; Shimirak, Gerald L.; and Swinmurn, John C., 4,686,327, Cl. 174-88.00R.
Diaz, Stephen H.; Debbaut, Christian A. M.; Humphries, William H.; Lawrence, Alvah A.; Ragland, Glen W.; and Shimirak, Gerald L., 4,648,919, Cl. 156-48.000.
Koht, Lowell; and Shimirak, Gerald L., 4,692,565, Cl. 174-93.000.

Shimirak, Gerlad L.; Hunter, Thomas; Story, Martha F.; Halstead, W. G.; Chan, Paul S.; and Swinmurn, Christopher J., to Raychem Corp. Cable sealing apparatus. 4,701,574, 10-20-87, Cl. 174-93.000.

Shimiya, Ketji: *See*—
Koizumi, Yuichiro; Nojima, Masaki; and Shimiya, Ketji, 4,701,622, Cl. 250-486.100.

Shimiza, Akihiro: *See*—
Tamura, Kazuhisa; Watanabe, Hideo; and Shimiza, Akihiro, 4,685,529, Cl. 180-89.120.

Shimizu, Akihito: *See*—
Takada, Toshiyuki; Fukui, Noboru; and Shimizu, Akihito, 4,707,986, Cl. 60-310.000.

Shimizu, Atsushi: *See*—
Matsuoka, Yuuji; Yamataka, Kazunori; and Shimizu, Atsushi, 4,666,570, Cl. 204-59.00R.
Morioka, Mikio; and Shimizu, Atsushi, 4,670,176, Cl. 252-62.3GA.

Shimizu, Chuji: *See*—
Inoue, Hirokatsu; and Shimizu, Chuji, 4,653,502, Cl. 128-640.000.
Osada, Soichi; Inoue, Hirokatsu; Shimizu, Chuji; Onodera, Yasuaki; Kobayashi, Ken-ichi; Kozima, Kazuo; and Shioda, Shigeyoshi, 4,653,500, Cl. 128-639.000.

Shimizu Construction Co., Ltd.: *See*—
Enaka, Nobuhiro, 4,635,169, Cl. 362-147.000.
Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, 4,709,899, Cl. 249-20.000.
Machi, Fumiharu; and Sawaide, Minoru, 4,660,340, Cl. 52-249.000.
Minami, Kiyoshi; and Horiyama, Tsuyoshi, 4,666,605, Cl. 210-603.000.
Okuda, Shuji; Shimomura, Hideo; Honda, Kusuo; Kawaguchi, Masato; Kuno, Yasuo; Kumagai, Takenori; and Kato, Nobuo, 4,697,397, Cl. 52-223.00R.
Sato, Takanori, 4,707,956, Cl. 52-167.000.
Sawaide, Minoru; Ishikawa, Noboru; and Shiokawa, Hideyo, 4,687,517, Cl. 106-96.000.
Sugita, Minoru; Nakatsuji, Teruyuki; Fujisaki, Tadashi; Hiraga, Hisao; Nishimoto, Takashi; and Futagawa, Minoru, 4,706,430, Cl. 52-309.160.

Shimizu, Eiichi: *See*—
Taniguchi, Akihiko; Fukunaga, Takahiro; and Shimizu, Eiichi, 4,682,884, Cl. 355-51.000.

Shimizu, Etsuo: *See*—
Minagawa, Yukinori; Tanaka, Minoru; Matsuo, Keiko; and Shimizu, Etsuo, 4,589,277, Cl. 428-690.000.

Shimizu, Fumio: *See*—
Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, 4,655,385, Cl. 228-223.000.
Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, 4,670,067, Cl. 148-26.000.
Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, 4,689,092, Cl. 148-26.000.

Shimizu, Goro; Hayashi, Yoshimi; Hasegawa, Hajime; Koga, Taiji; Takei, Atsuo; Okuyama, Tohru; and Torigoe, Hideo, to Matsui Shikiso Chemical Co., Ltd.; and Bridgestone Corporation. Thermochromic polyurethane foam. 4,666,949, 5-19-87, Cl. 521-114.000.

Shimizu, Hajime. Display for radars or sonars. 4,682,177, 7-21-87, Cl. 342-176.000.

Shimizu, Haruo, to Canon Kabushiki Kaisha. Image data processing apparatus adaptable to output devices of different types. 4,691,237, 9-1-87, Cl. 358-256.000.

Shimizu, Hideo: *See*—
Morimoto, Takeshi; Matsubara, Toshiya; Hamatani, Yoshiki; Iwano, Naoto; Shimizu, Hideo; Komatsu, Shigeo; and Yamada, Hidemi, 4,689,724, Cl. 361-433.000.
Toyama, Koji; and Shimizu, Hideo, 4,686,138, Cl. 428-323.000.

Shimizu, Hirokazu; Itoh, Kunio; Sugino, Takashi; Wada, Masaru; Teramoto, Iwao; and Fujimoto, Kazuo, to Matsushita Electric Industrial Co., Ltd. Semiconductor laser. 4,651,322, 3-17-87, Cl. 372-45.000.

Shimizu, Hirokazu: *See*—
Matsuno, Yutaka; Hatanaka, Yasunori; Shimizu, Hirokazu; Ishigaki, Masahiro; Harada, Hiroshi; Kawada, Michihiro; and Wakita, Yasukuni, 4,673,188, Cl. 277-212.0FB.
Wada, Masaru; Shimizu, Hirokazu; Shibutani, Takao; Itoh, Kunio; Hamada, Ken; and Teramoto, Iwao, 4,675,074, Cl. 156-647.000.

Shimizu, Hiromitsu, to Tokuzo Hirose. Rotary hook assembly. 4,665,850, 5-19-87, Cl. 112-231.000.

Shimizu, Hiromitsu: *See*—
Hirose, Tokuzo; and Shimizu, Hiromitsu, 4,700,643, Cl. 112-231.000.

Shimizu, Hiroshi, to Yasunaga Engineering Kabushiki Kaisha. Device for feeding work to machine tool. 4,640,259, 2-3-87, Cl. 125-16.00R.

Shimizu, Hiroshi; and Kaizuka, Masao, to Kabushiki Kaisha Toshiba. Sequential logic circuit. 4,706,217, 11-10-87, Cl. 365-154.000.

Shimizu, Hiroshi: *See*—
Nakatsuka, Iwao; Shimizu, Hiroshi; and Yoshitake, Akira, 4,687,852, Cl. 546-20.000.
Sekiya, Fukuo; and Shimizu, Hiroshi, 4,645,303, Cl. 350-332.000.
Yamaguchi, Youko; Shimizu, Hiroshi; Tsuda, Ichiro; Yano, Masafumi; and Okumura, Tokiko, 4,710,964, Cl. 382-17.000.

Shimizu, Hiroyasu; Inamura, Atsuo; and Haraguchi, Manabu, to Sanyo Electric Co, Ltd. Drug dispensing apparatus. 4,664,289, 5-12-87, Cl. 221-2.000.

Shimizu, Hisashi: *See*—
Itoh, Kunio; Kozakai, Shohei; Hida, Yoshinori; Okinoshima, Hiroshige; Okada, Fumio; Oba, Toshio; Shimizu, Hisashi; Hinoto, Yuji; and Yoshioka, Hiroshi, 4,678,688, Cl. 427-387.000.
Itoh, Kunio; Shiobara, Toshio; Futatsumori, Koji; Tomiyoshi, Kazutoshi; and Shimizu, Hisashi, 4,701,482, Cl. 523-435.000.

Shimizu, Hisayuki; Anzai, Satoru; Tanaka, Hiroshi; and Suwa, Kyoichi, to Nippon Kogaku K. K. Automatic magnification correcting system in a projection optical apparatus. 4,666,273, 5-19-87, Cl. 353-101.000.

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Kayakabe, Hiroshi; Mitomi, Masaei; Miyajima, Mikio; Nakata, Shuji; Shimizu, Tadashi; Yoshito, Kazuharu; and Nishiu, Masamichi, 4,677,021, Cl. 428-306.600.

Shimizu, Isamu: *See*—
Fujiwara, Ryoji; and Shimizu, Isamu, 4,670,334, Cl. 428-336.000.
Hirooka, Masaaki; Ishihara, Shunichi; Hanna, Junichi; and Shimizu, Isamu, 4,657,777, Cl. 427-39.000.
Inoue, Eiichi; Shimizu, Isamu; and Komatsu, Toshiyuki, 4,673,628, Cl. 430-58.000.
Inoue, Eiichi; Shimizu, Isamu; and Komatsu, Toshiyuki, 4,701,394, Cl. 430-57.000.
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isamu, 4,689,093, Cl. 437-5.000.
Ishihara, Shunichi; Saito, Keishi; Oda, Shunri; and Shimizu, Isamu, 4,702,934, Cl. 427-39.000.
Ishihara, Shunichi; Ohno, Shigeru; Kanai, Masahiro; Oda, Shunri; and Shimizu, Isamu, 4,716,048, Cl. 427-39.000.
Omote, Tatsuyuki; Yoshida, Tomiharu; Shimizu, Isamu; and Metoki, Kichinori, 4,643,845, Cl. 252-626.000.

Shimizu, Isao, to Hitachi, Ltd. Power transistor structure having an emitter ballast resistance. 4,639,757, 1-27-87, Cl. 357-36.000.

Shimizu, Isao; and Hoya, Kazuo, to Hitachi, Ltd. Pressure sensor. 4,672,411, 6-9-87, Cl. 357-26.000.

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Shimizu, Iwao: *See*—
Maeda, Sadayuki; Shinoo, Yasutaka; Takenaka, Shinji; Arashida, Susumu; and Shimizu, Iwao, 4,670,607, Cl. 568-427.000.

Shimizu, Junichi: *See*—
Takazoe, Ichiro; Ohta, Kosei; Shimizu, Junichi; Suzuki, Kazumasa; Iwakura, Tatsuya; and Nakajima, Yoshikazu, 4,695,326, Cl. 127-30.000.

Shimizu, Junzoh, to NEC Corporation. Self-aligned process for forming dielectrically isolating regions formed in semiconductor device. 4,679,306, 7-14-87, Cl. 29-576.00W.

Shimizu Kagaku Kabushiki Kaisha: *See*—
Fukuda, Keishi, 4,664,916, Cl. 424-195.100.

Shimizu, Katsuichi; Masuda, Shunichi; Yagasaki, Toshiaki; and Sakamaki, Hisashi, to Canon Kabushiki Kaisha. Reproduction apparatus. 4,638,368, 1-20-87, Cl. 358-256.000.

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Shimizu, Katsuichi; Sakamaki, Hisashi; Furuichi, Katsushi; and Honma, Toshio, to Canon Kabushiki Kaisha. Apparatus for controlling image formation. 4,685,796, 8-11-87, Cl. 355-14.00R.

Shimizu, Katsumasa: *See*—
Shiraki, Manabu; Amano, Hiroyuki; Nishimura, Tomoaki; and Shimizu, Katsumasa, 4,651,041, Cl. 310-180.000.
Shiraki, Manabu; Amano, Hiroyuki; Nishimura, Tomoaki; and Shimizu, Katsumasa, 4,698,535, Cl. 310-156.000.

Shimizu, Katsumi: *See*—
Ida, Shuichiro; Shimizu, Katsumi; and Hotta, Junichi, 4,676,114, Cl. 74-335.000.

Shimizu, Keiichi; Kikuchi, Sanae; and Nakano, Hitoshi, to Honda Giken Kogyo Kabushiki Kaisha. Seal for dampers on motor vehicles. 4,709,931, 12-1-87, Cl. 277-153.000.

Shimizu, Keiichi: *See*—
Fujino, Kiyohiko; Namazue, Hirotoshi; Okuya, Shigetami; Tsutsumi, Shunsaku; Kobayashi, Satoru; and Shimizu, Keiichi, 4,700,186, Cl. 340-825.720.

Shimizu, Kenichi: *See*—
Ohdake, Eshu; Oikawa, Tetsuhiro; Shimizu, Kenichi; Seto, Takashi; Ishikawa, Masahiro; Suzuki, Shigeru; and Tagoku, Izumi, 4,640,611, Cl. 355-77.000.

Shimizu, Kenji: *See*—
Sakamaki, Hiroshi; Sugishita, Susumu; Horikoshi, Yukio; Okamura, Hiroshi; and Shimizu, Kenji, 4,649,612, Cl. 29-156.40R.

Shimizu Kensetsu Kabushiki Kaisha: *See*—
Yamagata, Taizo; Uchikawa, Takaaki; Yamamoto, Shinichi; Tomikawa, Shinichiro; Ogasahara, Yoshio; and Sukagawa, Masaru, 4,694,736, Cl. 98-31.600.

Shimizu, Kenzo: *See*—
Kamijo, Ken; Shimizu, Kenzo; and Ueno, Hiroshi, 4,655,503, Cl. 297-238.000.

Shimizu, Kimihiro; Nakahara, Tsuguji: Kinoshita, Taketoshi; Takatsuka, Jun; and Igarashi, Michiko, to Nippon Chemiphar Co., Ltd. Plasminogen activator derivatives. 4,640,835, 2-3-87, Cl. 424-94.000.

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Shimizu, Kiyoshi: *See*—
Harada, Susumu; Shimizu, Kiyoshi; and Ujiie, Masayuki, 4,687,817, Cl. 525-375.000.
Serizawa, Hajime; Ogihara, Keizo; Shimizu, Kiyoshi; and Harada, Susumu, 4,701,497, Cl. 525-292.000.
Ueda, Toshio; Kageno, Kenji; Shimizu, Kiyoshi; Hasegawa, Sakuro; and Harada, Susumu, 4,644,042, Cl. 526-204.000.

Shimizu, Koichi: *See*—
Matsumoto, Goro; Shimizu, Koichi; and Fujita, Hiroyuki, 4,668,094, Cl. 356-376.000.

Shimizu, Kuniaki: *See*—
Takematsu, Tetsuo; Konnai, Makoto; Shimizu, Kuniaki; Urushibata, Ikumi; and Kajiwara, Ikuo, 4,659,371, Cl. 71-103.000.

Shimizu, Kunio: *See*—
Suzuki, Akira; Mizuta, Yukio; Sato, Rejiro; and Shimizu, Kunio, 4,688,156, Cl. 362-354.000.

Shimizu, Kyoichi; and Fujita, Akira, to Victor Company of Japan, Ltd. Phase locked signal generator. 4,649,438, 3-10-87, Cl. 358-337.000.

Shimizu, Kyoichi: *See*—
Fujita, Akira; and Shimizu, Kyoichi, 4,639,782, Cl. 358-166.000.

Shimizu, Makoto, to Kabushiki Kaisha Toshiba. Image information-filing apparatus. 4,661,988, 4-28-87, Cl. 382-65.000.

Shimizu, Masahiro; Okamoto, Tatsuo; and Tsukamoto, Katsuhiro, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor device and a method of manufacturing the same. 4,708,904, 11-24-87, Cl. 428-209.000.

Shimizu, Masahiro: *See*—
Okamoto, Tatsuo; Shimizu, Masahiro; and Tsukamoto, Katsuhiro, 4,707,723, Cl. 357-67.000.
Shimano, Hiroki; Shimizu, Masahiro; Tsukamoto, Katsuhiro; and Inuishi, Masahide, 4,702,797, Cl. 156-653.000.

Shimizu, Masami; and Matsuyama, Shinichi, to Canon Kabushiki Kaisha. External display device for camera. 4,647,176, 3-3-87, Cl. 354-475.000.

Shimizu, Masami: *See*—
Kimura, Sosaku; Hatsuse, Toshikazu; Shimizu, Masami; Miyashita, Masakazu; Yoshioka, Junichi; Kanai, Akira; and Koizumi, Koichi, 4,656,951, Cl. 108-20.000.
Suzuki, Nobuyuki; and Shimizu, Masami, 4,679,926, Cl. 354-173.110.
Tosaka, Yoichi; and Shimizu, Masami, 4,710,008, Cl. 354-289.100.

Shimizu, Masanobu: *See*—
Mukai, Yasuo; and Shimizu, Masanobu, 4,643,947, Cl. 428-413.000.
Mukai, Yasuo; Takasawa, Yosuke; Shimizu, Masanobu; and Shinohara, Shunya, 4,689,269, Cl. 428-413.000.

Shimizu, Masao: *See*—
Suzuki, Nobuyuki; Shimizu, Masao; and Katsuragawa, Mitsuhiro, 4,713,571, Cl. 310-316.000.

Shimizu, Masataka: *See*—
Nakashima, Tadao; Shimizu, Masataka; and Kawano, Mikio, 4,657,875, Cl. 501-39.000.

Shimizu, Mitsuru: *See*—
Matsushima, Seiichi; Higashihara, Toshio; Shimizu, Mitsuru; Yoshizawa, Ken; Suzuki, Masahiro; and Sugiyama, Toshinori, 4,710,913, Cl. 369-280.000.
Okada, Yoshio; and Shimizu, Mitsuru, 4,663,584, Cl. 323-313.000.

Shimizu, Motohiro: *See*—
Fuji, Shigeru; and Shimizu, Motohiro, 4,663,582, Cl. 322-63.000.

Shimizu, Naoki. Three-dimensional range finder. 4,664,512, 5-12-87, Cl. 356-1.000.

Shimizu, Natsue: *See*—
Yoshida, Mitsuo; Mizuno, Yoshikuni; Shimizu, Natsue; Otsuka, Mieko; Dobutsu, Masakatsu; Furukawa, Yuusuke; and Joshita, Yutaka, 4,690,949, Cl. 514-561.000.

Shimizu, Noboru: *See*—
Kitada, Masahiro; Tanabe, Hideo; Shimizu, Noboru; Tsuchiya, Hiroshi; and Katsumata, Masao, 4,663,607, Cl. 338-32.00H.

Shimizu, Nobuaki: *See*—
Tsubouchi, Toshiyuki; Minokami, Tomiyasu; and Shimizu, Nobuaki, 4,703,124, Cl. 546-352.000.

Shimizu, Noburu: *See*—
Kondo, Hideki; Shimizu, Noburu; and Kanemitsu, Yoichi, 4,688,989, Cl. 415-122.00R.

Shimizu, Norimitsu, to Fuji Xerox Company, Limited. Power supply for discharge lamp. 4,687,971, 8-18-87, Cl. 315-244.000.

Shimizu, Osamu, to Ohkura Electric Co., Ltd. Multi-range controller. 4,688,194, 8-18-87, Cl. 364-571.000.

Shimizu, Ryuichi; Mori, Yasuki; Kawanishi, Tsuneaki; Isoo, Osamu; Morishita, Hirosada; and Hosoda, Tooru, to Hitachi, Ltd.; and Dainichiseika Color & Chemicals MFG. Co., Ltd. White ink composition for ink-jet printing. 4,680,058, 7-14-87, Cl. 106-23.000.

Shimizu, Ryuichi; and Ikuta, Takashi, to Research Development Corporation of Japan. Scan line type dynamic observation apparatus. 4,713,687, 12-15-87, Cl. 358-138.000.

Shimizu, Seiki: *See*—
Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisashi; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kiyoshi; and Kaneko, Toshiki, 4,651,172, Cl. 346-135.100.

Shimizu, Senzo; Nomura, Isao; and Narita, Kenichi, to Mitsubishi Gas Chemical Company, Inc. Electrically conductive polyamide resin composition. 4,702,859, 10-27-87, Cl. 252-511.000.

Shimizu, Shigehisa; Suzuki, Chiaki; Harada, Kazumasa; and Maeda, Tomohisa, to Fuji Photo Film Co., Ltd. Film loading apparatus. 4,656,737, 4-14-87, Cl. 29-806.000.

Shimizu, Shigehisa; and Otokozawa, Takao, to Fuji Photo Film Co., Ltd. Apparatus for measuring the thickness of a roll winding on or unwinding from a core. 4,657,198, 4-14-87, Cl. 242-57.000.

Shimizu, Shigehisa; and Otokozawa, Takao, to Fuji Photo Film Co., Ltd. Method and apparatus for inspecting web surface. 4,709,157, 11-24-87, Cl. 250-572.000.

Shimizu, Shigemi; and Iizuka, Jiro, to Sanden Corporation. Axial sealing mechanism for a scroll compressor. 4,701,115, 10-20-87, Cl. 418-55.000.

Shimizu, Shigeo: *See*—
Fukuda, Yasutaka; Shimizu, Shigeo; and Nakano, Atsushi, 4,698,251, Cl. 428-64.000.

Shimizu, Shigeru; and Kumasaka, Akio, to NEC Corporation. Electrocardiogram signal processing apparatus for determining the existence of the Wolff-Parkinson-White syndrome. 4,704,681, 11-3-87, Cl. 364-417.000.

Shimizu, Shigeru: *See*—
Maekawa, Nobuaki; Shimizu, Shigeru; Dohi, Masaaki; and Kuriyama, Yoji, 4,660,962, Cl. 355-15.000.

Shimizu, Shinji; Komori, Kazuhiro; Kosa, Yasunobu; and Sugura, June, to Hitachi, Ltd. Forming memory transistors with varying gate oxide thicknesses. 4,651,406, 3-24-87, Cl. 29-571.000.

Shimizu, Shinji, to Hitachi, Ltd. Semiconductor device and method of manufacturing the same. 4,663,644, 5-5-87, Cl. 357-23.140.

Shimizu, Shoji, to Excell Corporation. Apparatus for molding plastic products. 4,681,525, 7-21-87, Cl. 425-527.000.

Shimizu, Shumpei; Cho, Toshitsura; and Yagi, Osamu, to Tama Chemical Co., Ltd. Method for production of aqueous quaternary ammonium hydroxide solution. 4,634,509, 1-6-87, Cl. 204-182.400.

Shimizu, Tadao: *See*—
Takano, Hirokuni; Suemune, Toshiro; and Shimizu, Tadao, 4,704,040, Cl. 400-121.000.

Shimizu, Tadashi: *See*—
Kayakabe, Hiroshi; Mitomi, Masaei; Miyajima, Mikio; Nakata, Shuji; Shimizu, Tadashi; Yoshito, Kazuharu; and Nishi, Masamichi, 4,677,021, Cl. 428-306.600.
Ohshima, Ken; and Shimizu, Tadashi, 4,710,908, Cl. 369-32.000.

Shimizu, Takanori; and Ikeda, Masahiko, to Pilot Man-Nen Hitsu Kabushiki Kaisha. XY plotter apparatus. 4,646,107, 2-24-87, Cl. 346-74.200.

Shimizu, Takeyuki: *See*—
Maezono, Masakazu; Shimizu, Takeyuki; and Ishikawa, Kenichi, 4,645,051, Cl. 192-0.055.

Shimizu, Taku: *See*—
Shinoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Okino, Susumu; and Shimizu, Taku, 4,696,804, Cl. 423-242.000.
Shinoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Okino, Susumu; and Shimizu, Taku, 4,696,805, Cl. 423-242.000.

Shimizu, Tamotsu: *See*—
Tateishi, Hideki; Shimizu, Tamotsu; Atuchi, Susumu; Iwashita, Katsuhiro; and Nakamura, Hiroshi, 4,675,096, Cl. 204-298.000.

Shimizu, Tasuku: *See*—
Hasegawa, Kunio; Shimizu, Tasuku; Horiuchi, Tetsuo; and Ito, Hisao, 4,687,625, Cl. 376-292.000.
Hosaka, Nobuyoshi; Shimizu, Tasuku; Mikada, Kenzo; Tamura, Kozo; and Tanabe, Masatoshi, 4,678,571, Cl. 210-202.000.

Shimizu, Teruo: *See*—
Horie, Motonobu; Shimizu, Teruo; and Obara, Kouichiro, 4,644,961, Cl. 131-94.000.

Shimizu, Tetsuo, to Pioneer Electronic Corporation. Time base correction circuit. 4,692,708, 9-8-87, Cl. 328-63.000.

Shimizu, Tetsuo; Tujimura, Kiyoharu; and Iwamoto, Michinori, to STEC Inc. Fluid control device. 4,695,034, 9-22-87, Cl. 251-129.06.

Shimizu, Tetsuo: *See*—
Suzuki, Toshio; Yoshida, Masayoshi; and Shimizu, Tetsuo, 4,647,984, Cl. 358-326.000.

Shimizu, Tokihiko: *See*—
Imai, Akihiro; Shimizu, Tokihiko; and Taguchi, Nobuyoshi, 4,684,561, Cl. 428-141.000.

Shimizu, Tokuzo, to Teac Corporation. Tape cassette having a tape support structure. 4,684,078, 8-4-87, Cl. 242-199.000.

Shimizu, Tokuzu: *See*—
Yogome, Yoshihiro; Itsuki, Sheizi; Shimizu, Tokuzu; Shimizu, Tsutomu; and Hamada, Hisashi, 4,665,873, Cl. 123-373.000.

Shimizu, Toshiaki: *See*—
Shiba, Takeshi; Shimizu, Toshiaki; and Yanase, Fumihiro, 4,659,437, Cl. 204-28.000.

Shimizu, Toshihide; Kaneko, Ichiro; Watanabe, Mikio; and Shimakura, Yoshiteru, to Shin-Etsu Chemical Co., Ltd. Method for preventing polymer scale deposition on the reactor walls in the polymerization of ethylenically unsaturated monomers. 4,708,890, 11-24-87, Cl. 427-230.000.

Shimizu, Toshimi; and Tanaka, Yoshio, to Agency of Industrial Science & Technology; and Ministry of International Trade & Industry. Novel cyclic octapeptide, method for production of said octapeptide, and ion extracting/separating agent using said octapeptide as principal component. 4,668,397, 5-26-87, Cl. 210-634.000.

Shimizu, Toshimitsu, to NEC Corporation. Subscriber line monitoring circuit. 4,709,386, 11-24-87, Cl. 379-24.000.

Shimizu, Toshio: *See*—
Takeno, Shozo; Shimizu, Toshio; and Saito, Takashi, 4,680,593, Cl. 346-76.0PH.

Shimizu, Toshiyuki; and Furukawa, Yoshitomo, to Kyoto Electronics Manufacturing Co., Ltd. Method of detecting electrode potential in Karl Fischer moisture meter. 4,664,756, 5-12-87, Cl. 204-1.00T.

Shimizu, Tsutomu; Tarumoto, Kouji; and Nanba, Satoshi, to Mazda Motor Corporation. Manufacture of a wear-resistant sliding surface. 4,678,738, 7-7-87, Cl. 430-220.000.

Shimizu, Tsutomu; Miyata, Jun; and Yagi, Koji, to Mazda Motor Corporation. Apex seal for rotary piston engines. 4,693,942, 9-15-87, Cl. 428-614.000.

Shimizu, Tsutomu: *See*—
Hamada, Hideki; and Shimizu, Tsutomu, 4,645,232, Cl. 280-801.000.
Yogome, Yoshihiro; Itsuki, Sheizi; Shimizu, Tokuzu; Shimizu, Tsutomu; and Hamada, Hisashi, 4,665,873, Cl. 123-373.000.

Shimizu, Wataru; and Yuasa, Yasuhiro, to Kabushiki Kaisha SG. Positioning control device for an electric motor. 4,651,073, 3-17-87, Cl. 318-632.000.

Shimizu, Yasuhiro; and Doi, Akira, to Sumitomo Electric Industries, Ltd. Surface treatment process. 4,634,600, 1-6-87, Cl. 427-38.000.

Shimizu, Yasuhiro, to Toshin Technical Co., Ltd. Apparatus for frying foods. 4,653,391, 3-31-87, Cl. 99-349.000.

Shimizu, Yasuhiro: *See*—
Hirasawa, Kazushige; Shimizu, Yasuhiro; and Matsumura, Takemasa, 4,683,543, Cl. 364-513.000.
Naganuma, Nobuyuki; and Shimizu, Yasuhiro, 4,664,048, Cl. 112-453.000.

Shimizu, Yasumasa: *See*—
Nishida, Fumihiko; Shimizu, Yasumasa; Yoshida, Tomohiro; Urata, Makoto; Hotta, Tomiji; Mizuta, Masaji; and Yamashita, Hiroshi, 4,679,930, Cl. 355-52.000.

Shimizu, Yasumoto; and Matsudaira, Takeo, to Hoya Corporation. Method of manufacturing an electroluminescent panel without any adverse influence on an underlying layer. 4,683,044, 7-28-87, Cl. 204-192.260.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Electromagnetic servo device. 4,639,651, 1-27-87, Cl. 318-432.000.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Epicyclic gear speed change mechanism. 4,644,824, 2-24-87, Cl. 74-781.00R.

Shimizu, Yasuo; and Kawai, Toshitake, to Honda Giken Kogyo Kabushiki Kaisha. Motor-driven power steering system. 4,651,840, 3-24-87, Cl. 180-79.100.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Electromagnetic servo unit. 4,656,409, 4-7-87, Cl. 318-689.000.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Electric power steering system for vehicles. 4,657,103, 4-14-87, Cl. 180-142.000.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Electromagnetic servo unit. 4,660,669, 4-28-87, Cl. 180-79.100.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Motor-driven power steering system. 4,671,371, 6-9-87, Cl. 180-79.100.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Motor-driven power steering unit. 4,671,372, 6-9-87, Cl. 180-79.100.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Electric power steering system for vehicles. 4,681,181, 7-21-87, Cl. 180-79.100.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Motor-driven power booster. 4,686,433, 8-11-87, Cl. 318-50.000.

Shimizu, Yasuo; and Ogura, Masami, to Honda Giken Kogyo Kabushiki Kaisha. Centrifugal clutch instantly engageable and disengageable. 4,687,085, 8-18-87, Cl. 192-89.00W.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Electromagnetic servo device for electric power steering systems for vehicles. 4,687,976, 8-18-87, Cl. 318-432.000.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Electric power steering system for vehicles. 4,688,655, 8-25-87, Cl. 180-79.100.

Shimizu, Yasuo, to Honda. Electric power steering system for vehicles. 4,703,821, 11-3-87, Cl. 180-79.100.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Electric power steering system for vehicles. 4,715,461, 12-29-87, Cl. 180-79.100.

Shimizu, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Electric power steering system for vehicles. 4,715,463, 12-29-87, Cl. 180-79.100.

Shimizu, Yohei, to Sanyo Electric Co., Ltd. Flyback transformer. 4,639,706, 1-27-87, Cl. 336-170.000.

Shimizu, Yosaburo: *See*—
Obe, Mitsuhiko; Kawai, Isamu; Nakata, Masaru; Ooi, Katumi; Shimizu, Yosaburo; Fukawatase, Katsushi; Nishikawa, Takao; Hinoue, Kenji; Arisawa, Susumu; Sato, Kenichi; Kurata, Yasunori; and Sato, Kengo, 4,650,242, Cl. 296-190.000.

Shimizu, Yoshiki: *See*—
Ohmori, Akira; Tomihashi, Nobuyuki; and Shimizu, Yoshiki, 4,634,754, Cl. 526-242.000.

Shimizu, Yoshiro; and Tada, Yoshio, to Mitsui Toatsu Chemicals, Inc. Magnetic recording medium. 4,637,964, 1-20-87, Cl. 428-694.000.

Shimizu, Yoshiro, to Isuzu Motors Ltd. Door glass assembly for automotive vehicles. 4,689,916, 9-1-87, Cl. 49-374.000.

Shimizu, Yoshishige: *See*—
Sasaki, Makoto; Yoshida, Jun; Shimizu, Yoshishige; Akazawa, Kiyoshi; Kishita, Eiji; and Hirata, Kaoru, 4,713,291, Cl. 428-373.000.

Shimizu, Yoshiyuki; and Mori, Takashi, to Nippon Kogaku K. K. Microscope objective lens. 4,666,256, 5-19-87, Cl. 350-414.000.

Shimizu, Yujiro: *See*—
Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, Koji; Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusawa, Kuniaki; Takama, Hideaki; Waseda, Masashi; and Fujita, Akihisa, 4,667,551, Cl. 83-72.000.

Shimizu, Yukihiko: *See*—
Watanabe, Hiroshi; and Shimizu, Yukihiko, 4,701,670, Cl. 315-169.300.

Shimizu, Yukio: *See*—
Konishi, Toshiharu; Shimizu, Yukio; Sakuramoto, Takahumi; Morishita, Tsuyoshi; and Osaki, Shigemi, 4,681,733, Cl. 419-8.000.
Morishita, Tsuyoshi; Osaki, Sigemi; Sakai, Noriyuki; Shimizu, Yukio; Konishi, Toshiharu; and Sakuramoto, Takahumi, 4,670,215, Cl. 419-9.000.

Shimizue, Susumu: *See*—
Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, 4,690,704, Cl. 71-90.000.

Shimkunas, Alexander R., to Micronix Corporation. Process for making a mask used in x-ray photolithography. 4,668,336, 5-26-87, Cl. 156-643.000.

Shimkunas, Alexander R., to Micronix Corporation. Mask using polyimide to support a patterned x-ray opaque layer. 4,671,850, 6-9-87, Cl. 156-643.000.

Shimkunas, Alexander R.; and Block, Barry, to Micronix Corporation. Method for producing a mask for use in X-ray photolithography and resulting structure. 4,680,243, 7-14-87, Cl. 430-5.000.

Shimkunas, Alexander R., to Micronix Corporation. Additive process for manufacturing a mask for use in X-ray photolithography and the resulting mask. 4,696,878, 9-29-87, Cl. 430-5.000.

Shimkunas, Alexander R.; and LaBrie, James J., to Micronix Corporation. Process for manufacturing a mask for use in X-ray photolithography using a monolithic support and resulting structure. 4,708,919, 11-24-87, Cl. 430-5.000.

Shimmel, David M., to Fayette Manufacturing Corp. Hydraulic control device for wind turbine. 4,715,782, 12-29-87, Cl. 416-32.000.

Shimobayashi, Osamu: *See*—
Tsuchinari, Akihiro; Shimobayashi, Osamu; and Hattori, Hisahiro, 4,676,412, Cl. 222-591.000.

Shimobuchi, Hideyuki: *See*—
Tsukada, Tetsuo; Shimobuchi, Hideyuki; and Yoshikawa, Takahiro, 4,695,175, Cl. 400-196.100.

Shimoda, Eitaro, to Sakae Tsushin Kogyo Co., Ltd. Multi-rotation type potentiometer. 4,716,395, 12-29-87, Cl. 338-149.000.

Shimoda, Hideyoshi: *See*—
Watanabe, Noboru; Kubo, Yoichiro; Nakagawa, Tsuyoshi; and Shimoda, Hideyoshi, 4,654,404, Cl. 525-315.000.

Shimoda, Hiromi, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Method and apparatus for reducing NO_x in exhaust gases from fluidized-bed boiler. 4,656,972, 4-14-87, Cl. 122-4.00D.

Shimoda, Hiromi; and Saito, Hajime, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Burner. 4,699,587, 10-13-87, Cl. 431-354.000.

Shimoda, Junji: *See*—
Yamamoto, Mitsuru; Watanabe, Kunio; and Shimoda, Junji, 4,639,735, Cl. 340-1.100.

Shimoda, Kaneyasu; Katoh, Tadayoshi; and Ageno, Yuzo, to Fujitsu Limited. Sequential decoding device for decoding systematic code. 4,710,746, 12-1-87, Cl. 340-347.0DD.

Shimoda, Kazuhiro: *See*—
Ichikawa, Toshiji; Takahara, Kazuaki; Shimoda, Kazuhiro; Seita, Yukio; and Emi, Makoto, 4,708,800, Cl. 210-500.230.

Shimoda, Kazuho; and Abe, Shunichi, to Konishiroku Photo Industry Co., Ltd. Sheet feeding system in recording apparatus. 4,693,459, 9-15-87, Cl. 271-9.000.

Shimoda, Kouji: *See*—
Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Shimoda, Kouji; Kimoto, Toshiyuki; and Kouno, Tomomitsu, 4,695,996, Cl. 369-77.100.
Sugihara, Masanori; Kurosawa, Atsushi; Okamoto, Akihiko; Bessho, Akira; Shimoda, Kouji; Okuda, Kenji; Kama, Haruo; and Kobayashi, Kazuo, 4,700,338, Cl. 369-77.100.

Shimoda, Masao: *See*—
Kikuchi, Masatsune; Matsui, Satoru; Omori, Hiroshi; and Shimoda, Masao, 4,650,523, Cl. 106-315.000.

Shimodaira, Saburo: *See*—
Naitoh, Kazumi; Ikezaki, Takashi; and Shimodaira, Saburo, 4,648,010, Cl. 361-433.000.

Shimodaira, Toshiro: *See*—
Yoshikawa, Shinichi; Nishiwaki, Shigeru; and Shimodaira, Toshiro, 4,644,239, Cl. 318-641.000.

Shimodaira, Toshiya: *See*—
Nakano, Yoshihisa; Ohira, Masatoshi; Ushida, Manabu; Miyagawa, Tomoyuki; and Shimodaira, Toshiya, 4,635,959, Cl. 280-707.000.

Shimoe, Toshio: *See*—
Kumazaki, Masayuki; Shimoe, Toshio; and Murakami, Koso, 4,680,758, Cl. 370-110.200.

Shimogai, Kiyoshi: *See*—
Hashimoto, Hitoshi; Tamaki, Yoshihiro; Mikami, Kazufumi; and Shimogai, Kiyoshi, 4,701,081, Cl. 408-1.00R.

Shimogawa, Toshiaki: *See*—
Sakakibara, Kazuo; Kuwakado, Satosi; Shimogawa, Toshiaki; Taguchi, Masahiro; Onimaru, Sadahisa; and Ina, Toshikazu, 4,669,780, Cl. 297-257.000.

Shimogawara, Jun, to NEC Corporation. Character selecting mechanism for a serial printer. 4,653,944, 3-31-87, Cl. 400-144.100.

Shimogori, Kazutoshi; Satoh, Hiroshi; and Kamikubo, Fumio, to Kabushiki Kaisha Kobe Seiko Sho. Titanium molybdenum alloy superior in resistance to pitting corrosion in bromide ion environment. 4,634,478, 1-6-87, Cl. 148-421.000.

Shimohara, Jun: *See*—
Suzuki, Mitsutoshi; Morita, Yoshitaka; Okada, Masami; and Shimohara, Jun, 4,710,297, Cl. 210-493.200.

Shimohashi, Hirotaka: *See*—
Kawai, Yasuo; and Shimohashi, Hirotaka, 4,710,379, Cl. 424-93.000.

Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; and Kawamoto, Hiroshi, to Hitachi, Ltd. Semiconductor memory. 4,646,267, 2-24-87, Cl. 365-189.000.

Shimohigashi, Katsuhiro; Kubo, Masaharu; Miyauchi, Katsuki; Masuhara, Toshiaki; and Minato, Osamu, to Hitachi, Ltd. Semiconductor memory having circuit effecting refresh on variable cycles. 4,672,586, 6-9-87, Cl. 365-229.000.

Shimohigashi, Katsuhiro; Masuda, Hiroo; Ikuzaki, Kunihiko; and Kawamoto, Hiroshi, to Hitachi, Ltd. Semiconductor memory. 4,709,353, 11-24-87, Cl. 365-205.000.

Shimohigashi, Katsuhiro: *See*—
Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masashi; Ozaki, Toshifumi; Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, 4,636,985, Cl. 365-189.000.
Aoki, Masakazu; Nakagome, Yoshinobu; Horiguchi, Masashi; Ikenaga, Shinichi; and Shimohigashi, Katsuhiro, 4,661,929, Cl. 365-189.000.
Aoki, Masakazu; Horiguchi, Masashi; Nakagome, Yoshinobu; Ikenaga, Shinichi; Shimohigashi, Katsuhiro; Masuhara, Toshiaki; Itoh, Kiyoo; Nakamura, Hideo; and Minato, Osamu, 4,701,884, Cl. 365-189.000.
Nakagome, Yoshinobu; Aoki, Masakazu; Horiguchi, Masashi; Shimohigashi, Katsuhiro; and Ikenaga, Shinichi, 4,709,350, Cl. 365-45.000.
Sunami, Hideo; Masuda, Hiroo; Kamigaki, Yoshiaki; Shimohigashi, Katsuhiro; and Takeda, Eiji, 4,656,492, Cl. 357-23.300.

Shimohira, Shigeru; Kimoto, Yasuyuki; and Hirota, Kazuo, to Meiji Kikai Seisakusyo Co., Ltd. Piece gun for spraying. 4,685,622, 8-11-87, Cl. 239-346.000.

Shimoji, Yasuo: *See*—
Tomita, Kuniyuki; Shimoji, Yasuo; Kumakura, Seiji; Koike, Hiroyuki; Iwata, Nobuyoshi; and Morisawa, Yasuhiro, 4,716,162, Cl. 514-234.000.

Shimojima, Masanori: *See*—
Kawano, Susumu; and Shimojima, Masanori, 4,674,378, Cl. 83-368.000.

Shimojima, Yoji: *See*—
Matsunaga, Hiroshi; Shimojima, Yoji; and Tokunaga, Ichiro, 4,634,862, Cl. 250-231.0SE.
Matsunaga, Hiroshi; Shimojima, Yoji; Tokunaga, Ichiro; and Obata, Kosei, 4,684,210, Cl. 350-96.200.
Matsunaga, Hiroshi; Tokunaga, Ichiro; Shimojima, Yoji; and Obata, Kosei, 4,705,348, Cl. 350-96.150.
Tokunaga, Ichiro; and Shimojima, Yoji, 4,650,995, Cl. 250-231.0SE.

Shimokawa, Hideharu: *See*—
Koga, Yasuharu; Yamamoto, Fumitada; and Shimokawa, Hideharu, 4,655,838, Cl. 106-90.000.

Shimokawa, Masao; and Tada, Yoshio, to Shikoku Kakooki Co., Ltd. Cap heat-sealing apparatus for containers. 4,659,415, 4-21-87, Cl. 156-379.700.

Shimokawa, Wataru; and Fukumori, Katuaki, to Hoechst Gosei Kabushiki Kaisha. Process for preparing aqueous gel and use thereof. 4,708,821, 11-24-87, Cl. 512-12.000.

Shimokawa, Wataru: *See*—
Kimimura, Kyomi; Shimokawa, Wataru; and Igarashi, Toshibumi, 4,647,504, Cl. 428-327.000.

Shimokawa, Yasuo: *See*—
Sakai, Kango; and Shimokawa, Yasuo, 4,673,447, Cl. 148-156.000.

Shimoma, Taketoshi; and Fukuda, Kumio, to Kabushiki Kaisha Toshiba. Color cathode ray tube device. 4,689,525, 8-25-87, Cl. 315-370.000.

Shimoma, Taketoshi: *See*—
Fukuda, Kumio; and Shimoma, Taketoshi, 4,656,390, Cl. 313-409.000.

Shimomoto, Takeshi: *See*—
Ogino, Yoshio; Shimomoto, Takeshi; and Hiraoka, Osamu, 4,665,324, Cl. 307-126.000.

Shimomoto Technical Engineering Co., Ltd.: *See*—
Ogino, Yoshio; Shimomoto, Takeshi; and Hiraoka, Osamu, 4,665,324, Cl. 307-126.000.

Shimomoto, Yasunobu, to Daidotokushuko Kabushikikaisha. Fine grains producing apparatus. 4,638,488, 1-20-87, Cl. 373-22.000.

Shimomura, Akihiko, to Canon Kabushiki Kaisha. Recording implement and ink jet recording device equipped with the same. 4,689,640, 8-25-87, Cl. 346-140.00R.

Shimomura, Hideo: *See*—
Okuda, Shuji; Shimomura, Hideo; Honda, Kusuo; Kawaguchi, Masato; Kuno, Yasuo; Kumagai, Takenori; and Kato, Nobuo, 4,697,397, Cl. 52-223.00R.

Shimomura, Hiroshi; Karino, Katsuyoshi; and Iizuka, Kazuo, to Mitsubishi Kinzoku Kabushiki Kaisha. Insert cutter. 4,645,384, 2-24-87, Cl. 407-42.000.

Shimomura, Hiroshi; and Arai, Tatsuo, to Mitsubishi Kinzoku Kabushiki Kaisha. Insert rotary cutter. 4,687,383, 8-18-87, Cl. 407-46.000.

Shimomura, Hiroshi; Takaya, Sueji; and Iizuka, Kazuo, to Mitsubishi Kinzoku Kabushiki Kaisha. Insert rotary cutter. 4,699,549, 10-13-87, Cl. 407-42.000.

Shimomura, Hiroshi; Iizuka, Kazuo; Harano, Makoto; and Hamada, Akifumi, to Mitsubishi Kinzoku Kabushiki Kaisha; and Ryoco Seiki Co., Ltd. Insert rotary cutter. 4,714,383, 12-22-87, Cl. 407-42.000.

Shimomura, Jun: *See*—
Kusaka, Yosuke; and Shimomura, Jun, 4,644,148, Cl. 250-201.000.

Shimomura, Kenji; Kouketsu, Shigeaki; Okuyama, Toru; and Sato, Take, to Ikeda Bussan Co., Ltd.; and Bridgestone Corp. Production of polyurethane foam. 4,696,952, 9-29-87, Cl. 521-107.000.

Shimomura, Kiyoshi: *See*—
Shibashita, Naoaki; Toriya, Hajime; Shimomura, Kiyoshi; Urushidani, Haruo; and Kaneko, Ryoichi, 4,688,385, Cl. 60-646.000.

Shimomura, Manabu, to Kabushikikaisha Hara Shokki Seisakusho. Apparatus for swinging nipper frame of comber. 4,672,717, 6-16-87, Cl. 19-225.000.

Shimomura, Osamu: *See*—
Yoshida, Kunio; Yamanaka, Chiyoe; Sasaki, Takatomo; and Shimomura, Osamu, 4,670,117, Cl. 204-182.400.

Shimomura, Setsuhiro; and Nishimura, Yukinobu, to Mitsubishi Denki Kabushiki Kaisha. RPM control apparatus for internal combustion engine. 4,665,871, 5-19-87, Cl. 123-352.000.

Shimomura, Setsuhiro; and Nishimura, Yukinobu, to Mitsubishi Denki Kabushiki Kaisha. RPM control apparatus for internal combustion engine. 4,667,632, 5-26-87, Cl. 123-339.000.

Shimomura, Setsuhiro: *See*—
Nishikawa, Toshihide; Hanada, Kenichirou; Nishimura, Yukinobu; and Shimomura, Setsuhiro, 4,706,634, Cl. 123-492.000.
Wada, Shunichi; Shimomura, Setsuhiro; Kumagai, Naotake; Takizawa, Shozo; Maruyama, Mitsunori; Tatemoto, Minoru; Takada, Hiroyuki; and Harara, Mitsuhiko, 4,648,622, Cl. 280-707.000.
Wataya, Seiji; Shimomura, Setsuhiro; and Nishimura, Yukinobu, 4,694,806, Cl. 123-494.000.

Shimomura, Tadao: *See*—
Nakaki, Masashi; Terawaki, Katsumi; Shimomura, Tadao; and Kimura, Kazumasa, 4,656,232, Cl. 526-88.000.
Tsubakimoto, Tsuneo; Shimomura, Tadao; and Irie, Yoshio, 4,666,983, Cl. 525-119.000.

Shimomura, Tadashi: *See*—
Yokoo, Sadao; Shimomura, Tadashi; Torisawa, Soichi; Dan, Masahiro; and Kaneda, Tsuyoshi, 4,634,270, Cl. 355-125.000.

Shimomura, Takehiko: *See*—
Ito, Kojiro; Murakami, Kunio; Kishida, Minoru; and Shimomura, Takehiko, 4,668,569, Cl. 428-323.000.

Shimomura, Takeshi; and Takahashi, Tohru, to Terumo Kabushiki Kaisha. Method for plasma-initiated polymerization. 4,705,612, 11-10-87, Cl. 204-165.000.

Shimomura, Yasuo: *See*—
Takeuchi, Kunihiko; Baba, Fujio; Shimomura, Yasuo; and Mershige, Yuji, 4,682,166, Cl. 340-825.500.

Shimomura, Yasushi: *See*—
Kamei, Eiichi; Shimomura, Yasushi; and Yamanaka, Mitsuo, 4,654,265, Cl. 428-398.000.

Shimoni, Moshe: *See*—
Cais, Michael; Shimoni, Moshe; and Baniel, Abrahain, 4,645,747, Cl. 436-500.000.

Shimoni, Yair, to Elscint Ltd. Superinterlacing imaging systems. 4,644,398, 2-17-87, Cl. 358-140.000.

Shimoni, Yair, to Elscint Ltd. Image processing systems and methods. 4,654,795, 3-31-87, Cl. 364-414.000.

Shimoni, Yair; and Fenster, Paul, to Elscint Ltd. Data compression system. 4,654,877, 3-31-87, Cl. 382-56.000.

Shimoni, Yair; Fenster, Paul; and Nissenson, Bilha, to Elscint Ltd. Method of determining stenosis of blood vessels. 4,692,864, 9-8-87, Cl. 364-414.000.

Shimoni, Yair: *See*—
Fenster, Paul; Shimoni, Yair; Nissenson, Bilha; and Alperin, Noam, 4,641,352, Cl. 382-6.000.
Fenster, Paul; and Shimoni, Yair, 4,685,146, Cl. 382-54.000.
Fenster, Paul; and Shimoni, Yair, 4,691,366, Cl. 382-54.000.

Shimono, Mamoru: *See*—
Ishida, Takao; and Shimono, Mamoru, 4,641,947, Cl. 355-3.00R.
Murakami, Reiji; Hashimoto, Shinichi; Shimono, Mamoru; and Ide, Fumito, 4,682,769, Cl. 271-10.000.

Shimonosono, Hitoshi, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like. 4,664,072, 5-12-87, Cl. 123-41.210.

Shimonosono, Hitoshi; Ogawa, Naoki; Fujigaya, Kazuyuki; and Minezaki, Yutaka, to Nissan Motor Co., Ltd. Cooling system for automotive engine or the like including quick cold weather warm-up control. 4,669,427, 6-2-87, Cl. 123-41.270.

Shimonou, Shigeru, to NEC Corporation. Optical information recording and reading apparatus with error correction. 4,648,085, 3-3-87, Cl. 369-54.000.

Shimosato, Masashi; Torisawa, Yoshihiro; Nishikawa, Hisashi; and Endo, Mitsuharu, to Tokyo Electric Co., Ltd. Ink dot printer. 4,646,111, 2-24-87, Cl. 346-140.00R.

Shimosato, Masashi: *See*—
Okuno, Shigeru; Torisawa, Yoshihiro; Endo, Mitsuharu; Nakayama, Tetsuroh; Shimosato, Masashi; and Fukushima, Takafumi. 4,696,589, Cl. 400-119.000.

Shimosato, Yoshio: *See*—
Hashimoto, Kazuyoshi; Nakano, Tsuneo; Arita, Kazutoyo; Fukuyama, Goro; and Shimosato, Yoshio. 4,687,125, Cl. 226-21.000.

Shimosato, Yukio: *See*—
Hirohashi, Setsuo; Shimosato, Yukio; and Watanabe, Masahiko. 4,683,200, Cl. 435-68.000.

Shimotaka, Hisakuni: *See*—
Umeda, Yoshiaki; Matsumoto, Ryouhei; Isomura, Hiroyasu; and Shimotaka, Hisakuni. 4,691,499, Cl. 53-451.000.

Shimotakahara, Masaki: *See*—
Takabayashi, Kuniaki; Takaoka, Yoshitsugu; Hori, Kouichi; Shimotakahara, Masaki; Okada, Kikujiro; and Shiino, Satoru. 4,710,161, Cl. 494-84.000.

Shimotashiro, Masafumi: *See*—
Yamanishi, Kazuhiro; Kobayashi, Masaaki; and Shimotashiro, Masafumi. 4,704,639, Cl. 358-330.000.

Shimotori, Hitoshi: *See*—
Ishikawa, Katsutoshi; Shimotori, Hitoshi; Iida, Noboru; Ozawa, Shuji; and Inami, Shunichi. 4,652,569, Cl. 514-269.000.

Shimotori, Kazuhiro; Fujishima, Kazuyasu; Ozaki, Hideyuki; and Miyatake, Hideshi, to Mitsubishi Denki Kabushiki Kaisha. Auxiliary decoder for semiconductor memory device. 4,641,286, 2-3-87, Cl. 365-230.000.

Shimotori, Kazuhiro: *See*—
Fujishima, Kazuyasu; Shimotori, Kazuhiro; Ozaki, Hideyuki; Miyatake, Hideshi; and Tomisato, Masahiro. 4,658,379, Cl. 365-200.000.
Miyatake, Hideshi; Fujishima, Kazuyasu; and Shimotori, Kazuhiro. 4,694,432, Cl. 365-203.000.

Shimotori, Kazumi: *See*—
Komatsu, Shuichi; Shimotori, Kazumi; Takeda, Hiromitsu; and Nakahashi, Masako. 4,681,251, Cl. 228-208.000.

Shimotu, Tadao: *See*—
Ibori, Satoshi; Shimotu, Tadao; and Yabu, Masatomo. 4,689,542, Cl. 318-778.000.

Shimoya, Shigeo; Iwasaki, Yutaka; Ishii, Tadashi; and Iwasaki, Hikoji, to Kobishi Electric Co., Ltd. Motor actuated buzzer assembly with a plurality of leaf springs of different frequencies. 4,692,741, 9-8-87, Cl. 340-392.000.

Shimoya, Shigeo, to Kobishi Electric Co., Ltd. A.C. alarm buzzer. 4,700,178, 10-13-87, Cl. 340-402.000.

Shimoyama, Akira: *See*—
Harada, Kaoru; Shimoyama, Akira; and Mizumoto, Hiroji. 4,696,981, Cl. 525-328.200.

Shimoyama, Hiroyoshi, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor integrated circuit. 4,673,966, 6-16-87, Cl. 357-68.000.

Shimoyama, Kazuhiko: *See*—
Okamoto, Tadashi; Shimoyama, Kazuhiko; Yamaoka, Hiromasa; and Takakura, Mitsuro. 4,694,419, Cl. 364-900.000.

Shimoyama, Mamoru; and Hoshina, Isamu, to Orihiro Kabushiki Kaisha. Packaging machine. 4,656,818, 4-14-87, Cl. 53-551.000.

Shimoyama, Shin: *See*—
Iizuka, Fumio; Shimoyama, Shin; and Abe, Yoshiaki. 4,668,572, Cl. 428-330.000.

Shimoyama, Tatsuya: *See*—
Sako, Yukinobu; Shimoyama, Tatsuya; and Matsunaga, Yoshinori. 4,670,701, Cl. 320-2.000.

Shimoyama, Yoshiaki: *See*—
Miyoshi, Kunisuke; Shimoyama, Yoshiaki; and Kubota, Takeshi. 4,661,174, Cl. 148-111.000.
Miyoshi, Kunisuke; Shimoyama, Yoshiaki; and Kubota, Takeshi. 4,666,534, Cl. 148-111.000.

Shimoyama, Yujiro: *See*—
Sasaki, Shinji; Shimoyama, Yujiro; and Watanabe, Yoshinori. 4,668,849, Cl. 200-291.000.
Sasaki, Shinji; Shimoyama, Yujiro; and Watanabe, Yoshinori. 4,710,600, Cl. 200-291.000.

Shimozato, Yasuyuki; Tsuchikawa, Syuji; Kimura, Shinichi; and Noro, Masahiko, to Japan Synthetic Rubber Co., Ltd. Heat-resistant copolymer of alpha-methylstyrene and acrylonitrile, process for preparing the same, and thermoplastic resin composition containing the same. 4,659,790, 4-21-87, Cl. 526-87.000.

Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, to Nisshin Steel Co., Ltd.; and Mitsubishi Jukogyo Kabushiki Kaisha. Continuous vacuum deposition apparatus with control panels for regulating width of vapor flow. 4,655,168, 4-7-87, Cl. 118-718.000.

Shimozato, Yoshio: *See*—
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,674,443, Cl. 118-733.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,676,999, Cl. 427-250.000.
Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; and Wada, Tetsuyoshi, 4,643,131, Cl. 118-718.000.

Shimozawa, Tohru: *See*—
Ide, Toshiaki; Shimozawa, Tohru; and Nishimatsu, Masaharu. 4,699,819, Cl. 428-141.000.

Shimozawa, Toru, Nishimatsu, Masaharu; and Saito, Yoshiaki, to TDK Corporation. Magnetic recording medium. 4,702,959, 10-27-87, Cl. 428-323.000.

Shimozi, Kozi; and Teshima, Hitoshi, to Toyota Jidosha Kabusiki Kaisha. Exhaust gas purifier with resilient circumferential sealing member between monolith catalyst and casing. 4,698,213, 10-6-87, Cl. 422-179.000.

Shimozono, Shigeru, to Seikosha Co., Ltd. Small-sized synchronous motor with specific stator coil length to stator coil radius ratios. 4,665,335, 5-12-87, Cl. 310-163.000.

Shimozono, Shigeru, to Seikosha Co., Ltd. Stepping motor for a clock. 4,678,346, 7-7-87, Cl. 368-157.000.

Shimp, Alan B.; and Paice, Derek A., to Westinghouse Electric Corp. Method for testing a circuit breaker using a three terminal current transformer. 4,634,981, 1-6-87, Cl. 324-424.000.

Shimp, Alan B., to Westinghouse Electric Corp. Circuit breaker with interface flux shunt trip. 4,639,701, 1-27-87, Cl. 335-21.000.

Shimp, David A., to Interez, Inc. Blend of tris (cyanatophenyl) alkane and bis(cyanatophenyl) alkane. 4,709,008, 11-24-87, Cl. 528-422.000.

Shimp, David A.: *See*—
Boyd, Jack D.; and Shimp, David A., 4,644,039, Cl. 525-422.000.

Shimpuku, Yoshihide, to Sony Corporation. Magnetic recording device. 4,646,169, 2-24-87, Cl. 360-21.000.

Shimura, Akira: *See*—
Ikeda, Kunihiko; Suzuki, Shigeru; Yokota, Takashi; Shimura, Akira; Kodama, Yutaka; Yamazaki, Shigeru; Niro, Masaichi; and Tomita, Satoru, 4,657,372, Cl. 355-3.00R.

Shimura, Katsumasa; and Nakamura, Tetsuro, to C.K.D. Controls Co., Ltd. Gas solenoid valve. 4,643,394, 2-17-87, Cl. 251-129.080.

Shimura, Masatoshi; Yokoyama, Kunio; Anbo, Kuniaki; and Anzai, Kazuhiro, to Kabushiki Katsha Toshiba. Facsimile device. 4,652,937, 3-24-87, Cl. 358-286.000.

Shimura, Mikihiko: *See*—
Hirano, Masao; Takaoka, Motoaki; and Shimura, Mikihiko, 4,679,157, Cl. 364-557.000.

Shimura, Ryoji; and Seko, Osamu, to Nissan Motor Co., Ltd.; and Ohi Seisakusho Co., Ltd. Door lock device. 4,634,156, 1-6-87, Cl. 292-216.000.

Shimura, Ryoji; and Kato, Yuichi, to Ohi Seisakusho Co., Ltd. Striker for a locking device. 4,650,231, 3-17-87, Cl. 292-340.000.

Shimura, Ryouji: *See*—
Ohmura, Yutaka; and Shimura, Ryouji, 4,674,788, Cl. 296-1.00S.

Shimura, Shinya: *See*—
Iijima, Toshifumi; Yamada, Yoshitaka; Kumashiro, Kenji; Kamio, Takashi; and Shimura, Shinya, 4,701,404, Cl. 430-559.000.

Shimura, Shoichi, to Canon Kabushiki Kaisha. Semi-conductor mounting members for sheet-feeding guide plates and rollers. 4,708,457, 11-24-87, Cl. 355-3.0TR.

Shimura, Susumu: *See*—
Furukawa, Toshiharu; Shimura, Susumu; Takai, Fumio; Sano, Norio; and Ishida, Tomonobu, 4,697,532, Cl. 110-346.000.

Shimura, Takaki; Murakami, Keiichi; Igarashi, Yutaka; Shiba, Akira; Hayashi, Hajime; Miwa, Hirohide; Inoue, Michitoshi; and Matsumoto, Masayuki, to Fujitsu Limited. Ultrasonic diagnosis apparatus for tissue characterization. 4,655,228, 4-7-87, Cl. 128-660.000.

Shimura, Takaki: *See*—
Klepper, John R.; Reid, John M.; Miwa, Hirohide; Shimura, Takaki; and Murakami, Keiichi, 4,648,276, Cl. 73-599.000.

Shimura, Takanori: *See*—
Funabashi, Tsuneo; Iwasaki, Kazuhiko; Yamaguchi, Noboru; Shimura, Takanori; and Tatezaki, Junichi, 4,674,037, Cl. 364-200.000.

Shimura, Tatsuo: *See*—
Wakamiya, Sukeyoshi; Takeuchi, Naokazu; Hama, Yoshihisa; Akashi, Tatsu; and Shimura, Tatsuo, 4,666,394, Cl. 425-342.100.

Shimura, Yoshiharu: *See*—
Kuwabara, Takashi; Shimura, Yoshiharu; Hayashi, Yuko; Hanamure, Toshiyuki; Kanemori, Kaoru; and Yamakawa, Yoshihiro, 4,711,098, Cl. 62-441.000.

Shimura, Yukio: *See*—
Asai, Michihiko; Shimura, Yukio; Tsuda, Keishiro; Ueno, Susumu; Nomura, Hirokazu; and Imada, Kiyoshi, 4,639,379, Cl. 427-40.000.

Shin, Baek K.: *See*—
Kim, Myung K.; Lee, Se Eun; and Shin, Baek K., 4,674,281, Cl. 60-496.000.

Shin-Etsu Chemical Co., Ltd.: *See*—
Arai, Masatoshi; Inoue, Takeo; and Sato, Shinichi, 4,652,661, Cl. 549-214.000.
Asai, Michihiko; Shimura, Yukio; Tsuda, Keishiro; Ueno, Susumu; Nomura, Hirokazu; and Imada, Kiyoshi, 4,639,379, Cl. 427-40.000.
Endo, Morinobu; Takamizawa, Minoru; Hongu, Tatsuhiko; and Kobayashi, Taishi, 4,676,966, Cl. 423-345.000.
Fujiki, Hironao; Yamaguchi, Koichi; and Yamamoto, Yasushi, 4,673,621, Cl. 428-420.000.

Fujimoto, Teruo; Kazama, Takeo; Takamizawa, Minoru; and Yamamoto, Akira, 4,636,454, Cl. 430-197.000.
Hida, Yoshinori; and Kozakai, Shohei, 4,683,320, Cl. 556-453.000.
Hida, Yoshinori; Meguriya, Noriyuki; and Yoshida, Akira, 4,697,877, Cl. 350-96.300.
Imai, Kiyokazu; Shiomi, Tomoo; and Tezuka, Yasuyuki, 4,694,077, Cl. 536-92.000.
Inoue, Yoshio, 4,658,006, Cl. 528-29.000.
Inoue, Yoshio; Arai, Masatoshi; Inoue, Takeo; Yaginuma, Atsushi; and Tomizawa, Tetsuo, 4,675,365, Cl. 525-408.000.
Inoue, Yoshio; Arai, Masatoshi; and Sato, Shinichi, 4,689,363, Cl. 524-394.000.
Inoue, Yoshio; Arai, Masatoshi; and Inoue, Takeo, 4,695,603, Cl. 524-723.000.
Inoue, Yoshio; Arai, Masatoshi; Sato, Shinichi; and Yokoo, Koji, 4,695,617, Cl. 528-32.000.
Itoh, Kenichi; Noguki, Genji; Tanaka, Motoaki; and Ohba, Hitoshi, 4,694,053, Cl. 526-74.000.
Itoh, Kenichi; Noguki, Genji; and Nakahara, Masanobu, 4,694,055, Cl. 526-201.000.
Itoh, Koichi; and Nishimura, Yoshiaki, 4,654,328, Cl. 514-63.000.
Itoh, Koichi; and Nishimura, Yoshiaki, 4,656,162, Cl. 514-63.000.
Itoh, Kunio; Kozakai, Shohei; Hida, Yoshinori; Okinoshima, Hiroshige; Okada, Fumio; Oba, Toshio; Shimizu, Hisashi; Hinoto, Yuji; and Yoshioka, Hiroshi, 4,678,688, Cl. 427-387.000.
Itoh, Kunio; Imai, Kiyoshi; Yoshida, Takeo; and Fukushima, Motoo, 4,678,827, Cl. 524-188.000.
Itoh, Kunio; Shiobara, Toshio; Futatsumori, Koji; Tomiyoshi, Kazutoshi; and Shimizu, Hisashi, 4,701,482, Cl. 523-43.000.
Itoh, Kunio; Okada, Fumio; Yamamoto, Yasushi; and Aoki, Hisashi, 4,707,503, Cl. 522-99.000.
Itoh, Kunio; Fukuda, Takeshi; and Yoshioka, Hiroshi, 4,714,733, Cl. 524-493.000.
Kondow, Kiyohiro; Takasaka, Nobuo; and Hida, Yoshinori, 4,660,927, Cl. 350-96.340.
Kondow, Kiyohiro; Mihama, Takeshi; Hara, Yasuaki; Aoki, Hisashi; and Hasebe, Nobuyuki, 4,689,384, Cl. 528-15.000.
Koya, Kazuo; and Konya, Yoshiharu, 4,650,511, Cl. 65-30.100.
Mori, Shigeru; and Takahashi, Takayuki, 4,701,272, Cl. 252-28.000.
Nakamura, Tsutomu; and Imai, Kiyoshi, 4,678,828, Cl. 524-265.000.
Nishimura, Yoshiaki; Okinoshima, Hiroshige; Yamada, Seiya; and Kashiwagi, Tsutomu, 4,650,849, Cl. 528-26.000.
Okada, Fumio; Oba, Toshio; and Nakazato, Morizo, 4,670,309, Cl. 427-387.000.
Okada, Fumio; Tanaka, Masaki; and Ohashi, Hiroshi, 4,677,178, Cl. 528-34.000.
Okinoshima, Hiroshige, 4,654,408, Cl. 528-15.000.
Sasaki, Isao; Yanagase, Akira; Kawachi, Yasunori; Mayuzumi, Tetsuya; Oba, Toshio; and Okada, Fumio, 4,690,986, Cl. 525-479.000.
Seino, Masanori, 4,695,597, Cl. 521-154.000.
Shimizu, Toshihide; Kaneko, Ichiro; Watanabe, Mikio; and Shimakura, Yoshiteru, 4,708,890, Cl. 427-230.000.
Shinohara, Toshio; Ogawa, Masahiko; and Yokoo, Akio, 4,659,852, Cl. 556-476.000.
Shinohara, Toshio; and Inoue, Yoshifumi, 4,663,471, Cl. 556-411.000.
Shiobara, Toshio; and Tomiyoshi, Kazutoshi, 4,701,479, Cl. 523-220.000.
Suzuki, Niichiro; Ogushi, Yoshimi; Imai, Kiyoshi; Ohta, Nobuhiro; and Ueno, Susumu, 4,639,285, Cl. 156-272.600.
Takago, Toshio; Yamamoto, Yasushi; Yamaguchi, Koichi; and Kato, Hideto, 4,652,663, Cl. 549-215.000.
Takamizawa, Minoru; Yamamoto, Akira; Ishihara, Toshinobu; and Nagura, Shigehiro, 4,649,185, Cl. 526-279.000.
Takamizawa, Minoru; Kobayashi, Taishi; Ishihara, Toshinobu; Takeda, Yoshifumi; and Hayashida, Akira, 4,657,991, Cl. 525-477.000.
Takamizawa, Minoru; Yamamoto, Akira; and Nagura, Shigehiro, 4,689,267, Cl. 428-376.000.
Takarada, Mitsuhiro; Ishii, Hiroshi; Arai, Yutaka; and Hamano, Takashi, 4,657,951, Cl. 523-153.000.
Tanaka, Masaki; and Ichinohe, Shoji, 4,680,366, Cl. 528-27.000.
Tawara, Yoshio; and Ohashi, Ken, 4,678,634, Cl. 419-30.000.
Terae, Nobuyuki; Yamaya, Masaaki; and Okada, Fumio, 4,690,713, Cl. 106-287.160.
Ueno, Susumu; Kuroda, Kouiti; Nomura, Hirokazu; and Tateno, Shigeru, 4,637,851, Cl. 156-272.600.
Ueno, Susumu; Hoshida, Shigehiro; and Nomura, Hirokazu, 4,664,936, Cl. 427-38.000.
Yokokawa, Kiyoshi; and Koya, Kazuo, 4,690,504, Cl. 350-96.340.
Yokota, Tohru; Inoue, Kaname; Kitamura, Hajime; Isobe, Kenichi; Ichinohe, Shoji; and Yanagisawa, Takeji, 4,665,145, Cl. 526-279.000.
Yoshioka, Hiroshi; Ono, Ichiro; and Uehara, Hitoshi, 4,709,065, Cl. 556-428.000.

Shin-Etsu Polymer Co., Ltd.: *See*—
Kawaguchi, Toshiyuki; Suzuki, Hideki; and Usuda, Tsuneo, 4,701,279, Cl. 252-511.000.

Shin-Etsu Vinyl Acetate Co., Ltd.: *See*—
Honma, Yoshihiro; Kawamoto, Fumiaki; and Tanaka, Shozo, 4,661,208, Cl. 203-15.000.

Shin, Kju H., to Ethyl Corporation. Process for preparing arylisothiocyanates. 4,636,574, 1-13-87, Cl. 558-18.000.

Shin, Kju H., to Ethyl Corporation. Preparation of diphenolics. 4,692,555, 9-8-87, Cl. 568-722.000.

Shin-Kobe Electric Machinery Co. Ltd.: *See*—
Hammura, Hisao; Echizen, Tetsuro; and Sanada, Yoshio, 4,707,691, Cl. 340-754.000.

Shin-Kobe Machinery Co., Ltd.: *See*—
Komaki, Akio; Hayakawa, Takumi; Yoneda, Tadashi; Miura, Asahiko; Wada, Hironao; Matsubayashi, Satoshi; and Takemasa, Arihiko, 4,652,505, Cl. 429-131.000.

Shin Meiwa Industry Co., Ltd.: *See*—
Koyama, Hideo; Asano, Takahiro; Noguchi, Fumio; and Fujinaga, Shigeki, 4,689,756, Cl. 364-513.000.
Yoshida, Koji, 4,715,099, Cl. 29-33.00M.

Shin, Myung Chul; Kim, Chil Sung; Chung, Young Hoon; and Jee, Kwang Koo, to Korea Advanced Institute of Science & Technology. Twin-crank type heat engine. 4,683,721, 8-4-87, Cl. 60-527.000.

Shin Nenryoyu Kaihatsu Gijutsu Kenkyu Kumiai: *See*—
Takasawa, Seigo; and Morikawa, Yasushi, 4,634,670, Cl. 435-209.000.

Shin Nihon Kohan Co., Ltd.: *See*—
Imaeda, Fumihiro; and Imaeda, Yoshio, 4,695,033, Cl. 249-189.000.

Shin Nihon Koku Seibi Co., Ltd.: *See*—
Shibata, Yoji, 4,679,277, Cl. 16-354.000.

Shin Nisso Kako Co., Ltd.: *See*—
Obitsu, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Satoh, Shinichi, 4,680,598, Cl. 503-217.000.
Obitsu, Takeo; Igaki, Tetsuo; Kinoshita, Kimiaki; Nanbu, Morio; and Satoh, Shinichi, 4,687,862, Cl. 549-224.000.
Yahagi, Masakichi; Igaki, Tetsuo; Yosinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,642,357, Cl. 549-226.000.
Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,665,199, Cl. 549-226.000.
Yahagi, Masakichi; Obitsu, Takeo; Igaki, Tetsuo; Horisawa, Kazuyuki; Nanbu, Morio; Kinoshita, Kimiaki; and Manaka, Sumio, 4,668,967, Cl. 346-221.000.
Yahagi, Masakichi; Horiuchi, Shoichi; Toyama, Takahumi; Kashiwagi, Akio; Suzuki, Teruo; Igaki, Tetsuo; Horisawa, Kazuyuki; and Shoji, Mituhiro, 4,677,203, Cl. 546-15.000.
Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Shinji; Kinoshita, Kimiaki; Saito, Morikuni; Yamashita, Toshiyuki; and Nanbu, Morio, 4,695,640, Cl. 549-226.000.

Shin, Sang J. Box with removable decorative figures. 4,648,548, 3-10-87, Cl. 229-8.000.

Shin, Shigeo; Takatsu, Tamao; Saito, Teiichiro; Kikuchi, Akiyoshi; and Nakanishi, Tsuneo, to Nippon Welding Rod Co., Ltd.; Fuji Electric Company Ltd.; and Fuji Electric Corporate Research and Development Co., Ltd. Filler for welding a heat resistant nickel-base alloy. 4,673,123, 6-16-87, Cl. 228-263.130.

Shin, Tokujirou, to Tsudakoma Corp. Incomplete weft removing device for shuttleless loom. 4,664,157, 5-12-87, Cl. 139-116.000.

Shin, Yasuo; and Tanabe, Takeshi, to Sharp Kabushiki Kaisha. Aging treatment for semiconductor gas sensor. 4,691,186, 9-1-87, Cl. 338-34.000.

Shin, Yoon K., to Mercury International Trading Corp. Shoe design. 4,658,514, 4-21-87, Cl. 36-30.00R.

Shinabe, Munehiro: *See*—
Ito, Katsu; Shinabe, Munehiro; Miyajima, Akira; Hashimoto, Nobuyuki; Ohno, Hideshi; Tsuzuki, Akira; Morokawa, Shigeru; and Natori, Minoru, 4,663,670, Cl. 358-245.000.

Shinada, Haruji: *See*—
Higashi, Akio; Shinada, Haruji; Kawajiri, Kazuhiro; Ono, Yoshihiro; Saitou, Mitsuo; Tamura, Hiroshi; and Ikeda, Mitsuru, 4,694,317, Cl. 357-30.000.
Kawajiri, Kazuhiro; Tamura, Hiroshi; Shinada, Haruji; Saito, Mitsuo; and Mizobuchi, Yuzo, 4,714,950, Cl. 357-30.000.

Shinada, Hidetoshi, to Thomson-CSF. Method of detecting a drift amount in two-dimensionally scanning a form slide film and a detecting apparatus. 4,707,710, 11-17-87, Cl. 346-108.000.

Shinada, Hidetoshi: *See*—
Arai, Noboru; and Shinada, Hidetoshi, 4,667,099, Cl. 250-235.000.

Shinada, Manabu, to Kabushiki Kaisha Riken. Piston ring. 4,681,817, 7-21-87, Cl. 428-549.000.

Shinada, Masayuki: *See*—
Ito, Masaji; Midorikawa, Akira; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,682,158, Cl. 340-679.000.
Midorikawa, Akira; Ito, Masaji; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,677,310, Cl. 307-64.000.

Shinada, Shinichi: *See*—
Okamoto, Yukio; and Shinada, Shinichi, 4,692,666, Cl. 315-169.400.

Shinagawa, Hideo: *See*—
Nakata, Atsuo; and Shinagawa, Hideo, 4,703,005, Cl. 435-68.000.

Shinagawa, Katsumi, to Sanden Corporation. Multi-windowpane structure for use in a temperature controlled environment. 4,658,553, 4-21-87 Cl. 52-172.000.

Shiragawa, Katsumi, to Sanden Corporation. Temperature controlled display case. 4,660,903, 4-28-87, Cl. 312-116.000.

Shinagawa, Kiminari: *See*—
Nakamura, Hitoshi; Shiiki, Kasuo; Yuito, Isamu; Shiroishi, Yoshihiro; Fujiwara, Hideo; Shinagawa, Kiminari; and Iijima, Akemi, 4,636,897, Cl. 360-119.000.
Shiiki, Kazuo; Shiroishi, Yoshihiro; Yuito, Isamu; Shinagawa, Kiminari; and Fujiwara, Hideo, 4,651,248, Cl. 360-119.000.

Shinagawa Refractories Co., Ltd.: *See*—
Kyoden, Hiroshi; Endo, Yasuhiro; Fujiwara, Teiichi; Mimura, Toshisada; Nishikawa, Kihachiro; and Nishizawa, Shoichi, 4,636,969, Cl. 364-560.000.
Mori, Masashi; Nonaka, Shingo; and Nagai, Seiji, 4,695,167, Cl. 366-181.000.
Toda, Masumi; Ozaki, Yukio; and Nonaka, Shingo, 4,638,945, Cl. 239-143.000.

Shinagawa Shoko Co., Ltd.: *See*—
Nakamura, Toshinobu, 4,660,914, Cl. 339-59.00R.
Nakamura, Toshinobu, 4,681,288, Cl. 248-71.000.

Shinagawa, Yukio: *See*—
Kataoka, Shinzi; Shinagawa, Yukio; and Sakaguchi, Shinji, 4,659,607, Cl. 428-143.000.

Shinanjuk, Alla F. *See*—
Lozinsky, Miron O.; Bobkov, Jury G.; Shinanjuk, Alla F.; Gevaza, Jury I.; Markovsky, Leonid N.; Kuznetsova, Galina A.; Markin, Valentin A.; Kleimenova, Natalya N.; Tentsova, Antonina I.; Motalov, Alexandr N.; Seredinin, Sergei B.; Katkov, Vladimir F.; Vinogradov, Vasily M.; and Kulinsky, Vladimir I., 4,691,046, Cl. 560-196.000.

Shinano Electric Co., Ltd.: *See*—
Sekino, Yoshihiro; Aoki, Masayuki; and Hotaka, Nobuhiro, 4,646,221, Cl. 363-41.000.

Shinano, Kunizo: *See*—
Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.

Shinano Tokki Corporation: *See*—
Yazaki, Asao; Sunaba, Takashi; and Takemura, Yoshihiro, 4,703,211, Cl. 310-179.000.

Shinaro Electric Co., Ltd.: *See*—
Hotaka, Nobuhiro, 4,660,137, Cl. 363-56.000.

Shinbo, Shintaro; and Saito, Yasuo, to Nippon Seiki Corporation. Device for illuminating measuring instruments. 4,656,561, 4-7-87, Cl. 362-30.000.

Shinbori, Osamu: *See*—
Mimura, Yoshinori; Tokiwa, Hideharu; Shinbori, Osamu; and Nakai, Tetsuya, 4,674,835, Cl. 350-96.340.

Shinbori, Yoshiaki, to Casio Computer Co., Ltd. Layout display device of electronic printer. 4,661,000, 4-28-87, Cl. 400-83.000.

Shinbrot, Troy, to Xerox Corporation. Page flipper for book copying. 4,663,873, 5-12-87, Cl. 40-531.000.

Shinbrot, Troy, to Xerox Corporation. Frictionless vacuum feeder for book copying. 4,673,286, 6-16-87, Cl. 355-25.000.

Shinbrot, Troy; and Kuo, Youti, to Xerox Corporation. Document feeder for moving platen copiers. 4,707,113, 11-17-87, Cl. 355-14.0SH.

Shinbrot, Troy: *See*—
Garavuso, Gerald M.; and Shinbrot, Troy, 4,693,594, Cl. 355-25.000.

Shinchi, Takashi: *See*—
Kano, Hidekazu; Shinchi, Takashi; and Hosoi, Shuichi, 4,711,217, Cl. 123-491.000.

Shindler, Geoffrey A., executor: *See*—
Waller, Martin; Farrell, Geoffrey; Mills, Kenneth W., deceased; Mason, Margaret, executor; and Shindler, Geoffrey A., executor, 4,683,028, Cl. 162-275.000.

Shindo, Hirohisa: *See*—
Takada, Susumu; Sasatani, Takashi; Shindo, Hirohisa; Matsushita, Akira; and Eigyo, Masami, 4,690,930, Cl. 514-293.000.

Shindo, Isao: *See*—
Mitsumaki, Hiroshi; Ono, Naoya; Shindo, Isao; and Takano, Nobuyoshi, 4,696,183, Cl. 73-19.000.

Shindo, Osamu, to Asahi Kogaku Kogyo Kabushiki Kaisha. Optical system for use in focus detecting apparatus. 4,716,431, 12-29-87, Cl. 354-407.000.

Shindo, Osamu: *See*—
Shirayanagi, Moriyasu; Shindo, Osamu; Aiura, Hirochika; and Hara, Tadao, 4,637,720, Cl. 356-125.000.

Shindo, Shuko: *See*—
Ebisawa, Makoto; Shindo, Shuko; Hashizume, Kenichi; and Isa, Isao, 4,688,153, Cl. 361-433.000.

Shindo, Yasushi; and Kurita, Toshiaki, to Tomy Kogyo Co., Inc. Toy for use with infant furniture. 4,664,640, 5-12-87, Cl. 446-227.000.

Shindo, Yoshio; and Iwatsuki, Kunihiro, to Toyota Jidosha Kabushiki Kaisha. Shift control system of automatic transmission. 4,674,364, 6-23-87, Cl. 74-867.000.

Shindo, Yoshio: *See*—
Sumiya, Koji; Sakaguchi, Yoshikazu; Taniguchi, Takuji; Taga, Yutaka; and Shindo, Yoshio, 4,697,474, Cl. 74-733.000.

Shindou, Norikazu, to Tokyo Juki Industrial Co., Ltd. Moving element body apparatus of linear motor and method for producing it. 4,694,209, 9-15-87, Cl. 310-12.000.

Shindou, Toshiaki: *See*—
Tomatsu, Toshiaki; and Shindou, Toshiaki, 4,667,492, Cl. 70-261.000.

Shindou, Yoshio; Oka, Joji; Taira, Taketoshi; Miyauchi, Yujiro; and Yamazaki, Fumio, to Nippon Steel Corporation. Anticorrosive weldable coated steel. 4,705,726, 11-10-87, Cl. 428-562.000.

Shindou, Yoshio: *See*—
Taniguchi, Hiroji; Iwatsuki, Kunihiro; and Shindou, Yoshio, 4,690,017, Cl. 74-866.000.

Shine, John: *See*—
Rutter, William J.; Pictet, Raymond; Chirgwin, John; Goodman, Howard M.; Ullrich, Axel; and Shine, John, 4,652,525, Cl. 435-253.000.

Shingaki, Seiichi: *See*—
Ohmi, Shigeaki; Shingaki, Seiichi; Sakai, Hiroyuki; and Asahara, Yoshiyuki, 4,640,699, Cl. 65-3.150.

Shingawa Daikasuto Kogyo Kabushiki Kaisha: *See*—
Araki, Satoru, 4,648,998, Cl. 261-34.200.

Shingo, Yoshioki: *See*—
Hasegawa, Masatake; Kobayashi, Hirotada; Sunazuka, Hideo; Yoshino, Akira; Matsuda, Takao; and Shingo, Yoshioki, 4,671,896, Cl. 252-609.000.

Shingu Shoko, Ltd.: *See*—
Ota, Keizo, 4,672,798, Cl. 56-12.700.

Shinguryo, Satoshi: *See*—
Adachi, Tsukasa; Shinguryo, Satoshi; Furuta, Hideya; Sakai, Yoshihiro; Ikeda, Itsuo; and Sakai, Katsuo, 4,655,579, Cl. 355-4.000.
Mochizuki, Manabu; Ikeda, Itsuo; Kurotori, Tsuneo; Shinguryo, Satoshi; Miyakawa, Seiichi; Kobayashi, Yuichi; Nonaka, Mitsuhiro; and Fukuda, Haruhiko, 4,669,859, Cl. 355-10.000.
Sakai, Yoshihiro; Ikeda, Ituso; Sakai, Katsuo; Adachi, Tsukasa; Shinguryo, Satoshi; and Furuta, Hideya, 4,690,541, Cl. 355-4.000.

Shini, Masami, to Fuji Kagakushi Kogyo Co., Ltd. Multiple-use pressure-sensitive transfer recording media. 4,713,281, 12-15-87, Cl. 428-207.000.

Shinitzky, Meir; Heron, David; and Samuel, David, to Yeda Research and Development Co., Ltd. Medical processes employing a novel lipid fraction. 4,677,099, 6-30-87, Cl. 514-78.000.

Shinitzky, Meir: *See*—
Cohen, Irun R.; and Shinitzky, Meir, 4,634,590, Cl. 424-88.000.

Shinji, Akira: *See*—
Yamanami, Masabumi; Takase, Kahei; Shinji, Akira; Mimura, Toru; Torii, Kunio; Kobayashi, Takaaki; Okutsu, Masaru; and Meguro, Takashi, 4,656,194, Cl. 514-693.000.

Shinji, Noshi; and Matsushima, Akio, to Murata Kikai Kabushiki Kaisha. Paper tube supply system. 4,688,735, 8-25-87, Cl. 242-35.50A.

Shinjo, Katsumi, to Yugen Kaisha Shinjoseisakusho. Self-piercing nut. 4,690,599, 9-1-87, Cl. 411-180.000.

Shinjo, Masayoshi: *See*—
Enjo, Naonori; Shinjo, Masayoshi; Okazaki, Yasuko; and Hayashi, Kazunori, 4,685,967, Cl. 106-13.000.
Fukui, Shosin; Shinjo, Masayoshi; Aoyama, Hirokazu; Okazaki, Yasuko; Enjo, Naonori; and Hayashi, Kazunori, 4,673,712, Cl. 526-253.000.

Shinkai, Etsuro: *See*—
Matsuda, Noriaki; and Shinkai, Etsuro, 4,656,139, Cl. 436-17.000.

Shinkai, Hiroshi: *See*—
Ina, Hideki; and Shinkai, Hiroshi, 4,669,883, Cl. 356-401.000.

Shinkai, Hiroyuki: *See*—
Mochida, Ei; Shinkai, Hiroyuki; Kudo, Takashi; and Sugawara, Toshiyuki, 4,690,908, Cl. 436-518.000.

Shinkai, Kinya, to Sony Corporation. Beam index color cathode ray tube with color-identifying patterns of stripes disposed in beam run-in area of display surface. 4,635,106, 1-6-87, Cl. 358-68.000.

Shinkai, Mitsutoshi, to Sony Corporation. Optical disc player with improved initial positioning operation. 4,697,256, 9-29-87, Cl. 369-32.000.

Shinkai, Mitsutoshi, to Sony Corporation. Tracking control with two servoloops for use in optical disc players. 4,700,334, 10-13-87, Cl. 369-44.000.

Shinkai, Yasuo: *See*—
Kazaoka, Kenichi; Wakamatsu, Fumio; and Shinkai, Yasuo, 4,711,497, Cl. 297-458.000.

Shinkawa, Hiroyasu: *See*—
Aoki, Katsumichi; Shida, Takafumi; Kanda, Yoichi; Satake, Keigo; Shinkawa, Hiroyasu; and Yamazaki, Shiro, 4,650,515, Cl. 71-90.000.
Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, 4,690,704, Cl. 71-90.000.

Shinkawa, Keiro: *See*—
Noda, Tsutomu; Shinkawa, Keiro; and Amada, Nobutaka, 4,642,573, Cl. 329-50.000.
Yamamoto, Akio; and Shinkawa, Keiro, 4,713,556, Cl. 307-219.100.

Shinkawa, Masaki, to Harada Kogyo Kabushiki Kaisha. Extensible rod antenna for vehicles. 4,660,049, 4-21-87, Cl. 343-715.000.

Shinko Denshi Company Limited: *See*—
Nomura, Misao; and Fujioka, Utaro, 4,662,464, Cl. 177-229.000.

Shinko Electric Co., Ltd.: *See*—
Karita, Mitsuji, 4,698,876, Cl. 16-102.000.
Karita, Mitsuji, 4,700,119, Cl. 318-587.000.
Maruyama, Toshiki; Nakagawa, Hiroshi; and Maeda, Minoru, 4,661,730, Cl. 310-12.000.
Mochizuki, Asahi; Ozawa, Akira; Fujita, Shinichiro; and Yamada, Kuniaki, 4,696,446, Cl. 246-169.00S.
Nakagawa, Hiroshi; Iwamoto, Hiroshi; Kanada, Hiroshi; Kato, Kazumichi; and Kurita, Yutaka, 4,668,883, Cl. 310-12.000.
Nakagawa, Hiroshi, 4,709,174, Cl. 310-12.000.
Nakagawa, Hiroshi, 4,709,175, Cl. 310-12.000.
Ogita, Akira; and Tanaka, Masaaki, 4,705,386, Cl. 355-4.000.
Okubo, Kunio; and Yamashita, Takashi, 4,685,657, Cl. 266-234.000.
Toida, Akikazu; Iwata, Satoshi; Takahashi, Fumio; and Mimura, Takanobu, 4,707,703, Cl. 346-1.100.

Shinko Electric Industries Co., Ltd.: *See*—
Obinata, Hiroaki; Imai, Kunihiko; and Sunohara, Masayuki, 4,675,243, Cl. 428-210.000.

Shinko Kosen Kogyo Kabushiki Kaisha: *See*—
Akiyama, Shigeru; Ueno, Hidetoshi; Imagawa, Koji; Kitahara, Akira; Nagata, Sumio; Morimoto, Kazuo; Nishikawa, Tooru; and Itoh, Masao, 4,713,277, Cl. 428-131.000.
Tomioka, Hiroyuki; Nakata, Mitsuo; Kusakawa, Nobuhiro; and Torigoe, Kaname, 4,642,979, Cl. 57-264.000.

Shinko-Pfaudler Company, Ltd.: *See*—
Takahashi, Haruji; Goto, Shigeo; Takata, Syuichi; Shibata, Mitsuaki; and Hata, Tomihira, 4,661,171, Cl. 148-6.350.

Shinko Seito Co., Ltd.: *See*—
Inada, Shoshichiro; Furukawa, Kurune; Masui, Takachika; Honda, Keijiro; Ogasawara, Joji; and Tsubakimoto, Giichi, 4,714,791, Cl. 568-913.000.

Shinko Sugar Production Co., Ltd.: *See*—
Inada, Shoshichiro; Furukawa, Kurune; Masui, Takachika; Honda, Keijiro; Ogasawara, Joji; and Tsubakimoto, Giichi, 4,714,791, Cl. 568-913.000.

Shinmei, Katsumasa; and Niikura, Kazuo, to Hitachi, Ltd. Method of starting a variable-speed pump turbine or a variable speed pump. 4,708,594, 11-24-87, Cl. 417-53.000.

Shinmi, Akira: *See*—
Takagi, Hiroshi; Shinmi, Akira; and Suzuki, Kenji, 4,673,612, Cl. 428-216.000.

Shinmitsu, Kazuyuki: *See*—
Shioi, Shunsuke; Shinmitsu, Kazuyuki; Kanda, Nobuo; Kondo, Mitsuru; and Miyake, Makoto, 4,704,379, Cl. 503-211.000.

Shinmoto, Hiroshi: *See*—
Kawakami, Hiroshi; Shinmoto, Hiroshi; Dosako, Shunichi; and Ahiko, Kenkichi, 4,668,771, Cl. 530-366.000.

Shinmoto, Jitsumi; and Taguchi, Takeo, to Tomi Machinery Manufacturing Co., Ltd. Method and an apparatus for cooling and guiding thermoplastic synthetic resin films. 4,655,988, 4-7-87, Cl. 264-566.000.

Shinmura, Tetsuya: *See*—
Aoyagi, Tatsuhiro, and Shinmura, Tetsuya, 4,647,622, Cl. 525-84.000.

Shinmura, Yoshihito: *See*—
Nakano, Harumi; and Shinmura, Yoshihito, 4,677,569, Cl. 364-513.500.

Shinmura, Yoshinori: *See*—
Tsujiuchi, Toshio; Shinmura, Yoshinori; and Oda, Yukio, 4,711,054, Cl. 51-165.770.

Shinmyo, Saburo, to NEC Corporation. Multidirection multiplex communication systems. 4,653,049, 3-24-87, Cl. 370-95.000.

Shinn, Alan L., to Humphrey Instruments, Inc. Light pen having actuating accelerometer. 4,695,831, 9-22-87, Cl. 340-707.000.

Shinn Fu Corporation: *See*—
Hung, Michael, 4,703,916, Cl. 254-93.00H.
Lin, Jui-Chin, 4,705,493, Cl. 474-69.000.

Shinnenryoyu Kaihatsugijutsu Kenkyukumiai: *See*—
Akabane, Toshiaki; and Satoh, Arimasa, 4,645,569, Cl. 203-19.000.
Inoi, Takeshi; Akabane, Toshiaki; Kurokawa, Yasuhiro; and Matsuoka, Shingo, 4,642,287, Cl. 435-99.000.

Shinnick, Thomas M.; Minden, Percy; and Houghten, Richard A., to Scripps Clinic and Research Foundation. Synthetic polypeptides for detecting mycobacterial infections. 4,689,397, 8-25-87, Cl. 530-327.000.

Shinno, Kouji; and Kuboki, Hitoshi, to Terumo Kabushiki Kaisha. Medical instrument. 4,695,276, 9-22-87, Cl. 604-283.000.

Shinno, Yoshio, to Kubota Ltd. Governor device for an air-fuel mixture suction type engine. 4,669,437, 6-2-87, Cl. 123-376.000.

Shinno, Yoshio: *See*—
Sugahara, Kooichi; Shinno, Yoshio; and Kimoto, Kiyoharu, 4,712,519, Cl. 123-52.00M.

Shino, Satoshi; Sasahara, Akira; Ishikawa, Kiyoshi; Shibasaki, Shigeru; and Takashina, Shinji, to Xerox Corporation. Paper feeding apparatus for a copying machine/printer. 4,660,820, 4-28-87, Cl. 271-9.000.

Shinobu, Okitsugu: *See*—
Hamazaki, Takeru; Hashimoto, Noboru; and Shinobu, Okitsugu, 4,655,242, Cl. 137-247.270.

Shinoda, Akibumi; Yoshioka, Yukio; and Kato, Akio, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Load lifting unit for a lift truck. 4,657,471, 4-14-87, Cl. 414-663.000.

Shinoda, Gen. Portable engine-blower supporting device. 4,657,477, 4-14-87, Cl. 415-126.000.

Shinoda, Hideho: *See*—
Endo, Shinichi; Kimata, Kunio; Shinoda, Hideho; and Ogita, Kunio, 4,656,334, Cl. 219-212.000.
Endo, Shinichi; Shinoda, Hideho; and Kimata, Kunio, 4,658,119, Cl. 219-492.000.
Kishimoto, Yoshio; and Shinoda, Hideho, 4,672,176, Cl. 219-212.000.
Yamamoto, Shuji; Kishimoto, Yoshio; Terakado, Seishi; and Shinoda, Hideho, 4,661,690, Cl. 219-549.000.

Shinoda, Hidenori: *See*—
Watanabe, Sadakazu; and Shinoda, Hidenori, 4,653,097, Cl. 381-42.000.

Shinoda, Hirotaka: *See*—
Irikura, Tsutomu; Suzue, Seigo; Uchida, Hiroaki; Shinoda, Hirotaka; Murayama, Satoshi; and Kinoshita, Susumu, 4,649,198, Cl. 544-281.000.

Shinoda, Kazunori: *See*—
Kinoshita, Katsuyuki; Shinoda, Kazunori; Sugiyama, Masaru; Ooba, Kouichiro; and Suzuki, Yoshiji, 4,677,341, Cl. 315-12.100.

Shinoda, Masaki: *See*—
Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.

Shinoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Omoto, Setsuo; and Okino, Susumu, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of treating exhaust gases. 4,675,167, 6-23-87, Cl. 423-242.000.

Shinoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Okino, Susumu; and Shimizu, Taku, to Mitsubishi Jukogyo Kabushiki Kaisha. Method for treating SO_2, SO_3 and dust simultaneously. 4,696,804, 9-29-87, Cl. 423-242.000.

Shinoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Okino, Susumu; and Shimizu, Taku, to Mitsubishi Jukogyo Kabushiki Kaisha. Method for desulfurizing exhaust gas. 4,696,805, 9-29-87, Cl. 423-242.000.

Shinoda, Nobuhiko, to Canon Kabushiki Kaisha. Automatic focusing device with range boundary setting. 4,639,588, 1-27-87, Cl. 250-201.000.

Shinoda, Nobuhiko; Sakurada, Nobuaki; Kawamura, Masaharu; Ito, Tadashi; Ito, Fumio; and Murakami, Hiroyashu, to Canon Kabushiki Kaisha. Camera system. 4,664,496, 5-12-87, Cl. 354-420.000.

Shinoda, Nobuhiko: *See*—
Iwashita, Tomonori; Shinoda, Nobuhiko; and Yamada, Akira, 4,699,492, Cl. 354-289.100.
Sakai, Shinji; Shinoda, Nobuhiko; Hosoe, Kazuya; and Kinoshita, Takao, 4,641,942, Cl. 354-406.000.

Shinoda, Takamitu: *See*—
Kanou, Kazuo; Shinoda, Takamitu; and Kanbara, Yukio, 4,712,411, Cl. 524-560.000.

Shinoda, Takashi; and Sakai, Osamu, to Hitachi, Ltd. Semiconductor memory with an improved dummy cell arrangement and with a built-in error correcting code circuit. 4,703,453, 10-27-87, Cl. 365-104.000.

Shinoda, Takashi: *See*—
Oishi, Kanji; and Shinoda, Takashi, 4,680,737, Cl. 365-222.000.

Shinoda, Tsutae; and Niinuma, Atsuo, to Fujitsu Limited. Gas discharge panel and method for driving the same. 4,638,218, 1-20-87, Cl. 315-169.400.

Shinoda, Tsutae; Miyashita, Yoshinori; Sugimoto, Yoshimi; Sei, Hideo; and Andoh, Shizuo, to Fujitsu Limited. Gas discharge panel. 4,697,123, 9-29-87, Cl. 315-169.400.

Shinoda, Tsutae: *See*—
Otsuka, Akira; Shinoda, Tsutae; Horio, Kenji; and Tanioka, Tsuyoshi, 4,684,849, Cl. 315-169.400.

Shinoda, Yoshio: *See*—
Takeo, Yuji; Yoshimi, Tomohisa; Shinoda, Yoshio; and Nomura, Ken, 4,674,230, Cl. 49-32.000.
Yoshino, Yasuhisa; Kago, Yoshiyuki; Sakakibara, Hiroyuki; and Shinoda, Yoshio, 4,706,195, Cl. 364-426.000.

Shinogaya, Toshikazu: *See*—
Kanayama, Tatsuya; Yamanaka, Yutaka; Toyoda, Hitoshi; Tanaka, Akihiko; and Shinogaya, Toshikazu, 4,647,495, Cl. 428-246.000.

Shinohara, Akira: *See*—
Morinaga, Michio; Ikeda, Akira; and Shinohara, Akira, 4,673,749, Cl. 548-490.000.

Shinohara, Daizo: *See*—
Inoue, Yasuo; and Shinohara, Daizo, 4,705,381, Cl. 354-411.000.

Shinohara, Emiko; Sugiyama, Katsumi; Ozaki, Masanao; and Matsuda, Keizo, to Ajinomoto Company Incorporated. Process for producing α-L-aspartyl-L-phenylalanine methyl ester or its hydrohalide. 4,634,790, 1-6-87, Cl. 560-40.000.

Shinohara, Haruo: *See*—
Koishi, Masaru; Shinohara, Haruo; and Takayanagi, Shinji, 4,679,860, Cl. 301-9.0DN.

Shinohara, Hatsue: *See*—
Aritomi, Toshiaki; Shinohara, Hatsue; and Sakuraba, Shinichi, 4,653,078, Cl. 377-10.000.

Shinohara, Hirofumi; and Ichinose, Katsuki, to Mitsubishi Denki Kabushiki Kaisha. Constant voltage generating circuit. 4,645,998, 2-24-87, Cl. 323-313.000.

Shinohara, Hirofumi: *See*—
Ichinose, Katsuki; and Shinohara, Hirofumi, 4,709,354, Cl. 365-226.000.

Shinohara, Hiroichi, to Ricoh Company, Ltd. Gaussian lens. 4,671,627, 6-9-87, Cl. 350-471.000.

Shinohara, Hiroichi; Ushifusa, Nobuyuki; Nagayama, Kousei; and Ogihara, Satoru, to Hitachi, Ltd. Multilayer ceramic circuit board. 4,672,152, 6-9-87, Cl. 174-68.500.

Shinohara, Hiroo; and Imai, Toshiaki, to Kabushiki Kaisha Toshiba. Automatic chemical analyzer. 4,678,755, 7-7-87, Cl. 436-43.000.

Shinohara, Isao; and Yoshimoto, Itsuro, to Casio Computer Co., Ltd. Training type electronic musical instrument with keyboard indicators. 4,694,723, 9-22-87, Cl. 84-1.030.

Shinohara, Katsufumi: *See*—
Saeki, Osamu; Mori, Kenji; Onoda, Mameru; Watanabe, R...
Shinohara, Katsufumi; Ashie, Takehiko; and Imam...
Nobuyuki, 4,678,508, Cl. 75-26.000.

Shinohara, Koichi: *See*—
Suzuki, Takashi; Hibino, Kunio; Murai, Mikio; Kawase, Shig...
Shinohara, Koichi; and Nouchi, Norimoto, 4,645,703, ... 428-141.000.
Yoshida, Hideki; Shinohara, Koichi; and Suzuki, Tak...
4,673,617, Cl. 428-323.000.

Shinohara Machinery Co., Ltd.: *See*—
Iwamoto, Masayuki; Araki, Setsuo; and Sone, Yasuo, 4,700,626, Cl. 101-230.000.
Shinohara, Nobutaka; Hirakawa, Shuji; Minami, Akihiko; and Tanaka, Koichi, to Tokyo Shibaura Denki Kabushiki Kaisha. Digital superimposed edge generation apparatus. 4,646,154, 2-24-87, Cl. 358-183.000.
Shinohara, Satoru: *See*—
Kobayashi, Naotake; Abe, Tetsuya; Shinohara, Satoru; and Fujiwara, Yoshio, 4,651,645, Cl. 101-470.000.
Shinohara, Satoshi: *See*—
Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.
Shinohara, Shuichi, to Terumo Kabushiki Kaisha. Medical device and method for manufacturing the same. 4,664,659, 5-12-87, Cl. 604-283.000.
Shinohara, Shunya: *See*—
Mukai, Yasuo; Takasawa, Yosuke; Shimizu, Masanobu; and Shinohara, Shunya, 4,689,269, Cl. 428-413.000.
Shinohara, Takeru: *See*—
Amano, Satoru; Horiuchi, Shigenori; and Shinohara, Takeru, 4,696,551, Cl. 350-358.000.
Shinohara, Tatsuo: *See*—
Fujioka, Yoshiki; and Shinohara, Tatsuo, 4,651,266, Cl. 363-39.000.
Shinohara, Terumi: *See*—
Narui, Hiroshi; and Shinohara, Terumi, 4,687,680, Cl. 427-38.000.
Shinohara, Toshihide, to Seiko Epson Kabushiki Kaisha. Progressive multifocal ophthalmic lenses. 4,640,593, 2-3-87, Cl. 351-169.000.
Shinohara, Toshio, to Toyota Jidosha Kabushiki Kaisha. Fail safe circuit for multi-signal transmission system. 4,635,257, 1-6-87, Cl. 371-12.000.
Shinohara, Toshio; Ogawa, Masahiko; and Yokoo, Akio, to Shin-Etsu Chemical Co., Ltd. 4-chloromethylphenyl methyl dichlorosilane. 4,659,852, 4-21-87, Cl. 556-476.000.
Shinohara, Toshio; and Inoue, Yoshifumi, to Shin-Etsu Chemical Co., Ltd. Method for the preparation of N-methyl-N-trimethylsilyl trifluoroacetamide. 4,663,471, 5-5-87, Cl. 556-411.000.
Shinohara, Yoshihiro; Ozumi, Kiyoshi; Itoh, Yasuhiko; and Hori, Makoto, to Hitachi Cable, Ltd. Heat-transfer tubes with grooved inner surface. 4,658,892, 4-21-87, Cl. 165-133.000.
Shinohara, Yoshinao: *See*—
Matsumoto, Yoshio; Fuji, Toshio; Shinohara, Yoshinao; and Fukuda, Kiyoshi, 4,705,828, Cl. 525-232.000.
Shinohara, Yoshinori: *See*—
Ogata, Yasuyuki; and Shinohara, Yoshinori, 4,636,248, Cl. 75-0.5AA.
Shinohara, Yoshitsugu; and Ichihashi, Masazumi, to Omron Tateisi Electronics Co. Card information selecting system. 4,634,848, 1-6-87, Cl. 235-449.000.
Shinohara, Yoshitsugu: *See*—
Ohmae, Kenichi; Tateisi, Kazuma; Shinohara, Yoshitsugu; and Ueno, Nobuyuki, 4,673,802, Cl. 235-379.000.
Tateisi, Kazuma; and Shinohara, Yosnitsugu, 4,678,895, Cl. 235-379.000.
Shinohara, Yukimasa, to Canon Kabushiki Kaisha. Image forming apparatus. 4,675,741, 6-23-87, Cl. 358-256.000.
Shinohara, Yukimasa: *See*—
Ito, Michio; Shinohara, Yukimasa; and Imai, Nobuhiro, 4,687,283, Cl. 350-6.800.
Shinokawa, Masahide; Kitoh, Yukio; Furuichi, Noriyasu; Miyazawa, Takeshi; and Ogano, Takeo, to Honda Giken Kogyo Kabushiki Kaisha. Control device for clutch and transmission for motor vehicles. 4,676,350, 6-30-87, Cl. 192-3.620.
Shinomiya, Takashi: *See*—
Takata, Koji; Nishiyama, Yukinori; and Shinomiya, Takashi, 4,667,476, Cl. 60-545.000.
Shinomura, Ryuichi: *See*—
Takasugi, Wasao; Shinomura, Ryuichi; and Yokozawa, Norio, 4,680,498, Cl. 310-319.000.
Shinonaga, Hideo: *See*—
Mitsuno, Tatsuyuki; Koyama, Teruhisa; Shinonaga, Hideo; and Daimon, Akio, 4,686,257, Cl. 524-449.000.
Shinonaga, Hideyuki: *See*—
Ito, Yasuhiko; and Shinonaga, Hideyuki, 4,706,239, Cl. 370-57.000.
Shinonaga, Hirohiko: *See*—
Aoyama, Tsutomu; Nakamura, Taizo; Terao, Naoyosi; and Shinonaga, Hirohiko, 4,639,098, Cl. 350-514.000.
Shinoo, Yasutaka: *See*—
Maeda, Sadayuki; Shinoo, Yasutaka; Takenaka, Shinji; Arashida, Susumu; and Shimizu, Iwao, 4,670,607, Cl. 568-427.000.
Shinooka, Kiyohide: *See*—
Uemura, Toshinobu; Okhuma, Toshiaki; Shinooka, Kiyohide; Ishikuro, Hiroshi; and Ueda, Yoshio, 4,690,822, Cl. 424-455.000.
Uemura, Toshinobu; Shinooka, Kiyohide; and Kajiho, Tokuaki, 4,695,467, Cl. 424-502.000.
Shinopulos, George: *See*—
Bower, Terry F.; Randlett, M. Ronald; and Shinopulos, George, 4,683,938, Cl. 164-413.000.
Shinoto, Yoshinori, to Linguatron Limited. Casing for electronic apparatus. 4,693,525, 9-15-87, Cl. 312-208.000.
Shinoura, Osamu: *See*—
Isobe, Yukihiro; Tanaka, Kazushi; Nishimatsu, Masaharu; Shinoura, Osamu; and Kubota, Yuichi, 4,670,340, Cl. 428-339.000.
Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobumori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Isobe, Yukihiro; Tanaka, Kazushi; and Shinoura, Osamu, 4,708,909, Cl. 428-425.900.
Shinoyama, Masayuki: *See*—
Iriuchijima, Shinobu; Kobayashi, Hirohiko; Aoki, Kyoji; Oda, Takeshi; Shinoyama, Masayuki; and Nosaka, Yoshifumi, 4,686,296, Cl. 548-545.000.
Shinozaki, Fumiaki: *See*—
Iwasaki, Masayuki; Maeda, Minoru; and Shinozaki, Fumiaki, 4,661,434, Cl. 430-281.000.
Ohara, Shinichiro; Takahashi, Yohnosuke; Naruo, Kyoichi; and Shinozaki, Fumiaki, 4,656,118, Cl. 430-272.000.
Usami, Toshimasa; Tanaka, Toshiharu; and Shinozaki, Fumiaki, 4,650,740, Cl. 430-176.000.
Shinozaki, Fumihiko; and Yokoyama, Yutaka, to Nippon Chemi-Con Corp. Electrolyte for electrolytic capacitor. 4,664,830, 5-12-87, Cl. 252-62.200.
Shinozaki, Fumihiko; and Yokoyama, Yutaka, to Nippon Chemi-Con Corporation. Electrolyte for electrolytic capacitor. 4,670,175, 6-2-87, Cl. 252-62.200.
Shinozaki, Fumihiko; and Yokoyama, Yutaka, to Nippon Chemi-Con Corporation. Electrolyte for electrolytic capacitor. 4,708,811, 11-24-87, Cl. 252-62.200.
Shinozaki, Fumihiko; and Yokoyama, Yutaka, to Nippon Chemi-Con Corp. Electrolyte for electrolytic capacitor. 4,710,310, 12-1-87, Cl. 252-62.200.
Shinozaki, Haruhiko: *See*—
Masaki, Mituo; Shinozaki, Haruhiko; Satoh, Masaru; Moritoh, Naoya; Hashimoto, Koichi; and Kamishiro, Toshiro, 4,644,063, Cl. 546-209.000.
Shinozaki, Kaoru: *See*—
Iijima, Toshifumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,665,015, Cl. 430-558.000.
Kaneko, Yutaka; Kadokura, Kenji; Kimura, Toshihiko; Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; and Shinozaki, Kaoru, 4,675,280, Cl. 430-558.000.
Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.
Shinozaki, Kazuo: *See*—
Iwase, Nobuo; Anzai, Kazuo; Shinozaki, Kazuo; Tsuge, Akihiko; Saitoh, Kazutaka; Iyogi, Kiyoshi; Sato, Noboru; and Kasori, Mitsuo, 4,659,611, Cl. 428-209.000.
Kasori, Mituo; Shinozaki, Kazuo; Anzai, Kazuo; and Takano, Takeshi, 4,698,320, Cl. 501-96.000.
Shinozaki, Kazushi: *See*—
Sakurai, Kaoru; and Shinozaki, Kazushi, 4,667,443, Cl. 51-99.000.
Shinozaki, Mamoru: *See*—
Ohkochi, Katsutoshi; Shinozaki, Mamoru; Ohshita, Toshiyuki; Kitano, Masayasu; and Kamata, Seizo, 4,706,753, Cl. 166-256.000.
Shinozaki, Masatoshi; Matsumoto, Yoshihiro; Aoyagi, Yoshiki; and Kojima, Kazuhisa, to Kawasaki Steel Corporation. Vibration damping composite laminate. 4,678,707, 7-7-87, Cl. 428-323.000.
Shinozaki, Masatsugu: *See*—
Ohishi, Shiro; and Shinozaki, Masatsugu, 4,644,563, Cl. 375-17.000.
Shinozaki, Takashi; and Ishikawa, Satoshi, to Honda Giken Kogyo Kabushiki Kaisha. Air cleaner system for motorcycles. 4,648,474, 3-10-87, Cl. 180-219.000.
Shinozaki, Takashi; and Ishikawa, Satoshi, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle housing exhaust system. 4,673,052, 6-16-87, Cl. 180-219.000.
Shinozaki, Takashi; and Ishikawa, Satoshi, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle lubrication system. 4,690,236, 9-1-87, Cl. 180-219.000.
Shinozaki, Takashi; and Kawaguchi, Takeshi, to Honda Giken Kogyo Kabushiki Kaisha. Four-wheel drive vehicle. 4,699,234, 10-13-87, Cl. 180-233.000.
Shinozaki, Takashi; and Kawaguchi, Takeshi, to Honda Giken Kogyo Kabushiki Kaisha. Four-wheel drive vehicle. 4,714,126, 12-22-87, Cl. 180-233.000.
Shinozaki, Takashi: *See*—
Honma, Nobuyuki; and Shinozaki, Takashi, 4,675,514, Cl. 235-379.000.
Matsuda, Minoru; and Shinozaki, Takashi, 4,666,015, Cl. 180-233.000.
Shinozaki, Toshiya: *See*—
Nakamura, Hiro; Ohkawa, Shuji; Ohtsuka, Yasuo; Tachikawa, Hajime; and Shinozaki, Toshiya, 4,712,970, Cl. 414-730.000.
Shinozuka, Hideo: *See*—
Sugita, Terumitsu; Shinozuka, Hideo; and Murayama, Koji, 4,708,598, Cl. 417-295.000.
Shinozuka, Kaoru: *See*—
Kushibe, Norishige; and Shinozuka, Kaoru, 4,660,753, Cl. 228-48.000.
Shinozuka, Minoru, to Olympus Optical Co., Ltd. Basket forceps assembly. 4,633,871, 1-6-87, Cl. 128-321.000.
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Miyake, Tomohisa; Kataigi, Tsutomu; and Shinozuka, Toshinobu, 4,669,900, Cl. 400-322.000.
Shinsei Kogyo Co., Ltd.: *See*—
Nagano, Toshiaki, 4,666,420, Cl. 446-443.000.
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Nakamura, Akira; Oinoue, Hiroshi; Ishida, Tomoyuki; and Shintani, Kenji, 4,709,139, Cl. 250-201.000.

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Okuzono, Shuichi; Tanaka, Tetsuo; Oda, Yasuhiro; Shintani, Takashi; and Emura, Noriaki, 4,713,083, Cl. 8-557.000.

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Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji, 4,670,188, Cl. 252-513.000.
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Shinwa Seisakusho Co., Ltd.: *See—*
Takahashi, Yasuo, 4,697,851, Cl. 300-1.000.

Shinya, Kenzo: *See—*
Hayashi, Keijiro; Shinya, Kenzo; Saeki, Yasuo; and Asai, Shigeru, 4,697,820, Cl. 280-609.000.
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Itoh, Kunio; Shiobara, Toshio; Futatsumori, Koji; Tomiyoshi, Kazutoshi; and Shimizu, Hisashi, 4,701,482, Cl. 523-435.000.

Shioda, Mitsugu; and Inaba, Akio, to Nifco Inc. Tube joint. 4,688,829, 8-25-87, Cl. 285-61.000.

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Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Watanabe, Hideaki; Igarashi, Toshiji; Shiojiri, Hiroyuki; Tanabe, Yoshio; and Hara, Kumiko, 4,639,450, Cl. 514-238.000.

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Takeda, Keigo, 4,653,931, Cl. 368-205.000.

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Kotaka, Yoshiro; Naito, Hideshi; and Shiokama, Yoshiharu, 4,636,041, Cl. 350-429.000.
Naito, Hideshi; Kodaka, Yoshiro; and Shiokama, Yoshiharu, 4,681,406, Cl. 350-429.000.

Shiokawa, Hideyo: *See—*
Sawaide, Minoru; Ishikawa, Noboru; and Shiokawa, Hideyo, 4,687,517, Cl. 106-96.000.

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Kurahashi, Yoshio; Shiokawa, Kozo; Kagabu, Shinzo; Sakawa, Shinji; and Moriya, Koichi, 4,710,518, Cl. 514-624.000.
Saito, Junichi; Yasui, Kazuomi; Shiokawa, Kozo; and Kamochi, Atsumi, 4,659,370, Cl. 71-98.000.

Shiokawa, Yoshiro, to Anelva Corporation. Auger electron spectrometer capable of attaining a high resolution. 4,639,597, 1-27-87, Cl. 250-305.000.

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Ueda, Ikuo; Shiokawa, Youichi; and Manabe, Takashi, 4,673,676, Cl. 514-267.000.
Ueda, Ikuo; Shiokawa, Youichi; Manabe, Takashi; and Katsura, Yousuke, 4,675,324, Cl. 514-293.000.
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Hashizume, Masatora; Kudoh, Eiichi; Fujiwara, Setuzo; and Shiomi, Hitomi, 4,707,893, Cl. 24-446.000.

Shiomi, Kengo; Asai, Toshimasa; and Kato, Toshiyuka, to Tokyo Juki Industrial Co., Ltd. Presser foot lifting mechanism. 4,674,424, 6-23-87, Cl. 112-237.000.

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Takemura, Koichi; and Shiomi, Tadashi, 4,713,716, Cl. 362-7.000.

Shiomi, Tomikazu: *See—*
Ueda, Takahisa; and Shiomi, Tomikazu, 4,705,722, Cl. 428-365.000.

Shiomi, Tomoo: *See—*
Imai, Kiyokazu; Shiomi, Tomoo; and Tezuka, Yasuyuki, 4,694,077, Cl. 536-92.000.

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Shiomi, Yasuhiko; and Suzuki, Ryoichi, to Canon Kabushiki Kaisha. Distance measuring device with signal processing circuit for position sensitive detector. 4,693,597, 9-15-87, Cl. 356-1.000.

Shiomi, Yasuhumi: *See*—
Tanaka, Toshihide; Saka, Hiroshi; Yoshimura, Yoshikazu; and Shiomi, Yasuhumi, 4,679,249, Cl. 455-328.000.

Shiono, Hidemi: *See*—
Matsui, Shigeru; Sekihara, Kensuke; Kohno, Hideki; Onodera, Takashi; and Shiono, Hidemi, 4,689,568, Cl. 324-309.000.
Sekihara, Kensuke; Matsui, Shigeru; Kohno, Hideki; Yamamoto, Etsuji; and Shiono, Hidemi, 4,716,369, Cl. 324-309.000.
Yamamoto, Etsuji; Kohno, Hideki; Kuroda, Masao; Matsui, Shigeru; and Shiono, Hidemi, 4,683,433, Cl. 324-309.000.

Shiono, Hiroshi: *See*—
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Shiono, Hiroyuki: *See*—
Ura, Shigeru; Iwata, Mikio; Tanaka, Haruo; and Shiono, Hiroyuki, 4,657,821, Cl. 428-510.000.

Shiono, Kazushi: *See*—
Shimamoto, Hideki; Miyazaki, Yoshio; Aoshima, Yoichi; Tsunetsugu, Tsuyoshi; Nagara, Hisao; Kuwae, Yoshiteru; and Shiono, Kazushi, 4,652,968, Cl. 361-319.000.

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Kanehira, Koichi; Shiono, Manzo; Fujita, Yoshiji; Nishida, Takashi; and Yamahara, Johji, 4,681,890, Cl. 514-333.000.
Tamai, Yoshin; Yamamoto, Fumito; Shiono, Manzo; Kanehira, Koichi; Ozasa, Hiroshi; and Nomoto, Kaoru, 4,656,195, Cl. 514-772.000.

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Shionogi & Co., Ltd.: *See*—
Adachi, Ikuo; Hiramatsu, Yoshiharu; Ueda, Motohiko; and Kawakami, Masaru, 4,703,051, Cl. 514-291.000.
Aiba, Shuichi; and Imanaka, Tadayuki, 4,695,546, Cl. 435-172.300.
Fujimoto, Manabu, 4,702,704, Cl. 434-295.000.
Hamashima, Yoshio, 4,634,697, Cl. 514-202.000.
Hamashima, Yoshio; and Takami, Fumitaka, 4,647,658, Cl. 540-215.000.
Harada, Hiroshi; Matsushita, Yoshihiro; Nakamura, Masuhisa; and Yonetani, Yukio, 4,659,709, Cl. 514-229.000.
Hayase, Yoshio; Morita, Koichi; Ide, Kinya; and Takahashi, Toshio, 4,648,898, Cl. 71-93.000.
Hayase, Yoshio; Ohtsuka, Toshikazu; Ishiguro, Takeo; and Takahashi, Toshio, 4,663,314, Cl. 514-63.000.
Hayase, Yoshio; Ichinari, Mitsuhiro; Taguchi, Junji; Ishiguro, Takeo; and Takahasni, Toshio, 4,681,874, Cl. 514-90.000.
Hayase, Yoshio; Ohtsuka, Toshikazu; Ide, Kinya; and Takahashi, Toshio, 4,695,312, Cl. 71-92.000.
Jizomoto, Hiroaki, 4,673,567, Cl. 424-38.000.
Kiso, Yoshiaki; and Nakao, Kazuwa, 4,673,732, Cl. 530-326.000.
Kondo, Eiji; Kawamura, Yoshimi; Konishi, Takao; Matsumoto, Koichi; and Shoji, Junichi, 4,647,693, Cl. 562-439.000.
Kono, Masao; Komeno, Taichitro; Ishihara, Shoichi; Yamauchi, Akira; and Okabayashi, Tadashi, 4,686,179, Cl. 435-7.000.
Matsumura, Hiromu; and Yano, Toshisada, 4,652,652, Cl. 548-194.000.
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Onoue, Hiroshi; and Takahashi, Hiromi, 4,713,461, Cl. 548-194.000.
Sakamoto, Teruo; Kawai, Sadao; Noda, Kinzaburo; Takeda, Toyohiko; and Kato, Hiroshi, 4,713,247, Cl. 424-461.000.
Sato, Akihiko; Noto, Akira; Morita, Fumiaki; and Nakajima, Kunihiro, 4,690,819, Cl. 424-88.000.
Sonoyama, Takayasu; Yagi, Shigeo; and Kageyama, Bunji, 4,696,897, Cl. 435-42.000.
Takada, Susumu; Sasatani, Takashi; Shindo, Hirohisa; Matsushita, Akira; and Eigyo, Masami, 4,690,930, Cl. 514-293.000.
Tanaka, Kentaro; Kondo, Eiji; Matsumoto, Kouichi; and Tsuji, Naoki, 4,647,408, Cl. 540-350.000.
Totani, Tetsushi; Shiratori, Osamu; Aono, Katsutoshi; and Uchida, Naomi, 4,658,048, Cl. 556-137.000.
Wakisaka, Yoshiharu; Uo, Junko; Matsumoto, Kouichi; Ohodaira, Osamu; and Tanaka, Kentaro, 4,713,241, Cl. 424-93.000.

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Haramaki, Takashi; Shiota, Katsuhiko; Kokura, Satoshi; Funamoto, Takao; and Tomita, Akira, 4,645,119, Cl. 228-183.000.

Shiotari, Yoshihisa; and Nagao, Kenichi, to Kabushiki Kaisha Toshiba. Semiconductor integrated circuit device. 4,688,070, 8-18-87, Cl. 357-40.000.

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Sugino, Yoshihide; Shiote, Yoshinori; and Yamaki, Kazuyoshi, 4,661,037, Cl. 414-729.000.

Shiotsu, Tatsumi, to Meishintoryo Co., Ltd. Surgical cement containing α-tricalcium phosphate, poly(carboxylic acid) and water. 4,677,140, 6-30-87, Cl. 523-116.000.

Shiou, Lin Jun, to Saga International, Inc. Knock down file cabinet. 4,671,580, 6-9-87, Cl. 312-257.0SM.

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Ohnari, Mikihiko; Funabashi, Motohisa; Shioya, Makoto; Sekozawa, Teruji; and Shida, Masami, 4,697,566, Cl. 123-479.000.
Sekozawa, Teruji; Funabashi, Motohisa; Shioya, Makoto; Onari, Michihiko; and Tokuda, Hiroatsu, 4,667,640, Cl. 123-492.000.

Shioya, Masaharu: *See*—
Honjo, Yoshiaki; and Shioya, Masaharu, 4,683,973, Cl. 180-252.000.

Shioyama, Giichi; Sugihara, Kunihiko; Etoh, Yukihiro; Tanaka, Toshiaki; and Kawamura, Yoshihisa, to Nissan Motor Co., Ltd. Diesel engine having swirl chamber and shaped flame dispersing recess in piston crown. 4,662,330, 5-5-87, Cl. 123-269.000.

Shioyama, Giichi: *See*—
Etoh, Yukihiro; Sugihara, Kunihiko; Shioyama, Giichi; Tanaka, Toshiaki; and Kawamura, Yoshihisa, 4,676,209, Cl. 123-293.000.

Shioyama, Tadao: *See*—
Asada, Takafumi; Yoshida, Cyuryo; Shioyama, Tadao; and Kurose, Kazuyoshi, 4,706,143, Cl. 360-107.000.
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Shioyama, Tod K.: *See*—
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Mumallah, Naim A.; and Shioyama, Tod K., 4,644,073, Cl. 556-2.000.

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Koyama, Toshihiro; Watanabe, Takahiro; Shiozaki, Hiroyuki; Kawanami, Takao; Takahashi, Hideo; Shiraishi, Toshiyuki; and Okudaira, Ken, 4,665,729, Cl. 72-8.000.

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Kubo, Kanji; and Shiozaki, Kenichi, 4,670,836, Cl. 364-200.000.

Shiozaki, Makoto; and Akahori, Ichiro, to Nippondenso Co., Ltd. Electronically controlled fuel injection based on minimum time control for diesel engines. 4,708,111, 11-24-87, Cl. 123-357.000.

Shiozaki, Masakazu; and Nishimura, Hidetaro, to Tokyo Shibaura Denki Kabushiki Kaisha. Fuse element for integrated circuit memory device. 4,682,204, 7-21-87, Cl. 357-51.000.

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Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.

Shiozaki, Tomoharu: *See*—
Okamoto, Shigeo; and Shiozaki, Tomoharu, 4,680,597, Cl. 503-214.000.
Tanaka, Masato; Irii, Shinsuke; and Shiozaki, Tomoharu, 4,688,060, Cl. 503-214.000.

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Tomita, Takao; Matsuura, Masaaki; Hirano, Makoto; Handa, Masao; and Shiozaki, Tomoo, 4,671,228, Cl. 123-193.00P.

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Shiozawa, Etuo; Harada, Shigeo; Ohtsuka, Shuichi; and Ohnishi, Masahiro, to Fuji Photo Film Co., Ltd. Rotatable head type electrophotographic apparatus, corona charging rotatable head and moveable electrophotographic liquid development processing unit therefor. 4,678,312, 7-7-87, Cl. 355-3.00R.

Shiozawa, Hisao; and Matsuda, Kihachiro, to Nippon Silica Industrial Co., Ltd. Stable crystals of sodium bromite trihydrate. 4,650,658, 3-17-87, Cl. 423-462.000.

Shiozawa, Iwamitsu: *See*—
Haruna, Kazuo; and Shiozawa, Iwamitsu, 4,713,100, Cl. 55-387.000.

Shiozawa, Kazuo: *See*—
Murai, Yoshio; Shiozawa, Kazuo; and Shimada, Masaki, 4,672,456, Cl. 358-227.000.
Onodera, Kaoru; Hohnishi, Sateru; Kobayashi, Kazuyuki; and Shiozawa, Kazuo, 4,715,690, Cl. 350-357.000.

Shiozumi, Motoji: *See*—
Asano, Yuichiro; Kono, Yoshihisa; Yanagimoto, Takayuki; Shiozumi, Motoji; Takahashi, Kunio; Torao, Akira; Moriya, Susumu; and Momose, Atsushi, 4,708,882, Cl. 427-1.000.

Shipkowski, James P.; and Pearce, Phillip W., to Eastman Kodak Company. Apparatus and method for detecting a perforation on a web. 4,683,380, 7-28-87, Cl. 250-548.000.

Shipley Company Inc.: *See*—
Cardin, William J.; Gulla, Michael; and Newton, Charles L., 4,674,440, Cl. 118-688.000.
Dutkewych, Oleh B., 4,695,505, Cl. 428-209.000.
Gulla, Michael; Dutkewych, Oleh B.; and Bladon, John J., 4,634,468, Cl. 106-1.110.
Gulla, Michael; Dutkewych, Oleh B.; and Bladon, John J., 4,652,311, Cl. 106-1.110.
Sandford, Harold F., 4,636,532, Cl. 522-3.000.

Shipley, Fred J.: *See*—
Bender, Herman G.; Shipley, Fred J.; and Vance, Gary C., 4,703,372, Cl. 360-96.100.

Shipman, Frank P.: *See*—
Lang, Keven W.; Eberhardt, George M.; Entenmann, William J.; and Shipman, Frank P., 4,645,674, Cl. 426-94.000.

Shipman, Harvey L.; and Rieger, Dennis D., to Rieger, Betty J., a part interest. Pedestal aquarium. 4,703,720, 11-3-87, Cl. 119-5.000.

Shipman, John D., Jr.; and Wexler, Bernard L., to United States of America, Navy. Minimum inductance laser head for pulsed transverse discharges without wall tracking. 4,665,526, 5-12-87, Cl. 372-83.000.

Shipp, Kenneth O., Jr.: *See*—
Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., 4,648,067, Cl. 364-900.000.
Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., 4,648,071, Cl. 364-900.000.

Shipp, Peter W., Jr.; and Vogt, Clifford M., to Kimberly-Clark Corporation. Melt-blown material with depth fiber size gradient. 4,714,647, 12-22-87, Cl. 428-212.000.

Shipp, Peter W., Jr.: *See*—
Vogt, Clifford M.; Shipp, Peter W., Jr.; and Pendley, Cynthia C., 4,689,058, Cl. 55-279.000.

Shippee, James H. Fanless air aspiration snowmaking apparatus. 4,634,050, 1-6-87, Cl. 239-14.200.

Shippey, Geoffrey, to Shandon Southern Products Limited. Automatic focussing device. 4,636,051, 1-13-87, Cl. 354-402.000.

Shipping Corporation of New Zealand, The: *See*—
Harris, Samuel; and Lovegrove, John R., 4,642,996, Cl. 62-78.000.

Shira, Jerry P.: *See*—
Miutel, Alexander; and Shira, Jerry P., 4,708,977, Cl. 523-402.000.

Shirafuji, Tamio; Sakai, Kiyomi; and Kawata, Itaru, to Sumitomo Chemical Company, Limited. Method for producing alicyclic alcohols. 4,670,612, 6-2-87, Cl. 568-899.000.

Shirafuji, Tamio; and Kawata, Itaru, to Sumitomo Chemical Company, Limited. Method for producing cycloalkanols. 4,691,064, 9-1-87, Cl. 568-835.000.

Shirafuji, Tamio; Sakai, Kiyomi; and Hirose, Ken-ichi, to Sumitomo Chemical Company, Limited. Method for producing cycloalkanols. 4,716,253, 12-29-87, Cl. 568-895.000.

Shiraga, Jun: *See*—
Suzuki, Ryozo; Shiraga, Jun; Iwai, Shingo; and Okashiro, Tetuo, 4,682,936, Cl. 417-366.000.

Shiragami, Kazuharu: *See*—
Moriya, Mitsuro; Shiragami, Kazuharu; and Yamaguchi, Hiroyuki, 4,692,915, Cl. 369-53.000.

Shirahama, Ichiro: *See*—
Mochida, Yoshihiro; and Shirahama, Ichiro, 4,666,305, Cl. 356-381.000.
Mochida, Yoshihiro; Adachi, Nobuo; and Shirahama, Ichiro, 4,673,294, Cl. 356-381.000.

Shirahata, Akihiko, to Toray Silicone Co., Ltd. Method for producing organosilicon polymers and the polymers prepared thereby. 4,707,531, 11-17-87, Cl. 528-12.000.

Shirahata, Akihiko: *See*—
Morita, Yoshitsugu; and Shirahata, Akihiko, 4,663,397, Cl. 525-398.000.
Suzuki, Toshio; Shirahata, Akihiko; and Muramoto, Naohiro, 4,677,161, Cl. 524-862.000.

Shirahata, Kunikatsu; Kono, Motomichi; Saito, Yutaka; Kasai, Masaji; Morimoto, Makoto; and Ashizawa, Tadashi, to Kyowa Hakko Kogyo Kabushiki Kaisha. New mitomycin derivatives, preparation thereof and pharmaceutical compositions containing them. 4,691,024, 9-1-87, Cl. 548-422.000.

Shirahata, Kunikatsu: *See*—
Kase, Hiroshi; Matsuda, Yuzuru; Kawamoto, Isao; Asano, Kozo; Shirahata, Kunikatsu; Yasuzawa, Tohru; and Yamada, Koji, 4,692,310, Cl. 424-122.000.
Kawauchi, Hiroshi; Yamaguchi, Kazuo; and Shirahata, Kunikatsu, 4,645,755, Cl. 514-12.000.
Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji; Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.

Shirahata, Ryuji; and Arai, Yoshihiro, to Fuji Photo Film Co., Ltd. Process for preparing magnetic recording medium. 4,652,460, 3-24-87, Cl. 427-39.000.

Shirahata, Ryuji; Arai, Yoshihiro; and Yasunaga, Tadashi, to Fuji Photo Film Company, Limited. Magnetic recording medium having iron nitride recording layer. 4,673,610, 6-16-87, Cl. 428-213.000.

Shirahata, Ryuji; and Tamai, Yasuo, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,690,857, 9-1-87, Cl. 428-216.000.

Shirahata, Ryuji; Kitamoto, Tatsuji; and Arai, Yoshihiro, to Fuji Photo Film Co., Ltd. Process for recording information by irradiation of, an deposition on, a substrate. 4,700,198, 10-13-87, Cl. 346-1.100.

Shirahata, Ryuji: *See*—
Arai, Yoshihiro; and Shirahata, Ryuji, 4,643,915, Cl. 427-130.000.
Ishikuro, Tadashi; Honda, Kunihiko; Ohta, Masataka; and Shirahata, Ryuji, 4,661,421, Cl. 428-694.000.
Yanai, Akio; and Shirahata, Ryuji, 4,661,418, Cl. 428-610.000.
Yasunaga, Tadashi; Yanai, Akio; and Shirahata, Ryuji, 4,702,93[illegible] Cl. 427-132.000.
Yasunaga, Tadashi; and Shirahata, Ryuji, 4,713,262, Cl. 427-130.000.

Shirai, Akira: *See*—
Adachi, Yoshiharu; Nishimura, Takumi; Saito, Tadao; Shibata, Hirochika; Nakanishi, Nobuyasu; Shirai, Akira; and Noguchi, Noboru, 4,636,010, Cl. 303-115.000.
Kitaya, Katsuhiko; Iida, Naohiro; Miyake, Atsushi; Kobayashi, Mitsuo; and Shirai, Akira, 4,685,180, Cl. 29-33.00R.
Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nomura, Yoshihisa; and Ohashi, Kaoru, 4,637,487, Cl. 180-197.000.
Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Ohashi, Kaoru; and Nomura, Yoshihisa, 4,681,374, Cl. 303-106.000.
Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; Nomura, Yoshihisa; Noguchi, Noboru; and Shibata, Hirochika, 4,668,024, Cl. 303-119.000.
Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; and Noguchi, Noboru, 4,715,664, Cl. 303-111.000.
Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, 4,648,663, Cl. 303-106.000.
Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, 4,681,371, Cl. 303-106.000.
Ohashi, Azusa; Shirai, Akira; Sakaki, Hirokazu; Tanabe, Zenichi; Tsuchida, Shin; and Hayashi, Yoshikatsu, 4,634,656, Cl. 430-278.000.
Ohashi, Kaoru; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nakamura, Kazumasa; and Nomura, Yoshihisa, 4,685,547, Cl. 192-3.00R.

Shirai, Eiji: *See*—
Okabe, Yoshio; and Shirai, Eiji, 4,662,325, Cl. 123-90.580.

Shirai, Hideaki; Chiba, Kimio; Okawa, Koji; Ishibashi, Hiroshi; Ishi, Akihiro; Itoh, Hirotaka; Kuzushita, Hirokazu; Yoshioka, Michihiko; and Hirose, Michio, to Dainichi-Nippon Cables, Ltd. Metal cored board and method for manufacturing same. 4,695,515, 9-22-87, Cl. 428-458.000.

Shirai, Hirofusa; Hanabusa, Kenji; Kitamura, Mitsutoshi; Hojo, Nobumasa; and Hirabaru, Okikazu, to TDK Corporation. Electroconductive compositions. 4,663,084, 5-5-87, Cl. 252-600.000.

Shirai, Hiroshi: *See*—
Tsuji, Fumio; Matsuoka, Yoji; Endo, Akira; Takezaki, Jiro; and Shirai, Hiroshi, 4,635,202, Cl. 364-449.000.
Tsuji, Fumio; Matsuoka, Yoji; Shibata, Takanori; Endo, Akira; and Shirai, Hiroshi, 4,679,147, Cl. 364-449.000.

Shirai, Hisao; Sibata, Takuo; and Izuo, Takashi, to Toyota Jidosha Kabushiki Kaisha. Solenoid valve for hydraulic control. 4,647,008, 3-3-87, Cl. 251-129.070.

Shirai, Ichiro, to Nintendo Co., Ltd. Multi-directional switch. 4,687,200, 8-18-87, Cl. 273-148.00B.

Shirai, Kazunari; Kamioka, Hajime; and Koike, Shigeyoshi, to Fujitsu Limited. Beam annealed silicide film on semiconductor substrate. 4,672,740, 6-16-87, Cl. 29-590.000.

Shirai, Kiichirou: *See*—
Kanda, Atsushi; Kitani, Kazuo; and Shirai, Kiichirou, 4,705,102, Cl. 165-104.330.

Shirai, Koji; and Kawamura, Ken, to Kabushiki Kaisha Toshiba. Semiconductor memory device. 4,707,720, 11-17-87, Cl. 357-53.000.

Shirai, Masaharu, to Fuji Xerox Co., Ltd. Apparatus for generating an image from within a sheet-like member. 4,637,709, 1-20-87, Cl. 355-3.00R.

Shirai, Naotake; and Sugitani, Michio, to Dainippon Ink and Chemicals, Inc. Adhesive compositions for composite laminate films comprising polyol, polyisocyanate and anhydride having at least two acid anhydride groups. 4,654,409, 3-31-87, Cl. 528-26.000.

Shirai, Noboru: *See*—
Narita, Yasuhide; Shirai, Noboru; Kohro, Chihaya; and Hosono, Masami, 4,679,861, Cl. 301-37.00P.

Shirai, Norio; Kishimoto, Jotaro; Noguchi, Yukihide; Ishibe, Hideomi; and Nagai, Kiyoshi, to Takeda Chemical Industries, Ltd.; and Nippon Seisen Co., Ltd. Powder-air separator for use in a powder filling apparatus. 4,662,915, 5-5-87, Cl. 55-511.000.

Shirai, Ryoichi; Yokoyama, Fumitomo; and Kuramochi, Koujiro, to Aisin-Warner Limited; and Toyota Motor Corporation. Internal-gear pump with partition plate having a chamfered edge. 4,645,441, 2-24-87, Cl. 418-126.000.

Shirai, Shigeru: *See*—
Ogawa, Kyosuke; Shirai, Shigeru; Kanbe, Junichiro; Saitoh, Keishi; Osato, Yoichi; and Misumi, Teruo, 4,636,450, Cl. 430-84.000.
Ogawa, Kyosuke; Shirai, Shigeru; Saitoh, Keishi; Misumi, Teruo; and Kanbe, Junichiro, 4,637,972, Cl. 430-84.000.

Shirai, Shoji; Noda, Fumio; Iidaka, Yoshiaki; Yamauchi, Masaaki; and Fukushima, Masakazu, to Hitachi, Ltd.; and Hitachi Device Eng

neering Co., Ltd. Electron gun for color picture tube. 4,672,261, 6-9-87, Cl. 313-414.000.
Shirai, Tadao, to Nec Corporation. Microwave waveguide filter having a metal plate which includes a resonant aperture therein. 4,680,561, 7-14-87, Cl. 333-208.000.
Shirai, Takashi: *See*—
Fujita, Isao; and Shirai, Takashi, 4,659,451, Cl. 204-435.000.
Shirai, Takeshi: *See*—
Yoshimoto, Shin-ichi; Ando, Reigo; Shirai, Takeshi; and Nomura, Hiroshi, 4,674,077, Cl. 369-37.000.
Shirai, Tamotsu, and Kuroyanagi, Toshiya, to Tachikawa Spring Co., Ltd. Arm rest housing. 4,662,674, 5-5-87, Cl. 297-113.000.
Shirai, Tetsuaki, to Kawasaki Jukogyo Kabushiki Kaisha. Air-cooled overhead-valve engine. 4,672,922, 6-16-87, Cl. 123-41.660.
Shirai, Tetsuaki: *See*—
Mitadera, Takashi; Shirai, Tetsuaki; Nakagawa, Tomozo; Nii, Naotake; and Watanabe, Kozo, 4,688,529, Cl. 123-196.00R.
Shirai, Toshiaki: *See*—
Suzaki, Shunkichi; Shirai, Toshiaki; Adachi, Hisanobu; Hayashi, Masaharu; Hattori, Kenji; and Takakura, Yoshinari, 4,687,132, Cl. 236-35.000.
Shirai, Toshikazu: *See*—
Ueyama, Masato; Kanamaru, Takeshi; Shirai, Toshikazu; and Nakano, Kiyoshi, 4,673,075, Cl. 198-339.100.
Shirai, Toshio, to Sony Corporation. Air guide for tape copying apparatus. 4,698,700, 10-6-87, Cl. 360-16.000.
Shirai, Tsuneo; and Suzuki, Koji, to Kuraray Co., Ltd.; Showa Denko Kabushiki Kaisha; and Shirai, Tsuneo. Reference electrode. 4,645,583, 2-24-87, Cl. 204-435.000.
Shirai, Yasuyuki: *See*—
Takahashi, Nobuyuki; Sugimoto, Ryuji; and Shirai, Yasuyuki, 4,643,629, Cl. 414-331.000.
Shirai, Yoshinari; and Kuranaga, Tutomu, to Sanyo Electric Co., Ltd. Oven. 4,637,373, 1-20-87, Cl. 126-340.000.
Shirai, Yuji: *See*—
Ueno, Fumio; Yamakawa, Takeshi; and Shirai, Yuji, 4,694,418, Cl. 364-807.000.
Shiraimatsu Shinyaku Kabushiki Kaisha: *See*—
Nishimori, Shozo; and Eguma, Chikashi, 4,707,263, Cl. 210-484.000.
Shiraishi, Akira: *See*—
Hosoya, Yoshinori; Tunekawa, Shyozi; Yamada, Wazoh; and Shiraishi, Akira, 4,637,223, Cl. 62-263.000.
Yoshida, Masaru; Asano, Masaharu; Kaetsu, Isao; Nakai, Katsuyuki; Yamanaka, Hidetoshi; Shida, Keizo; and Shiraishi, Akira, 4,652,443, Cl. 424-487.000.
Shiraishi, Atsushi, to Fuji Photo Film Co., Ltd. Apparatus for positioning disc-shaped film unit. 4,676,710, 6-30-87, Cl. 414-225.000.
Shiraishi, Atsushi: *See*—
Kamiya, Kiyoshi; Shiraishi, Atsushi; and Suzuki, Fuminori, 4,694,348, Cl. 358-236.000.
Matsumoto, Fumio; Nakauchi, Kenji; and Shiraishi, Atsushi, 4,667,245, Cl. 358-214.000.
Yoshikawa, Sumio; and Shiraishi, Atsushi, 4,660,964, Cl. 355-28.000.
Shiraishi, Daiichi; Iwasaki, Eiji; and Fukumoto, Ryoichi, to Toyota Jidosha Kabushiki Kaisha; and Aisin Seiki Co., Ltd. Door window regulator. 4,644,695, 2-24-87, Cl. 49-352.000.
Shiraishi, Daiichi: *See*—
Hiramatsu, Eiji; and Shiraishi, Daiichi, 4,667,442, Cl. 49-441.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,658,475, Cl. 16-367.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,665,586, Cl. 16-319.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,665,587, Cl. 16-370.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,700,983, Cl. 296-146.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,700,984, Cl. 296-146.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,713,862, Cl. 16-223.000.
Shiraishi, Eiichi: *See*—
Ohata, Tomohisa; Terui, Sadao; and Shiraishi, Eiichi, 4,708,946, Cl. 502-304.000.
Shiraishi, Hajime, to Kabushiki Kaisha Toshiba. Clock generator with reset and initialization circuitry. 4,641,044, 2-3-87, Cl. 307-269.000.
Shiraishi, Hisashi; Kimura, Tsutomu; and Hishinuma, Kazuhiro, to Fuji Photo Film Co., Ltd. Signal detecting method in autoradiography. 4,665,312, 5-12-87, Cl. 250-303.000.
Shiraishi, Hisashi; Suyefuji, Mineo; and Kato, Masashi, to Director of the Finance Division Minister's Secretariat Science and Technology Agency. Process and apparatus for manufacturing element for electrophoresis. 4,699,680, 10-13-87, Cl. 156-242.000.
Shiraishi, Hisashi: *See*—
Okamura, Hisashi; Kawamoto, Hiroshi; and Shiraishi, Hisashi, 4,673,632, Cl. 430-510.000.
Shiraishi, Ikuya: *See*—
Mochizuki, Takeshi; Iwasawa, Katsumasa; Shiraishi, Ikuya; and Terafuji, Kazuki, 4,714,635, Cl. 427-421.000.
Shiraishi, Isao, to Kabushiki Kaisha Toshiba. Apparatus for manufacturing electric lamps. 4,647,277, 3-3-87, Cl. 445-67.000.
Shiraishi, Isao, to Kabushiki Kaisha Toshiba. Linear member feeding apparatus. 4,708,236, 11-24-87, Cl. 198-468.200.
Shiraishi, Kazuhiro: *See*—
Takada, Masaru; Shiraishi, Kazuhiro; and Iida, Noboru, 4,663,107, Cl. 264-519.000.
Shiraishi, Masao; Nishiya, Yoshinori; and Ito, Syoji, to Mitsubishi Petrochemical Co., Ltd. Exterior body part for automotive vehicle. 4,687,804, 8-18-87, Cl. 524-505.000.
Shiraishi, Masaru: *See*—
Nakamura, Tutomu; Shiraishi, Masaru; and Nawaki, Masaru, 4,670,765, Cl. 357-30.000.
Shiraishi, Masatoshi: *See*—
Toyooka, Tetsuo; and Shiraishi, Masatoshi, 4,662,062, Cl. 29-578.000.
Shiraishi, Masazumi; and Ikuta, Masaki, to Kabushiki Kaisha Toshiba Metalclad switchgear having separate assemblies. 4,677,524, 6-30-87, Cl. 361-335.000.
Shiraishi, Motoatsu: *See*—
Ookubo, Takeshi; Shiraishi, Motoatsu; Namiki, Akira; and Tazou, Ken, 4,688,668, Cl. 198-621.000.
Yamada, Hiroyasu; and Shiraishi, Motoatsu, 4,657,734, Cl. 419-9.000.
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,658,626, Cl. 72-405.000.
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,682,685, Cl. 198-621.000.
Shiraishi, Motoo; Tanaka, Manset; Nakamura, Minoru; and Sato, Koichi, to Nippon Steel Corporation. Marine structure of precoated corrosion resistant steel pipe piles. 4,659,255, 4-21-87, Cl. 405-216.000.
Shiraishi, Nobuaki, to Yamaha Hatsudoki Kabushiki Kaisha. Offroad running motorcycle. 4,650,026, 3-17-87, Cl. 180-227.000.
Shiraishi, Ryoichi: *See*—
Nishiguchi, Yasuo; Yasutomi, Tsuyoshi; and Shiraishi, Ryoichi, 4,691,210, Cl. 346-76.0PH.
Nishiguchi, Yasuo; Yasutomi, Tsuyoshi; and Shiraishi, Ryoichi, 4,698,643, Cl. 346-76.0PH.
Shiraishi, Shiro: *See*—
Nakatani, Kiyoshi; Numata, Satoshi; Kodaka, Kenji; Oda, Kengo; Shiraishi, Shiro; and Udagawa, Takatoshi, 4,661,501, Cl. 514-345.000.
Shiraishi, Takao: *See*—
Ishino, Tsutomu; Omatsu, Hideo; Shiraishi, Takao; and Kawakami, Hideaki, 4,699,239, Cl. 180-315.000.
Shiraishi, Takashi, to Tokyo Shibaura Denki Kabushiki Kaisha. Bidirectional power switch with optimized emitter spacing near control electrode. 4,641,175, 2-3-87, Cl. 357-39.000.
Shiraishi, Takashi; and Kitamura, Shirou, to Sanko Giken Kogyo Co., Ltd. Apparatus for measuring diameter of cutting portion of drill. 4,657,395, 4-14-87, Cl. 356-385.000.
Shiraishi, Takashi; and Kitamura, Shiro, to Enushii Shangyo Co., Ltd. Bore measuring system. 4,687,328, 8-18-87, Cl. 356-384.000.
Shiraishi, Toshiyuki, to Nifco, Inc. Automobile door switch bumper. 4,665,285, 5-12-87, Cl. 200-61.620.
Shiraishi, Toshiyuki: *See*—
Koyama, Toshihiro; Watanabe, Takahiro; Shiozaki, Hiroyuki; Kawanami, Takao; Takahashi, Hideo; Shiraishi, Toshiyuki; and Okudaira, Ken, 4,665,729, Cl. 72-8.000.
Shiraishi, Yasuhisa; Fujita, Takashi; Ochi, Yoshiharu; Hirose, Masahiko; Ichihara, Kaisutarou; and Ishigami, Takashi, to Kabushiki Kaisha Toshiba. Black ornament. 4,634,635, 1-6-87, Cl. 428-446.000.
Shiraishi, Yoshitaka: *See*—
Maruyama, Senchiro; Hayashida, Hironori; Morita, Kazumasa; and Shiraishi, Yoshitaka, 4,707,512, Cl. 524-504.000.
Shirakabe, Kazuhisa; Ishii, Kazuo; and Iriono, Masatoshi, to NEC Corporation. Bar code discriminating apparatus for bar code reading. 4,667,089, 5-19-87, Cl. 235-462.000.
Shirakami, Toshiharu: *See*—
Inokuchi, Kiyoshi; Sugimachi, Keizo; Shirakami, Toshiharu; Kai, Hidenobu; Kawai, Yoshio; and Hotta, Tetsuya, 4,676,258, Cl. 128-804.000.
Shirakawa, Hiromu: *See*—
Motoyama, Shimesu; Gotou, Masakazu; Shirakawa, Hiromu; and Makino, Takamoto, 4,640,218, Cl. 118-19.000.
Shirakawa, Kiyoshi: *See*—
Kamei, Takao; Ono, Fuminobu; Komai, Keiichi; Wakabayashi, Takeshi; Ogawa, Takayuki; Ito, Hideaki; and Shirakawa, Kiyoshi, 4,702,745, Cl. 44-10.00D.
Shirakawa, Seiichi: *See*—
Nishi, Toshiro; Murakami, Nobuaki; Ueda, Kenji; Shirakawa, Seiichi; Notomi, Akira; Hisamatsu, Kenichi; and Kaneko, Shozo, 4,686,158, Cl. 429-26.000.
Shirakawa, Shingo; Maruyama, Seiichi; Nakano, Seizo; Okamoto, Eichi; and Kohara, Kenji, to Hitachi, Ltd.; and Chugoku Electric Power Co., Inc., The. Transmission line protection system. 4,675,773, 6-23-87, Cl. 361-63.000.
Shiraki, Chihiro: *See*—
Hirata, Tadashi; Mochida, Kenichi; Shiraki, Chihiro; and Sato, Kiyoshi, 4,694,001, Cl. 514-210.000.
Shiraki, Kenhachi; Kikkawa, Shinichi; Izawa, Takaharu; Miyazaki, Yoshifumi; Nonoue, Torahiko; and Moriki, Etsuzo, to Sanyo Electric Co., Ltd. Apparatus for scanning an original. 4,645,328, 2-24-87, Cl. 355-8.000.
Shiraki, Makoto; Yoshida, Masashi; and Matsuno, Jyunichi, to Hitachi, Ltd. Control system for a color printer. 4,667,208, 5-19-87, Cl. 346-76.0PH.
Shiraki, Manabu; Amano, Hiroyuki; Nishimura, Tomoaki; and Shimizu, Katsumasa, to Aisin Seiki Kabushiki Kaisha. Electric motor. 4,651,041, 3-17-87, Cl. 310-180.000.
Shiraki, Manabu; Amano, Hiroyuki; Nishimura, Tomoaki; and Shimizu, Katsumasa, to Aisin Seiki Kabushiki Kaisha. Electric motor operated throttle valve. 4,698,535, 10-6-87, Cl. 310-156.000.

Shiraki, Manabu: *See*—
Miyao, Osami; Shiraki, Manabu; and Ohsaka, Masayuki, 4,707,645, Cl. 318-254.000.

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Shiraki, Yasuhiro: *See*—
Sawada, Yasushi; Ueyanagi, Kiichi; Katayama, Yoshifumi; Shiraki, Yasuhiro; Morioka, Makoto; Kuroda, Takao; and Mishima, Tomoyoshi, 4,672,406, Cl. 357-22.000.

Shirakuma, Takashi, to Tokico Ltd. Control system for hydraulic dampers. 4,635,960, 1-13-87, Cl. 280-707.000.

Shirakuma, Takashi, to Tokico, Ltd. Control system for hydraulic dampers. 4,666,180, 5-19-87, Cl. 280-707.000.

Shirakuma, Takashi: *See*—
Ashiba, Masahiro; and Shirakuma, Takashi, 4,689,589, Cl. 335-272.000.

Shirakura, Akira; Yonezawa, Ichiro; and Yokokura, Shuichi, to Kirin Beer Kabushiki Kaisha. Apparatus for sorting out defective plastic crates for bottles. 4,676,379, 6-30-87, Cl. 209-599.000.

Shiraogawa, Yukio: *See*—
Urushibata, Yukio; and Shiraogawa, Yukio, 4,653,110, Cl. 382-41.000.

Shirasaka, Hiroharu: *See*—
Kume, Hisao; Nishihara, Tokihiro; Shirasaka, Hiroharu; Kanehira, Kenichi; and Saita, Koji, 4,682,965, Cl. 445-37.000.

Shirasaka, Toshio, to Kabushiki Kaisha Toshiba. Ultrasonic imaging apparatus using pulsed Doppler signal. 4,660,565, 4-28-87, Cl. 128-660.000.

Shirasaka, Toshio: *See*—
Saito, Kazuyoshi; Iida, Taketoshi; Shirasaka, Toshio; and Takemura, Yasuhiko, 4,665,924, Cl. 128-660.000.

Shirasaki, Masataka; Nakajima, Hirochika; Furukawa, Yasuo; and Inagaki, Takefumi, to Fujitsu Limited. Laser light source device. 4,637,027, 1-13-87, Cl. 372-27.000.

Shirasaki, Masataka, to Fujitsu Limited. Polarizing element. 4,641,926, 2-10-87, Cl. 350-394.000.

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Shirasaki, Masataka, to Fujitsu Limited. Polarization rotation compensator and optical isolator using the same. 4,712,880, 12-15-87, Cl. 350-377.000.

Shirasaki, Osamu: *See*—
Miyawaki, Yoshinori; Ueno, Satoshi; Egawa, Satoshi; and Shirasaki, Osamu, 4,703,760, Cl. 128-681.000.
Namba, Mutsusuke; Shirasaki, Osamu; and Hirata, Tomohiko, 4,650,815, Cl. 521-77.000.

Shirasaki, Shin-ichi; Hotta, Yasunari; Yamamura, Hiroshi; Matsuda, Shin-ichi; Kakegawa, Kazuyuki; Moriyoshi, Yusuke; Takahashi, Koichiro; and Haneda, Hajime, to National Institute for Researches in Inorganic Materials. Wet process for the production of a readily sinterable powder material of perovskite or its solid solution. 4,696,810, 9-29-87, Cl. 423-593.000.

Shirasaki, Yuichi: *See*—
Asakawa, Kenichi; Shirasaki, Yuichi; and Iwamoto, Yoshinao, 4,641,915, Cl. 350-96.180.
Iwamoto, Yoshinao; Shirasaki, Yuichi; Fujise, Masayuki; and Asakawa, Kenichi, 4,637,686, Cl. 350-96.290.

Shirasawa, Hiroshi: *See*—
Umemoto, Yonetsugu; Shirasawa, Hiroshi; Ogo, Muneya; Kinoshita, Kazumasa; and Kondo, Tetsuo, 4,690,581, Cl. 403-133.000.

Shirasawa, Katsuhiko: *See*—
Koiwai, Sakae; Asaoka, Keizo; Shirasawa, Katsuhiko; Watanabe, Hiroyuki; and Honda, Iunichi, 4,640,001, Cl. 29-572.000.

Shirasawa, Toshikatsu; and Hosokawa, Yoshikazu, to Hitachi, Ltd. Semiconductor device with field plate. 4,654,691, 3-31-87, Cl. 357-53.000.

Shirashoji, Hisashi: *See*—
Nakasaki, Eiji; Shirashoji, Hisashi; Hoshikawa, Katsuyuki; Kamijo, Takao; Ikeda, Kazushige; Inoue, Yasuhiro; and Kato, Takeo, 4,640,329, Cl. 152-209.00R.

Shirasu, Chikao; Sakai, Hideo; and Innami, Yasutaka, to Honda Giken Kogyo Kabushiki Kaisha. Sealing structure for an automotive vehicle. 4,653,801, 3-31-87, Cl. 296-202.000.

Shirasu, Hiroshi; Shimeno, Kazuhiro; and Iwamoto, Joji, to Nippon Kogaku K. K. Machining apparatus with laser beam. 4,710,604, 12-1-87, Cl. 219-121.0LU.

Shirasu, Hirotoshi: *See*—
Mukaemachi, Takuji; Shirasu, Hirotoshi; and Suzuki, Taihei, 4,663,759, Cl. 370-110.200.

Shirasu, Masanori, to Mitsubishi Denki Kabushiki Kaisha. Cutter control apparatus. 4,635,511, 1-13-87, Cl. 83-71.000.

Shirataki, Kenji, to Tokai Shoji Co., Ltd. Method and an apparatus for applying an emulsion onto a screen-printing plate. 4,668,329, 5-26-87, Cl. 156-540.000.

Shirato, Kozo; Kawashima, Kazuyasu; and Sato, Yoshihiro, to Erma Optical Works, Ltd. Apparatus for measuring impurities in ultrapure water. 4,651,087, 3-17-87, Cl. 324-71.400.

Shirato, Kozo; Hiraizumi, Kazuo; Kobayashi, Masashi; and Kawashima, Kazuyasu, to Erma Inc. Apparatus for adjusting the concentration of a solution. 4,652,364, 3-24-87, Cl. 210-87.000.

Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, to Erma Optical Works, Ltd.; and Ulvac Service Corporation. Apparatus for measuring impurities in super-pure water without exposure to surrounding atmosphere. 4,680,552, 7-14-87, Cl. 324-439.000.

Shirato, Takehide; and Fujita, Kouichi, to Fujitsu Limited. Buffer circuit having a P-channel output mosfet with an open drain terminal connected to an external load. 4,677,314, 6-30-87, Cl. 307-270.000.

Shirato, Takehide; and Sekine, Shinichi, to Fujitsu Limited. Protection device in an integrated circuit. 4,710,791, 12-1-87, Cl. 357-23.130.

Shirato, Yoshiaki; Komatsu, Toshiyuki; Seito, Shinichi; Kawai, Tatsundo; Iwamoto, Hirofumi; Nakagawa, Katsumi; and Kuroda, Yasuo, to Canon Kabushiki Kaisha. Method and apparatus for reading an image. 4,680,644, 7-14-87, Cl. 358-294.000.

Shirato, Yoshiaki: *See*—
Hara, Toshitami; Sato, Yasushi; Takatori, Yasushi; and Shirato, Yoshiaki, 4,707,705, Cl. 346-75.000.

Shiratori, Kazuhide, to Sony Corporation. Cassette tape recording and/or reproducing apparatus accommodating cassettes of different sizes. 4,664,337, 5-12-87, Cl. 242-199.000.

Shiratori, Kohya: *See*—
Sato, Yoshihisa; Hirao, Tetsuji; Magara, Tsunao; and Shiratori, Kohya, 4,666,929, Cl. 514-357.000.

Shiratori, Osamu: *See*—
Totani, Tetsushi; Shiratori, Osamu; Aono, Katsutoshi; and Uchida, Naomi, 4,658,048, Cl. 556-137.000.

Shiratori Pharmaceutical Co., Ltd.: *See*—
Sakai, Hideaki; and Kanai, Tadashi, 4,713,454, Cl. 544-258.000.

Shiratsuchi, Masami; Kawamura, Kiyoshi; Akashi, Toshihiro; Ishihama, Hiroshi; and Uchida, Yasumi, to Kowa Company, Ltd. Optical isomers, processes for production thereof and pharmaceutical composition thereof. 4,678,803, 7-7-87, Cl. 514-456.000.

Shiratsuki, Yoshiyuki: *See*—
Mita, Tsunemasa; Katoh, Ryoki; Sekimoto, Soichi; Shiratsuki, Yoshiyuki; and Arisawa, Hiroshi, 4,697,204, Cl. 357-74.000.

Shirayanagi, Moriyasu; Shindo, Osamu; Aiura, Hirochika, and Hara, Tadao, to Asahi Kogaku Kogyo Kabushiki Kaisha. Lens meter having a focusing indication system with divided-image registration focusing. 4,637,720, 1-20-87, Cl. 356-125.000.

Shirazawa, Takashi; and Inoue, Takeo, to Mitsubishi Denki Kabushiki Kaisha. Corrosion resistant metal pipe with electrode for oil wells. 4,665,305, 5-12-87, Cl. 219-277.000.

Shirco Infrared Systems, Inc.: *See*—
Welsh, James N., 4,702,178, Cl. 110-193.000.

Shirek, Frank A. Rock digging apparatus. 4,641,439, 2-10-87, Cl. 37-2.00R.

Shireman, Paul M.: *See*—
Cameron, Donald C.; and Shireman, Paul M., 4,687,421, Cl. 417-296.000.

Shirey, Phillip G.; Rowe, David W.; and Waynick, William R., to Paul Mueller Company. Dual-walled coiled plate heat exchanger with vented interface. 4,678,027, 7-7-87, Cl. 165-70.000.

Shirey, Richard; and Sauer, Gale E., to Donn Incorporated. Suspension ceiling grid system with narrow-faced grid. 4,679,375, 7-14-87, Cl. 52-777.000.

Shirey, Richard: *See*—
Mieyal, David F.; Shirey, Richard; and Worley, Robert F., 4,648,230, Cl. 52-667.000.

Shirgley, David A.: *See*—
Domenik, Stephen L.; Folmsbee, Alan C.; Nguyen, Tai; and Shirgley, David A., 4,694,412, Cl. 364-717.000.

Shiring, Francis J., III: *See*—
Cullo, Leonard A.; and Shiring, Francis J., III, 4,711,869, Cl. 502-239.000.

Shirk, James E.: *See*—
Sigerson, Adam L.; and Shirk, James E., 4,715,965, Cl. 210-800.000.

Shirk, Michael E.: *See*—
Myers, Earl C.; Shirk, Michael E.; and Waters, Mark H., 4,689,723, Cl. 361-424.000.

Shirk, Raymond A.: *See*—
Belke, Robert E., Jr.; Shirk, Raymond A.; Lin, Hsiu H.; and Zakraysek, Louis, 4,679,122, Cl. 361-414.000.

Shirley, Arthur R., Jr., to Agro-Systems Inc. Acidifier-ammoniator. 4,650,682, 3-17-87, Cl. 426-69.000.

Shirley, Brenda: *See*—
Degen, Peter J.; Martin, Jerold; Schriefer, Judy; and Shirley, Brenda, 4,693,985, Cl. 436-531.000.

Shirley, David, to NL Petroleum Products Limited. Rotary drill bits. 4,700,790, 10-20-87, Cl. 175-410.000.

Shirley-Fisher, David N.: *See*—
Wardley, Michael T.; and Shirley-Fisher, David N., 4,705,122, Cl. 175-329.000.

Shirley, John R., to Central Security Mfg. Corp. Personnel security system. 4,682,155, 7-21-87, Cl. 340-573.000.

Shirley, Kirk R. Drill steering apparatus. 4,635,736, 1-13-87, Cl. 175-76.000.

Shirley, Ralph E., to Deere & Company. Vehicle accessory control system. 4,642,770, 2-10-87, Cl. 364-424.000.

Shirley, Thomas F., Jr.: *See*—
Burke, Timothy M.; Shirley, Thomas F., Jr.; Schorman, Eric R.; and Goldsmith, Eric S., 4,677,656, Cl. 379-63.000.

Shirogami, Tamotsu: *See—*
Ogawa, Takashi; Shirogami, Tamotsu; and Murata, Kenji, 4,708,916, Cl. 429-38.000.
Ueno, Mitsushi; Shirogami, Tamotsu; and Segawa, Noboru, 4,661,423, Cl. 429-41.000.

Shiroi, Takashi: *See—*
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,656,264, Cl. 540-353.000.
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,665,166, Cl. 540-215.000.
Torii, Sigeru; Uneyama, Kenji; Tanaka, Hideo; Nokami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,689,411, Cl. 540-358.000.

Shiroishi, Yoshihiro: *See—*
Nakamura, Hitoshi; Shiiki, Kasuo; Yuito, Isamu; Shiroishi, Yoshihiro; Fujiwara, Hideo; Shinagawa, Kiminari; and Iijima, Akemi, 4,636,897, Cl. 360-119.000.
Shiiki, Kazuo; Shiroishi, Yoshihiro; Yuito, Isamu; Shinagawa, Kiminari; and Fujiwara, Hideo, 4,651,248, Cl. 360-119.000.

Shirokane, Makoto: *See—*
Takeda, Hiromitsu; Nakahashi, Masako; Shirokane, Makoto; Tsuge, Akihiko; and Suzuki, Takao, 4,685,607, Cl. 228-193.000.

Shiroki Kinzoku Kogyo Kabushiki Kaisha: *See—*
Katsumoto, Naoaki; and Miyagawa, Toshihito, 4,715,655, Cl. 297-362.000.

Shiromizu, Hisaharu: *See—*
Masuda, Senichi; Fukuura, Isamu; and Shiromizu, Hisaharu, 4,666,679, Cl. 422-186.200.
Masuda, Senichi; Fukuura, Isamu; Shiromizu, Hisaharu; and Morita, Naotoshi, 4,672,503, Cl. 361-230.000.

Shirose, Meizo; Takahashi, Jiro; Tsuchiya, Hiroshi; and Kaneko, Tadashi, to Konishiroku Photo Industry Co., Ltd. Toner for developing electrostatic latent image. 4,652,509, 3-24-87, Cl. 430-110.000.

Shiroshita, Osamu; Ishiguro, Yasuo; and Itou, Yoshizumi, to Kabushiki Kaisha Toyota Chuo Kenkyusho; and Toyota Jidosha Kabushiki Kaisha. Tracking robot apparatus. 4,712,183, 12-8-87, Cl. 364-513.000.

Shirota, Norihisa; Yamazaki, Takao; and Iwase, Seiichiro, to Sony Corporation. Digital time base corrector. 4,677,499, 6-30-87, Cl. 358-339.000.

Shirota, Norihisa, to Sony Corporation. Arithmetic circuit for obtaining the vector product of two vectors. 4,697,248, 9-29-87, Cl. 364-754.000.

Shirotani, Yusuke: *See—*
Matsuo, Kazuhiko; Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; Shiwata, Akio; Hamada, Yoneichi; Komatsu, Yoshimi; Kondo, Tsuneo; Shirotani, Yusuke; Nakashima, Hirohisa; and Matsuda, Yasuhiro, 4,674,101, Cl. 373-95.000.

Shirotori, Hidefumi: *See—*
Kojima, Sadao; Abe, Hitoshi; Ishizaki, Fumio; Otani, Atusi; and Shirotori, Hidefumi, 4,680,999, Cl. 82-36.00B.

Shirouzu, Shunji: *See—*
Sekimura, Masayuki; and Shirouzu, Shunji, 4,637,253, Cl. 73-189.000.

Shiroyama, Kazuhiko: *See—*
Noda, Yasushi; and Shiroyama, Kazuhiko, 4,675,762, Cl. 360-97.000.

Shiroyanagi, Yoshiro: *See—*
Nakamura, Katsunori; Kurano, Akira; Shiroyanagi, Yoshiro; and Kishiro, Shigeru, 4,688,221, Cl. 371-13.000.

Shiroza, Teruaki: *See—*
Yamane, Kunio; Oimura, Kazutaka; Yamazaki, Hisato; and Shiroza, Teruaki, 4,690,898, Cl. 435-320.000.

Shiseido Company, Ltd.: *See—*
Sato, Yoshihisa; Hirao, Tetsuji; Magara, Tsunao; and Shiratori, Kohya, 4,666,929, Cl. 514-357.000.
Sugiyama, Yasuo; Hiraoka, Osamu; Nakazawa, Tamotsu; and Nakamura, Kenji, 4,643,939, Cl. 428-283.000.
Terajima, Yushi; Tokuda, Katsuhiko; Nakamura, Shoji; Uehara, Ketichi; Ichikawa, Hideyuki; and Iwakami, Shinobu, 4,663,080, Cl. 252-522.00R.
Yagita, Yoshiaki; Okunuki, Yutaka; Ikeda, Toshihide; and Hyodo, Shoji, 4,650,672, Cl. 424-69.000.

Shishido, Katsuya: *See—*
Asagi, Yasuyoshi; Ogawa, Noriaki; Moride, Shigeki; Hattori, Toshihiro; and Shishido, Katsuya, 4,671,397, Cl. 192-0.052.
Hattori, Toshihiro; Shishido, Katsuya; Kasai, Hitoshi; Moride, Shigeki; and Ogawa, Noriaki, 4,685,051, Cl. 364-424.100.
Kasai, Hitoshi; Asagi, Yasuyoshi; Hattori, Toshihiro; Saito, Hideo; and Shishido, Katsuya, 4,635,214, Cl. 364-551.000.

Shishido, Shigeyuki: *See—*
Ibi, Akira; Sato, Takushi; Yamaguchi, Akihiro; Takahashi, Shigeru; Shishido, Shigeyuki; Tamai, Shoji; and Nakajima, Hisai, 4,687,836, Cl. 528-353.000.

Shishido, Tadao: *See—*
Inagaki, Yoshio; and Shishido, Tadao, 4,711,963, Cl. 548-365.000.
Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, 4,665,017, Cl. 430-569.000.
Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, 4,681,838, Cl. 430-367.000.
Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, 4,713,321, Cl. 430-569.000.

Shishido, Tsutomu: *See—*
Yamashita, Sadahiko; Hasegawa, Makoto; Ohba, Motoi; Kikuchi, Koh; and Shishido, Tsutomu, 4,661,998, Cl. 455-315.000.

Shishido, Yoshio, to Olympus Optical Co., Ltd. Endoscope means and ovum picker employed by inserting through endoscope means. 4,700,694, 10-20-87, Cl. 128-6.000.

Shishido, Yoshio; Takahashi, Susumu; Matsuo, Kazumasa; Miyazaki, Atsushi; Nishigaki, Shinichi; Kato, Shinichi; Nakamura, Takeaki; and Ishikawa, Akibumi, to Olympus Optical Co., Ltd. Apparatus for photometrically detecting an optically focused condition of an optical system. 4,711,999, 12-8-87, Cl. 250-204.000.

Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; Yamada, Osamu; and Ueguri, Shigeharu, to Oki Electric Industry Co., Ltd.; Nippon Hoso Kyokai; and Victor Co. Error correction system in a teletext system. 4,672,612, 6-9-87, Cl. 371-37.000.

Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; and Yamada, Osamu, to OKI Electric Industry Co., Ltd.; and Nippon Hoso Kyokai. Error correction system for difference set cyclic code in a teletext system. 4,675,868, 6-23-87, Cl. 371-37.000.

Shishkin, Viktor V.; Shlatgauer, Boris I.; and Medunitsa, Vladimir L. Apparatus for repairing a pipeline. 4,699,078, 10-13-87, Cl. 118-72.000.

Shishlov, Vyacheslav I.: *See—*
Masovich, Felix Z.; Khorin, Vladimir N.; Golubeva, Svetlana M.; and Shishlov, Vyacheslav I., 4,633,723, Cl. 74-141.500.

Shishov, Nikolai M.; Zelenetsky, Vladimir E.; Demina, Nadezhda A.; Bondarev, Ivan M.; Cherny, Alexandr N.; Avxentiev, Anatoly G.; and Rylov, Evgeny E., deceased (by Rybakova, Nina A., administratrix), to Vsesojuzny Nauchno-Issledovatelsky Institut Meditsinskikh Polimerov. Device for administering powdered substances. 4,645,487, 2-24-87, Cl. 604-58.000.

Shitaoka, Shizuo: *See—*
Tokumoto, Minoru; Takagi, Motoyuki; Shitaoka, Shizuo; Gold, Samuel; and Iovine, Carmine P., 4,710,526, Cl. 524-5.000.

Shitaokoshi, Sachiro; Sekiguchi, Mamoru; Takagi, Toshiaki; and Mori, Toshimichi, to Terumo Kabushiki Kaisha. Blood reservoir. 4,705,497, 11-10-87, Cl. 604-4.000.

Shitara, Mototaka: *See—*
Nomura, Hiroshi; Shitara, Mototaka; Echizen, Susumu; and Saito, Susumu, 4,704,073, Cl. 417-269.000.

Shitori, Kunio: *See—*
Arakawa, Shunsuke; and Shitori, Kunio, 4,686,347, Cl. 219-117.100.

Shitori, Yoshiyasu: *See—*
Ogasawara, Sadanori; Hanafusa, Takashi; Kariya, Katsuhide; Ito, Masayoshi; and Shitori, Yoshiyasu, 4,698,332, Cl. 514-42.000.
Ogawa, Tomoya; Sugimoto, Mamoru; Shitori, Yoshiyasu; and Ito, Masayoshi, 4,694,076, Cl. 536-17.200.
Ogura, Haruo; Furuhata, Kunio; Osawa, Toshiaki; Toyoshima, Satoshi; Shitori, Yoshiyasu; Ito, Masayoshi; and Yoshimura, Shoji, 4,691,012, Cl. 536-23.000.
Shibayama, Shohei; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, 4,663,443, Cl. 536-4.100.
Shibayama, Shohei; Matsuzaki, Yuzi; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, 4,675,391, Cl. 536-17.400.

Shiuey, Shian-Jan: *See—*
Partridge, John J.; Shiuey, Shian-Jan; and Uskokovic, Milan R., 4,634,692, Cl. 514-167.000.
Partridge, John J.; Shiuey, Shian-Jan; and Uskokovic, Milan R., 4,652,405, Cl. 260-397.100.

Shiung, Huang J.: *See—*
DeLuca, Charles Q.; and Shiung, Huang J., 4,710,090, Cl. 414-550.000.

Shivarov, Georgi S.: *See—*
Savov, Svetoslav A.; Mintchev, Mintcho S.; Nitchev, Peter T.; and Shivarov, Georgi S., 4,648,952, Cl. 204-192.120.

Shivers, Raymond P.: *See—*
Lynch, Donald J.; and Shivers, Raymond P., 4,636,393, Cl. 426-276.000.

Shiwata, Akio: *See—*
Matsuo, Kazuhiko; Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; Shiwata, Akio; Hamada, Yoneichi; Komatsu, Yoshimi; Kondo, Tsuneo; Shirotani, Yusuke; Nakashima, Hirohisa; and Matsuda, Yasuhiro, 4,674,101, Cl. 373-95.000.

Shizukuishi, Makoto: *See—*
Kondo, Ryuji; Murayama, Jin; Shizukuishi, Makoto; Tamayama, Hiroshi; and Yano, Takashi, 4,668,990, Cl. 358-213.230.
Murayama, Jin; Kondo, Ryuji; Tamayama, Hiroshi; Yano, Takashi; and Shizukuishi, Makoto, 4,686,573, Cl. 358-213.220.

Shizume, Yasumichi, to NEC Corporation. Mixer circuit. 4,691,379, 9-1-87, Cl. 455-319.000.

Shizuo, Nakano: *See—*
Hitoshi, Yamazaki; Takao, Takeda; Shizuo, Nakano; Kouji, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,659,962, Cl. 313-493.000.
Takao, Takeda; Hitoshi, Yamazaki; Shizuo, Nakano; Kouzi, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,645,972, Cl. 313-634.000.

Shkedi, Zvi, to Garrett Corporation, The. Temperature compensated pressure transducer. 4,689,999, 9-1-87, Cl. 73-708.000.

Shkidchenko, Alexandr N.: *See—*
Redikultsev, Jury V.; Zanin, Jury G.; Shkidchenko, Alexandr N.; Gorbunov, Oleg P.; Maximov, Mikhail G.; and Chermenskaya, Taisia S., 4,689,306, Cl. 435-292.000.

Shkolnik, Alexander: *See—*
Borodulin, German; Persidsky, Maxim; and Shkolnik, Alexander, 4,705,029, Cl. 128-43.000.

Shlain, Vladimir: *See—*
Palmin, Simyon; and Shlain, Vladimir, 4,714,867, Cl. 318-696.000.

Shlatgauer, Boris I.: *See*—
Shishkin, Viktor V.; Shlatgauer, Boris I.; and Medunitsa, Vladimir L., 4,699,078, Cl. 118-72.000.

SHM Alcatel: *See*—
Peyre, Jacques, 4,664,005, Cl. 83-205.000.

Shmatovich, Chris A.: *See*—
Tengler, John N.; and Shmatovich, Chris A., 4,664,467, Cl. 339-177.00R.

Shmuel, Reich: *See*—
Berliner, Shlomo; Vered, Areyh; Shmuel, Reich; and Vaige, Moshe, 4,703,259, Cl. 324-95.000.

Shmuel, Sorek: *See*—
Gordon, Tsvi J.; Shmuel, Sorek; and Moseinco, David, 4,676,165, Cl. 102-251.000.

Shmulovich, Joseph: *See*—
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Sekimura, Nobuyuki; Fukaya, Masaki; Nakagawa, Katsumi; Komatsu, Toshiyuki; Shoji, Tatsumi; and Furushima, Teruhiko, 4,667,214, Cl. 357-30.000.

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Igarashi, Tadashi; Yamaji, Mikio; and Oneyama, Naotake, 4,674,958, Cl. 417-225.000.
Kaneko, Junya, 4,700,611, Cl. 91-405.000.
Kosugi, Seiji; and Suzuki, Tadao, 4,643,393, Cl. 251-129.010.
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Kudinov, Gennady A.; Lysenko, Evgeny E.; Ioshpa, Vladimir G.; Tolochko, Alexei I.; Shokul, Anatoly A.; and Nekrasov, Ignaty N., 4,676,487, Cl. 266-194.000.

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Berfield, Robert C.; and Fegan, Richard M., 4,642,841, Cl. 15-330.000.
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Shopsmith, Inc.: *See*—
Haas, Charles J.; Timman, Dale; and Stolzenberg, John H., 4,658,687, Cl. 83-438.000.
Snyder, Steven A.; Smith, Jack; Flora, David D.; and Bartlett, Robert L., 4,694,713, Cl. 82-14.00R.
Snyder, Steven A., 4,715,872, Cl. 55-315.000.
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Shore, John H.: *See*—
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Hamilton, Herbert E.; and Shorey, Thomas H., 4,635,883, Cl. 244-137.00R.
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Schofield, Roy A., 4,709,153, Cl. 250-353.000.
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Finnigan, Henry W., 4,671,736, Cl. 416-46.000.
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Cole, Derek; and Arnold, Michael J., 4,674,714, Cl. 244-134.00B.
Lewis, William W., 4,699,337, Cl. 244-137.100.
Moles, John A. G.; and McMahon, Colbert M., 4,690,007, Cl. 74-5.120.
Montgomery, William J.; and Nicholson, Eric, 4,702,435, Cl. 244-3.130.
Short, Edward H., III, to BS&B Safety Systems, Inc. Pressure relief method and rupture disk assembly. 4,657,157, 4-14-87, Cl. 220-89.00A
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Short, Jimmie N., to Ralph J. Stolle Company. Method for charging electrical storage batteries. 4,641,078, 2-3-87, Cl. 320-21.000.
Short, Keith E., to Sundstrand Corporation. Boiler for a torpedo and system including the same. 4,680,934, 7-21-87, Cl. 60-652.000.
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Short, Robert E.: *See—*
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Short, Stephen P., to General Electric Company. Plug arrangement for electric cord set. 4,655,536, 4-7-87, Cl. 339-191.00R.
Short, Thomas D.: *See—*
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Shorter, John J.; and Early, Stanley T., to Chas. A. Blatchford & Sons Limited. Artificial ankle joint. 4,645,508, 2-24-87, Cl. 623-48.000.
Shorter, Walter E.: *See—*
Ness, Ervin D.; and Shorter, Walter E., 4,649,666, Cl. 47-43.000.
Shortes, Samuel R.: *See—*
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Shortt, Alexandra B., to Stauffer Chemical Company. S-propargyl trithiophosphonate insecticides. 4,654,430, 3-31-87, Cl. 558-217.000.
Shortt, Alexandra B.; and Haag, William G., to Stauffer Chemical Company. Trithiophosphonate insecticides. 4,678,778, 7-7-87, Cl. 514-141.000.
Shortt, Alexandra B.: *See—*
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Shota, Minoru, to Sharp Kabushiki Kaisha. Speaker activation control by microcomputer. 4,668,937, 5-26-87, Cl. 340-384.00R.
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Lavens, Thomas R.; Corrigan, Francis R.; Shott, Richard L.; and Bovenkerk, Harold P., 4,673,414, Cl. 51-293.000.
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Watanabe, Kazuo; Shougase, Hajime; and Umeoka, Akio, 4,634,139, Cl. 280-288.000.
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Akiyama, Steven R.; Zaker, Ronald C.; and Shoup, Curtis C., 4,685,037, Cl. 362-276.000.
Shoup, Walter C., II, to Autographic Business Forms, Inc. Computer assisted design and electromechanical operating system. 4,654,805, 3-31-87, Cl. 364-520.000.
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Johnson, Allan P.; and Shovan, Ronald W., 4,659,930, Cl. 250-336.100.
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Showa Aluminum Corporation: *See—*
Nakabayashi, Masamitsu; Kawai, Hideo; Tatsukawa, Suminori; and Kaji, Masayuki, 4,686,133, Cl. 428-209.000.
Ootsuka, Ryotatsu; Tanimoto, Shigemi; and Toyoda, Kazuo, 4,670,050, Cl. 75-68.00R.
Showa Aluminum Industries K.K.: *See—*
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,653,571, Cl. 164-490.000.
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Yanagimoto, Shigeru; and Mitamura, Ryota, 4,664,175, Cl. 164-455.000.
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Higashi, Kenji; Ohnishi, Tadakazu; and Tsukuda, Ichizo, 4,713,216, Cl. 420-532.000.
Okamoto, Masayoshi; Suzuki, Katsuhisa; Hoshino, Ryoichi; and Sasaki, Hironaka, 4,712,612, Cl. 165-146.000.
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Izumi, Tomoo, 4,645,533, Cl. 75-0.5AB.
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Aoki, Hisashi; Kodera, Kaoru; and Okugawa, Tetsuo, 4,668,050, Cl. 350-349.000.
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Heeger, Alan J.; Yoshida, Haruo; Naito, Kazumi; and Kobayashi, Yukio, 4,657,694, Cl. 252-299.010.
Hiraiwa, Tadashi; and Ando, Eizi, 4,686,774, Cl. 34-9.000.
Honda, Tatsutoku; Endo, Michiyuki; Wakamatsu, Saburo; and Kudo, Yoshio, 4,682,855, Cl. 350-276.00R.
Hoshi, Katsumasa, 4,657,182, Cl. 239-33.000.
Kudo, Yoshio; Kumagai, Hirohiko; Yamaguchi, Katsunobu; and Wakamatsu, Saburo, 4,650,287, Cl. 350-322.000.
Maeda, Masahiko; Nagata, Kazuya; Otani, Taketsugu; and Saito, Yasutoki, 4,671,984, Cl. 428-209.000.
Matsubara, Mamoru, 4,645,698, Cl. 428-68.000.
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Nagato, Nobuyuki; Mori, Hideki; Maki, Kenichiro; and Ishioka, Ryoji, 4,634,784, Cl. 549-521.000.
Naitoh, Kazumi; Ikezaki, Takashi; and Shimodaira, Saburo, 4,648,010, Cl. 361-433.000.
Sakimoto, Seiichiro; Fujita, Kazuo; Yamauchi, Yutaka; and Matsuo, Hiroshi, 4,678,710, Cl. 428-407.000.
Sekiguchi, Yoshishige; and Kubota, Tomiyasu, 4,703,492, Cl. 373-91.000.
Shirai, Tsuneo; and Suzuki, Koji, 4,645,583, Cl. 204-435.000.
Tanaka, Jun; and Nakayasu, Kazuo, 4,672,127, Cl. 548-308.000.
Watanabe, Yoji; Morimura, Toshio; and Toyoda, Yukio, 4,692,313, Cl. 422-241.000.
Showa Electric Wire & Cable Co., Ltd.: *See—*
Kowata, Nobuo; and Sasano, Naoshige, 4,682,849, Cl. 350-96.22.
Saitoh, Michihiro; Gogami, Takatoshi; and Osada, Toshiyuki, 4,692,799, Cl. 358-106.000.
Yokoyama, Takeo, 4,684,906, Cl. 333-143.000.
Showa Highpolymer Co. Ltd.: *See—*
Hanyuda, Toshiaki, 4,640,937, Cl. 522-31.000.
Showa Precision Machinery Co., Ltd.: *See—*
Tanaka, Masami, 4,694,791, Cl. 123-179.00F.
Showa Sangyo Co., Ltd.: *See—*
Ogawa, Hiroshi; and Kanno, Tomoei, 4,668,813, Cl. 558-147.000.
Showa Shell Sekiyu Kabushiki Kaisha: *See—*
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Suter, Frank L.; and Showalter, Donald R., 4,660,399, Cl. 72-181.000.
Showalter, H.D. Hollis: *See—*
Beylin, Vladimir G.; Goel, Om P.; and Showalter, H.D. Hollis, 4,672,129, Cl. 548-357.000.
Showalter, Merle R., to Automotive Engine Associates. Engine bearings. 4,668,107, 5-26-87, Cl. 384-114.000.
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Gardner, John F.; and Showalter, Thomas W., 4,715,400, Cl. 137-341.000.
Showdata, Inc.: *See—*
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Showell, Anthony D.: *See—*
Dove, John; and Showell, Anthony D., 4,686,970, Cl. 128-92.0YM.
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Showman, Gerald. Pressure regulating device. 4,655,185, 4-7-87, Cl. 123-459.000.
Shows, Jess W., Jr.; and Hayatdavoudi, Asadollah, to Premiere Casing Services, Inc. Layered pipe slips. 4,715,625, 12-29-87, Cl. 285-145.000.
Showscan Film Corporation: *See—*
Fox, Charles, 4,697,896, Cl. 352-180.000.
Trumbull, Douglas, 4,645,318, Cl. 352-69.000.
Shoyab, Mohammed; Marquardt, Hans; and Todaro, George J., to Oncogen. Polypeptide tumor inhibitors and antibodies thereto. 4,714,683, 12-22-87, Cl. 436-547.000.
Shoyo Engineering Company Limited: *See—*
Fukuda, Kazuichi, 4,639,237, Cl. 464-65.000.
Shrader, Eric J.: *See—*
Andeen, Gerry B.; Shrader, Eric J.; and Kornbluh, Roy D., 4,637,736, Cl. 374-45.000.
Shreve, David S.: *See—*
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Shreve, Gary A.: *See—*
Henderson, Richard S.; Shreve, Gary A.; and Tenhover, Michael A., 4,701,226, Cl. 148-403.000.

Shreve, John R.; and Kearney, Mark B., to General Motors Corporation. Electrical system utilizing a concentric collector PNP transistor. 4,684,877, 8-4-87, Cl. 323-269.000.

Shrier, Robert L.: *See—*
Roberts, Lyn M.; Shrier, Robert L.; and Laxton, Raymond, 4,642,685, Cl. 358-84.000.

Shrime, George, to Contitronix Inc. Typewriter daisy wheel. 4,714,362, 12-22-87, Cl. 400-144.200.

Shrinkle, Louis J., to Storage Technology Corporation. Method and apparatus for qualifying valid data peaks in a read/write channel. 4,634,896, 1-6-87, Cl. 307-351.000.

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Rosenthale, Marvin E.; Shriver, David A.; and Katz, Laurence B., 4,707,495, Cl. 514-530.000.

Shriver, Frank L., to Adolph Coors Company. Bottle drying apparatus. 4,683,009, 7-28-87, Cl. 134-30.000.

Shrock, Fred J.; and Hall, Rex D. Convertible seat-bed. 4,654,902, 4-7-87, Cl. 5-37.00R.

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Shroot, Braham; Eustache, Jacques; and Bouclier, Martine, to Groupement d'Interet Economique dit: Centre International de Recherces Dermatologiques C.I.R.D. Pharmaceutical uses of substituted 6(5,6,7,8)tetrahydro-5,5,8,8-tetramethyl-2-naphthyl)-2-naphthoic acid and its esters. 4,666,941, 5-19-87, Cl. 514-569.000.

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Shroyer, Louis R. Multi-axle wheel locking bar. 4,688,408, 8-25-87, Cl. 70-226.000.

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Shrull, Dale; and Hendricks, Joe W. Single pass fracture planting system. 4,677,922, 7-7-87, Cl. 111-52.000.

Shrum, William M., Jr. Multi-stage hydraulic drive system. 4,683,988, 8-4-87, Cl. 187-9.00E.

SHS Research Labs, Inc.: *See—*
Shellenberger, Richard H., 4,672,355, Cl. 338-176.000.

Shteinberg, Alexandr N.: *See—*
Lidorenko, Nikolai S.; Gorun, Viktor T.; Muchnik, Grigory F.; Karichev, Zia R.; Shteinberg, Alexandr N.; Lev, Mikhail B.; Moiseev, Viktor I.; Schegolev, Igor S.; Ilin, Vladimir M.; and Smirnov, Igor I., 4,666,668, Cl. 422-48.000.

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Shtipelman, Manya; and Shtipelman, Boris A., 4,673,197, Cl. 283-34.000.

Shtipelman, Manya; and Shtipelman, Boris A. Map display apparatus and method. 4,673,197, 6-16-87, Cl. 283-34.000.

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Gounder, Raj N.; Shu, Chi-Fan; and Jacobs, Brian D., 4,635,071, Cl. 343-897.000.

Shu, Jing S.; Covington, Johnny B.; Lee, Wei; Venable, Larry G.; and Varnell, Gilbert L., to Texas Instruments Incorporated. Plasma developable negative resist compositions for electron beam, X-ray and optical lithography. 4,657,844, 4-14-87, Cl. 430-325.000.

Shu, Larry S., to W. R. Grace & Co. Fireproofed metal structural members and method of fabricating same. 4,699,822, 10-13-87, Cl. 428-198.000.

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Shu, Lee-Lean; Kao, Chao-Ven; and Shyu, Tai C., to Advanced Micro Devices, Inc. CMOS N-well bias generator and gating system. 4,670,861, 6-2-87, Cl. 365-181.000.

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Shu, Ming-tsai; Thomas, William R., Jr.; and Wehner, Ann M., to Du Pont de Nemours, E. I., and Company. Setting/drying process for flexible web coating. 4,698,914, 10-13-87, Cl. 34-10.000.

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Shu, Paul; and Wszolek, Marie, to Mobile Oil Corporation. Zirconium crosslinked gel compositions, methods of preparation and application in enhanced oil recovery. 4,676,930, 6-30-87, Cl. 252-315.300.

Shu, Paul, to Mobil Oil Corporation. Polymer and method for permeability profile control under severe reservoir conditions. 4,678,032, 7-7-87, Cl. 166-295.000.

Shu, Stephen K., to Del Mar Avionics. Low power treadmill. 4,635,927, 1-13-87, Cl. 272-96.000.

Shu-Ti Lee, Peter; Majkowski, Richard F.; and Partin, Dale L., to General Motors Corporation. Method and apparatus for measuring stable isotopes. 4,684,805, 8-4-87, Cl. 250-343.000.

Shu, Timor: *See—*
Hinzmann, Alfred; Preisner, Peter; Presser, Erich; and Shu, Timor, 4,681,124, Cl. 131-109.100.

Shu, Winston R.: *See—*
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Shubaly, Murray R., to Atomic Energy of Canada Limited. Method and apparatus for generating ion beams. 4,714,834, 12-22-87, Cl. 250-427.000.

Shube, Eugene E.: *See—*
Barba, Valentin G.; and Shube, Eugene E., 4,683,407, Cl. 318-689.000.

Shubert, Gary C., to Metallurgical Industries, Inc. Welding apparatus method for depositing wear surfacing material and a substrate having a weld bead thereon. 4,689,463, 8-25-87, Cl. 219-76.160.

Shubert, Wesley M.: *See—*
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Shuch, Howard P. Binaural doppler collision alert system for general aviation aircraft. 4,713,669, 12-15-87, Cl. 342-455.000.

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Shudo, Koichi. Porphyrin derivatives. 4,658,023, 4-14-87, Cl. 540-145.000.

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Shue, Ho-Jane: *See—*
Blythin, David J.; and Shue, Ho-Jane, 4,684,727, Cl. 544-127.000.

Shue, Robert S.: *See—*
Leland, John E.; Dix, James S.; and Shue, Robert S., 4,659,761, Cl. 524-262.000.

Shue, Roger C.: *See—*
Blair, John J.; and Shue, Roger C., 4,650,418, Cl. 433-203.100.

Shuey, John R., to AMP Incorporated. Dual slot electrical contact and method of making same. 4,687,264, 8-18-87, Cl. 439-92.000.

Shuey, John R.: *See—*
Denlinger, Keith R.; and Shuey, John R., 4,676,575, Cl. 439-271.000.
Hayes, Earl J.; Cooper, Ralph M.; Denlinger, Keith R.; and Shuey, John R., 4,697,864, Cl. 439-444.000.
Long, William B.; Over, Gary L.; Shaffer, Howard R.; and Shuey, John R., 4,684,192, Cl. 439-374.000.

Shuey, Kenneth C., to Westinghouse Electric Corp. Current limiter for power line communication amplifier. 4,645,956, 2-24-87, Cl. 307-562.000.

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Shuey, Kenneth C., to Westinghouse Electric Corp. Switch bypass circuit for power line communication systems. 4,686,382, 8-11-87, Cl. 307-149.000.

Shufflebarger, Earl D.: *See—*
Kolenc, Terrence J.; Bork, Carl R., Jr.; Steiss, William C.; Shufflebarger, Earl D.; and Tobbe, William P., 4,684,106, Cl. 251-335.200.

Shugarman, Arnold L., to Union Oil Company of California. Lead removal method. 4,704,260, 11-3-87, Cl. 423-92.000.

Shugarman, Arnold L.: *See—*
Wong, Morton M.; and Shugarman, Arnold L., 4,710,367, Cl. 423-335.000.

Shuhei, Uotani: *See—*
Miyai, Kiyoshi; Shuhei, Uotani; Tsunemine, Toyohiko; Kamitani, Yutaka; and Nakanishi, Yuji, 4,666,281, Cl. 355-3.0SH.

Shuji, Fujieda: *See—*
Kazuyuki, Ishii; Yoshio, Ebe; and Shuji, Fujieda, 4,643,470, Cl. 292-216.000.

Shukla, Dipak P.; Sinclair, Keith; and Smith, Kevin A., to Tate & Lyle Public Limited Company. Sugar process. 4,640,717, 2-3-87, Cl. 127-58.000.

Shukla, Kailash C.: *See—*
Hurley, James R.; Panora, Robert A.; Searight, Edward F.; and Shukla, Kailash C., 4,668,390, Cl. 210-167.000.

Shukuri, Shoji; Tamura, Masao; Wada, Yasuo; and Fujisaki, Yoshihisa, to Hitachi, Ltd. Method of implanting spatially controlled P-N junctions by focused ion beams containing at least two species. 4,716,127, 12-29-87, Cl. 437-27.000.

Shulan, John L.: *See—*
Rolle, Thomas E.; Nebel, David J.; Shulan, John L.; and Liljestrom, William P., 4,648,560, Cl. 241-24.000.

Shulcon Industries, Inc.: *See—*
Shull, James J., 4,701,445, Cl. 514-57.000.

Shulenberger, Art M.: *See—*
Chadwick, Curt H.; Shulenberger, Art M.; Taylor, John S.; and Simmons, Richard R., 4,639,587, Cl. 250-201.000.

Shulenberger, Arthur M.; and Piatt, John A., to SCSS Instruments, Inc. Pellicle mounting apparatus. 4,637,713, 1-20-87, Cl. 355-76.000.

Shuler, Jerry N. Bicycle rear suspension system. 4,679,811, 7-14-87, Cl. 280-284.000.

Shuler, Steven L. Collapsible carry bag with four discrete rigid end pieces. 4,693,344, 9-15-87, Cl. 190-107.000.

Shulgin, Alexander T.: *See—*
Sargent, Thornton W., III; Shulgin, Alexander T.; and Mathis, Chester A., 4,647,446, Cl. 424-1.100.

Shulik, Larry J.: *See—*
Osman, Robert M.; and Shulik, Larry J., 4,637,918, Cl. 422-148.000.

Shull, James J., to Shulcon Industries, Inc. Easily dispersible agglomerated hygroscopic compositions. 4,701,445, 10-20-87, Cl. 514-57.000.

Shulman, Burt H., to Westinghouse Electric Corp. Orbiting nozzle dispersion apparatus. 4,659,018, 4-21-87, Cl. 239-264.000.

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Shulman, Garson P.; and Fung, Chris C. L., to RMB Products. Polyimide foams and methods of making same. 4,647,597, 3-3-87, Cl. 521-185.000.

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Shulman, Joseph: *See—*
Raphael, Thomas; and Shulman, Joseph, 4,653,775, Cl. 283-108.000

Shulman, Mark L.: *See—*
Chang, Yi-Hua E.; Gruodis, Algirdas J.; Muhlfeld, Hans P., Jr.; Rodriguez, Charles W.; and Shulman, Mark L., 4,639,919, Cl. 371-27.000.

Shulman, Seth D., to Bioscan, Inc. Solid state counting system for high energy beta and gamma decay isotopes. 4,682,035, 7-21-87, Cl. 250-370.000.

Shulof, George F.; and DiMonte, Michael J., to Combustion Engineering, Inc. Pulverized solid control system. 4,714,202, 12-22-87, Cl. 241-20.000.

Shulski, Michael M.: *See—*
Traczyk, Edward S.; and Shulski, Michael M., 4,693,108, Cl. 72-370.000.

Shultes, Benjamin, III: *See—*
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Shultz, Clifford G., to Detox International Corporation. Destruction of nerve gases and other cholinesterase inhibitors by molten metal reduction. 4,666,696, 5-19-87, Cl. 423-659.000.

Shultz, Clifford G., to Detox International Corporation. Destruction of inorganic hazardous wastes. 4,695,447, 9-22-87, Cl. 423-659.000.

Shulver, Roderick L.; Misselbrook, John; and Standen, Robert, to Nowsco Well Service (U.K.) Limited. Screw thread protection. 4,692,988, 9-15-87, Cl. 29-458.000.

Shulver, William, to Carol Cable Company. Ignition cable. 4,677,418, 6-30-87, Cl. 338-214.000.

Shulze, John E.: *See—*
Ricciardelli, Robert H.; and Shulze, John E., 4,644,957, Cl. 128-642.000.

Shum, Shu. Solar powered automobile cooling system. 4,658,597, 4-21-87, Cl. 62-235.100.

Shum, Wilfred P.; and Cooper, Charles F., to Atlantic Richfield Company. Production of molybdenum dioxo dialkyleneglycolate compositions for epoxidation of olefins. 4,687,868, 8-18-87, Cl. 556-57.000.

Shumaker, Fred E.: *See—*
Key, Joe W.; and Shumaker, Fred E., 4,698,038, Cl. 441-5.000.
Key, Joe W.; and Shumaker, Fred E., 4,701,143, Cl. 441-5.000.

Shumaker, Harold L.: *See—*
Link, Charles T.; Gray, Bennie M.; and Shumaker, Harold L., 4,696,223, Cl. 92-86.500.

Shumaker, John F.: *See—*
Maurer, Herman J.; and Shumaker, John F., 4,643,631, Cl. 414-723.000.

Shuman, Bernard E., to EEE Corporation. Magnetically secured display apparatus. 4,677,780, 7-7-87, Cl. 40-600.000.

Shuman, David C.: *See—*
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Shuman, Guy L.: *See—*
Donatello, Mike A.; Moritz, Scott N.; and Shuman, Guy L., 4,699,318, Cl. 239-33.000.

Shuman, Marc A.: *See—*
Morser, Michael J.; and Shuman, Marc A., 4,663,146, Cl. 424-1.100.

Shuman, Ralph J.; and Burns, Barbara, to Dennison Manufacturing Company. Readhering and removable adhesive. 4,644,026, 2-17-87, Cl. 524-270.000.

Shuman, Ralph J.; and Burns, Barbara, to Dennison Manufacturing Co. Readhering adhesive. 4,657,960, 4-14-87, Cl. 524-270.000.

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Shumate, Charles H., to B. F. Goodrich Company, The. Extended pitch display for attitude gyro indicator. 4,663,968, 5-12-87, Cl. 73-178.00R.

Shumila, Michael J.: *See—*
Perlman, Stuart S.; Eisenhandler, Sanford; Lyons, Paul W.; and Shumila, Michael J., 4,682,230, Cl. 358-167.000.

Shumway, Jerry L., to Denro Laboratories, Inc. Multi-line accumulator/multiplexer. 4,646,288, 2-24-87, Cl. 370-62.000.

Shung, Wu-Shi: *See—*
Hwang, Eddie Y.; and Shung, Wu-Shi, 4,635,209, Cl. 364-494.000.

Shupert, Kristine A.: *See—*
Bull, Rebecca L.; and Shupert, Kristine A., 4,710,979, Cl. 2-48.000.

Shur, Don. Hydraulic righting motorcycle kickstand. 4,637,624, 1-20-87, Cl. 280-298.000.

Shur-lok International S.A.: *See—*
Dessouroux, Alexis A. J., 4,692,078, Cl. 411-231.000.

Shur, Michael S.: *See—*
Baier, Steven M.; Cirillo, Nicholas C., Jr.; Hanka, Steven A.; and Shur, Michael S., 4,638,341, Cl. 357-15.000.

Shurboff, John: *See—*
Freyman, Bruce J.; Dorinski, Dale; and Shurboff, John, 4,700,276, Cl. 361-403.000.
Freyman, Bruce J.; Dorinski, Dale; and Shurboff, John, 4,700,473, Cl. 29-846.000.

Shure Brothers, Inc.: *See—*
Julstrom, Stephen D., 4,658,425, Cl. 381-81.000.
Julstrom, Stephen D., 4,696,036, Cl. 381-22.000.
Julstrom, Stephen D., 4,712,231, Cl. 379-202.000.

Shure Manufacturing Corporation: *See—*
Richardson, Daniel E., 4,640,200, Cl. 109-19.000.

Shuren, Thomas E.: *See—*
Linker, Frank V.; and Shuren, Thomas E., 4,704,700, Cl. 364-550.000.
Linker, Frank V., Jr.; and Shuren, Thomas E., 4,686,637, Cl. 364-550.000.

Shurgan, Joel, to Duro-Test Corporation. Gas discharge lamp starter 4,649,319, 3-10-87, Cl. 315-99.000.

Shurman, Louis W.; and Bryant, Lynn A., to Firestone Tire & Rubber Company, The. Apparatus for introducing appliques to the sidewall of a tire. 4,684,431, 8-4-87, Cl. 156-394.100.

Shurman, Louis W.; and Bryant, Lynn A., to Firestone Tire & Rubber Company, The. Curb scuff protection for tire sidewall. 4,699,193, 10-13-87, Cl. 152-523.000.

Shurtleff, Jill M.; and Lee, Alejandro C., to Gillette Company, The Safety razor system. 4,709,476, 12-1-87, Cl. 30-41.000.

Shurtz, Richard R., II; and Sharp, Edward J., to United States of America, Army. Birefringent artificial dielectric structures 4,712,881, 12-15-87, Cl. 350-406.000.

Shushereba, John J.: *See—*
Millham, Ernest H.; Moser, John J.; Shushereba, John J.; and Visco, Gary P., 4,696,005, Cl. 371-27.000.

Shuskus, Alexander J., to United Technologies Corporation. Passivation of gallium arsenide by nitrogen implantation. 4,706,377, 11-17-87, Cl. 437-24.000.

Shust, Ryan E.; and MacCourt, Fergus J., to Versatile Corporation. Two speed power take-off. 4,685,340, 8-11-87, Cl. 74-11.000.

Shustack, Leonard T. Karate exercising bag. 4,635,929, 1-13-87, Cl. 272-76.000.

Shuster, Frank A.: *See—*
Armstrong, Timothy G.; Kroll, Arthur S.; and Shuster, Frank A., 4,647,186, Cl. 355-15.000.

Shuster, Louis: *See—*
Dodman, Nicholas H.; and Shuster, Louis, 4,692,451, Cl. 514-282.000.

Shuster, Nicholas; and Pallat, Jerome F., to Gould Inc. Electrochemical cell and method. 4,675,254, 6-23-87, Cl. 429-51.000.

Shute, Alan B.; Suchovsky, Carl W.; and Bazzo, Richard J. Power gas burner for wood stove. 4,655,705, 4-7-87, Cl. 431-78.000.

Shute, Jonathan F.; and Rosenhouse, Harvey, to FMC Corporation. Heat recovery in the manufacture of phosphorus acids. 4,713,229, 12-15-87, Cl. 423-317.000.

Shuter, Timothy C.: *See—*
Hayes, Raymond M.; Kirkpatrick, Thomas L.; Lauletta, John L.; Shuter, Timothy C.; and Vollkommer, Harry T., Jr., 4,667,152, Cl. 324-77.00R.

Shuto, Hirotetsu: *See—*
Ueda, Kouzou; Nagumo, Daisuke; Shuto, Hirotetsu; and Kuriyama, Hiroaki, 4,682,686, Cl. 198-844.000.

Shuto, Katsuichi: *See—*
Teranishi, Masayuki; Suzuki, Koji; Kase, Hiroshi; Kitamura, Shigeto; Shuto, Katsuichi; and Omori, Kenji, 4,657,916, Cl. 514-312.000.
Teranishi, Masayuki; Takahashi, Mitsuru; Nomoto, Hisayo; Kase, Hiroshi; Shuto, Katsuichi; Kubo, Kazuhiro; and Karasawa, Akira, 4,677,125, Cl. 514-7.000.
Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masa; Shirahata, Kunikatsu; Deguchi, Takashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, 4,683,220, Cl. 514-7.000.

Shuto, Sadanobu; Ukai, Toshinao; and Aida, Shunichi, to Fuji Photo Film Co., Ltd. Silver halide photographic materials containing tabular silver halide grains and a specified sensitizing dye. 4,675,279, 6-23-87, Cl. 430-567.000.

Shutske, Gregory M., to Hoechst-Roussel Pharmaceuticals Inc. 1,2-benzisoxazoloxyethylamines and intermediates for the preparation thereof. 4,644,064, 2-17-87, Cl. 548-241.000.
Shutske, Gregory M., to Hoechst-Roussel Pharmaceuticals Inc. 1-Hpyrazolo[3,4-b]pyridines. 4,658,029, 4-14-87, Cl. 546-119.000.
Shutske, Gregory M., to Hoechst Roussel Pharmaceuticals Inc. 1,2,3,4,-,9b-hexahydro-4a-aminoalkyldibenzofurans useful as analgesics, anticonvulsants or antidepressants. 4,668,690, 5-26-87, Cl. 514-320.000.
Shutske, Gregory M.; Setescak, Linda L.; and Allen, Richard C., to Hoechst-Roussel Pharmaceuticals, Inc. 1,2-benzisoxazoloxyacetic acids and related compounds. 4,673,746, 6-16-87, Cl. 546-272.000.
Shutske, Gregory M.; and Pierrat, Frank A., to Hoechst-Roussel Pharmaceuticals Inc. 9-amino-1,2,3,4-tetrahydroacridin-1-ol and related compounds. 4,695,573, 9-22-87, Cl. 514-290.000.
Shutt, Sidney G. Hydrofoil apparatus. 4,711,195, 12-8-87, Cl. 114-274.000.
Shutter, Terry L.: *See*—
Porta, Gary D.; and Shutter, Terry L., 4,699,445, Cl. 439-698.000.
Shutterly, Harold B., to Westinghouse Electric Corp. Multi-star fiber optic network. 4,641,371, 2-3-87, Cl. 455-601.000.
Shutterly, Harold B., to Westinghouse Electric Corp. T-connection fiber-optic repeater. 4,641,373, 2-3-87, Cl. 455-601.000.
Shutterly, Harold B., to Westinghouse Electric Corp. Multi-star fiber optic network with improved access time. 4,654,889, 3-31-87, Cl. 455-601.000.
Shutterly, Harold B., to Westinghouse Electric Corp. Fiber optic network with reduced coupling losses. 4,662,715, 5-5-87, Cl. 350-96.160.
Shutterly, Harold B.; and Malmgowski, Joseph S., to Westinghouse Electric Corp. High-reliability fiber optic repeater. 4,688,260, 8-18-87, Cl. 455-601.000.
Shuttler, Philippe: *See*—
Boccadoro, Yves; and Shuttler, Philippe, 4,697,562, Cl. 123-339.000.
Shuttleworth, George L.: *See*—
Morby, John A.; Sabatella, Robert J.; and Shuttleworth, George L., 4,667,269, Cl. 361-355.000.
M'Sadoques, Andre J.; Rich, Joseph F.; and Shuttleworth, George L., 4,646,200, Cl. 361-355.000.
Rich, Joseph F.; Sabatella, Robert J.; and Shuttleworth, George L., 4,646,198, Cl. 361-346.000.
Shuzui, Yoshikiyo: *See*—
Fukuhara, Kazuyuki; and Shuzui, Yoshikiyo, 4,653,440, Cl. 123-52.0MB.
Shvartsman, Vladimir A., to Electronic Design & Research, Inc. Parallel input signal processor for low-level signal, high-noise environments. 4,692,709, 9-8-87, Cl. 328-108.000.
Shvartsman, Vladimir A., to Electronic Design & Research, Inc. Fundamental and harmonic pulse-width discriminator. 4,692,710, 9-8-87, Cl. 328-111.000.
Shvo, Youval: *See*—
Laine, Richard M.; and Shvo, Youval, 4,645,837, Cl. 544-402.000.
SHW Schwabische Huttenwerke GmbH: *See*—
Andra, Wolfhart; Bayer, Karl; Beyer, Erwin; and Andra, Hans-Peter, 4,687,182, Cl. 254-93.00R.
Shwarzman, Joel: *See*—
Movshovitz, Avner; and Shwarzman, Joel, 4,635,395, Cl. 49-78.000.
Shwez, Mark. Agricultural implement for disposal of crop residue. 4,690,224, 9-1-87, Cl. 172-45.000.
Shyam, Krishnamurthy: *See*—
Sartorelli, Alan C.; and Shyam, Krishnamurthy, 4,684,747, Cl. 564-081.000.
Shyang, Yang C. Multipurpose polisher. 4,694,614, 9-22-87, Cl. 51-141.000.
Shymon, Stephen: *See*—
Niles, Hollandra P.; Herles, Susan; Shymon, Stephen; and Gaffar, Abdul, 4,689,214, Cl. 424-49.000.
Shyoji, Kazuo: *See*—
Zanma, Jun; Nishimura, Yoshinori, Shyoji, Kazuo; Shimagaki, Makoto; and Nakajima, Yoichi, 4,714,592, Cl. 422-192.000.
Shyr, Ann W.: *See*—
Tsang, Wen-Ghih; and Shyr, Ann W., 4,663,286, Cl. 435-178.000.
Shyr, Yen-Shin; Bobsein, Rex L.; and Johnson, Marvin M., to Phillips Petroleum Company. Hydrogenation process. 4,656,230, 4-7-87, Cl. 525-338.000.
Shyr, Yen-Shin; and Johnson, Marvin M., to Phillips Petroleum Company. Process for preparing silica-alumina. 4,711,868, 12-8-87, Cl. 502-235.000.
Shyu, Don. Plug for a car antenna. 4,666,232, 5-19-87, Cl. 339-177.00R.
Shyu, Jang M. Leather product edging machine. 4,703,634, 11-3-87, Cl. 69-7.700.
Shyu, Jia-Ming, to Industrial Technology Research Institute. Automatic treadmill. 4,708,337, 11-24-87, Cl. 272-69.000.
Shyu, Jieh-Hwa, to OMI International Corporation. Electrolytic apparatus and process. 4,687,554, 8-18-87, Cl. 204-23.000.
Shyu, Shiow-Feng. Camera means for regulating the exposure area of a frame of film. 4,716,427, 12-29-87, Cl. 354-159.000.
Shyu, Tai C.: *See*—
Shu, Lee-Lean; Shyu, Tai C.; and Chuang, Patrick T., 4,634,894, Cl. 307-297.000.
Shu, Lee-Lean; Kao, Chao-Ven; and Shyu, Tai C., 4,670,861, Cl. 365-181.000.
Shyu, Tai-Ching: *See*—
Shu, Lee-Lean; and Shyu, Tai-Ching, 4,694,205, Cl. 307-530.000.
Shyu, Wen B.; Woodhead, David A.; and Quigley, Vincent P., to Standard Oil Company, The. Method of forming a nonaqueous stable emulsion of rubber in polymerizable monomer, and the polymerization process and thermoplastic copolymer produced thereby. 4,698,389, 10-6-87, Cl. 525-96.000.
Shyu, William M.: *See*—
Dischert, Robert A.; Topper, Robert J.; and Shyu, William M., 4,673,978, Cl. 358-140.000.
SI Handling Systems, Inc.: *See*—
Hajcak, John T., Jr., 4,664,036, Cl. 104-172.200.
Rohrbach, Peter; and Benzak, William, 4,691,641, Cl. 104-166.000.
Thatcher, James L.; and Lindquis:, Per E., 4,646,649, Cl. 104-166.000.
Si, Stephen S.: *See*—
Lee, Hsiao-Peng S.; Rawlinson, Stephen J.; and Si, Stephen S., 4,685,058, Cl. 364-200.000.
Si, Stephen S. C.: *See*—
Lee, Hsiao-Peng S.; Rawlinson, Stephen J.; and Si, Stephen S. C., 4,707,783, Cl. 364-200.000.
Siac Industria Accessori Cavaria S.p.A.: *See*—
Vaglini, Franco, 4,691,437, Cl. 29-753.000.
Siadat, Bahram; and Morgan, Charles R., to W. R. Grace & Co. Heat activatable adhesive or sealant compositions. 4,710,539, 12-1-87, Cl. 525-59.000.
Siano, Donald B.; and Bock, Jan, to Exxon Research and Engineering Company. High molecular weight terpolymers of acrylamide, acrylic acid salts and alkylacrylamide. 4,673,716, 6-16-87, Cl. 525-367.000.
Siano, Donald B.; and Bock, Jan, to Exxon Research and Engineering Company. High molecular weight terpolymers of acrylamide, acrylic acid salts and alkylacrylamide. 4,694,058, 9-15-87, Cl. 526-307.200.
Siano, Donald B.: *See*—
Bock, Jan; Siano, Donald B.; and Turner, S. Richard, 4,694,046, Cl. 525-329.400.
Eusiace, Daniel J.; Siano, Donald B.; Drake, Evelyn N.; and Calcavecchio, Peter, 4,683,953, Cl. 166-294.000.
Siarkiewicz, Piotr H.: *See*—
Zacharski, Bogdan W.; and Siarkiewicz, Piotr H., 4,665,499, Cl. 364-575.000.
Sias, Ralph M.; Hurley, Nancy J.; and Dalebout, Melvin W., to Baxter Travenol Laboratories, Inc. Body support pad. 4,673,605, 6-16-87, Cl. 428-120.000.
Sibalis, Dan, to Drug Delivery Systems Inc. Transdermal drug applicator and electrodes therefor. 4,640,689, 2-3-87, Cl. 604-20.000.
Sibalis, Dan. Energy supplemented electrical fuse. 4,677,412, 6-30-87, Cl. 337-401.000.
Sibalis, Dan, to Drug Delivery Systems Inc. Transdermal drug applicator. 4,708,716, 11-24-87, Cl. 604-20.000.
Sibalis, Dan, to Drug Delivery Systems Inc. Applicator for non-invasive transcutaneous delivery of medicament. 4,713,050, 12-15-87, Cl. 604-20.000.
Sibata, Suegi, to Yamaichi Electric Mfg. Co., Ltd. IC package connector with contacts of high density. 4,690,646, 9-1-87, Cl. 439-71.000.
Sibata, Takuo: *See*—
Kawano, Ken; Sibata, Takuo; and Kouketu, Kouti, 4,644,815, Cl. 74-467.000.
Kuroiwa, Yosio; and Sibata, Takuo, 4,701,085, Cl. 409-244.000.
Shirai, Hisao; Sibata, Takuo; and Izuo, Takashi, 4,647,008, Cl. 251-129.070.
Takeshita, Hajime; Iwase, Takahiro; Masuda, Naofumi; Sibata, Takuo; Mochizuki, Hiroyuki; Kobayashi, Nobuo; Kawakami, Seiho; and Kuroiwa, Yosio, 4,693,813, Cl. 409-244.000.
Sibbald, Alastair. Semiconductor devices. 4,657,658, 4-14-87, Cl. 204-406.000.
Sibbel, Uwe. Watering system. 4,685,827, 8-11-87, Cl. 405-37.000.
Sibbett, Wilson: *See*—
Margulis, Walter; Sibbett, Wilson; and Sleat, William E., 4,693,599, Cl. 356-121.000.
Sibertin-Blanc, Jean-Baptiste; and Tellier, Yves, to Ecole Nationale Superieure de Creation Industrielle. Automatic tripping rescue system. 4,694,931, 9-22-87, Cl. 182-3.000.
Sibeud, Jean P.; and Ellenberger, Gerard, to Renault Vehicules Industriels. Fluid actuation device with compensation for wear. 4,653,272, 3-31-87, Cl. 60-586.000.
Sibeud, Jean-Paul. Circuit diagnosis and control device. 4,694,372, 9-15-87, Cl. 361-86.000.
Sibig:roth, James M., to Motorola, Inc. Microcomputer having an internal address mapper. 4,649,476, 3-10-87, Cl. 364-200.000.
Sibilia, John P.; Kothiar, Abraham M.; Murthy, Narasimhaiah S.; and Sacks, William, to Allied Corporation. Annealed thin walled polymer articles and method to anneal. 4,696,857, 9-29-87, Cl. 428-323.000.
Sibille, Soline: *See*—
Perichon, Jacques; Rabemanantsoa, Amelie; Sibille, Soline; and D'Incan, Esther, 4,637,863, Cl. 204-59.00R.
Sibilo, Gerard: *See*—
Bard, Max; Sibilo, Gerard; Marello, Georges; Viale, Daniel; and Louis, Michel, 4,641,985, Cl. 403-16.000.
Sibley, H. C., Jr. International commodity trade exchange. 4,677,552, 6-30-87, Cl. 364-408.000.
Sibley, Howard W.; and Shaffer, Karl, to Carrier Corporation. Apparatus and method for infrared optical electronic qualitative analysis of a fluid independent of the temperature thereof. 4,649,711, 3-17-87, Cl. 62-129.000.
Sibley, Howard W.: *See*—
Schoch, Stephen A.; and Sibley, Howard W., 4,639,594, Cl. 250-227.000.

Sibley, Lincoln L., Jr.: *See—*
Pettinga, Robert; Dix, Joseph; McHugh, Thomas O.; Sibley, Lincoln L., Jr.; Ziemba, Richard T.; and Forrester, Victor J., 4,700,608, Cl. 89-11.000.

Sibovits, Jacob; and Jenkins, I. Phillip, to Allied Corporation. High speed flyback circuit for magnetic yoke. 4,677,352, 6-30-87, Cl. 315-408.000.

SIC AG: *See—*
Harlegard, Jan, 4,670,061, Cl. 134-18.000.

SICAME Societe Industrielle de Construction d'Appareils et de Materiel Electriques: *See—*
Prodel, Michel H. M. F., 4,643,512, Cl. 339-248.00R.

Sicard, Claude; Kroczynski, Patrice; Gallard, Herve; Mars, Denis; and Devos, Michel, to Institut de Recherches de la Construction Navale. Automated installation for processing large objects. 4,697,239, 9-29-87, Cl. 364-468.000.

Sicard, Stephen T.; Pedro, Brian A.; and Alden, Wayne S., III, to Pylon Company, Inc. Test probe for leadless devices. 4,705,333, 11-10-87, Cl. 439-71.000.

Sicard, Stephen T.: *See—*
Cooney, James S.; and Sicard, Stephen T., 4,636,026, Cl. 339-255.00R.
Cooney, James S.; and Sicard, Stephen T., 4,660,922, Cl. 339-278.00T.

Siccardi, Alberto: *See—*
Baldini, Luciano; and Siccardi, Alberto, 4,656,813, Cl. 53-410.000.
Baldini, Luciano; and Siccardi, Alberto, 4,685,917, Cl. 604-411.000.

Sichel, Enid K.: *See—*
Rubner, Michael; and Sichel, Enid K., 4,708,019, Cl. 73-760.000.

Sicher, John D., to Unimax Switch Corporation. Electrical security device. 4,647,735, 3-3-87, Cl. 200-43.080.

Sichler, Wolfgang. Connector fitting with an electrical heating wire. 4,649,641, 3-17-87, Cl. 29-611.000.

Siciliano, Anthony. Article of wearing apparel suitable for controlling body perspiration. 4,675,915, 6-30-87, Cl. 2-181.000.

Sicinski, Rafal R.: *See—*
DeLuca, Hector F.; Schnoes, Heinrich K.; Sicinski, Rafal R.; and Tanaka, Yoko, 4,689,180, Cl. 260-397.200.

Sick, Erwin, to Erwin Sick GmbH Optik-Elektronik. Retroreflector. 4,660,929, 4-28-87, Cl. 350-104.000.

Sick, Erwin, to Erwin Sick GmbH Optik-Elektronik. Optical fault seeking apparatus. 4,671,663, 6-9-87, Cl. 356-430.000.

Sick, Erwin, to Erwin Sick GmbH Optik-Elektronik. Optoelectronic comparison apparatus for structures on plane surfaces or for planar structures. 4,681,453, 7-21-87, Cl. 356-394.000.

Sick, Georg; Stenzel, Otto; Kohnert, Heinz; and Kemmer, Hans-Johann, to Leybold-Heraeus GmbH. Induction furnace with a furnace bottom and a lid. 4,658,404, 4-14-87, Cl. 373-143.000.

Sicka, Richard W.; and Tompkins, Dale A., to Firestone Tire & Rubber Company, The. Coextrusion method. 4,657,718, 4-14-87, Cl. 264-146.000.

Sickels, Mark A., to Arvin Industries, Inc. Manifold exhaust processor. 4,663,934, 5-12-87, Cl. 60-302.000.

Sickert, Armin: *See—*
Schafer, Walter; Muller, Hanns P.; Kuchenmeister, Rolf; and Sickert, Armin, 4,707,386, Cl. 427-386.000.

Sicomant AB Juteskarsgatan 38: *See—*
Bjorck, Conny; and Sigurdsson, Per A., 4,697,743, Cl. 241-5.000.

Sicor Societa Italiana Corticosteroidi S.p.A.: *See—*
Macdonald, Peter, 4,695,625, Cl. 540-63.000.

Sicowa Verfahrenstechnik: *See—*
Koslowski, Thomas, 4,670,055, Cl. 106-104.000.

Sicpa Holding SA: *See—*
Mehl, Wolfgang; and Amon, Albert, 4,664,670, Cl. 8-470.000.

Sicpa Holding S.A.: *See—*
Mehl, Wolfgang; and Amon, Albert, 4,636,223, Cl. 8-471.000.
Mehl, Wolfgang, 4,682,982, Cl. 08-468.000.

Siczek, Roman W.; Stanley, William W.; and Mikyska, Glenn E., to Cymatics, Inc. Orbital shaker. 4,673,297, 6-16-87, Cl. 366-208.000.

Sidaway, H. John; and Lytle, Donald A., to Hancor, Inc. Septic tank for alternative sewer systems. 4,709,723, 12-1-87, Cl. 137-584.000.

Siddall, Graham J., to Hewlett-Packard Company. Flexure stage alignment apparatus. 4,694,477, 9-15-87, Cl. 378-34.000.

Siddens, Jack K.: *See—*
Addor, Roger W.; Wright, Donald P., Jr.; Siddens, Jack K.; and Hand, John J., 4,649,148, Cl. 514-321.000.

Siddiq, Mohammed, to Memorex Corporation. Ferromagnetic recording materials. 4,657,816, 4-14-87, Cl. 428-403.000.

Siddiq, Mohammed, to Tandy Corporation. Multi-layer process for cobalt treatment of ferromagnetic oxides. 4,664,947, 5-12-87, Cl. 427-130.000.

Siddiqui, Kabir: *See—*
Dufau, Oscar R.; Siddiqui, Kabir; and Schoepe, Adolf, 4,656,676, Cl. 4-228.000.
Schoepe, Adolf; Dufau, Oscar R.; and Siddiqui, Kabir, 4,703,653, Cl. 73-322.500.

Siddle, John R.: *See—*
Waite, Michael S.; Williams, John L.; and Siddle, John R., 4,652,794, Cl. 313-509.000.

Siddle, Kenneth: *See—*
Forrest, Gordon C.; Salacinski, Philip R. P.; and Siddle, Kenneth, 4,659,678, Cl. 436-512.000.

Sidebotham, Christopher G.: *See—*
Averill, Robert G.; Khowaylo, Alex; and Sidebotham, Christopher G., 4,714,472, Cl. 623-20.000.

Sidebottom, Philip L., to Dictaphone Corporation. Changer apparatus with movable means for withdrawing recording media from an input hopper to a recording deck to an output hopper. 4,636,888, 1-13-87, Cl. 360-92.000.

Sidel: *See—*
Pasternicki, Michel, 4,675,070, Cl. 156-556.000.

Sidell, James H.: *See—*
Cumming, Newell E.; and Sidell, James H., 4,698,074, Cl. 55-126.000.

Siden, Dennis C.: *See—*
McMills, Corey J.; and Siden, Dennis C., 4,650,228, Cl. 285-381.000.

Siden, Leroy E.: *See—*
Hujsak, Edward J.; and Siden, Leroy E., 4,667,907, Cl. 244-158.00R.

Sides, Harold L.; and Marshek, Kurt M. Single pole hunting stand. 4,674,598, 6-23-87, Cl. 182-116.000.

Sides, Richard J., Sr.; Crawford, Christopher L.; Nunweiler, Raymond J., Jr.; Muth, David L.; and Hope, George P., to RCA Corporation. Television chassis. 4,643,493, 2-17-87, Cl. 312-7.200.

Sidewinder Joint Venture: *See—*
Burton, Michael B., 4,699,224, Cl. 175-61.000.

Sidewinder Products Corporation: *See—*
Singleton, Robert P., 4,680,994, Cl. 81-57.200.

Sidey, Michael J.: *See—*
Aranguren, William L.; Restrepo, Mario A.; and Sidey, Michael J., 4,674,085, Cl. 370-85.000.

Sidhu, Gursharan S.; Oppenheimer, Alan B.; Kenyon, Lawrence A., Jr.; and Hochsprung, Ronald R., to Apple Computer, Inc. Local area network with self assigned address method. 4,689,786, 8-25-87, Cl. 370-94.000.

Sidhu, Gursharan S.: *See—*
Hochsprung, Ronald R.; Kenyon, Lawrence A., Jr.; Oppenheimer, Alan B.; and Sidhu, Gursharan S., 4,661,902, Cl. 364-200.000.

Sidki, Ahmad M.; and Smith, David S., to Internationale Octrooi Maatschappij "Octropa" B.V. Assay processes and materials therefor. 4,637,985, 1-20-87, Cl. 436-518.000.

Sidler, Gregor; and Rickenbach, Jakob, to Fritz Gegauf Aktiengesellschaft Bernina-Nahmaschinenfabrik. Device for braking the limbs of needle threads in oscillating hook type sewing machines. 4,643,112, 2-17-87, Cl. 112-185.000.

Sidler, Hans: *See—*
Stalder, Hans; and Sidler, Hans, 4,646,777, Cl. 137-242.000.

Sidler, Werner, to Emhart Industries, Inc. Control of apparatus for use in the manufacture of glassware articles. 4,636,238, 1-13-87, Cl. 65-29.000.

Sidlosky, David M.: *See—*
Nagel, Gregory L.; Sidlosky, David M.; Murty, Balarama V.; Lee, Anthony; and Cleveland, Dixon, 4,694,135, Cl. 219-110.000.

Sidmar S/A: *See—*
De Langhe, Heli, 4,660,593, Cl. 137-340.000.

Sidney Rich Associates, Inc.: *See—*
Sigoloff, Jerome A., 4,712,314, Cl. 36-112.000.

Sidvers, John; and Hume, James G., to Xerox Corporation. Universal ribbon cartridge. 4,650,357, 3-17-87, Cl. 400-208.000.

Sie, Swan A., to Chevron Research Company. Sign bit optical-electrical geophone. 4,694,162, 9-15-87, Cl. 250-231.00R.

Sie, Swan T., to Shell Oil Company. Process for producing synthesis gas. 4,681,701, 7-21-87, Cl. 252-373.000.

Sie, Swan T.: *See—*
Bode, Dirk; and Sie, Swan T., 4,686,238, Cl. 518-700.000.
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Siegel, Richard C.; Marx, Christina S.; Hargitay, Bartholomew; and Wotherspoon, Neil, to Technicon Instruments Corporation. Hydrophilic assay reagent containing one member of specific binding pair. 4,713,350, 12-15-87, Cl. 436-533.000.
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Siekmann, Helmut E.; Bassler, Jurgen; and Liebig, Winfried, to UHDE GmbH; and Siekmann, Helmut E. Process for the separation of fluids of different vapor pressures. 4,657,565, 4-14-87, Cl. 55-55.000.

Siekmann, Helmut E., to Uhde GmbH; and Siekmann, Helmut E. Equipment for the generation of cavitation. 4,657,569, 4-14-87, Cl. 55-189.000.

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Sieler, Jeffrey J., to Shell Offshore Inc. Cementing portion of conductor string. 4,703,813, 11-3-87, Cl. 175-5.000.

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Dehner, Guenter, 4,707,786, Cl. 364-414.000.
Dempf, Josef; and Moser, Erich, 4,682,770, Cl. 271-176.000.
Diegel, Dieter; Plohn, Gerhard; and Schuh, Manfred, deceased, 4,694,188, Cl. 290-40.00B.
Diepers, Heinrich; and Schewe, Herbert, 4,639,811, Cl. 360-125.000.
Dirmeyer, Josef; Kathmann, Heinz; Merkle, Franz; Oberberger, Franz; Wilhelm, Walter; and Wimmer, Josef, 4,700,157, Cl. 333-185.000.
Dittmann, Michael, 4,683,358, Cl. 200-243.000.
Dittmann, Michael, 4,684,909, Cl. 335-128.000.
Dittmann, Michael; and Stadler, Heinz, 4,684,910, Cl. 335-274.000.

Doemens, Gunter, 4,705,329, Cl. 324-73.0PC.
Doerfler, Rudolf; Krause, Kurt; Kummerow, Gerd; Moerman, Boudewijn; Schnabel, Rudolf; Schroether, Gerhard; Voigt, Rolf; Weidner, Georg; and Zentgraf, Lothar, 4,670,812, Cl. 361-83.000.
Dolansky, Franz; and Steiner, Ewald, 4,639,820, Cl. 361-124.000.
Dolansky, Franz; and Steiner, Ewald, 4,647,121, Cl. 339-14.00R.
Dost, Willibald; and Kreutzer, Hans, 4,638,486, Cl. 372-107.000.
Dotzauer, Peter; and Schmidt, Martin, 4,709,559, Cl. 62-499.000.
Douklias, Nikolaos; and Grabmaier, Josef, 4,642,129, Cl. 65-3.120.
Draxelmayr, Dieter, 4,656,415, Cl. 323-314.000.
Dziggel, Klaus-Peter, 4,641,245, Cl. 364-478.000.
Eberhard, Guenther; and Krause, Joachim, 4,644,190, Cl. 307-450.000.
Eberspaecher, Joerg, 4,715,026, Cl. 370-1.000.
Edinger, Egon; Koetter, Joachim; Kraske, Dietmar; Krumrey, Klaus; Mayser, Joerg; and Michael, Ulrich, 4,667,403, Cl. 29-840.000.
Edinger, Egon; and Pedall, Friedrich, 4,674,161, Cl. 29-25.350.
Eggert, Horst; and Olsen, Willi, 4,709,291, Cl. 361-2.000.
Eher, Manfred, 4,700,381, Cl. 379-279.000.
Ehrmann-Falkenau, Ekkehard; Veith, Richard; and Till, Wolfgang, 4,673,901, Cl. 333-196.000.
Eigenstetter, Herbert; and Mengel, Peter, 4,703,185, Cl. 250-548.000.
Einsle, Guenter; Mayr, Ernst; Oestreich, Ulrich; Schoeber, Gernot; and Schrey, Wolfgang, 4,689,943, Cl. 57-90.000.
Einsle, Guenter; and Mayr, Ernst, 4,702,404, Cl. 226-7.000.
Einzinger, Josef; Fellinger, Christine; Leipold, Ludwig; Tihanyi, Jenoe; and Weber, Roland, 4,677,325, Cl. 307-574.000.
Einzinger, Josef; Fellinger, Christine; Leipold, Ludwig; Tihanyi, Jenoe; and Weber, Roland, 4,691,129, Cl. 307-581.000.
Engan, Helge, 4,649,509, Cl. 364-821.000.
Erdel, Karlheinz, 4,698,813, Cl. 371-40.000.
Eyer, Achim; Raeuber, Armin; and Schillinger, Norbert, 4,690,797, Cl. 419-23.000.
Faber, Werner, 4,672,338, Cl. 333-194.000.
Falckenberg, Richard; and Grabmaier, Josef, 4,664,745, Cl. 156-622.000.
Falkenstein, Rudolf; Haberland, Detlef; Kaindl, Michael; Haltenorth, Helmut; Prussas, Herbert; and Taumberger, Franz, 4,707,066, Cl. 350-96.200.
Fazekas, Peter, 4,634,972, Cl. 324-158.00R.
Fazekas, Peter, 4,642,566, Cl. 324-158.00R.
Fellerer, Josef, 4,677,492, Cl. 358-257.000.
Fenk, Josef, 4,635,003, Cl. 332-16.00R.
Feuerbaum, Hans-Peter, 4,651,003, Cl. 250-396.00R.
Feuerbaum, Hans-Peter; and Fazekas, Peter, 4,675,602, Cl. 324-158.00R.
Feuerbaum, Hans-Peter; and Fazekas, Peter, 4,686,466, Cl. 324-158.00R.
Feuerbaum, Hans-Peter; Frosien, Juergen; and Spehr, Rainer, 4,713,543, Cl. 250-310.000.
Finck, Albin; Gleixner, Ronald; Hoechamer, Horst; and Pieper, Wolfgang, 4,660,015, Cl. 336-192.000.
Fink, Ludwig; and Toussaint, Hans-Norbert, 4,678,265, Cl. 350-96.200.
Finkler, Klaus; and Wolf, Hans-Dieter, 4,658,412, Cl. 378-99.000.
Fischer, Dietmar; and Kublick, Christian, 4,642,475, Cl. 307-66.000.
Fischer, Dietrich; and Kuhn, Harald, 4,704,507, Cl. 200-148.00B.
Fischer, Helmut, 4,672,635, Cl. 375-76.000.
Fischer, Helmut, 4,707,842, Cl. 375-110.000.
Flach, Werner, 4,680,431, Cl. 178-69.00R.
Fleer, Ernst O., 4,555,709, Cl. 433-29.000.
Fleer, Ernst-Otto, 4,669,982, Cl. 433-29.000.
Formanek, Helmut; and Weyl, Reinhard, 4,647,478, Cl. 427-164.000.
Forster, Alfred; Riss, Helmut; and Walker, Heinz, 4,649,527, Cl. 367-108.000.
Franksen, Holger, 4,635,015, Cl. 335-216.000.
Freisen, Ludger; Kess, Helmut; Krause, Norbert; and Meissner, Ralph, 4,701,710, Cl. 324-318.000.
Fritz, Harald; and Wurll, Peter, 4,637,263, Cl. 73-862.040.
Fritz, Harald, 4,640,139, Cl. 73-862.040.
Fritz, Otmar, 4,690,275, Cl. 206-331.000.
Frosien, Juergen; and Spehr, Rainer, 4,675,524, Cl. 250-310.000.
Fruhauf, Waldemar, 4,691,128, Cl. 307-557.000.
Fuchs, Hans P.; and Goetz, Jurgen R., 4,694,278, Cl. 340-347.0DD.
Gaul, Hartmut; Mickal, Hermann; and Haboeck, Adolf, 4,692,632, Cl. 307-66.000.
Gebel, Rudolf; and Paul, Bernt, 4,675,483, Cl. 200-144.00B.
Geffcken, Walter, 4,667,130, Cl. 315-169.400.
Gehring, Gerhard, 4,645,949, Cl. 307-309.000.
Geiger, Gerhard; and Strafner, Michael, 4,672,587, Cl. 365-230.000.
Geldner, Ernst, 4,658,414, Cl. 378-132.000.
Geyer, Jurgen; and Kegler, Ernst, 4,673,809, Cl. 250-231.0SE.
Ghosh, Shyamal-Krishna; and Sturm, Emil, 4,672,289, Cl. 318-817.000.
Ghosh, Shyamal-Krishna; and Sturm, Emil, 4,672,290, Cl. 318-817.000.
Giebel, Wolfgang; and Meixner, Heinrich, 4,707,200, Cl. 156-48.000.
Glasow, Peter; and Ruhle, Wolfgang, 4,638,165, Cl. 250-370.000.
Glomb, Kurt; Niggl, Heinz; Pelzl, Leo; and Zell, Karl, 4,659,165, Cl. 339-176.00M.
Glomb, Kurt; Niggl, Heinz; Pelzl, Leo; and Zell, Karl, 4,710,132, Cl. 439-79.000.
Goepel, Ernst; and Kusmierz, Hans, 4,716,422, Cl. 346-140.00R.
Goetz, Jurgen R., 4,694,199, Cl. 307-297.000.
Goldmann, Horst; Mayr, Ernst; and Oestreich, Ulrich, 4,684,214, Cl. 350-96.230.
Goldmann, Horst; Einsle, Guenter; Brugger, Rudolf; and Wacker, Josef, 4,713,866, Cl. 29-33.00K.
Golker, Walter; Tamm, Horst; and Wanka, Eberhard, 4,675,607, Cl. 324-247.000.
Gose, Horst; and Papiernik, Wolfgang, 4,707,780, Cl. 364-176.000.
Grabmaier, Christa; Kotschy, Josef; and Lerchenberger, August, 4,643,797, Cl. 156-603.000.
Gradnitzer, Eckhard; and Klautschek, Herwig, 4,682,263, Cl. 361-31.000.
Grage, Ludger, 4,713,544, Cl. 250-334.000.
Grallert, Hans-Joachim; and Liegl, Werner, 4,651,194, Cl. 358-13.000.
Grallert, Hans-Joachim, 4,658,239, Cl. 340-347.0AD.
Granz, Bernd; Oppelt, Ralph; and Sachs, Bertram, 4,661,814, Cl. 340-825.790.
Grassl, Erwin; and Waechtler, Rudolf, 4,634,810, Cl. 379-61.000.
Grassl, Hans-Peter, 4,701,657, Cl. 310-313.00C.
Graumann, Rainer, 4,684,892, Cl. 324-309.000.
Grenzebach, Kurt; and Hopf, Wolfgang, 4,661,657, Cl. 380-21.000.
Grosse, Joachim; Hess, Ruediger; Kuhl, Wilfried; and Mueller, Reiner, 4,695,687, Cl. 200-144.00B.
Grossmann, Kurt; Bliesner, Jurgen; and Schikor, Joachim, 4,638,404, Cl. 361-388.000.
Gunkel, Hans-Dieter; and Rohrle, Josef, 4,701,878, Cl. 364-900.000.
Haas, Werner; Knuepfer, Wolfgang; and Pfeiler, Manfred, 4,682,600, Cl. 128-328.000.
Haberland, Detlef; Langenwalter, Michael; Panzer, Klaus; Rosen, Hans G.; Spaeter, Lothar; Spaeth, Werner; Seibert, Bernd; and Haltenorth, Helmut, 4,707,067, Cl. 350-96.200.
Habrich, Reiner; Bauer, Manfred; and Reiter, Alois, 4,715,795, Cl. 417-568.000.
Haendle, Joerg; and Haas, Werner, 4,663,773, Cl. 378-99.000.
Haendle, Jorg; and Maass, Wolfgang, 4,658,410, Cl. 378-41.000.
Hahn, Alfred, 4,641,335, Cl. 378-153.000.
Hahn, Alfred; Kamm, Bodo; Weiss, Karl; and Dummert, Johannes, 4,715,057, Cl. 378-197.000.
Hahn, Gunter, 4,651,338, Cl. 378-199.000.
Hanss, Karl; Schupp, Karl; and Block, Siegfried, 4,656,471, Cl. 340-825.160.
Hanke, Klaus; and Brajder, Antonio, 4,647,905, Cl. 340-347.0NT.
Hartkopf, Hans O.; and Zillmer, Adalbert, 4,641,243, Cl. 364-436.000.
Hartkopf, Hans-Otto; and Zeller, Christoph, 4,680,809, Cl. 455-601.000.
Hartl, Christof; and Wagner, Hans, 4,639,556, Cl. 381-68.600.
Hauenstein, Alfred, 4,683,438, Cl. 323-288.000.
Hedberg, Sven-Erik; Lekholm, Anders; and Lindgren, Anders, 4,714,079, Cl. 128-419.0PG.
Heinen, Jochen; Kappeler, Franz; and Westermeier, Heinz, 4,674,095, Cl. 372-50.000.
Heinen, Jochen, 4,683,574, Cl. 372-44.000.
Heinle, Georg, 4,688,163, Cl. 363-96.000.
Heinze, Udo; and Marhoff, Paul, 4,639,943, Cl. 378-96.000.
Heinzl, Joachim; and Rosenstock, Guenter, 4,716,418, Cl. 346-1.100.
Heinzler, Franz; and Fuhrer, Wolfgang, 4,672,315, Cl. 324-158.0SC.
Held-Elbert, Gabriele; Kaiser, Wolfgang; and Schmutzler, Werner, 4,691,337, Cl. 379-24.000.
Hennebergr, Hans, 4,680,799, Cl. 381-68.600.
Herberg, Helmut, 4,691,221, Cl. 357-46.000.
Herger, Paul, 4,689,789, Cl. 370-110.100.
Herkert, Hans; and Timmermann, Uwe, 4,698,628, Cl. 340-825.020.
Hermann, Adam, 4,660,123, Cl. 361-386.000.
Heuwieser, Erwin; and Muller, Rudiger, 4,668,858, Cl. 235-472.000.
Heuwieser, Erwin; and Schwaiger, Kurt, 4,694,207, Cl. 307-571.000.
Heynisch, Hinri..., 4,647,816, Cl. 315-3.500.
Heynisch, Hinrich; and Huebner, Klemens, 4,698,818, Cl. 372-34.000.
Hieber, Konrad; and Neppl, Franz, 4,673,968, Cl. 357-71.000.
Hieber, Konrad; Neppl, Franz; and Schober, Konrad, 4,680,612, Cl. 357-71.000.
Hildebrand, Reinhard; and Riedel, Friedrich, 4,656,877, Cl. 74-68.000.
Hildebrand, Reinhard; and Waldmann, Bernd, 4,656,880, Cl. 74-105.000.
Hildebrand, Reinhard; and Kusuma, Djuanarto-Adi, 4,669,370, Cl. 98-2.000.
Hildebrand, Reinhard; and Kusuma, Djuanarto-Adi, 4,702,155, Cl. 98-2.000.
Hillenbrand, Bernhard; Huber, Wilhelm; Littwin, Burkhard; and Schuster, Karl, 4,634,935, Cl. 315-169.400.
Hoelzlwimmer, Herbert; and Tengler, Walter, 4,672,441, Cl. 358-135.000.
Hoenig, Eckhardt, 4,693,000, Cl. 29-599.000.
Hoenig, Eckhardt, 4,700,135, Cl. 324-248.000.
Hofmann, Ludwig, 4,642,574, Cl. 329-50.000.
Hohmann, Eugen; Mund, Konrad; and Weidlich, Erhard, 4,710,233, Cl. 134-1.000.
Horbaschek, Heinz, 4,712,226, Cl. 378-134.000.

Horn, Guenther; Pieper, Wolfgang; and Roeser, Heribert, 4,649,047, Cl. 336-192.000.
Horn, Guenther; Pieper, Wolfgang; and Roeser, Heribert, 4,649,361, Cl. 336-192.000.
Howing, Jurgen, 4,638,113, Cl. 174-34.000.
Huber, Guenther, 4,658,183, Cl. 315-3.500.
Huber, Wilhelm, 4,659,963, Cl. 313-493.000.
Huebner, Erwin, 4,644,219, Cl. 313-270.000.
Humbs, Rolf, and Stempfl, Gerhard, 4,688,692, Cl. 220-3.800.
Hussain, Amir Von Stein, Christian; and Pflugbeil, Christa, 4,665,111, Cl. 523-428.000.
Huttenrauch, Gerd; Jann, Wolfangv; and Kranvogel, Felix, 4,672,652, Cl. 378-152.000.
Ihlein, Walter; and Rogler, Wolfgang, 4,636,556, Cl. 528-53.000.
Jahn, Herbert; and Waedt, Gunter, 4,710,850, Cl. 361-333.000.
Jahnke, Andreas, 4,680,565, Cl. 335-216.000.
Jahnke, Andreas; Ries, Gunter; and Meier, Konrad, 4,694,868, Cl. 140-92.100.
Jahnke, Andreas, 4,710,722, Cl. 328-234.000.
Jahnke, Andreas, 4,710,838, Cl. 360-125.000.
Jans, Herbert, 4,649,234, Cl. 379-138.000.
John, Heinz; and Windele, Josef, 4,699,496, Cl. 355-3.0TR.
Kaarmann, Hans; Lubitz, Karl; Mohaupt, Jutta; Vogt, Martina; and Wersing, Wolfram, 4,686,409, Cl. 310-358.000.
Kalender, Wilh. Schmitt, Guenter; and Suess, Christoph, 4,651,335, Cl. 378-20.000.
Kammerlander, Karl; Haderer, Anton; and Neyen, Hans-Juergen v. d., 4,667,202, Cl. 342-457.000.
Kaupp, Goran, 4,677,523, Cl. 361-329.000.
Keller, Wolfgang, 4,696,716, Cl. 156-605.000.
Keprda, Jaroslav, 4,641,004, Cl. 200-340.000.
Kern, Josef; and Dittmann, Michael, 4,647,743, Cl. 200-275.000.
Kern, Josef, 4,682,133, Cl. 335-119.000.
Kerschner, Gunther; Michels-Krohn, Karl-Heinz; and Untergruber, Josef, deceased, 4,700,018, Cl. 178-2.00C.
Kerschner, Gunther; Michels-Krohn, Karl-Heinz; and Untergruber, Josef, deceased, 4,700,019, Cl. 178-2.00C.
Kessler, Heinrich, 4,686,507, Cl. 340-347.0AD.
Kestler, Joachim, 4,644,282, Cl. 324-322.000.
Kiesel, Helmut; and Stoeckl, Klaus, 4,657,217, Cl. 248-280.100.
Kiesel, Helmut; and Stoeckl, Klaus, 4,714,222, Cl. 248-282.000.
Kimpel, Rolf D., 4,713,727, Cl. 361-334.000.
Kirchner, Albert; Schoen, Juergen; and Happ, Ortwin, 4,638,204, Cl. 310-239.000.
Klein, Sigismund, 4,710,947, Cl. 378-147.000.
Kleinschmidt, Peter; and Magori, Valentin, 4,677,337, Cl. 310-334.000.
Klosber, Gerald, 4,695,818, Cl. 338-22.00R.
Kobale, Manfred; and Mammach, Peter, 4,663,564, Cl. 313-551.000.
Koch, Klaus, 4,651,228, Cl. 358-298.000.
Kohler, Gerd; and Burger, Rudolf, 4,655,674, Cl. 414-735.000.
Kohler, Gerd; and Burger, Rudolf, 4,661,038, Cl. 414-730.000.
Koller, Franz, 4,615,073, Cl. 264-102.000.
Koller, Franz, 4,703,847, Cl. 228-49.100.
Konig, Gerhard; Fieck, Karl; Kess, Herbert; and Weigand, Artur, 4,701,974, Cl. 15-323.000.
Kraft, Heinz-Peter, 4,707,071, Cl. 350-96.210.
Krause, Bernd, 4,714,879, Cl. 324-158.00F.
Krause, Dieter, 4,714,315, Cl. 350-96.200.
Krause, Norbert, 4,667,160, Cl. 324-318.000.
Krause, Norbert, 4,680,550, Cl. 324-318.000.
Krause, Peter, 4,687,292, Cl. 350-96.210.
Krebber, Ernst-Werner, 4,704,141, Cl. 55-197.000.
Kruehler, Wolfgang; and Grabmaier, Josef, 4,657,603, Cl. 148-175.000.
Kuchler, Heinrich, 4,635,252, Cl. 370-62.000.
Kuhl, Wilfried; Klug, Leonhard; Rost, Bernd; and Schilling, Wolfgang, 4,672,323, Cl. 324-460.000.
Kupec, Peter; Metzner, Uwe; and Thilo, Peer, 4,684,932, Cl. 340-564.000.
Kuphal, Eckart; and Burkhard, Herbert, 4,661,175, Cl. 148-171.000.
Lachmann, Ulrich; and Krug, Erwin, 4,651,083, Cl. 323-316.000.
Lampl, Josef, 4,710,953, Cl. 379-391.000.
Landgraf, Hermann; Schuss, Werner; and Schwarz, Werner, 4,647,081, Cl. 285-304.000.
Landgraf, Hermann; Schuss, Werner; and Worschischek, Rainer-Karl, 4,681,540, Cl. 433-126.000.
Lange, Gerhard; and Weil, Erich, 4,705,371, Cl. 106-287.100.
Lange, Gottfried, 4,691,232, Cl. 358-111.000.
Langenwalter, Michael; and Spater, Lothar, 4,656,352, Cl. 250-227.000.
Langenwalter, Michael; Moehrmann, Karl H.; Prussas, Herbert; and Spaeter, Lothar, 4,683,489, Cl. 357-81.000.
Lassmann, Reiner; Krupp, Albert; and Fazekas, Peter, 4,686,455, Cl. 324-73.00R.
Lechner, Robert; and Sealer, David, 4,651,110, Cl. 330-9.000.
Lechner, Robert; Rudolf, Hans-Werner; and Krimmer, Roland, 4,715,058, Cl. 379-27.000.
Leitgeb, Wilhelm, 4,677,331, Cl. 310-156.000.
Lekholm, Anders, 4,694,830, Cl. 128-419.0PG.
Lekholm, Anders; and Amundson, David C., 4,697,591, Cl. 128-419.0PG.
Lerch, Reinhard, 4,635,484, Cl. 73-628.000.
Lindner, Adolf, 4,658,321, Cl. 361-25.000.
Lischke, Burkhard; and Frosien, Juergen, 4,677,296, Cl. 250-310.000.
Littwin, Burkhard, 4,672,272, Cl. 315-169.100.
Loeffler, Herbert; and Preiner, Peter, 4,708,428, Cl. 350-96.200.
Loeffler, Wilfried; and Oppelt, Arnulf, 4,703,271, Cl. 324-319.000.
Luft, Johann, 4,712,220, Cl. 372-50.000.
Maerz, Reinhard; and Heise, Gerhard, 4,670,093, Cl. 156-649.000.
Magori, Valentin, 4,634,947, Cl. 318-568.000.
Magori, Valentin, 4,650,958, Cl. 219-124.340.
Magori, Valentin, 4,656,384, Cl. 310-334.000.
Mahlein, Hans F.; Reichelt, Achim; and Winzer, Gerhard, 4,637,682, Cl. 350-96.150.
Mahlein, Hans F.; Michel, Herbert; Reichelt, Achim; and Winzer, Gerhard, 4,682,843, Cl. 350-96.150.
Mahrla, Peter, 4,686,557, Cl. 357-34.000.
Maier, Georg, 4,704,313, Cl. 426-33.000.
Marquardt, Rainer; Salzmann, Theodor; and Peppel, Michael, 4,682,278, Cl. 363-58.000.
Marquardt, Ulrich; and Seebold, Ralf, 4,636,762, Cl. 335-195.000.
Marquardt, Ulrich; and Seebold, Ralf, 4,655,098, Cl. 74-161.00.
Marth, Kurt; Muller, Gerhard; Putz, Jurgen; and Schindler, Josef, 4,704,592, Cl. 336-83.000.
Mattausch, Hans J., 4,691,302, Cl. 365-240.000.
Mattelin, Antoon; and Paquet, Bert, 4,678,289, Cl. 350-486.00.
Maurer, Arnolf; and Siebold, Horst, 4,636,729, Cl. 324-318.000.
Mayr, Ernst; and Oestreich, Ulrich, 4,660,926, Cl. 350-96.230.
Mayr, Ernst; and Saller, Helmut, 4,664,472, Cl. 350-96.230.
Meier, Konrad, 4,709,470, Cl. 29-605.000.
Meissner, Ralph; and Popp, Walter, 4,714,897, Cl. 324-322.00.
Meltsch, Hans-Juergen, 4,656,316, Cl. 174-92.000.
Meltsch, Hans-Jurgen, 4,630,546, Cl. 174-92.000.
Merz, Arthur, 4,679,149, Cl. 364-478.000.
Meusel, Otto; Seidel, Siegfried; Muench, Heinz-Dieter; and Deshardt, Guenther, 4,672,511, Cl. 361-415.000.
Meyer, Willibald; and Wawersig, Jurgen, 4,635,190, Cl. 365-200.000.
Michels-Krohn, Karl-Heinz; and Untergruber, Josef, deceased, 4,700,020, Cl. 178-2.00R.
Michels-Krohn, Karl-Heinz; and Untergruber, Josef, deceased, 4,700,021, Cl. 178-2.00R.
Mieth, Guenther; and Schwarz, Ulf, 4,695,785, Cl. 323-222.00.
Mitlehner, Heinz; and Kolbesen, Bernd, 4,680,601, Cl. 357-17.00.
Moberg, Lennart, 4,686,990, Cl. 128-419.0PT.
Moberg, Lennart, 4,715,381, Cl. 128-419.0PT.
Moeller, Matthias, 4,681,984, Cl. 136-258.000.
Moeller, Reiner; Hetzel, Gert; Saugeon, Ulrich; Bohem, Gunter; and Zurinski, Viktor, 4,707,813, Cl. 367-103.000.
Moench, Julius; Rentzsch, Heinz; Lang, Georg; and Mueller, Herbert, 4,654,243, Cl. 428-46.000.
Moll, Helmut; Wiegel, Gerd; Schindler, Josef; Scherer, Wilhelm; and Marth, Kurt, 4,712,723, Cl. 228-111.000.
Moyaert, Werner, 4,702,545, Cl. 439-456.000.
Muck, Jurgen; Fischer, Hans; and Kramer, Richard, 4,642,596, Cl. 29-598.000.
Mugrauer, Hubert; Puritscher, Ernst; and Wermann, Hans, 4,711,564, Cl. 355-30.000.
Muller, Erwin; and Ruhland, Alois, 4,670,727, Cl. 335-274.000.
Muller, Erwin, 4,692,730, Cl. 335-278.000.
Muller, Rudolf; Lange, Eckhard; and Schweizer, Erich, 4,701,66, Cl. 73-23.000.
Narjes, Ferdinand, 4,711,976, Cl. 178-2.00C.
Naylor, Thomas K., 4,683,441, Cl. 330-69.000.
Neppl, Franz; Schwabe, Ulrich; and Hieber, Konrad, 4,640,344, Cl. 427-38.000.
Neuhauer, Heinz, 4,677,990, Cl. 128-786.000.
Neupauer, Helmut, 4,638,415, Cl. 363-35.000.
Neupauer, Helmut; Kaufhold, Wolfgang; and Wild, Gerg, 4,638,416, Cl. 363-35.000.
Neupauer, Helmut, 4,648,018, Cl. 363-35.000.
Neupauer, Helmut, 4,665,474, Cl. 363-35.000.
Ney, Janusz; and Bartussek, Horst, 4,672,516, Cl. 363-16.000.
Niedermayr, Erich, 4,642,902, Cl. 33-543.000.
Ninnemann, Peter; and Wollscheid, Dieter, 4,648,063, Cl. 364-900.000.
Nirschl, Heinrich; Kamp, Klaus; and Stummer, Baldur, 4,639,80, Cl. 370-58.000.
Nitt, Karl-Heinz, 4,696,631, Cl. 425-117.000.
Nussbaecher, Hans K., 4,639,888, Cl. 364-788.000.
Oestreich, Ulrich; and Mayr, Ernst, 4,641,916, Cl. 350-96.230.
Oestreich, Ulrich, 4,673,247, Cl. 350-96.230.
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Olbrich, Otto; Schachl, Rudolf; and Vanek, Vaclav, 4,689,703, Cl. 360-104.000.
Olsen, Willi; Lorenz, Dieter; and Dambietz, Hans-Peter, 4,659,95, Cl. 200-148.00P.
Oppelt, Arnulf, 4,652,824, Cl. 324-318.000.
Ott, Guenter; and Zettl, Franz, 4,675,644, Cl. 338-21.000.
Pammer, Erich, 4,680,610, Cl. 357-68.000.
Panse, Hubert, 4,644,254, Cl. 323-282.000.
Panse, Hubert; and Schlegel, Wolfgang, 4,707,775, Cl. 363-37.00, Pauls, Karlheinz; and Reichenberger, Helmut, 4,674,505, Cl. 128-328.000.
Pelzl, Leo; Seibold, Juergen; and Zell, Karl, 4,652,066, Cl. 17.0LC.
Peppel, Joerg-Michael, 4,670,830, Cl. 363-57.000.
Peppel, Joerg-Michael, 4,698,520, Cl. 307-633.000.
Peppel, Michael; and Salzmann, Theodor, 4,674,023, Cl. 363-57.000.

Peruth, Guenther; and Lenz, Michael, 4,648,036, Cl. 363-21.000.
Pettke, Felix; Swors, Hans; and Meixner, Hans, 4,716,294, Cl. 250-353.000.
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Pink, Hans, 4,673,656, Cl. 436-173.000.
Plackner, Kurt; Schernberger, Rudolf; and Kirchpfening, Max, deceased, 4,645,963, Cl. 310-266.000.
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Reick, Horst; and Kratz, Gerhard, 4,634,943, Cl. 318-432.000.
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Richter, Martin; and Piesch, Reinhold, 4,648,004, Cl. 361-143.000.
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Rosenberg, Heinz, 4,704,571, Cl. 322-29.000.
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Schultz, Ludwig, 4,710,236, Cl. 148-11.50P.
Schulz, Dietmar; Pohl, Peter; and Johnson, Alfred H., 4,715,674, Cl. 350-96.210.
Schulz, Winfried, 4,667,516, Cl. 73-708.000.
Schwab, August, 4,706,057, Cl. 335-284.000.
Schwarz, Johann, 4,637,089, Cl. 15-118.000.
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Segal, Henry P.; and DeWilde, Carl A., 4,697,262, Cl. 370-84.000.
Segger, Bernd, 4,716,488, Cl. 361-88.000.
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Sinha, Badri, 4,666,822, Cl. 430-311.000.
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Spork, Franz, 4,672,252, Cl. 310-216.000.
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Stengl, Reinhard; Goesele, Ulrich; and Fellinger, Christine, 4,672,738, Cl. 29-576.00B.
Stepp, Richard, 4,668,910, Cl. 324-77.00B.
Stetter, Eckart; Reichenberger, Helmut; Schneider, Siegfried; and Wirth, Axel, 4,682,108, Cl. 324-309.000.
Stoerk, Peter, 4,688,886, Cl. 350-96.210.
Storck, Eckhard; and Stockmann, Michael, 4,655,593, Cl. 356-300.000.
Strehl, Herbert, 4,647,972, Cl. 358-160.000.
Sumn, Herbert, 4,658,409, Cl. 378-37.000.
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Thom, Guenter; and Zell, Karl, 4,674,812, Cl. 439-78.000.
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Tihanyi, Jenoe; Fellinger, Christine; and Leipold, Ludwig, 4,688,071, Cl. 357-41.000.
Treffer, Gerhard, 4,656,403, Cl. 318-341.000.
Turk, Wilfried; and Wessely, Herrmann, 4,654,753, Cl. 361-388.000.
Ulbrich, Walter; Rainer, Alois; and Noll, Tobias, 4,675,837, Cl. 364-788.000.
Vermeulen, Ronny, 4,705,925, Cl. 200-340.000.
Vettari, Giancarlo, 4,644,258, Cl. 323-324.000.
Vetter, Harald; and Schreiber, Friedewald, 4,672,507, Cl. 361-329.000.
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Vogl, Herbert, 4,641,303, Cl. 370-84.000.
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Von Gentzkow, Wolfgang; Markert, Helmut; Hauschildt, Hans; and Schmiedel, Manfred, 4,638,019, Cl. 522-104.000.
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von Sichart, Frithjof; and Eberspacher, Jorg, 4,661,952, Cl. 370-94.000.
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Warden, Hans-Erik, 4,712,227, Cl. 378-173.000.
Watzke, Franz; Lange, Gerhard; and Boy, Juergen, 4,665,337, Cl. 313-231.110.
Wegmann, Gerhard, 4,658,098, Cl. 379-113.000.
Wehrberger, Helmut; and Summa, Ulrich, 4,716,261, Cl. 191-39.000.
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Weihrich, Georg; and Wohld, Dietrich, 4,685,063, Cl. 364-472.000.
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Wendt, Peter, 4,695,919, Cl. 361-110.000.
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Wentzel, Peter; Huber, Erich; Weiss, Eckardt; and Achatz, Florian, 4,706,136, Cl. 360-39.000.
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Wilhelm, Wilhelm, 4,641,283, Cl. 365-190.000.
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Wolff, Pieter; and Wedler, Hartmut, 4,595,974, Cl. 364-900.000.
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Zibis, Peter, 4,684,907, Cl. 333-196.000.
Zibis, Peter; and Veith, Richard, 4,703,290, Cl. 333-195.000.
Zuckler, Karl, 4,667,070, Cl. 200-144.00B.
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Bajka, Imre; and Furrer, Robert, 4,703,714, Cl. 118-57.000.

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Young, John W.; Luke, Roger D.; Rhodes, Henry J.; and Hudgins, Jeffrey K., 4,649,241, Cl. 200-82.00R.

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Chiu, Ming-Yee; and Devinney, Edward J., Jr., 4,677,302, Cl. 250-560.000.
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Thornander, Hans T.; Poore, John W.; Sholder, Jason A.; Thacker, James R.; and Amundson, David C., 4,712,555, Cl. 128-419.0PG.

Siemens Energy & Automation, Inc.: *See*—
DiMarco, Bernard; and Stanford, Charles W., 4,675,635, Cl. 335-35.000.
DiMarco, Bernard; and Stanford, Charles W., 4,675,640, Cl. 337-70.000.
Farag, Samir F.; Kleinecke, John D.; and Smith, Randy M., 4,652,966, Cl. 361-189.000.
Hohnstein, Dean H.; Jandovitz, John S.; and Lehoczky, Kalman N., 4,673,835, Cl. 310-217.000.
Kralik, Andrew J., 4,649,242, Cl. 200-147.00R.
Lott, Donald L., 4,638,285, Cl. 338-21.000.
Perkins, Norman P.; Luke, Roger D.; and Kaufman, Steven A., 4,636,915, Cl. 361-355.000.
Stich, Frederick A., 4,659,973, Cl. 318-718.000.
Volkmar, Ralf R., 4,642,594, Cl. 335-227.000.

Siemens Gammasonics, Inc.: *See*—
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Groch, Mark W.; and Domnanovich, James R., 4,649,930, Cl. 128-695.000.
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Hanz, George J.; Jung, Guenter; and Pflaum, Michael, 4,692,625, Cl. 250-363.00R.
Hawman, Eric G., 4,659,935, Cl. 250-505.100.
Hawman, Eric G.; and Hsieh, Jiang, 4,670,657, Cl. 250-505.100.
Persyk, Dennis E., 4,649,268, Cl. 250-207.000.
Persyk, Dennis E., 4,649,269, Cl. 250-207.000.
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Persyk, Dennis E.; and Stoub, Everett W., 4,663,187, Cl. 427-65.000.
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Siemens Hearing Instruments, Inc.: *See*—
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Siemens Medical Laboratories, Inc.: *See*—
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Siemens Medical Systems, Inc.: *See*—
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Siemer, Dennis K. Taped parts counter. 4,709,379, 11-24-87, Cl. 377-3.000.

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Siemer, Glenn E.: *See*—
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Siemers, Paul A.; Kopp, Robert W.; and Jackson, Melvin R., to General Electric Company. Alternating segment ring structure. 4,657,823, 4-14-87, Cl. 428-610.000.

Siemers, Paul A.: *See*—
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Knickerbocker, Robert H., 4,656,725, Cl. 29-566.400.
Siemon, John A., 4,702,540, Cl. 439-371.000.
Thomas, Stephen M., 4,655,521, Cl. 339-31.00R.
Thomas, Stephen M.; and Nittowski, Ronald, 4,682,837, Cl. 439-344.000.

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Siemonsma, William. Rollaway oil drain pan. 4,674,586, 6-23-87, Cl. 184-106.000.

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Siems, Lee E., to Litton Resources Systems, Inc. Optical telemetry transceiver. 4,654,660, 3-31-87, Cl. 340-870.290.

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Sieradzki, Christopher Z., to AMSTED Industries Incorporated. Grinding wheel advancing apparatus. 4,679,358, 7-14-87, Cl. 51-165.720.

Sierocuk, Thomas J.; and Newman, Robert W., to General Electric Company. Three-dimensional nuclear magnetic resonance phantom. 4,644,276, 2-17-87, Cl. 324-307.000.

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Fernandes, Roosevelt A.; Smith-Vaniz, William R.; Burbank, John E., III; and Sieron, Richard L., 4,635,055, Cl. 340-870.170.
Smith-Vaniz, William R.; and Sieron, Richard L., 4,714,893, Cl. 324-126.000.

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Lambie, Johannes M. H., 4,657,576, Cl. 71-64.070.

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Hunter, Stanley M.; and Oujiri, Steven I., 4,663,417, Cl. 528-80.00.
Hunter, Stanley M.; and Oujiri, Steven I., 4,666,758, Cl. 428-212.000.
Nelson, Roger E.; and Lucky, Clyde L., 4,676,883, Cl. 204-298.00.
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Owen, Charles B.; Owen, Charles C.; and Lin, Steve, 4,678,014, Cl. 141-67.000.

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Sievers, George K. Corrosion, erosion and wear resistant alloy structures and method therefor. 4,656,099, 4-7-87, Cl. 428-610.000.

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Schulz-Hennig, Joerg; and Sievers, Horst, 4,694,150, Cl. 250-201.000.
Schulz-Hennig, Joerg; and Sievers, Horst, 4,694,152, Cl. 250-201.000.
Schulz-Hennig, Joerg; and Sievers, Horst, 4,707,597, Cl. 250-209.000.

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Rogers, Robert T.; and Siewert, James C., 4,713,720, Cl. 361-97.000.

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Siffrin, Horst, to Walter Becker GmbH. Edifice for confinement of equipment in mines and the like. 4,670,623, 6-2-87, Cl. 174-50.000.

Siffroi, Lucien: *See*—
Belbel, Elie; Caudron, Robert; Fechant, Louis; Haury, Andre; Lauraire, Michel; Muniesa, Jacques; and Siffroi, Lucien, 4,638,275, Cl. 335-151.000.

SIG Schweizerische Industrie-Gesellschaft: *See*—
Boli, Hans-Ulrich; and Widmann, Franz-Josef, 4,666,079, Cl. 229-87.00F.
Egli, Alwin, 4,662,409, Cl. 141-1.000.
Fluck, Rene , 4,669,600, Cl. 198-408.000.
Graf, Heinrich, 4,638,912, Cl. 206-621.000.
Knecht, Alfred, 4,648,236, Cl. 53-234.000.
Kopp, Georg, 4,645,062, Cl. 198-448.000.
Steiner, Heinz; and Knoll, Fritz, 4,650,167, Cl. 267-137.000.
Steiner, Heinz, 4,673,042, Cl. 173-134.000.

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Montgomery, John W.; Oliver, Earl H.; Hall, Alfred E.; and Sigalos, John L., 4,703,573, Cl. 40-455.000.
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Sigl, Alfred, to Robert Bosch GmbH. Vehicle with lockable differential. 4,671,373, 6-9-87, Cl. 180-197.000.

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Licata, Joseph P.; and Sigler, Robert M., Jr., 4,670,695, Cl. 318-443.000.

Sigler, Roger M.; and Sigler, Timothy J., to Myron International, Inc. Porcelain dental restoration method. 4,654,007, 3-31-87, Cl. 433-126.000.

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Sigley, Gordon B. Sextant having a microprocessor for calculating the position of heavenly bodies. 4,702,011, 10-27-87, Cl. 33-268.000.

Sigma Corporation: *See*—
Yamaki, Michihiro, 4,647,171, Cl. 354-286.000.

Sigma Design, Inc.: *See*—
Thomson, Robert, 4,642,780, Cl. 364-512.000.

Sigma Enterprises, Inc.: *See*—
Hagiwara, Takashi, 4,679,143, Cl. 364-412.000.
Spencer, Larry K., 4,643,228, Cl. 137-625.660.
Spencer, Larry K.; Wilson, Clyde D.; and Vanlangendonck, Robert, 4,645,431, Cl. 417-401.000.

Sigma Instruments, Inc.: *See*—
Beling, Thomas E., 4,683,472, Cl. 340-870.020.
Beling, Thomas E., 4,700,123, Cl. 323-210.000.
Horber, Ralph W., 4,712,028, Cl. 310-49.00R.
Pellegrino, John; and Palmin, Simyon, 4,675,590, Cl. 318-696.000.

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Ireland, Eric; O'Brien, Rory M.; Wall, Barrie; Hicks, Peter A. R.; and Zaremba, Zbigniew, 4,665,625, Cl. 33-530.000.

Sigma Plastique: *See*—
Tauzin, Francis, 4,635,561, Cl. 105-329.100.
Tauzin, Francis, 4,693,033, Cl. 49-122.000.

Sigma Security Inc.: *See*—
Mejia, Ezequiel; Taillefer, Pierre; and Nguyen, Phuc, 4,663,612, Cl. 340-572.000.
Mejia, Ezequiel, 4,686,154, Cl. 428-611.000.

Sigma-Tau Industrie Farmaceutiche Riunite S.p.A.: *See*—
Colombo, Paolo; Conte, Ubaldo; and Reiner, Alberto, 4,681,755, Cl. 424-486.000.
Fanelli, Ottorino, 4,649,159, Cl. 514-556.000.
Fanelli, Ottorino, 4,656,191, Cl. 514-556.000.
Onofrj, Marco, 4,663,352, Cl. 514-556.000.

Sigma-Tau Industrie Pharmaceutiche Riunite S.p.A.: *See*—
Sih, Charles J., 4,710,468, Cl. 435-135.000.

Sigma Tool & Machine Limited: *See*—
Leistner, Walter H., 4,711,980, Cl. 219-56.000.

Sigmaform Corporation: *See*—
Akiyama, James K.; Freysing, Klaus D.; and Young, Richard A., 4,647,716, Cl. 174-77.00R.

Sigman, Daniel M., Jr.: *See*—
Davey, Raymond G.; Dees, Martin, Jr.; and Sigman, Daniel M., Jr., 4,709,631, Cl. 101-129.000.

Sigman, Malcolm. Child I.D. system. 4,650,219, 3-17-87, Cl. 283-70.000.

Signal Applied Technologies, Inc.: *See*—
Onal, Isik, 4,702,897, Cl. 423-213.500.

Signal Processors Limited: *See*—
Gordon, John; and King, Graham, 4,675,871, Cl. 371-46.000.

Signal Security Technologies: *See*—
Wiedemer, John D., 4,696,034, Cl. 380-16.000.

Signatron, Inc.: *See*—
Mui, Shou Y., 4,694,467, Cl. 375-1.000.
Parl, Steen A.; and Pierce, John N., 4,670,885, Cl. 375-1.000.

Signetics: *See*—
Freeman, Martin; and Kaplinsky, Cecil H., 4,677,546, Cl. 364-200.000.

Signetics Corporation: *See*—
Becker, Scott T.; Bergman, Michael J.; and Lee, Shueh-Mien, 4,641,046, Cl. 307-448.000.
Bellavance, Joseph T.; and Price, William J., 4,636,978, Cl. 364-900.000.
Blauschild, Robert A., 4,649,352, Cl. 330-261.000.
Blauschild, Robert A.; and Toy, Edmond, 4,677,315, Cl. 307-350.000.
Bril, Thijs W., 4,708,767, Cl. 437-18.000.
Cavlan, Napoleone, 4,703,206, Cl. 307-465.000.
Chen, Kong-Chen; and Hage, Kees, 4,674,090, Cl. 371-25.000.
Chen, Teh-Yi J., 4,653,173, Cl. 29-571.000.
Conner, George W.; Donald, Raymond G.; and Cline, Ronald L., 4,694,566, Cl. 437-48.000.
Dhuyvetter, Timothy A., 4,684,898, Cl. 329-104.000.
Flowers, Ronald C., 4,692,991, Cl. 437-175.000.
Huijsing, Johan H.; and Dhuyvetter, Timothy A., 4,678,947, Cl. 307-490.000.
Kaplinsky, Cecil H., 4,669,043, Cl. 364-200.000.
Kolluri, Madhavprasad V., 4,649,371, Cl. 340-347.0AD.
Lim, Sheldon C. P., 4,662,986, Cl. 156-643.000.
Mahmud, Syed T., 4,636,661, Cl. 307-468.000.

Signfix Limited: *See*—
Heard, Robert A. H., 4,705,253, Cl. 248-219.400.

Signode Corporation: *See*—
Bader, Robert J., Jr., 4,651,944, Cl. 242-75.500.
Boeckmann, Hugo; Lems, Peter; and Van Erden, Donald L., 4,646,511, Cl. 53-551.000.
Cheung, Nelson, 4,707,390, Cl. 428-57.000.
Figiel, Janusz; Tremper, Donald; and Lems, Peter, 4,683,017, Cl. 156-73.100.
Kobiella, Robert J., 4,661,185, Cl. 156-212.000.
Lems, Peter, 4,654,878, Cl. 383-37.000.
McMahon, Michael J.; and Johnson, Leonard E., 4,660,716, Cl. 206-216.000.
Van Erden, Donald; and Noren, Donald W., 4,666,536, Cl. 156-64.000.
Van Erden, Donald L.; and Ausnit, Steven, 4,663,915, Cl. 53-450.000.

Signode Paper Products Company: *See*—
Liebel, Henry L., 4,708,247, Cl. 206-501.000.

Signor, Robert G. Line viewer. 4,641,444, 2-10-87, Cl. 40-352.000.

Signorelli, John A. Protecting and sealing cap. 4,676,084, 6-30-87, Cl. 70-440.000.

Signorelli, John A.: *See*—
Wright, Norman D.; Glanzner, Gary C.; and Signorelli, John A., 4,667,597, Cl. 101-425.000.

Signoret, Jacques, to ABG Semca. Method of air conditioning and air-conditioner for carrying out the same. 4,665,715, 5-19-87, Cl. 62-402.000.

Signorini, Ernesto: *See*—
Camaggi, Giovanni; Gozzo, Franco; Signorini, Ernesto; and Palla, Ottorino, 4,702,762, Cl. 71-90.000.

Palla, Ottorino; Camaggi, Giovanni; Gozzo, Franco; Menconi, Augusto; and Signorini, Ernesto, 4,661,599, Cl. 548-146.000.

Signorini, Roberto: *See—*
Verga, Alberto; and Signorini, Roberto, 4,652,654, Cl. 548-217.000.

Signtech Inc.: *See—*
Gandy, James, 4,674,214, Cl. 40-603.000.
Gandy, James, 4,692,847, Cl. 362-152.000.

Sigoloff, Jerome A., to Sidney Rich Associates, Inc. Footwear sole construction. 4,712,314, 12-15-87, Cl. 36-112.000.

Sigri GmbH: *See—*
Debrodt, Heiner; Kluger, Petra; and Lieberoth, Dieter, 4,663,010, Cl. 204-293.000.
Kandzia, Ulrich, 4,639,930, Cl. 373-120.000.
Kraus, Gunter, 4,691,324, Cl. 373-91.000.
Kuhn, Heinrich; Stitz, Olaf; and Wimmer, Karl, 4,716,572, Cl. 373-88.000.
Kunzel, Jurgen, 4,651,655, Cl. 110-345.000.
Semmler, Jurgen, 4,641,321, Cl. 373-120.000.
Tetzlaff, Ernst, 4,698,189, Cl. 264-22.000.

Sigurdsson, Per A.: *See—*
Bjorck, Conny; and Sigurdsson, Per A., 4,697,743, Cl. 241-5.000.

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Chien, Sze-Foo; Redus, Clifford L.; and Sigwardt, Peter L., 4,681,466, Cl. 374-42.000.

Sih, Charles J. Process for preparing a compound for use in the production of L-carnitine. 4,642,290, 2-10-87, Cl. 435-128.000.

Sih, Charles J., to Sigma-Tau Industrie Pharmaceutiche Riunite S.p.A. Process for preparing L-carnitine and chemical intermediates employed therein. 4,710,468, 12-1-87, Cl. 435-135.000.

Sihi GmbH & Co. KG: *See—*
Auschrat, Siegfried, 4,634,348, Cl. 417-68.000.
Auschrat, Siegfried, 4,685,865, Cl. 417-68.000.
Segebrecht, Udo; and Auschrat, Siegfried, 4,710,105, Cl. 417-68.000.

Sihlanick, Mark M.: *See—*
Childress, Jeffrey S.; Sihlanick, Mark M.; Smith, Michael W.; and Morgan, Peyton L., III, 4,658,435, Cl. 455-17.000.

Sihto, Reijo: *See—*
Raninen, Jaakko; Savioja, Heikki; Koivula, Antti; Saariaho, Jorma; Sihto, Reijo; and Valimaki, Yrjo, 4,641,466, Cl. 52-171.000.

Sii Megadiamond, Inc.: *See—*
Horton, M. Duane; and Peterson, Gary R., 4,664,705, Cl. 75-243.000.

Siino, Horace J. Wilderness survival tool. 4,688,287, 8-25-87, Cl. 7-118.000.

Sijbers, Peter J. M., to U.S. Philips Corporation. Telephone circuit with a class-B amplifier output stage. 4,649,235, 3-10-87, Cl. 379-348.000.

Sijbers, Peter J. M.; Otten, Henricus J. M.; and Van Der Plaats, Petrie J., to U.S. Philips Corporation. Audio transmission circuit comprising a transmit amplifier in the form of a line voltage stabilizer. 4,680,789, 7-14-87, Cl. 379-395.000.

Sipsling, Dirk, to F. Kurt Retsch GmbH & Co. KG. Fine grinding apparatus for laboratory experiments. 4,688,727, 8-25-87, Cl. 241-56.000.

Sika AG, vorm. Kaspar Winkler & Co.: *See—*
Burge, Theodor A.; and Schweizer, Reinhard, 4,686,252, Cl. 524-3.000.

Sikanai, Naoki, to Hitachi, Ltd. Dot pattern generating system. 4,676,677, 6-30-87, Cl. 400-121.000.

Sike, Valeria: *See—*
Szemler, Laszlo; Pechany, Eva C.; Langer, Maria; Hruby, Gyula; and Sike, Valeria, 4,659,661, Cl. 435-86.000.

Sikich, Joseph P.; and Duncombe, Richard R., to Hewlett-Packard Company. Integrated circuit memory cell array using a segmented word line. 4,695,981, 9-22-87, Cl. 365-227.000.

Sikina, Thomas V.: *See—*
Sloane, Maurice W.; and Sikina, Thomas V., 4,684,970, Cl. 357-35.000.

Sikkenga, David L., to Amoco Corporation. Halided alumina catalyst. 4,642,301, 2-10-87, Cl. 502-231.000.

Sikkenga, Jan: *See—*
van de Klundert, Louis J. M.; ten Kate, Herman H. J.; Sikkenga, Jan; Groenenboom, Maarten; and Lisser, Jacques, 4,709,314, Cl. 363-14.000.

Siklosi, Michael P., to Procter & Gamble Company, The. Higher molecular weight diols for improved liquid cleaners. 4,692,277, 9-8-87, Cl. 252-558.000.

Sikora, David J.: *See—*
Coleman, James P.; Kvakovszky, George; and Sikora, David J., 4,673,508, Cl. 210-698.000.

Sikora, Scott T., to Tomar Electronics, Inc. Automatic control system for a releasable vehicle locking device. 4,648,781, 3-10-87, Cl. 414-401.000.

Sikora, Scott T., to Tomar Electronics, Inc. Single-ended, self-oscillating DC-DC converter for intermittently energized load having V_BE responsive current limit circuit. 4,682,081, 7-21-87, Cl. 315-219.000.

Sikora, Scott T., to Tomar Electronics, Inc. Strobe flash monitor. 4,701,672, 10-20-87, Cl. 315-241.00S.

Sikorski, James A.: *See—*
Dutra, Gerard A.; and Sikorski, James A., 4,666,500, Cl. 71-87.000.

Sikorski, James F., to Controlled Hydraulics, Inc. Electrically controlled transmisssion soft shifter. 4,674,613, 6-23-87, Cl. 192-52.000.

Siku GmbH: *See—*
Bucher, Anton; Simon, Peter; and King, Wilhelm, 4,668,118, Cl. 403-272.000.

Silber, Arthur L. Anti-ulceration bandage. 4,669,460, 6-2-87, Cl. 128-149.000.

Silberberg, Joseph: *See—*
Jung, Alfred K.; Silberberg, Joseph; and Weil, Edward D., 4,714,724, Cl. 524-100.000.

Silbering, Steven B.; Nesbitt, Russell U.; and Fawzi, Mahdi B., to Warner-Lambert Company. Thrombin preparations. 4,696,812, 9-29-87, Cl. 424-445.000.

Silberling, Peter W. Floater waterbed. 4,662,010, 5-5-87, Cl. 5-451.000.

Silberman, Gabriel M.: *See—*
Barzilai, Zeev; Iyengar, Vijay S.; and Silberman, Gabriel M., 4,698,830, Cl. 377-19.000.

Silbernagel, Peter. Method of producing film-wrapped packages or packaged units. 4,655,028, 4-7-87, Cl. 53-399.000.

Silbernagel, Peter, to B. Hagemann & Co. Stretch foil wrapping arrangement. 4,711,069, 12-8-87, Cl. 53-556.000.

Silbernagel, Raymond A.; and Funck, Gordon W., to Molex Incorporated. Low profile modular phone jack assembly. 4,698,025, 10-6-87, Cl. 439-79.000.

SILCA S.p.A.: *See—*
Bianchi, Camillo, 4,709,511, Cl. 51-216.00R.

Silchenstedt, Edward F.: *See—*
Bunge, Daniel C.; Cooper, James J.; Willshier, Fred A.; and Silchenstedt, Edward F., 4,675,946, Cl. 17-45.000.

Silcott, Terry L.; and French, Dale T., to Weyerhaeuser Company. Collapsible pallet container and multi-wall fibreboard container therefor. 4,712,687, 12-15-87, Cl. 206-600.000.

Silcox, Ronald W., to B.C. Clean Wood Preservers Ltd. Incisor cleaning system. 4,706,722, 11-17-87, Cl. 144-329.000.

Silcox, William H.: *See—*
Bodine, James A.; Kuehn, Judson S.; and Silcox, William H., 4,681,298, Cl. 251-129.100.

Silder, Stephen H.: *See—*
Ebert, Frederick; Silder, Stephen H.; and Beims, Michael A., 4,655,414, Cl. 244-75.00R.

Silentnight Holdings PLC: *See—*
Woffendin, Arnold, 4,669,247, Cl. 53-116.000.

Siler, G. Daniel, to Dayton Machine Tool Company. Dual pinion anti-backlash carriage drive for a machine tool. 4,714,388, 12-22-87, Cl. 409-146.000.

Silgailis, John; Nathasingh, Davidson M.; and Bruckner, Christopher A., to Allied Corporation. Rapid magnetic annealing of amorphous metal in molten tin. 4,668,309, 5-26-87, Cl. 148-108.000.

Silicon Macrosystems Incorporated: *See—*
Ebel, Mark S., 4,663,740, Cl. 365-185.000.

Silicon Systems, Inc.: *See—*
Fukahori, Kiyoshi; and Glad, Thomas, 4,691,172, Cl. 330-129.000.

Silicon Technology Corporation: *See—*
Steere, Robert; and Lewandowski, Thomas, 4,638,601, Cl. 51-165.710.

Silicon Valley Group, Inc.: *See—*
Soares, Paul, 4,700,595, Cl. 82-40.00R.

Siliconix Incorporated: *See—*
Blanchard, Richard A.; and Plummer, James D., 4,682,405, Cl. 29-571.000.
Blanchard, Richard A., 4,707,909, Cl. 437-109.000.
Cogan, Adrian I., 4,716,126, Cl. 437-24.000.
Hill, Lorimer K., 4,674,020, Cl. 363-21.000.

Siligoni, Marco; Lari, Ferdinando; Saviotti, Vanni; and Commo, Vittorio, to SGS-ATES Componenti Elettronici S.p.A. Monolithically integratable telephone circuit for generating control signals for displaying telephone charges. 4,638,122, 1-20-87, Cl. 379-124.000.

Siligoni, Marco; and Consiglio, Pietro, to SGS-ATES Componenti Elettronici S.p.A. High precision voltage-to-current converter, particularly for low supply voltages. 4,647,839, 3-3-87, Cl. 323-312.00.

Siligoni, Marco; and Murari, Bruno, to SGS-ATES Componenti Elettronici S.p.A. Differential stage particularly for active filters. 4,661,780, 4-28-87, Cl. 330-254.000.

Siligoni, Marco; and Lari, Ferdinando, to SGS Microelettronica S.p.A. Monolithically integratable current adding circuit. 4,668,907, 5-26-87, Cl. 323-316.000.

Siligoni, Marco; and Saviotti, Vanni, to SGS Microelettronica S.p.A. Method and apparatus for an improved ring trip detection telephone circuit. 4,677,664, 6-30-87, Cl. 379-382.000.

Siligoni, Marco: *See—*
Giorgetta, Valerio; Poletta, Vanni; Sartori, Mario; and Siligoni, Marco, 4,673,830, Cl. 307-297.000.

Silke, Deborah: *See—*
Lande, Ellen B.; and Silke, Deborah, 4,651,366, Cl. 5-98.00R.

Sillaman, Ronald L.; and Block, Gary C., to Pittsburgh Brass Manufacturing Co. Angle ball valve. 4,650,157, 3-17-87, Cl. 251-144.000.

Sillard, Gilles: *See—*
Henry, Raymond; Heitzmann, Michel; and Sillard, Gilles, 4,660,008, Cl. 333-258.000.

Siller, Curtis A., Jr.: *See—*
Debus, Walter, Jr.; Osborne, Thomas L.; and Siller, Curtis A., Jr., 4,710,891, Cl. 364-718.000.

Sillion, Bernard: *See—*
Brunel, Sylvain; Germanaud, Laurent; Le Perchec, Pierre; and Sillion, Bernard, 4,704,229, Cl. 252-352.000.
Denis, Jacques; Sillion, Bernard; Damin, Bernard; and Laupie, Jean-Michel, 4,664,676, Cl. 44-62.000.
Maldonado, Paul; Leger, Robert; Cohen, Choua; and Sillion, Bernard, 4,652,273, Cl. 44-63.000.
Malinge, Jean; Rabilloud, Guy; and Sillion, Bernard, 4,645,821, Cl. 528-331.000.

Sillitto, Hillary G., to Ferranti Plc. Optical viewing apparatus. 4,714,321, 12-22-87, Cl. 350-174.000.
Sillmann, Volker: *See*—
Musolff, Frank; and Sillmann, Volker, 4,673,236, Cl. 439-609.000.
Sillony Company Limited: *See*—
Fujiyama, Seiki; and Lee, Myongho, 4,712,180, Cl. 364-419.000.
Sills, Alexander M.; and Stewart, Graham G. *Schwanniomyces castellii* strains and brewing process. 4,676,986, 6-30-87, Cl. 426-29.000.
Sills, Allan W. Measuring equipment. 4,693,010, 9-15-87, Cl. 33-147.00L.
Sills, James R., to DMI Fabrications Limited. Variable length columns. 4,693,442, 9-15-87, Cl. 248-406.200.
Siltronics, Ltd.: *See*—
Brown, Russell W., 4,647,866, Cl. 330-262.000.
Carr, Francis, 4,712,112, Cl. 343-788.000.
Silva, James M., to General Electric Company. Method for making reaction products of phosgene and dihydric phenol. 4,701,544, 10-20-87, Cl. 558-281.000.
Silva, James M.: *See*—
Kosky, Philip G.; Silva, James M.; Brunelle, Daniel J.; and Shannon, Thomas G., 4,649,210, Cl. 558-265.000.
Silva, Julio C.; Gauto, Ubirajara; and Novicki, Rubens E. M., to Petroleo Brasileiro S.A. - Petrobras. Process for the retorting of hydrocarbon-containing solids. 4,707,248, 11-17-87, Cl. 208-409.000.
Silva, Lawrence H.: *See*—
Lawrence, Ventura J.; Metcalf, Charles G.; and Silva, Lawrence H., 4,640,367, Cl. 172-225.000.
Silva, Pedro T.: *See*—
Michaels, Sid; and Silva, Pedro T., 4,665,848, Cl. 112-121.260.
Silva, Robert E. System and method of delivering low/pressure/low temperature fluids into high pressure/high temperature heat exchangers by means of alternate pressure equalization. 4,686,831, 8-18-87, Cl. 60-645.000.
Silva, Robert M.: *See*—
Neumann, Irving H.; Stobb, Walter J.; Silva, Robert M.; and Thumm, Klaus A., 4,636,139, Cl. 414-786.000.
Silver, Alexander, to Garrett Corporation, The. Foil bearing surfaces and method of making same. 4,654,939, 4-7-87, Cl. 29-149.50A.
Silver, Arnold H., to TRW Inc. Superconducting analog-to-digital converter and digital magnetometer and related method for its use. 4,672,359, 6-9-87, Cl. 340-347.0AD.
Silver, Arnold H.: *See*—
Phillips, Richard R.; Sandell, Robert D.; and Silver, Arnold H., 4,646,060, Cl. 340-347.0AD.
Silver, Brian H.: *See*—
Dunn, William J.; and Silver, Brian H., 4,691,557, Cl. 73-32.00A.
Silver Brothers Limited: *See*—
Frey, Otto, 4,687,488, Cl. 623-22.000.
Silver, Bruce R., to Polaroid Corporation. Electronic imaging camera for recording either moving or still images. 4,691,253, 9-1-87, Cl. 360-33.100.
Silver, Frederick A.; Berg, Richard A.; Birk, David E.; Weadock, Kevin; and Whyne, Conrad, to University of Medicine & Dentistry of New Jersey. Biodegradable matrix and methods for producing same. 4,703,108, 10-27-87, Cl. 530-356.000.
Silver, Jack: *See*—
Hider, Robert C.; Kontoghiorghes, George; Silver, Jack; and Stockham, Michael A., 4,650,793, Cl. 514-188.000.
Hider, Robert C.; Kontoghiorghes, George; Silver, Jack; and Stockham, Michael A., 4,665,064, Cl. 514-184.000.
Hider, Robert C.; Kontoghiorghes, George; Silver, Jack; and Stockham, Michael A., 4,666,927, Cl. 514-350.000.
Silver Seiko Ltd.: *See*—
Yoshino, Shigeru; Ueki, Junzo; Shibuya, Ichiro; Kawada, Shigeo; Iino, Akira; Tanzaki, Hiromasa; and Murano, Kazuo, 4,670,979, Cl. 29-838.000.
Yoshino, Shigeru, 4,682,932, Cl. 414-744.00A.
Silverberg, Eric C.: *See*—
Krewalk, John J.; and Silverberg, Eric C., 4,682,091, Cl. 318-685.000.
Silverberg, Michael, to ANT Nachrichtentechnik GmbH. Method for compatible increase in resolution for color television transmission systems with reduction of cross-talk noise in motion adaptive picture processing. 4,670,773, 6-2-87, Cl. 358-12.000.
Silverberg, Morton. Plural belt document feeder. 4,634,112, 1-6-87, Cl. 271-245.000.
Silverberg, Morton, to Xerox Corporation. Plural speed belt document feeder. 4,666,144, 5-19-87, Cl. 271-270.000.
Silverbush, Jerome, to New York Telephone Company. Telephone pay station and circuit therefor. 4,685,126, 8-4-87, Cl. 379-146.000.
Silverman, Bernard: *See*—
Mottus, Edward H.; Hedrick, Ross M.; and Silverman, Bernard, 4,672,085, Cl. 524-718.000.
Mottus, Edward H.; Hedrick, Ross M.; and Silverman, Bernard, 4,694,039, Cl. 524-718.000.
Silverman, Eugene B.; Simmons, Richard K.; and Croston, Robert B., to Advanced Resource Development Corporation. Remote control mobile surveillance system. 4,709,265, 11-24-87, Cl. 358-108.000.
Silverman, Eugene N.: *See*—
Bogdan, Eugene A.; and Silverman, Eugene N., 4,657,584, Cl. 75-5.000.
Silverman, Harold: *See*—
Irvine, Robert; Merserereau, Robert E.; Roetter, Frank T.; and Silverman, Harold, 4,688,708, Cl. 225-100.000.
Silverman, Michael B.: *See*—
Goodwin, Paul G.; Silverman, Michael B.; and Beck, George A., 4,654,846, Cl. 371-8.000.
Silverman, Michael D. Submersible personal stereo. 4,683,587, 7-28-87, Cl. 381-25.000.
Silverman, Milton J., Sr. Combination vehicle assembly. 4,650,018, 3-17-87, Cl. 180-14.700.
Silverman, Richard A.: *See*—
Baker, Thomas E.; Krasnow, S. Bert; and Silverman, Richard A., 4,658,332, Cl. 361-398.000.
Silverman, Stephen E., to Compusonics, Inc. Method for detecting suicidal predisposition. 4,675,904, 6-23-87, Cl. 381-41.000.
Silverman, William: *See*—
Finer, Paul; Wahl, Robert O.; and Silverman, William, 4,646,341, Cl. 378-207.000.
Silvernail, James M.; and Schneider, Dallas J., to FSI Corporation. Wafer processing machine. 4,664,133, 5-12-87, Cl. 134-99.000.
Silvernail, James M.; and Schneider, Dallas J., to FSI Corporation. Wafer processing machine. 4,682,614, 7-28-87, Cl. 134-99.000.
Silvernail, James M.; and Miller, Clifford C., to FSI Corporation. Bowl for liquid spray processing machine. 4,691,722, 9-8-87, Cl. 134-155.000.
Silvers, Kenneth W.: *See*—
McKenna, William J.; Silvers, Kenneth W.; Nickerson, Rand B.; Welsh, Russell J.; Walker, Harold R.; Cullity, Joseph A.; and Stryzak, Bohdan, 4,658,290, Cl. 358-84.000.
Silversides, David W.; Mapletoft, Reuben J.; Murphy, Bruce D.; and Misra, Vikram, to University of Saskatchewan. Monoclonal antibodies against GnRH. 4,676,981, 6-30-87, Cl. 424-85.000.
Silverstein, Fred E.; and Opie, Eric A., to Opielab, Inc. Protective endoscope sheath and method of installing same. 4,646,722, 3-3-87, Cl. 128-4.000.
Silverstein, Irwin B.: *See*—
Berger, Abe; and Silverstein, Irwin B., 4,645,844, Cl. 548-545.000.
Silverstein, Saul J.: *See*—
Axel, Richard; Wigler, Michael H.; and Silverstein, Saul J., 4,634,665, Cl. 435-68.000.
Silverstein, Seth D.: *See*—
Zinser, Richard L., Jr.; Silverstein, Seth D.; and Koch, Steven R., 4,649,505, Cl. 379-411.000.
Silverstrone, Catherine A. Cleaning tool. 4,703,538, 11-3-87, Cl. 15-104.00R.
Silverthorn, Gideon C., to Canada, Her Majesty the Queen in right of Automated production of canisters. 4,714,486, 12-22-87, Cl. 55-316.000.
Silverthorne, Daniel F.; Hare, Claude H. M.; and Hall, Dale. Garage door screen enclosure. 4,673,019, 6-16-87, Cl. 160-268.00R.
Silverwater, Bernard, to Pall Corporation. Pressure indicating device. 4,651,670, 3-24-87, Cl. 116-268.000.
Silverwater, Bernard, to Pall Corporation. Flow sensing device. 4,688,433, 8-25-87, Cl. 73-861.530.
Silvester, Richard. Thrust augmenter. 4,666,411, 5-19-87, Cl. 440-66.000.
Silvestri, Frank, to Taylor, Greg. Drum skin tightening arrangement. 4,694,726, 9-22-87, Cl. 84-413.000.
Silvestri, George J., Jr., to Westinghouse Electric Corp. Moisture pre-separator for a steam turbine exhaust. 4,673,426, 6-16-87, Cl. 55-457.000.
Silvestri, Giuseppe; Gambino, Salvatore; and Filardo, Giuseppe, to Consiglio Nazionale Delle Ricerche. Process for the electrocarboxylation of carbonyl compounds, for producing α-hydroxycarboxylic acids. 4,708,780, 11-24-87, Cl. 204-59.00R.
Silvestri, Luigi: *See*—
Bertotti, Franco; Ferrari, Paolo; Silvestri, Luigi; and Villa, Flavio, 4,663,647, Cl. 357-51.000.
Silvestri, Victor J.; and Tang, D. Duan-Lee, to International Business Machines Corporation. Method for forming a void free isolation pattern and resulting structure. 4,689,656, 8-25-87, Cl. 357-49.000.
Silvestri, Victor J.: *See*—
Beyer, Klaus D.; and Silvestri, Victor J., 4,680,614, Cl. 357-50.000.
Silvestrini, Thomas A., to Pfizer-Hospital Products Group, Inc. Fixation device for a ligament or tendon prosthesis. 4,708,132, 11-24-87, Cl. 128-92.0YF.
Silvey, E. Ray. Saw chain depth gauge grinder. 4,643,050, 2-17-87, Cl. 76-25.00A.
Silvey, Frank C., to Mobil Oil Corporation. De-entrainment chimney and method of operation. 4,698,138, 10-6-87, Cl. 203-91.000.
Silva, Dana. Cleat cover. 4,685,500, 8-11-87, Cl. 150-52.00R.
Silvian, Sergiu, to Siemens-Pacesetter, Inc. Analog and digital telemetry system for an implantable device. 4,681,111, 7-21-87, Cl. 128-419.0PT.
Silvis, H. Craig; Berman, Jody R.; and White, Jerry E., to Dow Chemical Company, The. Polyhydroxyethers from hydroxybiphenyls. 4,647,648, 3-3-87, Cl. 528-102.000.
Silvis, H. Craig; and Morgan, Ted A., to Dow Chemical Company, The. Polyhydroxy ethers containing spirobiindanols. 4,672,102, 6-9-87, Cl. 528-97.000.
Silvis, Harry C.; and Mendoza, Abel, to Dow Chemical Company, The. Brominated epoxyaromatic compounds. 4,661,644, 4-28-87, Cl. 568-723.000.
Silvis, Salvatore J., to Colgate-Palmolive Company. Continuous extraction apparatus and process. 4,668,398, 5-26-87, Cl. 210-634.000.
Silvus, H. Stanley, Jr.: *See*—
Moyer, Mark C.; Perry, William D.; Silvus, H. Stanley, Jr.; Gibson, William C.; and Kusenberger, Felix N., deceased, 4,675,604, Cl. 324-220.000.

Silvy, Dorrel R.; Baumann, Todd D.; and Bracht, Roger R., to Optotech, Inc. Objective lens focus initialization system. 4,700,056, 10-13-87, Cl. 250-201.000.

Silzle, Siegfried. Airplane hangar. 4,697,392, 10-6-87, Cl. 52-65.000.

Sim, Teik P.: *See*—
Richardson, Elvet M.; and Sim, Teik P., 4,680,941, Cl. 62-184.000.

Sima Products Corporation: *See*—
Breslau, Steven M., 4,687,309, Cl. 354-82.000.

Simada, Tamotu: *See*—
Kambara, Hideki; Tokita, Jirou; Simada, Tamotu; and Watanabe, Ken'ichi, 4,675,095, Cl. 204-299.00R.

Siman, Jaime E., to Westinghouse Electric Corp. Magnetic core and methods of consolidating same. 4,648,929, 3-10-87, Cl. 156-188.000.

Siman, Jaime E., to Westinghouse Electric Corp. Consolidated magnetic core containing amorphous metal. 4,707,678, 11-17-87, Cl. 336-210.000.

Simanainen, Jyrki, to Enso-Gutzeit Oy. Drum press. 4,683,816, 8-4-87, Cl. 100-121.000.

Simancik, Carl D., to General Motors Corporation. Transmission selector lever assembly. 4,660,443, 4-28-87, Cl. 74-878.000.

Simanowitz, Solly. Credit card alarm. 4,692,745, 9-8-87, Cl. 340-568.000.

Simanski, Edward G. Piano keyboard shield. 4,679,482, 7-14-87, Cl. 84-467.000.

Simasaki, Masuo, to DIA Vacuum Bottle Industrial Co., Ltd. Stopper of liquid container. 4,676,411, 6-30-87, Cl. 222-517.000.

Simay, Stephen. Internal combustion engine with dual combustion chambers. 4,669,431, 6-2-87, Cl. 123-193.00P.

Simbal, John J., to Minnesota Mining and Manufacturing Company. Ultra-wide angle micrographic lens. 4,682,863, 7-28-87, Cl. 350-463.000.

Simbal, John J., to Minnesota Mining and Manufacturing Company. Image mask for microfiche. 4,688,911, 8-25-87, Cl. 353-97.000.

Simco Company, Inc., The: *See*—
Blitshteyn, Mark; Rodrigo, Richard D.; and Wright, William S., 4,665,462, Cl. 361-213.000.
Blitshteyn, Mark; and Wright, William S., 4,716,371, Cl. 324-457.000.

Simcox, Allan W., to Environmental Resources, Inc. Solar heat exchange system. 4,709,689, 12-1-87, Cl. 126-448.000.

Simcox, G. K.: *See*—
Glavish, H. F.; Denholm, A. S.; and Simcox, G. K., 4,667,111, Cl. 250-492.200.

Simcox, Graham W.: *See*—
Moore, Alan R.; Simcox, Graham W.; and Thomas, Allan K., 4,703,567, Cl. 361-417.000.

Simelunas, William J.; Shoiket, Henry N.; and Espejo, Celso. Automatic direct soft cookie loading apparatus. 4,662,152, 5-5-87, Cl. 53-246.000.

Simelunas, William J.; and Polifroni, Nicholas R., to Nabisco Brands, Inc. Apparatus for producing laminated products. 4,679,496, 7-14-87, Cl. 99-450.200.

Simelunas, William J., to Nabisco Brands, Inc. Die head for converting a co-extruder apparatus. 4,687,429, 8-18-87, Cl. 425-192.00R.

Simes-Senco, S.A.: *See*—
Lucas Huerta, Antonio, 4,653,548, Cl. 140-119.000.

SIMES, Societa Italiana Medicinali e Sinetetici S.p.A.: *See*—
Casagrande, Cesare; and Santangelo, Francesco, 4,673,671, Cl. 514-80.000.
Ferrari, Giorgio; and Vecchietti, Vittorio, 4,683,245, Cl. 514-652.000.

Simes, Societa Italiana Medicinali e Sintetici S.p.A: *See*—
Casagrande, Cesare; Mussini, Emilio; and Vecchietti, Vittorio, 4,644,004, Cl. 514-332.000.

SIMES, Societa Italiana Medicinali e Sintetici S.p.A.: *See*—
Virno, Michele, 4,647,590, Cl. 514-651.000.

SIMESA-Societa Italiana Montaggi e Servizi Affini S.p.A.: *See*—
Domenighetti, Domenico, 4,655,636, Cl. 404-117.000.
Domenighetti, Domenico, 4,682,908, Cl. 404-84.000.

Simeth, Claus, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Sheet gripper system for a printing press. 4,697,512, 10-6-87, Cl. 101-142.000.

Simeth, Claus: *See*—
Greiner, Harry M.; and Simeth, Claus, 4,664,949, Cl. 427-210.000.
Greiner, Harry M.; Fischer, Hermann; and Simeth, Claus, 4,665,824, Cl. 101-426.000.

Simier, Jean-Noel: *See*—
Nardi, Alain; and Simier, Jean-Noel, 4,690,800, Cl. 422-40.000.

Simig, Gyula: *See*—
Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.

Simila, Eric J. Beverage container cooler. 4,638,645, 1-27-87, Cl. 62-457.000.

Similia, Joseph: *See*—
Bauer, Ralph; Khaund, Arup K.; Trischuk, Ronald W.; and Similia, Joseph, 4,657,754, Cl. 423-625.000.

Simington, Jack F., to Simington Products Company. Livestock head holder. 4,702,200, 10-27-87, Cl. 119-99.000.

Simington Products Company: *See*—
Simington, Jack F., 4,702,200, Cl. 119-99.000.

Simionato, Paolo, to Simionato S.r.l. Macchine Confezionatrici. Step feed device for bag filling machines. 4,660,356, 4-28-87, Cl. 53-551.000.

Simionato S.r.l. Macchine Confezionatrici: *See*—
Simionato, Paolo, 4,660,356, Cl. 53-551.000.

Simione, Frank P.: *See*—
Daggett, Pierre-Marc; and Simione, Frank P., 4,672,037, Cl. 435-253.000.

Simison, Paul C., to Honeywell Inc. Programmable digital hysteresis circuit. 4,686,640, 8-11-87, Cl. 364-571.000.

Simitchiev, Dilyan L.: *See*—
Stambolov, Lyuben K.; Chaushev, Sotir Y.; and Simitchiev, Dilyan L., 4,678,615, Cl. 261-111.000.

Simitomo Rubber Industries, Ltd.: *See*—
Tominaga, Ichiro; and Sasaki, Teruo, 4,687,205, Cl. 273-169.000.

Simizu, Jyosei: *See*—
Iida, Muneo; Simizu, Jyosei; Suzuki, Masami; Okamoto, Nobuyuki; Kazama, Toshinori; Honda, Masanobu; Mochida, Jiro; Tada, Seiji; and Fujii, Masayuki, 4,660,110, Cl. 360-98.000.

Simjian, Luther G., to Command Automation, Inc. Golf practice putting device. 4,634,130, 1-6-87, Cl. 273-176.0FA.

Simjian, Luther G., to Command Automation, Inc. Exercise apparatus. 4,638,996, 1-27-87, Cl. 272-146.000.

Simkens, Marcellus C. P. L. Device for making ice cubes. 4,641,501, 2-10-87, Cl. 62-188.000.

Simkin, Joseph: *See*—
Dahl, Gerd H.; and Simkin, Joseph, 4,670,246, Cl. 424-419.000.

Simkins, Philip P., to Hewitt, Steven W., a part interest. Display case for fragrance bottles, jewelry, or the like, and hinge used therein. 4,681,216, 7-21-87, Cl. 206-45.130.

Simkins, Philip P., to Hewitt, Steven W., a part interest. Display case for fragrance bottles, jewelry, or the like. 4,684,016, 8-4-87, Cl. 206-45.130.

Simko, Aladar O., to Ford Motor Company. Low friction high speed rocker arm. 4,682,575, 7-28-87, Cl. 123-90.440.

Simko, Joseph. Method and apparatus for forming ladle well blocks. 4,715,585, 12-29-87, Cl. 266-273.000.

Simko, Vlado, to State University of New York, The. High-calorie high-fat dietary formula. 4,690,820, 9-1-87, Cl. 424-128.000.

Simkovich, George, to Pennsylvania Research Corporation. Oxidation resistant alloy. 4,711,665, 12-8-87, Cl. 75-244.000.

Simm, Hans-Peter: *See*—
Ahlf, Heinz-Jurgen; Guhne, Wieland; Simm, Hans-Peter; and Wulf, Peter, 4,685,170, Cl. 15-367.000.
Ahlf, Heinz-Jurgen; Guhne, Wieland; Simm, Hans-Peter; and Wulf, Peter, 4,696,076, Cl. 15-415.00R.

Simm, Walter: *See*—
Weber, Gunter; Dicke, Hans-Rudolf; Vogelsgesang, Roland; Simm, Walter; and Brinkmeyer, Hermann, 4,668,448, Cl. 264-22.000.

Simm, Wolfgang; and Steine, Hans-Theo, to Castolin S.A. Heat spraying material and manufacturing process thereof. 4,681,734, 7-21-87, Cl. 419-9.000.

Simm, Wolfgang: *See*—
Oeschsle, Manfred; Szieslo, Uwe; Streb, Karl-Peter; and Simm, Wolfgang, 4,711,627, Cl. 431-30.000.

Simmat, Fritz: *See*—
Kreutzer, Karl; and Simmat, Fritz, 4,666,495, Cl. 65-258.000.
Ross, Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, Karl-Friedrich; Muhlich, Albert; Rau, Karlheinz; Ruffing, Wolfgang; Simmat, Fritz; Steinkohl, Anton; and Takke, Ralf, 4,676,814, Cl. 65-3.120.

Simmel, Thomas: *See*—
Luperti, Harry E.; Person, Eric N.; and Simmel, Thomas, 4,715,164, Cl. 53-381.00R.

Simmel, Thomas L.; Crossley, David W.; and Morehouse, Mark N.; McDarren, Robert S.; Piels, Barry Y.; and Simmel, Thomas L. Battery-powered small-scale toy vehicle. 4,695,267, 9-22-87, Cl. 446-462.000.

Simmler, Werner: *See*—
Habermann, Wolfgang; Pommer, Ernst-Heinrich; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Simmler, Werner; and Huber, Guenther, 4,670,360, Cl. 429-33.000.
Habermann, Wolfgang; Hammes, Peter; Engelhardt, Hubert; Geiger, Wolfgang; Haltrich, Walter; and Simmler, Werner, 4,696,749, Cl. 210-721.000.

Simmonds Precision: *See*—
Bennett, George D., 4,637,943, Cl. 428-35.000.
Goehner, Robert D.; Glover, Norman I.; and Hensley, Donald G., 4,678,144, Cl. 244-134.00R.
Vaiden, John C., 4,637,501, Cl. 192-20.000.

Simmonds Precision Products, Inc.: *See*—
Ellinger, S. Michael, 4,677,305, Cl. 250-577.000.
Ramsdale, Kurt A.; and Coffman, Keith E., 4,706,203, Cl. 364-509.000.
Spillman, William B., Jr., 4,709,145, Cl. 250-227.000.
Spillman, William B., Jr., 4,712,004, Cl. 250-227.000.

Simmonds, Robert C., Jr.; Gilbride, Andrew J.; and Morse, Albert L., to USM Corporation. Linear deposition apparatus. 4,650,538, 3-17-87, Cl. 156-578.000.

Simmonds, Robert C., Jr.; Gilbride, Andrew J.; and Morse, Albert L., to USM Corporation. Linear deposition apparatus. 4,661,198, 4-28-87, Cl. 156-578.000.

Simmonds, Robert C., Jr.; Crowell, Douglas H.; and Martin, John F., to USM Corporation. Powder reinforcing laminate apparatus. 4,681,650, 7-21-87, Cl. 156-378.000.

Simmonds S.A.: *See*—
Baglin, Michel, 4,669,141, Cl. 10-86.00A.

Simmons, Arturo; Walsh, Shawn T.; and Roberts, Charles G., to Texas Instruments Incorporated. Electrostatic discharge protection using thin nickel fuse. 4,714,949, 12-22-87, Cl. 357-23.130.
Simmons, Billy R., to Crews, Nancy B., a part interest. Rod holder. 4,637,136, 1-20-87, Cl. 43-21.200.
Simmons, Charles L.: *See—*
Gullett, Larry L.; and Simmons, Charles L., 4,676,821, Cl. 71-28.000.
Simmons, Dennis L. Pluggable electrical connector. 4,657,334, 4-14-87, Cl. 339-166.00R.
Simmons Fastener Corporation: *See—*
Hoen, Cuyler, 4,657,462, Cl. 411-552.000.
Macfee, Frederick J., Jr.; and Pufpaff, Frederick J., 4,647,263, Cl. 411-82.000.
Simmons, George H.: *See—*
Kocan, Kristin F.; and Simmons, George H., 4,651,316, Cl. 370-85.000.
Simmons, Graham. Binder for articles such as books and cassettes. 4,682,792, 7-28-87, Cl. 281-45.000.
Simmons, Howard E., III. Optical recording element. 4,681,836, 7-21-87, Cl. 430-270.000.
Simmons, James A., to Bio-Dynamics Research & Development Corporation. Apparatus and method for analyzing acoustical signals. 4,640,134, 2-3-87, Cl. 73-648.000.
Simmons, John J. Utilization of low rank coal and peat. 4,705,533, 11-10-87, Cl. 44-51.000.
Simmons, Lacy. Apparatus for electrically stunning poultry. 4,694,534, 9-22-87, Cl. 17-1.00E.
Simmons, Lacy. Post stunner for poultry. 4,694,535, 9-22-87, Cl. 17-1.00E.
Simmons, Lacy. Poultry oil sac removal method and apparatus. 4,707,886, 11-24-87, Cl. 17-45.000.
Simmons, Lois M. Massage implement. 4,648,387, 3-10-87, Cl. 128-57.000.
Simmons, Lowell E.: *See—*
Johnson, Randall E.; Peters, Louis E.; and Simmons, Lowell E., 4,657,621, Cl. 156-345.000.
Simmons, Mark H. Yarn dispensing device. 4,676,443, 6-30-87, Cl. 242-54.00R.
Simmons Nominees Pty. Ltd.: *See—*
Simmons, Thomas E., 4,707,496, Cl. 514-531.000.
Simmons Outdoor Corporation: *See—*
Mise, Minoru, 4,669,833, Cl. 350-558.000.
Simmons, Richard K.: *See—*
Silverman, Eugene B.; Simmons, Richard K.; and Croston, Robert B., 4,709,265, Cl. 358-108.000.
Simmons, Richard M., to Telelogic, Inc. Call-routing device. 4,645,879, 2-24-87, Cl. 379-355.000.
Simmons, Richard R.: *See—*
Chadwick, Curt H.; Shulenberger, Art M.; Taylor, John S.; and Simmons, Richard R., 4,639,587, Cl. 250-201.000.
Simmons, Robert L., Sr.; and Wyant, Clifton M., to Ametek, Inc. Phased array Doppler sonar transducer. 4,641,291, 2-3-87, Cl. 367-157.000.
Simmons, Ronald G. Adapters for golf shoes. 4,682,425, 7-28-87, Cl. 36-44.000.
Simmons, Ronald G. Golf shoes. 4,685,227, 8-11-87, Cl. 36-127.000.
Simmons, Thomas E., to Simmons Nominees Pty. Ltd. Insect repellent soap composition. 4,707,496, 11-17-87, Cl. 514-531.000.
Simmons Universal Corporation: *See—*
Brunner, Merlin A.; Draheim, Harvey J.; and Charlson, Glenn T., 4,703,524, Cl. 5-93.00R.
Hayton, Eugene P.; Peters, Gerald; and Failor, Raymond A., 4,651,364, Cl. 5-60.000.
Peters, Gerald; Hayton, Eugene P.; and Failor, Raymond A., 4,641,385, Cl. 5-82.00R.
Simms, Graham A., to Hydra-Tight Limited. Bolt tensioning apparatus. 4,659,065, 4-21-87, Cl. 254-29.00A.
Simms, Robert A. Bioluminescent simulator and method. 4,697,374, 10-6-87, Cl. 43-17.500.
Simo, Donald M., to Scott & Fetzer Company, The. Post valve handle. 4,708,318, 11-24-87, Cl. 251-292.000.
Simo, Miroslav A. Arrowhead. 4,676,512, 6-30-87, Cl. 273-422.000.
Simokat, Frank: *See—*
Eisenhauer, Gary; and Simokat, Frank, 4,653,046, Cl. 370-72.000.
Simola, Markku A.; and Haapoja, Vesa, to Ahlstrom Corp. and Oy Wilh.Schauman AB. Screening apparatus with light reject removal. 4,634,521, 1-6-87, Cl. 209-17.000.
Simomura, Katsuyasu; and Ujiie, Kenji, to Central Glass Company, Limited. Heat treatment furnace for glass. 4,664,692, 5-12-87, Cl. 65-182.200.
Simon, Abraham E. Cartridge filter with plural medias. 4,692,246, 9-8-87, Cl. 210-232.000.
Simon Aerials, Inc.: *See—*
Hornagold, John T.; and Pezewski, Paul, 4,690,246, Cl. 182-2.000.
Simon, Albert B.: *See—*
DeOms, James H.; and Simon, Albert B., 4,699,335, Cl. 244-129.300.
Simon, Alois: *See—*
Jenkins, John B.; Scott, John D.; and Simon, Alois, 4,667,506, Cl. 73-45.200.
Simon, Andre, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Leak detector for the dikes of nuclear cooling ponds. 4,635,477, 1-13-87, Cl. 73-290.00R.
Simon, Antoine: *See—*
Hirth, Antoine; and Simon, Antoine, 4,698,819, Cl. 372-38.000.
Simon, B. Kenneth. Child-resistant container with resistance indicating means. 4,664,273, 5-12-87, Cl. 215-216.000.
Simon-Barron Limited: *See—*
Finch, Maurice, 4,702,746, Cl. 44-14.000.
Simon, Barry A.: *See—*
Flannagan, Stephen T.; Day, Lawrence J.; and Simon, Barry A., 4,716,302, Cl. 307-200.00B.
Simon, Charles R.: *See—*
Wood, John F. B.; Kaiser, Timothy D.; Allyn, Jerome B.; Dykes, Charles D.; Kalaskie, Frank E.; Carmichael, Robert J.; and Simon, Charles R., 4,694,899, Cl. 164-452.000.
Simon, Elizabeth A.: *See—*
Payn, Ward J.; Niemi, Onni W.; McDonald, John V.; Simon, Elizabeth A.; and Leonard, Daniel P., 4,658,122, Cl. 235-101.000.
Simon Engineering Dudley Limited: *See—*
Ashworth, Denis H., 4,687,073, Cl. 182-2.000.
Simon, Ferenc; Romvary, Attila; Varga, Janos; Bozzay, Laszlo; and Bruckner nee Gabor, Edit, to Hajdusag, Agraripari Egyesules. Drug combinations having synergistic effect. 4,650,790, 3-17-87, Cl. 514-39.000.
Simon, Ferenc: *See—*
Perjes, Istvan; Szporny, Laszlo; Selmeczi, Andras; Vereczkey, Laszlo; Klebovich, Imre; Toth, Edit; Hajos, Gyorgy; Torley, Jozsef; Simon, Ferenc; Sarkozy, Peter; and Misley, Attila, 4,659,712, Cl. 514-249.000.
Simon, Francois. Device of the clevis type for handling operations. 4,700,433, 10-20-87, Cl. 24-68.00B.
Simon, Francois Y.: *See—*
Bullock, Donald F.; Simon, Francois Y.; and Farnsworth, Richard G., 4,665,358, Cl. 324-103.00R.
Simon, Gary J., to Velo Bind Inc. Punch pin head structure. 4,700,601, 10-20-87, Cl. 83-687.000.
Simon, Georg N.: *See—*
Heinz, Gerhard; Schuette, Wilhelm; and Simon, Georg N., 4,645,785, Cl. 524-100.000.
Heinz, Gerhard; McKee, Graham E.; Simon, Georg N.; Kleber, Friedrich; and Knoll, Manfred, 4,666,973, Cl. 524-504.000.
Simon, Georges: *See—*
Durant, Jacques; Simon, Georges; and Charton, Alain, 4,708,049, Cl. 89-11.000.
Simon, Georges H.: *See—*
Marcon, Joel M.; Durant, Jacques A.; and Simon, Georges H., 4,704,945, Cl. 89-185.000.
Simon, Gerard: *See—*
Prud'Homme, Christian; and Simon, Gerard, 4,656,301, Cl. 556-472.000.
Prud'Homme, Christian; and Simon, Gerard, 4,661,613, Cl. 556-472.000.
Simon, Hans-Dieter: *See—*
Strate, Hans; and Simon, Hans-Dieter, 4,700,453, Cl. 29-568.000.
Simon, Helmut: *See—*
Maneke, Siegfried; and Simon, Helmut, 4,704,308, Cl. 427-207.100.
Simon, Herbert: *See—*
Ehrlinger, Friedrich J.; Muller, Franz; Simon, Herbert; and Sailer, Hubert, 4,685,343, Cl. 74-331.000.
Simon, Horst; Killguss, Heinrich; and Wisst, Otto, to Eastman Kodak Company. Photographic shutter. 4,668,067, 5-26-87, Cl. 354-246.000.
Simon, Horst: *See—*
Blattner, Dietmar; Dieterle, Hermann; Leutwein, Manfred; and Simon, Horst, 4,698,883, Cl. 29-56.500.
Blattner, Dietmar; Dieterle, Hermann; Leutwein, Manfred; and Simon, Horst, 4,706,370, Cl. 29-564.200.
Simon, Howard E.: *See—*
Roschmann, Peter; and Simon, Howard E., 4,712,067, Cl. 324-318.000.
Simon, Jacques: *See—*
Gain, Robert; Simon, Jacques; Pasturel, Andre; and Roger, Marc, 4,708,836, Cl. 264-40.100.
Simon, Jaime: *See—*
Crump, Druce K.; Simon, Jaime; and Wilson, David A., 4,680,396, Cl. 544-337.000.
Simon, James A., to Eye Pro, Inc. Protective eyewear. 4,701,962, 10-27-87, Cl. 2-15.000.
Simon, James R.: *See—*
Kelly, George G.; McLaughlin, Henry; and Simon, James R., 4,714,017, Cl. 102-275.300.
Simon, Jean-Jacques: *See—*
Caine, Nathanael T.; and Simon, Jean-Jacques, 4,703,473, Cl. 370-15.000.
Simon-Johnson, Inc.: *See—*
Scheier, Donald J., 4,669,148, Cl. 17-11.000.
Simon, Jonathan D. Backsack. 4,674,664, 6-23-87, Cl. 224-215.000.
Simon, Lewis A.; and Scarffe, Michael F., to VS Remek Limited; and LJS Practice Management Limited. Measuring instruments for measuring depth of cavities. 4,677,756, 7-7-87, Cl. 33-514.000.
Simon, Melvin H.: *See—*
Kujawa, Stephen M.; and Simon, Melvin H., 4,638,944, Cl. 237-8.60R.
Simon, Merlin E., to Deere & Company. Utility hauling vehicle having four wheel drive. 4,706,770, 11-17-87, Cl. 180-24.020.
Simon, Myron S.; and Waller, David P., to Polaroid Corporation. Aminoether compounds. 4,636,568, 1-13-87, Cl. 549-13.000.
Simon, Myron S.: *See—*
MacGregor, Paul T.; and Simon, Myron S., 4,656,286, Cl. 548-146.000.

Simon, Nikolaus: *See*—
Ehlen, Ewald; Hofmann, Karl; Holzgrefe, Volker; Pigeroulet, Jean; Rodriguez-Amaya, Nestor; Simon, Nikolaus; Trachte, Dietrich; Weiss, Friedrich; and Ziegler, Ewald, 4,653,455, Cl. 123-506.000.

Simon, Peter: *See*—
Bucher, Anton; Simon, Peter; and King, Wilhelm, 4,668,118, Cl. 403-272.000.

Simon, Pierre: *See*—
Economopoulos, Marios; Lambert, Nicole; Simon, Pierre; and Conti, Rene , 4,668,308, Cl. 148-12.00R.

Simon, Reinhard: *See*—
Puhler, Alfred; Simon, Reinhard; and Priefer, Ursula, 4,680,264, Cl. 435-172.300.
Puhler, Alfred; and Simon, Reinhard, 4,686,184, Cl. 435-172.300.

Simon, Richard: *See*—
Coles, Harry J.; and Simon, Richard, 4,702,558, Cl. 350-330.000.

Simon, Richard L.: *See*—
Lacefield, William B.; and Simon, Richard L., 4,658,061, Cl. 564-180.000.

Simon-Rosedowns Limited: *See*—
Ward, Joseph A., 4,646,631, Cl. 99-483.000.

Simon, Udo. Device for storing and signalling the time for taking drugs. 4,660,991, 4-28-87, Cl. 368-10.000.

Simon, Ulrich; and Beutel, Reiner, to Hoechst Aktiengesellschaft. Process for post-treating aluminum oxide layers with aqueous solutions containing phosphorous anions in the manufacture of offset printing plates with radiation sensitive layer and printing plates therefor. 4,650,739, 3-17-87, Cl. 430-161.000.

Simon, Ulrich; Beutel, Reiner; and Sprintschnik, Gerhard, to Hoechst Aktiengeselischaft. Process for a two-stage hydrophilizing post-treatment of aluminum oxide layers with aqueous solutions and use thereof in the manufacture of supports for offset printing plates. 4,689,272, 8-25-87, Cl. 428-448.000.

Simon, Walter: *See*—
Schwenzer, Michael; Eskam, Armin; Simon, Walter; and Becker, Wilfried, 4,693,434, Cl. 244-328.000.
Wallow, Peter; Gersbach, Klaus; Simon, Walter; Bisping, Bernhard; Montier, Patrick; Moreau, Pierre A.; and Sauvestre, Jean-Claude, 4,702,172, Cl. 102-521.000.

Simon, Werner: *See*—
Elster, Werner; Koch, Horst; Ost, Gustav; Simon, Werner; Deckelmann, Karl; and Taitl, Ino, 4,659,986, Cl. 324-158.00F.

Simonazzi, Adriano. Filling device with interchangeable valve member for cans of different diameters. 4,711,276, 12-8-87, Cl. 141-286.000.

Simonazzi, Andriano. Telescopic filling adapter for bottle filling machines. 4,653,249, 3-31-87, Cl. 53-273.000.

Simonazzi, Andriano. Container filling apparatus with adjustable pressure sealing means. 4,674,547, 6-23-87, Cl. 141-267.000.

Simond, Jacques A.: *See*—
Monteil, Andre J.; Simond, Jacques A.; and Combourieu, Michel, 4,645,778, Cl. 514-422.000.

Simond, Jacques A. L.; Carlier, Patrick; and Monteil, Andre J., to Riom Laboratories C.E.R.M. Aminoethyl-pyridine and pyrazine derivatives. 4,668,679, 5-26-87, Cl. 514-252.000.

Simonds, Gary; Jennings, Thomas P.; and Gallops, Henry, to Kidde Recreation Products, Inc. Crossbow trigger mechanism. 4,693,228, 9-15-87, Cl. 124-25.000.

Simonds, John L.: *See*—
Jeffers, Frederick J.; and Simonds, John L., 4,683,508, Cl. 360-113.000.

Simone, Dominic; and Brauer, Melvin, to CasChem, Inc. Graft polyols. 4,640,801, 2-3-87, Cl. 260-407.000.

Simone, Dominic: *See*—
Woods, William B.; Brauer, Melvin; Duneczky, Francis; Simone, Dominic; and Cope, John F., 4,664,908, Cl. 424-59.000.

Simone, Giovanni; and Orsi, Franco, to Composit System S.r.l. Knot joint for network structures. 4,669,908, 6-2-87, Cl. 403-170.000.

Simoneau, Edward T.: *See*—
Traver, Frank J.; and Simoneau, Edward T., 4,699,988, Cl. 556-425.000.

Simonelli, James K.; and Scheffel, Gary W., to Nupro Company. Metering valve. 4,687,180, 8-18-87, Cl. 251-122.000.

Simonelli, James K.; Scheffel, Gary W.; and Jagielo, Joseph J., to Nupro Company. Metering valve. 4,687,181, 8-18-87, Cl. 251-223.000.

Simonet, Donald E.: *See*—
Anderson, John; Homeyer, Bernhard; Kuhle, Engelbert; Scheinpflug, Hans; Zeck, Walter M.; and Simonet, Donald E., 4,656,163, Cl. 514-84.000.
Zeck, Walter M.; and Simonet, Donald E., 4,690,947, Cl. 514-521.000.

Simonet, Guy: *See*—
Van Wijnendaele, Frans; and Simonet, Guy, 4,649,192, Cl. 530-371.000.
Van Wijnendaele, Frans; Gilles, Daniel; and Simonet, Guy, 4,683,294, Cl. 530-371.000.

Simonetta, Guerrieri: *See*—
Flosi, Corrado; Gobbi, Alberto; Maccioni, Roberto; and Simonetta, Guerrieri, 4,694,505, Cl. 2-2.000.

Simonette, Dallas W.; and Wiener, Bruce A., to Power-Flo Products Corporation. Fountain application handle with refill valve. 4,695,176, 9-22-87, Cl. 401-144.000.

Simonetti, Jean-Pierre, to Outillages Scientifiques et de Laboratories O.S.L. S.A. Heating device for generating a wave of solder in a wave soldering machine. 4,659,003, 4-21-87, Cl. 228-8.000.

Simonetti, John J., to Sangamo Weston, Inc. High temperature plastic scintillators. 4,713,198, 12-15-87, Cl. 252-301.170.

Simonian, Hovsep, to Bristol-Myers Company. Compressed and formed alkaline component suitable for use in buffered aspirin product. 4,664,915, 5-12-87, Cl. 424-128.000.

Simonin, Marcel; Garbe, Bernard; and Carron, Alain, to Compagnie Generale d'Automatisme CGA-HBS. Two-way pedestrian access control system. 4,640,047, 2-3-87, Cl. 49-47.000.

Simonnet, Jacques, to Cogema. Centrifugal decanter of the pendulous type. 4,687,463, 8-18-87, Cl. 494-83.000.

Simons, Antonius J. F.: *See*—
Goorden, Josephus J. P. M.; Simons, Antonius J. F.; and Kleintjens, Ludovicus A. L., 4,652,675, Cl. 562-494.000.
Goorden, Josephus J. P. M.; Simons, Antonius J. F.; and Kleintjens, Ludovicus A. L., 4,654,437, Cl. 562-494.000.

Simons, David R., to Hughes Aircraft Company. Infrared zoom telescope with decentered dome. 4,705,343, 11-10-87, Cl. 350-1.300.

Simons, Dick: *See*—
van Cooten, Robertus; Simons, Dick; Witteveen, Bontko; Draai, Willem T.; van Stiphout, Johannes G. V.; and Huijben, Martinus J., 4,704,621, Cl. 346-153.100.

Simons, Dieter: *See*—
Muhlhahn, Dieter; Marsella, Gino; Detzner, Friedhelm; Simons, Dieter; Schafer, Horst-Djeter; and Haarkotter, Hermann, 4,660,811, Cl. 267-141.100.

Simons, Gale G.; and DeBey, Timothy M., to Kansas State University Research Foundation. Thin thermoluminescent dosimeter and method of making same. 4,636,642, 1-13-87, Cl. 250-337.000.

Simons, John R., to Grunau Company, Inc. Sprinkler head. 4,662,455, 5-5-87, Cl. 169-37.000.

Simons, Leon. Tamper proof package with electrical circuit. 4,711,368, 12-8-87, Cl. 220-450.000.

Simons, Michael J., to Eastman Kodak Company. Dispersions of water-insoluble photographic addenda using petroleum sulfonate. 4,716,099, 12-29-87, Cl. 430-493.000.

Simons, Petrus A. M. R.; and Bouts, Wilhelmus J., to Oce-Nederland B.V. Copying process and electrophotographic element utilizing a photoconductive pigment dispersed in an improved polymeric binder. 4,640,879, 2-3-87, Cl. 430-96.000.

Simons, Robert: *See*—
Frezza, William; Simons, Robert; and Westerfer, Richard, 4,712,239, Cl. 380-20.000.

Simons, Robert E.: *See*—
Chu, Richard C.; and Simons, Robert E., 4,709,754, Cl. 165-133.000.

Simons, Robert W.; Scott, Danny E.; and Poland, John R., to Hughes Tool Company - USA. Pack carburizing process for earth boring drill bits. 4,643,051, 2-17-87, Cl. 76-108.00A.

Simonsen, Christian C.: *See*—
Levinson, Arthur D.; and Simonsen, Christian C., 4,713,339, Cl. 435-240.200.

Simonsen, Glenn H.; and Klotz, Clayton J., to Allen-Bradley Company. Terminal block marking surface. 4,637,676, 1-20-87, Cl. 339-113.00R.

Simonsen, Jens K., to Danfoss A/S. Mass flow meter working on the coriolis principle. 4,653,332, 3-31-87, Cl. 73-861.380.

Simonsen, Jens K., to Danfoss A/S. Apparatus for measuring a force. 4,669,320, 6-2-87, Cl. 73-862.590.

Simonsen, Jens K.; and Moos, Hans J., to Danfoss A/S. Mass flow meter on the coriolis principle. 4,680,974, 7-21-87, Cl. 73-861.380.

Simonsen, Karl: *See*—
Skovhauge, Erik; and Simonsen, Karl, 4,655,127, Cl. 99-455.000.

Simonsen, Kenard A. Grease catch basin with solvent reservoir for use with cooking exhaust systems. 4,635,617, 1-13-87, Cl. 126-299.00E.

Simonsen, Richard C.: *See*—
Harrison, Joel N.; Condito, Vincent A.; Graham, Randolph H.; Nixon, Brian J.; and Simonsen, Richard C., 4,639,798, Cl. 360-73.000.

Simonson, Dale E.; and Stoll, Donald H., to General Electric Company. Stud mounted non-metallic electric enclosure. 4,712,157, 12-8-87, Cl. 361-357.000.

Simonsson, Daniel: *See*—
Bjareklint, Ake; and Simonsson, Daniel, 4,692,229, Cl. 204-151.000.

Simonsson, Samuel S.: *See*—
Martinen, Hinrich; Simonsson, Samuel S.; and Wirth, Peter, 4,634,831, Cl. 219-121.0LG.

Simonsson, Sven B., to AB Electrolux. Vacuum cleaner nozzle. 4,688,294, 8-25-87, Cl. 15-367.000.

Simonsson, Tord B.: *See*—
Dahlberg, Bengt A. G.; Jeppsson, Jan-Bertil; Ohlsson, Lars I.; and Simonsson, Tord B., 4,650,458, Cl. 604-5.000.

Simonton, J. Wayne: *See*—
Mikulas, Martin M., Jr.; Rhodes, Marvin D.; and Simonton, J. Wayne, 4,677,803, Cl. 52-646.000.

Simonton, R. D.; Cattano, John D.; and Mason, Robert K., to Fremont Special Machine Co., Inc. Separator basket preforms for primary cells and methods of forming and inserting same. 4,678,729, 7-7-87, Cl. 429-129.000.

Simonton, Robert D.; and Breese, Douglas E., to Fremont Special Machine Company, Inc. Wrapper and wrapper blank for battery plates. 4,663,253, 5-5-87, Cl. 429-129.000.

Simonton, Robert D.; Cattano, John D.; and Mason, Robert K., to Fremont Special Machine Co., Inc. Apparatus for forming and inserting cell separator baskets. 4,679,316, 7-14-87, Cl. 29-731.000.

Simonton, Robert D.; and Breese, Douglas E., to Fremont Special Machine Company, Inc. Wrapped battery plate. 4,680,242, 7-14-87, Cl. 429-136.000.

Simopoulos, George N.: *See*—
Simopoulos, Nicholas T.; Simopoulos, George N.; and Simopoulos, Gregory N., 4,647,337, Cl. 156-633.000.

Simopoulos, Gregory N.: *See*—
Simopoulos, Nicholas T.; Simopoulos, George N.; and Simopoulos, Gregory N., 4,647,337, Cl. 156-633.000.

Simopoulos, Nicholas T.; Simopoulos, George N.; and Simopoulos, Gregory N., to Luminescent Electronics, Inc. Method of making electroluminescent panels. 4,647,337, 3-3-87, Cl. 156-633.000.

Simpkin, Alan A.: *See*—
Lee, Kam B.; and Simpkin, Alan A., 4,645,657, Cl. 423-457.000.

Simpkins, F. Richard: *See*—
Ziegler, Michael J.; and Simpkins, F. Richard, 4,652,292, Cl. 65-84.000.
Ziegler, Michael J.; and Simpkins, F. Richard, 4,708,730, Cl. 65-261.000.

Simpkins, Ligaya M.: *See*—
Varma, Ravi K.; Gordon, Eric M.; and Simpkins, Ligaya M., 4,673,685, Cl. 514-333.000.

Simpkins, Ronald W.: *See*—
Lohmeyer, Charles W.; Schlosser, Erich J.; Tucker, James E.; Stephen, James C.; Leja, Andrzej; Beecher, John, III; Simpkins, Ronald W.; and Pestka, Donald E., 4,677,964, Cl. 126-41.00R.

Simpkins, Terry J.: *See*—
Kuck, Jay L.; Simpkins, Terry J.; and Harris, David P., 4,653,129, Cl. 5-430.000.

Simpkins, Timothy M.: *See*—
Best, Christopher H.; Lakin, David F.; and Simpkins, Timothy M., 4,702,212, Cl. 123-472.000.

Simpla Plastics Limited: *See*—
Lowthian, Peter T., 4,634,437, Cl. 604-323.000.

Simplec Manufacturing Company, Inc.: *See*—
Chappell, George D.; West, Jerry B.; and Wilson, Robert B., 4,656,397, Cl. 315-241.00S.

Simplex Ceiling Corp.: *See*—
Nassof, Martin, 3,695,141, Cl. 52-484.000.

Simplex Security Systems, Inc.: *See*—
Witkoski, Edward J.; and Lizotte, Edgar G., 4,637,237, Cl. 70-285.000.

Simplicity Manufacturing, Inc.: *See*—
Freier, Edward, Jr.; and Schaefer, Daniel W., 4,711,073, Cl. 56-13.300.

Simplimatic Engineering Co.: *See*—
Mastak, Edmond J., 4,667,808, Cl. 198-419.000.

Simpson, Andrew F.: *See*—
Hargreaves, Edward; and Simpson, Andrew F., 4,642,130, Cl. 65-60.100.

Simpson, Bobby R. Waterways treatment composition and method. 4,655,814, 4-7-87, Cl. 71-67.000.

Simpson, Dale A.: *See*—
Miller, Robert O.; and Simpson, Dale A., 4,649,629, Cl. 29-576.00B.

Simpson, David C.: *See*—
Baker, Harold R.; Thrower, Eugene S.; and Simpson, David C., 4,690,779, Cl. 252-546.000.

Simpson-Davis, Raymond: *See*—
Etherington, Harry J. C.; Joslin, Paul C.; Carr, David E.; and Simpson-Davis, Raymond, 4,707,573, Cl. 178-18.000.

Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw; Blackburn, William P.; and Kania, Charles M., to PPG Industries, Inc. Color plus clear coatings employing polyepoxides and polyacid curing agents. 4,650,718, 3-17-87, Cl. 428-413.000.

Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw; Blackburn, William P.; and Kania, Charles M., to PPG Industries, Inc. Color plus clear coatings employing polyepoxides and polyacid curing agents in the clear coat. 4,681,811, 7-21-87, Cl. 428-413.000.

Simpson, Dennis A.: *See*—
Singer, Debra L.; Dowbenko, Rostyslaw; and Simpson, Dennis A., 4,703,101, Cl. 528-87.000.

Simpson, Dennis L.: *See*—
Brabb, James D.; and Simpson, Dennis L., 4,681,265, Cl. 239-665.000.

Simpson, Dennis W.: *See*—
Padarev, Nikolay K.; and Simpson, Dennis W., 4,646,794, Cl. 141-1.000.

Simpson, Edwin K. Apparatus for dewatering a mass of wet fibrous material. 4,665,817, 5-19-87, Cl. 100-98.00R.

Simpson, Edwin K., to Harris Press and Shear, Inc. Method for dewatering a mass of wet fibrous material. 4,691,628, 9-8-87, Cl. 100-37.000.

Simpson, Frederick H.: *See*—
Koetje, Edward L.; Simpson, Frederick H.; and Schorsch, James F., 4,677,443, Cl. 343-872.000.

Simpson, George E.: *See*—
Webb, John D., Jr.; Hori, Roy Y.; and Simpson, George E., 4,714,470, Cl. 623-18.000.

Simpson, George R., to Bos-Knox, Ltd. Electrostatic random access memory. 4,704,707, 11-3-87, Cl. 365-244.000.

Simpson, Harold G.; and Neyer, Leo E., to Harold Simpson, Inc. Standing seam roof assembly components. 4,682,454, 7-28-87, Cl. 52-200.000.

Simpson, Harold S., to Harold Simpson, Inc. Standing seam sidelap system and method for assembling same. 4,700,522, 10-20-87, Cl. 52-528.000.

Simpson, Jay R.: *See*—
MacChesney, John B.; and Simpson, Jay R., 4,666,247, Cl. 350-96.340.

Simpson, Jean, executrix: *See*—
Simpson, Victor J., deceased, 4,703,889, Cl. 237-70.000.

Simpson, Jeffrey W.: *See*—
Stewart, John B., Jr.; Szalvay, Laszlo; de Brunier, Bernard; and Simpson, Jeffrey W., 4,637,436, Cl. 138-89.000.

Simpson, John B., to Advanced Cardiovascular Systems, Inc. Perfusion catheter and method. 4,661,094, 4-28-87, Cl. 604-53.000.

Simpson, John B.: *See*—
Gifford, Hanson S., III; and Simpson, John B., 4,669,469, Cl. 128-305.000.

Simpson, John D.; and Butler, Christopher C., to Dana Corporation. Quick disconnect mechanism for selectively securing a shaft to a power take-off end yoke. 4,645,368, 2-24-87, Cl. 403-9.000.

Simpson, John G.: *See*—
Baker, Terence S.; Abbott, Stephen R.; Simpson, John G.; Wright, John F.; and Powell, Michael J., 4,656,143, Cl. 436-527.000.

Simpson, Leslie J., to Flight Equipment and Engineering Ltd. Vehicle seats. 4,635,999, 1-13-87, Cl. 297-88.000.

Simpson, Leslie J., to Flight Equipment and Engineering Limited. Reclinable vehicle seats. 4,681,369, 7-21-87, Cl. 297-316.000.

Simpson, Norman R.: *See*—
Barber, Patrick G.; and Simpson, Norman R., 4,696,808, Cl. 423-338.000.

Simpson, Richard D.: *See*—
Magar, Surendar S.; Essig, Daniel L.; Simpson, Richard D.; and Caudel, Edward R., 4,713,748, Cl. 364-200.000.

Simpson, Richard O.: *See*—
Hester, Phillip D.; and Simpson, Richard O., 4,680,700, Cl. 364-200.000.

Simpson, Robert B.; and Margossian, Linda J., to Atlantic Richfield Company. Method for producing intact plants containing foreign DNA. 4,658,082, 4-14-87, Cl. 800-1.000.

Simpson, Scott, to Rogers Corporation. Complex block multipolymer surfactants. 4,692,476, 9-8-87, Cl. 521-112.000.

Simpson Strong-Tie Company, Inc.: *See*—
Commins, Alfred D.; Gilb, Tyrell T.; and Littleton, Karen W., 4,665,672, Cl. 52-295.000.
Commins, Alfred D., 4,714,372, Cl. 403-400.000.

Simpson, Thomas W., to Solaronics, Inc. Confined spaced infrared burner system and method of operation. 4,639,213, 1-27-87, Cl. 431-326.000.

Simpson, Victor J., deceased (by Simpson, Jean, executrix), to British Alcan Aluminium Limited. Space heating radiator. 4,703,889, 11-3-87, Cl. 237-70.000.

Simpson, Virgil E. Spray boom mounting and carrying system. 4,673,130, 6-16-87, Cl. 239-167.000.

Simpson, Wayne F.; Ayers, Ray R.; and Patterson, Robert W., to Shell Oil Company. Containment boom system. 4,640,645, 2-3-87, Cl. 405-63.000.

Simpson, Wayne F., to Shell Western E&P Inc. Fireproof boom. 4,645,376, 2-24-87, Cl. 405-63.000.

Simpson, William W.; and Fulton, Irvin G., to USM Corporation. Bag spreaders. 4,697,403, 10-6-87, Cl. 53-551.000.

Simro AG: *See*—
Wiedmann, Helmut; and Czech, Gunther, 4,685,781, Cl. 351-110.000.

Simro A.G.: *See*—
Czech, Guenther, 4,655,564, Cl. 351-41.000.

Simroth, Donald W.; Critchfield, Frank E.; and Myerly, Richard C., to Union Carbide Corporation. Polymer/polyols having improved combustion resistance and intrinsic viscosity, methods of making same and polyurethanes prepared therefrom. 4,652,589, 3-24-87, Cl. 521-137.000.

Sims, Anson: *See*—
Jones, Lawrence T.; and Sims, Anson, 4,669,984, Cl. 434-85.000.

Sims, Calvin L., to Winfield Laboratories, Inc. Method of dressing wounds. 4,638,796, 1-27-87, Cl. 128-155.000.

Sims, Claude: *See*—
Martin, Robert J.; and Sims, Claude, 4,709,360, Cl. 367-157.000.

Sims, Donald E.: *See*—
DeGeorge, Peter J.; Ross, Roger F.; and Sims, Donald E., 4,687,353, Cl. 400-76.000.

Sims, Edward H. Display receptacle for deciduous teeth. 4,694,956, 9-22-87, Cl. 206-83.000.

Sims, G. Wyatt: *See*—
Sims, Graham D.; and Sims, G. Wyatt, 4,706,642, Cl. 126-9.00R.

Sims, Graham D.; and Sims, G. Wyatt. Folding camp stove/oven apparatus. 4,706,642, 11-17-87, Cl. 126-9.00R.

Sims, John C., deceased (by Sims, Lucille, executrix); and Mundo, Charles J., Jr., to Sineco, Inc. Optical ranging anti-collision technique and system. 4,681,431, 7-21-87, Cl. 356-4.000.

Sims, Keith J.: *See*—
Parsi, Edgardo J.; Sims, Keith J.; and Goldstein, Arthur L., 4,707,240, Cl. 204-290.00F.

Sims, Leon. Athletic knee protector. 4,685,153, 8-11-87, Cl. 2-24.000.

Sims, Lucille, executrix: *See*—
Sims, John C., deceased; and Mundo, Charles J., Jr., 4,681,431, Cl. 356-4.000.

Sims, Richard E., to Curran Company, The. Window for shielded enclosure. 4,696,547, 9-29-87, Cl. 350-319.000.

Sims, Scott M. Optical eyepiece adaptor for cameras. 4,655,569, 4-7-87, Cl. 354-62.000.

Sims, Steven R.: *See*—
Oloff, Clarence M.; Hermann, Linda M.; Moss, William G.; and Sims, Steven R., 4,653,509, Cl. 128-749.000.

Oloff, Clarence M.; Hermann, Linda M.; Moss, William G.; and Sims, Steven R., 4,686,997, Cl. 128-653.000.

Simson, Dionizy, to ENFO Grundlagenforschungs AG. Distributing control valve with hydraulic control. 4,633,903, 1-6-87, Cl. 137-624.130.

Simson, Dionizy, to Simson and Partner. Pile driver and extractor. 4,650,008, 3-17-87, Cl. 173-91.000.

Simson, Joseph M.; and Jordan, Harold E., to Eastman Kodak Company. High contrast photographic emulsions and elements and processes for their development. 4,650,746, 3-17-87, Cl. 430-438.000.

Simson and Partner: *See*—
Simson, Dionizy, 4,650,008, Cl. 173-91.000.

Simtek Inc.: *See*—
Urwyler, Peter R., 4,638,696, Cl. 83-261.000.

Simula, Inc.: *See*—
Warrick, James C., 4,712,834, Cl. 297-284.000.

Simulog, Inc.: *See*—
Lavi, Yoav, 4,697,241, Cl. 364-488.000.

Simunek, Jaroslav: *See*—
Smidrkal, Jan; Simunek, Jaroslav; Tolman, Jiri; Soucek, Jiri; Novacek, Alois; Novak, Jan; Krob, Vaclav; Kovar, Pavel; Klofec, Miroslav; and Vondracek, Bohumir, 4,637,894, Cl. 252-186.400.

Sinar AG Schaffhausen: *See*—
Koch, Carl, 4,678,302, Cl. 354-107.000.
Koch, Hans-Carl; and Datwyler, Peter, 4,669,846, Cl. 354-295.000.

Sincerbox, Glenn V.: *See*—
Juliana, Anthony, Jr.; Latta, Milton R.; Sincerbox, Glenn V.; and Willson, Carlton G., 4,645,338, Cl. 356-150.000.

Sinchak, John L.: *See*—
Eichelberger, Edward B.; Langmaid, Roger N.; Lindbloom, Eric; Motika, Franco; Sinchak, John L.; and Waicukauski, John A., 4,687,988, Cl. 324-73.0AT.

Sincholle, Daniel: *See*—
Coquelet, Claude; Battais, Elisabeth; Bonne, Claude; and Sincholle, Daniel, 4,665,085, Cl. 514-398.000.

Sincholles, Daniel: *See*—
Coquelet, Claude; Bertez, Chantal; Bonne, Claude; and Sincholles, Daniel, 4,656,184, Cl. 514-370.000.

Sinclair, David: *See*—
Clinton, Peter; Myers, Ronald V.; and Sinclair, David, 4,679,433, Cl. 73-304.00C.

Sinclair, Graham R. Aircraft undercarriage assemblies. 4,659,040, 4-21-87, Cl. 244-103.00S.

Sinclair, Keith: *See*—
Shukla, Dipak P.; Sinclair, Keith; and Smith, Kevin A., 4,640,717, Cl. 127-58.000.

Sinclair, Paul F., III: *See*—
Kuyel, Birol; and Sinclair, Paul F., III, 4,635,855, Cl. 239-551.000.

Sinclair, Richard G.; Benecke, Herman P.; and Sowell, Sylvester, to Idemitsu Petrochemical Co., Ltd. Method for the preparation of polyarylene sulfide with aqueous polyethylene glycol mixture. 4,698,415, 10-6-87, Cl. 528-388.000.

Sinclair, Richard G.: *See*—
Santangelo, Joseph G.; Weber, James J.; Sinclair, Richard G.; and Tenaglia, Richard D., 4,633,929, Cl. 164-34.000.
Santangelo, Joseph G.; Weber, James J.; and Sinclair, Richard G., 4,665,136, Cl. 525-523.000.

Sinclair, Robert A.: *See*—
Brown-Wensley, Katherine A.; and Sinclair, Robert A., 4,704,444, Cl. 528-25.000.
Larimore, Franklin C.; and Sinclair, Robert A., 4,656,077, Cl. 428-156.000.

Sinclair and Rush, Inc.: *See*—
Ventimiglia, Joseph J., 4,695,241, Cl. 425-275.000.

Sinclair, Stuart W., to Long Reach Manufacturing Co. Side shifter and narrow aisle attachment for a lift truck. 4,636,131, 1-13-87, Cl. 414-621.000.

Sinclair, Stuart W., to Long Reach Manufacturing Co. Tubular slide lift truck attachment. 4,642,020, 2-10-87, Cl. 414-621.000.

Sinclair, Stuart W.; and Lane, Kenneth R., to Long Reach Manufacturing Co. No crease option for a lift truck attachment. 4,655,672, 4-7-87, Cl. 414-661.000.

Sinclair, William J.; Kovats, Tibor F. I.; and Straus, Jozef, to Northern Telecom Limited. Hermetic optical attenuator. 4,695,125, 9-22-87, Cl. 350-96.200.

Sinclair, William J.: *See*—
Duck, Gary S.; and Sinclair, William J., 4,702,549, Cl. 350-96.150.

Sincoskie, Walter D., to Bell Communications Research, Inc. Interconnection of broadcast networks. 4,706,080, 11-10-87, Cl. 340-825.020.

Sindermann, Siegmar, to Holstein und Kappert GmbH. Adjustment devices for a machine for filling bottles and the like. 4,653,551, 3-31-87, Cl. 141-39.000.

Sindermann, Siegmar: *See*—
Rademacher, Friedrich; Sindermann, Siegmar; and Sushardt, Rolf, 4,635,690, Cl. 141-39.000.
Rademacher, Friedrich; Sindermann, Siegmar; and Sushardt, Rolf, 4,679,603, Cl. 141-39.000.

Sindlinger, Raimund: *See*—
Thiel, Klaus P.; Sindlinger, Raimund; and Merrem, Hans J., 4,649,101, Cl. 430-326.000.

Sindlinger, Ronald E., to GTE Products Corporation. Rapid-start fluorescent lamp having a bimetal circuit breaker with leg portions of unequal length. 4,647,893, 3-3-87, Cl. 337-24.000.

Sindlinger, Ronald E., to GTE Products Corporation. Photoflash lamp with improved primer. 4,659,308, 4-21-87, Cl. 431-362.000.

Sindlinger, Ronald E.: *See*—
Shaffer, John W.; and Sindlinger, Ronald E., 4,696,641, Cl. 431-362.000.

Sineco, Inc.: *See*—
Sims, John C., deceased; and Mundo, Charles J., Jr., 4,681,431, Cl. 356-4.000.

Sing, Kenneth S. W.; Gimblett, Frederick G. R.; and Freeman, John J., to United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the. Manufacture of fibrous activated carbons. 4,699,896, 10-13-87, Cl. 502-423.000.

Sing, Peter. Fastening system. 4,641,433, 2-10-87, Cl. 33-137.00R.

Sing, Peter. Window escape descent control device. 4,671,384, 6-9-87, Cl. 182-231.000.

Sing, Peter. Slip resistant footwear. 4,674,200, 6-23-87, Cl. 36-7.600.

Sing, Peter. Rolling contact suction system for vehicle braking and adhesion. 4,699,252, 10-13-87, Cl. 188-5.000.

Singelyn, Daniel D.; and Singelyn, Paul J. Apparatus for dehydrating metal hydroxide sludge. 4,643,108, 2-17-87, Cl. 110-228.000.

Singelyn, Daniel D.; and Singelyn, Paul J. Counterflow spray rinse process. 4,654,089, 3-31-87, Cl. 134-26.000.

Singelyn, Paul J.: *See*—
Singelyn, Daniel D.; and Singelyn, Paul J., 4,643,108, Cl. 110-228.000.
Singelyn, Daniel D.; and Singelyn, Paul J., 4,654,089, Cl. 134-26.000.

Singer, Alfred R. E.; Jenkins, Walter N.; and Alibhai, Asgar M. R., to National Research Development Corporation. Flow coating of metals. 4,657,787, 4-14-87, Cl. 427-319.000.

Singer, Barry M.; and Jayaraman, Rajsekhar, to North American Philips Corporation. Combined bipolar-field effect transistor resurf devices. 4,639,761, 1-27-87, Cl. 357-234.000.

Singer Company, The: *See*—
Albrecht, Charles W.; and Cornforth, Malcolm W., 4,674,316, Cl. 73-3.000.
Barnes, James F., Jr., 4,699,641, Cl. 55-480.000.
Barrett, Michael E., 4,700,481, Cl. 30-475.000.
Bennett, William S., 4,691,280, Cl. 364-200.000.
Brauch, Robert B.; and Huang, Pao-Ter, 4,658,743, Cl. 112-448.000.
Caillier, George A., Sr., 4,663,835, Cl. 29-598.000.
Cavedo, Robert P., 4,693,648, Cl. 409-178.000.
Citron, Irwin M.; and Kaszerman, Philip, 4,688,251, Cl. 380-34.000.
Collodel, Zurino P., 4,696,503, Cl. 294-88.000.
Duncan, John L.; Jones, John E.; Harbeck, Martin E.; and Burns, Stephen R., 4,660,246, Cl. 15-329.000.
Greco, Joseph A., II; Hawkins, Donald K.; LeGrys, Scott R.; and Kit Man, Wai, 4,685,068, Cl. 364-518.000.
Harris, Frank R.; and Carter, Marsha J., 4,669,755, Cl. 285-7.000.
Harris, Frank R.; and Laing, Gordon E., 4,715,083, Cl. 15-323.000.
Houser, John, Jr., 4,712,055, Cl. 320-35.000.
Johnson, Ralph E.; and Rodda, Donald, 4,714,037, Cl. 112-184.000.
Koper, James G.; and Ljung, Bo H. G., 4,639,231, Cl. 445-31.000.
Ljung, Bo H. G.; and Krupick, Walter J., 4,691,323, Cl. 372-107.000.
Lotz, Robert W., 4,703,439, Cl. 364-521.000.
Marino, Louis S.; Buell, Heinz; and Fiore, John M., 4,675,822, Cl. 364-453.000.
Mead, James B.; Schwartz, Leonard; and DeVeau, Emile J., 4,644,360, Cl. 343-700.0MS.
Mead, James B.; Bevan, Robert; and Schwartz, Leonard, 4,668,63[illegible] Cl. 343-756.000.
Mecklenborg, Richard A., 4,657,512, Cl. 434-44.000.
Pittman, Roland, 4,715,227, Cl. 73-504.000.
Rotola, Louis A., Jr.; and Laing, Gordon E., 4,705,547, Cl. 55-374.000.
Rubin, Albert M., 4,683,569, Cl. 371-25.000.
Schwartz, Leonard; and DeVeau, Emile J., 4,654,668, Cl. 340-700.0MS.
Sumerau, William R.; and Owens, Valerie D., 4,662,026, Cl. 15-329.000.
Sumerau, William R.; and Harbin, Henry C., 4,670,937, Cl. 15-329.000.
Trzeciak, John R.; and Turner, James A., 4,656,521, Cl. 358-231.000.
Vermillion, Don W., 4,662,913, Cl. 55-357.000.
Yan, Johnson K., 4,679,040, Cl. 340-747.000.
Zinn, Alfred W., 4,669,099, Cl. 377-47.000.

Singer Company-Kearfott Division, The: *See*—
Albert, William C., 4,656,383, Cl. 310-321.000.
Albert, William C., 4,658,174, Cl. 310-323.000.
Albert, William C., 4,658,175, Cl. 310-323.000.

Singer, Debra L.; and Dowbenko, Rostyslaw, to PPG Industries, Inc. Addition products prepared from mercapto-functional polyhydric alcohols and vinyl-type silanes containing hydrolyzable groups. 4,652,664, 3-24-87, Cl. 556-427.000.

Singer, Debra L.; Birkmeyer, William J.; Dowbenko, Rostyslaw; and Kania, Charles M., to PPG Industries, Inc. Acrylic modified polymers. 4,690,980, 9-1-87, Cl. 525-286.000.

Singer, Debra L.; Dowbenko, Rostyslaw; and Simpson, Dennis A., to PPG Industries, Inc. Liquid crosslinkable compositions using polyoxides and polyacids. 4,703,101, 10-27-87, Cl. 528-87.000.

Singer, Debra L.: *See*—
Dowbenko, Rostyslaw; Singer, Debra L.; Blackburn, William; and Williams, Frank C., Jr., 4,652,610, Cl. 525-100.000.

Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw; Blackburn, William P.; and Kania, Charles M., 4,650,718, Cl. 428-413.000.

Simpson, Dennis A.; Singer, Debra L.; Dowbenko, Rostyslaw; Blackburn, William P.; and Kania, Charles M., 4,681,811, Cl. 428-413.000.

Singer, Loren A.: *See*—
Nault, Gary F.; and Singer, Loren A., 4,676,568, Cl. 439-169.000.

Singer, Nathan: *See*—
Heck, Michael; and Singer, Nathan, 4,671,143, Cl. 81-431.000.
Heck, Michael; and Singer, Nathan, 4,694,974, Cl. 221-263.000.

Singer Products Corporation: *See*—
Rehm, Roger P.; and Trimmer, William R., 4,663,900, Cl. 52-115.000.
Rehm, Roger P., 4,679,687, Cl. 198-778.000.

Singer, Stephen P., to Eastman Kodak Company. Photographic products employing nondiffusible 4-arylazo-1-hydroxy-2-carboxy ester substituted naphthoic image dye-providing compounds. 4,634,654, 1-6-87, Cl. 430-223.000.

Singer, Victor, to Morton Thiokol, Inc. Method of making rocket motor extendible nozzle exit cone. 4,707,899, 11-24-87, Cl. 29-157.00C.

Singery, Denis C.; and Gordon, Ronald O., to Illinois Tool Works Inc. Catheter guide. 4,692,154, 9-8-87, Cl. 604-172.000.

Singh, Anand P.; and Naylor, Gary R., to NRM Corporation. Hydraulic tire curing press. 4,647,273, 3-3-87, Cl. 425-34.00R.

Singh, Anand P., to NRM Corporation. Tire curing press. 4,698,003, 10-6-87, Cl. 425-52.000.

Singh, Avtar: *See*—
Nath, Prem; and Singh, Avtar, 4,704,369, Cl. 437-226.000.

Singh, Baldev, to Sterling Drug Inc. Preparation of intermediates to 6-fluoro-7-(2,6-dimethylpyridyl)quinoline carboxylic acids and compounds. 4,699,984, 10-13-87, Cl. 546-338.000.

Singh, Baldev: *See*—
Lesher, George Y.; and Singh, Baldev, 4,634,772, Cl. 546-288.000.
Lesher, George Y.; and Singh, Baldev, 4,650,806, Cl. 514-335.000.
Lesher, George Y.; and Singh, Baldev, 4,657,915, Cl. 514-300.000.
Lesher, George Y.; and Singh, Baldev, 4,697,071, Cl. 546-288.000.
Lesher, George Y.; and Singh, Baldev, 4,716,170, Cl. 514-300.000.

Singh, Balwant: *See*—
Forgione, Peter S.; and Singh, Balwant, 4,708,984, Cl. 525-127.000.
Forgione, Peter S.; and Singh, Balwant, 4,710,542, Cl. 525-127.000.

Singh, Bawa; and Denton, Peter R., to Denton Vacuum Inc. Cold cathode ion beam source. 4,710,283, 12-1-87, Cl. 204-298.000.

Singh, Bhajan: *See*—
Haigh, David G.; and Singh, Bhajan, 4,698,596, Cl. 328-127.000.

Singh, Gurvinder P.: *See*—
Kwun, Hegeon; Birring, Anmol S.; Singh, Gurvinder P.; Hendrix, Gary J.; and Alcazar, David G., 4,711,120, Cl. 73-119.00R.

Singh, Jaswant: *See*—
Bowe, Michael J.; Oruh, Samuel N.; and Singh, Jaswant, 4,693,822, Cl. 210-255.000.

Singh, Jitendra P.; James, Jawana J.; and Picciolo, John J., to United States of America, Energy. High temperature refractory of $MgCr_2O_4$ matrix and unstabilized ZrO_2 particles. 4,647,547, 3-3-87, Cl. 501-103.000.

Singh, Prabhakar; and Benedict, Mark, to Energy Research Corporation. Nickel anode electrode. 4,659,379, 4-21-87, Cl. 75-234.000.

Singh, Pushpa: *See*—
Liu, Wen-Chih; Parker, William L.; Singh, Pushpa; and Sykes, Richard B., 4,686,299, Cl. 549-271.000.

Singh, Rajesh K.: *See*—
Fountoulakis, Stavros G.; Steinbicker, Richard N.; Hruskoci, Daniel E.; and Singh, Rajesh K., 4,708,779, Cl. 204-27.000.

Singh Rana, Virendra V.: *See*—
Luther, Lars C.; and Singh Rana, Virendra V., 4,690,726, Cl. 156-624.000.

Singh, Rudra P.: *See*—
Ow, Steven S.; and Singh, Rudra P., 4,661,205, Cl. 162-78.000.

Singh, Shiva S.: *See*—
Puskarz, Stanley J.; Shalit, Herbert S.; and Singh, Shiva S., 4,688,608, Cl. 141-39.000.

Singh, Shobha: *See*—
Camlibel, Irfan; Chin, Aland K.; Singh, Shobha; Van Uitert, LeGrand G.; and Zydzik, George J., 4,634,474, Cl. 148-1.500.

Singhal, Anil K., to IMRE Corporation. Immune complex assay. 4,711,839, 12-8-87, Cl. 435-4.000.

Singhal, Gopal H.; and Culross, Claude C., to Exxon Research and Engineering Company. Method of preparing hydrocarbon substituted dithiocarbamates of molybdenum. 4,681,957, 7-21-87, Cl. 556-38.000.

Singhal, Gopal H., to Exxon Research and Engineering Company. Method of preparation of dithiocarbamate complexes of molybdenum (VI). 4,683,316, 7-28-87, Cl. 556-38.000.

Singhal, S. N.: *See*—
Schmeal, W. R.; Singhal, S. N.; and Lo, K. H., 4,640,853, Cl. 428-35.000.

Singhal, Surendra N.: *See*—
Korcz, William H.; and Singhal, Surendra N., 4,664,285, Cl. 220-67.000.
Korcz, William H.; and Singhal, Surendra N., 4,706,833, Cl. 220-67.000.
Korcz, William H.; and Singhal, Surendra N., 4,711,362, Cl. 220-67.000.

Singhdeo, Narendra N.; Pryor, Michael J.; Leedecke, Charles J.; and Masse, Norman G., to Olin Corporation. Method of manufacturing glass capacitors and resulting product. 4,687,540, 8-18-87, Cl. 156-630.000.

Singheiser, Lorenz: *See*—
Nicoll, Andrew R.; and Singheiser, Lorenz, 4,675,204, Cl. 427-35.000.

Singhi, Dilip T., to Rauland-Borg Corporation. Programmable clock. 4,677,541, 6-30-87, Cl. 364-145.000.

Single Buoy Moorings Inc.: *See*—
Dore, Bernard-Frederic; and Gastowt, Daniel J., 4,660,494, Cl. 114-230.000.
Perratone, Rene; and Poldervaart, Leendert, 4,635,971, Cl. 285-134.000.
Poldervaart, Leendert; Personnat, Jean C. M.; and Quinti, Roland P. O., 4,686,924, Cl. 114-219.000.
Poldervaart, Leendert; and Personnat, Jean C. M., 4,694,771, Cl. 114-230.000.

Single-Ply Institute of America, Inc.: *See*—
Francovitch, Thomas F., 4,674,244, Cl. 52-173.00R.

Singleman, Alfred H.; Singleman, Alfred H., Jr.; and Singleman, Erick R. Game of chance. 4,706,961, 11-17-87, Cl. 273-274.000.

Singleman, Alfred H., Jr.: *See*—
Singleman, Alfred H.; Singleman, Alfred H., Jr.; and Singleman, Erick R., 4,706,961, Cl. 273-274.000.

Singleman, Erick R.: *See*—
Singleman, Alfred H.; Singleman, Alfred H., Jr.; and Singleman, Erick R., 4,706,961, Cl. 273-274.000.

Singleton, David M., to Shell Oil Company. Process for dimerizing acrylates and methacrylates. 4,638,084, 1-20-87, Cl. 560-202.000.

Singleton, Donald W., to Shell Oil Company. Apparatus for detecting metal debris particles. 4,677,425, 6-30-87, Cl. 340-627.000.

Singleton, Eric: *See*—
Albers, Michel O.; and Singleton, Eric, 4,691,069, Cl. 585-259.000.

Singleton, Raymund. Electroplating apparatus. 4,680,099, 7-14-87, Cl. 204-213.000.

Singleton, Raymund; and Carmon, Lawrence J., Jr., to Singleton, Raymund. Control device for corrosion testing apparatus. 4,689,472, 8-25-87, Cl. 219-331.000.

Singleton, Robert P., to Sidewinder Products Corporation. Socket wrench with reversing ratchet. 4,680,994, 7-21-87, Cl. 81-57.290.

Singleton, Russell M.: *See*—
Sandland, Paul; Levy, Kenneth; Singleton, Russell M.; Hodgson, Michael L.; and Cutler, Gerald R., 4,644,172, Cl. 250-548.000.

Singleton, William F.: *See*—
Macaulay, Malcolm; and Singleton, William F., 4,683,467, Cl. 340-705.000.

Sinha, Ashok K.: *See*—
Lepselter, Martin P.; Sinha, Ashok K.; and Vaidya, Sheila, 4,675,715, Cl. 357-59.000.

Sinha, Badri, to Siemens Aktiengesellschaft. Method for manufacturing a damping layer for surface wave filters. 4,666,822, 5-19-87, Cl. 430-311.000.

Sinha, Bikash K., to Schlumberger Technology Corporation. Stress and temperature compensated surface acoustic wave devices. 4,705,979, 11-10-87, Cl. 310-313.00A.

Sinha, Ram R. P.: *See*—
Takach, David S.; Boggavarapu, Rao L.; and Sinha, Ram R. P., 4,638,177, Cl. 307-83.000.

Sinha, Susanta; Brown, Philip S.; Harman, Douglas G.; Keller, Harold T.; Olechovsky, David F.; and Cheng, Wenche W., to Westinghouse Electric Corp. Tube expansion process. 4,649,492, 3-10-87, Cl. 364-472.000.

Sinha, Susanta: *See*—
Castner, Raymond P.; Olechovsky, David F.; Brown, Philip S.; Sinha, Susanta; Keller, Harold T.; and Cheng, Wenche W., 4,649,493, Cl. 364-472.000.

Sinha, Uday K., to Southwire Company. Refractory porous plug. 4,661,153, 4-28-87, Cl. 75-76.000.

Sinharoy, Semahat D.; and Davies, Norman, to Westinghouse Electric Corp. Method for insulating conductor joints particularly bus bars and insulated bus bar apparatus. 4,658,504, 4-21-87, Cl. 29-873.000.

Sinharoy, Semahat D.; McKee, Jere L.; and Hoyer, Norman S., to Westinghouse Electric Corp. Circuit breaker contact containing silver and graphite fibers. 4,699,763, 10-13-87, Cl. 419-11.000.

Sinic, Andre: *See*—
le Chatelier, Robert; Sinic, Andre; and Diefenbach, Jean-Jacques, 4,696,334, Cl. 152-417.000.

Siniselo Sport OY: *See*—
Mattila, Heikki, 4,700,407, Cl. 2-23.000.

Sinisi, David B., to AMP Incorporated. Zero insertion force card edge connector. 4,648,668, 3-10-87, Cl. 339-74.00R.

Sinisi, David B.: *See*—
Bright, Edward J.; and Sinisi, David B., 4,716,494, Cl. 361-386.000.
Evans, William R.; and Sinisi, David B., 4,655,519, Cl. 339-17.0CF.

Sinjeokov Andriewsky, Miguel. Automatic weighing machine with minimized angle error and moment error. 4,650,016, 3-17-87, Cl. 177-211.000.

Sink, Nicholas C.; and Rogers, Myer, to Mobil Solar Energy Corporation. Apparatus for replenishing a melt. 4,661,324, 4-28-87, Cl. 422-246.000.

Sink, Ronald A.: *See*—
Harris, James W.; and Sink, Ronald A., 4,661,079, Cl. 445-22.000.

Sink, T. Stephen: *See*—
Roberts, Donald L.; Angel, Anthony L.; Clark, Douglas C.; Clearman, Jack F.; and Sink, T. Stephen, 4,638,820, Cl. 131-336.000.

Sinko, Hannu, to Raute Oy. Method for the manufacture of a veneer beam. 4,638,843, 1-27-87, Cl. 144-350.000.

Sinko, Tibor, to Kisuzemi Innovacios Iroda. Self-propelled scaffold for buildings and rope tensioning means, as well as process for the construction and/or for the servicing of high buildings. 4,694,933, 9-22-87, Cl. 182-128.000.

Sinn, Robert S.: *See*—
Catsimpoolas, Nicholas; McCluer, Robert; Sinn, Robert S.; and Evans, James, 4,710,490, Cl. 514-25.000.

Sinnamon, Robert H.: *See*—
Oglesby, Donald L.; and Sinnamon, Robert H., 4,706,712, Cl. 138-126.000.

Sinnar, Abbas M. Phoretic enhanced-gravity particulate removal system. 4,675,031, 6-23-87, Cl. 55-81.000.

Sinnett, Kevin B.; and White, Rodger L. Fluid and air infusion device. 4,670,006, 6-2-87, Cl. 604-26.000.

Sinnett, Kevin B. Retinal tack. 4,712,550, 12-15-87, Cl. 128-334.00R.

Sinniger, Joseph O.; and Robbi, Anthony D., to RCA Corporation. Digital timing system. 4,638,498, 1-20-87, Cl. 377-39.000.

Sinniger, Joseph O.: *See*—
Bessler, Roger F.; Arbeiter, James H.; and Sinniger, Joseph O., 4,709,394, Cl. 382-49.000.

Sinocchi, Michael. Packaging clip dispenser. 4,708,261, 11-24-87, Cl. 221-289.000.

Sinsei Mfg. Co., Ltd.: *See*—
Yagi, Sigenori; and Yagi, Junosuke, 4,665,731, Cl. 72-307.000.

Sinskey, Anthony J.; Walker, Graham C.; Higashio, Kanji; Rao, Eswara A.; Shanabruch, William G.; and Yoshihama, Makoto, to Massachusetts Institute of Technology. Cloning systems for corynebacterium. 4,649,119, 3-10-87, Cl. 435-317.000.

Sinsky, Allen I.: *See*—
Moeller, Alvin W.; Willey, Robert E.; and Sinsky, Allen I., 4,652,880, Cl. 342-373.000.

Sinsky, Mark S.: *See*—
Hergenrother, Paul M.; Bass, Robert G.; Sinsky, Mark S.; and Connell, John W., 4,663,483, Cl. 564-396.000.

SINTEF: *See*—
Ugelstad, John; Ellingsen, Turid; Berge, Arvid; and Helgee, Oskar B., 4,654,267, Cl. 428-407.000.

Sinter-Cast AB: *See*—
Backerud, Stig L., 4,667,725, Cl. 164-4.100.

Sinter Limited: *See*—
Mino, Takeyasu; and Harada, Mitsuaki, 4,697,355, Cl. 34-41.000.

Sintermetallwerk Krebsoege GmgH: *See*—
Huppmann, Winfried, 4,708,912, Cl. 428-547.000.

Sintokogio Ltd.: *See*—
Uzaki, Nagato; Itoh, Shigeru; Kanayama, Ryoji; Harada, Hisashi; and Kawamura, Yasutaro, 4,633,928, Cl. 164-19.000.

Siol, Werner; Arnold, Wolfgang; and Vetter, Heinz, to Rohm GmbH Chemische Fabrik. Multilayer web plate with improved light-permeability. 4,647,489, 3-3-87, Cl. 428-119.000.

Siol, Werner: *See*—
Kraemer, Dieter; Siol, Werner; Markert, Gerhard; Suetterlin, Norbert; and Feil, Cornelia, 4,710,525, Cl. 523-201.000.
Wenzel, Franz; Arndt, Peter J.; and Siol, Werner, 4,636,458, Cl. 430-270.000.
Wenzel, Franz; Arndt, Peter J.; and Siol, Werner, 4,709,000, Cl. 526-320.000.

Stoshansi, Piran, to Spire Corporation. Ion implanation of titanium workpieces without surface discoloration. 4,693,760, 9-15-87, Cl. 148-4.000.

Sioux Steam Cleaner Corporation: *See*—
Finger, John F.; and Lawrenson, Glen A., 4,678,892, Cl. 219-272.000.

Siove, Alain: *See*—
Grubbs, Robert H.; Gilliom, Laura R.; and Siove, Alain, 4,690,992, Cl. 526-160.000.

SIP-Societa Italiana per l'Esercizio Telefonica p.a.: *See*—
Ambrosio, Renato; Brosio, Alberto; Fausone, Alfredo; and Tofanelli, Adler, 4,713,803, Cl. 370-32.100.
Gagliardi, Fabrizio; Bruno, Carlo M.; and Tofanelli, Adler, 4,675,885, Cl. 375-110.000.
Riolfo, Benedetto; Guglielmo, Mario; and Baronetti, Giovanni, 4,660,078, Cl. 358-133.000.

Sipes, Donald L., Jr., to California Institute of Technology. Method and apparatus for efficient operation of optically pumped laser. 4,710,940, 12-1-87, Cl. 372-75.000.

Sipila, Heikki J.; and Laamanen, Kai J., to Outokumpu Oy. Method for taking the radiation background into account in the determination of radiation intensities of analyzed samples. 4,653,081, 3-24-87, Cl. 378-45.000.

Sipila, Heikki J.: *See*—
Salminen, Karl O.; Heino, Heimo J.; Lehtonen, Pertti T.; Koskinen, Seppo V.; Kivisto, Tuomo V.; Rinta-Koturi, Lasse J.; and Sipila, Heikki J., 4,703,846, Cl. 198-631.000.

Sipinen, Alan J.: *See*—
Wood, Leigh E.; Miller, John A.; and Sipinen, Alan J., 4,710,190, Cl. 604-389.000.

Sipos nee Richter, Terez: *See*—
David, Dezso; Rovo, Peter; Sipos nee Richter, Terez; Molnar, Gyorgy; Deme, Istvan; and Karnitscher, Tamas, 4,713,078, Cl. 8-94.150.

Sipos, Peter A., to Du Pont Canada Inc. Catalytic oxidation of liquid cycloparaffins. 4,658,056, 4-14-87, Cl. 562-523.000.

Sipos, Tibor, to Johnson & Johnson Products Inc. Oral compositions. 4,664,906, 5-12-87, Cl. 424-49.000.

Siposs, George G. Left ventrical vacuum control and pressure relief valve. 4,642,097, 2-10-87, Cl. 604-119.000.

Siposs, George G.; and Sternlieb, Jack J., to American Omni Medical, Inc., by said Jack Sternlieb. Thoracic drainage collection system and method. 4,675,010, 6-23-87, Cl. 604-319.000.

Sippican Ocean Systems, Inc.: *See*—
Hudson, Alan T.; Gagnon, David P.; Johns, David W., II; and Langenhein, William J., Jr., 4,673,363, Cl. 441-1.000.

Sipra Patententwicklungs-und Beteiligungsgesellschaft mbH: *See*—
Brunner, Heinz; and Seeger, Stefan, 4,681,272, Cl. 242-47.010.
Cottenceau, Remi; Fischer, Francois; and Arieh, Simon, 4,691,535, Cl. 66-144.000.
Plath, Ernst-Dieter, 4,693,092, Cl. 66-55.000.

Sir Henry Lawson-Tancred, Sons & Co. Ltd.: *See*—
Lawson-Tancred, Henry, 4,692,095, Cl. 416-23.000.

Siragusa, Anthony: *See*—
Blanco, Carlos; and Siragusa, Anthony, 4,667,665, Cl. 128-156.000.

Sirakawa, Toraichi: *See*—
Muroya, Hideki; and Sirakawa, Toraichi, 4,652,934, Cl. 358-260.000.

Siraky, Josef; and Haffner, Bernd, to Max Stegmann GmbH Uhren- und Elektroapparatefabrik. Adjusting device for angle step indicator. 4,652,748, 3-24-87, Cl. 250-231.05E.

Sirasaki, Yuichi: *See*—
Yamamura, Kazuomi; Ishihara, Hideo; Iwamoto, Yoshinao; Suzuki, Shizuo; Sirasaki, Yuichi; and Asakawa, Kenichi, 4,678,371, Cl. 405-164.000.

Sirazi, Semir: *See*—
Bione, Angelo A.; and Sirazi, Semir, 4,707,827, Cl. 370-85.000.

Sirbasku, David A.; and Ikeda, Tatsuhiko, to Board of Regents, The University of Texas. Peptide growth factors derived from estrogen responsive kidney tissue. 4,670,539, 6-2-87, Cl. 530-324.000.

Sircar, Anup: *See*—
Thomas, George L.; and Sircar, Anup, 4,677,081, Cl. 501-60.000.

Sircar, Ila, to Warner-Lambert Company. N-[4-[2-(1,4,5,6-tetrahydro-4-methyl-6-oxo-3-pyridazinyl)ethenyl]phenyl]acetamide and related compounds. 4,656,170, 4-7-87, Cl. 514-247.000.

Sircar, Ila; and Bristol, James A., to Warner-Lambert Company. Substituted indeno-pyridazinones. 4,701,453, 10-20-87, Cl. 514-222.000.

Sircar, Shivaji; and Koch, William R., to Air Products and Chemicals, Inc. Oxidation of carbonaceous material. 4,690,696, 9-1-87, Cl. 55-26.000.

Sircar, Shivaji; and Golden, Timothy C., to Air Products and Chemicals, Inc. Technique for surface oxidation of activated carbon. 4,702,749, 10-27-87, Cl. 55-33.000.

Sircar, Shivaji, to Air Products and Chemicals, Inc. Production of mixed gases of controlled composition by pressure swing adsorption. 4,705,541, 11-10-87, Cl. 55-26.000.

Sircar, Shivaji: *See*—
Kratz, Wilbur C.; and Sircar, Shivaji, 4,685,939, Cl. 55-25.000.

Sirdan Research Limited: *See*—
Raab, Simon, 4,698,135, Cl. 202-234.000.

Sireix, Georges. Apparatus for applying a sealing material to the edge of a length of packaging. 4,648,859, 3-10-87, Cl. 493-105.000.

Sireix, Georges. Device for the automatic cutting of cardboard and other tubes. 4,693,149, 9-15-87, Cl. 82-53.100.

Sirieix, Michel B.: *See*—
Besson, Jean G.; Royer, Michel; Salaville, Andre A.; and Sirieix, Michel B., 4,661,713, Cl. 250-578.000.

Sirinyan, Kirkor; Wolf, Gerhard D.; von Gizycki, Ulrich; and Merten, Rudolf, to Bayer Aktiengesellschaft. Semi-finished products for the manufacture of printed circuit boards. 4,636,441, 1-13-87, Cl. 428-447.000.

Sirinyan, Kirkor; Merten, Rudolf; and Giesecke, Henning, to Bayer Aktiengesellschaft. Black-metallized substrate surfaces. 4,657,796, 4-14-87, Cl. 427-304.000.

Sirinyan, Kirkor; Jonas, Friedrich; and Merten, Rudolf, to Bayer Aktiengesellschaft. Process for the production of laminated materials. 4,659,592, 4-21-87, Cl. 427-304.000.

Sirinyan, Kirkor; Merten, Rudolf; and Wolf, Gerhard D., to Bayer Aktiengesellschaft. Process for activating substrate surfaces for electroless metallization. 4,661,384, 4-28-87, Cl. 427-304.000.

Sirkin, Eric R., to Zoran Corporation. Method of selectively making contact structures both with barrier metal and without barrier metal in a single process flow. 4,700,465, 10-20-87, Cl. 437-20.000.

Sirkin, Robert, to Charles Wyle Engineering Corporation. Solvent pump. 4,681,242, 7-21-87, Cl. 222-41.000.

Sirkis, Murray D., to Arizona Board of Regents. Means and method for heating semiconductor ribbons and wafers with microwave. 4,714,810, 12-22-87, Cl. 219-10.55M.

Sirkoch, Robert J.; and Niederst, Kenneth W., to PPG Industries, Inc. Primer composition. 4,634,602, 1-6-87, Cl. 427-44.000.

Sirma S.p.A.: *See*—
Corato, Renzo; Ganapini, Giulio; Meier, Hans-Anton; Pogg, Mauro; Rosso, Antonio; and Sanchioni, Sergio, 4,674,975, Cl. 432-11.000.

Siro SpA: *See*—
Compagnucci, Rossano; and Masera, Ercole, 4,679,746, Cl. 242-77.200.

Sirois, Normand W.; and Arthur, John A., to Classic Corporation. Integrated temperature control unit. 4,700,168, 10-13-87, Cl. 337-327.000.

Sironi, Enrico: *See*—
Garavaglia, Attilio; Sironi, Enrico; and Gonzato, Rinaldo, 4,659,286, Cl. 416-170.00R.

Sironi, Giovanni, to Centro Sperimentale Metallurgico S.p.A. Iron metal desulphurizing and dephosphorizing process. 4,678,5[illegible] 6-30-87, Cl. 75-51.100.

Sirota, Gabriel J., to Amco Industries, Inc. Roll handling apparatus. 4,709,953, 12-1-87, Cl. 294-106.000.

Sirota, Vladimir. Stethoscope with image of periodically expanding and contracting heart. 4,672,975, 6-16-87, Cl. 128-715.000.

Sirrenberg, Wilhelm; Klauke, Erich; Zoebelein, Gerhard; Becker, Benedikt; and Stendel, Wilhelm, to Bayer Aktiengesellschaft. Substituted furazan pesticides. 4,699,916, 10-13-87, Cl. 514-364.000.

Sirrenberg, Wilhelm; Klauke, Erich; Hammann, Ingeborg; and Stendel, Wilhelm, to Bayer Aktiengesellschaft. 2,4-dihalogenobenzoyl-(thio)urea insecticides. 4,711,905, 12-8-87, Cl. 514-522.000.

Sirris Flow Technology, Inc.: *See*—
Johnson, Carl A.; and Robinson, S. M. Boris, 4,648,270, Cl. 73-202.000.

Sirvet, Enn, to Sun Chemical Corporation. Cup feed apparatus. 4,705,158, 11-10-87, Cl. 198-463.400.

Siryj, Bohdan W., to RCA Corporation. Low-friction slide apparatus for optical disc translation stage. 4,704,712, 11-3-87, Cl. 369-249.000.

SiScan Systems, Inc.: *See*—
Lindow, James T.; Bennett, Simon D.; and Smith, Ian R., 4,634,880, Cl. 250-566.000.
Lindow, James T.; Bennett, Simon D.; and Smith, Ian R., 4,707,610, Cl. 250-560.000.

Sisk, David E., to Ultraflo Corp. Reinforced industrial butterfly valve. 4,699,357, 10-13-87, Cl. 251-306.000.

Sisk, George W.; Lynn, Shelby A.; Keil, John P.; and Woods, John T., to Whirlpool Corporation. Built-in refrigerator cabinet. 4,714,304, 12-22-87, Cl. 312-214.000.

Sisk, Robert A., to ETA Thermal Systems Corporation. Apparatus for generating heat and electricity. 4,686,378, 8-11-87, Cl. 290-2.000.

Siska, Andrew F., Jr., to Cara Corporation. Peripheral power sequencer based on peripheral susceptibility to AC transients. 4,674,031, 6-16-87, Cl. 364-184.000.

Siskin, Michael; Brons, Glen B.; and Green, Gary S., to Exxon Research and Engineering Company. Process for dedusting shale-oil. 4,705,622, 11-10-87, Cl. 208-289.000.

Siskind, Eric J.: *See*—
Morrison, John; Siskind, Eric J.; and Frost, Meryll M., Jr., 4,709,332, Cl. 364-414.000.

Siskind, Gregory W.: *See*—
Becker, Carl G.; Francus, Tova; and Siskind, Gregory W., 4,702,907, Cl. 424-88.000.

Siskind, Leland B. M.; Samaha, William A.; and Warshaw, Thayer S. Speed lace structure. 4,633,548, 1-6-87, Cl. 24-145.000.

Siskind, Marvin S., to Energy Conversion Devices, Inc. Electrolevelled substrate for electrophotographic photoreceptors and method of fabricating same. 4,675,272, 6-23-87, Cl. 430-131.000.

Sislegard, Lars-Otto: *See*—
Thorbjornsson, Sven-Ingvar; and Sislegard, Lars-Otto, 4,688,301, Cl. 19-296.000.

Sismo International: *See*—
De Schutter, Andre ; and Casalatina, Silvano, 4,667,707, Cl. 140-112.000.

Sisson, Albert E.; and Lewis, Donald J., to Allied Corporation. Single solenoid unit injector. 4,699,320, 10-13-87, Cl. 239-90.000.

SISTAG Maschinenfabrik Sidler Stalder AG: *See*—
Stalder, Hans; and Sidler, Hans, 4,646,777, Cl. 137-242.000.

Sistelli, Donna: *See*—
Mandarano, Anthony L.; Mandarano, Frank; and Sistelli, Donna, 4,647,510, Cl. 428-542.200.

Sistermann, Klaus: *See*—
Fachat, Gaston; Sistermann, Klaus; and Ungerer, Heinz-Jurgen, 4,698,086, Cl. 65-16.000.

Sisti, Giorgio; Italiano, Pietro; Riva, Ermete; and Tosi, Bruno, to Carlo Erba Strumentazione S.p.A. Method and equipment to perform porosimetric analyses. 4,644,779, 2-24-87, Cl. 73-38.000.

Sisto, Alessandro; Verdini, Antonio S.; and Virdia, Antonino, to Enichem S.p.A. Retro-inverso analogs of the bradykinin potentiating peptide BPP_{5a}. 4,713,367, 12-15-87, Cl. 514-17.000.

Sisto, Alessandro; Verdini, Antonio S.; Virdia, Antonino; De Luca, Giovanna; Di Stazio, Giovanni; and Politi, Vincenzo, to Enricerche S.p.A.; and Polifarma S.p.A. Peptido-mimetic substances with hypotensive action. 4,713,368, 12-15-87, Cl. 514-18.000.

Sisun, Henry: *See*—
Powers, Whitney R.; and Sisun, Henry, 4,702,732, Cl. 604-20.000.

Sit-N-Sip, Inc.: *See*—
Bothun, Eugene L.; and Hine, Brent S., 4,687,122, Cl. 222-183.000.

Sitz Bauelemente GmbH: *See*—
Seefluth, U. Christian, 4,711,609, Cl. 408-68.000.
Seefluth, Uwe C., 4,676,459, Cl. 244-65.000.

Sitabkhan, Mansur N.; and Mack, Raymond E., to Eaton Corporation. Caliper disc brake assembly. 4,638,894, 1-27-87, Cl. 188-170.000.

Sitch, John E., to Northern Telecom Limited. Voltage level shifting depletion mode FET logical circuit. 4,663,543, 5-5-87, Cl. 307-450.000.

Site Microsurgical Systems, Inc.: *See*—
Cook, Kenneth P.; and Bross, Robert M., 4,643,717, Cl. 604-22.000.

Siteg Siebtechnik GmbH: *See*—
Lefferts, Johannes, 4,650,709, Cl. 428-222.000.
Lefferts, Johannes, 4,696,852, Cl. 428-222.000.

Sitkus, Paul V. Modular construction set. 4,650,437, 3-17-87, Cl. 446-128.000.

Sitler, Wayne R.: *See*—
Hrustich, John; and Sitler, Wayne R., 4,639,856, Cl. 364-200.000.

SITMA Societa Italiana Macchine Automatiche S.p.A.: *See*—
Ballestrazzi, Aris; and Tassi, Lamberto, 4,693,053, Cl. 53-389.000.
Ballestrazzi, Aris; and Tassi, Lamberto, 4,709,530, Cl. 53-209.000.
Ballestrazzi, Aris; and Tassi, Lamberto, 4,709,537, Cl. 53-550.000.

Sitnikov, Alexandr E.: *See*—
Gradoboev, Vladimir T.; Sitnikov, Alexandr E.; Klimenov, Alexandr M.; and Melnikov, Leonid I., 4,690,267, Cl. 198-396.000.

Sitrin, Robert D.; Snader, Kenneth M.; and Wasserman, Gail F., to SmithKline Beckman Corporation. Process for the preparation of purified vancomycin class antibiotics. 4,667,024, 5-19-87, Cl. 536-16.900.

Sitte, Hellmuth, to C. Reichert Optische Werke AG. Device for the cryogenic transfer of specimens. 4,637,226, 1-20-87, Cl. 62-514.00R.

Sittig, Roland: *See*—
Roggwiller, Peter; and Sittig, Roland, 4,642,669, Cl. 357-52.000.

Sitting Pretty, Inc.: *See*—
Bloom, Stephen A., 4,670,916, Cl. 4-231.000.

Sittre, Wayne R. Rotary scraper for planter disks. 4,669,550, 6-2-87, Cl. 172-559.000.

Sitwell, Christine L.; Wrightson, Keith; and Sparks, Richard C., to Sitwell, Christine Leback. Shipping container for works of art. 4,664,254, 5-12-87, Cl. 206-1.700.

Sitwell, Christine Leback: *See*—
Sitwell, Christine L.; Wrightson, Keith; and Sparks, Richard C., 4,664,254, Cl. 206-1.700.

Sitzler, Fred C., to Du Pont de Nemours, E. I., and Company. Zero insertion force connector. 4,705,338, 11-10-87, Cl. 439-260.000.

Sitzmann, Michael E.; and Gilligan, William H., to United States of America, Navy. 1:3 "mixed" polynitroethyl orthocarbonates from tris(2-fluoro-2,2-dinitroethoxy)methyl trichloromethyl disulfide. 4,705,899, 11-10-87, Cl. 568-590.000.

Siu, Byron B.: *See*—
Baerg, William; Ting, Chiu H.; Siu, Byron B.; and Tzeng, J. C., 4,700,454, Cl. 437-24.000.

Siu, David: *See*—
Tang, Wai-Cheung; Frenna, Joseph; and Siu, David, 4,644,305, Cl. 333-208.000.
Tang, Wai-Cheung; Siu, David; Beggs, Bruce C.; and Sferrazza, Joseph, 4,652,843, Cl. 333-212.000.
Tang, Wai-Cheung; Siu, David; Beggs, Bruce C.; and Sferrazza, Joseph, 4,675,630, Cl. 333-208.000.

Siu, Linus Siu-Yuen. Method of making a bingo chip. 4,675,973, 6-30-87, Cl. 29-527.200.

Siuta-Mangano, Patricia: *See*—
Dahod, Samun K.; and Siuta-Mangano, Patricia, 4,668,628, Cl. 435-135.000.

Siuta, Vincent P., to Du Pont de Nemours, E. I., and Company. Copper conductor compositions. 4,687,597, 8-18-87, Cl. 252-512.000.

Sivachenko, Eugene W.; and Broacha, Firoze H., to Sivachenko, Eugene W. Lightweight bridge structure. 4,706,319, 11-17-87, Cl. 14-73.000.

Sivalingam, Ramalingam., to Mirram Drive Inc. Two speed accessory transmission with optional neutral mode. 4,706,520, 11-17-87, Cl. 74-781.00R.

Sivalingham, Ramalingam, to Canadian Fram Limited. Two speed accessory drive. 4,667,537, 5-26-87, Cl. 74-752.00E.

Sivalingham, Ramalingam: *See*—
Seung, Michael B.; Sivalingham, Ramalingam; Bullen, David A.; Anderson, Andrew G.; and McCharles, Donald A., 4,662,861, Cl. 474-86.000.

Sivan, Alex: *See*—
Chet, Ilan; Sivan, Alex; and Elad Yigal, 4,713,342, Cl. 435-254.000.

Sivaramakrishnan, Kallidaikurichi N.: *See*—
Shalati, Mohamad D.; and Sivaramakrishnan, Kallidaikurichi N., 4,666,704, Cl. 424-19.000.

Sivasothy, Sivakumar; and Balakrishnan, Ramanatha V., to National Semiconductor Corporation. Fast switching circuit for lateral PNP transistors. 4,644,186, 2-17-87, Cl. 307-300.000.

Sivep di Meniconi Giorgio & C.S.a.s.: *See*—
Fusi, Gaetano; and Meniconi, Silvio, 4,677,935, Cl. 118-108.000.

Siverson, Ronald A.; and Clark, Jay A., to Advanced Input Devices, Inc. Simultaneous multisurface diffusion printer. 4,664,030, 5-12-87, Cl. 101-41.000.

Siwek, Casimir K.: *See*—
Bucksbee, James H.; and Siwek, Casimir K., 4,715,533, Cl. 238-283.000.

Siwersson, Olle L.: *See*—
Lodberg, Jan A. T.; and Siwersson, Olle L., 4,693,490, Cl. 280-650.000.

Siwik, James C.: *See*—
Goss, Gary J.; Holtey, Thomas O.; and Siwik, James C., 4,703,322, Cl. 340-750.000.
Murray, Thomas L., Jr.; Siwik, James C.; and Holtey, Thomas O., 4,667,329, Cl. 371-24.000.

Siwik, William S.: *See*—
Stevens, Leonard W.; Siwik, William S.; Moore, William A.; Brown, Wayne M.; and Barnard, Andrew A., 4,709,545, Cl. 60-39.080.

Siwinski, Paul P.: *See*—
Bennett, Glenn E.; Look, Raymond J.; Dola, Frank P.; Thurman, Richard E.; and Siwinski, Paul P., 4,680,423, Cl. 174-36.000.
Dola, Frank P.; Siwinski, Paul P.; and Zwieg, Grover A., 4,640,569, Cl. 339-143.00R.

Siwon, Hans: *See*—
Pettke, Felix; Siwon, Hans; and Meixner, Hans, 4,716,294, Cl. 250-353.000.
Steinel, Heinrich W.; and Siwon, Hans, 4,642,158, Cl. 156-497.000.

Six, Jean-Claude: *See*—
Goude, Marie; and Six, Jean-Claude, 4,689,616, Cl. 340-725.000.

Six, John E.: *See*—
Gordon, William R.; Nicholson, Peter N.; and Six, John E., 4,645,931, Cl. 250-352.000.
Sixsmith, Thomas: Interior storm window. 4,706,729, 11-17-87, Cl. 160-369.000.
Sizelan, John H.: *See*—
Guill, Dennis J.; McPherson, Larry D.; and Sizelan, John H., 4,694,267, Cl. 333-248.000.
Sizemore, Billy G., to Sizemore, Winston C.; and Sizemore, Charles P., part interest to each: Support for reinforcing bar. 4,682,461, 7-28-87, Cl. 52-689.000.
Sizemore, Charles P.: *See*—
Sizemore, Billy G., 4,682,461, Cl. 52-689.000.
Sizemore, Walter R.: *See*—
Bell, Cecil R., Jr.; Thomas, Richard; London, Jasper R.; and Sizemore, Walter R., 4,658,564, Cl. 53-250.000.
Sizemore, Winston C.: *See*—
Sizemore, Billy G., 4,682,461, Cl. 52-689.000.
Sjalander, Bo A., to JCC Johnson Construction Company AB: Method and equipment for rock drilling. 4,641,716, 2-10-87, Cl. 175-62.000.
Sjoberg, Per, to Norsel Textilmaschinen AG: Article for dealing with small areas such as defects on a web of material. 4,652,481, 3-24-87, Cl. 428-57.000.
Sjoberg, Per: *See*—
Schmid, Hermann; Sjoberg, Per; and Svensson, Leif, 4,706,567, Cl. 102-318.000.
Sjoblom, Eva: *See*—
Bjorlin, Anders; Edberg, Thomas; Sjoblom, Eva; and Westling, Anders, 4,670,184, Cl. 252-311.000.
Sjoborn, Axel H.: *See*—
Kjellqvist, Olof G.; Akerblom, Bengt O.; and Sjoborn, Axel H., 4,673,875, Cl. 324-207.000.
Sjodin, Lars T.: *See*—
Hartler, Nils J. C.; Lekander, Karl-Erik; Sjodin, Lars T.; and Mjoberg, Per J., 4,690,731, Cl. 162-45.000.
Sjoerdsma, Albert, to Merrell Dow Pharmaceuticals Inc.: Method of alleviating withdrawal symptoms. 4,670,459, 6-2-87, Cl. 514-401.000.
Sjogren, Arne B., to Dymo Science Inc.: Mixing pump for transport and effective mixing (homogenization) of two or more liquids (gases) with a constant, but adjustable, ratio of the liquids. 4,673,296, 6-16-87, Cl. 366-159.000.
Sjogren, Bengt C. H.: *See*—
Willman, Nils-Erik; Sjogren, Bengt C. H.; Nordh, Lennart G.; Persson, Gustav L.; and Sjoholm, Goran H., 4,645,758, Cl. 514-239.000.
Sjogren, Christer A., to Quipp, Incorporated: Vacuum accumulating conveyor. 4,645,069, 2-24-87, Cl. 198-689.100.
Sjogren, Christer A.; and D'Amico, Carl, to Quipp Incorporated: Signature stacker. 4,678,387, 7-7-87, Cl. 414-47.000.
Sjogren, Eric B.: *See*—
Evans, David A.; and Sjogren, Eric B., 4,665,171, Cl. 540-364.000.
Evans, David A.; and Sjogren, Eric B., 4,673,737, Cl. 540-205.000.
Sjogren, Robert D., to Metropolitan Mosquito Control District: Timed release fertilizer composition and means. 4,670,039, 6-2-87, Cl. 71-34.000.
Sjoholm, Goran H.: *See*—
Willman, Nils-Erik; Sjogren, Bengt C. H.; Nordh, Lennart G.; Persson, Gustav L.; and Sjoholm, Goran H., 4,645,758, Cl. 514-239.000.
Sjoholm, Ingegerd: *See*—
Jakobsson, Maja; Skjoldebrand, Christina; and Sjoholm, Ingegerd, 4,647,469, Cl. 426-524.000.
Sjolander, Johan: *See*—
Bengtsson, Lars; and Sjolander, Johan, 4,679,632, Cl. 166-345.000.
Sjoqvist, Rolf L., to Astra Lakemedel Aktiebolag: Pharmaceutical mixture. 4,656,027, 4-7-87, Cl. 424-495.000.
Sjostedt, Jon: *See*—
Humphrey, Richard A.; Fisher, Steven D.; Wierenga, Steven W.; and Sjostedt, Jon, 4,672,609, Cl. 371-21.000.
Sjostrom, Douglas D.; and Zemgals, Edvin, to Dyonics, Inc.: Surgical system for powered instruments. 4,705,038, 11-10-87, Cl. 128-305.000.
Sjostrom, Douglas D.: *See*—
Whipple, Terry L.; and Sjostrom, Douglas D., 4,662,371, Cl. 128-312.000.
Sjostrom, Sten-Ove: *See*—
Astner, Gunnar; and Sjostrom, Sten-Ove, 4,706,943, Cl. 266-265.000.
Skach, Edward J., Jr.; Brake, David W.; and Waibel, Joseph H., to Dow Chemical Company, The: Injectable reagents for molten metals. 4,708,737, 11-24-87, Cl. 75-58.000.
Skachkov, Konstantin B.: *See*—
Kostylev, Alexandr D.; Plavskikh, Vladimir D.; Skachkov, Konstantin B.; Terskov, Alexei D.; Reznikov, Igor I.; and Tarasenko, Vladimir I., 4,697,647, Cl. 173-91.000.
Skaggs, Bruce A.: *See*—
Rule, Robert D.; Skaggs, Bruce A.; and King, Gerald E., 4,637,504, Cl. 192-87.170.
Skaggs, Jerry W.: Locking safety platform for a ladder. 4,687,075, 8-18-87, Cl. 182-121.000.
Skaggs, John E., Jr.: Method and apparatus for augmentation of sound by enhanced resonance. 4,714,133, 12-22-87, Cl. 181-160.000.
Skaigh Engineering Ltd.: *See*—
Adshead, Leslie T.; and Torr, Fred, 4,676,562, Cl. 439-38.000.
Skala, Stephen F.: Ice monitoring system using neutron moderation. 4,646,068, 2-24-87, Cl. 340-580.000.
Skalatsky, Viktor K.: *See*—
Glushko, Mikhail F.; Skalatsky, Viktor K.; and Zakhryanov, Anatoly D., 4,641,492, Cl. 57-9.000.
Skaletz, Heinz-Josef: *See*—
Riemann, Hanns-Helmut; Skaletz, Heinz-Josef; and Sonnenschein, Hans, 4,634,060, Cl. 241-74.000.
Skalicky, Stanislav: *See*—
Sorm, Miloslav; Vacha, Jiri; Ulbert, Karel; Jagos, Frantisek; Nespurek, Stanislav; Langpaul, Josef; Skalicky, Stanislav; Kessl, Jaromir; Zvonicek, Miroslav; and Drabek, Oldrich, 4,646,901, Cl. 239-106.000.
Skaling, Timothy J.: *See*—
Clausen, Eivind; and Skaling, Timothy J., 4,636,109, Cl. 404-10.000.
Skalka, Gerald P., to Victor Stanley, Inc.: Playground equipment including vandal resistant mechanical assembly. 4,682,772, 7-28-87, Cl. 272-113.000.
Skalka, Gerald P.; and Skalka, Stanley H.: Multi-position computer support. 4,687,167, 8-18-87, Cl. 248-282.000.
Skalka, Stanley H.: *See*—
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Skallen, Bengt; Ljungkvist, Kjell; and Green, Urban, to Eur-Control Kalle AB: Apparatus and method for permeability measurement. 4,635,470, 1-13-87, Cl. 73-63.000.
Skanderup, Ken W.: *See*—
Rosenzweig, Nachum; and Skanderup, Ken W., 4,686,071, Cl. 264-27.000.
Skandiafabriken AB: *See*—
Andreasson, Jan, 4,641,523, Cl. 73-313.000.
Skantek Corporation: *See*—
Pferd, William, III; Milow, Joshua; and Booth, Thomas A., 4,677,683, Cl. 382-65.000.
Skaria, Arankathu; and Goelds, Heinrich, to Swiss Aluminium Ltd.: Process for the production of soluble alkali silicates. 4,693,879, 9-15-87, Cl. 423-334.000.
Skarland, Henrik: Transportable seating device. 4,684,098, 8-4-87, Cl. 248-155.000.
Skarman, John S.: Touch control switch and lamp system. 4,668,876, 5-26-87, Cl. 307-116.000.
Skarman, John S.; and Milby, Todd W., to Southwest Laboratories Inc.: Wall-mounted touch control switch. 4,672,229, 6-9-87, Cl. 307-115.000.
Skarstedt, Mark T.: *See*—
Ismail, Ibrahim A.; Hemmes, Paul; Skarstedt, Mark T.; and Zipp, Adam, 4,649,121, Cl. 436-14.000.
Ismail, Ibrahim A.; Hemmes, Paul; Skarstedt, Mark T.; and Zipp, Adam, 4,683,209, Cl. 436-14.000.
Skarsvaag, Kristian; Sunde, Andreas J.; and Thue, Sverre, to Texaco Inc.: Characterization of two-phase flow in pipes. 4,683,750, 8-4-87, Cl. 73-861.040.
Skarvan, Charles A.; and Fisher, Stephen A., to General Motors Corporation: Closed-loop engine control with feedback torque error compensation. 4,693,077, 9-15-87, Cl. 60-39.282.
Skarvinko, Eugene P.: *See*—
Clementi, Robert J.; Gazdik, Charles E.; Lafer, William; Lovell, Roy L.; McBride, Donald G.; Munson, Joel V.; and Skarvinko, Eugene P., 4,681,654, Cl. 156-630.000.
Skates, Raymond E., to Kansas City Rubber and Belting Company: Adjustable skirt holder for conveyor. 4,641,745, 2-10-87, Cl. 198-836.000.
Skeels, Gary W.; and Breck, Donald W., deceased (by Breck, Stephen R., George D. Breck, heirs), to Union Carbide Corporation: Silicon substituted Y zeolite composition LZ-210. 4,711,770, 12-8-87, Cl. 423-328.000.
Skega Aktiebolag: *See*—
Svensson, Assar; and Granlund, Dan, 4,714,302, Cl. 305-35.EE.
Skei, Bjarne; and Pettersen, Nils, to Tinfos Jernverk A/s: Device for the injection of gases into molten metals and minerals. 4,665,970, 6-2-87, Cl. 266-270.000.
Skeie, Halvor, to Crystal Technology, Inc.: Compensation technique for temperature effects and non-uniform amplitude distribution in saw devices. 4,661,738, 4-28-87, Cl. 310-313.00D.
Skeist, S. Merrill; and Gross, Leo, to Spellman High Voltage Electronics Corp.: Magnetic arc spreading fluorescent lamp with protective envelope. 4,636,685, 1-13-87, Cl. 313-493.000.
Skelding, William T. H.: *See*—
Radvan, Bronislaw; and Skelding, William T. H., 4,670,331, Cl. 428-303.000.
Skelley, Richard A.: *See*—
Graham, Lawrence D.; Skelley, Richard A.; Fetsko, Daniel G.; Ardo, Ronald, 4,673,021, Cl. 164-122.000.
Skelly, Jacinta; Howard, Colin R.; and Zuckerman, Arie J., to National Research Development Corporation: Relating to hepatitis B vaccines. 4,666,711, 5-19-87, Cl. 424-89.000.
Skelnik, Debra: *See*—
Lindstrom, Richard L.; Doughman, Donald J.; and Skelnik, Debra, 4,695,536, Cl. 435-1.000.
Skelnik, Debra L.: *See*—
Lindstrom, Richard L.; and Skelnik, Debra L., 4,696,917, Cl. 514-54.000.
Lindstrom, Richard L.; and Skelnik, Debra L., 4,713,375, Cl. 514-57.000.
Skelton, Delores J.: *See*—
Skelton, Maynard A.; and Skelton, Delores J., 4,688,958, Cl. 126-369.200.

Skelton, Dennis C. F., to U.S. Philips Corporation. Line output circuit for generating a line frequency sawtooth current. 4,686,431, 8-11-87, Cl. 315-399.000.

Skelton, John: *See*—
Donovan, James G.; and Skelton, John, 4,681,789, Cl. 428-93.000.

Skelton, Lawrence. Method and apparatus for roofing. 4,686,809, 8-18-87, Cl. 52-528.000.

Skelton, Maynard A.; and Skelton, Delores J. Versatile outdoor cooker. 4,686,958, 8-18-87, Cl. 126-369.200.

Skerritt, Robert C., to Lucas Industries Public Limited Company. Monitoring arrangement for a gas turbine spark ignition system. 4,636,777, 1-13-87, Cl. 340-635.000.

SKF Compagnie d'Applications Mecaniques: *See*—
Jacquot, Alain; and Charpentier, Jacques, 4,648,294, Cl. 82-4.00R.
Message, Olivier, 4,682,677, Cl. 192-41.00A.

SKF Gleitlager GmbH: *See*—
Loser, Norbert; Tilgner, Leopold; and Scholer, Jurgen, 4,708,499, Cl. 384-539.000.
Tilgner, Leopold; Scholer, Jurgen; Sautter, Sieghart; and Vogel, Jurgen, 4,691,422, Cl. 29-149.50B.

SKF GmbH: *See*—
Brandenstein, Manfred; Edelmann, Ludwig; Haas, Roland; Herrmann, Gerhard; and Hans, Rudiger, 4,643,700, Cl. 474-112.000.
Brandenstein, Manfred; Hans, Rudiger; and Winkler, Otmar, 4,650,398, Cl. 415-170.00R.
Brandenstein, Manfred; Meining, Hans; and Kaschube, Karl F., 4,652,152, Cl. 384-496.000.
Brandenstein, Manfred, 4,652,168, Cl. 403-259.000.
Brandenstein, Manfred; and Hans, Rudiger, 4,660,997, Cl. 384-490.000.
Brandenstein, Manfred; Klupfel, Norbert; Pape, Gebhard; Haas, Roland; and Schmiechen, Rolf, 4,679,458, Cl. 74-458.000.
Friedrich, Wolfgang; Kiener, Heinz; Lucking, K. A.; and Stork, Josef, 4,647,250, Cl. 384-510.000.
Fuss, Hermann; and Glockner, Hermann, 4,667,521, Cl. 73-862.540.
Gossmann, Reimund, 4,676,671, Cl. 384-485.000.
Harsdorff, Ortwin, 4,647,231, Cl. 384-560.000.
Huttner, Klaus, 4,710,039, Cl. 384-574.000.
Kottwitz, Bernd; and Loser, Norbert, 4,687,347, Cl. 384-141.000.
Nolte, Gunter; Schurger, Rainer; and Ernst, Horst M., 4,643,594, Cl. 384-478.000.
Olschewski, Armin; Bauer, Bernhard; and Zirk, Elisabeth, 4,637,806, Cl. 464-130.000.
Olschewski, Armin; Bauer, Bernhard; and Zirk, Elisabeth, 4,645,474, Cl. 464-131.000.
Olschewski, Armin; Bauer, Bernhard; and Zirk, Elisabeth, 4,653,936, Cl. 384-484.000.
Olschewski, Armin, 4,655,731, Cl. 474-137.000.
Olschewski, Armin; Hetterich, Hermann; Horling, Peter; and Stolz, Robert, 4,689,982, Cl. 72-334.000.
Scholl, Herbert; and Brockmuller, Uwe, 4,699,529, Cl. 384-560.000.
Scholl, Herbert; and Brockmuller, Uwe, 4,702,626, Cl. 384-477.000.
Vogt, Gunter; and Winter, Heinrich, 4,687,350, Cl. 384-481.000.
Winter, Heinrich; and Kufner, Walter, 4,714,359, Cl. 384-571.000.

SKF GmbH, Schweinfurt: *See*—
Olschewski, Armin; Bauer, Bernhard; Zirk, Elisabeth; and Heemskerk, Rut, 4,637,740, Cl. 384-425.000.
Olschewski, Armin, 4,682,972, Cl. 464-130.000.
Olschewski, Armin; Brandenstein, Manfred; Hetterich, Hermann; and Kunkel, Heinrich, 4,696,083, Cl. 29-148.40C.
Winkler, Otmar; Peter, Heinz; Krug, Manfred; Kessler, Siegbert; and Feuerer, Ludwig, 4,666,386, Cl. 418-267.000.

SKF Industrial Trading and Development Company B.V.: *See*—
Bras, Johan C. M.; and Wevers, Hendrik W., 4,671,519, Cl. 277-134.000.
Bras, Johan Chr. M.; and Lankamp, Hermao D., 4,639,149, Cl. 384-477.000.
Gabelli, Antonio, 4,677,854, Cl. 73-794.000.
Gabelli, Antonio; and Zwarts, Jacobus, 4,703,662, Cl. 73-862.540.
Kapaan, Hendikus J., 4,668,111, Cl. 384-544.000.
Orte, Sven E. V., 4,645,362, Cl. 384-485.000.
Schalk, Bart, 4,700,443, Cl. 29-148.40C.
Verburgh, Martin B.; and Pfeiffle, Dieter, 4,691,092, Cl. 219-121.0LD.

SKF Kugallagerfabriken GmbH: *See*—
Brandenstein, Manfred, 4,712,928, Cl. 384-538.000.

SKF Kugellagerfabriken GmbH: *See*—
Brandenstein, Manfred; Hetterich, Hermann; and Horling, Peter, 4,640,632, Cl. 384-537.000.
Brandenstein, Manfred; Bonengel, Roland; and Dobhan, Herbert, 4,654,181, Cl. 264-328.120.
Brandenstein, Manfred; Haas, Roland; and Hans, Rudiger, 4,673,301, Cl. 384-428.000.
Klein, Werner, 4,633,695, Cl. 72-70.000.
Walter, Lothar; and Reith, Walter, 4,635,331, Cl. 29-148.40R.

SKF Mekanprodukter AB: *See*—
Karlsson, Ove; Ostling, Sture; and Adolfsson, Rune, 4,697,937, Cl. 384-486.000.

SKF Nova AB: *See*—
Adolfsson, Rune, 4,645,047, Cl. 192-12.00B.
Adolfsson, Rune, 4,673,375, Cl. 464-145.000.
Adolfsson, Rune, 4,693,351, Cl. 192-48.920.
Lind, Bjorn, 4,706,966, Cl. 277-27.000.
Lundgren, Bengi, 4,645,395, Cl. 411-210.000.
Lundgren, Bengt; and Adolfsson, Rune, 4,669,911, Cl. 403-344.000.

SKF Steel Engineering AB: *See*—
Astner, Gunnar; and Sjostrom, Sten-Ove, 4,706,943, Cl. 266-265.000.
Hammarskog, Bjorn, 4,643,742, Cl. 55-20.000.
Santen, Sven, 4,635,573, Cl. 110-346.000.
Santen, Sven; and Ledin, Ivar, 4,652,725, Cl. 219-121.0PY.
Santen, Sven; and Johansson, Borje, 4,687,513, Cl. 75-88.000.
Santen, Sven; Bernhard, Ragnar; and Malmeblad, Sven-Erik, 4,692,209, Cl. 162-30.100.
Santen, Sven; Eriksson, Sven; and Bernhard, Ragnar, 4,710,269, Cl. 162-30.100.
Thornblom, Jan; and Astner, Gunnar, 4,638,489, Cl. 373-24.000.

SKF-Textilmaschinen-Komponenten GmbH: *See*—
Braun, Ernst, 4,701,652, Cl. 310-112.000.

SKF Textilmaschinen-Komponenten GmbH: *See*—
Glock, Alfred, 4,683,711, Cl. 57-81.000.

Skidmore, John: *See*—
Pshtissky, Yacov A.; Horn, Donald N.; and Skidmore, John, 4,700,230, Cl. 358-181.000.

Skidmore, John E.: *See*—
McCullough, Michael J.; McKibben, Gary E.; and Skidmore, John E., 4,696,840, Cl. 220-462.000.

Skiwars, Inc.: *See*—
Dunford, Scott V., 4,670,911, Cl. 2-209.000.
Dunford, Scott V.; and Daw, Ryan S., 4,698,851, Cl. 2-160.000.

Ski Corporation: *See*—
Wong, Jun G., 4,678,871, Cl. 200-1.00V.

Skiles, David O.: *See*—
Ramachandran, Sundaresan; Skiles, Davis O.; and Hansen, Donald J., 4,701,309, Cl. 423-20.000.

Skiles, Jerry W.: *See*—
Huang, Fu-chih; Suh, John T.; and Skiles, Jerry W., 4,703,037, Cl. 514-19.000.
Youssefyeh, Raymond D.; Skiles, Jerry W.; Suh, John T.; and Jones, Howard, 4,686,295, Cl. 548-226.000.

Skiles, Richard D.: *See*—
Pilgram, Kurt H.; and Skiles, Richard D., 4,659,858, Cl. 558-81.000.

Skillen, John D.; Coons, Melvin S.; and Brannstrom, Olav H., to Shell-er-Globe, Inc. Sealing element for flush mounted movable automobile window. 4,649,668, 3-17-87, Cl. 49-374.000.

Skillern, Robert M., to Lid-Claw Inc. Multipurpose tool. 4,658,455, 4-21-87, Cl. 7-105.000.

Skillicorn, Brian, to Kevex Corporation. Modular portable X-ray source with integral generator. 4,646,338, 2-24-87, Cl. 378-110.000.

Skillicorn, Brian, to Kevex Corporation. Hand held precison X-ray source. 4,694,480, 9-15-87, Cl. 378-119.000.

Skilling, John B.: *See*—
Paton, H. Neil; and Skilling, John B., 4,637,320, Cl. 105-406.100.

Skillman, Ernest F., to Burlington Industries, Inc. Twister bobbin lifter and carrier. 4,688,838, 8-25-87, Cl. 294-67.500.

Skinner, A. Homer; and Skinner, Graham T. Sailboat battens. 4,633,798, 1-6-87, Cl. 114-107.000.

Skinner, Alan A. Automotive non-pressure cooling system. 4,677,943, 7-7-87, Cl. 123-41.270.

Skinner, Bruce A. J.: *See*—
Woudenberg, Cornelius; and Skinner, Bruce A. J., 4,664,098, Cl. 128-53.000.

Skinner, Dale D., to Westinghouse Electric Corp. Shaded transducer. 4,672,592, 6-9-87, Cl. 367-159.000.

Skinner, Daniel S., Jr.: *See*—
Davis, Robert C.; Gibson, John W.; Skinner, Daniel S., Jr.; Dearth, Timothy E.; and Harris, Dale C., 4,649,042, Cl. 424-438.000.

Skinner, David J.; Okazaki, Kenji; and Adam, Colin M., to Allied Corporation. Low density aluminum alloys and method. 4,661,172, 4-28-87, Cl. 148-12.70A.

Skinner, David J.; Bye, Richard L., Jr.; Okazaki, Kenji; and Adam, Colin M., to Allied Corporation. Aluminum-iron-vanadium alloys having high strength at elevated temperatures. 4,715,893, 12-29-87, Cl. 75-249.000.

Skinner, Geoffrey F.; Kowal, Wieslaw M.; and Linton, Stephen D., to Foster Wheeler USA Corporation. Production of ammonia synthesis gas. 4,636,334, 1-13-87, Cl. 252-377.000.

Skinner, Geoffrey F., to Foster Wheeler USA Corporation. Heat recovery system. 4,638,765, 1-27-87, Cl. 122-7.00R.

Skinner, Graham T.: *See*—
Skinner, A. Homer; and Skinner, Graham T., 4,633,798, Cl. 114-107.000.

Skinner, Harry W.; Skinner, James W.; O'Donnell, William F.; and Skinner, William O., to Press-Seal Gasket Corporation. Slipline adjustable manhole seal. 4,702,645, 10-27-87, Cl. 405-154.000.

Skinner, James L., to Atlantic Richfield Company. Method and apparatus for controlling sand accumulation in a producing wellbore. 4,653,586, 3-31-87, Cl. 166-278.000.

Skinner, James L., to Atlantic Richfield Company. Drilling cuttings treatment. 4,683,963, 8-4-87, Cl. 175-66.000.

Skinner, James L., to Atlantic Richfield Company. Apparatus for removal of wellbore particles. 4,694,901, 9-22-87, Cl. 166-77.000.

Skinner, James R., to M. U. Engineering & Manufacturing, Inc. Rhodium coated mold. 4,690,370, 9-1-87, Cl. 249-114.00R.

Skinner, James W.: *See*—
Skinner, Harry W.; Skinner, James W.; O'Donnell, William F.; and Skinner, William O., 4,702,645, Cl. 405-154.000.

Skinner, Jerald P.; Zlotky, Richard A.; and Diel, Robert L. Foundation system for ground-mounted masts. 4,714,225, 12-22-87, Cl. 248-523.000.

Skinner, John A.: *See*—
Munn, Ernest A.; and Skinner, John A., 4,700,368, Cl. 377-8.000.

Skinner, Maurice W.: *See*—
Doroszkowski, Andrew; and Skinner, Maurice W., 4,690,837, Cl. 427-314.000.

Skinner, Michael J.: *See*—
Metcalf, Eric; Ormiston, Peter; Skinner, Michael J.; and Pike, Bruce J., 4,663,965, Cl. 73-49.300.

Skinner, Raymond N.: *See*—
Watt, Robert J.; Obst, Brian W.; and Skinner, Raymond N., 4,666,391, Cl. 425-122.000.

Skinner, Robert L.: *See*—
Erwin, Douglas A.; and Skinner, Robert L., 4,691,295, Cl. 364-900.000.

Skinner, Wilfred A.: *See*—
Heller, Jorge; Skinner, Wilfred A.; Saito, Kenichiro; and Satoh, Susumu, 4,710,497, Cl. 514-221.000.

Skinner, William O.: *See*—
Skinner, Harry W.; Skinner, James W.; O'Donnell, William P.; and Skinner, William O., 4,702,645, Cl. 405-154.000.

Skipka, Guido; and Durholz, Friedrich, to Bayer Aktiengesellschaft. Process for the preparation of 4,4'-dinitrostilbene-2,2'-disulphonic acid salts. 4,680,146, 7-14-87, Cl. 260-505.00R.

Skipper, Claud, to Productive Instrument & Machine Inc. Fireplug anti-theft apparatus. 4,690,167, 9-1-87, Cl. 137-382.000.

Skipper, Richard S.: *See*—
Pithouse, Kenneth B.; Jones, Thomas P. H.; Lowe, Frank J.; and Skipper, Richard S., 4,639,545, Cl. 174-36.000.

Skipworth, Jerry D.: *See*—
Brickner, Louis C., Jr.; and Skipworth, Jerry D., 4,694,720, Cl. 83-471.300.

Skis Lacroix S.A.: *See*—
Lacroix, Daniel, 4,667,977, Cl. 280-602.000.

Skis Rossignol S.A.: *See*—
Abondance, Roger; Corbet, Pierre; Jodelet, Francois; and Andre, Jean-Francois, 4,714,267, Cl. 280-615.000.
LeGrand, Maurice; and DeBorde, Henri C., 4,671,529, Cl. 280-610.000.
Longeray, Remi; Lanteri, Pierre; Mathia, Thomas; Jodelet, Francois; and Segura, Serge, 4,705,815, Cl. 521-160.000.

Skiscim, Ronald J., to Interez, Inc. Phosphate esters of acrylated glycidyl ester copolymers. 4,657,983, 4-14-87, Cl. 525-255.000.

Skjerseth, Douglas N., to Seth Products, Inc. Adjustable multi-leaf table. 4,686,910, 8-18-87, Cl. 108-153.000.

Skjerven, Perkristian: *See*—
Gudbrandsen, Gunnar F.; Skjerven, Perkristian; and Bjerkvoll, Bjorn S., 4,643,098, Cl. 102-513.000.

Skjold, A. Christopher; Hugl, Herbert; and Wolfrum, Gerhard, to Miles Laboratories, Inc. Composition and test device for determining the presence of leukocytes containing a zwitterion coupling agent. 4,637,979, 1-20-87, Cl. 435-19.000.

Skjold, A. Christopher: *See*—
Corey, Paul F.; Skjold, A. Christopher; Pendergrass, James H.; and Stover, Lonnie, 4,657,855, Cl. 435-19.000.

Skjoldebrand, Christina: *See*—
Jakobsson, Maja; Skjoldebrand, Christina; and Sjoholm, Ingegerd, 4,647,469, Cl. 426-524.000.

Skjoveland, Odd: *See*—
Melaug, Ole; Havrevold, Sveinung B.; and Skjoveland, Odd, 4,708,090, Cl. 119-51.00R.

Sklar, David H.: *See*—
Barkan, Eric F.; and Sklar, David H., 4,676,610, Cl. 351-169.000.

Sklarski, Dennis J.; and Doyle, Arthur F., to Essex Group, Inc. Neoalkoxy titanate in high density mica laminates. 4,637,852, 1-20-87, Cl. 156-307.400.

Sklarski, Dennis J.; and Doyle, Arthur F., to Essex Group, Inc. Mica product. 4,683,162, 7-28-87, Cl. 428-182.000.

Sklarski, Dennis J.: *See*—
Doyle, Arthur F.; and Sklarski, Dennis J., 4,707,209, Cl. 156-307.400.

Sklavounos, Constantine, to Pfizer Inc. Biotin intermediates. 4,709,044, 11-24-87, Cl. 548-321.000.

Skolel, Max. Releasable clasp. 4,651,390, 3-24-87, Cl. 24-625.000.

Skoda, Hans D.: *See*—
Drawert, Manfred; Krase, Horst; and Skoda, Hans D., 4,698,396, Cl. 525-420.500.

Skoda, koncernovy podnik: *See*—
Gabriel, Karel; Smolik, Frantisek; Steif, Eduard; and Sabek, Vaclav, 4,652,785, Cl. 310-325.000.

Skoda, Ulrich: *See*—
Frommann, Klaus; Skoda, Ulrich; and Meyer, Peter, 4,698,897, Cl. 29-527.700.

Skoden, koncernovy podnik: *See*—
Altmann, Josef; and Beran, Bohuslav, 4,680,091, Cl. 202-205.000.

Skoe, Ivar H.: *See*—
Mowill, Rolf J.; and Skoe, Ivar H., 4,657,481, Cl. 415-151.000.

Skoet, Georg; and Guertler, Hanne, to Novo Industri A/S. Xylose isomerase (glucose isomerase) from *Streptomyces murinus* cluster. 4,687,742, 8-18-87, Cl. 435-234.000.

Skog, Just: *See*—
Gjestrum, Einar; Dragsund, Inge; Skog, Just; and Selvag, Svein, 4,686,660, Cl. 367-153.000.

Skogberg, Bo T.; and Romell, Gunnar V. R., to Atlas Copco Aktiebolag. Method of rock bolting and tube-formed expansion bolt. 4,634,317, 1-6-87, Cl. 405-259.000.

Skogberg, Bo T.: *See*—
Granstrom, Bengt P. O.; and Skogberg, Bo T., 4,661,021, Cl. 405-244.000.

Skogerson, Lawrence E.: *See*—
Ahern, William P.; Andrist, Dale F.; and Skogerson, Lawrence E., 4,676,987, Cl. 426-41.000.

Skogg, George A., to Nelson Paint Company, The. Washable marking fluid formulation for soft gelatin capsules and use thereof. 4,634,606, 1-6-87, Cl. 427-256.000.

Skogler, Brian T.; Nyhof, Eldon J.; and Katsma, William L., to Donnelly Corporation. Vehicular mirror and light assembly. 4,646,210, 2-24-87, Cl. 362-142.000.

Skogmo, Phillip J.; and Tucker, Tillman J., to United States of America, Energy. Explosive-driven, high speed, arcless switch. 4,680,434, 7-14-87, Cl. 200-61.080.

Skogward, Kenneth O. E., to Husqvarna Aktiebolag. Sewing machine thread take-up lever. 4,660,482, 4-28-87, Cl. 112-241.000.

Skokos, Peter G.; and Sobel, Alvin A. Combined form for visual matter, written descriptions and mailing envelopes. 4,638,940, 1-27-87, Cl. 229-92.300.

Skold, Bo P.: *See*—
Jungnell, Jarl O.; and Skold, Bo P., 4,648,619, Cl. 280-650.000.

Skolnick, Barry: *See*—
Scharr, Jerome M.; and Skolnick, Barry, 4,676,857, Cl. 156-233.000.

Skolnik, Edward G.: *See*—
Heaton, Harley L., III; Lippold, Joseph H., Jr.; McHale, Edward T.; and Skolnik, Edward G., 4,687,490, Cl. 44-51.000.

Skonezny, Paul M.: *See*—
Vyas, Dolatrai M.; and Skonezny, Paul M., 4,644,072, Cl. 549-433.000.

Skoog, Hans; Holmqvist, Ulf; and Tellden, Leif, to ASEA AB. Industrial robot having two gimbal-ring type arranged swinging axes. 4,710,092, 12-1-87, Cl. 414-729.000.

Skoog, Karl I. L., to Telefonaktiebolaget LM Ericsson. Apparatus for synchronizing pulse trains in a digital telephone system. 4,697,278, 9-29-87, Cl. 375-114.000.

Skoog, Kurt, to Stubinen Utveckling AB. Method of and apparatus for burning liquid and/or solid fuels in pulverized from. 4,679,512, 7-14-87, Cl. 110-347.000.

Skopek, Karl. Adjustable stamp. 4,706,564, 11-17-87, Cl. 101-111.000.

Skorka, Thomas: *See*—
Graf, Lothar; Maerte, Leo; and Skorka, Thomas, 4,694,977, Cl. 222-259.000.

Skostins, Olgerts, to Dow Corning Corporation. Method of manufacture of fiber reinforced silicone elastomer. 4,640,951, 2-3-87, Cl. 524-266.000.

Skostins, Olgerts: *See*—
Lamont, Peter; Monroe, Carl M.; and Skostins, Olgerts, 4,701,491, Cl. 524-493.000.

Skotheim, Terje; and Armand, Michel. Photoelectro-chemical cell for conversion of solar energy to electricity and method of its manufacture. 4,637,969, 1-20-87, Cl. 429-111.000.

Skotnicki, Jerauld S.; and Commons, Thomas J., to American Home Products Corporation. C-3' acylaminooxy-7-[(2-ammothiazol-4-yl)-α-(substituted-oximino)acetyl]cephalosporin derivatives. 4,692,517, 9-8-87, Cl. 540-222.000.

Skoutas, James P., to Cherry Semiconductor Corporation. 50% duty cycle relaxation oscillator with latch-up prevention circuit. 4,679,006, 7-7-87, Cl. 331-111.000.

Skovajsa, Joseph. Device for ski training. 4,676,183, 7-7-87, Cl. 272-97.000.

Skovajsa, Joseph. Portable device for transporting skis. 4,699,415, 10-13-87, Cl. 294-147.000.

Skovdal, Jorgen; Santhouse, Daniel; Jensen, Borge; and Carlucci, Vito, to Clairol Incorporated. Hairsetter system for electrically heating hair rollers. 4,680,444, 7-14-87, Cl. 219-222.000.

Skover, Nick, Jr.: *See*—
Mondloch, Michael J.; and Skover, Nick, Jr., 4,705,271, Cl. 272-130.000.

Skovgaard, Helge; and Johansen, Kent. Apparatus for recording the speed of a vehicle. 4,692,882, 9-8-87, Cl. 364-565.000.

Skovhauge, Erik; and Simonsen, Karl, to Pasilac A/S. Apparatus for producing acid and heat coagulated types of cheese. 4,655,127, 4-7-87, Cl. 99-455.000.

Skovhoj, Jens B. Lawn trimmer. 4,663,920, 5-12-87, Cl. 56-12.700.

Skovhoj, Jens B. Lawn and garden maintenance apparatus. 4,689,940, 9-1-87, Cl. 56-228.000.

Skovmand, Timothy J.; and Mottola, Michael J., to National Semiconductor Corporation. Latching comparator with hysteresis. 4,642,486, 2-10-87, Cl. 307-362.000.

Skow, Lawrence H., to Raytheon Company. High voltage dynamic focusing system. 4,639,644, 1-27-87, Cl. 315-382.000.

Skowbo, James W.: *See*—
Feigenbaum, Barry A.; Sachsenmaier, Robert; and Skowbo, James W., 4,644,470, Cl. 364-200.000.

Skowron, Eugene: *See*—
Riley, Kenneth E.; and Skowron, Eugene, 4,642,861, Cl. 29-38.00A.

Skowronski, Michael J.: *See*—
Londrigan, Michael E.; and Skowronski, Michael J., 4,714,717, Cl. 521-131.000.

Skoza, Thomas E.: *See*—
Holy, Stephen M., 4,682,774, Cl. 273-84.00R.

Skraba, Frank W., to Phillips Petroleum Company. Method for temporarily storing fluids. 4,660,588, 4-28-87, Cl. 137-8.000.

Skraba, Frank W., to Phillips Petroleum Company. Flowing catalyst particles in annular stream around a plug in lift pot. 4,675,099, 6-23-87, Cl. 208-157.000.

Skraba, Frank W., to Phillips Petroleum Company. Catalytic cracking apparatus. 4,681,743, 7-21-87, Cl. 422-140.000.

Skriba, Michael C.: *See*—
Murray, Alexander P.; Becker, Lawrence F., Jr.; Slater, Clifton G.; and Skriba, Michael C., 4,685,971, Cl. 134-2.000.

Skrobek, Harald: *See*—
Jeromin, Luiz; Krings, Heinrich; Legel, Dieter; Novotny, Rudolf; and Skrobek, Harald, 4,676,953, Cl. 422-106.000.

Skrobisch, Alfred. Torque limiting clutches controlled by permanent magnet means. 4,651,856, 3-24-87, Cl. 192-56.00R.

Skrobol, Christian: *See*—
Dabelstein, Klaus; and Skrobol, Christian, 4,693,601, Cl. 356-237.000.

Skryabin, Georgy K.: *See*—
Redikultsev, Jury V.; Litvinenko, Leonid A.; Golovlev, Evgeny L.; Golovleva, Ljudmila A.; Chermensky, Dmitry N.; and Skryabin, Georgy K., 4,686,189, Cl. 435-289.000.

Skryantz, John S.: *See*—
Karayannis, Nicholas M.; Skryantz, John S.; and Johnson, Bryce V., 4,657,882, Cl. 502-115.000.

Skrypzak, Werner: *See*—
Quack, Jochen M.; Reng, Alwin; Skrypzak, Werner; and Kunz, Walter, 4,654,163, Cl. 252-312.000.

Skrzypczak, Jean-Michel, to Thomson-CSF. Delay device and the use thereof in the decoding device of distance measuring equipment. 4,677,439, 6-30-87, Cl. 342-47.000.

Skuballa, Werner; Raduchel, Bernd; Vorbruggen, Helmut; Mannesmann, Gerda; Losert, Wolfgang; and Casals-Stenzel, Jorge, to Schering Aktiengesellschaft. Novel prostacyclin derivatives and a process for the preparation thereof. 4,692,464, 9-8-87, Cl. 514-530.000.

Skuballa, Werner; Raduchel, Bernd; Vorbruggen, Helmut; Elger, Walter; and Loge, Olaf, to Schering Aktiengesellschaft. 9-halo-2-prostaglandin derivatives, processes for the preparation thereof and use thereof as medicinal agents. 4,699,920, 10-13-87, Cl. 514-530.000.

Skuballa, Werner; Raduchel, Bernd; Schwarz, Norbert; Vorbruggen, Helmut; Casals-Stenzel, Jorge; Schillinger, Ekkehard; and Town, Michael H., to Schering Aktiengesellschaft. Novel carbacyclins, their preparation and use. 4,708,963, 11-24-87, Cl. 514-530.000.

Skudera, William J., Jr.; and Konig, Charles E., to United States of America, Army. Saw transition detector for PSK signals. 4,647,863, 3-3-87, Cl. 329-112.000.

Skudera, William J., Jr.: *See*—
Mariani, Elio A.; and Skudera, William J., Jr., 4,639,695, Cl. 333-133.000.

Skudrna, Anthony J.: *See*—
Fedder, Stephen C.; and Skudrna, Anthony J., 4,641,152, Cl. 346-137.000.

Skupien, Eugene M. Clutch apparatus for spring making machine. 4,696,175, 9-29-87, Cl. 72-135.000.

Skura, William A.: *See*—
Slonewsky, Alexander R.; and Skura, William A., 4,662,863, Cl. 474-251.000.

Skuratovsky, Eugene: *See*—
Knudsen, James K.; Smith, Jane E.; Budan, Victor J.; Wroblewski, David J.; and Skuratovsky, Eugene, 4,679,445, Cl. 73-861.240.

Skurka, James A., to Sloan Valve Company. Means for connecting a brake rod to the lever arm of an automatic slack adjuster. 4,643,279, 2-17-87, Cl. 188-79.50K.

Skurka, Joseph C.: *See*—
Hornsby, William S.; Skurka, Joseph C.; and Summers, Hayward P., 4,666,665, Cl. 419-48.000.

Skursha, Susan K.: *See*—
Malone, Gilbert R.; Skursha, Susan K.; and Jost, Robert M., 4,710,474, Cl. 436-60.000.

Skuthan, Erich, to Karl M. Reich Maschinenfabrik GmbH. Anti-jamming nose plate for driving apparatus for fasteners. 4,641,772, 2-10-87, Cl. 227-123.000.

Skutnik, Bolesh J.; and Brielmann, Harry L., Jr., to Ensign-Bickford Industries, Inc. Coating compositions for optical fibers. 4,707,076, 11-17-87, Cl. 350-96.340.

Skvaril, Joseph. Self-containing package system for storage and transportation of pre-fabricated portions of a building structure and the assembly thereof. 4,640,412, 2-3-87, Cl. 206-321.000.

SKW Trostberg AG: *See*—
Plank, Johann; and Aignesberger, Alois, 4,666,979, Cl. 525-54.210.

SKW Trostberg Aktiengesellschaft: *See*—
Aignesberger, Alois; and Plank, Johann, 4,657,593, Cl. 106-90.000.
Bruckmann, Heinz; Wolfsgruber, Friedrich; and Weiser, Ernst A., 4,643,768, Cl. 420-578.000.
Ebeling, Joachim; Friedrich, Peter; Jekat, Herbert; Lugscheider, Walter; Riegler, Ernst; Zajicek, Ernst; Achleitner, Walter; and Jarema, Ferdinand, 4,644,557, Cl. 373-22.000.
Jekat, Herbert; Schutz, Erwin; and Stork, Kurt, 4,687,547, Cl. 159-3.000.
Rust, Ulrich, 4,692,415, Cl. 436-20.000.
Stork, Kurt; Reitsamer, Peter; and Schultz, Richard, 4,704,080, Cl. 425-314.000.
von Seyerl, Joachim, 4,705,842, Cl. 528-88.000.

Sky-Top Sunroofs, Ltd.: *See*—
Hanley, Martin G.; Gowan, James L.; and Deschamps, Robert L., 4,650,243, Cl. 296-221.000.
Hanley, Martin G.; Gowan, James L.; and Deschamps, Robert L., 4,652,045, Cl. 296-221.000.

Skyaluminium Co., Ltd.: *See*—
Takizawa, Kazushige; Sakaki, Hirokazu; Abe, Yuji; Matsuo, Mamoru; Tajiri, Akira; and Tsuchida, Shin, 4,686,083, Cl. 420-548.000.

Skyba, Helmut K. Cam lock. 4,648,483, 3-10-87, Cl. 182-187.000.

Skyba, Helmut K. Tree step. 4,669,575, 6-2-87, Cl. 182-92.000.

Skyba, Helmut K. Elastic tie-down with rope adjustment means. 4,694,541, 9-22-87, Cl. 24-301.000.

Skylight Industry Co. Ltd.: *See*—
Ohashi, Keiichi, 4,682,275, Cl. 362-191.000.

Skyline Products, Inc.: *See*—
Stadjuhar, Robert C.; and Renfro, Cecil S., 4,680,883, Cl. 40-471.000.

Skylite Industry Co., Ltd.: *See*—
Ohashi, Keiichi, 4,704,663, Cl. 362-206.000.
Ohashi, Keiichi, 4,709,310, Cl. 362-205.000.

Slabaugh, Edward J., to Comptech, Incorporated. Substrate rotation method and apparatus. 4,650,064, 3-17-87, Cl. 198-631.000.

Slabbekoorn, Scott D.: *See*—
Anselmino, Jeffrey; and Slabbekoorn, Scott D., 4,709,488, Cl. 34-235.000.

Slabinski, Chet J.: *See*—
Dolsen, Phillip C.; and Slabinski, Chet J., 4,652,873, Cl. 340-825.500.

Slaboszewski, Dale R.: *See*—
Brady, Cathereine D.; Metcalfe, Lincoln D.; Slaboszewski, Dale R.; and Frank, Dieter, 4,678,580, Cl. 210-490.000.

Slachetka, Joseph P.: *See*—
Noorily, Peter; and Slachetka, Joseph P., 4,682,836, Cl. 439-426.000.

Slachta, Joseph J.: *See*—
Congdon, John C.; Richter, Thomas A.; and Slachta, Joseph J., 4,689,773, Cl. 367-3.000.

Slade, Boyd E.: *See*—
Mower, Dan C.; Wolf, Peter H.; Slade, Boyd E.; and Albertalli, David, 4,713,623, Cl. 328-72.000.

Slade, James R., Jr.; and Sterba, Richard F. Barbell support apparatus for weight lifting exercising. 4,709,922, 12-1-87, Cl. 272-123.000.

Slade, James R., Jr.: *See*—
Sterba, Richard F.; and Slade, James R., Jr., 4,700,944, Cl. 272-117.000.

Slade, Louise; Oltzik, Rhoda; Altomare, Robert E.; and Medcalf, Darrell G., to General Foods Corporation. Accelerated staling of starch based products. 4,657,770, 4-14-87, Cl. 426-549.000.

Slade, Luman C. Safety lock apparatus for an electrical plug. 4,640,107, 2-3-87, Cl. 70-57.000.

Slade, Michael G.; Moscicki, John M.; and Greene, John F., to Keilty, Goldsmith & Boone. Performance appraisal and training system and method of utilizing same. 4,671,772, 6-9-87, Cl. 434-219.000.

Sladen, Francis: *See*—
Logan, Maurus C.; and Sladen, Francis, 4,673,242, Cl. 350-96.200.

Slafer, Warren D.; and Walworth, Vivian K., to Polaroid Corporation. Method for forming a photosensitive silver halide element. 4,663,274, 5-5-87, Cl. 430-567.000.

Slaghuis, Hans: *See*—
van der Meer, Jelle; and Slaghuis, Hans, 4,668,257, Cl. 55-267.000.

Slaker, Frank A.: *See*—
Archibald, G. Kent; and Slaker, Frank A., 4,637,817, Cl. 604-81.000.
Archibald, G. Kent; and Slaker, Frank A., 4,673,389, Cl. 604-81.000.
Archibald, G. Kent; and Slaker, Frank A., 4,714,463, Cl. 604-81.000.

Slama, Karel: *See*—
Holy, Antonin; Rosenberg, Ivan; and Slama, Karel, 4,659,825, Cl. 544-244.000.

Slamon, Dennis J.: *See*—
Cline, Martin J.; and Slamon, Dennis J., 4,699,877, Cl. 435-6.000.

Slansky, Harry: *See*—
Gansert, Willi; Lochbrunner, Eduard; and Slansky, Harry, 4,713,573, Cl. 310-329.000.

Slapke, Jurgen: *See*—
Schewe, Tankred; Strumpf, Thomas; Rapoport, Samuel M.; Zanke, Dieter; Slapke, Jurgen; Kuhn, Hartmut; Lyr, Horst; and Grupe, Renate, 4,670,469, Cl. 514-575.000.

Slappey, L. Marvin, Jr. Field stripping key punch. 4,700,500, 10-20-87, Cl. 42-90.000.

Slapsys, Michael, to Donn Incorporated. Linear panel ceilings and the like. 4,646,506, 3-3-87, Cl. 52-772.000.

Slapvagnskopplingar AB: *See*—
Gustavsson, Hans; and Bystedt, Christer, 4,645,226, Cl. 280-423.00A.

Slasinski, Arthur L., to Weldex, Inc. Die assembly. 4,660,403, 4-28-87, Cl. 72-389.000.

Slat, William A.; Darr, Richard C.; Dunlap, Richard L.; and Larson, Craig A., to Plastipak Packaging, Inc. In-mold label dispenser for blow molding machine. 4,639,207, 1-27-87, Cl. 425-503.000.

Slat, William A., to Plastipak Packaging, Inc. Blow molded plastic container having plastic label. 4,662,528, 5-5-87, Cl. 215-12.00R.

Slater, Andrew J.: *See*—
Johnson, Jeffrey C.; Rothon, Stephen; and Slater, Andrew J., 4,704,952, Cl. 98-115.200.

Slater, Clifton G.: *See*—
Murray, Alexander P.; Slater, Clifton G.; and White, Robert W., 4,657,596, Cl. 134-3.000.

Murray, Alexander P.; Becker, Lawrence F., Jr.; Slater, Clifton G.; and Skriba, Michael C., 4,685,971, Cl. 134-2.000.

Slater, Daniel A.; Meredith, William A.; and Devaney, Mark J., to Eastman Kodak Company. Simplified test element advancing mechanism having positive engagement with element. 4,710,352, 12-1-87, Cl. 422-63.000.

Slater Electric Inc.: *See*—
Freeman, LeRoy M., 4,688,133, Cl. 361-45.000.
Freeman, LeRoy M.; Gernhardt, Paul D.; and Orbeta, Ferdinand E., 4,688,134, Cl. 361-45.000.

Slater, Eve E.: *See*—
Liang, Theming; and Slater, Eve E., 4,710,469, Cl. 435-194.000.

Slater, Frank W., to Southeastern Research and Development, Inc. Two-wheeled cycle. 4,657,273, 4-14-87, Cl. 280-271.000.

Slater, Frank W., to Southeastern Research and Development, Inc. Domino carrying case, gameboard and game piece turning and shuffling device. 4,705,275, 11-10-87, Cl. 273-309.000.

Slater, Jack, to Cano International, N.V. Panel structure and building structure made therefrom. 4,641,468, 2-10-87, Cl. 52-309.400.

Slater, Richard A. M.: *See*—
Knapp, Alan G.; Overall, Colin D.; and Slater, Richard A. M., 4,713,575, Cl. 313-400.000.

Slater, Robert A., to Smith Kline & French Laboratories Limited. Vasodilators and β-adrenoceptor antagonists. 4,652,563, 3-24-87, Cl. 514-247.000.

Slater, Robert A., to Smith Kline & French Laboratories Limited. 6-(cyanoguanidinophenyl)pyridazinones as cardiac stimulants. 4,654,342, 3-31-87, Cl. 514-247.000.

Slater, Robert A.: *See*—
Emmett, John C.; Slater, Robert A.; and Warrington, Brian H., 4,657,906, Cl. 514-234.000.
Roe, Anthony M.; Coates, William J.; Slater, Robert A.; Breukelman, Stephen P.; and Meakins, George D., 4,678,786, Cl. 514-247.000.

Slater, William L.: *See*—
Richter, George N.; and Slater, William L., 4,676,805, Cl. 48-197.00R.

Slatter, John A. G.: *See*—
Shannon, John M.; Slatter, John A. G.; and Coe, David J., 4,646,115, Cl. 357-15.000.

Slatter, Richard C.: *See*—
Weir, Donald A., deceased; Walsh, William A. G.; and Slatter, Richard C., 4,707,831, Cl. 370-94.000.

Slattery, Francis R., to RCA Corporation. Low resistance tunnel. 4,712,126, 12-8-87, Cl. 357-71.000.

Slattery, Gordon C., to Brunswick Corporation. Shallow water tilt mechanism for outboard motors. 4,637,800, 1-20-87, Cl. 440-55.000.

Slattery, Ian, to Spencer Wright Industries, Inc. Tufting machine for overtufting. 4,693,190, 9-15-87, Cl. 112-80.300.

Slattery, William J.: *See*—
Elias, Kenneth L.; Martin, Stuart R.; and Slattery, William J., 4,659,585, Cl. 427-5.000.

Slaugh, Lynn H.; and Schoenthal, Galeon W., to Shell Oil Company. Vinylidene olefin process. 4,658,078, 4-14-87, Cl. 585-512.000.

Slaugh, Lynn H.; and Schoenthal, Galeon W., to Shell Oil Company. Stabilization of metallocene/aluminoxane catalysts. 4,665,047, 5-12-87, Cl. 502-108.000.

Slaugh, Lynn H., to Shell Oil Company. Well acidization with alpha-hydroxysulfonic acid. 4,669,545, 6-2-87, Cl. 166-300.000.

Slaugh, Lynn H., to Shell Oil Company. Chlorine resistant shift gas catalyst. 4,683,218, 7-28-87, Cl. 502-302.000.

Slaughter, Bobby L.: *See*—
Fassler, Friedbert; Kigyos, Frank; and Slaughter, Bobby L., 4,635,313, Cl. 15-193.000.

Slaughter, Ivan K.: *See*—
Johnson, David J.; McGinnis, Mark L.; Turner, William H.; and Slaughter, Ivan K., 4,667,986, Cl. 285-24.000.
Turner, William H.; and Slaughter, Ivan K., 4,673,041, Cl. 166-340.000.

Slaughter, John E.; and Terrell, Robert B., to Texas Instruments Incorporated. Modular, vision system for automation of inspection and process control. 4,706,120, 11-10-87, Cl. 358-103.000.

Slautterback Corporation: *See*—
Faulkner, W. Harrison, III, 4,641,764, Cl. 222-146.200.
Faulkner, W. Harrison, III, 4,659,016, Cl. 239-135.000.
Marshall, Lee, 4,635,820, Cl. 222-63.000.

Slavens, Clyde M., to CRC-Evans Pipeline International, Inc. Welding carriage. 4,635,839, 1-13-87, Cl. 228-29.000.

Slavik, Walter; and Luz, Rudolf, to Rieter Machine Works, Ltd. Thread reserve forming device. 4,662,574, 5-5-87, Cl. 242-18.0PW.

Slavik, Walter; Engeli, Ernst; and Lattion, Andre, to Rieter Machine Works, Ltd. Locating device for service tender. 4,685,283, 8-11-87, Cl. 57-263.000.

Slavik, Walter: *See*—
Engeli, Ernst; and Slavik, Walter, 4,703,617, Cl. 57-263.000.
Graber, Werner; and Slavik, Walter, 4,707,976, Cl. 57-263.000.

Slavik, William H.; Carlson, William P.; Cepynsky, George L.; Dussault, Paul G.; Margison, Steven E.; and Wolf, James A., Jr., to Nuvatec, Inc. Data entry terminal and memory module therefor. 4,682,958, 7-28-87, Cl. 434-335.000.

Slavin, Michael: *See*—
Northman, Bradley L.; Slavin, Michael; and West, Donald J., 4,678,006, Cl. 137-596.170.

Slavin, Sidney H. Spinning optics device. 4,698,564, 10-6-87, Cl. 318-257.000.

Slavkin, Harold C.; Snead, Malcolm L.; Woo, Savio L. C.; and Zeichner-David, Margarita, to University of Southern California. Dental enamel production. 4,672,032, 6-9-87, Cl. 435-68.000.

Slavkovsky, Jan: *See*—
Blaskovits, Pavol; Lesnak, Stefan; Martisik, Alojz; Zajac, Jan; Slavkovsky, Jan; Turiansky, Ladislav; and Levius, Rudolf, 4,707,581, Cl. 219-73.110.

Slayman, Charles W.; and Figueroa, Luis, to Hughes Aircraft Company. Heterostructure interdigital high speed photoconductive detector. 4,696,648, 9-29-87, Cl. 437-5.000.

Slayton, Danny L.: *See*—
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,652,115, Cl. 355-14.0TR.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,697,920, Cl. 355-14.0CH.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,699,079, Cl. 118-658.000.
Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,705,385, Cl. 355-4.000.

Sleat, William E.: *See*—
Margulis, Walter; Sibbett, Wilson; and Sleat, William E., 4,693,566, Cl. 356-121.000.

Slebzak, Gary R.; Thompson, John H.; and Douglas, George R., to Westinghouse Electric Corp. Transducer assembly with explosive shock protection. 4,704,709, 11-3-87, Cl. 367-158.000.

Sleder, Richard L.: *See*—
Bracht, Jeffrey L.; Heinrich, Martin W.; van Maaren, Richard D.; and Sleder, Richard L., 4,677,940, Cl. 123-2.000.

Slee, Roger H., to AE Plc. Manufacture of pistons. 4,638,694, 1-27-87, Cl. 82-18.000.

Slee, Roger H., to AE PLC. Machine tools. 4,646,595, 3-3-87, Cl. 82-2.00B.

Sleeman, Scott L.: *See*—
Brown, Amos W.; and Sleeman, Scott L., 4,670,087, Cl. 156-212.000.

Sleep, Robert. Indicator device for a heat exchanger. 4,682,647, 7-28-87, Cl. 165-11.100.

Sleeter, Donald D.; von Alven, Raymond D.; and Fernwood, George G., to Bio-Rad Laboratories, Inc. Electrophoresis apparatus for nucleic acid sequencing. 4,663,015, 5-5-87, Cl. 204-299.00R.

Sleever International: *See*—
Fresnel, Jacques, 4,660,357, Cl. 53-585.000.

Sleffel, William M., to Kerr-McGee Corporation. Pulse accumulator network adapted for use in a flow monitoring system. 4,700,568, 10-20-87, Cl. 73-195.000.

Sleger, Roger R.; and Walsh, Edward, to Hewlett-Packard Company. Actuator arm bearing preload arrangement for a rotary disc drive. 4,682,255, 7-21-87, Cl. 360-106.000.

Slegers, Frans: *See*—
Nellen, Johannes H. M.; Slegers, Frans; Otten, Johannes H. B.; and Kole, Johannus W. G., 4,660,139, Cl. 363-68.000.

Sleigh, Rodney P., to Allspeeds Holding Limited. Fastener splitter device. 4,698,909, 10-13-87, Cl. 30-180.000.

Slemmer, Janos; and Schroter, Gottfried, to Dragerwerk Aktiengesellscaft. Control for respirators. 4,694,825, 9-22-87, Cl. 128-205.240.

Slettemoen, Gudmunn. Measuring and mapping vibrations. 4,689,993, 9-1-87, Cl. 73-579.000.

Sletten, William C., II, to Advance Machine Company. Portable extractor. 4,709,442, 12-1-87, Cl. 15-320.000.

Sletzinger, Meyer: *See*—
Verhoeven, Thomas R.; McNamara, James M.; and Sletzinger, Meyer, 4,645,854, Cl. 560-60.000.

Slezak, Pavel J.: *See*—
Haas, Werner; Hilker, Dieter; and Slezak, Pavel J., 4,633,823, Cl. 123-41.610.

Slicer, Allan E.; and Whitney, Robert L., to Square D Company. Electrical distribution system having an improved splice joint between busway sections. 4,705,334, 11-10-87, Cl. 439-210.000.

Slicer, Allan E.: *See*—
Jorgensen, George N.; McGoldrick, Gilbert A.; and Slicer, Allan E., 4,673,229, Cl. 439-207.000.
McGoldrick, Gilbert A.; and Slicer, Allan E., 4,714,431, Cl. 439-212.000.

Slickbar Products Corp.: *See*—
Smith, Millard F., 4,696,318, Cl. 134-73.000.

Slicker, Steven D.: *See*—
Uecker, Ronald T.; and Slicker, Steven D., 4,709,963, Cl. 297-316.000.

Slide Management Systems, Inc.: *See*—
Lamb, Owen L.; and Maclay, William R., 4,693,373, Cl. 209-3.300.

Slidex Corporation: *See*—
Ozeki, Jiro, 4,635,796, Cl. 206-456.000.
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Slifkin, Malcolm, to Allegheny-Singer Research Institute. Stain-fixative composition for enteric parasites. 4,666,699, 5-19-87, Cl. 424-7.100.

Slifkin, Malcolm, to Allegheny-Singer Research Institute. Dry form micronitrous acid streptococci extraction-agglutination test. 4,673,639, 6-16-87, Cl. 435-36.000

Sliger, A. Glenn; O'Donnell, James J.; Cares, W. Ronald; and Northup, Aldrich H., Jr., to M. W. Kellogg Company, The. Sulfur dioxide removal process. 4,634,582, 1-6-87, Cl. 423-243.000.
Sliger, Boyd P.; and Wagner, Joseph P., to Robertshaw Controls Company. Valve construction and method of making the same. 4,691,861, 9-8-87, Cl. 236-34.500.
Slik Tripod Co., Ltd.: *See*—
Kosugi, Yoshinobu; and Tachibana, Kaoru, 4,697,772, Cl. 248-183.000.
Sliker, Larry: *See*—
Ryan, James M.; Golden, Sanford S.; and Sliker, Larry, 4,678,229, Cl. 297-68.000.
Slim-Societa Lavorazioni Industriali Metalli S.p.A.: *See*—
Mitchell, Randolph N., 4,658,615, Cl. 72-16.000.
Slimmon, Philip J. Sports accessory. 4,698,854, 10-13-87, Cl. 2-338.000.
Slimp, Jack B., Jr.: *See*—
Keska, Tadeusz W., 4,638,999, Cl. 273-258.000.
Slingerland, Robert E., to NL Industries, Inc. Water-based drilling fluids having enhanced fluid loss control. 4,650,593, 3-17-87, Cl. 252-8.500.
Slingerland, Robert E., to NL Industries, Inc. Water-based drilling fluids having enhanced fluid loss control. 4,652,606, 3-24-87, Cl. 525-54.200.
Slinn, David: *See*—
Murray, Peter; and Slinn, David, 4,648,901, Cl. 75-68.00R.
Sliski, Alan P.: *See*—
Shambroom, John R.; and Sliski, Alan P., 4,686,531, Cl. 340-870.370.
Walker, David M.; Sliski, Alan P.; Harte, Kenneth J.; and Carrona, John J., 4,661,709, Cl. 250-396.00R.
Walker, David M.; and Sliski, Alan P., 4,667,108, Cl. 250-396.00R.
SLM Corporation: *See*—
Vajtay, Laselo, deceased, 4,700,883, Cl. 229-125.170.
SLM Investissements SA: *See*—
Siegmann, Hans-Christoph; Burtscher, Heinz; and Schmidt-Ott, Andreas, 4,652,866, Cl. 340-628.000.
Sloan, Alex; and Rennie, Lyall. Liquid recovery unit. 4,691,407, 9-8-87, Cl. 15-339.000.
Sloan, Donald R.: *See*—
Seyler, Gerard; and Sloan, Donald R., 4,658,481, Cl. 24-704.000.
Sloan, Frank P. Vehicle cover structure. 4,668,007, 5-26-87, Cl. 296-136.000.
Sloan, George C.; and Laine, David J. Compact personal hygiene center. 4,680,817, 7-21-87, Cl. 4-663.000.
Sloan, Harry W., to Samac, Inc. Article depositing apparatus. 4,668,149, 5-26-87, Cl. 414-80.000.
Sloan, Haskell F.: *See*—
Jenkins, Jerry V.; Sloan, Haskell F.; Frenkel, Robert L.; and Zielinski, Albert, 4,707,251, Cl. 209-569.000.
Sloan-Kettering Institute: *See*—
Fradet, Yves; Cordon-Cardo, Carlos; Whitemore, Willet F., Jr.; Melamed, Myron R.; Old, Lloyd J.; and Lloyd, Kenneth O., 4,643,971, Cl. 435-240.000.
Lloyd, Kenneth O.; Old, Lloyd J.; Karlsson, Karl-Anders; Larson, Goran; Stromberg, Nicklas; Thurin, Jan; Anger, Bernd R.; and Oettgen, Herbert F., 4,678,747, Cl. 435-7.000.
Mattes, M. Jules; Lewis, John L., Jr.; Lloyd, Kenneth O.; Old, Lloyd J.; and Cordon-Cardo, Carlos, 4,666,845, Cl. 435-240.000.
Safai, Bijan; Boyse, Edward A.; and Shen, Fung-Win, 4,649,115, Cl. 435-240.000.
Sloan-Kettering Institute for Cancer Research: *See*—
Bander, Neil H.; Whitmore, Willet F.; and Old, Lloyd J., 4,713,352, Cl. 436-548.000.
Bockman, Richard S.; and Warrell, Raymond P., Jr., 4,686,104, Cl. 424-131.000.
Bockman, Richard S.; and Warrell, Raymond P., Jr., 4,704,277, Cl. 424-131.000.
Cairncross, J. Gregory; Mattes, M. Jules; Beresford, H. Richard; Albino, Anthony P.; Houghton, Alan N.; Lloyd, Kenneth O.; and Old, Lloyd J., 4,642,291, Cl. 435-240.000.
Cote, Richard J.; Thomson, Timothy M.; Houghton, Alan N.; Oettgen, Herbert F.; Old, Lloyd J.; and Cardo, Carlos C., 4,695,538, Cl. 435-7.000.
Dupont, Bo; Hoffman, Michael K.; Collins, Nancy; Yang, Soo Y.; Morishima, Yasuo; and Kobayashi, Masahide, 4,677,056, Cl. 435-7.000.
Dupont, Bo; Morishima, Yasuo; Collins, Nancy; Ogata, Shun-ichiro; and Lloyd, Kenneth O., 4,710,457, Cl. 435-7.000.
Erickson, Bruce W.; Fok, Kam-Fook; Incefy, Genevieve S.; and Ohga, Kazuhiro, 4,634,682, Cl. 436-518.000.
Hammerling, Ulrich; Koo, Gloria C.; and Tada, Nobuhiko, 4,680,258, Cl. 435-7.000.
Houghton, Alan N.; Brooks, Hannah; Cote, Richard J.; Oettgen, Herbert F.; and Old, Lloyd J., 4,693,966, Cl. 435-7.000.
Old, Lloyd J.; Lloyd, Kenneth O.; Oettgen, Herbert F.; Whitmore, Willet F.; Szkudlarek, Jerzy; Finstad, Connie L.; Morrissey, Donna; Ogata, Shun-ichiro; and Ueda, Ryuzo, 4,650,756, Cl. 435-68.000.
Palladino, Michael, 4,683,199, Cl. 435-68.000.
White, Bruce A.; and Bancroft, F. Carter, 4,677,054, Cl. 435-6.000.
Sloan-Kettering Memorial Cancer Center: *See*—
Fox, Jack J.; Watanabe, Kyoichi A.; Lopez, Carlos; and Trepo, Christian G., 4,666,892, Cl. 514-49.000.
Sloan Technology Corporation: *See*—
Hall, Paul H.; Riley, Steven A.; and Rizos, Robert G., 4,669,300, Cl. 73-105.000.
Sloan Valve Company: *See*—
Lissau, Frederic, deceased, 4,643,008, Cl. 70-167.000.
Schmitt, Eugene W.; and Campbell, Robert E., 4,648,661, Cl. 303-23.00R.
Skurka, James A., 4,643,279, Cl. 188-79.50K.
Sloane, Edwin A.: *See*—
Urschel, William J.; and Sloane, Edwin A., 4,673,917, Cl. 340-347.0CC.
Sloane, Maurice W.; and Sikina, Thomas V., to RCA Corporation. High current lateral transistor structure. 4,684,970, 8-4-87, Cl. 357-35.000.
Sloate, Harry M. Rotary servo valve. 4,674,539, 6-23-87, Cl. 137-625.640.
Sloate, Harry M. Pilot controlled valves. 4,683,915, 8-4-87, Cl. 137-625.630.
Slob, Arie: *See*—
Hart, Cornelis M.; and Slob, Arie, 4,714,842, Cl. 307-477.000.
Slobodkin, Yefim, to Avery International Corporation. Apparatus for constant pressure in line-web crush-scoring. 4,678,457, 7-7-87, Cl. 493-355.000.
Slobodkin, Yefim, to Avery International Corporation. Apparatus for constant pressure diagonal-web crush-scoring. 4,698,052, 10-6-87, Cl. 493-355.000.
Slobodnik, Andrew J., Jr.; Stiglitz, Martin R.; Roberts, George A.; and Webster, Richard T., to United States of America, Air Force. Dielectric resonator oscillators with digital temperature compensation. 4,712,078, 12-8-87, Cl. 331-99.000.
Slocum, Alexander H. Mechanisms to determine position and orientation in space. 4,676,002, 6-30-87, Cl. 33-1.0MP.
Slocum, Alexander H.; and Peris, James P., to United States of America, Commerce. Method and mechanism for fixturing objects. 4,685,661, 8-11-87, Cl. 269-20.000.
Slocum, Alexander H.; and Peris, James P., to United States of America, Commerce. Micromanipulator system. 4,694,230, 9-15-87, Cl. 318-568.000.
Slocum, Barclay. Proximal, tibial osteotomy for leveling a tibial plateau. 4,677,973, 7-7-87, Cl. 128-92.0VW.
Slodzian, Georges; Costa De Beauregard, Francois; Daigne, Bernard; and Girard, Francois, to Office National d'Etudes et de Recherches Aerospatiales (ONERA); and Universite de Paris-sud. High clarity mass spectrometer capable of multiple simultaneous detection. 4,638,160, 1-20-87, Cl. 250-296.000.
Slodzian, Georges; Chaintreau, Marcel; Dennebouy, Roger; and Lorin, Jean-Claude, to Thomson-CSF. Mass spectrometers. 4,672,204, 6-9-87, Cl. 250-298.000.
Slodzian, Georges; Daigne, Bernard; and Girard, Francois, to Office National d'Etudes et de Recherches Aerospatiales (ONERA); and Universite de Paris-Sud. Instrument for very high resolution ionic micro-analysis of a solid sample. 4,694,170, 9-15-87, Cl. 250-309.000.
Sloma, Alan, to Public Health Research Institute of the City of New York. Expression and secretion vectors and method of constructing vectors. 4,663,280, 5-5-87, Cl. 435-68.000.
Sloma, Alan, to Bristol-Myers Company. Alpha Interferon GX-1. 4,695,543, 9-22-87, Cl. 435-70.000.
Slominski, Leo J., to MacDermid, Incorporated. Method for electroless deposition of copper on conductive surfaces and on substrates containing conductive surfaces. 4,671,968, 6-9-87, Cl. 427-12.000.
Slomp, Albert H.: *See*—
Bierhoff, Martinus P. M.; van Mil, Job F. P.; Schoofs, Franciscus A. C. M.; and Slomp, Albert H., 4,663,749, Cl. 369-44.000.
Schoofs, Franciscus A. C. M.; Bierhoff, Martinus P. M.; Van Mil, Job F. P.; and Slomp, Albert H., 4,689,501, Cl. 307-362.000.
Schoofs, Franciscus A. C. M.; Bierhoff, Martinus P. M.; Van Mil, Job F. P.; and Slomp, Albert H., 4,712,091, Cl. 340-347.0DA.
Slomski, Bruce A.: *See*—
Ryan, Charles W.; and Slomski, Bruce A., 4,645,861, Cl. 564-99.000.
Slonaker, William H.: *See*—
Weiss, John; and Slonaker, William H., 4,646,406, Cl. 29-157.00R.
Sloniewsky, Alexander R.; and Skura, William A., to Uniroyal Power Transmission Co., Inc. Double-acting power transmission belt. 4,662,8o3, 5-5-87, Cl. 474-251.000.
Slonina, Jean P., to Biomasys Sarl. Heterotopic artificial heart consisting of a one-piece cardiac prosthesis for biventricular assistance and implantable in the right hemithorax. 4,704,120, 11-3-87, Cl. 623-3.000.
Slonina, Jean-Pierre: *See*—
Lapeyre, Didier; and Slonina, Jean-Pierre, 4,654,033, Cl. 604-175.000.
Sloop, Clifford E., Sr. Barrel lock assembly. 4,704,881, 11-10-87, Cl. 70-158.000.
Sloop, Conrad B.: *See*—
Ohlig, Ernest; and Sloop, Conrad B., 4,707,125, Cl. 355-94.000.
Sloot, Alexander, to Printmark, Inc. Book jacket. 4,715,619, 12-29-87, Cl. 281-19.00R.
Slosberg, David K.; and Nowell, Gilbert S., to Compo Industries, Inc. Flame retardant tufted carpet tile and method of preparing same. 4,689,256, 8-25-87, Cl. 428-95.000.
Slosberg, David K.; and Nowell, Gilbert S., to Compo Industries, Inc. Floor mat and method of manufacture. 4,689,258, 8-25-87, Cl. 428-141.000.
Slosberg, David K.; Reece, David S.; and Claessen, Johannes A. H., to Heuga Holding b.v. Bitumen backed carpet tile and method of production. 4,702,950, 10-27-87, Cl. 428-95.000.
Slosberg, David K.; and Nowell, Gilbert S., to Compo Industries, Inc. Reinforced foam anti-fatigue floor tile module and method of making same. 4,710,415, 12-1-87, Cl. 428-48.000.

Slosiarek, Michael L.; and Wagner, Robert J., to Deutz-Allis Corporation. Downwardly swinging replaceable air filter for a vehicle cab. 4,648,311, 3-10-87, Cl. 98-2.110.

Slotboom, David R.: *See—*
Andersson, Anders O.; Slotboom, David R.; and Topness, Paul C., 4,651,566, Cl. 73-589.000.

Slotboom, Jan W.; Maas, Henricus G. R.; Appels, Johannes A.; and Klaassen, Francois M., to U.S. Philips Corporation. Charge coupled devices having narrow coplanar silicon electrodes. 4,636,826, 1-13-87, Cl. 357-24.000.

Slotboom, Jan W.; Harwig, Hendrik A.; and Pelgrom, Marcellinus J. M., to U.S. Philips Corporation. Charge-coupled device having a buffer electrode. 4,669,100, 5-26-87, Cl. 377-60.000.

Slough, Carlton M., to Texaco Inc. Electrostatic field meter. 4,642,559, 2-10-87, Cl. 324-72.000.

Sloumb, Robert C.: *See—*
Koerschner, Lou A.; Sloumb, Robert C.; and Weber, William E., 4,651,507, Cl. 53-461.000.

Slovenska vysoka skola technicka: *See—*
Mackrle, Vladimir; and Mackrle, Svatopluk, 4,664,794, Cl. 210-188.000.

Slovik, David M.: *See—*
Neer, Robert M.; Potts, John T., Jr.; and Slovik, David M., 4,698,328, Cl. 514-12.000.

Sluetz, James E.; Pless, Benjamin D.; and Spehr, Paul R., to Intermedics, Inc. Pacemaker lead with enhanced sensitivity. 4,662,382, 5-5-87, Cl. 128-785.000.

Sluijter, Robert J.; and Kotmans, Hendrik J., to U.S. Philips Corporation. Speech analysis system. 4,637,046, 1-13-87, Cl. 381-49.000.

Sluijter, Robert J.: *See—*
van Wijk, Franciscus J. A.; van Meerbergen, Jozef L.; Welten, Fransiscus P. J. M.; and Sluijter, Robert J., 4,689,738, Cl. 364-200.000.

Sluijterman, Albertus A. S.: *See—*
Nieuwendijk, Joris A. M.; Heijnemans, Werner A. L.; Sluijterman, Albertus A. S.; and Vink, Nicolaas G., 4,703,232, Cl. 315-370.000.

Sluis, Simon J., to Royal Sluis Koninklijke Zaaizaadbedrijven Gebroeders Sluis B.V. Process for bringing pregerminated seed in a sowable and for some time storable form, as well as pilled pregerminated seeds. 4,658,539, 4-21-87, Cl. 47-57.600.

Slusarchyk, William A.; and Koster, William H., to E. R. Squibb & Sons, Inc. [3S(Z)]-2-[[[1-(2-amino-4-thiazolyl)-2-[[2,2-dimethyl-4-oxo-1-(sulfooxy)-3-azetidinyl]amino]-2-oxoethylidene]-aminooxy] acetic acid and intermediate. 4,638,061, 1-20-87, Cl. 540-355.000.

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Slusarchyk, William A.; and Dejneka, Tamara, to E. R. Squibb & Sons, Inc. Certain carbamate ester derivatives forming salts with pyridinium or picolinium cations which are useful as intermediates. 4,694,083, 9-15-87, Cl. 546-14.000.

Slusarczyk, Joseph Z.; and Slusarczyk, Nancy L. Container for liquids. 4,691,828, 9-8-87, Cl. 206-509.000.

Slusarczyk, Nancy L.: *See—*
Slusarczyk, Joseph Z.; and Slusarczyk, Nancy L., 4,691,828, Cl. 206-509.000.

Slusher, Robert B.; Wallace, Robert E.; Goldsborough, John P.; and Voss, Gary C., to Spectra-Physics, Inc. Fast axial flow carbon dioxide laser. 4,672,620, 6-9-87, Cl. 372-58.000.

Sluss, Elmer C.; Nettleton, John E.; and Barr, Dallas N., to United States of America, Army. Perforated electrodes for efficient gas transfer in CW CO_2 waveguide lasers. 4,710,941, 12-1-87, Cl. 372-87.000.

Sluss, Gene T.: *See—*
Baskett, Ira E.; and Sluss, Gene T., 4,716,547, Cl. 365-96.000.

Sluss, Patrick M.; and Reichert, Leo E., Jr., to Research Corporation. Bacterial FSH binding inhibitor. 4,652,450, 3-24-87, Cl. 424-115.000.

Slutsky, Gary S.: *See—*
Kabb, Harold L.; Flint, John R.; Videlock, Gary B.; Niazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J.; and Friedrich, Paul H., 4,699,504, Cl. 355-20.000.

Sluyter, Erik; and Wooff, Edward A., Jr., to Circon Corporation. Focusable video camera for use with endoscopes. 4,639,772, 1-27-87, Cl. 358-98.000.

Sluyterman, Albertus A. S., to U.S. Philips Corporation. Color television display tube with coma correction. 4,710,671, 12-1-87, Cl. 313-413.000.

SM Industrial Co., Ltd.: *See—*
Nakamura, Daijiro, 4,651,940, Cl. 242-55.000.
Nakamura, Daijiro, 4,681,279, Cl. 242-107.300.

Smabathavner a.s: *See—*
Creed, John, 4,697,539, Cl. 114-266.000.

Smaga, John A.: *See—*
Kaun, Thomas D.; and Smaga, John A., 4,687,717, Cl. 429-152.000.

Smahlik, Michael A., to Steccone Products Company, Inc. Squeegee. 4,697,296, 10-6-87, Cl. 15-245.000.

Smaich, Mark: *See—*
D'Aleo, Michael J.; and Smaich, Mark, 4,695,820, Cl. 338-179.000.

Smailos, Emanuel: *See—*
Koester, Rainer; Smailos, Emanuel; Schwarzkopf, Werner; and Kiesow, Arthur, 4,702,391, Cl. 220-456.000.

Smale, Geoffrey A., to Larnaston Limited. Sails. 4,672,907, 6-16-87, Cl. 114-103.000.

Small, Catherine J.: *See—*
Jackson, Randy D.; Woodman, Mary F.; and Small, Catherine J., 4,669,752, Cl. 280-824.000.

Small, Hamish; and Mani, Inder, to Dow Chemical Company, The. Method of making a coating and a permselective membrane, ionic polymer therefor, and products thereof. 4,705,636, 11-10-87, Cl. 210-638.000.

Small, Hamish: *See—*
Stevens, Timothy S.; and Small, Hamish, 4,696,904, Cl. 436-39.000.

Small, Irwin A. Method of applying a chin implant, drill guide tool and implant. 4,713,077, 12-15-87, Cl. 623-16.000.

Small, James G.: *See—*
McClung, Frederick J., Jr.; and Small, James G., 4,700,068, Cl. 250-251.000.

Small, John D. Disposable floor mat. 4,644,592, 2-24-87, Cl. 4-583.000.

Small, Kenneth T., to Boschert, Incorporated. Proportional transistor base drive circuit for use in power converters and components thereof. 4,694,389, 9-15-87, Cl. 363-132.000.

Small, Larry A., to Data General Corporation. Method and apparatus for storing and retrieving keyboard LED data. 4,684,934, 8-4-87, Cl. 340-712.000.

Small, Leonard E.; Garrison, Paul H., Jr.; Winkler, William M.; Seaman, Sharon A.; and Papa, Alyce J., to Procter & Gamble Company, The. Ultra mild skin cleansing composition. 4,673,525, 6-16-87, Cl. 252-132.000.

Small, Mark S. Propeller tunnel baffle and method. 4,689,026, 8-25-87, Cl. 440-66.000.

Small, Maynard E. Automated sweepstakes-type game. 4,669,730, 6-2-87, Cl. 273-138.00A.

Small, Maynard E. Bingo game involving promotional coupons. 4,711,454, 12-8-87, Cl. 273-269.000.

Small, Thomas J. Extraction device. 4,669,341, 6-2-87, Cl. 81-418.000.

Small, Thomas R., to Johns Hopkins University, The. Vibration dissipation mount for motors or the like. 4,679,761, 7-14-87, Cl. 248-609.000.

Small, Vernon R.: *See—*
Liston, Thomas V.; Lowe, Warren; and Small, Vernon R., 4,643,838, Cl. 252-52.00R.

Small, William M., to Phillips Petroleum Company. Baffle. 4,660,631, 4-28-87, Cl. 165-159.000.

Small, William M.: *See—*
Gentry, Cecil C.; and Small, William M., 4,633,940, Cl. 165-159.000.
Gentry, Cecil C.; and Small, William M., 4,709,755, Cl. 165-160.000.

Smallegan, Jon M., to Schlage Lock Company. Door knob and door knob catch arrangement. 4,639,026, 1-27-87, Cl. 292-352.000.

Smallegan, Jon M., to Schlage Lock Company. Lock mechanism and a spring and cam assembly therefor. 4,682,802, 7-28-87, Cl. 292-337.000.

Smalley, Kenneth M.: *See—*
Conrad, George M.; and Smalley, Kenneth M., 4,697,096, Cl. 307-246.000.

Smalley, Robert B., Jr.: *See—*
Miller, John F.; Scivally, Jesse F.; and Smalley, Robert B., Jr., 4,651,764, Cl. 137-81.100.

Smalley, Robert L.; and Phifer, John E., to Milliken Research Corporation. Drum truck. 4,653,765, 3-31-87, Cl. 280-47.200.

Smallwood, Troy L.: *See—*
McCauley, Jon R.; Smallwood, Troy L.; and Welliver, Paul, 4,645,396, Cl. 411-387.000.

Smar, Eugene R.: *See—*
Gilbert, Jeffrey G.; Richenbacher, Alan G.; and Smar, Eugene R., 4,651,019, Cl. 307-43.000.

Smart, David L. Code tutoring system. 4,661,073, 4-28-87, Cl. 434-222.000.

Smart, Leonard G.; and Hui, Henry T., to CF Braun & Company. High temperature pipe and duct support. 4,709,886, 12-1-87, Cl. 248-49.000.

Smart, Mary. Self-retracting oxygen tubing. 4,685,456, 8-11-87, Cl. 128-205.220.

Smart, Michael W.: *See—*
Andrews, David K.; Benson, Trevor P.; and Smart, Michael W., 4,655,049, Cl. 62-172.000.

Smart, Nancy M.; and Smart, Ricky B. Electric outlet and plug. 4,690,474, 9-1-87, Cl. 439-120.000.

Smart, Ricky B.: *See—*
Smart, Nancy M.; and Smart, Ricky B., 4,690,474, Cl. 439-120.000.

Smart, Robert L. Motorized operator unit for manually adjustable fork mechanism. 4,688,982, 8-25-87, Cl. 414-667.000.

Smart, W. James, to CM & E/California, Inc. Industrial exhaust ventilation system. 4,714,010, 12-22-87, Cl. 98-115.400.

Smartt, Herschel B.: *See—*
Hood, Donald W.; Johnson, John A.; and Smartt, Herschel B., 4,712,722, Cl. 228-104.000.

Smathers, James A. Segmented snow plow apparatus. 4,669,205, 6-2-87, Cl. 37-232.000.

Smauley, David A.: *See—*
Cutburth, Ronald W.; and Smauley, David A., 4,703,921, Cl. 269-47.000.

Smayling, Michael C.: *See—*
D'Arrigo, Sebastiano; and Smayling, Michael C., 4,669,177, Cl. 29-571.000.
Tuvell, James A.; and Smayling, Michael C., 4,695,979, Cl. 365-185.000.
Tuvell, James A.; and Smayling, Michael C., 4,715,014, Cl. 365-185.000.

SMC Metal Tech Co., Ltd.: *See—*
Yung, Simon K. C., 4,697,605, Cl. 134-107.000.

Smedley, James L.; and Blair, Paul W. Telescoping water meter reading apparatus. 4,643,523, 2-17-87, Cl. 350-319.000.

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Haber, Terry M.; Smedley, William H.; and Foster, Clark B., 4,710,170, Cl. 604-110.000.

Smeds, Stig-Eric. Nutrient dispenser. 4,653,432, 3-31-87, Cl. 119-71.000.

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Smerbeck, Richard V.: *See—*
Pittz, Eugene P.; and Smerbeck, Richard V., 4,672,076, Cl. 514-544.000.

Smetana, Pavel: *See—*
Kim, Kyong-Min; Smetana, Pavel; and Westdorp, Wolfgang A., 4,659,423, Cl. 156-617.0SP.

Smetanine, Alexandre: *See—*
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Smeulers, Wouter, to U.S. Philips Corporation. Circuit for generating a triangular voltage. 4,651,025, 3-17-87, Cl. 307-228.000.

Smeyers, Pierre A., to Nakachian, Raymond J., a part interest. Distributor or dripper for the micro-irrigation of soils. 4,682,730, 7-28-87, Cl. 239-109.000.

SMH Alcatel: *See—*
Dimur, Gerard; and Vainpress, Frederic, 4,647,766, Cl. 250-227.000.
Gerbaud, Claude; and Tetard, Claude, 4,652,330, Cl. 156-361.000.
Peyre, Jacques, 4,656,903, Cl. 83-199.000.
Peyre, Jacques, 4,671,153, Cl. 83-203.000.

Smialkowski, Zozislaus. Applicator for dispensing fluids. 4,648,732, 3-10-87, Cl. 401-196.000.

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Spiers, Steven F.; Hinson, Harold T.; Smick, William H., III; Shelton, Gregory A.; and Grollimund, Everett C., 4,666,550, Cl. 156-361.000.

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Smid, Albert: *See—*
Braat, Josephus J. M.; and Smid, Albert, 4,668,056, Cl. 350-432.000.

Smidek, Otakar, to Von Roll AG. Elevator for transporting people and goods with an annular travelling cabin. 4,712,652, 12-15-87, Cl. 187-1.00R.

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Smigel, Irwin E. Method of manufacture of a toothpaste composition. 4,690,776, 9-1-87, Cl. 252-315.300.

Smigel, Robert L.: *See—*
Gelinas, William A.; Holtz, Edwin R.; Argazzi, Dennis J.; Smigel, Robert L.; and Wiley, Dan W., 4,661,190, Cl. 156-273.500.

Smilanich, Nicholas J.; and Wesner, John A., to Union Carbide Corporation. Coiled electrode assembly cell construction with pressure contact member. 4,663,247, 5-5-87, Cl. 429-94.000.

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Byron, Stanley R.; Burkes, Thomas; Petr, Rodney A.; and Smilanski, Israel, 4,668,896, Cl. 315-330.000.

Smiltneek, Ralmond J. Dump trailer. 4,659,147, 4-21-87, Cl. 298-20.00R.

Smirnov, Boris A.: *See—*
Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; Vyrzhikovskaya, Marina N.; and Smirnov, Boris A., 4,655,218, Cl. 128-321.000.
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Smirnov, Igor I.: *See—*
Lidorenko, Nikolai S.; Gorun, Viktor T.; Muchnik, Grigory F.; Karichev, Zia R.; Shteinberg, Alexandr N.; Lev, Mikhail B.; Moiseev, Viktor I.; Schegolev, Igor S.; Ilin, Vladimir M.; and Smirnov, Igor I., 4,666,668, Cl. 422-48.000.

Smirnov, Oleg V.: *See—*
Kostylev, Alexandr D.; Danilov, Boris B.; Smolyanitsky, Boris N.; Boginsky, Vladimir P.; Kogan, David I.; Smirnov, Oleg V.; and Saveliev, Vyacheslav N., 4,705,119, Cl. 175-92.000.

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Smit, Cornelis. Device for administering a liquid in a number of doses. 4,643,723, 2-17-87, Cl. 604-207.000.

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Smit, Francis J.; Horst, William E.; and Bhasin, Anirudh K., to Amax Inc. Oil-compatible coal/water mixtures. 4,713,086, 12-15-87, Cl. 44-51.000.

Smit, Gerard C., to Smitdesign B.V. Reservoir filling arrangement for a coffee machine. 4,713,526, 12-15-87, Cl. 219-332.000.

Smit, Nimrod J. J.: *See—*
Prinsloo, Paul M.; Botha, Theunis J.; van Schalkwyk, Jacobus C. J.; and Smit, Nimrod J. J., 4,674,628, Cl. 206-38.100.

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Smit, Gerard C., 4,713,526, Cl. 219-332.000.

Smith, Alan; and Patel, Bhupendra, to Hollingsworth (U.K.) Ltd. Transport conveyor for conical object. 4,648,502, 3-10-87, Cl. 198-399.000.

Smith, Alan M., to General Electric Company. Vandalism-resistant UHF antenna. 4,661,821, 4-28-87, Cl. 343-743.000.

Smith, Allan F.: *See—*
Shepley, Pete; Johnston, Richard; and Smith, Allan F., 4,697,350, Cl. 33-265.000.

Smith, Allen C., Jr., to Westinghouse Electric Corp. Sludge trap with internal baffles for use in nuclear steam generator. 4,649,868, 3-17-87, Cl. 122-32.000.

Smith, Allen C., Jr., to Westinghouse Electric Corp. Mechanical plug feeding mechanism. 4,699,306, 10-13-87, Cl. 227-53.000.

Smith, Allen C., Jr., to Westinghouse Electric Corp. Steam generator having an auxiliary recirculation path. 4,706,613, 11-17-87, Cl. 122-32.000.

Smith, Allen H., III, to SmithKline Beckman Corporation. Clean room system. 4,676,144, 6-30-87, Cl. 98-1.500.

Smith, Alvin D.; Smith, Darin E.; and Smith, Reed R. Long reach dropped wheel-line irrigation system. 4,700,897, 10-20-87, Cl. 239-741.000.

Smith, Andrea, to Sharpoint L.P. Suture winding card. 4,700,833, 10-20-87, Cl. 206-380.000.

Smith, Andrew H.: *See—*
Cresswell, Pearson J.; Grayson, Ian L.; and Smith, Andrew H., 4,668,485, Cl. 423-119.000.

Smith, Anthony P., to Imperial Chemical Industries PLC. Process start-up. 4,677,821, 7-7-87, Cl. 60-39.020.

Smith, Anthony R.: *See—*
Byrd, William A.; and Smith, Anthony R., 4,715,244, Cl. 74-467.000.

Smith, Arthur C., to Reichhold Chemicals, Inc. Aluminum complex coating compositions. 4,666,524, 5-19-87, Cl. 106-264.000.

Smith, Ashley P., to Gibson Machine Company. Lock and seal for dyeing spindle. 4,646,546, 3-3-87, Cl. 68-212.000.

Smith, Bernard: *See—*
Branovich, Louis E.; Freeman, Gerard L.; and Smith, Bernard, 4,708,681, Cl. 445-50.000.

Smith, Bob G.: *See—*
Christiansen, David W.; Karnesky, Richard A.; Precechtel, Donald R.; Smith, Bob G.; and Knight, Ronald C., 4,654,194, Cl. 376-443.000.

Smith, Bradley C.: *See—*
Smith, Wayne D.; and Smith, Bradley C., 4,674,602, Cl. 187-20.000.

Smith, Brett A. Exercising device. 4,657,245, 4-14-87, Cl. 272-117.000.

Smith, Brian D.: *See—*
Hayes-Pankhurst, Richard P.; and Smith, Brian D., 4,634,818, Cl. 200-5.00A.

Smith, Brian D. V.: *See—*
Robinson, Gordon D.; and Smith, Brian D. V., 4,675,832, Cl. 364-521.000.

Smith, Brian R.: *See—*
DeVries, Paul A.; Smith, Brian R.; and Parker, Jay S., 4,675,865, Cl. 370-85.000.

Smith, Bruce R.: *See—*
McIntyre, John M.; Birdwell, Jeffrey D.; and Smith, Bruce R., 4,654,104, Cl. 156-276.000.

Smith, Burl L.: *See—*
Pritikin, William B., deceased; Smith, Burl L.; and Bridgeford, Douglas J., 4,664,861, Cl. 264-173.000.

Smith, Carl R., to Ethicon, Inc. Surgical fastener made from polymeric blends. 4,646,741, 3-3-87, Cl. 128-334.00R.

Smith, Carol; and Pezzullo, Denise. Method and apparatus for the injection of pharmaceuticals. 4,650,475, 3-17-87, Cl. 604-189.000.

Smith, Cecil R.: *See—*
Engelbrecht, Filluppus T.; Potgieter, Frederick D.; Smith, Cecil R.; and Helmig, Michael A., 4,660,286, Cl. 30-276.000.

Smith, Chadwick F.: *See—*
Philippbar, Jay E.; Smith, Chadwick F.; and Sutter, Leroy V., Jr., 4,715,372, Cl. 128-303.100.

Smith, Charles. Omni-directional display device. 4,695,929, 9-22-87, Cl. 362-140.000.

Smith, Charles A.: *See—*
Poppelsdorf, Fedor; and Smith, Charles A., 4,649,226, Cl. 568-864.000.

Smith, Charles E. Fishing lure. 4,712,325, 12-15-87, Cl. 43-42.240.

Smith, Charles M.: *See—*
Wagner, Earl F.; and Smith, Charles M., 4,684,101, Cl. 249-144.000.

Smith, Christopher D. Continuously variable torque converter. 4,644,206, 2-17-87, Cl. 310-115.000.

Smith, Clark K. Gutter system and method of manufacture. 4,667,448, 5-26-87, Cl. 52-12.000.

Smith, Clinton R.: *See—*
Brewster, Phillip W.; Smith, Clinton R.; and Gowland, Frederick W., 4,683,069, Cl. 252-32.70E.

Brewster, Phillip W.; and Smith, Clinton R., 4,707,285, Cl. 252-50.000.

Smith, Clive S.: *See*—
Lovelock, Richard K.; and Smith, Clive S., 4,674,637, Cl. 211-46.000.

Smith, Clyde. Optical communication of video information with distortion correction. 4,654,891, 3-31-87, Cl. 455-617.000.

Smith, Clyde. Optical communication of video and audio with crosstalk suppression. 4,689,826, 8-25-87, Cl. 455-613.000.

Smith, Colin G.: *See*—
Dawes, Cyril; and Smith, Colin G., 4,713,122, Cl. 148-16.600.

Smith, D. Frederick; and Goodsmith, James E., to T. M. Smith Tool International Corp. Quick change spindle adapter for tool holder. 4,710,079, 12-1-87, Cl. 409-234.000.

Smith, Dale C., to Dolly Varden Fishing Lures. Cyclic fishing lure containing a slidable fishhook assembly. 4,640,040, 2-3-87, Cl. 43-42.000.

Smith, Dale K.; Donich, Thomas G.; Dickerson, Bobby V.; and Leader, Raymond E., to Rockwell International Corporation. Meteor scatter burst communication system. 4,685,149, 8-4-87, Cl. 455-56.000.

Smith, Daniel J.: *See*—
Gressett, Charles A., Jr.; Page, John F.; Smith, Daniel J.; and Carruthers, John, 4,677,891, Cl. 84-313.000.

Smith, Daniel P., to Morgan Construction Company. Air preheating system for continuous fired furnace. 4,666,403, 5-19-87, Cl. 432-54.000.

Smith, Daniel P.; and Lillquist, Robert D., to General Electric Company. Stimulated scanning infrared imaging system. 4,682,222, 7-21-87, Cl. 358-113.000.

Smith, Daniel R. Fluorescent light fixture with removable ballast. 4,674,015, 6-16-87, Cl. 362-217.000.

Smith, Daniel W.: *See*—
Basinsky, Michael J.; Bird, Dale T.; and Smith, Daniel W., 4,618,971, Cl. 248-678.000.

Smith, Darin E.: *See*—
Smith, Alvin D.; Smith, Darin E.; and Smith, Reed R., 4,700,897, Cl. 239-741.000.

Smith, Darrel E., to Ingersoll Cutting Tool Company, The. Thread-cutting apparatus. 4,645,386, 2-24-87, Cl. 407-113.000.

Smith, Darrell F., Jr.: *See*—
Smith, John S.; and Smith, Darrell F., Jr., 4,685,978, Cl. 148-142.000.

Smith, Darren A.; and Thompson, Ian R., to Orbital Engine Company Proprietary Limited. Fuel injection system. 4,712,524, 12-15-87, Cl. 123-198.00A.

Smith, David A.; and Geiger, Herbert B., to Dow Chemical Company, The. Gripper finger device. 4,647,031, 3-3-87, Cl. 271-82.000.

Smith, David A.; and Geiger, Herbert B., to Dow Chemical Company, The. Article transport arrangement. 4,702,471, 10-27-87, Cl. 271-284.000.

Smith, David B.; and Miller, Randolph F., to Precor Incorporated. Exercise rowing machine. 4,695,050, 9-22-87, Cl. 272-72.000.

Smith, David C.; and Noto, Richard, to RCA Corporation. Routing method in computer-aided-customization of universal arrays and resulting integrated circuit. 4,636,965, 1-13-87, Cl. 364-491.000.

Smith, David C. Safety roller assembly for bracket mounting to the top or rear face of rotary lawn mower deck. 4,638,622, 1-27-87, Cl. 56-17.400.

Smith, David C.: *See*—
Lewis, Ivor A. S.; and Smith, David C., 4,647,772, Cl. 250-288.000.
Noto, Richard; and Smith, David C., 4,686,629, Cl. 364-491.000.

Smith, David E., to Aspen Peripherals. Guide for restoring and removing a tape leader block to and from a tape cassette. 4,681,278, 7-21-87, Cl. 242-195.000.

Smith, David E.; Olmsted, Dennis R.; and Fryberger, Joseph A., to Aspen Peripherals. Device for positioning a tape threader pin in a take-up reel. 4,709,873, 12-1-87, Cl. 242-195.000.

Smith, David E.: *See*—
Matthews, Kenneth B.; Beckett, Christine A.; Smith, David E.; and Davidson, Richard R., 4,711,727, Cl. 210-727.000.

Smith, David F.; and Wilson, J. Pierre, to Altus Corporation. Moving piston seal activator. 4,642,275, 2-10-87, Cl. 429-52.000.

Smith, David G. Combined rain gauge and weather vane. 4,665,744, 5-19-87, Cl. 73-171.000.

Smith, David G.: *See*—
Ainsworth, Anthony T.; and Smith, David G., 4,654,371, Cl. 514-555.000.

Smith, David J., to Amoco Corporation. Electrodeposition of lithium. 4,713,151, 12-15-87, Cl. 204-58.500.

Smith, David J.: *See*—
Gogins, Katharina A. Z.; and Smith, David J., 4,647,462, Cl. 426-270.000.

Smith, David J. H.: *See*—
Alper, Howard; and Smith, David J. H., 4,634,780, Cl. 549-273.000.
Alper, Howard; Smith, David J. H.; and Woell, James B., 4,642,370, Cl. 560-100.000.
Alper, Howard; Shim, Sang C.; and Smith, David J. H., 4,661,619, Cl. 560-100.000.
Alper, Howard; and Smith, David J. H., 4,665,213, Cl. 560-105.000.
Alper, Howard; Despeyroux, Bertrand; Smith, David J. H.; and Woell, James B., 4,681,707, Cl. 260-410.90R.
Alper, Howard; and Smith, David J. H., 4,694,097, Cl. 560-24.000.
Alper, Howard; and Smith, David J. H., 4,704,481, Cl. 568-658.000.
Alper, Howard; and Smith, David J. H., 4,705,880, Cl. 558-257.000.

Smith, David M., to Ramtek Corporation. Feedback vector generato for storage of data at a selectable rate. 4,646,262, 2-24-87, Cl 364-900.000.

Smith, David M., to Ramtek Corporation. Method and apparatus fo generating surface-fill vectors. 4,667,306, 5-19-87, Cl. 364-900.000.

Smith, David N. Bow motor assembly and motor lift mechanism 4,668,195, 5-26-87, Cl. 440-6.000.

Smith, David R.: *See*—
Pfenninger, Billy J.; Smith, David R.; and Weast, David H. 4,660,651, Cl. 172-311.000.
Poyser, Thomas D.; Avery, Randall N.; Bankoske, John W.; Borst John D.; Kimblin, Clive W.; Maxwell, Albert H.; McElroy David W.; Peterson, Charles A.; Rostron, Joseph R.; Smith David R.; South, William H.; and Thomas, Michael W. 4,654,806, Cl. 364-551.000.

Smith, David S.; and Kamins, Harold W., to Chevron Research Company. System for controlling solid transport. 4,685,842, 8-11-87, Cl. 406-106.000.

Smith, David S., to Chevron Research Company. System for controlling solid transport. 4,687,382, 8-18-87, Cl. 406-168.000.

Smith, David S.: *See*—
Sidki, Ahmad M.; and Smith, David S., 4,637,985, Cl. 436-518.000.

Smith, David V. Tag implantation system and method. 4,672,967 6-16-87, Cl. 128-330.000.

Smith, David V. Wire tag etching system. 4,713,315, 12-15-87, Cl. 430-326.000.

Smith, David W.; and Cammack, Michael A., to Teledyne Industries, Inc. Showerhead. 4,674,687, 6-23-87, Cl. 239-447.000.

Smith, David W.: *See*—
Townsend, Ray T.; Smith, David W.; and Dykes, Robert M. 4,660,255, Cl. 17-49.000.
Townsend, Ray T.; Smith, David W.; and Dykes, Robert M. 4,709,447, Cl. 17-1.00F.

Smith, Dean L., Jr.: *See*—
Hsu, Edward C.; Merchant, Philip, Jr.; Smith, Dean L., Jr.; Kelly, Kevin P.; and Lacy, Sylvia M., 4,692,237, Cl. 208-177.000.

Smith, Denis N., to National Research Development Corporation. Method and apparatus for deriving currents and potentials representative of the impedances of zones of a body. 4,649,932, 3-17-87, Cl. 128-734.000.

Smith, Dennis E.: *See*—
Hunt, Alexander, III; and Smith, Dennis E., 4,655,525, Cl. 339-63.00M.

Smith, Dennis M., to Hunter Engineering Co., Inc. Casting tip assembly with replaceable upstream and downstream units. 4,641,767, 2-10-87, Cl. 222-591.000.

Smith, Dennis M.: *See*—
Flowers, John E.; Romanowski, Christopher A.; and Smith, Dennis M., 4,681,152, Cl. 164-477.000.

Smith, Dennis W.: *See*—
Borrelli, Nicholas F.; Hares, George B.; Smith, Dennis W.; and Wedding, Brent M., 4,710,430, Cl. 428-432.000.

Smith, Derek; and Seed, David. Door sealing mechanism. 4,703,596 11-3-87, Cl. 49-307.000.

Smith, Don A., Jr. Portable cleaning container. 4,713,859, 12-22-87, Cl 15-264.000.

Smith, Don E., to Texas Metal Casting Co., Inc. Attachment apparatus for columnar member. 4,655,632, 4-7-87, Cl. 403-362.000.

Smith, Don W.: *See*—
Hipple, James H.; Smith, Don W.; and Reed, Neil E., 4,633,711, Cl 73-293.000.

Smith, Donald; and Goehst, George, to Barber-Greene Co. Extendable screed and method for paving non-coplanar road surface. 4,688,96 8-25-87, Cl. 404-75.000.

Smith, Donald C.; Snow, Richard F.; and Pauli, George B., to Cross Hinds Company. Post top luminaire. 4,703,403, 10-27-87, Cl 362-268.000.

Smith, Donald E.; and Roberts, Richard D., to Harris Corporation. synchronizer for decoding data. 4,635,280, 1-6-87, Cl. 375-120.000.

Smith, Donald E. Apparatus for discharging sewage from travel trailers and the like. 4,650,224, 3-17-87, Cl. 285-165.000.

Smith, Donald E.; and Haunhorst, Greg A., to Aeroquip Corporation. Helicopter cargo hook. 4,678,219, 7-7-87, Cl. 294-82.330.

Smith, Donald E.: *See*—
Bennett, Ronald Q.; Smith, Donald E.; and Muse, Joel. 4,670,609, Cl. 568-768.000.

Smith, Donald F., to General Dynamics Corporation. Method securing a workpiece to a fixture. 4,688,321, 8-25-87, Cl. 29-559.0

Smith, Donald F.: *See*—
Koleske, Joseph V.; Smith, Donald F.; and Weber, Robert 4,680,361, Cl. 526-318.000.

Smith, Donald H.: *See*—
Frank, Richard J.; and Smith, Donald H., 4,635,695, 152-410.000.

Smith, Donald L.: *See*—
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Smith, Donald O.; Burgess, John R.; and Walker, David M., to Control Data Corporation. Low defect etching of patterns using plasma-cil mask. 4,661,203, 4-28-87, Cl. 156-643.000.

Smith, Donald O.: *See*—
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Smith, Donald P.; and Archer, Virgil L., to Smith, Donald P. plenum configuration. 4,679,542, 7-14-87, Cl. 126-21.00A.

Smith, Donald R., to King, Michael H., a part interest. Method and apparatus for isolation of hair from treatment materials. 4,638,821, 1-27-87, Cl. 132-7.000.

Smith, Donald T.: *See*—
Anderson, Jerry M.; Cannon, Thomas C., Jr.; Darden, Bruce V.; and Smith, Donald T., 4,684,195, Cl. 439-404.000.

Smith, Dorothy. Safety harness for children. 4,667,624, 5-26-87, Cl. 119-96.000.

Smith, Douglas D.: *See*—
Jenkins, Kenneth L.; Suhaka, Stanley C.; Dolin, Rick L.; LaRoche, Allan R.; Hodgson, Robert E.; Such, Neil R.; Smith, Douglas D.; Newton, Frank R.; and Cunningham, Richard N., 4,634,622, Cl. 428-143.000.

Smith, Durward A.: *See*—
Harris, Hubert; and Smith, Durward A., 4,671,965, Cl. 426-482.000.

Smith, Dwight L.: *See*—
Elkins, Marvin; and Smith, Dwight L., 4,649,861, Cl. 119-1.000.

Smith, Earl D. Trailer apparatus for transporting vehicles and other cargo. 4,693,650, 9-15-87, Cl. 410-18.000.

Smith, Edgar D., to Jerone Technologies, Inc. Method of manufacture of a can end with a push in vent tab and main tab. 4,701,090, 10-20-87, Cl. 413-13.000.

Smith, Edgar M., to RCA Corporation. Power supply associated with AC line relay switch. 4,713,598, 12-15-87, Cl. 323-245.000.

Smith, Edward, to International Computers Limited. Method and apparatus for verifying the design of digital electronic components. 4,644,487, 2-17-87, Cl. 364-578.000.

Smith, Edward H.: *See*—
Draper, Robert; and Smith, Edward H., 4,640,233, Cl. 122-488.000.
Tolino, Ralph W.; Smith, Edward H.; and Havoic-Conroy, Stephanie M., 4,654,702, Cl. 358-100.000.

Smith, Edward W.; and Garfinkle, Gene, to Satellite Technology Services, Inc. Antenna dish reflector with integral declination adjustment. 4,716,416, 12-29-87, Cl. 343-915.000.

Smith, Edward W.: *See*—
Rothbarth, James N.; and Smith, Edward W., 4,692,771, Cl. 343-882.000.

Smith, Edwin J.: *See*—
Cantrell, Larry K.; and Smith, Edwin J., 4,715,596, Cl. 271-116.000.

Smith, Edwin K., to Corrugated Paper Machinery Corp. Sheet transfer device. 4,674,739, 6-23-87, Cl. 271-268.000.

Smith, Eldon L. Remote control vehicle unlocking device. 4,663,626, 5-5-87, Cl. 340-825.690.

Smith, Elmer L.; McLarty, Gerold E.; and Smith, Geraldine L., to E & G Enterprises. Light-emitting diode assemblies and systems therefore. 4,675,575, 6-23-87, Cl. 315-185.00S.

Smith, Elvin T., Jr.; and Ramsey, Robert D., to LOF Plastics Inc. Holder for embossing items of irregular cross-section. 4,655,267, 4-7-87, Cl. 144-2.00R.

Smith, Ernest L.: *See*—
Mobberley, Laura P.; Smith, Ernest L.; and MacEwen, George E., 4,643,329, Cl. 220-257.000.

Smith, Eugene A., to Northrop Corporation. Optical turret. 4,677,288, 6-30-87, Cl. 250-216.000.

Smith, Eugene A., to Northrop Corporation. Pre-combustion integrated Ram airbreathing laser. 4,713,823, 12-15-87, Cl. 372-90.000.

Smith, Eugene F.; and Nguyen, Tuan A., to Ball Corporation. Increased strength for metal beverage closure through reforming. 4,641,761, 2-10-87, Cl. 220-66.000.

Smith, Floyd E.: *See*—
Mintz, Donald J.; Brons, Cornelius H.; and Smith, Floyd E., 4,634,510, Cl. 204-188.000.

Smith, Flynn K.: *See*—
Smith, Gavin C.; Smith, Gregory C.; and Smith, Flynn K., 4,666,211, Cl. 298-8.00R.

Smith, Forrest D. Toothpick dispenser. 4,637,512, 1-20-87, Cl. 206-103.000.

Smith, Forrest P., Jr.; and Munnell, Jeffrey C. Safety firearm mechanism. 4,680,884, 7-21-87, Cl. 42-66.000.

Smith, Francis E.; Hyatt, Robert L.; and Kline, Leonard J., Jr., to Ametek, Inc. Quiet by-pass vacuum motor. 4,698,534, 10-6-87, Cl. 310-89.000.

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Smith, Fred P.: *See*—
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Smith, Fred T.; and Smith, Fred P., to Heil Co., The. Universal container grabber apparatus for a refuse collection vehicle. 4,708,570, 11-24-87, Cl. 414-408.000.

Smith, Gareth J. Anchoring bolt. 4,657,461, 4-14-87, Cl. 411-340.000.

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Smith, Gary I.: *See*—
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Smith, Gaylord D.; Brown, Douglas S.; Bernstein, Philip; and Weller, John E., to Inco Alloys International, Inc. Platinum and palladium complexes. 4,673,754, 6-16-87, Cl. 556-137.000.

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Smith, Gene M. Railroad grade crossing structure. 4,691,863, 9-8-87, Cl. 238-8.000.

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Smith, Grant M.; and Sprenkle, George J., to Burroughs Corporation. Contact probe assembly. 4,647,852, 3-3-87, Cl. 324-158.00P.

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Smith, Hoyt L.; and Farrah, D. Frank, to Cutters Exchange, Inc. Cloth support and feed apparatus for cloth spreading machine. 4,676,494, 6-30-87, Cl. 270-30.000.

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Smith, Irving. Emergency wheel mountable on vehicle wheel and method of use. 4,666,216, 5-19-87, Cl. 301-39.00C.

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Smith, Jack E., to General Motors Corporation. Decoratively stitched trim part and method. 4,711,190, 12-8-87, Cl. 112-266.200.

Smith, James A.; and Kellett, George W., to Creative Products Resource Associates, Ltd. Glass cleaning composition containing a cyclic anhydride and a poly(acrylamidomethylpropane) sulfonic acid to reduce friction. 4,673,523, 6-16-87, Cl. 252-91.000.

Smith, James A.; and Murphy, Betty J., to Creative Products Resource Associates, Ltd. Towel for skin moisturizing and drying. 4,690,821, 9-1-87, Cl. 424-401.000.

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Smith, James B., Jr. Synthetic logs for fireplaces or use as general fuel and processes for making them. 4,654,049, 3-31-87, Cl. 44-10.00B.

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Hibbert, David A.; Newmark, Larry J.; Smith, James I.; Brasel, Timothy C.; and Wung, Peter C. F., 4,675,782, Cl. 361-356.000.

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Smith, James L.; and Zwick, Stanley A., to United States of America, Energy. Molten carbonate fuel cell reduction of nickel deposits. 4,643,955, 2-17-87, Cl. 429-34.000.

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Smith, James P., to Procter & Gamble Company, The. Filled mat product having a hydrophilically coated filling. 4,661,360, 4-28-87, Cl. 426-94.000.

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Smith, Leon E. Twin matchbook. 4,690,273, 9-1-87, Cl. 206-105.000.
Smith, Leonard I.: *See*—
Hay, John; Smith, Leonard I.; and Foster, George E., 4,634,453, Cl. 51-293.000.
Smith, Leonard S.: *See*—
Haagensen, Duane B.; Moses, Darcy C.; and Smith, Leonard S., 4,714,812, Cl. 219-10.55A.
Smith, Leslie W.: *See*—
Schebler, Wilbur A.; Smith, Leslie W.; and Wettering, Carl A., 4,657,608, Cl. 156-64.000.
Smith, Leward N. Sharpener for industrial knife blades. 4,685,250, 8-11-87, Cl. 51-56.00R.
Smith, Lloyd B., to United Coal Company. Method for extracting water from solid fines or the like. 4,639,320, 1-27-87, Cl. 210-739.000.
Smith, Lloyd B., to United Coal Company. Apparatus for extracting water from solid fines or the like. 4,640,770, 2-3-87, Cl. 210-144.000.
Smith, Lloyd S.: *See*—
Parracho, Rui M.; Smith, Lloyd S.; Bunch, Richard P.; and Gross, Alexander L., 4,638,576, Cl. 36-68.000.
Smith, Lonnie J.; Blount, Curtis G.; and Petermann, Steven G., to Atlantic Richfield Company. Apparatus for operating wireline tools in wellbores. 4,685,516, 8-11-87, Cl. 166-65.100.
Smith, Lonnie J.; Petermann, Steven G.; and Wood, Dennis R., to Atlantic Richfield Company. Wireline tool connector. 4,706,744, 11-17-87, Cl. 166-65.100.
Smith, Loren G.: *See*—
Kohls, Mitchell L.; Smith, Loren G.; and Zahringer, H. David, 4,706,821, Cl. 211-593.000.
Smith, Louise, and Kautman, Frank W. Nail polish remover wand. 4,699,161, 10-13-87, Cl. 132-73.500.
Smith & Loveless: *See*—
Weis, Frank G., 4,661,047, Cl. 417-360.000.
Smith, Lowell S.: *See*—
Hodsoll, Raymond J., Jr.; Karr, Steven G.; Leue, William M.; Smith, Lowell S.; Redington, Rowland W.; Bottomley, Paul A.; and Edelstein, William A., 4,667,159, Cl. 324-309.000.
Vatis, Dimitrios; Smith, Lowell S.; and Edelstein, William A., 4,694,254, Cl. 324-309.000.
Smith, Lynn R.; and Spector, George. Coon hunters night hunt game. 4,657,259, 4-14-87, Cl. 273-244.000.
Smith & Mahoney, P.C.: *See*—
Galgana, Russell J.; Sutin, Gordon L.; McNerney, Michael; and Mahoney, Patrick F., 4,669,397, Cl. 110-259.000.
Galgana, Russell J.; Mahoney, Patrick F.; and Sutin, Gordon L., 4,715,763, Cl. 414-216.000.
Smith, Malcolm S.; and Daigle, Colastie J., to Du Pont de Nemours, E. I., and Company. Long life semi-artificial bait. 4,666,717, 5-19-87, Cl. 426-1.000.
Smith, Malcolm S.: *See*—
Lowe, David J.; Powell, Richard J.; and Smith, Malcolm S., 4,663,383, Cl. 524-493.000.
Smith, Mark A. Toilette seat lock. 4,658,447, 4-21-87, Cl. 4-236.000.
Smith, Mark G.; French, Karen J.; Zeller, David A., Jr.; Hargrave, Franklin; and Middleton, Francisco A., to ITT Corporation. Information collecting and forwarding apparatus. 4,654,869, 3-31-87, Cl. 379-107.000.
Smith, Mark G.: *See*—
Evans, David S.; Smith, Mark G.; Middleton, Francisco A.; and Hargrave, Franklin, 4,656,651, Cl. 379-1.000.
Hargrave, Franklin; Zeller, David A., Jr.; Smith, Mark G.; Hull, William L., III; and Middleton, Francisco A., 4,646,342, Cl. 379-24.000.

Smith, Mark L., to AMP Incorporated. Apparatus for selectively plating electrical terminals. 4,687,555, 8-18-87, Cl. 204-26.000.

Smith, Mark L.; and Wagner, Richard M., to AMP Incorporated. Anode assembly for selectively plating electrical terminals. 4,687,562, 8-18-87, Cl. 204-206.000.

Smith, Mark L.; and Wagner, Richard M., to AMP Incorporated. Selective plating apparatus. 4,690,747, 9-1-87, Cl. 204-206.000.

Smith, Marlin R.: *See*—
George, Flint R.; and Smith, Marlin R., 4,650,010, Cl. 175-4.520.
George, Flint R.; and Smith, Marlin R., 4,690,227, Cl. 175-4.560.

Smith, Marnell: *See*—
Riccitiello, Salvatore R.; Smith, Marnell; Goldstein, Howard E.; and Zimmerman, Norman B., 4,713,275, Cl. 428-76.000.

Smith, Marshall J.: *See*—
Lessard, Philip A.; and Smith, Marshall J., 4,708,165, Cl. 137-509.000.

Smith, Martin P.: *See*—
Welbourn, Christopher M.; Smith, Martin P.; and Stewart, Andrew D. G., 4,645,922, Cl. 250-226.000.
Welbourn, Christopher M.; and Smith, Martin P., 4,663,522, Cl. 250-223.00R.

Smith, Maynard B.: *See*—
Schmid, Frederick; Khattak, Chandra P.; and Smith, Maynard B., 4,646,710, Cl. 125-16.00R.

Smith, Melvin D.: *See*—
Cahill, Sally E.; and Smith, Melvin D., 4,650,768, Cl. 436-125.000.

Smith, Merrill M., and Ferguson, Donald C., to American Biltrite, Inc. Method and apparatus for making a printed and embossed floor covering using a cast wear layer. 4,678,528, 7-7-87, Cl. 156-220.000.

Smith Meter Inc.: *See*—
Kappelt, Eric G.; and Ciccozzi, Frederick A., 4,655,089, Cl. 73-861.380.

Smith, Michael B., to Amoco Corporation. Method and apparatus for completing a plurality of zones in a wellbore. 4,678,037, 7-7-87 Cl. 166-299.000.

Smith, Michael D.; and Dobat, Daniel F., to Cross Company, The. Tool coupling arrangement for a tooling assembly. 4,692,074, 9-8-87, Cl. 409-233.000.

Smith, Michael D., to Thomson Components-Mostek Corporation. Semiconductor chip power supply monitor circuit arrangement. 4,714,843, 12-22-87, Cl. 307-491.000.

Smith, Michael E.: *See*—
Rogers, Albert J.; Smith, Michael E.; and Trounson, James E., 4,657,455, Cl. 409-235.000.
Smith, Richard W., Jr.; and Smith, Michael E., 4,686,948, Cl. 123-193.00H.

Smith, Michael K. Foldable shade structure. 4,700,731, 10-20-87, Cl. 135-117.000.

Smith, Michael L.; and Hensley, Donald E., to Halliburton Company. Wet connector for use with drill pipe conveyed logging apparatus. 4,700,778, 10-20-87, Cl. 166-250.000.

Smith, Michael L.: *See*—
Luke, Robert R.; Barker, James M.; Smith, Michael L.; Grigar, Larry L.; and Miller, Carl B., 4,678,044, Cl. 175-4.520.

Smith, Michael P.: *See*—
Blackburn, Martin J.; and Smith, Michael P., 4,716,020, Cl. 420-418.000.

Smith, Michael S. Stencil manufacturing and printing process. 4,649,517, 3-17-87, Cl. 101-129.000.

Smith, Michael W.: *See*—
Childress, Jeffrey S.; Sihlanick, Mark M.; Smith, Michael W.; and Morgan, Peyton L., III, 4,658,435, Cl. 455-17.000.

Smith, Michel R.; Davidson, James; and Pfister, Henry. Emergency vehicle warning and traffic control system. 4,704,610, 11-3-87, Cl. 340-906.000.

Smith-Migatz, Dena: *See*—
Rosenberg, Ruth, 4,648,851, Cl. 446-372.000.

Smith, Millard F., to Slickbar Products Corp. Washing methods and apparatus for heat exchanger tube cleaning plugs. 4,696,318, 9-29-87, Cl. 134-73.000.

Smith, Morley L., to Ontario Drive and Gear Limited. Trailer for all-terrain vehicle. 4,683,970, 8-4-87, Cl. 180-15.000.

Smith, Nathan R., to inTEST Corporation. Electronic test head positioner for test systems. 4,705,447, 11-10-87, Cl. 414-590.000.

Smith, Nathan R.: *See*—
Wedel, John A.; Carroll, Michael J.; Kassner, Michael P.; and Smith, Nathan R., 4,647,269, Cl. 414-421.000.

Smith & Nephew Associated Companies Limited: *See*—
Williams, Pamela J.; and Howes, John G. B., 4,666,439, Cl. 604-368.000.

Smith and Nephew Associated Companies p.l.c.: *See*—
Buchan, Ian A.; and Heath, Richard D., 4,688,562, Cl. 128-132.00R.
Potter, William D.; Kiamil, Sinan B.; and White, Nicholas D., 4,655,202, Cl. 128-90.000.
Potter, William D.; Kiamil, Sinan B.; and White, Nicholas D., 4,672,956, Cl. 128-90.000.
Rawlings, David A.; and Potter, William D., 4,657,006, Cl. 128-156.000.
Webster, David F., 4,664,662, Cl. 604-369.000.

Smith, Noel. Inflation pressure indicator for vehicle tires. 4,686,855, 8-18-87, Cl. 73-146.800.

Smith, Norvel L.: *See*—
Inoue, Seizaburo; and Smith, Norvel L., 4,652,410, Cl. 264-39.000.

Smith, Otis O. Adjustable dual-wheel caddy. 4,692,082, 9-8-87, Cl. 414-429.000.

Smith, Paul D.; and Hsieh, Eric T., to Phillips Petroleum Company. Ethylene polymerization with polychromium catalysts and resulting polymer. 4,665,263, 5-12-87, Cl. 585-520.000.

Smith, Paul D., to Phillips Petroleum Company. Polychromium compounds and processes to make same. 4,668,808, 5-26-87, Cl. 556-12.000.

Smith, Paul D.: *See*—
McDaniel, Max P.; and Smith, Paul D., 4,681,866, Cl. 502-154.000.

Smith, Paul F.; Schorman, Eric R.; and Burke, Timothy M., to Motorola, Inc. Method of communications between register-modelled radio devices. 4,684,941, 8-4-87, Cl. 340-825.520.

Smith, Paul F.: *See*—
Burke, Timothy M.; Smith, Paul F.; and Schorman, Eric R., 4,637,022, Cl. 371-37.000.

Smith, Paul K.: *See*—
Scheberle, James W.; and Smith, Paul K., 4,657,218, Cl. 248-411.000.

Smith, Paul R.: *See*—
Samuels, Gerard; and Smith, Paul R., 4,709,632, Cl. 101-163.000.

Smith, Paul S.; and Carothers, John S., to Geodynamics Corporation. Automatic disconnect device with protected ringer. 4,675,901, 6-23-87, Cl. 379-387.000.

Smith, Peter B., to Black & Decker Inc. Low-cost, keyless chuck and method of manufacture. 4,648,608, 3-10-87, Cl. 279-1.00K.

Smith, Peter E.; and Laxton, Raymond, to AGB Research PLC. Means for monitoring people who are watching a television set. 4,644,393, 2-17-87, Cl. 358-84.000.

Smith, Peter J., to Fomico International, Inc. Adjustable mold for concrete median barrier. 4,668,462, 5-26-87, Cl. 264-320.000.

Smith, Peter L. Accessory for a drum pedal assembly. 4,691,612, 9-8-87, Cl. 84-422.00R.

Smith, Peter R., to Industrial Trade Exchange, Inc. Fuel control system. 4,641,625, 2-10-87, Cl. 123-575.000.

Smith, Philip C.: *See*—
Smith, Teresa B.; and Smith, Philip C., 4,672,240, Cl. 307-449.000.

Smith, Philip E.: *See*—
Raudman, Charles J.; and Smith, Philip E., 4,696,330, Cl. 141-86.000.

Smith, Philip L.; and Caprio, Joseph R., to Kupler Corporation. Electrical clamp connector. 4,684,196, 8-4-87, Cl. 439-411.000.

Smith, Quintin R.; and Smith, Kellen R. Method of making complexly curved mold. 4,690,319, 9-1-87, Cl. 228-182.000.

Smith, R. Leon. Weighted heeling rope. 4,648,352, 3-10-87, Cl. 119-153.000.

Smith, R. Paul; Betsinger, Thomas R.; and Smith, Kathy T., to T.W. & Judson Shear Company, Inc. Shear system. 4,660,469, 4-28-87, Cl. 100-95.000.

Smith, Ralph. Combination crib/cabinet unit. 4,633,537, 1-6-87, Cl. 5-2.00R.

Smith, Randall C. Dual mode music instrument preamplifier. 4,701,957, 10-20-87, Cl. 381-61.000.

Smith, Randall C. Power amplifier with modified dynamic response. 4,713,624, 12-15-87, Cl. 330-118.000.

Smith, Randall W.: *See*—
Thorne, Gale H.; Owen, Charles V.; Smith, Randall W.; Goldberg, Ruth D.; Miles, Scott D.; and Claus, Michael J., 4,678,752, Cl. 435-291.000.

Smith, Randley A. Prefabricated panelized nuclear-hardened shelter. 4,686,804, 8-18-87, Cl. 52-169.600.

Smith, Randolph. Color-coded card game. 4,693,480, 9-15-87, Cl. 273-296.000.

Smith, Randy M.: *See*—
Farag, Samir F.; Kleinecke, John D.; and Smith, Randy M., 4,652,966, Cl. 361-189.000.

Smith, Raymond, to Teledyne Industries, Inc. Lubrication seal. 4,673,332, 6-16-87, Cl. 415-113.000.

Smith, Raymond. Wire plant stands and tables. 4,674,415, 6-23-87, Cl. 108-150.000.

Smith, Raymond H.; and Bryant, Donald E. Magnetically-activated motorized pump. 4,671,745, 6-9-87, Cl. 417-419.000.

Smith, Raymond J.: *See*—
Nelson, John E.; and Smith, Raymond J., 4,700,924, Cl. 251-58.000.

Smith, Reed R.: *See*—
Smith, Alvin D.; Smith, Darin E.; and Smith, Reed R., 4,700,897, Cl. 239-741.000.

Smith, Richard A. G.: *See*—
Ferres, Harry; Smith, Richard A. G.; and Garman, Andrew J., 4,673,573, Cl. 424-94.630.

Smith, Richard D., to Andrew Corporation. Spring hanger system for UHF circular waveguide having glide ring and clamping ring connected by constant force springs. 4,654,612, 3-31-87, Cl. 333-248.000.

Smith, Richard D., to Internationale Octrooi Maatschappij "Octropa" BV. Hose coupling. 4,664,424, 5-12-87, Cl. 285-256.000.

Smith, Richard D., to Internationale Octrooi Maatschappij "Octropa" BV. Hose coupling. 4,684,157, 8-4-87, Cl. 285-256.000.

Smith, Richard D.; Oliver, Michael S.; Crouse, Richard D.; and Chu, Weng-Kwen R., to Smith International, Inc. Crossflow rotary cone rock bit with extended nozzles. 4,687,067, 8-18-87, Cl. 175-340.000.

Smith, Richard E. Thermally compensating positioning devices and assemblies. 4,688,909, 8-25-87, Cl. 350-631.000.

Smith, Richard G. Overload detection apparatus. 4,698,623, 10-6-87, Cl. 340-665.000.

Smith, Richard K.: *See*—
Bremer, Gordon; Armstrong, Thomas; Holmquist, Kurt; and Smith, Richard K., 4,645,871, Cl. 380-2.000.

Smith, Richard R.; and Kern, Charles L., Jr., to Goodyear Tire & Rubber Company, The. Multi-layer polyisophthalate and polyterephthalate articles and process therefor. 4,643,925, 2-17-87, Cl. 428-35.000.

Smith, Richard W., to Wangner Systems Corp. Paper making fabric having a reduced permeability profile. 4,649,964, 3-17-87, Cl. 139-383.00A.

Smith, Richard W., Jr.; and Smith, Michael E., to TFS, Inc. Head for high performance internal combustion engine. 4,686,948, 8-18-87, Cl. 123-193.00H.

Smith, Robert, to Scandpower, Inc. Hydrogen measuring device. 4,652,420, 3-24-87, Cl. 376-256.000.

Smith, Robert; and Newton, Anthony, to Motorola, Inc. Frequency controlled oscillator utilizing an U/D counter in the feedback. 4,654,604, 3-31-87, Cl. 331-1.00A.

Smith, Robert A.; Parker, Dane K.; Colvin, Howard A.; Weinstein, Arthur H.; and Patterson, Dennis B., to Goodyear Tire & Rubber Company, The. Preparation of polymers containing pendant isocyanate groups and derivatives thereof by emulsion copolymerization. 4,694,057, 9-15-87, Cl. 526-206.000.

Smith, Robert B.; and Thornton, Gary E., to Ion Tech, Inc. Module power supply. 4,652,769, 3-24-87, Cl. 307-31.000.

Smith, Robert B. Night driving dazzle protection system. 4,678,296, 7-7-87, Cl. 351-45.000.

Smith, Robert E., to International Texas Industries, Inc. Omnidirectional vehicle base. 4,715,460, 12-29-87, Cl. 180-7.100.

Smith, Robert E., III, to National Coupling Company, Inc. Undersea hydraulic coupling and metal seal. 4,694,859, 9-22-87, Cl. 137-614.040.

Smith, Robert F., to Seagate Technology. Method and apparatus for evaluating a recording system utilizing a programmable window generator having first and second multivibrators providing delay. 4,682,252, 7-21-87, Cl. 360-67.000.

Smith, Robert H., to Atlantic Richfield Company. Spouted bed heating of solids for coal gasification. 4,704,138, 11-3-87, Cl. 48-210.000.

Smith, Robert J., to Borg-Warner Chemicals, Inc. Vehicle bumper assembly. 4,652,032, 3-24-87, Cl. 293-120.000.

Smith, Robert J. Method and apparatus for starting a diesel engine at a subfreezing temperature. 4,681,071, 7-21-87, Cl. 123-180.00R.

Smith, Robert J.: *See*—
Bussiere, Ronald L.; and Smith, Robert J., 4,716,296, Cl. 250-504.00H.

Smith, Robert K., to NCR Corporation. Portable testing device for monitoring communication line activity. 4,665,521, 5-12-87, Cl. 371-22.000.

Smith, Robert K.: *See*—
Becke, Hans W.; and Smith, Robert K., 4,691,220, Cl. 357-39.000.
Butler, Scott J.; Smith, Robert K.; and Abdollahian, Mehdy, 4,712,046, Cl. 315-248.000.

Smith, Robert L. Starter shingle. 4,637,191, 1-20-87, Cl. 52-522.000.

Smith, Robert L.: *See*—
Hoffman, William F.; Smith, Robert L.; and Scolnick, Edward, 4,668,699, Cl. 514-460.000.

Smith, Robert M.: *See*—
Sovis, John F.; Smith, Robert M.; and Bramhall, George H., 4,633,543, Cl. 15-344.000.

Smith, Robert R.; and Briggs, Thomas B. Subcutaneous ventricular injection apparatus and method. 4,710,177, 12-1-87, Cl. 604-185.000.

Smith, Robert S. Multipurpose rowing apparatus. 4,690,398, 9-1-87, Cl. 272-72.000.

Smith, Robert T., to Calflex Corporation. Valve with sealed actuator assembly. 4,650,160, 3-17-87, Cl. 251-335.300.

Smith, Robert T.: *See*—
Ali, Mohammad A.; Cotroneo, George V.; Rodrigue, Peter R.; and Smith, Robert T., 4,674,279, Cl. 60-398.000.

Smith, Robert W. Gas fired heat exchanger for hot water with bimetallic scouring baffle. 4,671,212, 6-9-87, Cl. 122-18.000.

Smith, Robert W., to Badger Northland, Inc. Conveyor hook link with paddle assembly and coupling method. 4,685,555, 8-11-87, Cl. 198-731.000.

Smith, Robert W., to Colony Services Inc. Harvesting of aquatic vegetation by helicopters. 4,713,929, 12-22-87, Cl. 56-8.000.

Smith, Roderick A.: *See*—
Chaplin, George B. B.; Smith, Roderick A.; and Bramer, Terrence P. C., 4,654,871, Cl. 381-72.000.

Smith, Roderick L., to Energy Adaptive Grinding, Inc. Force-controlled steadyrest system. 4,663,892, 5-12-87, Cl. 51-289.00R.

Smith, Roderick L., to Energy Adaptive Grinding, Inc. Centerless and center-type grinding system. 4,712,332, 12-15-87, Cl. 51-103.0WH.

Smith, Rodney M.; and Masek, Jiri, to Valmet-Dominion Inc. Calender self-locking loading mechanism. 4,641,569, 2-10-87, Cl. 92-43.000.

Smith, Roger, Jr.: *See*—
Berry, Joe R.; Langowski, Faustyn C.; Renfro, James G.; and Smith, Roger, Jr., 4,715,761, Cl. 414-22.000.

Smith, Roger E.: *See*—
Witty, Thomas R.; Curry, Robert E.; and Smith, Roger E., 4,675,299, Cl. 436-165.000.

Smith, Roger L.; and Bolenbaugh, Daniel L., to Allied Corporation. Disc brake parking cartridge retention device. 4,635,761, 1-13-87, Cl. 188-72.600.

Smith, Roger R.; and Rao, K. Kamalakar, to Hardinge Brothers, Inc. Five tooling turret. 4,656,708, 4-14-87, Cl. 29-40.000.

Smith, Roger R.: *See*—
Adlam, Arthur H.; Wittbrodt, Donald R.; Scully, Andrew J.; Smith, Roger R.; Tuteja, Balbir S.; Currier, Theodore R.; George, Rita M.; Yopp, Roger W.; and Hussaini, Syed M., 4,671,162, Cl. 89-1.130.

Smith, Ronald A. Sink strainer with bridged stem. 4,706,306, 11-17-87, Cl. 4-286.000.

Smith, Ronald C. Lottery ticket scraper. 4,646,382, 3-3-87, Cl. 15-236.00R.

Smith, Ronald D. Emergency air supply apparatus. 4,702,243, 10-27-87, Cl. 128-205.240.

Smith, Ronald E., to Bourns, Inc. Electronic device with improved element retention. 4,647,898, 3-3-87, Cl. 338-192.000.

Smith, Ronald E., to Marathon Oil Company. Oil recovery process using a delayed polymer gel. 4,706,754, 11-17-87, Cl. 166-295.000.

Smith, Ronald L.: *See*—
Carpenter, James H.; Mullins, Ronald L.; and Smith, Ronald L., 4,680,899, Cl. 51-427.000.

Smith, Ronald M.: *See*—
Marks, Richard L.; Scheingold, William S.; and Smith, Ronald M., 4,657,325, Cl. 339-17.0CF.

Smith, Ronald W.: *See*—
Harr, George B.; and Smith, Ronald W., 4,686,994, Cl. 128-586.000.

Smith, Roy E., to Urban Transportation Development Corporation Ltd. Brake disc design for wheel mounted discs. 4,679,665, 7-14-87, Cl. 188-218.0XL.

Smith RPM Corporation: *See*—
Smith, Gary R., 4,708,058, Cl. 101-147.000.

Smith, Russel I. Co-rotor engine and drive apparatus. 4,666,379, 5-19-87, Cl. 418-35.000.

Smith, Samuel C. Eccentrically weighted rolling device returns uphill. 4,708,686, 11-24-87, Cl. 446-166.000.

Smith, Sidney B., to Lucas Industries Public Limited Company. Arrangement for switching rectified alternating current. 4,706,179, 11-10-87, Cl. 363-126.000.

Smith, Sidney K., Jr., to Hughes Tool Company. Latching production seal assembly. 4,655,290, 4-7-87, Cl. 166-382.000.

Smith, Sidney K., Jr.; and Baugh, John L., to Hughes Tool Company. Locking production seal assembly. 4,657,077, 4-14-87, Cl. 166-115.000.

Smith, Sidney K., Jr., to Hughes Tool Company. Latch and retrieving assembly. 4,715,445, 12-29-87, Cl. 166-377.000.

Smith, Sidney R.; and Siegel, Marvin I., to Schering Corporation. Method for modulating the immune response. 4,666,922, 5-19-87, Cl. 514-335.000.

Smith, Sidney R.; and Siegel, Marvin I., to Schering Corporation. Method for suppressing the immune response. 4,687,774, 8-18-87, Cl. 514-293.000.

Smith, Stanley E.: *See*—
Nguyen, Chinh T.; and Smith, Stanley E., 4,652,415, Cl. 264-236.000.

Smith, Stanley R. Indicator for loose lug nuts. 4,709,654, 12-1-87, Cl. 116-283.000.

Smith Steele, Helen H.: *See*—
Steele, Leonard B., 4,667,141, Cl. 320-2.000.

Smith, Stephen F., to Alpha-Omega Engineering, Inc. Special vestigial sideband signal for use in communication systems. 4,660,222, 4-21-87, Cl. 455-109.000.

Smith, Stephen F., to Alpha-Omega Engineering, Inc. Special vestigial sideband signal for use in communication systems. 4,686,705, 8-11-87, Cl. 455-109.000.

Smith, Stephen L.: *See*—
Raghunathan, Kuppuswamy; Jorvig, Jeffrey R.; and Smith, Stephen L., 4,689,504, Cl. 307-449.000.

Smith, Stephen W.: *See*—
Lessig, William R., III; Wheeler, Dale K.; Bailey, R. Roby, Jr.; and Smith, Stephen W., 4,649,245, Cl. 200-157.000.
von Ramm, Olaf T.; and Smith, Stephen W., 4,694,434, Cl. 367-7.000.

Smith, Steven A. One piece thumb support and protector. 4,658,441, 4-21-87, Cl. 2-16.000.

Smith, Steven A. Collar for retaining camera bracket mount in place. 4,684,230, 8-4-87, Cl. 354-293.000.

Smith, Steven G.: *See*—
Booth, David E.; Smith, Steven G.; and Adams, John L., 4,678,448, Cl. 445-60.000.

Smith, Stuart B., to Thermocell Development, Ltd. Process for preparing high heat-distortion-temperature polyisocyanurate polymers. 4,670,346, 6-2-87, Cl. 428-422.800.

Smith, Stuart B.: *See*—
Storey, William R.; Wheat, William R.; Smith, Stuart B.; and Ajinkya, Milind B., 4,698,211, Cl. 422-135.000.

Smith, Suzann. Child's high chair restraining device. 4,697,849, 10-6-87, Cl. 297-485.000.

Smith, Tammy L., to University of California. Method for detecting molecules containing amine or thiol groups. 4,680,272, 7-14-87, Cl. 436-86.000.

Smith, Terence J.: *See*—
Irving, Edward; and Smith, Terence J., 4,644,644, Cl. 430-18.000.

Smith, Teresa B.; and Smith, Philip C., to Westinghouse Electric Corp. Programmable redundancy circuit. 4,672,240, 6-9-87, Cl. 307-449.000.

Smith, Terrance, to Ampex Corporation. Horizontal line data position and burst phase encoding apparatus and method. 4,695,873, 9-22-87, Cl. 358-13.000.

Smith, Terrence R.: *See*—
Strolle, Christopher H.; Smith, Terrence R.; and Hadwen, Brian M., 4,683,490, Cl. 358-30.000.

Smith, Terry B.: *See*—
Frost, Terry; and Smith, Terry B., 4,655,067, Cl. 72-131.000.

Smith, Terry W. Recreational platform. 4,687,198, 8-18-87, Cl. 272-114.000.

Smith, Thomas, to Zidex Systems. Digital fluid analyzer using capacitive sensing. 4,675,596, 6-23-87, Cl. 324-61.0QS.

Smith, Thomas A.: *See*—
Roth, Joseph A.; and Smith, Thomas A., 4,708,776, Cl. 204-1.00T.

Smith, Thomas C. Retractable line storage device. 4,697,537, 10-6-87, Cl. 114-230.000.

Smith, Thomas E.: *See*—
Pickering, Trevor P.; Paton, George A.; Gusack, James A.; Smith, Thomas E.; Sanders, John H.; Nichols, Sterling M.; Pursoo, Johnson L.; Lindsay, John W.; and Streetman, William E., 4,704,311, Cl. 427-393.100.
Stein, Samuel R.; Lewis, Lindon L.; and Smith, Thomas E., 4,706,043, Cl. 331-94.100.

Smith, Thomas L.: *See*—
Koch, G. Teryl; Smith, Thomas L.; Jacklin, Keith A.; and Hammond, James A., 4,698,252, Cl. 428-159.000.

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Fernandes, Roosevelt A.; and Smith-Vaniz, William R., 4,689,752, Cl. 364-492.000.

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Smith, William B., to Bio-Environmental Systems, Inc. Apparatus and method for handling of infectious waste material. 4,670,227, 6-2-87, Cl. 422-297.000.

Smith, William C., to Beloit Corporation. Disc screen classifier. 4,658,965, 4-21-87, Cl. 209-672.000.

Smith, William D.: *See*—
Gaulding, William R.; Smith, William D.; and Marsh, Nicholas C., 4,702,653, Cl. 410-144.000.

Smith, William E.: *See*—
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Smith, William H.; and Vinson, Edward F., to Halliburton Company. Thermally responsive aqueous silicate mixtures and use thereof. 4,640,361, 2-3-87, Cl. 166-288.000.

Smith, William H., to Manville Service Corporation. Method for applying a layer of fiber on a surface and a refractory material produced thereby. 4,673,594, 6-16-87, Cl. 427-196.000.

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Smith, William I., Jr. Closure system for storage, transport and disposal of hypodermic needles. 4,643,722, 2-17-87, Cl. 604-192.000.

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Smith, William N., III. Communications apparatus for handicapped individuals. 4,642,610, 2-10-87, Cl. 340-365.00S.

Smith, William N., III, to Agile Systems, Inc. Frequency modulated modem transmitter. 4,670,888, 6-2-87, Cl. 375-62.000.

Smith, William V., to Lectrolarm Custom Systems, Inc. Control system for enabling a plurality of different functions. 4,675,672, 6-23-87, Cl. 340-825.770.

Smith, William V., to Lectrolarm Custom Systems, Inc. Hydraulically driven bicycle. 4,688,815, 8-25-87, Cl. 280-216.000.

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Smither, Miles A., to Fairfield Industries. Instantaneous floating point amplifier. 4,704,584, 11-3-87, Cl. 330-86.000.

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Smithies, Graham. Display device. 4,686,784, 8-18-87, Cl. 40-406.000.

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Ali, Fadia E.; and Huffman, William F., 4,684,622, Cl. 514-11.000.
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Auerbach, Jeffrey I.; and Rosenberg, Martin, 4,637,980, Cl. 435-68.000.
Bender, Paul E.; Griswold, Don E.; Hanna, Nabil; and Sarau, Henry M., 4,686,231, Cl. 514-333.000.
Bondinell, William E.; and Ormsbee, Herbert S., III, 4,659,706, Cl. 514-213.000.
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Bowie, Betty A.; Newman, David J.; and Shearer, Marcia C., 4,672,036, Cl. 435-254.000.
Callahan, James F.; Huffman, William F.; Moore, Michael L.; and Yim, Nelson C., 4,658,015, Cl. 530-329.000.
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Demarinis, Robert M.; and Pfeiffer, Francis R., 4,683,229, Cl. 514-213.000.
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Hill, David T.; and Johnson, Randall K., 4,698,422, Cl. 536-17.100.
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Kaiser, Carl; Kruse, Lawrence I.; and Ross, Stephen T., 4,634,771, Cl. 514-341.000.
Kaiser, Carl; and Kruse, Lawrence I., 4,707,485, Cl. 514-307.00.
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Kalbag, Suresh M.; and Voelker, Paul J., 4,656,248, Cl. 530-315.00.
Kirsh, Richard L.; and Ravin, Louis J., 4,707,470, Cl. 514-31.00.
Koestler, Thomas P., 4,701,408, Cl. 435-7.000.
Labaw, Clifford S.; and Tremper, Alan W., 4,705,862, Cl. 548-215.000.
Lam, Bing L.; and Pridgen, Lendon N., 4,675,406, Cl. 544-320.00.
Lindsey, Thomas O.; and Zavy, Michael T., 4,711,897, Cl. 514-665.000.
Menon, Govind K.; and Sanders, Winfred J., 4,680,308, Cl. 514-340.000.
Moore, Michael L., 4,711,877, Cl. 514-11.000.
Mutschler, Carl E.; and Warner, Mark E., 4,702,595, Cl. 356-39.00.
Sitrin, Robert D.; Snader, Kenneth M.; and Wasserman, Gail F., 4,667,024, Cl. 536-16.900.
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Rapkin, Myron C.; Schoengold, Ronald J.; Shockey, David R.; and Van Rysselberghe, Pierre C., 4,678,757, Cl. 436-169.000.

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Roantree, Michael L.; and Young, Rodney C., 4,656,176, Cl. 514-256.000.

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Smiths Industries Aerospace & Defense Systems Inc.: *See*—
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Smiths Industries Public Limited Company: *See*—
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Beckley, Keith A.; Jacob, Neil R.; and Trussler, Geoffrey A., 4,689,991, Cl. 73-304.00C.
Brooks, Kenneth J.; Wilkinson, Michael A.; Hannam, Peter H.; and Whiteside, Neil A., 4,702,252, Cl. 128-344.000.
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Postbeschild, John W., 4,665,630, Cl. 34-54.000.
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Smolders, Cornelis. Rotating cutting element. 4,706,534, 11-17-87, Cl. 83-844.000.
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Snead, Wilford A., to Unitek Corporation. Orthodontic plier. 4,669,979, 6-2-87, Cl. 433-4.000.

Snedecor, Tarver G., Jr.: *See—*
Morris, Thomas E.; and Snedecor, Tarver G., Jr., 4,647,210, Cl. 356-410.000.

Snedeker, Marvin L., to Labeltape Meditect Inc. Wound dressing. 4,664,106, 5-12-87, Cl. 128-156.000.

Snedeker, Munson R.; and O'Connor, Rodney J., to Texas Romec, Inc. Liquid applicator for carpets and rugs. 4,688,959, 8-25-87, Cl. 401-283.000.

Snedeker, Richard S., to Aeronatical Research Associates of Princeton, Inc. Modular armor. 4,683,800, 8-4-87, Cl. 89-36.020.

Snedeker, Robert W.: *See—*
McAllister, Merlan E.; and Snedeker, Robert W., 4,649,961, Cl. 138-118.100.

Snee, Ronald W., to Safetran Systems Corporation. Solid state railroad lights/gate controller. 4,703,303, 10-27-87, Cl. 340-47.000.

Sneed, Elbert L., Jr.: *See—*
Grewal, Kalwant S.; Ordun, Michael R.; Quan, Zoe S.; Sawyer, Albert J.; and Sneed, Elbert L., Jr., 4,689,815, Cl. 379-269.000.

Sneider, Vincent R. Disposable sanitary breast pad for a brassiere. 4,674,510, 6-23-87, Cl. 128-481.000.

Snel, Johannes J. M.: *See—*
Wife, Richard L.; Snel, Johannes J. M.; and Van Oort, Aart B., 4,683,338, Cl. 568-12.000.

Snell, Gerald T.: *See—*
Butcher, William T.; Furlong, James J.; Howe, Dwayne E.; Snell, Gerald T.; and Yara, Calvin M., 4,679,117, Cl. 361-181.000.

Snell, Kenneth D.: *See—*
Combs, Daniel J.; Martin, Sylvia; Tremmel, Robert A.; Snell, Kenneth D.; Kamitani, Masaaki; Kimizuka, Ryoichi; and Koga, Takaaki, 4,699,696, Cl. 204-44.200.

Snellgrove, Timothy R.: *See—*
Morritt, Graham N.; Paes, Malvolio L.; Conacher, Ian D.; Gutridge, John R.; and Snellgrove, Timothy R., 4,648,386, Cl. 128-[illegible].000.

Snelling, William E.; and Penn, John E., to Johns Hopkins University, The. Guild array multiplier for binary numbers in two's complement notation. 4,706,210, 11-10-87, Cl. 364-758.000.

Snellman Wasenius, Kaija A.: *See—*
Andersson, Jan A. R.; Moren, Nils F. E.; Wetterlin, Kjell I. L.; Snellman Wasenius, Kaija A.; and Virtanen, Risto, 4,641,644, Cl. 128-200.230.

Sneyd, James C., Jr.; Harris, Robert D.; and Latimer, Margaret G., to Kimberly-Clark Corporation. Foraminous net cover for absorbent articles. 4,710,185, 12-1-87, Cl. 604-372.000.

Snia Fibre S.p.A.: *See—*
D'Andolfo, Francesco; Grampa, Fulvio; Mazzacchera, Giuseppe; and Rolando, Aurelio, 4,675,142, Cl. 264-103.000.
Magni, Eugenio; and Pernetti, Claudio, 4,668,241, Cl. 8-638.000.

Snia Viscosa S.p.A.: *See—*
Magni, Eugenio; and Pernetti, Claudio, 4,668,241, Cl. 8-638.000.

Snider, Danny G.: *See—*
Kern, Mark T.; Hodges, Steven E.; Snider, Danny G.; and Shamordola, Kenneth A., 4,701,624, Cl. 250-554.000.

Snider, Harry J., deceased: *See—*
Weder, Donald E.; Weder, Erin H.; Ruth, Howard M.; King, Michael J.; Craig, Franklin J.; Jones, Larry J.; Badgley, Kenton D.; Snider, Harry J., deceased; Snider, Laura, legal representative; Dye, S. Owen; Wiedner, Clay R.; Weder, Bill C.; and Langenberg, Robert L., 4,646,388, Cl. 19-80.00R.

Snider, Joel M.: *See—*
Cuthbert, Victor W.; and Snider, Joel M., 4,692,987, Cl. 29-455.00R.
Mulder, James R.; and Snider, Joel M., 4,656,844, Cl. 68-17.00A.

Snider, John N.: *See—*
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Snider, Laura, legal representative: *See—*
Weder, Donald E.; Weder, Erin H.; Ruth, Howard M.; King, Michael J.; Craig, Franklin J.; Jones, Larry J.; Badgley, Kenton D.; Snider, Harry J., deceased; Snider, Laura, legal representative; Dye, S. Owen; Wiedner, Clay R.; Weder, Bill C.; and Langenberg, Robert L., 4,646,388, Cl. 19-80.00R.

Snider, Michael: *See—*
Easton, Joseph E.; and Snider, Michael, 4,656,673, Cl. 2-247.000.

Snider, Ovis A. Post driving implement. 4,665,994, 5-19-87, Cl. 173-90.000.

Snider, Robert C. Portable stool. 4,708,308, 11-24-87, Cl. 248-165.000.

Snider, S. Duke; and May, Kevin M., to Emerson Electric Co. Electric motor with shrouded fan. 4,670,677, 6-2-87, Cl. 310-63.000.

Snider, Scott C.; and DeLeon, Alberto, to Celotex Corporation, The. Polyisocyanurate foams from digestion products of polyalkylene terephthalate polymers and polyols. 4,711,912, 12-8-87, Cl. 521-125.000.

Snider, Warren E.: *See—*
Carlson, Gerald L.; Pensenstadler, David F.; Snider, Warren E.; and Byers, William A., 4,713,618, Cl. 324-438.000.
Hickam, William M.; and Snider, Warren E., 4,635,468, Cl. 73-19.000.

Snipes, Carl E.; and Coleman, John S., to Dow Chemical Company, The. Extraction of teichomycin A_2 from whole culture fermentation broth. 4,696,817, 9-29-87, Cl. 424-123.000.

Snitzer, Elias; and Ezekiel, Shaoul, to Polaroid Corporation. Superradiant light source. 4,637,025, 1-13-87, Cl. 372-1.000.

Snitzer, Elias, to Polaroid Corporation. Optical amplifier. 4,712,075, 12-8-87, Cl. 330-4.300.

Snitzer, Elias: *See—*
Dunphy, James R.; Meltz, Gerald; and Snitzer, Elias, 4,653,906, Cl. 356-32.000.
Hakimi, Farhad; Po, Hong; and Snitzer, Elias, 4,680,767, Cl. 372-6.000.
Morey, William W.; and Snitzer, Elias, 4,711,524, Cl. 350-96.250.

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Snoble, Karel A. J.: *See—*
Kalnins, John M.; McIntyre, James A.; Moyer, John R.; Phillips, Robert F.; and Snoble, Karel A. J., 4,701,247, Cl. 204-131.000.

Snodgrass, Gary B. Automatically reacting safety sign. 4,674,212, 6-23-87, Cl. 40-593.000.

Snoke, Steven R.: *See—*
Casteen, Lynn A.; Gilbert, Kim T.; Patel, Raj L.; and Snoke, Steven R., 4,673,546, Cl. 376-289.000.

Snook, Clive: *See—*
Larsen, Eigil; Lien, Eldar; and Snook, Clive, 4,679,178, Cl. 367-157.000.

Snook, Harvey; and Hughes, Terence C., to W.S.R. Pty. Ltd. Magnetic flotation. 4,657,666, 4-14-87, Cl. 209-8.000.

Snook, James A.; Nelson, Thomas W.; Wyble, Marilyn S.; and Trimble, Russell L., to Puritan-Bennett Corporation. Inspiration oxygen saver. 4,706,664, 11-17-87, Cl. 128-204.230.

Snook, Matthew L.: *See—*
Groves, William A.; Snook, Matthew L.; and Browen, Rodney. 4,642,561, Cl. 324-73.00R.
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Snopko, Paul A.: *See—*
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Snouse, Thomas W.: *See—*
Faria, Carl R.; and Snouse, Thomas W., 4,685,193, Cl. 29-558.00.

Snow, A. Ray. Liquid level indicator. 4,649,746, 3-17-87, Cl. 73-290.00R.

Snow, Arthur W.: *See—*
Barger, William R.; Jarvis, Neldon L.; Snow, Arthur W.; and Wohltjen, Henry, 4,636,767, Cl. 338-34.000.

Snow, Bennie E.: *See—*
Martens, Alan; and Snow, Bennie E., 4,638,630, Cl. 60-39.182.

Snow Brand Milk Products Co., Ltd.: *See*—
Hori, Tomoshige; and Itoh, Kensuke, 4,663,169, Cl. 426-38.000.
Kawakami, Hiroshi; Shinmoto, Hiroshi; Dosako, Shunichi; and Ahiko, Kenkichi, 4,668,771, Cl. 530-366.000.
Seike, Noboru; Teranishi, Masatoshi; and Sakai, Minoru, 4,653,475, Cl. 128-4.000.
Taneda, Kozo; Chiba, Masae; Naka, Junichi; and Watanabe, Shunichi, 4,653,963, Cl. 406-70.000.
Snow, Dane R.; and Bingham, David, to Intersil, Inc. Pulse position modulated regulation for power supplies. 4,683,528, 7-28-87, Cl. 363-21.000.
Snow, Harold. Hand driven precision tapping system. 4,702,131, 10-27-87, Cl. 81-177.500.
Snow, Richard F.: *See*—
Smith, Donald C.; Snow, Richard F.; and Pauli, George B., 4,703,403, Cl. 362-268.000.
Snow, Richard H.: *See*—
Bridges, Jack E.; Dev, Harsh; Snow, Richard H.; and Taflove, Allen, 4,670,634, Cl. 219-10.410.
Snow, Robert J.: *See*—
Horsley, Richard R.; Jones, Robert L.; and Snow, Robert J., 4,688,588, Cl. 137-13.000.
Snow, Wayne R.; Isliker, Gaston R.; and Johnson, Colin A., deceased (by Johnson, Barbara F., executor), to Allied Corporation. Tubular bi-metal connector. 4,690,480, 9-1-87, Cl. 439-364.000.
Snowball, Malcolm R.; and Hayes, Cecil, to W. M. Still & Sons Limited. Coffee making apparatus incorporating metered dispensing. 4,682,537, 7-28-87, Cl. 99-282.000.
Snowden, Ralph E.; and Whitley, Robert D., to Motorola, Inc. Circuit for selectively extending a cycle of a clock signal. 4,636,656, 1-13-87, Cl. 307-267.000.
Snowden, Thomas M., Jr.; and Wells, Barbara J. Electrically conductive resinous bond and method of manufacture. 4,666,547, 5-19-87, Cl. 156-280.000.
Snowsill, Phillip J.: *See*—
Brown, Michael; Martin, Sharon P.; Seaton, Andrew; Snowsill, Phillip J.; Thomas, Mark S.; and Williams, Hywel, 4,657,479, Cl. 415-138.000.
Snyder, Bobbie L., to Fixtures Manufacturing Corporation. Lounge construction. 4,657,302, 4-14-87, Cl. 297-232.000.
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Gelardi, Paul J.; Lindberg, Terry D.; and Snyder, Connie M., 4,662,579, Cl. 242-199.000.
Snyder, Daniel R.: *See*—
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Snyder, Daniel S., to Clevite Industries Inc. Liquid level indicator system. 4,644,789, 2-24-87, Cl. 73-290.00V.
Snyder, David A.: *See*—
Cooper, Frank W., Jr.; Howard, Bruce A.; and Snyder, David A., 4,639,994, Cl. 29-402.010.
Cooper, Frank W., Jr.; Howard, Bruce A.; and Snyder, David A., 4,688,327, Cl. 29-726.000.
Snyder, David E.: *See*—
Parsons, James D.; and Snyder, David E., 4,677,451, Cl. 357-22.000.
Snyder, Donald Q., to AT&T Technologies Inc. Methods of end finishing a lightguide fiber termination. 4,649,670, 3-17-87, Cl. 51-284.00R.
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Snyder, Edward J.; and Barbetti, Jamie L., to Summagraphics Corporation. Two-dimensional position coordinate determination device with U-shaped delay line. 4,689,448, 8-25-87, Cl. 178-19.000.
Snyder, Francis H., Jr. Home chocolate processing apparatus. 4,706,558, 11-17-87, Cl. 99-455.000.
Snyder, Gilbert R., to Motorola, Inc. Multi-option deferred action battery. 4,699,854, 10-13-87, Cl. 429-114.000.
Snyder, Howard E., to United States of America, Air Force. Damaged radar radome repair method. 4,668,317, 5-26-87, Cl. 156-98.000.
Snyder Industries, Inc.: *See*—
Snyder, Larry L.; Hansen, Lavelle H.; and Florer, Richard, 4,660,733, Cl. 220-69.000.
Snyder, James P.: *See*—
Chorvat, Robert J.; Fowler, Kerry W.; and Snyder, James P., 4,704,382, Cl. 514-85.000.
Snyder, John D.: *See*—
Dolan, Michael J.; Hilbert, Timothy L.; and Snyder, John D., 4,678,483, Cl. 55-97.000.
Snyder, Keith A.: *See*—
Donson, William A.; Ellerson, James V.; Hammer, Richard B.; Lafer, William; and Snyder, Keith A., 4,690,833, Cl. 427-96.000.
Snyder, Kenneth L., Jr.; and Evani, Syamalarao, to Dow Chemical Company, The. Water-based hydraulic fluids comprising poly-oxazines or poly-oxazolines. 4,702,854, 10-27-87, Cl. 252-75.000.
Snyder Laboratories, Inc.: *See*—
Atkinson, Robert W., 4,635,621, Cl. 128-66.000.
Atkinson, Robert W., 4,655,197, Cl. 128-66.000.
Atkinson, Robert W.; and Laco, Michael J., 4,669,453, Cl. 128-66.000.
Olson, Daniel H., 4,679,596, Cl. 137-853.000.
Olson, Daniel H., 4,692,140, Cl. 604-40.000.
Weilbacher, Eugene E., 4,664,652, Cl. 604-133.000.
Snyder, Larry L., to Harrison Western Corporation. Tunnel boring machine. 4,637,657, 1-20-87, Cl. 299-31.000.
Snyder, Larry L.; Hansen, Lavelle H.; and Florer, Richard, to Snyder Industries, Inc. Cone bottom tank and liftable tank support. 4,660,733, 4-28-87, Cl. 220-69.000.
Snyder, Leon T.; Scarfone, Frank A.; Reuss, James L.; Campen, George V.; and Yates, George H., to Tri Fund Research Corporation. Multi-channel ventilation monitor and method. 4,686,999, 8-18-87, Cl. 128-716.000.
Snyder, Lynn K.: *See*—
Koblitz, Francis F.; and Snyder, Lynn K., 4,714,801, Cl. 174-88.00R.
Snyder, Ralph E.: *See*—
Pal, Uday B.; and Snyder, Ralph E., 4,688,724, Cl. 239-424.000.
Snyder, Richard H.: *See*—
Frazzell, Michael E.; and Snyder, Richard H., 4,642,057, Cl. 440-52.000.
Snyder, Robert B.: *See*—
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Snyder, Robert F., to Raymond Engineering Inc. Torque tool. 4,665,756, 5-19-87, Cl. 73-862.210.
Snyder, Robert G.: *See*—
Wierzba, Robert B.; Snyder, Robert G.; and Kleefisch, Blaise H., 4,639,381, Cl. 427-156.000.
Snyder, Robert P.: *See*—
Nowicki, Casimir W.; Lucius, Thomas A.; Kaminski, Ronald S.; and Snyder, Robert P., 4,680,000, Cl. 425-126.00R.
Snyder, Robert S.: *See*—
Van Alstine, James M.; Harris, J. Milton; Shafer, Steve; Snyder, Robert S.; and Herren, Blair, 4,690,749, Cl. 204-299.00R.
Snyder, Seth. Apparatus and method for reestablishing previously established settings on the controls of an audio mixer. 4,677,674, 6-30-87, Cl. 381-58.000.
Snyder, Steven A.; Smith, Jack; Flora, David D.; and Bartlett, Robert L., to Shopsmith, Inc. Duplicating system for a lathe. 4,694,713, 9-22-87, Cl. 82-14.00R.
Snyder, Steven A., to Shopsmith, Inc. Portable dust collector. 4,715,872, 12-29-87, Cl. 55-315.000.
Snyder, Teddy R., to Ol Forest Products STS Inc. Collapsible bulk shipping container. 4,691,859, 9-8-87, Cl. 229-23.00R.
Snyder, Teddy R., to Ol Forest Products STS Inc. Collapsible bulk shipping container. 4,693,411, 9-15-87, Cl. 229-23.00R.
Snyder, Teddy R., to Ol Forest Products STS Inc. Collapsible bulk shipping container with take-out front panel. 4,697,731, 10-6-87, Cl. 229-23.00R.
Snyder, Thomas S.; Burgman, Herbert A.; and Mitchell, Edward, to Westinghouse Electric Corp. Filter element reduction method. 4,715,992, 12-29-87, Cl. 252-628.000.
Snyder, Walter C.: *See*—
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Snyder, Warren E., to Dresser Industries, Inc. Carburetion system for engines. 4,638,783, 1-27-87, Cl. 123-527.000.
Snyder, Warren E., to Dresser Industries, Inc. Method and apparatus for carburetion. 4,686,951, 8-18-87, Cl. 123-527.000.
Snyder, Warren E.: *See*—
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Snyder, Wayne. Hydroversion. 4,646,521, 3-3-87, Cl. 60-491.000.
Snyder, Wayne E. Hydraulic clutch #III. 4,674,615, 6-23-87, Cl. 192-61.000.
Snyder, William E., to Procter & Gamble Company, The. Nonlathering cleansing mousse with skin conditioning benefits. 4,708,813, 11-24-87, Cl. 252-90.000.
Snyder, William J.; and Kobayashi, Hisashi, to Union Carbide Corporation. Flame stabilized post-mixed burner. 4,693,680, 9-15-87, Cl. 431-10.000.
Snyder, William J., to Union Carbide Corporation. Method for igniting a multiburner furnace. 4,699,586, 10-13-87, Cl. 431-6.000.
SnyderGeneral Corporation: *See*—
Hoeffken, Russell W., 4,649,894, Cl. 126-119.000.
Hoeffken, Russell W.; and Wiese, John M., 4,663,837, Cl. 29-727.000.
Redington, Gordon F., 4,648,854, Cl. 474-114.000.
Snyders, Robert V. Ventricular assist device. 4,690,134, 9-1-87, Cl. 128-64.000.
So, Eddy; and Moore, William J. M., to Canadian Patents and Development Limited-Societe Canadienne des Brevets et d'Exploitation Limitee. Digital-to-analog converter. 4,638,302, 1-20-87, Cl. 340-347.0DA.
So, Hidetoshi: *See*—
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So, Hock C.: *See*—
Hartmann, Robert F.; Chan, Yiu-Fai; Frankovich, Robert J.; Ou, Jung-Hsing; So, Hock C.; and Wong, Sau-Ching, 4,713,792, Cl. 364-900.000.
So, Vincent C.; Hughes, Richard P.; Vella, Paul J.; Huszarik, Fred A.; and Mariani, Renato, to Northern Telecom Limited. Test instrument for an optical fiber. 4,671,653, 6-9-87, Cl. 356-73.100.
So, Vincent C.; Hughes, Richard P.; and Vella, Paul J., to Northern Telecom Limited. Attenuator for optical fiber. 4,697,869, 10-6-87, Cl. 350-96.150.
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Soares, Paul, to Silicon Valley Group, Inc. Balance mechanism for movable jaw chuck of a spin station. 4,700,595, 10-20-87, Cl. 82-40.00R.
Sobel, Alvin A.: *See*—
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Sobel, Amos, to Elbit Computers Ltd. Electronic magnetic compass system. 4,686,772, 8-18-87, Cl. 33-333.000.
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Sobel, David D. Hand held exercise device. 4,651,988, 3-24-87, Cl. 272-143.000.
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Sober, Norman, to Bloom, Leonard, a part interest. Toy for amusement and/or exercise. 4,674,987, 6-23-87, Cl. 446-170.000.
Soberalski, Edward D.; and Miller, Craig, to Haworth, Inc. Keyboard support with automatic lowering mechanism. 4,706,919, 11-17-87, Cl. 248-281.100.
Soberay, Ronald T.: *See*—
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Soberay, Thaddeus; and Soberay, Ronald T. Vacuum press. 4,666,551, 5-19-87, Cl. 156-382.000.
Soberg, John P.: *See*—
Kirschmann, John D.; and Soberg, John P., 4,691,850, Cl. 222-642.000.
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Aboukrat, Simon; Catoir, Lucien; Guatelli, Jean-Luc; and Sobiepanek, Janusz, 4,703,212, Cl. 310-218.000.
Sobieralski, Theodore J., to Dow Chemical Company, The. Impure zinc powder, preparation thereof, and use as a selective reductant for pentachloropyridine. 4,640,712, 2-3-87, Cl. 75-251.000.
Sobieski, James F., to Minnesota Mining and Manufacturing Company. Electrophotographic copying apparatus and process. 4,652,114, 3-24-87, Cl. 355-3.0CH.
Sobieski, James F.; and Muehlhausen, Robert A., to Minnesota Mining and Manufacturing Company. Electrophotographic copying apparatus and process. 4,657,371, 4-14-87, Cl. 355-3.00R.
Soble, Clifford N.: *See*—
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Soble, Irwin F. Apparatus for self-manipulation of a spinal vertebrae. 4,666,153, 5-19-87, Cl. 272-144.000.
Sobocienski, James Robert: *See*—
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Sobocienski, Lorraine: *See*—
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Sobottka, Richard: *See*—
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Sobottka, Ulrich, to Siemens Aktiengesellschaft. Small transformer with shield. 4,652,846, 3-24-87, Cl. 336-84.00C.
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Riva, Ermete, 4,653,701, Cl. 242-47.010.
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Conrad, Peter G., 4,708,080, Cl. 114-103.000.
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Soca, Serge, to Thomson Video Equipment. Device and method for reducing the amplitude range of signals representing an image. 4,712,132, 12-8-87, Cl. 358-37.000.
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Socapex S.A.: *See*—
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Socsred S.A.: *See*—
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Chang, Clarence D.; Pentek, Joe E.; and Socha, Richard F., 4,678,645, Cl. 422-190.000.
Sochor, Jerzy R.: *See*—
Lee, James C. K.; Amdahl, Gene M.; Beck, Richard L.; Quinn, Robert F.; and Sochor, Jerzy R., 4,667,219, Cl. 357-68.000.
Sochor, Josef, to Robert Bosch GmbH. Push-pull amplifier and method for operation, particularly recording amplifier for video tape recorders. 4,638,382, 1-20-87, Cl. 360-68.000.
Sociedad Anonima de Industrias Plasticas (S.A.I.P.): *See*—
Zamora, Pedro C., 4,666,192, Cl. 285-322.000.
Sociedad Anonima de Racionalizacion y Mecanizacion (Sadrym): *See*—
Gutierrez-Rubio, Joaquin, 4,679,499, Cl. 99-591.000.
Ollero Pina, Juan Carlos; Gonzalez Centeno, Engracia; and Varela Fuentes, Manuel, 4,663,174, Cl. 426-282.000.
Sociedad Anonima de Racionalizacion y Mechanizacion (SADRYM): *See*—
Gutierrez Rubio, Joaquin; and Garrido-Diaz, Antonio, 4,644,859, Cl. 99-494.000.
Gutierrez Rubio, Joaquin, 4,646,632, Cl. 99-538.000.
Ollero-Pina, Juan C.; and Garrido-Diaz, Antonio, 4,638,914, Cl. 209-617.000.
Sociedad Espanola del Acumulador Tudor, S.A.: *See*—
Lopez-Doriga, Juan A., 4,634,642, Cl. 429-121.000.
Societa' Cavi Pirelli S.p.A.: *See*—
Bortolin, Bruno; and Borgonovo, Sergio, 4,690,496, Cl. 350-96.210.
Dotti, Enrico; and Sala, Angelo, 4,676,540, Cl. 294-86.400.
Giorgio, Giancarlo; and Parmigiani, Bruno, 4,638,112, Cl. 174-22.00R.
Lanfranconi, Gianmario; and Vecellio, Bernardino, 4,642,411, Cl. 174-22.00R.
Magnani, Francesco; and Invernizzi, Attilio, 4,703,135, Cl. 174-135.000.
Marin, Carlo; Lanfranconi, Gianmario; and Borroni, Andrea, 4,698,009, Cl. 425-196.000.
Occhini, Elio; and Bianchi, Giuseppe, 4,690,497, Cl. 350-96.230.
Olivares, Sergio, 4,685,416, Cl. 118-125.000.
Parmigiani, Bruno; and Lanfranconi, Gianmario, 4,698,458, Cl. 174-73.00R.
Pasini, Franco; and Anelli, Pietro, 4,688,889, Cl. 350-96.230.
Portinari, Antonio, 4,673,540, Cl. 264-1.500.
Priaroggia, Paolo G., 4,676,590, Cl. 350-96.230.
Priaroggia, Paolo G., 4,690,498, Cl. 350-96.230.
Priaroggia, Paolo G., 4,697,875, Cl. 350-96.230.
Priaroggia, Paolo G., 4,699,459, Cl. 350-96.210.
Priaroggia, Paolo G., 4,704,170, Cl. 156-53.000.
Sala, Angelo, 4,659,868, Cl. 174-23.00R.
Vallauri, Ubaldo; and Lombardi, Gino, 4,654,241, Cl. 429-36.300.
Societa Impianti Elettrici Telefonici Telegrafici E Costruzioni Edili S.p.A.: *See*—
Morra, Luigi, 4,674,768, Cl. 280-707.000.
Societa' Italiana Catene Calibrate Regina S.p.A.: *See*—
Ancarani Restelli, Amedeo, 4,642,073, Cl. 474-111.000.
Restelli, Amedeo A., 4,669,581, Cl. 188-24.120.
Societa' Italiana per l'Esercizio Telefonico p.a.: *See*—
Astegiano, Luciano; Bertoglio, Ottavio; Bosco, Fulvio; de Bosi, Alfredo; Franco, Dario; Lampiano, Piero; Melle, Antonio; and Rosboch, Luciano, 4,706,270, Cl. 379-2.000.
Societa Italiana Vetro-Siv-S.p.A.: *See*—
Cestaro, Massimo; and Paudice, Ciro, 4,655,589, Cl. 356-35.000.
Societa Italo-Brittanica L. Manetti-H. Roberts & Co.: *See*—
De Regis, Massimo; and Mannucci, Emanuela, 4,698,354, Cl. 514-357.000.
Societa' Italtractor Meccanica Itm S.p.A.: *See*—
Crotti, Aldo, 4,695,102, Cl. 305-11.000.
Societa' Pneumatici Pirelli S.p.A.: *See*—
Semin, Fikret; Guermandi, Romano; and Cucco, Gian C., 4,641,696, Cl. 152-209.00R.
Societe a Responsabilite Limitee Dite: "Korano": *See*—
Brochon, Marie-Jose ; and Corot, Anne-France, 4,668,778, Cl. 536-121.000.
Societe a Responsabilite Limitee dite: Le Materiel Biomedical: *See*—
Benajam, Alain C. A., 4,687,638, Cl. 422-73.000.
Societe a Responsabilite Limitee l'Electricfil Industrie: *See*—
Kohen, Isak, 4,680,543, Cl. 324-208.000.
Societe ACC EL: *See*—
Servent, Jean M., 4,704,095, Cl. 464-37.000.
Societe Alsacienne D-Aluminium: *See*—
Wolfersperger, Daniel J., 4,636,273, Cl. 156-244.110.
Societe Alsacienne de Construction de Material Textile: *See*—
Venot, Jean, 4,691,743, Cl. 139-291.00C.
Societe Alsacienne de Constructions Mecaniques de Mulhouse: *See*—
Delesalle, Jacques, 4,641,613, Cl. 123-179.00H.
Societe Amenagement Urbain et Rural S.A.: *See*—
Degun, Alain, 4,708,794, Cl. 210-189.000.
Societe Anonyme Barras-Provence, The: *See*—
Bernardin, Michel, 4,653,971, Cl. 414-8.000.
S.A. Biscuits DuBois: *See*—
Pauron, Jacques, 4,664,027, Cl. 99-450.600.
Societe Anonyme: Boxy Industries: *See*—
Ostermann, Michel E.; and Meriaux, Etienne M., 4,686,251, Cl. 523-448.000.
S.A. Compagnie Internationale: *See*—
Massarsch, Karl R., 4,699,546, Cl. 405-271.000.
S.A. Compagnie Internationale des Pieux Armes Frankignoul: *See*—
Massarsch, Karl, 4,685,835, Cl. 405-263.000.

ete Anonyme Curty: *See—*
Lucas, Jacques D. H.; and Samson, Dominique H. P. M., 4,635,949, Cl. 277-235.00B.
ete Anonyme D.B.A.: *See—*
Carre, Jean-Jacques; Kervagoret, Gilbert; and Levrai, Roland, 4,651,528, Cl. 60-556.000.
Carre, Jean-Jacques; and Pressaco, Pierre, 4,660,684, Cl. 188-71.900.
Carre, Jean-Jacques, 4,672,812, Cl. 60-547.100.
Couvez, Marc, 4,690,254, Cl. 188-73.360.
Denree, Michel; and Michaud, Jean-Yves, 4,657,119, Cl. 188-79.50R.
Kervagoret, Gilbert, 4,637,208, Cl. 60-547.100.
Kervagoret, Gilbert, 4,641,497, Cl. 60-563.000.
Kervagoret, Gilbert, 4,705,324, Cl. 303-119.000.
Lombardi, Michel; and Gerard, Jean-Louis, 4,641,730, Cl. 188-73.450.
Perrin, Alain; and Moinard, Patrice, 4,637,747, Cl. 403-23.000.
Pressaco, Pierre; and Sauvee, Jean-Paul, 4,705,147, Cl. 188-196.00D.
Sauvee, Jean P.; and Pressaco, Pierre, 4,699,253, Cl. 188-71.900.
Sauvee, Jean P., Riquart, Christian; and Levrai, Roland, 4,709,550, Cl. 60-562.000.
ete Anonyme de Telecommunications: *See—*
Bailly, Francois P.; and Bourgoin, Alain, 4,682,355, Cl. 379-346.000.
Barbier, Xavier N.; and de Passoz, Guy A., 4,653,091, Cl. 379-324.000.
Besson, Jean G., Royer, Michel; Salaville, Andre A.; and Sirletx, Michel B., 4,661,713, Cl. 250-578.000.
Bigot, Georges; and Lonnoy, Jacques J., 4,699,332, Cl. 244-3.110.
Calevo, Robert; Dewez, Vincent; and Garcia, Marcel, 4,634,216, Cl. 350-96.210.
Carpentier, Yves; and Gauthier, Andre, 4,636,631, Cl. 250-216.000.
de Fleurieu, Bertrand M. C.; Couderc, Jean-Pierre L.; and Lonnoy, Jacques J., 4,656,219, Cl. 356-152.000.
Devimeux, Daniel P. Y.; and Jolivet, Jean-Claude R., 4,660,079, Cl. 358-141.000.
Guerillot, Yves M. N., 4,709,227, Cl. 340-347.0DD.
Midavaine, Thierry, R.; and Ouhayoun, Michel M., 4,694,458, Cl. 372-32.000.
Minsout, Bernard M.; Michaux, Jean-Pierre; and Piova, Jean-Luc, 4,635,430, Cl. 57-6.000.
Piganeau, Thierry, 4,636,828, Cl. 357-30.000.
Riou, Armand J., 4,646,328, Cl. 375-114.000.
Troboulet, Robert; Didier, Gerard; Durand, Alain; and Royer, Michel, 4,662,980, Cl. 156-604.000.
ete Anonyme des Ateliers Houget Duesberg Bosson: *See—*
Lousberg, Pierre, 4,658,575, Cl. 57-274.000.
des ETS Marceau AMALRIC: *See—*
Esteve, Gerard; and Amalric, Jean, 4,670,016, Cl. 8-94.160.
ete Anonyme des Usines Chausson: *See—*
Allemandou, Michel, 4,649,628, Cl. 165-148.000.
Clair, Patrice, 4,707,905, Cl. 29-446.000.
Moranne, Jean-Pierre, 4,651,821, Cl. 165-175.000.
Postier, Gerard, 4,664,551, Cl. 403-335.000.
te Anonyme Dite: *See—*
Enarque, Jean; and Camand, Michel, 4,680,775, Cl. 375-39.000.
te anonyme dite: AATON RG.: *See—*
Beauviala, Jean-Pierre; and Charras, Jean-Pierre, 4,659,198, Cl. 352-92.000.
te Anonyme Dite Alcatel Thomson Gigadisc: *See—*
Benhamou, Alain, 4,659,620, Cl. 428-328.000.
te Anonyme dite: BIOTHERM: *See—*
Barissal, Jeanine; and Aubert, Lucien P., 4,684,522, Cl. 424-195.100.
te Anonyme Dite: Laboratoire L. Lafon: *See—*
Lafon, Louis, 4,713,395, Cl. 514-575.000.
Lafon, Louis, 4,714,699, Cl. 514-227.000.
e anonyme dite Legris: *See—*
Legris, Andre; and Levenez, Yves, 4,658,849, Cl. 137-82.000.
e Anonyme Dite "l'Equipement Routier": *See—*
Lichon, Joseph, 4,672,781, Cl. 52-94.000.
e Anonyme dite: L'Oreal: *See—*
Collier, Jean-Francois; Monnais, Christian; and Peritz, Lyonel, 4,645,663, Cl. 424-62.000.
Lequet, Bernard; Lang, Gerard; Malaval, Alain; Forestier, Serge; and Le Trung, Do, 4,702,906, Cl. 424-70.000.
Lhieu, Claude; and Papantoniou, Christos, 4,673,571, Cl. 424-70.000.
Lhieu, Claude; and Papantoniou, Christos, 4,676,263, Cl. 132-7.000.
Libotto, Arlette; Griat, Jacqueline; and Bracco, Umberto, 4,661,343, Cl. 424-59.000.
Libotto, Arlette; and Contamin, Jean-Claude, 4,673,526, Cl. 252-174.160.
Anonyme Dite "Plymouth Francaise": *See—*
Courville, Arnaud, 4,654,639, Cl. 340-540.000.
Anonyme dite: SICOF S.A.: *See—*
Meenard, Rene , 4,668,547, Cl. 428-40.000.
Anonyme dite: SMH ALCATEL: *See—*
Coutel, Jean-Claude; and Galceran, Christian, 4,633,644, Cl. 53-258.000.
Societe Anonyme Dite Societe Miniere et Metallurgique de Penarroya: *See—*
Caillerie, Jean-Louis; Decaens, Remy; and Limare, Armand, 4,636,354, Cl. 420-514.000.
Caillerie, Jean-Louis; Decaens, Remy; and Limare, Armand, 4,699,815, Cl. 427-433.000.
Societe Anonyme dite: Vide et Traitement: *See—*
Speri, Roger, 4,672,170, Cl. 219-121.0PT.
Societe Anonyme Elf France: *See—*
Grangette, Henri; Llinares, Michel; Bossand, Bernard; and Faure, Alain, 4,708,720, Cl. 44-51.000.
S.A. Fonderies du Lion: *See—*
Herve, Michel, 4,714,073, Cl. 126-91.00R.
Societe Anonyme Francaise du Ferodo: *See—*
Cadars, Patrick, 4,700,749, Cl. 138-38.000.
S.A. Innovi N.V.: *See—*
Geuens, Luc, 4,710,301, Cl. 210-605.000.
Societe Anonyme Kerma: *See—*
Joseph, Claude, 4,645,235, Cl. 280-821.000.
Societe Anonyme: Letra Systemes: *See—*
Etcheparre, Jean; and Etcheparre, Bernard, 4,708,331, Cl. 270-31.000.
Societe Anonyme Nomegasgne Toutlectric: *See—*
Grandclement, Gerard, 4,684,417, Cl. 156-64.000.
Societe Anonyme Recherche, Montage, Production "Polylignes": *See—*
Chureau, Bernard, 4,644,677, Cl. 43-4.000.
Societe Anonyme REDOUTE CATALOGUE: *See—*
Bonneton, Marc; and Janvier, Dominique, 4,678,390, Cl. 414-282.000.
Societe Anonyme: SABLA: *See—*
Roux, Marius, 4,641,858, Cl. 285-94.000.
Societe Anonyme: Societe Europeenne de Propulsion: *See—*
Avisse, Jean-Bernard, 4,694,246, Cl. 324-207.000.
Clebant, Jean-Claude, 4,647,227, Cl. 384-99.000.
Garceau, Patrick; Lhuilery, Patrick; and Dumont, Paul, 4,676,480, Cl. 251-159.000.
Societe Anonyme Styled Legris: *See—*
Legris, Andre, 4,712,809, Cl. 285-21.000.
Societe Anonyme Styled: S.A.E.TIMAC: *See—*
Favard, Christian; de Villele, Hubert; and Gillet, Paul, 4,670,225, Cl. 422-203.000.
Societe Anonyme Styled: Societe Europeenne de Propulsion: *See—*
Brunet, Maurice L.; and Jolivet, Jean-Pierre, 4,692,699, Cl. 324-207.000.
S.A. Vallourec: *See—*
Joet, Francois, 4,665,734, Cl. 73-622.000.
Societe Auxiliaire de Manutention Acceleree de Denrees Alimentaires & Carrosserie Trouillet: *See—*
Leroux, Alain; Fourtet, Jean P.; Hennard, Jean; and Trouillet, Andre, 4,642,018, Cl. 414-502.000.
Societe Bauduin Becart S.A.: *See—*
Lambert, Michel, 4,651,589, Cl. 74-469.000.
Societe Chauvin Arnoux: *See—*
Arnoux, Daniel; Genter, Claude; Anton, Christian; and Nascimben, Eric, 4,704,575, Cl. 324-117.00H.
Arnoux, Daniel; Genter, Claude; and Anton, Christian, 4,708,422, Cl. 350-96.150.
Societe Chimique de la Grande Paroisse, Azote Products Chimiques: *See—*
Schurmans, Jacques; Neukermans, Herman; Quibel, Jacques; and Dupont, Rene , 4,670,187, Cl. 252-373.000.
Societe Chimique des Charbonnages: *See—*
Decroux, Jean-Claude, 4,650,820, Cl. 524-69.000.
Kotwica, Roland, 4,659,433, Cl. 202-173.000.
Levresse, Bernard; Hilt, Edmond; and Bujadoux, Karel, 4,650,841, Cl. 526-68.000.
Societe Chimique des Charbonnages-CdF chimie: *See—*
Nardi, Alain; and Simier, Jean-Noel, 4,690,800, Cl. 422-40.000.
Societe Chimique des Charbonnages S.A.: *See—*
Arlaud, Patrick; Bompis, Herve; and Canard, Pierre, 4,663,393, Cl. 525-165.000.
Gloriod, Pierre; Andureau, Joel; and Pellegrini, Maurice, 4,644,044, Cl. 526-272.000.
Nicco, Adrien; Hubert, Jerome; Druz, Jacques; and Lambla, Morand, 4,657,781, Cl. 427-117.000.
Societe Civile Bioprojet: *See—*
Arrang, Jean-Michel; Garbarg, Monique; Lancelot, Jean-Charles; Lecomte, Jeanne-Marie; Robba, Max-Fernand; and Schwartz, Jean-Charles, 4,707,487, Cl. 514-326.000.
Societe Civile d'Investigations Pharmacologiques d'Aquitaine: *See—*
Masquelier, Jack, 4,698,360, Cl. 514-456.000.
Societe Civile Dite "G.I.R." : *See—*
Jehanno, Jean-Vincent, 4,664,056, Cl. 116-217.000.
Societe Cogema, Framatome et Uranium Pechiney: *See—*
Vere , Bernard; and Mathevon, Paul, 4,680,920, Cl. 53-525.000.
Vere, Bernard; and Mathevon, Paul, 4,700,824, Cl. 198-346.200.
Societe Cogema, Framatome Uranium Pechiney: *See—*
Vere, Bernard; and Mathevon, Paul, 4,646,431, Cl. 29-723.000.
Societe Coninentale du Carton Ondule Socar: *See—*
Ferrari, Hubert, 4,685,609, Cl. 229-15.000.
Societe Cortial, S.A.: *See—*
Creuzet, Marie-Helene; Feniou, Claude; Guichard, Francoise; Pontagnier, Henri; and Prat, Gisele, 4,698,343, Cl. 514-255.000.
Feniou, Claude; and Descas, Patrick, 4,638,082, Cl. 560-62.000.

Pontagnier, Henri; Creuzet, Marie-Helene; Feniou, Claude; Guichard, Francoise; and Prat, Gisele, 4,668,681, Cl. 514-255.000.

Societe Crismatec: *See—*
Lissalde, Francois; Bruno, Delageniere; and Bruno, Ferrieu, 4,660,149, Cl. 364-477.000.

Societe d'Applications Generales d'Electricite et de Mecanique (SAGEM): *See—*
Lamiaux, Sylves; and Kuhn, Alex, 4,715,016, Cl. 365-229.000.
Le Mouellic, Georges; Brun, Jean-Paul; and Gidrol, Jean C., 4,646,263, Cl. 365-1.000.

Societe de Conseils de Recherches et d'Applications Scientifiques. *See—*
Esanu, Andre, 4,681,888, Cl. 514-301.000.
Esanu, Andre, 4,704,454, Cl. 536-24.000.
Follet, Michel; and Bonato, Marc, 4,699,919, Cl. 514-431.000.
Guinot, Philippe M., 4,703,045, Cl. 514-159.000.

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Societe de Construction des Avions Hurel-Dubois: *See—*
Kennedy, John F.; and Fournier, Alain, 4,671,460, Cl. 239-265.190.

Societe de Developpement et Recherches en Machinisme Agricole - Solerma: *See—*
Feller, Marc E., 4,664,043, Cl. 111-51.000.

Societe de Developpements et d'Innovations des Marches Agricoles et Alimentaires - SODIMA: *See—*
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Societe de Dietrich & Cie, S.A.: *See—*
Logel, Bernard; and Reymann, Jean-Charles, 4,654,568, Cl. 219-400.000.

Societe de Exploitation des Procedes Marechal: *See—*
Magourou, Yves L., 4,640,568, Cl. 339-103.00R.

Societe de Fabrication d'Appareils Automatiques et Sirops dite F.A.A.S (S.a.r.l): *See—*
Ciekanski, Francois, 4,655,266, Cl. 141-82.000.

Societe de Fabrication de Materiel Orthopedique Sofamor: *See—*
Cotrel, Yves P. C. A., 4,641,636, Cl. 128-69.000.

Societe de Fabrication d'Instruments de Mesure: *See—*
Patry, Philippe; and Roy, Jean-Claude, 4,669,809, Cl. 350-1.100.
Roy, Jean-Claude; and Cerutti, Bernard, 4,644,397, Cl. 358-126.000.
Roy, Jean-Claude; and Seugnet, Patrick, 4,644,405, Cl. 358-213.000.

Societe de Maintenance Electronique "SOMELEC": *See—*
Malcombe, Jean-Claude, 4,701,764, Cl. 343-742.000.

Societe de Material de Manutention et de Consassage: *See—*
Caradot, Patrice, 4,676,688, Cl. 404-91.000.

Societe de Paris et du Rhone: *See—*
Mazzorana, Alfred B., 4,637,267, Cl. 74-7.00A.
Mazzorana, Alfred B., 4,662,233, Cl. 74-7.00A.

Societe de Promotion des Procedes Hydro-Metallurgiques: *See—*
Castillo, Jean-Michel; Jankowski, Christian; and Ferlay, Serge, 4,676,877, Cl. 204-10.000.

Societe de Recherches Industrielles: *See—*
Majoie, Bernard; Bellamy, Francois; Dodey, Pierre; and Robin, Jacques, 4,680,402, Cl. 546-235.000.
Picart, Francois, 4,680,411, Cl. 548-430.000.
Robin, Jacques; Pruneau, Didier; and Bonenfant, Alain, 4,710,505, Cl. 514-278.000.

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Heraud, Roger A.; and Amiel, Jacques, 4,640,122, Cl. 73-49.200.

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Bouvaist, Jean; and Ferton, Daniel, 4,659,393, Cl. 148-2.000.

Societe de vente et de fabrication pour le decolletage LNS SA: *See—*
Louis, Alexandre, 4,646,597, Cl. 82-38.00R.

Societe de Verrerie et de Thermometrie: *See—*
Brion, Jean-Claude A.; Brunaud, Claude; Jean, Robert P. H.; and Machet, Rene H., 4,680,671, Cl. 361-329.000.

Societe Degremont: *See—*
Durot, Jean; and Prevot, Claude, 4,707,752, Cl. 210-151.000.

Societe D'Electronique de La Region Pays de Loire: *See—*
Houchangnia, Zavoche, 4,695,844, Cl. 343-781.0CA.

Societe d'Energie de la Baie James: *See—*
Larouche, Gilles, 4,635,417, Cl. 52-239.000.

Societe des Cables du Mans: *See—*
Deligny, Jean, 4,693,137, Cl. 74-501.50R.

Societe des Electrodes et Refractaires "Savoie" (SERS): *See—*
Bernard, Jean-Claude; Chabrier, Patrick; Tahon, Bernard; Tesoriere, Jean-Marc; and Ortega, Domingo, 4,639,929, Cl. 373-120.000.

Societe des Mines et Fonderies de la Vieille Montagne: *See—*
Andre, Jean A., 4,676,828, Cl. 75-101.00R.

Societe d'Etudes de Machines Thermiques: *See—*
Devaux, Alain, 4,662,321, Cl. 123-41.790.
Grabbe, Dieter, 4,635,595, Cl. 123-179.00F.

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Precoul, Michel; and Francois, Jean-Claude, 4,669,386, Cl. 102-476.000.
Precoul, Michel; and Peyroux, Jean S., 4,672,896, Cl. 102-309.000.

Societe d'Etudes et de Recherches de l'Ecole Nationale Superieure d'Arts et Metiers (S.E.R.A.M): *See—*
Duchamp, Robert; Plever, Roland; and Truchot, Patrick, 4,651,638, Cl. 100-211.000.

Societe d'Etudes, Recherches et Constructions Electroniques-Sercel: *See—*
Hullein, Francois; and Fribault, Gerard, 4,639,129, Cl. 356-5.000.
Hullein, Francois; and Bodin, Jacques, 4,664,519, Cl. 356-152.000.

Societe d'Etudes Scientifiques et Industrielles de l'Ile de France: *See—*
Besancon, Francois; and Chast, Francois, 4,661,338, Cl. 424-7.100.
Franceschini, Jacqueline; Gardaix-Luthereau, Renee; and Margrit, Josette, 4,703,055, Cl. 514-400.000.
Howie, Peter W.; and McNeilly, Alan, 4,639,439, Cl. 514-171.000.
Thominet, Michel; Acher, Jacques; and Monier, Jean-Claude, 4,673,686, Cl. 514-359.000.

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Charmeux, Gilbert, 4,684,940, Cl. 340-815.200.
Saccomani, Daniel; and Tarin, Bernard, 4,644,705, Cl. 52-27.000.

Societe D'Exploitation des Establissements Rellumix: *See—*
Ailleu, Guy; and Ecabert, Jacques, 4,659,468, Cl. 210-352.000.

Societe d'Exploitation des Machines Dubuit: *See—*
Dubuit, Jean-Louis; and Rouly, Eric, 4,667,804, Cl. 198-345.000.
Rouly, Eric; Dubuit, Jean-Louis; and Marette, Gilles, 4,690,050, Cl. 101-35.000.

Societe d'Exploitation des Procedes Marechal (SEPM): *See—*
Le Magourou, Yves, 4,678,254, Cl. 439-139.000.

Societe d'Extrusion et de Transformation: *See—*
Brulet, Daniel, 4,716,195, Cl. 524-851.000.

Societe Distrigaz: *See—*
Boulanger, Alain; and Luyten, Walter, 4,689,064, Cl. 62-54.000.

Societe dite: SOGEA: *See—*
Marchand, Denis, 4,704,972, Cl. 110-345.000.

Societe d'Optique, Precision Electronique et Mecanique-Sopelem: *See—*
Baluteau, Jean-Michel; Saint-Sevin, Michel; and Chabanier, Patrick, 4,637,692, Cl. 350-486.000.

Societe E. Lacroix - Tous Artifices: *See—*
Billard, Alain, 4,695,841, Cl. 342-8.000.

Societe Electronique de la Region Pays de Loire: *See—*
Colineau, Joseph; and Ahmari, Hossein, 4,706,115, Cl. 358-60.000.

Societe Europeenne de Propulsion: *See—*
Broquere, Bernard; and Etienne, Jacques, 4,709,457, Cl. 29-156.80R.
Buttazzoni, Bernard; Leseur, Philippe; Thebault, Jacques; and Constant, Georges, deceased, 4,705,694, Cl. 427-2.000.
Habarou, Georges; Etienne, Jacques; and Clebant, Jean-Claude, 4,669,954, Cl. 415-174.000.
Heidmann, Richard; and Miquet, Pierre, 4,671,165, Cl. 89-41.190.
Rosier, Jean-Claude; Fouche, Claude; and Maincent, Gabriel, 4,638,370, Cl. 358-293.000.
Rosier, Jean-Claude, 4,686,541, Cl. 346-108.000.
Rosier, Jean-Claude, 4,694,221, Cl. 315-10.000.
Sauvage, Dominique, 4,654,097, Cl. 156-172.000.
Vives, Michel; and Buttazzoni, Bernard, 4,711,234, Cl. 128-92.01F.

Societe Europeenne de Recherche d'Instrumentations Medicales Company: *See—*
Basuyaux, Michel, 4,655,204, Cl. 128-130.000.

Societe Europeenne des Produits Refractaires: *See—*
Recasens, Joseph, 4,641,589, Cl. 110-341.000.
Rogier, Serge; and Guigonis, Jacques, 4,711,298, Cl. 165-165.000.

Societe Europeenne pour la Defense de l'Invention et de la Creation: *See—*
Bonfils, Georges, 4,651,402, Cl. 29-446.000.

Societe Francaise d'Ampoules Mecaniques: *See—*
Soulard, Dominique, 4,639,179, Cl. 414-223.000.

Societe Francaise de Stockage Geologique Geostock: *See—*
Berezoutzky, Georges, 4,701,072, Cl. 405-57.000.
Boulanger, Alain; and Luyten, Walter, 4,671,700, Cl. 405-56.000.
Boulanger, Alain; and Luyten, Walter, 4,689,064, Cl. 62-54.000.

Societe Francaise d'Equipements pour la Navigation Aerienne (S.F.E.N.A.): *See—*
Gerard, Marcillat, 4,663,972, Cl. 73-517.00R.

Societe Francaise d'Equipments pour la Navigation Aerienne (S.N.E.F.A.): *See—*
Boura, Andre , 4,711,128, Cl. 73-517.00B.
Dubois, Marcel; and Fagard, Pierre, 4,710,766, Cl. 340-784.000.
Kerviel, Alain; and Barbarin, Remy, 4,642,496, Cl. 310-68.00B.

Societe Francaise d'Organo-Synthese: *See—*
Moroux, Julien, 4,637,868, Cl. 204-157.820.

Societe Francaise Hoechst: *See—*
Gimenez, Isabelle; Barbier, Marie-Jeanne; Maximovitch, Suzanne; and Christidis, Yani, 4,692,226, Cl. 204-73.00R.
Mabire, Frederic; and Blanc, Alain, 4,650,877, Cl. 548-319.000.

Societe Generale des Eaux Minerales de Vittel: *See—*
Bonnenfant, Yvon; Odet, Philippe; Perne, Raymond; and Thevenot, Claude, 4,679,696, Cl. 215-252.000.
Brie, Georges; and Cazes, Michel, 4,649,696, Cl. 53-479.000.

Societe Generale d'Etudes et de Materiels Industriels Navals et Informatiques: *See—*
Cartier, Claude J.; Guilhem, Jean R. R.; Guilhem, Jacques R. J.; and Wenger, Roger L. L., 4,648,392, Cl. 128-160.000.

Societe Generale pour l'Industrie Electronique (S.O.G.I.E.) SA: *See—*
Cartesse, Georges, 4,659,162, Cl. 339-128.000.

Societe Hesston S.A.: *See—*
Rossato, Charles L.; and Renaud, Loic M., 4,669,257, Cl. 56-341.000.

Societe Imphy S.A.: *See—*
Fredholm, Allan; Davidson, James H.; Khan, Tasaddaq; and Theret, Jean-Marc C. F., 4,639,280, Cl. 148-404.000.

Societe Industrielle Auer S.A.: *See—*
Henault, Jean-Paul, 4,651,710, Cl. 126-85.00B.

Henault, Jean-Paul; Drapier, Albert; Grochowski, Guy; and Meslif, Alain, 4,677,939, Cl. 122-17.000.

Societe Industrielle Bertrand Faure: *See*—
Boisset, Bernard, 4,668,014, Cl. 297-408.000.

Societe Industrielle de Combustible Nucleaire: *See*—
Cerceau, Jean-Michel; and Hall, H. Tracy, Jr., 4,650,776, Cl. 501-96.000.
Hall, H. Tracy, Jr.; and Cerceau, Jean-Michel, 4,647,546, Cl. 501-96.000.

Societe Industrielle de Liaisons Electriques: *See*—
Calevo, Robert; Dewez, Vincent; and Garcia, Marcel, 4,634,216, Cl. 350-96.210.
Missout, Bernard M.; Michaux, Jean-Pierre; and Piova, Jean-Luc, 4,635,430, Cl. 57-6.000.

Societe Industrielle Pecquet, Tesson: *See*—
Chalimbaud, Max, 4,706,743, Cl. 165-134.100.

Societe Lorraine de Laminage & Continu -Sollac-: *See*—
Kieger, Roger, 4,643,766, Cl. 75-51.400.

Societe Lorraine et Somafer: *See*—
Badinier, Christian; Louhichi, Alain; Annichini, Andre; and Dufour, Alain, 4,675,052, Cl. 134-8.000.

Societe Miniere et Metallurgique de Penerroya: *See*—
Beutier, Didier; and Predali, Jean-Jacques, 4,640,710, Cl. 75-108.000.

Societe National des Poudres et Explosifs: *See*—
Gautier, Jean-Claude C.; Fontanille, Michel H.; and Raynal, Serge F., 4,647,628, Cl. 525-331.700.

Societe National d'Etude et de Construction de Moteurs d'Aviation "S.N.E.C.M.A." : *See*—
Le Maout, Theophile F.; Marchi, Marc R.; and Ollivier, Andre F., 4,668,167, Cl. 416-95.000.

Societe National ELF Aquitaine (Production): *See*—
Lazarre, Flavien, 4,671,099, Cl. 73-30.000.

Societe Nationale de l'Amiante: *See*—
Lalancette, Jean M., 4,645,784, Cl. 523-400.000.

Societe Nationale des Chemins de Fer Francais: *See*—
Prasil, Bernard; and Turbe, Jean-Pierre, 4,700,564, Cl. 73-146.000.
Turbe, Jean-Pierre, 4,662,224, Cl. 73-636.000.
Turbe, Jean Pierre, 4,689,995, Cl. 73-636.000.

Societe Nationale des Poudres et Explosifs: *See*—
Barcelo, Gerard; Senet, Jean-Pierre; and Sennyey, Gerard, 4,652,665, Cl. 556-437.000.
Brasquies, Alain; and Maures, Michel, 4,649,827, Cl. 102-431.000.
Chaussard, Jacques, 4,686,018, Cl. 204-59.00R.
Gautier, Jean-Claude; Lecolier, Serge; Soriaux, Claude; and Chevalier, Sammy, 4,666,513, Cl. 75-117.000.
Gautier, Jean-Claude C.; and Raynal, Serge F., 4,661,608, Cl. 556-11.000.
Gautier, Jean-Claude C.; Fontanille, Michel H.; and Raynal, Serge F., 4,668,313, Cl. 149-19.200.
Godfrin, Jean-Philippe; Landrevie, Bernard; and Escache, Gerard, 4,691,633, Cl. 102-202.000.
Granier, Georges; and Valliere, Yves, 4,690,063, Cl. 102-530.000.
Lagreze, Richard; and Malescot, Georges, 4,701,228, Cl. 149-109.600.
Lebas, Jean-Marie; Rat, Pierre; Dupont, Jean-Marcel; and Vinuesa, Germain, 4,710,329, Cl. 264-3.100.
Lelu, Andre E.; Grignon, Jean R.; Gonthier, Bruno F.; and Tauzia, Jean-Michel, 4,638,715, Cl. 102-290.000.
Malfroot, Thierry; Piteau, Marc; and Senet, Jean-Pierre, 4,697,032, Cl. 558-270.000.
Maures, Michel; Pasdeloup, Jacques; and Lespinasse, Patrick, 4,705,655, Cl. 264-3.400.
Perichon, Jacques; Rabemanantsoa, Amelie; Sibille, Soline; and D'Iucan, Esther, 4,637,863, Cl. 204-59.00R.
Perotto, Christian; and Ragon, Philippe, 4,657,607, Cl. 149-19.400.
Ropars, Marcel; and Bloch, Bertrand, 4,642,264, Cl. 428-367.000.
Tkatchenko, Igor; Jaouhari, Rabih; Bonnet, Michel; Dawkins, Gordon; and Lecolier, Serge, 4,709,087, Cl. 560-339.000.

Societe Nationale d'Etude et de Construction de Meteur d'Aviation-"S.N.E.C.M.A." : *See*—
Mangenet, Gerard Y.; Perruc, Jean; and Vaerman, Jean F., 4,669,104, Cl. 378-58.000.
Puillet, Raymond, 4,656,827, Cl. 60-39.281.

Societe Nationale d'Etude et de Construction de Moteur d'Aviation S.N.E.C.M.A. : *See*—
Allaria, Alain P.; and Druet, Jacques G., 4,651,428, Cl. 33-126.70R.
Batt, Andre; and Delabie, Jacques, J. A., 4,640,980, Cl. 174-36.000.
Bouiller, Jean G.; and Jourdain, Gerard E. A., 4,679,982, Cl. 415-145.000.
Camboulives, Andre A. M. L., 4,641,783, Cl. 239-265.390.
Debeneix, Pierre; and Tournere, Marcel J., 4,638,631, Cl. 60-226.300.
Kervistin, Robert; Lefebvre, Philippe J.; and Teissier, Alain F., 4,662,821, Cl. 415-170.00R.
Lardellier, Alain M. J., 4,646,810, Cl. 164-98.000.
Lardellier, Alain M. J., 4,648,795, Cl. 415-196.000.
Mandet, Gerard M. F.; and Mouchel, Jacques H., 4,664,594, Cl. 415-148.000.
Morbioli, Rene J.; and Ney, Jean C., 4,640,768, Cl. 209-37.000.
Naud, Henry, 4,683,717, Cl. 60-226.100.

Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. *See*—
Bouiller, Jean G.; and Soligny, Marcel R., 4,705,454, Cl. 415-197.000.
Fournes, Jean-Paul; Lesgourgues, Jacques; and Martinou, Robert, 4,655,383, Cl. 228-119.000.
Imbault, Jean-Francois R.; Mestre, Roland R.; Miraucourt, Carmen; and Ritt, Remy P. C., 4,676,715, Cl. 415-116.000.

Societe Nationale D'Etude et de Construction de Moteurs D'Aviation "S.N.E.C.M.A.". *See*—
Barbier, Gerard Y. G.; Leboure, Gerald J. P. B.; Desaulty, Michel A.-A.; Martinez, Rodolphe; and Perigne, Jerome, 4,696,157, Cl. 60-39.230.
d'Agostino, Guy; Dhainaut, Andre ; Kettler, Daniel G. A.; and Leclerc, Henry R., 4,681,327, Cl. 277-29.000.
Fredholm, Allan; Davidson, James H.; Khan, Tasadduq; and Theret, Jean-Mare C. F., 4,639,280, Cl. 148-404.000.
Garrec, Jean, 4,660,796, Cl. 248-544.000.
Gely, Jean-Marie L.; Goutines, Marius J.; and Meauze, Geordes, 4,712,980, Cl. 416-224.000.
Holz, Robert G.; and Vercherin, Denis J. N., 4,667,532, Cl. 174-573.00R.
Jourdain, Gerard E. A.; and Soligny, Marcel R., 4,674,951, Cl. 415-145.000.
Karadimas, Georges, 4,705,452, Cl. 415-115.000.
Kervistin, Robert, 4,668,163, Cl. 415-116.000.
Lardellier, Alain M. J., 4,696,619, Cl. 415-138.000.
Martinou, Robert; and Ruimi, Michel, 4,707,191, Cl. 134-3.000.
Naudet, Jacky; and Stenneler, Jacques M. P., 4,706,354, Cl. 29-156.80R.

Societe Nationale d'Etude et de Construction de Moteurs D'Aviation (S.N.E.C.M.A.): *See*—
Lardellier, Alain M. J., 4,714,404, Cl. 415-127.000.

Societe Nationale d'Exploitation Industrielle des Tabacs et Allumettes: *See*—
Buisson, Claude; and Delafoy, Jean-Alain, 4,708,237, Cl. 198-726.000.
Cholet, Georges, 4,651,557, Cl. 73-38.000.

Societe Nationale Elf Aquitaine: *See*—
Armand, Michel; Chabagno, Jean-Michel; Ricoux, Philippe; Vassort, Guy; Gauthier, Michel; Brochu, Fernand; and Rigaud, Philippe, 4,683,181, Cl. 429-192.000.
Bader, Jean-Marc, 4,634,371, Cl. 431-116.000.
Basset, Jean M.; Leconte, Michel; Ollivier, Jean; and Quignard, Francoise, 4,654,462, Cl. 585-646.000.
Basset, Jean M. M.; Leconte, Michel; Ollivier, Jean; and Quignard, Francoise, 4,639,429, Cl. 502-117.000.
Belanger, Andre; and Robitaille, Michel, 4,652,506, Cl. 429-192.000.
Belouet, Christian, 4,695,480, Cl. 437-225.000.
DeJaeger, Roger; Pagniez, Guy; and Potin, Philippe, 4,693,876, Cl. 423-300.000.
Devos, Andre ; Gourlia, Jean P.; and Paradowski, Henri, 4,664,785, Cl. 208-354.000.
Finck, Jean-Daniel; and Goma, Gerard, 4,675,294, Cl. 435-167.000.
Gauthier, Michel; and Fauteux, Denis, 4,690,840, Cl. 427-436.000.
Gongora, Henri; Lalanne, Henri; and Perono, Rene, 4,645,648, Cl. 422-186.000.
Juge, Sylvain; and Legras, Yvonne, 4,694,094, Cl. 558-76.000.
Payre, Didier; Crozat, Georges; and Spinner, Bernard, 4,682,476, Cl. 62-480.000.
Vergne, Bernard, 4,708,634, Cl. 431-1.000.

Societe Nationale Elf Aquitaine (Production): *See*—
Arens, Georges; and Staron, Philippe, 4,691,306, Cl. 367-40.000.
Boulinguiez, Martine; Forquy, Christian; and Barrault, Joel, 4,665,242, Cl. 568-70.000.
Castel, Yvon; and Iato, Michel, 4,643,616, Cl. 405-191.000.
Doussiet, Roger, 4,671,100, Cl. 73-38.000.
Gongora, Henri; and Tournier-Lasserve, Jacques, 4,699,736, Cl. 260-543.00R.
Lechon, Alain; and Viard, Alain, 4,640,096, Cl. 60-547.100.
Lelong, Bernard, 4,699,886, Cl. 436-60.000.
Schawann, Jean C.; Caumont, Jean P.; and Falcimaigne, Jean, 4,646,841, Cl. 166-355.000.
Staron, Philippe; and Gros, Pierre, 4,686,653, Cl. 367-25.000.
Vannier, Serge; Garotta, Robert; Lozes, Andre; and Vidal, Jean C., 4,636,956, Cl. 364-421.000.

Societe Nationale Elf Aquitaine (Production) Tour Aquitaine: *See*—
Staron, Philippe; and Gros, Pierre, 4,670,862, Cl. 367-25.000.

Societe Nationale Industrielle et Aerospatiale: *See*—
Arnaud, Jean-Louis; and Floret, Michel, 4,677,379, Cl. 324-242.000.
Aubry, Jacques, 4,706,364, Cl. 29-458.000.
Baron, Claude, 4,708,547, Cl. 409-233.000.
Beziers, Daniel, 4,689,488, Cl. 250-492.300.
Bokalot, Jean, 4,715,562, Cl. 244-137.200.
Cahuzac, Georges J. J.; and Monget, Francois J. R., 4,656,703, Cl. 28-100.000.
Chareire, Jean-Louis, 4,650,486, Cl. 623-3.000.
Darrieux, Jean-Louis, 4,710,412, Cl. 428-36.000.
de Guelis, Hubert V.; and Doute, Pascal, 4,696,496, Cl. 285-137.100.
Godard, Jean-Henri; Ometz, Pierre; and Labrador, Jacques, 4,647,162, Cl. 350-574.000.
Guillot, Jean; Raynaud, Jacques; Maree, Michel; Vaillant, Robert; and Ansaldi, Jean, 4,645,139, Cl. 244-3.220.
Jonca, Henri V. J., 4,701,007, Cl. 350-96.100.
Lanne, Maurice; Pons, Gerard; Petit, Jacques; and Pauly, Francis, 4,663,658, Cl. 358-101.000.
Leman, Jean-Luc; and Suzzi, Robert J., 4,652,210, Cl. 416-140.000.
Matifas, Rene, 4,642,004, Cl. 409-136.000.

Michaud-Soret, Jean A., 4,659,056, Cl. 249-78.000.
Mouille, Rene L.; Declerco, Marc; Jalaguier, Jean-Pierre; and Jaugey, Bernard, 4,639,284, Cl. 156-213.000.
Perin, Robert; Jourdan, Pierre; and Pauly, Bernard, 4,637,573, Cl. 244-54.000.
Pineau, Didier, 4,670,048, Cl. 75-10.'90.
Pineau, Didier, 4,698,255, Cl. 428-215.000.
Plissonneau, Bernard P.; and Poggi, Rene J., 4,646,929, Cl. 220-19.000.
Sarrat, Tolland; and Verges, Jose, 4676,102, Cl. 73-334.000.
Toulmay, Francois V., 4,662,174, Cl. 60-264.000.

Societe Nouvelle Baele Gangloff: *See*—
Braymand, Robert, 4,690,270, Cl. 198-774.000.
Braymand, Robert, 4,704,958, Cl. 99-470.000.

Societe Nouvelle des Ateliers et Chantiers du Havre: *See*—
Berne, Jean; and Livet, Georges, 4,659,903, Cl. 219-125.110.

Societe Nouvelle Rockall France S.A.: *See*—
Landrevie, Jacques, 4,715,828, Cl. 439-660.000.
Oudeletie, Gilles, 4,635,389, Cl. 40-331.000.

Societe Nouvelle Transfix: *See*—
Beisser, Jean-Claude, 4,638,554, Cl. 29-605.000.
Beisser, Jean-Claude, 4,651,412, Cl. 29-605.000.

Societe Paris-Rhone: *See*—
Mazzorana, Alfred B.; and Froment, Francis, 4,649,285, Cl. 290-48.000.

Societe pour les Transports de l'Industrie Nucleaire Transnucleaire: *See*—
Foussard, Jean-Francois J. A., 4,671921, Cl. 376-261.000.

Societe pour l'Etude et la Fabrication de Circuits Integres Speciaux E.F.C.I.S.: *See*—
Baudrant, Annie; and Marty, Michel 4,714,951, Cl. 357-67.000.
Borel, Joseph, 4,679,309, Cl. 29-576.80W.
Picco, Andre , 4,706,209, Cl. 364-745.000.
Tallaron, Louis, 4,651,036, Cl. 307-571.000.
Zangara, Louis, 4,703,200, Cl. 307-279.000.

Societe Prolabo: *See*—
Commarmot, Roger; Didenot, Dominique; and Gardais, Jean-Francois, 4,681,740, Cl. 422-78.000.
Commarmot, Roger; Didenot, Dominique; and Gardais, Jean-Francois, 4,693,867, Cl. 422-64.000.

Societe Setem: *See*—
Tripoteau, Jean, 4,674,623, Cl. 198-549.000.

Societe Sogefina, Societe de Gestion Financiere Armoricaine (Societe Anonyme): *See*—
Herriau, Paul, 4,646,939, Cl. 221-211.000.

Societe Syspro: *See*—
Bancon, Georges R., 4,636,135, Cl. 414-730.000.

Societe Vynex SA: *See*—
Dechirot, Jean-Pierre, 4,660,723, Cl. 206-493.000.

Societe Xeram: *See*—
Filhol, Pierre, 4,668,644, Cl. 501-119.000.
Taverdet, Jean C., 4,680,673, Cl. 361-385.000.

Sockel, Karl H.: *See*—
Weber, Wilhelm; Sockel, Karl H.; Achtenberg, Theo; and Sattlegger, Hans, 4,705,826, Cl. 524-860.000.

Sockwell, C. Leon: *See*—
Koenig, Richard F.; Klopfenstein, Albert; and Sockwell, C. Leon, 4,653,796, Cl. 296-35.100.

Sockol, Sidney I., to Rockwell International Corporation. Silicon vacuum electron devices. 4,683,399, 7-28-87, Cl. 313-537.000.

Socolowski, Norbert J., to Fry Metals, Inc. Solder preform and methods employing the same. 4,709,849, 12-1-87, Cl. 228-246.000.

Soda, Takashi: *See*—
Fukuda, Tomeichiro; Soda, Takashi; Furukawa, Ikuo; Hayashi, Takushi; Kumata, Fujio; and Nagano, Susumu, 4,662,835, Cl. 425-145.000.

Soda, Yasunari; Mochiji, Kozo; Kimura, Takeshi; and Obayashyi, Hidehito, to Hitachi, Ltd. Linearly polarized X-ray patterning process. 4,701,940, 10-20-87, Cl. 378-34.000.

Soda, Yutaka; Imamura, Hideko; Uchida, Hiroyuki; and Sekiya, Tetsuo, to Sony Corporation. Compact multiple magnetic head apparatus. 4,713,710, 12-15-87, Cl. 360-121.000.

Soda, Yutaka: *See*—
Imakoshi, Shigeyoshi; Soda, Yutaka; Suyama, Hideo; and Iida, Yasuhiro, 4,679,107, Cl. 360-113.000.
Imakoshi, Shigeyoshi; Soda, Yutaka; and Suyama, Hideo, 4,695,908, Cl. 360-119.000.
Imakoshi, Shigeyoshi; Suyama, Hideo; Soda, Yutaka; Fukuyama, Munekatsu; and Iida, Yasuhiro, 4,703,378, Cl. 360-113.000.
Suyama, Hideo; Imakoshi, Shigeyoshi; Soda, Yutaka; Fuse, Takeyuki; Abe, Iwao; and Wakabayashi, Noboru, 4,673,999, Cl. 360-125.000.
Wakabayashi, Nobore; Akiyama, Katsuhiko; Soda, Yutaka; and Uchida, Hiroyuki, 4,642,716, Cl. 360-104.000.

SodaMaster Company of America, The: *See*—
Brandon, Howard R., Jr.; Ball, Dean M.; and Guest, Joanathan D., 4,660,740, Cl. 222-1.000.

Sodd, Lal C., to Motorola, Inc. Memory input buffer with hysteresis. 4,706,218, 11-10-87, Cl. 365-189.000.

Sodeco-Sais AG: *See*—
Boillat, Pierre, 4,672,282, Cl. 318-696.000.
Boillat, Pierre, 4,673,855, Cl. 318-696.000.
Boillat, Pierre, 4,683,409, Cl. 318-696.000.

Sodeikat, Dieter, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method and apparatus for deriving an off-course signal for an orbiting earth satellite by means of an earth-horizon sensor. 4,667,104, 5-19-87, Cl. 250-338.000.

Sodeikat, Dieter, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method of processing the output signals of an optical earth-horizon sensor. 4,672,205, 6-9-87, Cl. 250-338.000.

Sodeikat, Dieter, to Messerschmitt-Bolkow-Blohm GmbH. Mechanical vibrator. 4,680,968, 7-21-87, Cl. 73-651.000.

Sodeikat, Dieter, to Messerschmitt-Bolkow-Blohm GmbH. Method and apparatus for processing the output signals of an optical earth-horizon sensor operating in the infrared range of an orbiting earth satellite. 4,684,804, 8-4-87, Cl. 250-338.000.

Sodeno, Toshiaki; Yoshieda, Keiichi; and Honmoto, Syuichi, to Yoshida Kogyo K. K. Apparatus for finishing slide fastener chain with reinforcing strip. 4,641,424, 2-10-87, Cl. 29-766.000.

Sodeno, Toshiaki: *See*—
Yoshieda, Keiichi; Sodeno, Toshiaki; and Honmoto, Syuichi, 4,633,580, Cl. 29-767.000.
Yoshieda, Keiichi; Sodeno, Toshiaki; and Honmoto, Syuichi, 4,655,662, Cl. 414-14.000.

Sodeoka, Mikiko: *See*—
Shibasaki, Masakatsu; Sodeoka, Mikiko; and Ogawa, Yuji, 4,644,068, Cl. 549-214.000.
Shibasaki, Masakatsu; Mase, Toshiaki; Sodeoka, Mikiko; and Ogawa, Yuji, 4,681,951, Cl. 549-214.000.
Shibasaki, Masakatsu; Sodeoka, Mikiko; Ogawa, Yuji; Mase, Toshiaki; Ishibashi, Akira; Horii, Daijiro; Kanayama, Toshiji; Iseki, Katsuhiko; Shinoda, Masaki; Ishiyama, Chiyoko; and Hayashi, Yoshio, 4,699,921, Cl. 514-530.000.

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Soderberg, John H.; and Duwel, Edward C., to Pitney Bowes Inc. Controlling firmware branch points in an electronic postage meter. 4,636,975, 1-13-87, Cl. 364-900.000.

Soderberg, John H.: *See*—
Jones, Howell A.; Soderberg, John H.; Eckert, Alton B.; and Nambudiri, Easwaran C. N., 4,635,204, Cl. 364-464.000.

Soderberg, Paul B., to Soderberg Research & Development, Inc. Tubing drain valve useful with heavy, sand-bearing oil. 4,637,471, 1-20-87, Cl. 166-373.000.

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Soderberg, Paul B., 4,637,471, Cl. 166-373.000.
Soderberg, Paul B., 4,645,007, Cl. 166-374.000.
Soderberg, Paul B., 4,681,167, Cl. 166-371.000.

Soderberg, Richard, to Dr. Ing. H.c.F. Porsche Aktiengesellschaft. Passenger motor vehicle rear section. 4,653,795, 3-31-87, Cl. 296-1.00S.

Soderena, Soini: *See*—
Partanen, Paavo; and Soderena, Soini, 4,687,110, Cl. 212-147.000.

Sodergard, Bengt, to International Standard Electric Corporation. Centrifugal pump. 4,640,666, 2-3-87, Cl. 415-121.00B.

Soderholm, Jan; and Cedraeus, Hugo. Package for mik samples. 4,679,688, 7-14-87, Cl. 206-204.000.

Soderlind, Jan: *See*—
Peterson, Lars-Eric; and Soderlind, Jan, 4,682,372, Cl. 2-51.000.

Soderlund, Bjorn, to Allman Byggnadsservice AB ABS. Arrangement in containers intended to hold pumpable substances and provided with a pump herefor. 4,636,083, 1-13-87, Cl. 366-43.000.

Soderlund, Bjorn: *See*—
Gauffin, Ulf; and Soderlund, Bjorn, 4,634,347, Cl. 417-45.000.

Soderlund, Ernest E., to GTE Communication Systems Corporation. Universal test circuit for integrated circuit packages. 4,684,884, 8-4-87, Cl. 324-73.00R.

Soderquist, Mark E.; Muthyala, Ramaiah; Larson, William A.; and Doty, Peter A., to Dow Chemical Company, The. Phosphonium salt-containing corrosion inhibitors for high density brines. 4,640,786, 2-3-87, Cl. 252-8.551.

Soderstrom, Edwin D., III; and Davis, Terrence A., to Phillips Petroleum Company. Reid vapor pressure determination. 4,667,508, 5-26-87, Cl. 73-64.200.

Soderstrom, Sigvard: *See*—
Oldfelt, Sven; and Soderstrom, Sigvard, 4,713,847, Cl. 4-316.000.

Soderstrom, Sven E.: *See*—
Lofgren, Folke; and Soderstrom, Sven E., 4,643,564, Cl. 356-5.000.

Soderwall, Marja-Liisa: *See*—
Toivola, Reijo J.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Soderwall, Marja-Liisa; Kangas, Lauri V. M.; Blanco, Guillermo L.; and Sunduiqst, Hannu K., 4,696,949, Cl. 514-648.000.

Sodick Co., Ltd.: *See*—
Furukawa, Toshihiko, 4,697,059, Cl. 219-69.00W.

Sodra Skogsagarna AB—Monsteras Bruk: *See*—
Andersson, Susanne; Gustafsson, Jan-Erik; Herngren, Torbjorn; Carlsson, Staffan; and Hage, Gunnar, 4,683,841, Cl. 122-22.000.

Soechtig, Wolfgang; Wagner, Peter; and Korzeczek, Karl-Ludwig, to Krauss-Maffei A.G. Piston metering apparatus of a reaction injection molding machine. 4,643,581, 2-17-87, Cl. 366-76.000.

Soeda, Eiichi: *See*—
Nasu, Hisanori; Suzuki, Satoru; Yoshida, Hiroaki; Fukuda, Tomeichi; and Soeda, Eiichi, 4,706,192, Cl. 364-413.000.

Soeda, Kazuhiko; Mori, Masakazu; Nishikawa, Tsutomu; and Tomimori, Kiyoshi, to Fujitsu Limited. Method and apparatus for

measuring chromatic dispersion coefficient. 4,710,022, 12-1-87, Cl. 356-73.100.
Soeda, Mahito: *See—*
Okazaki, Hiroshi; Soeda, Mahito; Wada, Hiromu; and Onishi, Kiyotaka, 4,656,279, Cl. 546-150.000.
Soeder, Edmund J.: *See—*
Ward, Thomas H.; Costanzo, Phillip A.; Pietrasz, Vincent; and Soeder, Edmund J., 4,642,516, Cl. 313-481.000.
Ward, Thomas H.; Costanzo, Phillip A.; Pietrasz, Vincent; and Soeder, Edmund J., 4,710,344, Cl. 419-8.000.
Soeffker, Eldred E.; and Rukavina, Lou. Modular carpet cleaning apparatus. 4,686,735, 8-18-87, Cl. 15-320.000.
Soehring, Gerhard: *See—*
Manzke, Klaus; Weis, Hans-Joachim; and Soehring, Gerhard, 4,660,120, Cl. 360-137.000.
Soejima, Hidenobu: *See—*
Akiba, Yasuhiro; Namba, Masato; Kikuchi, Seiji; and Soejima, Hidenobu, 4,714,850, Cl. 310-49.00R.
Soejima, Shigeo: *See—*
Mase, Syunzo; and Soejima, Shigeo, 4,647,364, Cl. 204-427.000.
Mase, Syunzo; and Soejima, Shigeo, 4,655,901, Cl. 204-426.000.
Mase, Syunzo; and Soejima, Shigeo, 4,657,659, Cl. 204-410.000.
Mase, Syunzo; and Soejima, Shigeo, 4,670,128, Cl. 204-427.000.
Soelter, Michael, to MBB GmbH. Impact attenuation. 4,645,142, 2-24-87, Cl. 244-100.00A.
Soelter, Michael: *See—*
Hoeppner, Hans-Jochen; Kraemer, Ulrich; and Soelter, Michael, 4,659,038, Cl. 244-49.000.
Soemers, Hermanus M. J. R.: *See—*
Koster, Marinus P.; Soemers, Hermanus M. J. R.; and Dona, Marinus J. J., 4,713,977, Cl. 74-191.000.
Soens, Lode J., to N.V. Bekaert S.A. Plastic article containing electrically conductive fibers. 4,664,971, 5-12-87, Cl. 428-288.000.
Soerens, Dave A., to Kimberly-Clark Corporation. Creping adhesives containing polyvinyl alcohol and thermoplastic polyamide resins derived from poly(oxyethylene) diamine. 4,684,439, 8-4-87, Cl. 162-111.000.
Soeters, Raymond A., Jr., to Eaton Corporation. Supercharger assembly and rotor phasing fixture and method of partially assembling. 4,638,570, 1-27-87, Cl. 33-562.000.
Soeters, Raymond A., Jr., to Eaton Corporation. Guide for roller cam follower. 4,704,995, 11-10-87, Cl. 123-90.500.
Sofec, Inc.: *See—*
Ethridge, Charles O.; and Pedersen, Kristen I., 4,647,077, Cl. 285-98.000.
Pedersen, Kristen I., 4,662,386, Cl. 137-236.100.
Pedersen, Kristen I., 4,665,856, Cl. 114-230.000.
Soffer, Abraham; Koresh, Jacob E.; and Saggy, Shlomo. Separation device. 4,685,940, 8-11-87, Cl. 55-158.000.
Soffer, Bernard H.; Efron, Uzi; and Marom, Emanuel, to Hughes Aircraft Company. Numerical division of two arrays by optical processing. 4,686,647, 8-11-87, Cl. 364-850.000.
Soffer, Bernard H.: *See—*
Efron, Uzi; and Soffer, Bernard H., 4,679,910, Cl. 350-335.000.
Sofianek, Jay K.; Nally, John F.; Rush, James H.; Fuss, Robert L.; Williams, John E.; and Ruckey, Allan M., to General Motors Corporation. Electromagnetic fuel injector with orifice director plate. 4,646,974, 3-3-87, Cl. 239-585.000.
Sofianek, Joseph C.; Tognella, Ugo R.; and Bonnett, Richard J., to General Electric Company. Shield assembly of a vacuum interrupter. 4,665,287, 5-12-87, Cl. 200-144.00B.
Sofranko, John A., to Atlantic Richfield Company. Alkali promoted manganese oxide compositions containing barium carbonate. 4,654,459, 3-31-87, Cl. 585-500.000.
Sofranko, John A.: *See—*
Jones, C. Andrew; and Sofranko, John A., 4,634,802, Cl. 585-656.000.
Jones, C. Andrew; and Sofranko, John A., 4,650,781, Cl. 502-241.000.
Jones, C. Andrew; Leonard, John J.; and Sofranko, John A., 4,665,260, Cl. 585-500.000.
Withers, Howard P., Jr.; Jones, C. Andrew; Leonard, John J.; and Sofranko, John A., 4,634,800, Cl. 585-500.000.
Withers, Howard P., Jr.; Jones, C. Andrew; Leonard, John J.; Sofranko, John A.; and Gaffney, Anne M., 4,670,619, Cl. 585-500.000.
Soft Sheen Products, Inc.: *See—*
Bernstein, Joel E., 4,701,321, Cl. 424-60.000.
Softly, Billy J.; and Huang, An S., to Nabisco Brands, Inc. Cider vinegar flavor. 4,701,336, 10-20-87, Cl. 426-538.000.
Softy, Hugh M., to HMS Products Co. Combination electric and mechanical servo drive clutch. 4,702,363, 10-27-87, Cl. 192-150.000.
Soga, George: *See—*
Lipes, Arnold; and Soga, George, 4,706,298, Cl. 383-71.000.
Soga, Hirokazu: *See—*
Terano, Minoru; Soga, Hirokazu; Inoue, Masuo; and Miyoshi, Katsuyoshi, 4,686,200, Cl. 502-112.000.
Soga, Junko: *See—*
Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, 4,639,339, Cl. 260-513.600.
Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, 4,673,688, Cl. 514-554.000.
Soga, Kazuo: *See—*
Suzuki, Shigeo; Doi, Yoshiharu; and Soga, Kazuo, 4,695,557, Cl. 502-103.000.
Soga, Shigeyuki: *See—*
Miyauchi, Shizuya; Suzuki, Takashi; Minobe, Shinichi; and Soga, Shigeyuki, 4,656,780, Cl. 49-348.000.
Soga, Tasao: *See—*
Kurihara, Yasutoshi; Soga, Tasao; Hachino, Hiroaki; Mizuta, Kenji; Okamura, Masahiro; Kobayashi, Fumiyuki; and Daikoku, Takahiro, 4,649,990, Cl. 165-80.400.
Soga, Yoshinobu: *See—*
Sawada, Daisaku; Sugaya, Masami; Imai, Ryuji; and Soga, Yoshinobu, 4,642,069, Cl. 474-28.000.
Sawada, Daisaku; Sugaya, Masami; Soga, Yoshinobu; and Imai, Ryuji, 4,685,357, Cl. 74-867.000.
Sogabe, Akira: *See—*
Kimizuka, Norio; Sogabe, Akira; and Abo, Mituyosi, 4,638,421, Cl. 364-160.000.
Sogabe, Ichita; Murata, Shuuji; and Yokoya, Yuji, to Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Combined torque motor and rotary flow control valve unit. 4,647,010, 3-3-87, Cl. 251-129.120.
Sogabe, Ichita; Murata, Syuuji; and Yokoya, Yuji, to Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Rotary driving device used for rotary actuator. 4,691,135, 9-1-87, Cl. 310-254.000.
Sogabe, Masatoyo: *See—*
Amemiya, Yoichi; Sogabe, Masatoyo; and Tagami, Kiyoshi, 4,697,114, Cl. 310-156.000.
Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, 4,661,736, Cl. 310-156.000.
Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Sugahara, Katsuya, 4,663,550, Cl. 310-93.000.
Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Iwamatsu, Noboru, 4,700,097, Cl. 310-162.000.
Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Kunagai, Kazushi, 4,714,852, Cl. 310-156.000.
Sogah, Dotsevi Y.: *See—*
Hertler, Walter R.; and Sogah, Dotsevi Y., 4,656,233, Cl. 526-190.000.
Sogame, Masakazu, to Minolta Camera Kabushiki Kaisha. Electrophotographic copying apparatus. 4,673,282, 6-16-87, Cl. 355-14.00E.
Sogawa, Akira; Inokuchi, Kiyoshi; Sugimachi, Keizo; Kai, Hidenobu; Hotta, Tetsuya; and Kawai, Yoshio, to Kureha Kagaku Kogyo Kabushiki Kaisha. Endotract antenna device for hyperthermia. 4,662,383, 5-5-87, Cl. 128-784.000.
Sogge, Dale R.: *See—*
Gonsalves, Edward M.; Sogge, Dale R.; and Charboneau, Thomas J., 4,662,232, Cl. 73-866.500.
Sogge, John, to FMC Corporation. Decking support means. 4,712,340, 12-15-87, Cl. 52-177.000.
Sogli, Loris: *See—*
Ungarelli, Raffaele; Beretta, Maurizio A.; and Sogli, Loris, 4,675,462, Cl. 585-429.000.
Sogo, Kiyomi: *See—*
Izutsu, Yasuo; Sogo, Kiyomi; Okamoto, Shizuo; and Tanaka, Terukazu, 4,650,666, Cl. 424-479.000.
Sogo, Toshiyuki; and Ide, Fumito, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,679,927, 7-14-87, Cl. 355-3.00R.
Sogo, Yoshitaka; Fukushima, Masami; and Kuzuya, Tetsuro, to Toyota Jidosha Kogyo Kabushiki Kaisha. Gear-teeth protector in change-speed gearing units. 4,683,771, 8-4-87, Cl. 74-467.000.
Sohajda, Attila: *See—*
Bernath, Gabor; Kobor, Jeno; Fulop, Ferenc; Motika, Gabor; Sohajda, Attila; Ezer, Elemer; Hajos, Gyorgy; Palosi, Eva; Denes, Laszlo; and Szporny, Laszlo, 4,654,351, Cl. 514-307.000.
Sohda, Yoshio: *See—*
Uemura, Seiichi; Hirose, Takao; Sohda, Yoshio; Sakamoto, Takayoshi; and Katoh, Kenji, 4,656,022, Cl. 423-447.200.
Sohigian, M. D.: *See—*
Richter, Kenneth A.; Sohigian, M. D.; and Falck, John C., 4,647,845, Cl. 324-57.00R.
Sohio Commercial Development Co.: *See—*
Basol, Bulent M., 4,680,611, Cl. 357-71.000.
Sohlberg, Jan-Henrik; and Olsson, Seth I. S., to Broderna Solbergs Forsaljnings Aktiebolag. Method and a device for cutting end disks for the packing of paper rolls. 4,633,650, 1-6-87, Cl. 53-415.000.
Sohlberg, Karl: *See—*
Porsander, Thord; Sohlberg, Karl; and Jonson, Jan, 4,670,641, Cl. 219-125.100.
Sohma, Ken-ichi; Arashi, Norio; Azuhata, Shigeru; Narato, Kiyoshi; Inada, Tooru; Kobayashi, Hironobu; Ohtsuka, Keizou; and Hishinuma, Yukio, to Hitachi, Ltd.; and Babcock-Hitachi Kabushiki Kaisha. Furnace system. 4,653,998, 3-31-87, Cl. 431-79.000.
Sohmer, Paul R.: *See—*
Mielke, C. Harold; Scannon, Patrick J.; Sohmer, Paul R.; and Klock, John C., 4,664,913, Cl. 424-101.000.
Sohn, Daniel D.: *See—*
Miyano, Masateru; Shone, Robert L.; and Sohn, Daniel D., 4,665,203, Cl. 549-402.000.
Sohn, Sang H., to Gold Star Co., Ltd. Acoustic optical light modulator. 4,659,184, 4-21-87, Cl. 350-358.000.
Sohn, Sang H., to Gold Star Co., Ltd. Plasma display device. 4,703,225, 10-27-87, Cl. 313-587.000.
Sohval, A. Robert; and Freundlich, David, to Elscint Ltd. Plural source computerized tomography device with improved resolution. 4,637,040, 1-13-87, Cl. 378-9.000.
Sohval, A. Robert, to Elscint, Inc. X-ray tube having an adjustable focal spot. 4,689,809, 8-25-87, Cl. 378-136.000.
Sohwa Laminate Printing Co., Ltd.: *See—*
Goto, Hideo, 4,647,714, Cl. 174-36.000.

Soiman, Mihai: *See*—
Ionescu, Dragos; and Soiman, Mihai, 4,697,570, Cl. 123-602.000.

Soji, Kazuo; and Nagano, Hiroyuki, to Matsushita Electric Industrial Co., Ltd. Method for controlling an articulated robot. 4,705,999, 11-10-87, Cl. 318-568.000.

Sojka, Bernward: *See*—
Trasch, Heinz-Freidrich; Rothe, Anselm; Sojka, Bernward; Werner, Wolfgang; and Wielinger, Hans, 4,638,023, Cl. 524-21.000.

Sok, Brian A.: *See*—
Nickola, Richard A.; Sok, Brian A.; and Agarwal, Shashi B., 4,678,717, Cl. 428-553.000.

Sokalski, Robert G.: *See*—
Glennon, Thomas F.; Creed, Brian T.; Walsh, William J.; and Sokalski, Robert G., 4,671,116, Cl. 73-728.000.

Sokalski, Stanley M., to Detrex Corporation. 2,2-bis (4 hydroxyphenyl) alkyl poly derivatives for use in after-treatment of conversion coated metals. 4,714,752, 12-22-87, Cl. 528-153.000.

Sokawa, Takuji: *See*—
Hyodo, Masakatsu; Kusumoto, Koji; and Sokawa, Takuji, 4,686,126, Cl. 428-36.000.

Sokkisha Co., Ltd.: *See*—
Indo, Kenji; and Ishimaru, Yoshihiko, 4,663,853, Cl. 33-125.00C.
Indo, Kenji, 4,672,317, Cl. 324-208.000.

Sokol, Edward F., to S-V Development Ltd. Moving visual display apparatus. 4,689,604, 8-25-87, Cl. 340-755.000.

Sokol, Gary L.; Steen, Michael J.; and Stephen, Douglas A., to International Business Machines Corporation. Cartridge handling device and method. 4,688,123, 8-18-87, Cl. 360-97.000.

Sokol, Michael: *See*—
Coville, William E.; Grossman, Hyman; and Sokol, Michael, 4,695,430, Cl. 422-65.000.

Sokol, Steve, to Detroit Bracket Co., Inc. Bracket for supporting a radar detector or like device. 4,648,572, 3-10-87, Cl. 248-206.200.

Sokola, Raymond L.: *See*—
Green, Steven R.; De Muro, David M.; and Sokola, Raymond L., 4,692,726, Cl. 333-206.000.
Moutrie, Michael F.; Sokola, Raymond L.; and Gordon, Philip J., 4,716,391, Cl. 333-206.000.

Sokolik, Edmund L.; and Lum, Francis, to Irwin Magnetic Systems, Inc. Method and apparatus for positioning transducers by digital conversion of analog-type signals. 4,646,175, 2-24-87, Cl. 360-78.000.

Sokolik, Edmund L.: *See*—
Irwin, Samuel N.; Lum, Francis; Bolt, Michael L.; Henke, Steven E.; Sokolik, Edmund L.; and Chambors, John M., 4,647,994, Cl. 360-85.000.

Sokolov, Vladimir; and Beyer, James B., to Honeywell Inc. Monolithic microwave integrated circuit broadband mixer. 4,675,911, 6-23-87, Cl. 455-325.000.

Sokolovsky, Paul J. Singulating apparatus for a semiautomatic firearm. 4,646,619, 3-3-87, Cl. 89-145.000.

Sokolovsky, Paul J., to Advanced Micro Devices, Inc. Tape attach machine. 4,683,023, 7-28-87, Cl. 156-518.000.

Sokolovsky, Paul J., to Advanced Micro Devices, Inc. Controlled deformation alignment method and apparatus. 4,691,747, 9-8-87, Cl. 140-147.000.

Sola Basic Industries, Inc.: *See*—
Ben-Dov, Oded, 4,654,962, Cl. 29-600.000.

Sola International Holdings Ltd.: *See*—
Barkan, Eric F.; and Sklar, David H., 4,676,610, Cl. 351-169.000.

Sola, Regine: *See*—
Commeyras, Auguste; Taillades, Jacques; Brugidou, Jean; Mion, Louis; Sola, Regine; Pascal, Robert; Lasperas, Monique; and Rousset, Alain, 4,677,224, Cl. 562-557.000.

Sola U.S.A. Inc.: *See*—
Bauman, Robert E.; Chandrasekaran, S. Kumar; Lin, Shaow B.; Bowman, Lyle M.; and Harvey, Thomas B., III, 4,666,249, Cl. 351-160.00H.
Harvey, Thomas B., III, 4,711,943, Cl. 526-279.000.
Lin, Shaow B.; Bowman, Lyle M.; Chandrasekaran, S. Kumar; and Harvey, Thomas B., III, 4,687,816, Cl. 525-279.000.
Petty, Dean M.; and Sage, Howard M., 4,686,798, Cl. 51-216.0LP

Solana, Inc.: *See*—
Nielsen, Robert, 4,660,561, Cl. 128-376.000.

Solano, Mike L. Bicycle shoe. 4,662,090, 5-5-87, Cl. 36-131.000.

Solano, William E.; Docherty, James P.; and Stubenbort, Joseph W., to Salem Furnace Co. Method and apparatus for calcining material containing volatile constituents. 4,637,795, 1-20-87, Cl. 432-138.000.

Solano, William E.: *See*—
Johnson, Beverly E.; and Solano, William E., 4,669,977, Cl. 432-139.000.

Solar Development, Inc.: *See*—
Farneti, Michael P., 4,699,073, Cl. 114-102.000.

Solar Refining, Inc.: *See*—
Alexander, William C., 4,716,515, Cl. 363-138.000.

Solar Turbines Incorporated: *See*—
Cederwall, Philip J.; and Glezer, Boris, 4,635,332, Cl. 29-156.80R.
Cederwall, Philip J.; Evans, David M.; Glezer, Boris; and Hensley, John J., 4,668,162, Cl. 415-115.000.
Darragh, Charles T.; and Parsons, Edward L., Jr., 4,697,633, Cl. 165-51.000.
Metcalfe, Arthur G.; and Ward, Michael E., 4,642,864, Cl. 29-157.30R.

Solara, Inc.: *See*—
Boynton, Sharon L., 4,655,195, Cl. 126-429.000.

Solarchem Research, Division of Brolor Investments, Ltd.: *See*—
Stevens, Richard D. S., 4,686,023, Cl. 204-157.670.

Solarcraft, Inc.: *See*—
Hirsch, Gerald B.; Volk, Stanley; Cirrito, William; and Brano, Dale, 4,680,815, Cl. 2-171.300.

Solarek, Daniel B.; Jobe, Patrick G.; and Tessler, Martin M., to National Starch and Chemical Corporation. Polysaccharide derivatives containing aldehyde groups, their preparation from the corresponding acetals and use as paper additives. 4,675,394, 6-23-87, Cl. 536-43.000.

Solarek, Daniel B.; Jobe, Patrick G.; Tessler, Martin M.; Billmers, Robert L.; Lamb, Diane J.; and Tsai, John J., to National Starch and Chemical Corporation. Polysaccharide derivatives containing aldehyde groups, their preparation from the corresponding acetals and use as paper additives. 4,703,116, 10-27-87, Cl. 536-104.000.

Solares, Bertha. Fishing ball. 4,672,767, 6-16-87, Cl. 43-41.200.

Solarex Corporation: *See*—
Catalano, Anthony W.; D'Aiello, Robert V.; Brewer, John A.; and Podlesny, Richard J., 4,667,058, Cl. 136-244.000.
Dickson, Charles R.; and Carlson, David E., 4,690,830, Cl. 427-38.000.

Solari, Rodolfo B.: *See*—
Rahbe, Georgette; Marzin, Roger; Cavicchioli, Ivan; Krasuk, Jules; and Solari, Rodolfo B., 4,676,886, Cl. 208-50.000.

Solaroli, Sergio: *See*—
Danielli, Franco; and Solaroli, Sergio, 4,680,865, Cl. 33-143.00L.

Solaronics, Inc.: *See*—
Simpson, Thomas W., 4,639,213, Cl. 431-326.000.

Solazzi, Michael C., to Chemplex Industries, Inc. Sample cup apparatus for use in x-ray spectroscopy employing selectively operated venting means. 4,698,210, 10-6-87, Cl. 422-102.000.

Solazzi, Monte J., to Chemplex Industries, Inc. Sample cup for use in X-ray spectroscopy. 4,643,033, 2-17-87, Cl. 73-864.910.

Solazzi, Monte J., to Chemplex Industries, Inc. Sample cup with a cantilever beam venting means. 4,665,759, 5-19-87, Cl. 73-864.910.

Solbach, Werner: *See*—
Bechem, Werner; Peters, Hubertus; Solbach, Werner; and Wilhard, Dietrich, 4,634,504, Cl. 204-28.000.

Solberg, Arne L.: *See*—
Meguro, Jun-Ichi; Solberg, Arne L.; Stark, William A.; and Hee, Paul K., 4,685,880, Cl. 425-416.000.

Solberg, Per; and Gronhaug, Jan, to Stord Bartz A/S. Heat exchanger, 4,660,628, 4-28-87, Cl. 165-92.000.

Solbes, Albert: *See*—
Sheppard, Douglas B.; Solbes, Albert; and Roy, Gabriel D., 4,660,478, Cl. 110-264.000.
Sheppard, Douglas B.; Solbes, Albert; Stansel, John C.; and Hill, Lance E., 4,685,404, Cl. 110-265.000.

Solc, Jitka, to Dow Chemical Company, The. Composite pigmentary particles as thermostabilizers of plastic materials. 4,677,142, 6-30-87, Cl. 523-206.000.

Solc, Jitka, to Dow Chemical Company, The. Method for preparing colloidal size particulate. 4,680,200, 7-14-87, Cl. 427-213.340.

Solco Basel AG: *See*—
Marx, Gunter H., 4,642,088, Cl. 604-4.000.

Solcz, Edward J.; Domoto, Gerald A.; and Wolf, Barry M., to Xerox Corporation. Piezoelectric optical beam deflector. 4,691,212, 9-1-87, Cl. 346-108.000.

Sold, Roland: *See*—
Schoettle, Klaus; Sold, Roland; Brinkmann, Uwe; and Wagner, Werner, 4,709,290, Cl. 360-132.000.

Soldanski, Heinz-Dieter; Holdt, Bernd-Dieter; and Meier, Ursula, to Henkel Kommanditgesellschaft auf Aktien. Carpet cleaning composition contains a cellulose powder from a hardwood source. 4,659,494, 4-21-87, Cl. 252-88.000.

Soldati, Gianluigi, to Carter-Wallace, Inc. Gelled antiperspirant compositions. 4,673,570, 6-16-87, Cl. 424-66.000.

Soled, Stuart L.; and Fiato, Rocco A., to Exxon Research and Engineering Company. Manganese-spinel catalysts in CO/H_2 olefin synthesis. 4,670,476, 6-2-87, Cl. 518-717.000.

Soled, Stuart L.: *See*—
Fiato, Rocco A.; Rice, Gary W.; Miseo, Sabato; and Soled, Stuart L., 4,687,753, Cl. 502-5.000.
Rice, Gary W.; Fiato, Rocco A.; and Soled, Stuart L., 4,659,69[illegible] Cl. 502-5.000.
Rice, Gary W.; Fiato, Rocco A.; and Soled, Stuart L., 4,668,6[illegible] Cl. 502-5.000.

Solek, Roman: *See*—
McCutcheon, Samuel; Lum, Jeffrey; Solek, Roman; Harrell, Troy; and Leman, Robert, 4,710,893, Cl. 364-900.000.

Solems S.A.: *See*—
Solomon, Ionel; Meot, Jacques; and Melignc, Patrick, 4,634,826, Cl. 219-69.00M.

Soletanche: *See*—
Aiello, Giovanni; and Hamelin, Jean-Pierre, 4,634,860, Cl. 219-231.0SE.
Barthelemy, Herve ; and Legendre, Yves, 4,682,660, Cl. 175-8[illegible]
Bollinger, Karl; and Chagnot, Philippe, 4,650,012, Cl. 175-84.00

Solex: *See*—
Martel, Bernard, 4,662,333, Cl. 123-339.000.

Solex and Regie Nationale des Uines Renault: *See*—
Micard, Guy, 4,684,104, Cl. 251-129.050.

Solex Research Corporation of Japan: *See*—
Watanabe, Morio; and Nishimura, Sanji, 4,670,230, Cl. 423-[illegible]
Watanabe, Morio; Nishimura, Sanji; and Watanabe, Noboru, 4,678,646, Cl. 422-245.000.

Solex (UK) Limited: *See*—
Pagdin, Brian C., 4,705,219, Cl. 239-397.500.

eim, John A.; and Solheim, Karsten. Golf club head cover with tachable identification tag and method of making a golf club head ver. 4,667,716, 5-26-87. Cl. 150-52.00G.
eim, John A. Throat structure for golf club bags. 4,667,820, 5-26-87, 206-315.600.
eim, Karsten. Golf ball. 4,653,758, 3-31-87, Cl. 273-232.000
eim, Karsten: *See*—
Solheim, John A.; and Solheim, Karsten, 4,667,716, Cl. 150-52.00G.
eim, Russell G. Stratified combustion engine. 4,649,872, 3-17-87, 123-79.00C.
jell, Erik, to Tandberg Data A/S. Arrangement for positioning a nsducer to at least one track of a tape-shaped recording medium. 39,796, 1-27-87, Cl. 360-77.000.
Tech, Inc.: *See*—
Hartley, Tyrus W.; and Hartley, Dwight N., 4,668,128, Cl. 405-266.000.
l State Charger Research and Development: *See*—
Hoffman, Philip A., 4,658,199, Cl. 320-21.000.
l State Scientific, Inc.: *See*—
Owens, Alexander H.; Hallacre, Mark A.; and Pan, David S., 4,646,425, Cl. 29-571.000.
l State Systems, Inc.: *See*—
Rackin, Mark H., 4,674,083, Cl. 370-67.000.
, John B.; Wittmuss, Howard D.; and Burnside, Orvin C., to niversity of Nebraska, The Board of Regents of the. Subsurface plication of chemicals. 4,683,826, 8-4-87, Cl. 111-7.000.
, Leland P., to Sperry Corporation. Dispersive SAW filter with pered transducers. 4,635,008, 1-6-87, Cl. 333-195.000.
, O. B., and Pyle, Godfrey J., to Minnesota Mining and Manufacring Company. Cushion and method. 4,679,851, 7-14-87, Cl. 7-452.000.
gny, Marcel R.: *See*—
Boullier, Jean G.; and Soligny, Marcel R., 4,705,454, Cl. 415-197.000.
Jourdain, Gerard E. A.; and Soligny, Marcel R., 4,674,951, Cl. 415-145.000.
nar, Keith F. Aeration device for assisting in aeration of material en containers. 4,662,543, 5-5-87, Cl. 222-195.000.
do Equipment Leasing Limited: *See*—
Instone, Giles A.; Rule, Michael V.; and van Riemsdijk, Ronald E., 4,674,645, Cl. 220-1.500.
, Jesse: *See*—
Lenox, Jerril C.; and Solis, Jesse, 4,672,968, Cl. 128-380.000.
s r.l.: *See*—
Gazzarrini, Vinicio, 4,649,838, Cl. 112-121.150.
Gazzarrini, Vinicio, 4,664,044, Cl. 112-121.150.
ec Limited: *See*—
Dunan, Andrew T., 4,691,843, Cl. 222-58.000.
t, Samuel G.; Light, Nathan R.; and Shaw, Jerry, to S.L.S. Incorrated. Instant bingo game verification system. 4,669,729, 6-2-87, Cl. 3-138.00A.
, David B.: *See*—
Gdaniec, Joseph M.; Sahulka, Richard J.; and Soll, David B., 4,636,948, Cl. 364-300.000.
Manfred: *See*—
Kalk, Walter; Schundehutte, Karl H.; and Soll, Manfred, 4,695,632, Cl. 544-194.000.
, Phillip J. Flexible hockey goal frame. 4,664,384, 5-12-87, Cl. 3-127.00B.
mi, Jimmie L.: *See*—
Sollami, Phillip A.; and Sollami, Jimmie L., 4,702,525, Cl. 299-79.000.
mi, Phillip A. Face seal. 4,656,925, 4-14-87, Cl. 92-125.000.
mi, Phillip A.; and Sollami, Jimmie L. Conical bit. 4,702,525, 27-87, Cl. 299-79.000.
s, John A., Jr., to Milliken Research Corporation. Pile lay measement system. 4,702,597, 10-27-87, Cl. 356-138.000.
s Holland, B.V.: *See*—
lly, Pieter J., 4,655,873, Cl. 156-502.000.
tek Limited: *See*—
Ellos, Janan E., 4,707,760, Cl. 361-90.000.
der, Otto; Flemming, Helmut; Konig, Werner; and Kleinschmit, ihard, to Daimler-Benz Aktiengesellschaft. Suspension of an axle r casing for motor vehicles. 4,699,230, 10-13-87, Cl. 180-73.100.
sberger, Nelson R., to American Telephone and Telegraph Com y AT&T Bell Laboratories. Equalizer with improved performnce. 4,695,969, 9-22-87, Cl. 364-724.000.
sberger, Nelson R.: *See*—
eland, Kenneth W.; and Sollenberger, Nelson R., 4,661,993, Cl. 455-103.000.
an, Francis G.: *See*—
Hittendorf, Gerald C.; and Sollman, Francis G., 4,644,744, Cl. 60-39.150.
r, George H.: *See*—
arta, Donald J.; and Sollner, George H., 4,659,622, Cl. 428-379.000.
t Systems, Ltd.: *See*—
ssaf, Gad; and Regev, Mordechai, 4,672,950, Cl. 126-452.000.
larikovsky, Moshe; and Doron, Benjamin, 4,652,378, Cl. 210-716.000.
aviv, Avi, 4,636,112, Cl. 405-176.000.
tilo, Moshe; and Fattom, Ali, 4,649,110, Cl. 435-68.000.
tilo, Moshe; and Fattom, Ali, 4,693,842, Cl. 252-356.000.
cs Corporation N.V.: *See*—
mith, Ian K., 4,712,380, Cl. 60-641.200.

Solo Cup Company: *See*—
Brewer, Clarence T., 4,684,036, Cl. 221-61.000.
Soloco, Inc.: *See*—
Hebert, Francis A., 4,653,595, Cl. 173-128.000.
Solomon, Allen. Adjustable keyboard stand. 4,669,691, 6-2-87, Cl. 248-165.000.
Solomon, Allen C. Lane changing signalling device. 4,684,918, 8-4-87, Cl. 340-73.000.
Solomon, Daniel M.; Kaminski, James J.; and Conn, David J., to Schering Corporation. Anti-inflammatory and anti-allergic substituted-2,3-dihydro-6-(hydroxy)pyrimido[2,1-f]-purine-4,8(1H,9H)-diones. 4,666,914, 5-19-87, Cl. 514-267.000.
Solomon, Dennis, to Altman Stage Lighting Co., Inc. Dual-axis tactile feedback light control device. 4,706,006, 11-10-87, Cl. 318-640.000.
Solomon, Donald D.; McGary, Charles W.; and Pascarella, Vincent J., to Becton, Dickinson and Company. Permanently bonded antithrombogenic polyurethane surface. 4,642,242, 2-10-87, Cl. 427-2.000.
Solomon, Donald D., to Becton, Dickinson and Company. Process for preparing antithrombogenic/antibiotic polymeric plastic materials. 4,713,402, 12-15-87, Cl. 523-112.000.
Solomon, Donald D.: *See*—
McGary, Charles W.; and Solomon, Donald D., 4,676,975, Cl. 424-423.000.
McGary, Charles W.; and Solomon, Donald D., 4,678,660, Cl. 424-25.000.
Solomon, Donald F.; Solomon, Romona L.; and Good, Charlie J., to Newport Filters, Inc. Potable water filter. 4,714,546, 12-22-87, Cl. 210-137.000.
Solomon, Elias E. Fault-tolerant control system. 4,646,065, 2-24-87, Cl. 340-511.000.
Solomon, Frank; Grun, Charles; Abrahamson, Donald W.; Stewart, James J.; and Niksa, Marilyn J., to Eltech Systems Corporation. Unitized electrode-intercell connector module. 4,687,553, 8-18-87, Cl. 204-16.000.
Solomon, Fred D. Solar powered pump assembly. 4,666,376, 5-19-87, Cl. 417-379.000.
Solomon, Ionel; Meot, Jacques; and Meligne, Patrick, to Solems S.A. Method for producing electric circuits in a thin layer, the tool to implement the method, and products obtained therefrom. 4,634,826, 1-6-87, Cl. 219-69.00M.
Solomon, Jack. Storage rack. 4,714,165, 12-22-87, Cl. 211-11.000.
Solomon, James A.: *See*—
Forbes, Richard L., II; Franzen, James J.; Solomon, James A.; and Weikel, Donald J., Jr., 4,657,370, Cl. 355-3.0BE.
Solomon, James R. Golf putter. 4,702,477, 10-27-87, Cl. 273-80.00C.
Solomon, Peter R.; Carangelo, Robert M.; and Best, Philip E., to Advanced Fuel Research, Inc. Method and apparatus for analyzing particle-containing gaseous suspensions. 4,652,755, 3-24-87, Cl. 250-341.000.
Solomon, Romona L.: *See*—
Solomon, Donald F.; Solomon, Romona L.; and Good, Charlie J., 4,714,546, Cl. 210-137.000.
Solomonides, Byron C., to Rockwell International Corporation. Programmable ejection seat system. 4,673,147, 6-16-87, Cl. 244-122.00A.
Soloni, Ugo: *See*—
Vianello, Giorgio; and Soloni, Ugo, 4,644,872, Cl. 105-801.000.
Solorzano, Armando N., to Xanar, Inc. Smoke evacuator system with electronic control circuitry. 4,642,128, 2-10-87, Cl. 55-217.000.
Solorzano, Armando N.: *See*—
Robertson, Philip D.; and Solorzano, Armando N., 4,701,193, Cl. 55-217.000.
Solorzano, Marilyn M.: *See*—
Mitchell, Gary A.; Jaffe, Gerald E.; and Solorzano, Marilyn M., 4,694,070, Cl. 530-329.000.
Soloveychik, Yakov G.; and Messerly, John J., to Visualtek, Inc. Method and apparatus for printing Braille. 4,653,942, 3-31-87, Cl. 400-122.000.
Solovieff, Paul, to Kwikset Corporation. Latch helical backset adjustment. 4,664,433, 5-12-87, Cl. 292-337.000.
Solow, Joseph E., to Wolo Manufacturing Corporation. Automobile anti-theft device. 4,658,613, 4-21-87, Cl. 70-427.000.
Solow, Joseph E., to Wolo Manufacturing Corp. Automobile anti-theft device. 4,712,639, 12-15-87, Cl. 180-287.000.
Soloway, Samuel B.: *See*—
John, William W.; Estreicher, Herbert; and Soloway, Samuel E., 4,699,651, Cl. 71-92.000.
Payne, George B.; Soloway, Samuel B.; Powell, James E.; Roman, Steven A.; and Kollmeyer, Willy D., 4,670,041, Cl. 71-92.000.
Solstad, Russell V., to VTC Incorporated. Integrated circuit packaging process. 4,689,875, 9-1-87, Cl. 437-211.000.
Solstad, Russell V.; Scott, Millard; and Holliday, William, to VTC Incorporated. Burn-in apparatus for integrated circuits mounted on a carrier tape. 4,713,611, 12-15-87, Cl. 324-158.00F.
Solt, George S.; and Klapwijk, Abraham. Process for reducing the nitrate content in water. 4,671,879, 6-9-87, Cl. 210-610.000.
Solt, Katalin: *See*—
Popovic, Radivoje; Solt, Katalin; and Berchier, Jean-Luc, 4,673,964, Cl. 357-27.000.
Soltau, Gerd. Apparatus for below-ground driving of pipeline segments. 4,684,290, 8-4-87, Cl. 405-184.000.
Solter, Davor: *See*—
McGrath, James; and Solter, Davor, 4,664,097, Cl. 128-1.00R.
Soltermack, Gilbert W., to De Cesare, Jim L. Method for driving an engine. 4,706,462, 11-17-87, Cl. 60-712.000.

Soltermann, Bertrand: *See—*
Meister, Pierre-Andre; Schmidli, Pierre; and Soltermann, Bertrand, 4,695,168, Cl. 368-31.000.

Soltesz, Richard G.: *See—*
Zimmer, John J.; and Soltesz, Richard G., 4,638,667, Cl. 73-432.100.

Soltis, Andrew P.: *See—*
Ustin, George; and Soltis, Andrew P., 4,659,169, Cl. 339-198.00R.

Soltis, Richard R. Can top opener. 4,660,446, 4-28-87, Cl. 51-3.550.

Soltow, Uwe; Guthke, Hans-Peter; Plate, Hans-Georg; Lechner, Johann; and Kirma, Safa, to Messerschmitt-Bolkow-Blohm GmbH. Device for securing a plurality of electrical conductors or cables. 4,715,571, 12-29-87, Cl. 248-68.100.

Soltysiak, Peter, to Mannesmann Aktiengesellschaft. Resilient suspension for conduits. 4,681,294, 7-21-87, Cl. 248-613.000.

Soltysiak, Robert M.: *See—*
Bull, Robert W.; Soltysiak, Robert M.; and Minnick, Paul D., 4,689,224, Cl. 424-89.000.

Solvay & Cie (Societe Anonyme): *See—*
Bienfait, Charles; and Demiddeleer, Leopold, 4,675,368, Cl. 526-75.000.
Collart, Andre ; and Declerck, Fredy, 4,691,000, Cl. 528-244.000.
Collin, Andre; and Wautier, Henri, 4,697,029, Cl. 558-92.000.
Collin, Andre, 4,714,720, Cl. 521-171.000.
Decroly, Pierre; and Dehennau, Claude, 4,659,625, Cl. 428-412.000.
Dehennau, Claude; and Kerger, Marc, 4,652,225, Cl. 425-133.100.
Dehennau, Claude; Kerger, Marc; and Dubuisson, Leon, 4,657,497, Cl. 425-133.100.
Dehennau, Claude; and Dubois, Paul, 4,690,628, Cl. 425-133.500.
Dehennau, Claude; and Vandendael, Yannick, 4,695,506, Cl. 428-212.000.
Delbouille, Andre; and Derroitte, Jean-Louis, 4,649,182, Cl. 526-125.000.
della Faille d'Huysse, Gaetan; and Boxus, Louis, 4,645,612, Cl. 252-70.000.
Franklin, James, 4,661,648, Cl. 570-208.000.
Gago, Ignace; and Detroz, Rene , 4,661,351, Cl. 424-93.000.
Gago, Ignace; and Berwart, Emile, 4,703,713, Cl. 118-19.000.
Goll, Werner, 4,642,249, Cl. 427-388.500.
Lazzaroni, Roberto; Riga, Joseph; and Verbist, Jacques, 4,663,001, Cl. 204-78.000.
Ninane, Leon; and Breton, Claude, 4,677,229, Cl. 564-437.000.
Ruelle, Jean-Jacques; d'Andrea, Giacomo; and Asselberghs, Leopold, 4,680,958, Cl. 73-56.000.
Tytgat, Daniel; Lefevre, Pierre; and Marechal, Michel, 4,652,340, Cl. 156-664.000.
Tytgat, Daniel; and Lefevre, Pierre, 4,678,541, Cl. 156-664.000.
Van Asbroeck, Roger; and Blanc, Serge, 4,670,493, Cl. 524-120.000.
Vanlautem, Noel; and Gilain, Jacques, 4,705,604, Cl. 203-67.000.

Solvay Construction Materials, Inc.: *See—*
Gutmann, Paul F.; and Lane, Donald R., 4,689,083, Cl. 106-88.000.

Solymos, Andras: *See—*
Matyas, Bela; Gerber, Pal; Solymos, Andras; Kaszanitzky, Ferenc; Panto, Gyorgy; and Leffler, Janos, 4,649,031, Cl. 423-20.000.

Solyom, Sandor; Toldy, Lajos; and Szilagyi nee Farago, Katalin, to Richter Gedeon Vegyeszeti Gyar Rt. Novel 20 benzcylamino pregnene derivatives and process for preparing same. 4,668,437, 5-26-87, Cl. 260-397.400.

Soma, Hiroshi; Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, to Kawasaki Jukogyo Kabushiki Kaisha. Roller mill. 4,643,366, 2-17-87, Cl. 241-117.000.

Soma International Ltd.: *See—*
Law, N. Y., 4,643,696, Cl. 446-465.000.
Law, Nin. Y., 4,655,724, Cl. 446-443.000.

Soma, Keiji, to Hirose Electric Co., Ltd. Method of press-connecting multicore flat cable and electric connector for multicore flat cable. 4,671,596, 6-9-87, Cl. 439-404.000.

Soma, Keiji, to Hirose Electric Co., Ltd. Electric connector for multiconductor flat cables. 4,713,025, 12-15-87, Cl. 439-752.000.

Soma, Shinobu: *See—*
Shoji, Hisashi; Haneda, Satoshi; Hiratsuka, Seiichiro; Fuma, Hiroshi; Soma, Shinobu; Itaya, Masahiko; Tamura, Akihiko; and Hayakawa, Kazushi, 4,669,864, Cl. 355-15.000.
Tokunaga, Hiroshi; Soma, Shinobu; Aoki, Naoki; and Kusuda, Tatsufumi, 4,674,860, Cl. 355-3.0TR.

Soma, Takao: *See—*
Matsui, Minoru; and Soma, Takao, 4,692,419, Cl. 501-97.000.
Oda, Isao; and Soma, Takao, 4,692,420, Cl. 501-97.000.

Somafer: *See—*
Detronde, Michel, 4,671,674, Cl. 374-5.000.

Somar Corporation: *See—*
Ebara, Ryohei; and Sano, Shinichi, 4,681,784, Cl. 428-40.000.
Nagasawa, Kohtaro; and Morikubo, Kunio, 4,681,833, Cl. 430-175.000.
Nishi, Yoshitsugu; and Daigo, Yukitaka, 4,638,501, Cl. 378-182.000.

Somasundaram, Hariharan: *See—*
Fish, Aaron M.; Mazoff, Stanley S.; D'Intino, Adamo M.; and Somasundaram, Hariharan, 4,640,110, Cl. 70-269.000.
Fish, Aaron M.; and Somasundaram, Hariharan, 4,663,953, Cl. 70-380.000.

Somat Corporation: *See—*
Fields, Evan P., 4,651,636, Cl. 100-95.000.

Somatani, Toshifumi: *See—*
Miura, Kenji; Nakajima, Shigeru; Minegishi, Kazushige; Morie, Takashi; and Somatani, Toshifumi, 4,672,410, Cl. 357-23.600.
Nakajima, Shigeru; Minegishi, Kazushige; Miura, Kenji; Morie, Takashi; and Somatani, Toshifumi, 4,683,643, Cl. 437-203.000.

Somdahl, Eugene R.: *See—*
Chen, Steve S.; Schiffleger, Alan J.; Somdahl, Eugene R.; and Higbie, Lee, 4,636,942, Cl. 364-200.000.

Someah, Kaveh S.: *See—*
Voith, Donald J.; and Someah, Kaveh S., 4,643,248, Cl. 165-95.000.

Somekh, Sasson: *See—*
Foster, Robert; Wang, David N.; Somekh, Sasson; and Maydan, Dan, 4,668,365, Cl. 204-192.230.
Maydan, Dan; Somekh, Sasson; Cheng, Mei; and Cheng, David, 4,668,338, Cl. 156-643.000.

Someno, Tetsuya; Kato, Kazuo; Takahashi, Yasushi; Ishii, Shinichi; Takeuchi, Tomio; and Umezawa, Hamao, to Nippon Kayaku Kabushiki Kaisha. Protease adsorbent and process for purifying TPA utilizing the same. 4,708,944, 11-24-87, Cl. 502-7.000.

Somer, Gerald L., to AMP Incorporated. RF fsk transmitter. 4,682,344, 7-21-87, Cl. 375-62.000.

Somero, David W.; Somero, Paul J.; and Quenzi, Philip J., to Somero, David W.; and Somero, Paul J. Screeding apparatus and method. 4,655,633, 4-7-87, Cl. 404-75.000.

Somero, Paul J.: *See—*
Somero, David W.; Somero, Paul J.; and Quenzi, Philip J., 4,655,633, Cl. 404-75.000.

Somers, Gerardus A.: *See—*
Lovie, John R.; Somers, Gerardus A.; and Hendriks, Jan J. M., 4,715,935, Cl. 204-44.600.

Somers, Peter J.: *See—*
Barker, Sidney A.; and Somers, Peter J., 4,663,449, Cl. 536-125.00.
Barker, Sidney A.; and Somers, Peter J., 4,713,118, Cl. 127-38.00.

Somers, Ralph M.: *See—*
Fulkerson, Emmet M.; Somers, Ralph M.; and Compton, Diana R., 4,695,721, Cl. 250-234.000.

Somerset, John B., to McPherson's Limited. Cookery implement. 4,711,029, 12-8-87, Cl. 30-148.000.

Somerset Technologies, Inc.: *See—*
Grenfell, Thomas N., 4,650,414, Cl. 431-5.000.

Somerville Belkin Industries Inc.: *See—*
Atkinson, William G., 4,705,929, Cl. 219-10.55E.

Somerville, Robert L.; Sweat, Samuel F.; and Sullivan, John L. Method of converting brines to useful products. 4,634,533, 1-6-87, Cl. 210-722.000.

Somerville, Thomas A., to Burr-Brown Corporation. Metal oxide semiconductor stabilized dc to dc/ac converter. 4,707,776, 11-17-87, Cl. 363-134.000.

Somes, Richard K., to Sperry Corporation. Phase locked looped controller for motordrivers. 4,644,749, 2-24-87, Cl. 60-459.000.

Someshwar, Ashok H.: *See—*
Eitrheim, John K.; Pappert, Bernard J.; and Someshwar, Ashok H., 4,663,546, Cl. 307-527.000.
Eitrheim, John K.; and Someshwar, Ashok H., 4,687,959, Cl. 307-465.000.

Somevena B.V.: *See—*
Ettema, Ernst; and de Vries, Jan, 4,642,940, Cl. 47-44.000.

Someya, Atsushi: *See—*
Matsuoka, Kazuhiko; Usui, Masayuki; Minoura, Kazuo; Baba, Takeshi; and Someya, Atsushi, 4,641,920, Cl. 350-173.000.

Someya, Hiromi; Athara, Yoshihiko; Mizogui, Toyokazu; and Sarui, Nobuyuki, to Canon Kabushiki Kaisha. Multi-program control device for camera. 4,673,277, 6-16-87, Cl. 354-474.000.

Someya, Hiromi, to Canon Kabushiki Kaisha. Information setting device for camera. 4,687,308, 8-18-87, Cl. 354-82.000.

Someya, Hiromi: *See—*
Momiyama, Kikuo; and Someya, Hiromi, 4,664,485, Cl. 350-410.000.

Someya, Hitoshi: *See—*
Higuchi, Akio; and Someya, Hitoshi, 4,666,219, Cl. 312-7.200.

Someya, Ryoichi: *See—*
Watanabe, Tsutomu; Saya, Tsutomu; Takashima, Hiroshi; Someya, Ryoichi; and Kobayashi, Hiroaki, 4,677,330, Cl. 310-154.000.

Somezawa, Masashi: *See—*
Chubachi, Ryoji; Kawamura, Yoshihisa; and Somezawa, Masashi, 4,654,260, Cl. 428-328.000.
Ninomiya, Yoshinobu; Somezawa, Masashi; and Oiyama, Kiyokazu, 4,634,633, Cl. 428-425.900.
Ninomiya, Yoshinobu; Somezawa, Masashi; and Oiyama, Kiyokazu, 4,637,959, Cl. 428-425.900.

Somfy: *See—*
Pasquier, Henri; and Jacquel, Dominique, 4,665,965, Cl. 160-310.000.
Rousselot, Andre , 4,712,440, Cl. 74-89.150.

Somich Technology Inc.: *See—*
Soszek, Peter, 4,698,907, Cl. 29-846.000.
Soszek, Peter, 4,710,253, Cl. 156-272.800.

Somlo, Tibor: *See—*
Davatz, Alexander; and Somlo, Tibor, 4,642,350, Cl. 548-260.000.

Somma, Jack J.: *See—*
Damour, Philippe; Patoureau, Alain; Somma, Jack J.; and Thompson, Ronald J., 4,714,356, Cl. 384-275.000.

Sommacal, Franco: *See—*
Guerrini, Giampaolo; and Sommacal, Franco, 4,702,107, Cl. 73-319.000.

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Sommer, Bruno, to Sulzer Brothers Limited. Fuel injection system for a combustion chamber of a reciprocating internal combustion engine. 4,662,315, 5-5-87, Cl. 123-23.000.
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Sommer, Gordon M., 4,693,350, Cl. 192-18.00A.
Sommer, Edward: *See*—
Nigg, Daniel; DeRoss, Robert; Sommer, Edward; Raymer, Jack D., II; and Crane, Burke, 4,659,157, Cl. 339-18.00R.
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Sommer, Hans-Jorg: *See*—
Mutter, Heinz; Sommer, Hans-Jorg; Graf, Felix; and Wirz, Armin, 4,677,387, Cl. 324-454.000.
Sommer, Harold Z.; and Wicks, George E., Jr., to United States of America, Army. Chemical agents. 4,672,069, 6-9-87, Cl. 514-346.000.
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Sommer, Harold Z.; and Miller, Jacob L., to United States of America, Army. Chemical agents. 4,675,411, 6-23-87, Cl. 546-292.000.
Sommer, Harold Z.; Krenzer, John; Owens, Omer O.; and Miller, Jacob L., to United States of America, Army. Chemical agents. 4,677,204, 6-30-87, Cl. 546-261.000.
Sommer, Harold Z.; and Wicks, George E., Jr., to United States of America, Army. Chemical agent. 4,677,205, 6-30-87, Cl. 546-292.000.
Sommer, Harold Z.; Wicks, George E., Jr.; and Owens, Omer O., to United States of America, Army. Ketobenzylcarbamates. 4,677,222, 6-30-87, Cl. 560-133.000.
Sommer, Harold Z.; and Owens, Omer O., to United States of America, Army. Chemical agents. 4,686,293, 8-11-87, Cl. 546-261.000.
Sommer, Harold Z., to United States of America, Army. Chemical agents. 4,692,530, 9-8-87, Cl. 546-261.000.
Sommer, Herbert, to Jagenberg Aktiengesellschaft. Device for coating continuous webs. 4,651,672, 3-24-87, Cl. 118-126.000.
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Sommer, John G., to GenCorp Inc. Preblends. 4,676,922, 6-30-87, Cl. 252-182.000.
Sommer, Karl; Heinz, Robert; Hettche, Albert; Perner, Johannes; Schuster, Werner; and Trieselt, Wolfgang, to BASF Aktiengesellschaft. Granular bleaching activator. 4,695,397, 9-22-87, C, 252-182.000.
Sommer, Robert G.: *See*—
Lewandowski, Edward F.; Cassidy, Dale A.; and Sommer, Robert G., 4,639,571, Cl. 219-121.0EC.
Sommer, Sheldon E., to Mobil Oil Corporation. Optical reflectance standard for geological exploration. 4,647,198, 3-3-87, Cl. 356-243.000.
Sommer S.A.: *See*—
DuForest, Rene; and Roussel, Albert, 4,675,216, Cl. 427-56.100.
Sommer, Walter: *See*—
Schaper, Ulf-Armin; Streschnak, Benno; Bloesl, Siegfried; and Sommer, Walter, 4,652,401, Cl. 252-522.00R.
Sommer Werner: *See*—
Buck, Hermann; and Sommer, Werner, 4,673,382, Cl. 493-359.000.
Sommerer, Jurgen; Leipold, Michael; Kainer, Hartmut; and Stein, Hermann, to Didier-Werke AG. Process and device for mounting porous ceramic material. 4,677,731, 7-7-87, Cl. 29-526.00R.
Sommerfeld, Claus-Dieter: *See*—
Haas, Peter; Freitag, Hans-Albrecht; Avar, Geza; Sommerfeld, Claus-Dieter; and Illger, Hans-Walter, 4,644,017, Cl. 521-129.000.
Haas, Peter; Weber, Hans-Ulrich; Sommerfeld, Claus-Dieter; Giersig, Manfred; and Wiedermann, Rolf, 4,681,903, Cl. 521-167.000.
Sommerfeld, Dean R.: *See*—
Staun, Paul R.; Weir, Robert M.; and Sommerfeld, Dean R., 4,715,401, Cl. 137-355.170.
Sommerfeld, Howard R.: *See*—
Kanjo, Wajih; and Sommerfeld, Howard R., 4,645,187, Cl. 267-9.00A.
Sommerlad, Robert E., to Foster Wheeler Development Corporation. Method for removing sulfur dioxide from flue gases. 4,666,690, 5-19-87, Cl. 423-242.000.
Sommermann, Friedrich: *See*—
Kohl, Albert; Melzer, Milena; Lehner, August; Schneider, Norbert; Koester, Eberhard; Balz, Werner; Sommermann, Friedrich; and Ricker, Ernst, 4,668,586, Cl. 428-411.100.
Lehner, August; Kohl, Albert; Balz, Werner; Sommermann, Friedrich; Velic, Milan; Grau, Werner; and Baur, Reinhold, 4,647,513, Cl. 428-694.000.
Lehner, August; Kohl, Albert; Roller, Hermann; Balz, Werner; Koester, Eerhard; and Sommermann, Friedrich, 4,656,093, Cl. 428-403.000.
Sommers, Dale C.; Hibberd, Frank L.; and Jayko, Doreen M. Ultra-miniature collapsible butane fueled mantle lantern. 4,702,690, 10-27-87, Cl. 131-110.000.
Somogyi, Agnes: *See*—
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Somycel: *See*—
Miller, Liliane, 4,658,083, Cl. 800-1.000.
Son, Adelina J.; and Loftin, Royal E., to Halliburton Company. Method for effecting electric well logging with introduction of a fluid composition to minimize the effect of interfering ions. 4,647,859, 3-3-87, Cl. 324-323.000.
Son, Jaime S.; and Lewellen, Philip C., to Shell Oil Company. Mixing element for compounds and extruding machinery. 4,659,230, 4-21-87, Cl. 366-343.000.
Son, Jaime S.: *See*—
Lewellen, Philip C.; and Son, Jaime S., 4,657,499, Cl. 425-208.000.
Son, Lee C., to Park, Sang M. Water saving stopcock. 4,667,349, 5-26-87, Cl. 4-191.000.
Son, Pyong N.: *See*—
Lai, John T.; and Son, Pyong N., 4,639,479, Cl. 524-100.000.
Lai, John T.; and Son, Pyong N., 4,698,446, Cl. 564-494.000.
Son, Pyong-Nae; and Lai, John T., to B. F. Goodrich Company, The. Oligomeric amides as synergists for antioxidants and UV stabilizers. 4,650,903, 3-17-87, Cl. 564-153.000.
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Son, Pyong-Nae; and Jacobs, Charles P., to B.F. Goodrich Company, The. Purification of 1-(2-amino-2-alkylpropyl)-3,3,5,5-tetraalkylpiperazinones. 4,687,850, 8-18-87, Cl. 544-384.000.
Son, Pyong-Nae; and Lai, John T., to B. F. Goodrich Company, The. 1,2-ethanediyl-bis-2-piperazinone esters, oligomers thereof, and compositions stabilized thereby. 4,692,487, 9-8-87, Cl. 524-100.000.
Sonar & Wells Testing Services, Inc.: *See*—
Anderson, Leo J., 4,701,892, Cl. 367-35.000.
Sonat Subsea Services (UK) Limited: *See*—
Hogg, George A., 4,688,290, Cl. 15-104.040.
Sonck, Willy, to General Coatings. Equipment for carrying out work, under dry conditions, on an underwater structure. 4,696,597, 9-29-87, Cl. 405-12.000.
Sondages Injections Forages "S.I.F." Enterprise Bachy: *See*—
Gessay, Jean-Claude, 4,662,792, Cl. 405-233.000.
Sondahl, Maro R.; and Evans, David A., to DNA Plant Technology Corporation. Controlled regeneration of corn plants and breeding strategies therewith. 4,659,668, 4-21-87, Cl. 435-240.000.
Sonderegger, Hans-Conrad; Calderara, Reto; Wenger, Alfred; and Baumgartner, Hans-Ulrich, to Kristal Instrumente AG. Transducer inserts; methods of making them and sensors for measuring mechanical variables. 4,691,575, 9-8-87, Cl. 73-756.000.
Sonderegger, Hans-Conrad: *See*—
Baumgartner, Hans-Ulrich; Calderara, Reto; and Sonderegger, Hans-Conrad, 4,701,660, Cl. 310-338.000.
Tanner, Rene; Calderara, Reto; Wenger, Alfred; and Sonderegger, Hans-Conrad, 4,675,643, Cl. 338-4.000.
Sondergeld, Carl H.; Frisillo, Albert L.; and Norris, Janice O., to Amoco Corporation. Methods of determining lithological characteristics of an underground formation which utilize compressional velocity and shear velocity data. 4,692,910, 9-8-87, Cl. 367-75.000.
Sondergeld, Manfred A. J.; Dudek, Dietmar; and Hossner, Klaus, to Du Pont de Nemours, E. I., and Company. Process to lower the viscosity of coating solutions for the production of light-sensitive reproduction materials. 4,683,190, 7-28-87, Cl. 430-281.000.
Sonderman, William G.: *See*—
Troutman, Paul H.; Lester, Eddie D.; and Sonderman, William G., 4,663,601, Cl. 335-207.000.
Sonders, Mark: *See*—
Weber, Eckard; Sonders, Mark; and Keana, John F., 4,709,094, Cl. 564-238.000.
Sondov, Sten Y.; and From, Jan O., to Interpublic a.s. Tubular trash net for pre-treating sewage, with replaceable net cassette. 4,681,688, 7-21-87, Cl. 210-770.000.

Sone, Chiharu: *See*—
Kawata, Hiroitsu; Aruga, Masayoshi; Ohmura, Tadayoshi; Sonobe, Takashi; Yoneya, Satoru; and Sone, Chiharu, 4,673,564, Cl. 424-494.000.

Sone, Jun'ichi, to NEC Corporation. Heterojunction bipolar transistor having a base region of germanium. 4,716,445, 12-29-87, Cl. 357-16.000.

Sone, Masakazu; and Nakajima, Takeshi, to Sony Corporation. Paper feeding and ejecting device for a printing apparatus. 4,679,953, 7-14-87, Cl. 400-625.000.

Sone, Takanori: *See*—
Hidaka, Hiroyoshi; and Sone, Takanori, 4,634,770, Cl. 546-145.000.
Hidaka, Hiroyoshi; and Sone, Takanori, 4,678,783, Cl. 514-218.000.
Hidaka, Hiroyoshi; and Sone, Takanori, 4,709,032, Cl. 544-363.000.

Sone, Tomoshi: *See*—
Yotsutani, Akio; Makino, Masayuki; Saegusa, Noboru; and Sone, Tomoshi, 4,640,986, Cl. 379-60.000.

Sone, Yasuo: *See*—
Iwamoto, Masayuki; Araki, Setsuo; and Sone, Yasuo, 4,700,626, Cl. 101-230.000.

Sone, Yoshiaki: *See*—
Ishikawa, Kiyotsugu; Takamura, Tohru; Sone, Yoshiaki; Hashimoto, Susumu; and Hiramoto, Masao, 4,670,777, Cl. 358-48.000.
Misaki, Akira; Sone, Yoshiaki; and Kato, Takao, 4,639,516, Cl. 536-123.000.

Soneda, Mitsuo; and Hazama, Yoshikazu, to Sony Corporation. Sample-and-hold circuit. 4,694,341, 9-15-87, Cl. 358-160.000.

Sonehara, Noboru: *See*—
Ogasawara, Fumihiro; and Sonehara, Noboru, 4,677,257, Cl. 178-4.000.

Sonenstein, Gerard G., to Colgate-Palmolive Company. Water soluble films of polyvinyl alcohol and polyacrylic acid and packages comprising same. 4,692,494, 9-8-87, Cl. 525-57.000.

Sones, Richard A., to Picker International, Inc. Imaging with focused curved radiation detectors. 4,709,382, 11-24-87, Cl. 378-62.000.

Sonex Research, Inc.: *See*—
Pouring, Andrew A., 4,681,072, Cl. 123-193.00P.

Song, John S. Plant tissue culture vessel and filter. 4,670,398, 6-2-87, Cl. 435-298.000.

Song, Ju M.: *See*—
Lee, Byong G.; Song, Ju M.; and Kim, Chi S., 4,661,468, Cl. 502-333.000.

Song, Ki W., to Kookje Elec. Ind. Co., Ltd. Electric power control switch. 4,675,478, 6-23-87, Cl. 200-38.00R.

Song, Kun K.: *See*—
Petty, Terry D.; Costello, Carmon R.; Song, Kun K.; Chabot, Luc G.; Fujita, Tadahiro; Hirose, Haruki; and Yoshimura, Nobutoshi, 4,639,167, Cl. 405-217.000.

Song, Peter: *See*—
Mouche, Richard J.; and Song, Peter, 4,681,687, Cl. 210-764.000.

Song, Seob S., to Dae Woo Electronics Co., Ltd. Refrigerator temperature control apparatus. 4,646,531, 3-3-87, Cl. 62-187.000.

Song, Won I. Partitioned box for pouring a measured amount of a granulated solid. 4,667,857, 5-26-87, Cl. 222-454.000.

Song, Yihhong: *See*—
Paparizos, Christos; and Song, Yihhong, 4,704,496, Cl. 585-500.000.

Song, Yoon S.; and McCandless, Henry A., to Amoco Corporation. Process for preparation of Mannich reaction products from oxidized polymers. 4,663,392, 5-5-87, Cl. 525-155.000.

Songer, Jimmie D., to High Resolution Television, Inc. High resolution color television. 4,710,799, 12-1-87, Cl. 358-12.000.

Soni, Pravin L.; and Glendinning, Alan B., to Raychem Corporation. Articles comprising stabilized piezoelectric vinylidene fluoride polymers. 4,668,449, 5-26-87, Cl. 264-22.000.

Soni, Pravin L.; Farrar, Nigel R.; Turk, Peter; and Rauwendaal, Christiaan J., to Raychem Corporation. Method of preparing a piezoelectric device. 4,688,306, 8-25-87, Cl. 29-25.350.

Soni, Yogendra: *See*—
Casad, Burton M.; Soni, Yogendra; and Jurinak, Jeff J., 4,687,058, Cl. 166-263.000.

Sonic Tape P.L.C.: *See*—
Czajkowski, Stanislaw B., 4,644,513, Cl. 367-108.000.

Sonnabend, Werner: *See*—
Breitling, Wolfram; and Sonnabend, Werner, 4,675,788, Cl. 361-414.000.

Sonne, Darrell S.; and Beard, William J., to Halliburton Company. Gamma ray measurement of earth formation properties using a position sensitive scintillation detector. 4,638,158, 1-20-87, Cl. 250-266.000.

Sonne, Darrell S.; and Nunley, Allen, to Halliburton Company. High resolution scintillation crystal. 4,638,164, 1-20-87, Cl. 250-366.000.

Sonneborn, Hans H.: *See*—
Hempel, Hans D.; Horn, Jurgen; Rothermel, Wilfried; Sonneborn, Hans H.; Becker, Michael; and Muller, Ullrich, 4,678,753, Cl. 435-296.000.

Sonneborn, Siegfried; Handel, Manfred; Mack, Ernst; Gerstrom, Carl F.; and Sorensen, Peter, to V Kann Rasmussen Holding A/S. Hinge device with brake spring for tilting windows. 4,654,931, 4-7-87, Cl. 16-337.000.

Sonnek, Werner: *See*—
Pfluger, Helmut; and Sonnek, Werner, 4,676,666, Cl. 384-15.000.

Sonnemaker, Frank F. Ice fishing apparatus. 4,707,932, 11-24-87, Cl. 43-17.000.

Sonnenberg, Blazej W.: *See*—
Raddi, William J.; Johnson, Robert W., Jr.; Tracy, John G.; and Sonnenberg, Blazej W., 4,673,825, Cl. 307-66.000.

Sonnenberg, Fred M., to Atlantic Richfield Company. Foam cups with enhanced coffee retention. 4,703,065, 10-27-87, Cl. 521-57.000.

Sonnenberg, John R., to Motorola, Inc. Frequency synthesizer modulation response linearization. 4,649,353, 3-10-87, Cl. 331-8.000.

Sonnenberg, Joseph, to Raychem Corporation. Flame retardants and compositions containing them. 4,644,066, 2-17-87, Cl. 548-462.000.

Sonnenberger, Paul, to U.S. Philips Corporation. Semiconductor device having a bipolar transistor with emitter series resistances. 4,689,655, 8-25-87, Cl. 357-45.000.

Sonnenburg, Dennis T.: *See*—
Brooks, Ralf M.; Connell, Brian P.; Sonnenburg, Dennis T.; and Pagowski, Stefan J., 4,712,113, Cl. 346-1.100.

Sonnendorfer, Horst: *See*—
Wieth, Franz; and Sonnendorfer, Horst, 4,635,782, Cl. 194-212.000.

Sonnenschein, Hans: *See*—
Riemann, Hanns-Helmut; Skaletz, Heinz-Josef; and Sonnenschein, Hans, 4,634,060, Cl. 241-74.000.

Sonnichsen, George: *See*—
Bergna, Horacio E.; Corbin, David R.; and Sonnichsen, George, 4,683,334, Cl. 564-474.000.

Sonnig, S.A.: *See*—
Kimblad, Folke, 4,669,619, Cl. 212-160.000.

Sonnleitner, Herbert: *See*—
Diederen, Werner; and Sonnleitner, Herbert, 4,634,329, Cl. 414-159.000.

Sonntag, Claus: *See*—
Ledent, Pierre; and Sonntag, Claus, 4,705,109, Cl. 166-251.000.

Sonntag, Michael: *See*—
Hohlein, Peter; Schmidt, Manfred; Fedam, Josef; Riberi, Bernd and Sonntag, Michael, 4,639,499, Cl. 526-285.000.
Probst, Joachim; Sonntag, Michael; Richter, Roland; and Muller, Hanns P., 4,645,817, Cl. 528-45.000.

Sono, Michio, to Fujitsu Limited. Resin-sealed radiation shield for a semiconductor device. 4,661,837, 4-28-87, Cl. 357-84.000.

Sono-Tek Corporation: *See*—
Erickson, John J., 4,642,581, Cl. 331-154.000.

Sonobe, Akihiko: *See*—
Hongo, Suzuaki; Niwa, Minoru; Hashiba, Takahiro; Harata, Mitsuru; Hirata, Ichiro; Ito, Isamu; and Sonobe, Akihiko, 4,709,944, Cl. 280-777.000.

Sonobe, Hiraku: *See*—
Yoshioka, Kiyoharu; Hashimoto, Norio; and Sonobe, Hiraku, 4,700,237, Cl. 358-287.000.

Sonobe, Takashi: *See*—
Kagatani, Seiya; Hasumi, Shunji; Sonobe, Takashi; and Aruga, Masayoshi, 4,690,952, Cl. 514-808.000.
Kawata, Hiroitsu; Aruga, Masayoshi; Ohmura, Tadayoshi; Sonobe, Takashi; Yoneya, Satoru; and Sone, Chiharu, 4,673,564, Cl. 424-494.000.
Konno, Yutaka; Kawata, Hiroitsu; Aruga, Masayoshi; Sonobe, Takashi; and Mitomi, Mitsuo, 4,637,930, Cl. 424-28.000.
Konno, Yutaka; Kawata, Hiroitsu; Aruga, Masayoshi; Sonobe, Takashi; and Mitomi, Mitsuo, 4,685,911, Cl. 604-897.000.

Sonobe, Toshimitsu, to Thomas & Betts Corporation. Cassette connector. 4,636,022, 1-13-87, Cl. 339-75.0MP.

Sonobe, Yoshiaki; and Suzuki, Toshiyuki, to Tokyo Shibaura Denki Kabushiki Kaisha. Perpendicular magnetic recording method. 4,646,168, 2-24-87, Cl. 360-18.000.

Sonobe, Youji; Tamura, Youichi; and Umesaki, Kenichiro, to Anritsu Electric Company Limited. Driving circuit of a grating. 4,643,572, 2-17-87, Cl. 356-334.000.

Sonoco Products Company: *See*—
Baxley, William H.; Weatherford, Marion H.; Wilfong, Harry B., Jr.; and Williams, Floyd B., 4,676,378, Cl. 206-554.000.
Cannon, David C., 4,690,299, Cl. 220-402.000.
Hoover, Gregory A., 4,696,403, Cl. 206-602.000.
Lounsbury, Charles W., Jr., Graudons, Gary D.; and Rider, Paul J., 4,646,677, Cl. 118-653.000.
Smith, Garrett N., 4,670,311, Cl. 427-391.000.

Sonoda, Hiroshi: *See*—
Tsuchida, Takayasu; Otsuka, Noboru; and Sonoda, Hiroshi, 4,656,135, Cl. 435-116.000.

Sonoda, Hirotetu: *See*—
Suzuki, Yoshio; Sonoda, Hirotetu; and Yabe, Hideo, 4,674,587, Cl. 180-142.000.
Suzuki, Yoshio; Sonoda, Hirotetu; and Yabe, Hideo, 4,681,184, Cl. 180-141.000.

Sonoda, Noboru; Hosoda, Naoyuki; and Hori, Kazumasa, to Mitsubishi Kinzoku Kabushiki Kaisha. Process for recovering or purifying selenium. 4,663,141, 5-5-87, Cl. 423-510.000.

Sonoda, Noboru, to Idemitsu Kosan Company Limited. Apparent viscosity measuring apparatus. 4,677,844, 7-7-87, Cl. 73-55.000.

Sonoda, Nobuharu, to Mitsubishi Gas Chemical Company, Inc. Flame-resisting polycarbonate resin composition. 4,663,374, 5-5-87, Cl. 524-118.000.

Sonoda, Sakae: *See*—
Katayama, Toshitake; Kuwamoto, Hiroshi; Iwado, Shuichi; Sonoda, Sakae; Okamoto, Shoji; and Kaburagi, Koji, 4,666,617, Cl. 252-32.000.

Sonoda, Shinji; Ozaki, Norihiko; Watahiki, Seishi; Sakuma, Yasuzi; and Yamaguchi, Masayoshi, to Hitachi, Ltd. Moving apparatus for a hollow curved pipe-arrangement and an operating method in the pipe-arrangement by using the moving apparatus. 4,644,791, 2-24-87, Cl. 73-432.100.

Sonoda, Shinji: *See*—
Michiguchi, Yoshihiro; Takahashi, Fuminobu; Hiramoto, Kazuo; Nishi, Masatsugu; and Sonoda, Shinji, 4,706,031, Cl. 324-337.000.
Sonoda, Toshinari; and Koinuma, Yutaka, to Honda Giken Kogyo Kabushiki Kaisha. Oil supply system for valves in an internal combustion engine. 4,649,874, 3-17-87, Cl. 123-90.360.
Sonoda, Yoshiteru: *See*—
Ogawa, Hiroshi; Sonoda, Yoshiteru; and Dohi, Ryosuke, 4,645,176, Cl. 251-129.080.
Sonomo Corporation: *See*—
Dew, Douglas, 4,672,969, Cl. 128-397.000.
Sonotech, Inc.: *See*—
Zinn, Ben T.; and Daniel Brady R., 4,699,588, Cl. 432-58.000.
Sonotek Corporation: *See*—
Berger, Harvey L., 4,655,393, Cl. 239-102.100.
Sonoyama, Takayasu; Yagi, Shigeo; and Kageyama, Bunji, to Shionogi & Co., Ltd. Process for preparing 2-keto-L-gulonic acid. 4,696,897, 9-29-87, Cl. 435-42.000.
Sontag, Hugh D., to Minnesota Mining and Manufacturing Company. Signal transmission system. 4,654,880, 3-31-87, Cl. 455-41.000.
Sontheimer, Carl G., to Cuisinarts, Inc. Switch for automatically interrupting a circuit when its contacts are fused together in the "ON" position. 4,647,727, 3-3-87, Cl. 200-1.00R.
Sontheimer, Carl G.; and Williams, James E., to Cuisinarts, Inc. Salad spinner dryer apparatus rotated by speed reducing friction drive for use with food processors. 4,702,162, 10-27-87, Cl. 99-495.000.
Sony Corporation: *See*—
Abe, Fumiyoshi, 4,713,715, Cl. 360-137.000.
Abe, Mitsuo; and Suzuki, Tadao, 4,649,372, Cl. 340-347.0NT.
Abe, Takao; and Ogaga, Tetsuo, 4,706,111, Cl. 358-21.00R.
Akagiri, Kenzo; and Nishiguchi, Masayuki, 4,685,115, Cl. 375-25.000.
Akiba, Yukio, 4,670,296, Cl. 427-68.000.
Ando, Naotaka, 4,672,275, Cl. 315-368.000.
Aoki, Shinji, 4,668,998, Cl. 360-10.300.
Aoki, Yoshio; and Tsukamura, Yoshihiro, 4,639,907, Cl. 369-45.000.
Araki, Shoji; and Numata, Shinichi, 4,656,387, Cl. 313-389.000.
Araki, Shoji, 4,658,182, Cl. 313-384.000.
Asaida, Takashi, 4,672,430, Cl. 358-37.000.
Baba, Hideyuki; and Mitsumori, Shigeyoshi, 4,703,468, Cl. 369-44.000.
Busby, Bruce E., 4,682,318, Cl. 369-59.000.
Chubachi, Ryoji; Kawamura, Yoshihisa; and Somezawa, Masashi, 4,654,260, Cl. 428-328.000.
Collins, Mark C., 4,698,678, Cl. 358-148.000.
Collins, Mark C., 4,698,698, Cl. 360-10.100.
David, Morgan W. A.; and Hedley, David J., 4,682,217, Cl. 358-89.000.
David, Morgan W. A., 4,703,353, Cl. 358-140.000.
Dodds, Robert E.; Goodwin, David S.; and Patel, Himanshu M., 4,707,426, Cl. 430-25.000.
Doi, Toshitada; Brandes, Claudia; and Lagadec, Roger, 4,644,546, Cl. 371-49.000.
Eguchi, Takeo, 4,636,873, Cl. 360-8.000.
Emori, Masashi, 4,673,145, Cl. 242-198.000.
Fujita, Masahiro, 4,651,327, Cl. 375-1.000.
Fukami, Tadashi; and Odaka, Kentaro, 4,688,225, Cl. 371-37.000.
Fukuda, Tokuya; Ishizuka, Shigeki; and Yamashita, Noriyuki, 4,689,580, Cl. 330-306.000.
Fukuda, Tokuya, 4,709,275, Cl. 358-310.000.
Furukawa, Shunsuke; Suzuki, Tadao; and Monen, Marinus J. B. M., 4,641,295, Cl. 369-32.000.
Furuya, Tsuneo; and Hori, Katsuya, 4,644,544, Cl. 371-37.000.
Furuya, Tsuneo; and Inazawa, Yoshizumi, 4,682,312, Cl. 369-32.000.
Goto, Hideaki; and Ninomiya, Ichiro, 4,635,144, Cl. 360-72.200.
Gouda, Seiichi, 4,672,471, Cl. 358-341.000.
Hachimori, Takeshi, 4,638,239, Cl. 323-281.000.
Hagita, Shoji; and Kakuyama, Shinji, 4,651,230, Cl. 358-314.000.
Hamasaki, Masaharu, 4,660,064, Cl. 357-24.000.
Hara, Masaru, 4,638,388, Cl. 360-18.000.
Harada, Masayuki, 4,672,498, Cl. 360-132.000.
Hasegawa, Norio; Fujino, Toyomi; and Matsubara, Susumu, 4,701,900, Cl. 369-36.000.
Hata, Katsuhiko; and Yamakami, Takahiko, 4,639,640, Cl. 315-3.000.
Hata, Katsuhiko; Ohashi, Hisao; Honda, Keiji; and Yamakami, Takahiko, 4,682,962, Cl. 445-5.000.
Hayafuji, Yoshinori, 4,703,256, Cl. 324-71.300.
Hayakawa, Masatoshi; Aso, Koichi; Ochiai, Yoshitaka; Matsuda, Hideki; Hayashi, Kazuhiko; Ishikawa, Wataru; and Iwasaki, You, 4,707,417, Cl. 428-630.000.
Hayashi, Hisao; Morita, Yasushi; and Noda, Mitsunari, 4,651,674, Cl. 118-728.000.
Hayashi, Kazuhiko; Ochiai, Yoshitaka; Hayakawa, Masatoshi; Matsuda, Hideki; Ishikawa, Wataru; Iwasaki, You; and Aso, Koichi, 4,640,871, Cl. 428-611.000.
Hayashi, Masatake, 4,678,962, Cl. 313-383.000.
Hayashi, Toshihide; Kanayama, Ikuo; and Kanno, Masayoshi, 4,691,351, Cl. 380-10.000.
Hayashi, Toshihide; Yamakami, Osamu; and Kanayama, Ikuo, 4,710,972, Cl. 455-179.000.
Hedley, David J.; and David, Morgan W. A., 4,689,677, Cl. 358-160.000.
Higashiyama, Mitsuo, 4,679,225, Cl. 379-62.000.
Higuchi, Kunio; Miyazono, Shunichi; and Toyoguchi, Tsutomu, 4,674,080, Cl. 369-77.200.
Hirata, Shoji, 4,716,132, Cl. 437-228.000.
Hirayama, Shoji; and Inada, Mitsuharu, 4,639,549, Cl. 379-62.000.
Hirosaki, Yukihiro; Koike, Seiji; Hamada, Motonobu; Ohhata, Takahiko; Inoue, Yasuo; Karibe, Haruyuki; and Hama, Hideki, 4,671,844, Cl. 156-542.000.
Honma, Hideo; and Sato, Nobuyuki, 4,651,312, Cl. 369-10.000.
Hori, Katsuya; and Fujita, Masahiro, 4,689,626, Cl. 342-357.000.
Horikawa, Kenichi; Yamamoto, Yoshinori; and Kawakami, Kenji, 4,644,433, Cl. 360-132.000.
Hoshino, Masaaki; and Kawakami, Itaru, 4,689,669, Cl. 358-80.000.
Hosono, Takashi; and Tohyama, Akira, 4,636,843, Cl. 358-67.000.
Ida, Mitsuru; and Shimada, Minoru, 4,661,865, Cl. 360-96.600.
Ida, Mitsuru, 4,701,816, Cl. 360-96.400.
Iguchi, Yukinobu; Murakami, Kanemitsu; and Kikuchi, Masahiro, 4,703,223, Cl. 313-414.000.
Ikeda, Yasunari; Nakano, Hiroshi; and Yuchi, Hirofumi, 4,672,446, Cl. 358-140.000.
Imakoshi, Shigeyoshi; Soda, Yutaka; Suyama, Hideo; and Iida, Yasuhiro, 4,679,107, Cl. 360-113.000.
Imakoshi, Shigeyoshi; Fukuyama, Munekatsu; Suyama, Hideo; and Souda, Yutaka, 4,691,259, Cl. 360-113.000.
Imakoshi, Shigeyoshi; Soda, Yutaka; and Suyama, Hideo, 4,695,908, Cl. 360-119.000.
Imakoshi, Shigeyoshi; Suyama, Hideo; Soda, Yutaka; Fukuyama, Munekatsu; and Iida, Yasuhiro, 4,703,378, Cl. 360-113.000.
Inashima, Satoshi; Terada, Kiyoshi; Wakabayashi, Hideo; and Tanaka, Yoshiharu, 4,689,684, Cl. 358-190.000.
Inazawa, Yoshizumi; Takahashi, Toshihiko; Tani, Toshiyuki; and Satomura, Shigeyuki, 4,641,208, Cl. 360-72.200.
Ishidoh, Takanobu; and Kondoh, Yoshiyuki, 4,710,921, Cl. 370-110.100.
Ishige, Masafumi; Kanemoto, Yoshitaka; Yokoyama, Tamio; and Sato, Ichitaro, 4,661,842, Cl. 358-36.000.
Ishihara, Mitsugu; and Machida, Yukihiko, 4,713,702, Cl. 360-79.000.
Ishii, Takayuki; and Yamauchi, Yuji, 4,635,457, Cl. 72-66.000.
Ishikawa, Fumio; and Tanaka, Kuninobu, 4,645,946, Cl. 307-261.000.
Ishikawa, Nobuyuki, 4,654,607, Cl. 332-31.00T.
Ishikawa, Yoshirou; Ohta, Kazuyuki; and Mitsuhashi, Shinobu, 4,647,815, Cl. 315-3.000.
Ito, Seigo; and Murakami, Yoshikazu, 4,636,756, Cl. 333-202.000.
Ito, Seigo; and Murakami, Yoshikazu, 4,701,729, Cl. 333-219.000.
Ito, Takamasa, 4,673,357, Cl. 434-311.000.
Ito, Yujiro; Kamatsu, Yasutoshi; and Otobe, Takashi, 4,692,721, Cl. 333-109.000.
Iwasawa, Susumu, 4,649,453, Cl. 360-137.000.
Iwase, Sumio, 4,694,485, Cl. 379-62.000.
Kadomura, Shingo, 4,654,114, Cl. 156-643.000.
Kakizaki, Takehiro; and Araki, Shoji, 4,698,558, Cl. 315-383.000.
Kakizaki, Takehiro; Araki, Shoji; and Numata, Shinichi, 4,707,634, Cl. 313-432.000.
Kaminaga, Kouzou, 4,677,459, Cl. 358-19.000.
Kamon, Yoshiyuki; Yamagishi, Makoto; and Watanabe, Shingo, 4,646,872, Cl. 181-129.000.
Kani, Tetsuo, 4,688,111, Cl. 360-36.200.
Kanno, Masayoshi; Hideshima, Yasuhiro; Tsurumaru, Shinobu; and Kanayama, Ikuo, 4,691,236, Cl. 358-181.000.
Kato, Hiroshi; Chiba, Tomosuke; and Kikuchi, Masahiro, 4,634,918, Cl. 313-36.000.
Kato, Hiroshi; Kojima, Toshihisa; and Yamazaki, Kazuo, 4,651,053, Cl. 313-466.000.
Kato, Shinichiro; Chiba, Teruo; and Igarashi, Tadao, 4,646,188, Cl. 360-132.000.
Kato, Yoji; Watanabe, Seiichi; and Wada, Masaru, 4,695,862, Cl. 357-36.000.
Katoku, Takashi, 4,654,740, Cl. 360-132.000.
Kawada, Hideaki, 4,698,713, Cl. 360-132.000.
Kawada, Hideaki; Ike, Kazuo; Nemoto, Tsuneo; and Omori, Kiyoshi, 4,703,384, Cl. 360-132.000.
Kawakami, Hiroshi; and Ishizaka, Kazuo, 4,712,143, Cl. 358-311.000.
Kawana, Takahiro; and Yokoyama, Norio, 4,696,862, Cl. 428-336.000.
Kikuchi, Masafumi; and Sakamoto, Hiroshi, 4,673,984, Cl. 358-190.000.
Kikuchi, Masafumi; Onodera, Toshio; Toyama, Sumio; and Sakamoto, Hiroshi, 4,679,091, Cl. 358-242.000.
Kikuchi, Masafumi, 4,682,087, Cl. 315-387.000.
Kikuchi, Masahiro; Kobori, Yuzuru; and Murakami, Kanemitsu, 4,649,318, Cl. 313-449.000.
Kimura, Shuichi, 4,698,796, Cl. 369-44.000.
Kita, Hiroyuki; Tokuhara, Masaharu; and Kawashima, Hiroyuki, 4,668,974, Cl. 358-11.000.
Kitazato, Naohisa; and Hamada, Osamu, 4,661,982, Cl. 381-103.000.
Kobayashi, Naotake; Abe, Tetsuya; Shinohara, Satoru; and Fujiwara, Yoshio, 4,651,645, Cl. 101-470.000.
Kobayashi, Naotake; Abe, Tetsuya; Satoru, Shinohara; and Fujiwara, Yoshio, 4,666,320, Cl. 400-241.100.
Kobayashi, Naotake; Abe, Tetsuya; and Fujiwara, Yoshio, 4,668,560, Cl. 428-195.000.
Kojima, Yuichi; Fujita, Etsumi; and Hideshima, Yasuhiro, 4,646,327, Cl. 375-60.000.

Komatsu, Kousuke; Miyauchi, Tsutomu; Misao, Ikuo; Kimura, Mutsumi; Fujiwara, Tadashi; Tsuchida, Yoshio; and Kuroiwa, Junko, 4,646,134, Cl. 358-11.000.
Komuro, Toshio, 4,641,293, Cl. 369-6.000.
Kondo, Tetsujiro, 4,661,846, Cl. 358-165.000.
Kondo, Tetsujiro, 4,677,476, Cl. 358-105.000.
Kondo, Tetsujiro, 4,703,351, Cl. 358-135.000.
Kondo, Tetsujiro, 4,703,352, Cl. 358-135.000.
Kondo, Tetsujiro, 4,710,811, Cl. 358-135.000.
Kondoh, Yoshiyuki; and Ishidoh, Takanobu, 4,656,629, Cl. 370-85.000.
Kuboniwa, Shigeo; Okada, Hideki; and Tamura, Michio, 4,689,520, Cl. 313-568.000.
Kubota, Ichiro; and Toyoshima, Masakatsu, 4,635,274, Cl. 375-1.000.
Kubota, Tatsuya; and Takanashi, Kenji, 4,698,676, Cl. 358-140.000.
Kumagai, Toru; and Kosugi, Yoshihiro, 4,706,108, Cl. 358-10.000.
Kumamoto, Kenichiro; Sato, Akira; Ohya, Koichi; and Matsuda, Koichi, 4,691,378, Cl. 455-301.000.
Kume, Hisao; Nishihara, Tokihiro; Shirasaka, Hiroharu; Kanehira, Kenichi; and Saita, Koji, 4,682,965, Cl. 445-37.000.
Kurashige, Masafumi; and Ota, Yoshiyuki, 4,668,985, Cl. 358-134.000.
Kuroda, Masayuki, 4,669,019, Cl. 360-130.240.
Kusaka, Satoshi, 4,639,790, Cl. 358-293.000.
Kuwabara, Shinichiro, 4,709,417, Cl. 455-611.000.
Lumsden, John L., 4,659,981, Cl. 322-356.000.
Machida, Tetsuo; and Ozawa, Kazuo, 4,706,149, Cl. 360-132.000.
Maeda, Satoru; and Noguchi, Yasushi, 4,660,190, Cl. 371-36.000.
Maeda, Satoru; and Motoki, Kazuo, 4,677,432, Cl. 340-728.000.
Maeda, Satoru; and Tao, Akihiko, 4,691,340, Cl. 379-96.000.
Maeda, Satoru, 4,712,099, Cl. 340-703.000.
Makino, Yoshimi; Ochiai, Yoshitaka; Uedaira, Satoru; Hotai, Kazuhide; Aso, Koichi; and Hayakawa, Masatoshi, 4,639,278, Cl. 148-108.000.
Matsuzaki, Atsushi; and Saito, Mitsumasa, 4,703,345, Cl. 358-74.000.
Meguro, Hiroshi, 4,646,190, Cl. 360-132.000.
Meguro, Niroshi, 4,683,510, Cl. 360-132.000.
Minami, Toshihiko; Umezawa, Isao; and Shintani, Kenji, 4,669,071, Cl. 369-44.000.
Mogi, Takao; and Morizono, Masahiko, 4,701,870, Cl. 364-580.000.
Mogi, Takao; and Morizono, Masahiko, 4,706,186, Cl. 364-136.000.
Morgan, Donald E., 4,635,096, Cl. 358-10.000.
Mori, Hiroshi, 4,693,564, Cl. 350-357.000.
Mori, Toshio, 4,657,350, Cl. 350-400.000.
Morita, Kazuyuki; and Otsuka, Toru, 4,694,456, Cl. 371-38.000.
Motoyama, Tadashi, 4,638,375, Cl. 358-338.000.
Murakami, Yoshikazu; Ito, Seigo; Okamoto, Hiromi; and Tanaka, Hideo, 4,679,015, Cl. 333-219.000.
Murakami, Yoshikazu; Ito, Seigo; and Yamada, Toshiro, 4,704,739, Cl. 455-325.000.
Murayama, Kazuo, 4,636,878, Cl. 360-71.000.
Musha, Kazuhiko; Tago, Kohichi; and Kato, Hidetoshi, 4,641,196, Cl. 358-246.000.
Nagai, Yasuo; and Abe, Fumiyoshi, 4,694,234, Cl. 318-603.000.
Nagasawa, Tomonori; and Ushijima, Hisashi, 4,645,983, Cl. 315-370.000.
Nagaura, Toru, 4,687,716, Cl. 429-145.000.
Nakada, Yasuo, 4,690,549, Cl. 356-4.000.
Nakagawa, Kenzo; and Suzuki, Masayuki, 4,688,206, Cl. 369-291.000.
Nakamizo, Hiromitsu; and Mochida, Takashi, 4,695,795, Cl. 324-208.000.
Nakamura, Akira; Oinoue, Hiroshi; Ishida, Tomoyuki; and Shintani, Kenji, 4,709,139, Cl. 250-201.000.
Nakamura, Yoshiyuki; Kato, Tetsuro; and Ebihara, Norio, 4,641,202, Cl. 358-313.000.
Nakano, Kenji; and Moriwaki, Hisayoshi, 4,641,309, Cl. 371-31.000.
Nakatsuyama, Takashi; and Ito, Akashi, 4,656,617, Cl. 369-45.000.
Narabu, Tadakuni; and Sato, Maki, 4,660,176, Cl. 365-183.000.
Nemoto, Tsuneo; and Sawa, Tetsuo, 4,644,435, Cl. 360-133.000.
Nemoto, Tsuneo, 4,678,138, Cl. 242-198.000.
Ninomiya, Ichiro; Kizu, Soujiro; and Sashoh, Hidehiko, 4,709,277, Cl. 360-14.300.
Ninomiya, Yoshinobu; Somezawa, Masashi; and Oiyama, Kiyokazu, 4,634,633, Cl. 428-425.900.
Ninomiya, Yoshinobu; Somezawa, Masashi; and Oiyama, Kiyokazu, 4,637,959, Cl. 428-425.900.
Ninomiya, Yoshinobu; Muroyama, Masakazu; Sugiyama, Masayoshi; and Hashimoto, Akira, 4,656,089, Cl. 428-327.000.
Nishimura, Kazuhisa; Yoshihiro, Mitsugu; Sakai, Masaaki; and Hataoka, Seiichi, 4,698,703, Cl. 360-73.000.
Noguchi, Takashi; Hayashi, Hisao; and Ohshima, Takefumi, 4,693,759, Cl. 437-24.000.
Numata, Norio, 4,650,928, Cl. 379-62.000.
Oba, Seisuke; Mikami, Tsutomu; Suzuki, Hideyuki; Shimada, Mitsuhiro; and Suzuki, Tadashi, 4,706,141, Cl. 360-96.500.
Odaka, Kentaro; Fukami, Tadashi; and Ozaki, Shinya, 4,646,171, Cl. 360-32.000.
Odaka, Kentaro, 4,665,447, Cl. 360-77.000.
Odaka, Kentaro; Fukami, Tadashi; and Ozaki, Shinya, 4,669,000, Cl. 360-32.000.
Ohkoshi, Akio; Tsuruta, Koji; Nakagawa, Hideaki; and Shimada, Satoshi, 4,710,765, Cl. 340-781.000.
Ohno, Satoshi; Ichida, Koji; Tomita, Hideo; and Matsuzaki, Atsushi, 4,668,977, Cl. 358-60.000.
Ohsawa, Mitsuo, 4,636,709, Cl. 323-267.000.
Ohta, Teruo, 4,682,322, Cl. 369-291.000.
Ohuchi, Norikazu, 4,678,537, Cl. 156-643.000.
Ohyama, Masao, 4,641,210, Cl. 360-96.500.
Ohyama, Masao, 4,685,008, Cl. 360-85.000.
Ohyama, Masao; Yamamoto, Yoshinori; Horikawa, Kenichi; and Kawakami, Kenji, 4,694,360, Cl. 360-96.500.
Okada, Hiroshi; Takahashi, Takao; and Inoue, Hajime, 4,716,476, Cl. 360-66.000.
Okada, Takashi; Mogi, Takao; Ohmori, Shoji; Tanaka, Yutaka; and Kobayashi, Hiroyuki, 4,635,113, Cl. 358-124.000.
Okada, Takashi; Mogi, Takao; and Mino, Shinjiro, 4,636,855, Cl. 358-124.000.
Okada, Takashi; and Ikeda, Yasunari, 4,651,209, Cl. 358-140.000.
Okada, Takashi; Mogi, Takao; Kobayashi, Hiroyuki; and Ohi, Katsuyuki, 4,679,235, Cl. 350-20.000.
Okada, Takashi; and Mogi, Takao, 4,700,388, Cl. 380-20.000.
Okamura, Kiyohito; Hasegawa, Yoshio; Kuroo, Yoshiyasu; and Ugaji, Masana, 4,696,827, Cl. 427-36.000.
Okanobu, Taiwa, 4,639,659, Cl. 323-224.000.
Okanobu, Taiwa, 4,659,949, Cl. 307-511.000.
Okanobu, Taiwa, 4,703,292, Cl. 334-15.000.
Oki, Ryuji; and Sakai, Tadashi, 4,686,708, Cl. 455-280.000.
Omae, Kazuo; and Okazaki, Hiroshi, 4,701,802, Cl. 358-246.000.
Omori, Takashi; and Sugiki, Hiraku, 4,651,239, Cl. 360-77.000.
Osawa, Akihisa, 4,663,674, Cl. 360-14.100.
Osawa, Eiichi; Tanaka, Masato; Yoshizawa, Mamoru; Nakai, Jun; and Kojima, Yuichi, 4,697,212, Cl. 360-48.000.
Ota, Masuaki, 4,694,121, Cl. 174-68.500.
Otsuka, Toru; and Motoyama, Tadashi, 4,674,078, Cl. 369-44.000.
Saito, Junya; Yamada, Hisafumi; and Tsutsui, Ichiro, 4,667,241, Cl. 358-167.000.
Sakamoto, Akira; Fukami, Takeshi; Sugita, Takehiro; and Toyoshima, Masakatsu, 4,683,586, Cl. 380-48.000.
Sakamoto, Hitoshi, 4,656,529, Cl. 360-10.200.
Sakamoto, Hitoshi; and Okafuji, Takayuki, 4,660,108, Cl. 360-77.000.
Sakamoto, Hitoshi; and Okafuji, Takayuki, 4,698,699, Cl. 360-10.200.
Sakamoto, Satoshi, 4,639,648, Cl. 318-254.000.
Sarugaku, Toshio; Motoe, Hisafumi; Tokuhara, Masaharu; and Hongu, Masayuki, 4,673,983, Cl. 358-183.000.
Sasaki, Shin; Nemoto, Tsuneo; Yamashina, Shuichi; and Uchida, Hiroyuki, 4,646,189, Cl. 360-12.000.
Sasaki, Shin; and Makino, Masahiro, 4,663,688, Cl. 360-132.000.
Sasaki, Takayuki; and Arai, Masaaki, 4,668,988, Cl. 358-166.000.
Sasaki, Takayuki; and Arai, Masaaki, 4,701,871, Cl. 364-718.000.
Sato, Hideo, 4,680,675, Cl. 361-397.000.
Sato, Ichitaro, 4,686,585, Cl. 360-33.100.
Sato, Noboru, 4,640,755, Cl. 204-192.200.
Sato, Noboru; and Tanaka, Tomiji, 4,670,356, Cl. 428-693.000.
Sato, Noboru; Habu, Kazutaka; and Abe, Sanae, 4,710,434, Cl. 428-678.000.
Segawa, Takashi; and Tsuboi, Kunio, 4,707,321, Cl. 264-294.000.
Shibata, Masahiro; Tsujibayashi, Tatsuo; Sato, Hiroyuki; and Machida, Yoshinori, 4,682,245, Cl. 358-311.000.
Shibui, Michiro; Hanamoto, Yoshihiro; Ishigaki, Yoshio; Sahara, Hiroshi; Maeda, Satoru; and Noguchi, Yasushi, 4,694,406, Cl. 364-518.000.
Shimada, Satoshi; Kitamura, Nobuo; Shikakura, Kunio; and Maeda, Namio, 4,683,491, Cl. 358-56.000.
Shimada, Satoshi; and Watanabe, Yuji, 4,686,575, Cl. 358-240.000.
Shimamura, Toshiki; and Hayakawa, Kiyonori, 4,635,153, Cl. 360-125.000.
Shimpuku, Yoshihide, 4,646,169, Cl. 360-21.000.
Shinkai, Kinya, 4,635,106, Cl. 358-68.000.
Shinkai, Mitsutoshi, 4,697,256, Cl. 369-32.000.
Shinkai, Mitsutoshi, 4,700,334, Cl. 369-44.000.
Shionoya, Toshio; and Tsuboi, Takashi, 4,665,345, Cl. 315-169.400.
Shionoya, Toshio, 4,696,550, Cl. 350-351.000.
Shionoya, Toshio, 4,716,406, Cl. 340-814.000.
Shirai, Toshio, 4,698,700, Cl. 360-16.000.
Shiratori, Kazuhide, 4,664,337, Cl. 242-199.000.
Shirota, Norihisa; Yamazaki, Takao; and Iwase, Seiichiro, 4,677,499, Cl. 358-339.000.
Shirota, Norihisa, 4,697,248, Cl. 364-754.000.
Shoji, Norio; and Takeda, Masashi, 4,714,841, Cl. 307-455.000.
Sigiki, Hiraku; Yamada, Makoto; and Miyamori, Shinji, 4,714,971, Cl. 360-77.000.
Soda, Yutaka; Imamura, Hideko; Uchida, Hiroyuki; and Sekiya, Tetsuo, 4,713,710, Cl. 360-121.000.
Sone, Masakazu; and Nakajima, Takeshi, 4,679,953, Cl. 400-625.000.
Soneda, Mitsuo; and Hazama, Yoshikazu, 4,694,341, Cl. 358-160.000.
Souda, Yutaka; Imakoshi, Shigeyoshi; Suyama, Hideo; Uchida, Hiroyuki; Iida, Yasuhiro; and Sekiya, Tetsuo, 4,673,999, Cl. 360-113.000.
Sugawara, Kokichi; and Matsuzaka, Takayoshi, 4,698,714, Cl. 360-133.000.
Sugiki, Hiraku; Odaka, Kentaro; Satake, Tomoji; Ohmori, Takashi; and Yamada, Makoto, 4,656,539, Cl. 360-77.000.
Sugiki, Mikio, 4,654,838, Cl. 369-46.000.

Suma, Tetsuro; Abe, Takao; and Ogawa, Tetsuo, 4,680,763, Cl. 371-37.000.
Suma, Tetsuro, 4,716,565, Cl. 371-31.000.
Sumiyoshi, Hiroji; and Arae, Teiji, 4,641,059, Cl. 313-477.00R.
Suyama, Hideo; Imakoshi, Shigeyoshi; Soda, Yutaka; Fuse, Takeyuki; Abe, Iwao; and Wakabayashi, Noboru, 4,673,999, Cl. 360-125.000.
Suzuki, Katsuhiro, 4,692,831, Cl. 360-133.000.
Suzuki, Tadao; Sako, Yoichiro; Furukawa, Shunske; Furuya, Tsuneo; and Baggen, Constant P. M. J., 4,680,764, Cl. 371-40.000.
Suzuki, Tadao; Nakamura, Shoichi; Nishioka, Hisao; and Ohkubo, Yutaka, 4,707,818, Cl. 369-59.000.
Tagawa, Susumu; Araki, Shoji; and Numata, Shinichi, 4,651,050, Cl. 313-390.000.
Tajima, Shigeru; and Nakabayashi, Toshiya, 4,638,223, Cl. 318-254.000.
Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.
Takahashi, Toshihiko; Inazawa, Yoshizumi; Tani, Toshiyuki; and Satomura, Shigeyuki, 4,688,115, Cl. 360-70.000.
Takahashi, Toshihiko; and Kawada, Hirohito, 4,688,116, Cl. 360-72.200.
Takamatsu, Ryoji, 4,638,386, Cl. 360-96.500.
Takashima, Mitsuru, 4,643,522, Cl. 350-255.000.
Takei, Shinzo; Yokoyama, Junji; and Takagi, Makoto, 4,640,700, Cl. 65-59.220.
Takeshita, Kaneyoshi, 4,638,361, Cl. 358-213.000.
Takeshita, Kaneyoshi; and Hashimoto, Takeo, 4,663,771, Cl. 377-58.000.
Takikawa, Kei; and Kanemaki, Hirofumi, 4,656,468, Cl. 340-744.000.
Tamada, Hitoshi; Kaneko, Masahiko; Okamoto, Tsutomu; and Yamada, Toshiro, 4,642,795, Cl. 365-10.000.
Tamaki, Isao, 4,634,386, Cl. 434-323.000.
Tamaki, Isao, 4,644,425, Cl. 360-69.000.
Tamura, Eiji, 4,712,187, Cl. 364-571.000.
Tamura, Shinichiro; and Seto, Junetsu, 4,693,962, Cl. 430-345.000.
Tamura, Takahiko; and Sengoku, Yoshinari, 4,692,793, Cl. 358-29.000.
Tanaka, Hiroshi; and Fukehara, Shinsuke, 4,694,354, Cl. 358-296.000.
Tanaka, Masanobu; and Tani, Takeru, 4,661,994, Cl. 455-157.000.
Tanaka, Masato, 4,665,443, Cl. 360-7.000.
Tanaka, Masato; and Himeno, Takuji, 4,672,363, Cl. 340-347.0DD.
Tanaka, Sadaaki; and Ushijima, Hisashi, 4,638,363, Cl. 358-219.000.
Tanaka, Yoshinori, 4,675,758, Cl. 360-75.000.
Tanaka, Yutaka; and Umemura, Shunji, 4,694,330, Cl. 358-27.000.
Taniyama, Seiro, 4,677,421, Cl. 340-347.0DD.
Tatami, Mitsushige, 4,635,097, Cl. 358-13.000.
Tatami, Mitsushige, 4,679,005, Cl. 331-16.000.
Tatami, Mitsushige, 4,680,658, Cl. 360-36.200.
Tateyama, Norihiro; Yamazaki, Kazuo; Kato, Hiroshi; and Teshima, Haruhito, 4,707,635, Cl. 313-466.000.
Terayama, Yasunori; Nakamura, Masashi; Fujiie, Kazuhiko; and Yoshitoshi, You, 4,687,296, Cl. 350-247.000.
Tomioka, Masao; Okada, Takashi; and Mogi, Takao, 4,635,112, Cl. 358-122.000.
Tonomura, Masashi, 4,654,633, Cl. 340-347.0DD.
Toyosawa, Masao, 4,646,280, Cl. 369-50.000.
Toyoshima, Masakatsu; Hideshima, Yasuhiro; and Fujita, Etsumi, 4,684,981, Cl. 358-86.000.
Tsuchiya, Satoshi; Aoyagi, Minoru; and Kuniyoshi, Yasunobu, 4,646,161, Cl. 358-29.000.
Tsukada, Keizo; and Yamagata, Masato, 4,650,931, Cl. 379-61.000.
Tsukahara, Nobuhiko, 4,697,216, Cl. 360-97.000.
Tsukamura, Yoshihiro; Morimoto, Toshiro; Kubo, Matayasu; and Mukai, Masataka, 4,660,189, Cl. 369-32.000.
Tsudaira, Satoru; Yamanoi, Hiroshi; Yamaguchi, Takashi; Suzuki, Masayuki; and Tamura, Hidemasa, 4,677,083, Cl. 423-598.000.
Tsuno, Masahiro; and Naito, Takashi, 4,653,039, Cl. 369-75.200.
Tsuthara, Tsunenobu; Mitsuhashi, Takamichi; and Ueno, Takehiko, 4,689,550, Cl. 323-354.000.
Tsunezu, Mitsuo, 4,703,508, Cl. 381-188.000.
Tsuabe, Tetsuo; and Kojima, Shigeru, 4,639,722, Cl. 340-784.000.
Tsuabe, Tetsuo; Sugiki, Mikio; and Usui, Hiroya, 4,653,867, Cl. 350-351.000.
Tsuata, Kaoru, 4,689,695, Cl. 358-314.000.
Tsuayama, Kiyoshi, 4,697,702, Cl. 206-387.000.
Tsuchi, Shigeaki, 4,647,828, Cl. 318-603.000.
Tsuchi, Shigeaki, 4,652,799, Cl. 318-314.000.
Tsuda, Masaru; and Kato, Yoji, 4,698,122, Cl. 156-625.000.
Tsukabayashi, Noboru; Akiyama, Katsuhiko; Soda, Yutaka; and Uchida, Hiroyuki, 4,642,716, Cl. 360-104.000.
Tsunabe, Toshihiro; and Meguro, Hiroshi, 4,714,213, Cl. 242-198.000.
Tsunabe, Toshiro; Ohzeki, Minoru; and Toyama, Takashi, 4,646,143, Cl. 358-60.000.
Tsunabe, Yuji; and Endoh, Yasuyuki, 4,649,432, Cl. 358-241.000.
Tsunabe, Yuji, 4,682,239, Cl. 358-241.000.
Tsunkinson, James H.; and Gillard, Clive H., 4,638,380, Cl. 360-22.000.
Tsunkinson, James H.; Ive, John G. S.; and Boreland, Peter C., 4,656,514, Cl. 358-160.000.
Wilkinson, James H.; and Boreland, Peter C., 4,660,103, Cl. 360-18.000.
Wilkinson, James H.; and Boreland, Peter C., 4,675,735, Cl. 358-160.000.
Wilkinson, James H., 4,680,766, Cl. 371-47.000.
Wilkinson, James H., 4,689,697, Cl. 360-19.100.
Williams, Kenneth E.; Frutiger, William A.; and Hall, Kenneth E., 4,634,921, Cl. 313-342.000.
Yada, Hiroaki; Imakoshi, Shigeyoshi; Suyama, Hideo; Sekiya, Tetsuo; and Nakayama, Masayuki, 4,701,815, Cl. 360-77.000.
Yamagawa, Masato; and Tsukada, Keizo, 4,639,550, Cl. 379-62.000.
Yamaguchi, Takashi; Nagasawa, Naomi; and Tamura, Hidemasa, 4,639,400, Cl. 428-694.000.
Yamaguchi, Takashi; Nagasawa, Naomi; and Tamura, Hidemasa, 4,650,726, Cl. 428-694.000.
Yamaji, Kazunori; Nakamura, Takashi; and Kihara, Taku, 4,677,464, Cl. 358-41.000.
Yamakawa, Yoshifumi, 4,682,231, Cl. 358-168.000.
Yamamoto, Isamu; and Naito, Masao, 4,700,221, Cl. 358-44.000.
Yamamoto, Kaichi, 4,672,480, Cl. 360-32.000.
Yamamoto, Tadashi, 4,654,485, Cl. 379-73.000.
Yamamoto, Tadashi, 4,710,950, Cl. 379-70.000.
Yamanoi, Hiroshi; Uedaira, Satoru; Suzuki, Masayuki; and Tamura, Hidemasa, 4,668,500, Cl. 423-598.000.
Yamanouchi, Hiroshi, 4,656,544, Cl. 360-97.000.
Yamashita, Noriyuki, 4,675,616, Cl. 330-84.000.
Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, 4,671,828, Cl. 148-309.000.
Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, 4,683,012, Cl. 148-301.000.
Yamazaki, Jun; and Ito, Yukio, 4,696,879, Cl. 430-24.000.
Yamazaki, Minoru; and Kori, Teruhiko, 4,677,504, Cl. 360-77.000.
Yamazaki, Takao; and Iwase, Seiichiro, 4,706,211, Cl. 364-760.000.
Yamoto, Hisayoshi; and Suzuki, Hideo, 4,702,937, Cl. 437-233.000.
Yasuda, Hiroshi; Ohnishi, Kanji, Yokoya, Satoshi; and Strom, Jon, 4,700,377, Cl. 379-88.000.
Yasuda, Yukihiro; Yoshioka, Hiroshi; and Takahashi, Takao, 4,658,309, Cl. 360-77.000.
Yokoyama, Yoshihiro; Kamon, Yoshiyuki; and Kakiuchi, Tsutomu, 4,668,842, Cl. 381-183.000.
Yoshida, Tadao, 4,685,098, Cl. 369-59.000.
Yoshihiro, Mitsugu, 4,663,555, Cl. 310-317.000.
Yoshinaka, Tadaaki, 4,677,497, Cl. 358-310.000.
Yoshinaka, Tadaaki; Fujita, Tadao; and Yoshida, Teruyuki, 4,700,239, Cl. 358-310.000.
Yoshinaka, Tadaaki, 4,709,276, Cl. 358-326.000.
Yoshinaka, Tadaaki; and Inoue, Takao, 4,714,954, Cl. 358-19.000.
Yoshinaka, Tadaaki; Inoue, Takao; and Tomita, Kazuo, 4,714,965, Cl. 358-320.000.

Sony Magnescale Incorporation: *See*—
Himuro, Kiyoshi; Narimatsu, Akihisa; Mibu, Katsutoshi; and Yoshioka, Takamoto, 4,663,588, Cl. 324-207.000.
Nagaoka, Kazuo; Isobe, Tomoichi; Kanasugi, Toshihiko; Suzuki, Nobuyuki; Wakabayashi, Sadao; Uchida, Kenji; Tsukamoto, Hideharu; Ohno, Mitsuru; and Shimano, Tadahiko, 4,649,648, Cl. 33-125.00R.
Taniguchi, Kayoko; Tsuchiya, Hideki; and Toyama, Masaaki, 4,676,645, Cl. 356-356.000.

Sony/Tektronix Corporation: *See*—
Miki, Yasuhiko; and Takita, Kentaro, 4,692,886, Cl. 364-718.000.

Soo, Hwaili; and Robson, John H., to Union Carbide Corporation. Process for the production of alkylene glycols with metalate-containing solids. 4,701,571, 10-20-87, Cl. 568-867.000.

Sood, Ajay; and Marra, Robert A., to Aluminum Company of America. Production of high purity substantially spherical metal hydroxide/oxide particles from the hydrolysis of a metal alkoxide aerosol using metal hydroxide/oxide seed nuclei. 4,678,657, 7-7-87, Cl. 423-600.000.

Sood, Lal C., to Motorola, Inc. High speed equalization in a memory. 4,712,197, 12-8-87, Cl. 365-230.000.

Sood, Ratan S.: *See*—
Aretz, Werner; Berscheid, Hans G.; Huber, Gerhard; Fehlhaber, Hans-Wolfram; Kraemer, Hans P.; Sedlacek, Hans-Harald; Ganguli, Bimal N.; Sood, Ratan S.; Gandhi, Julia; and Reddy, Gauknapalli C., 4,713,371, Cl. 514-34.000.

Soodak, Charles I.: *See*—
Gould, Gordon; Soodak, Charles I.; and Thompson, Robert E., 4,651,917, Cl. 228-173.500.

Soodalter, Arnold. Portioning, shaping and dispensing apparatus. 4,712,272, 12-15-87, Cl. 17-32.000.

Soon-Fu, Hwang. Combination tire inflator, gauge and deflator. 4,658,869, 4-21-87, Cl. 141-98.000.

Soong, David S.: *See*—
Caneba, Gerard T. M.; and Soong, David S., 4,659,470, Cl. 210-500.210.

Soos, Gyongyver: *See*—
Keve, Tibor; Zsadon, Bela; Fekete, Gyorgy; Galambos, Janos; Barta nee Bukovecz, Margit; Szporny, Laszlo; Forgacs, Lilla; Kiraly, Arpad; Soos, Gyongyver; Kiss, Bela; and Zajer nee Balazs, Maria, 4,680,397, Cl. 546-51.000.

Soots, Georges: *See*—
Pieronne, Alain; Soots, Georges; Logier, Regis; and Delecroix, Michel, 4,662,355, Cl. 128-1.00D.

Soper, William G., to United States of America, Navy. Gas actuated gun system for launching a projectile. 4,644,843, 2-24-87, Cl. 89-7.000.

Sopher, David W.: *See*—
Meurs, Jan H. H.; and Sopher, David W., 4,663,487, Cl. 568-362.000.
Sophisticated Signals and Circuits: *See*—
Halpern, Peter H.; Mallory, Peter E.; Haug, Paul E.; and Koos, William M., Jr., 4,649,549, Cl. 380-32.000.
Sophus Berendsen Marine A/S: *See*—
Sandreid, Alf J., 4,669,582. Cl. 188-65.100.
Sophysa: *See*—
Marion, Bernard, 4,673,384, Cl. 604-10.000.
Soporowski, Andrzej L., to Esselte Pendaflex Corporation. Sign holder. 4,698,928, 10-13-87, Cl. 40-16.400.
Soprema S.A.: *See*—
Geisen, Pierre; Reillaudoux, Jean-Claude; and Ducret, Bernard, 4,680,913, Cl. 52-746.000.
Soptei, Csaba: *See*—
Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.
Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko ; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.
SOR, Inc.: *See*—
Priest, Wayne A., 4,637,258, Cl. 73-716.900.
Sorber, Robert, to Duke Power Company. Radiation dose rate measuring device. 4,644,167, 2-17-87, Cl. 250-374.000.
Soref, Richard A., to United States of America, Air Force. Wavelength dependent, tunable, optical time delay system for electrical signals. 4,671,604, 6-9-87, Cl. 350-96.150.
Soref, Richard A., to United States of America, Air Force. Length dependent, optical time delay/filter device for electrical signals. 4,671,605, 6-9-87, Cl. 350-96.150.
Soref, Richard A.; and Lorenzo, Joseph P., to United States of America, Air Force. Optically controlled integrated optical switch. 4,693,547, 9-15-87, Cl. 350-96.130.
Soref, Richard A.: *See*—
Lorenzo, Joseph P.; and Soref, Richard A., 4,693,546, Cl. 350-96.130.
McMahon, Donald H.; and Soref, Richard A., 4,636,636, Cl. 250-227.000.
Yang, Andrew C.; Payne, Richard; and Soref, Richard A., 4,714,314, Cl. 350-96.200.
Sorek, Shmuel: *See*—
Gordon, Tsvi J.; and Sorek, Shmuel, 4,656,946, Cl. 102-438.000.
Gordon, Tsvi J.; and Sorek, Shmuel, 4,656,947, Cl. 102-438.000.
Sorel, Alain, to U.S. Philips Corporation. Electronic circuit constituted by stackable modules. 4,688,864, 8-25-87, Cl. 439-74.000.
Sorell, Louis S.: *See*—
Yaghmaie, Farrokh; Najjar, Mitri S.; and Sorell, Louis S., 4,705,537, Cl. 48-197.00R.
Sorensen, Ejnar. Toilet flush valve. 4,660,232, 4-28-87, Cl. 4-413.000.
Sorensen, Gerald R., to NCM International, Inc. Eyeglass merchandizing display. 4,671,416, 6-9-87, Cl. 211-13.000.
Sorensen, Gerald R.: *See*—
Gradecki, Raymond J.; McLaughlin, James M.; and Sorensen, Gerald R., 4,697,710, Cl. 211-45.000.
Hornblad, Richard P.; and Sorensen, Gerald R., 4,640,029, Cl. 40-5.000.
Sorensen, H. Rahbek; and Woien, Arne. Heart valve. 4,676,789, 6-30-87, Cl. 623-2.000.
Sorensen, Jay R.; and LaPerna, Joseph D., to SpaceLabs, Inc. Ambulatory blood pressure apparatus. 4,706,684, 11-17-87, Cl. 128-677.000.
Sorensen, Jens O., to Primtec. Hollow stackable plastic products. 4,657,141, 4-14-87, Cl. 206-519.000.
Sorensen, Jens R.: *See*—
Thorsen, Niels P.; Jessen, Gilbert W.; Thomsen, Erik; and Sorensen, Jens R., 4,706,467, Cl. 62-139.000.
Sorensen, Kai O.: *See*—
Krogsrud, Jens C.; and Sorensen, Kai O., 4,683,526, Cl. 362-346.000.
Sorensen, Peter: *See*—
Sonneborn, Siegfried; Handel, Manfred; Mack, Ernst; Gerstrom, Carl F.; and Sorensen, Peter, 4,654,931, Cl. 16-337.000.
Sorensen, Robert K.; and Seaton, Starling, to Dresser Industries, Inc. Hardening of selected areas of an earth boring rockbit. 4,660,444, 4-28-87, Cl. 76-108.00A.
Sorenson, Blaine: *See*—
Frazier, Stanley J.; and Sorenson, Blaine, 4,711,282, Cl. 182-106.000.
Sorenson, Gary D.: *See*—
Janssen, Robert A.; and Sorenson, Gary D., 4,642,246, Cl. 427-127.000.
Sorenson, James A.: *See*—
Kruger, Robert A.; and Sorenson, James A., 4,644,575, Cl. 378-99.000.
Sorenson, John R. J., to International Copper Research Association, Inc. Organic copper complexes as radioprotectants. 4,657,928, 4-14-87, Cl. 514-499.000.
Sorenson, John R. J., to International Copper Research Association, Inc. Method for treating convulsions and epilepsy with organic copper compounds. 4,670,428, 6-2-87, Cl. 514-184.000.
Sorenson Research Co. Inc.: *See*—
Johnson, Robert H., 4,650,477, Cl. 604-321.000.
Sorenson, Richard W., to Carlingswitch, Inc. Push button switch with compound contact lever action. 4,640,998, 2-3-87, Cl. 200-67.00A.
Sorenson, Richard W., to Carlingswitch, Inc. Rocker switch for sliding or pivoting contact lever. 4,680,435, 7-14-87, Cl. 200-68.200.
Sorenson, Richard W., to Carlingswitch, Inc. Appliance switch. 4,686,336, 8-11-87, Cl. 200-61.620.
Sorenson, Robert E.; and Scriba, John M., Jr., to Knape & Vogt Manufacturing Co. Merchandising tray. 4,694,966, 9-22-87, Cl. 211-88.000.
Sorenson, Wayne P.: *See*—
Manning, James H.; and Sorenson, Wayne P., 4,637,949, Cl. 428-110.000.
Sorg GmbH & Co. KG: *See*—
Pieper, Helmut; Knauer, Adolf; and Sorg, Helmut, 4,687,504, Cl. 65-326.000.
Sorg, Helmut: *See*—
Pieper, Helmut; Knauer, Adolf; and Sorg, Helmut, 4,687,504, Cl. 65-326.000.
Sorg, James D.: *See*—
Reed, Richard K.; Reed, James R.; and Sorg, James D., 4,660,951, Cl. 354-187.000.
Sorge, Gernold: *See*—
Olbrich, Juergen; Biethan, Uwe; and Sorge, Gernold, 4,695,613, Cl. 525-533.000.
Sorgyar, Kobanyai: *See*—
Ress, Piroska; Kiss, Istvan; Miltenyi, Geza; Strahl, Antal; Petro, Imre; Farkas, Jozsef; Biacs, Peter; Kozma, Istvanne; and Debreczeny, Istvan, 4,670,274, Cl. 426-240.000.
Soriano, David S.: *See*—
Van Der Puy, Michael; Soriano, David S.; and Dimmit, Jeffrey H., 4,705,896, Cl. 564-265.000.
Soriaux, Claude: *See*—
Gautier, Jean-Claude; Lecolier, Serge; Soriaux, Claude; and Chevalier, Sammy, 4,666,513, Cl. 75-117.000.
Sorimachi, Haruo: *See*—
Matsuzaki, Toshio; Sorimachi, Haruo; Satoh, Kiyoshi; Suzuki, Takumi; and Sugii, Takeshi, 4,689,638, Cl. 346-76.0PH.
Sorimachi, Kanehiro; and Kawabata, Takashi, to Canon Kabushiki Kaisha. Device for searching objects within wide visual field. 4,660,969, 4-28-87, Cl. 356-1.000.
Sorimachi, Kanehiro; and Tamari, Makoto, to Canon Kabushiki Kaisha. Sheet manipulating apparatus. 4,677,778, 7-7-87, Cl. 40-476.000.
Sorimachi, Kanehiro; and Amitani, Joji, to Canon Kabushiki Kaisha. Actuating device. 4,707,642, 11-17-87, Cl. 318-37.000.
Sorimachi, Kazuaki: *See*—
Tanabe, Hiroshi; Yamamoto, Etsuo; Togashi, Seigo; Sekiguchi, Kanetaka; Aota, Katsumi; and Sorimachi, Kazuaki, 4,673,253, Cl. 350-339.00F.
Togashi, Seigo; Yamamoto, Etsuo; Aota, Katsumi; Tanabe, Hiroshi; Sekiguchi, Kanetaka; and Sorimachi, Kazuaki, 4,655,552, Cl. 350-342.000.
Sorimachi, Mitsuo; and Sato, Mamoru, to Hosiden Electronics Co., Ltd. Two-stage locking push switch. 4,661,667, 4-28-87, Cl. 200-314.000.
Sorin Biomedica S.p.A.: *See*—
Arru, Piero; Bona, Gioachino; Curcio, Maria; and Vallana, Franco, 4,666,442, Cl. 623-2.000.
Sorine, Emile. Apparatus for cold injection molding of glass fiber reinforced composite materials. 4,689,002, 8-25-87, Cl. 425-206.000.
Sorkin, I. Barry: *See*—
Rapoport, David M.; and Sorkin, I. Barry, 4,655,213, Cl. 128-205.250.
Sorlie, Egil: *See*—
Campisi, Carl; Kilinskis, David C.; and Sorlie, Egil, 4,704,517, Cl. 235-382.000.
Sorlien, Mark D.; Filreis, Manuel; and Seim, William J., to Minnesota Mining and Manufacturing Company. Telecommunication service wire connector. 4,657,321, 4-14-87, Cl. 339-14.00R.
Sorlien, Per H.; Helgaker, Iver A.; Halvorsen, Magne; and Rustad, Jan H., to Trygve Liljedahl Skistavfabrikk A/S. Ski pole basket. 4,676,525, 6-30-87, Cl. 280-824.000.
Sorm, Miloslav; Vacha, Jiri; Ulbert, Karel; Jagos, Frantisek; Nespurek, Stanislav; Langpaul, Josef; Skalicky, Stanislav; Kensa, Jaromir; Zvonicek, Miroslav; and Drabek, Oldrich, to Ceskoslovenska Akademie Ved. Double acting mechanical pump liquid atomizer. 4,646,969, 3-3-87, Cl. 239-106.000.
Sornik, Marshall E. Casting mixture comprising china clay, silica and an styrene-acrylic copolymer latex. 4,659,749, 4-21-87, Cl. 523-122.000.
Sorochenko, Oleg A., to Nauchno-Issledovatelsky Institut Obschei i Neotlozhno Khirurgii. Electrosurgical instrument. 4,637,390, 1-20-87, Cl. 128-303.140.
Sorochenko, Oleg A., to Kharkovsky Nauchno-Issledovatelsky Institut Obschei i Neotlozhnoi Khirurgii. Bipolar electrocoagulator. 4,637,392, 1-20-87, Cl. 128-303.130.
Sorochenko, Oleg A., to Nauchno-Issledovatelsky Institute Obshei I Neotlozhnoi Khirugii. Electrosurgical instrument. 4,657,017, 4-14-87, Cl. 128-303.140.
Sorochenko, Oleg A., to Kharkovsky Nauchno-Issledovatelsky Institut Obschei I. Bipolar electrosurgical instrument. 4,671,274, 6-9-87, Cl. 128-303.140.
Sorochenko, Oleg A.; and Kondratiev, Igor F. Electrosurgical instrument. 4,711,239, 12-8-87, Cl. 128-303.140.
Soroi, Kazunori, to Kyocera Corporation. Zirconia type black decorative article and process for production thereof. 4,656,145, 4-7-87, Cl. 501-86.000.
Soroi, Kazunori: *See*—
Nagato, Yoshio; and Soroi, Kazunori, 4,639,426, Cl. 501-96.000.

oroka, Daniel P.; Swensrud, Roger L.; and Zelezniak, Joseph J., to Westinghouse Electric Corp. Two-axis optic wrist for laser applications. 4,710,606, 12-1-87, Cl. 219-121.0LU.

oroka, Daniel P.: *See*—
Antoszewski, Richard S.; and Soroka, Daniel P., 4,684,312, Cl. 414-735.000.
Swensrud, Roger L.; Ziegler, James R.; Soroka, Daniel P.; and Wolfe, Donald L., 4,650,959, Cl. 219-125.100.
Swensrud, Roger L.; White, Mark D.; Janosik, Michael J.; Soroka, Daniel P.; and Zelezniak, Joseph J., 4,659,902, Cl. 219-121.0LU.

orrell, Malcolm E., to Voltarc Tubes, Inc. Lamp base connector assembly. 4,647,137, 3-3-87, Cl. 339-144.00T.

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Ritter, David W., 4,686,693, Cl. 381-73.100.

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Michels, Dennis; Howe, Geoff; and Joseph, Douglas, 4,712,250, Cl. 455-20.000.

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Mortier, Guy; and Chartrain, Jean-Claude, 4,690,596, Cl. 409-143.000.

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Soutar, Larry: *See*—
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South African Inventions Development Corporation: *See*—
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Hourahane, Donald H., 4,672,957, Cl. 128-92.0VD.
Wedlake, Roger J., 4,707,420, Cl. 429-11.000.
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South Bend Controls Inc.: *See*—
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South Bend Lathe, Inc.: *See*—
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Backe, Bengt S.; and Durham, LaMoyne W., 4,706,456, Cl. 60-368.000.
South Louisiana Contractors Inc.: *See*—
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South Park Sales & Mfg., Inc.: *See*—
Pinkney, James, 4,696,595, Cl. 402-54.000.
South Shore Manufacturing, Inc.: *See*—
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South, William H., to Westinghouse Electic Corp. Failed fuse detector and detecting method for rotating electrical equipment. 4,635,044, 1-6-87, Cl. 340-638.000.
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Southard, Albert A. Rotary internal combustion engine with integrated supercharged fuel-air induction. 4,656,984, 4-14-87, Cl. 123-202.000.
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Southco, Inc.: *See*—
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Bisbing, Robert H., 4,687,237, Cl. 292-78.000.
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Slater, Frank W., 4,705,275, Cl. 273-309.000.
Souther, William C. Strut conversion. 4,651,398, 3-24-87, Cl. 29-401.100.
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Southern California Edison Company, Inc.: *See*—
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Southern Clay Products, Inc.: *See*—
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Southern Gas Association: *See*—
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Southern Research Institute: *See*—
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Temple, Carroll G.; Montgomery, John A.; Elliott, Robert D.; and Wheeler, Glynn P., 4,645,840, Cl. 546-308.000.
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Young, Quentin H., 4,640,108, Cl. 70-129.000.
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Southgate, Malcolm D., to W. Vinten Limited. Wedge and wedge adaptors. 4,657,216, 4-14-87, Cl. 248-187.000.
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Lee, Peter F., 4,655,226, Cl. 128-754.000.
Southwell, Patricia C. Undergarment for handicapped. 4,637,078, 1-20-87, Cl. 2-408.000.
Southwell, William H., to Rockwell International Corporation. Interference filter design using flip-flop optimization. 4,666,250, 5-19-87, Cl. 350-166.000.
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Southwest Products Co.: *See*—
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Southwest Wire Rope, Inc.: *See*—
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Norris, Daniel A.; Lowery, James O.; and Armstrong, Robert F., 4,644,098, Cl. 174-115.000.
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Southworth, George W. Swimming glove. 4,669,991, 6-2-87, Cl. 441-57.000.
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well, Gene H. Athletic shoe. 4,712,317, 12-15-87, Cl. 36-133.000.
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wiak, Raymond M.: *See—*
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wik, Jerry A.: *See—*
Cowles, Warren H.; and Sowik, Jerry A., 4,660,597, Cl. 137-505.420.
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yama, Hideo: *See—*
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aanderman, Cornelis; van der Hulst, Robert; and van Rij, Abraham W., to Thomas J. Lipton, Inc. Method and apparatus for volumetric dosing viscous products. 4,671,429, 6-9-87, Cl. 222-110.000.
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ecialty Tool Co., Inc.: *See*—
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Spector, Donald. Cosmetic cream applicator. 4,706,693, 11-17-87, Cl. 132-79.00R.
Spector, Donald. Light-activated aroma generator with automatic cutoff. 4,707,338, 11-17-87, Cl. 422-124.000.
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Spector, George: *See*—
Anderson, Mark S.; and Spector, George, 4,713,904, Cl. 42-79.000.
Ashley, Donnie L.; and Spector, George, 4,656,749, Cl. 33-334.000.
Bell, John H.; and Spector, George, 4,643,173, Cl. 128-68.100.
Blokh, Leonid; and Spector, George, 4,659,058, Cl. 249-119.000.
Bottamiller, Douglas O.; and Spector, George, 4,644,655, Cl. 30-347.000.
Braxton, Benjamin D.; and Spector, George, 4,639,654, Cl. 320-2.000.
Calloway, Luther, Jr.; and Spector, George, 4,713,900, Cl. 40-324.000.
Collins, William K.; and Spector, George, 4,713,947, Cl. 66-1.00A.
Cowan, James H.; and Spector, George, 4,634,123, Cl. 273-69.000.
Cuesta, Eugenio M.; and Spector, George, 4,634,085, Cl. 244-153.00R.
Curbow, James M.; and Spector, George, 4,671,307, Cl. 132-91.000.
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Davis, Robert E.; and Spector, George, 4,676,009, Cl. 36-7.800.
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Figlia, Betty J.; and Spector, George, 4,658,444, Cl. 2-161.00R.
Finley, Martha N.; and Spector, George, 4,678,485, Cl. 55-255.000.
Fleisher, Nathaniel; and Spector, George, 4,711,254, Cl. 131-189.000.
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Gabrosek, Kenneth; and Spector, George, 4,659,905, Cl. 219-212.000.
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Gonzales, Estevan; and Spector, George, 4,688,544, Cl. 126-73.000.
Gould, Frederick H., Jr.; and Spector, George, 4,667,545, Cl. 81-57.370.
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Hawker, Ralph L.; and Spector, George, 4,680,426, Cl. 174-57.000.
Howard, Ralph E.; and Spector, George, 4,667,426, Cl. 37-232.000.
Hults, Rhondalee R.; and Spector, George, 4,671,793, Cl. 604-385.00R.
Im, Byung-Do; and Spector, George, 4,667,817, Cl. 206-204.000.
Janssen, Owen R.; and Spector, George, 4,660,314, Cl. 43-4.000.
Jones, Leroy W.; and Spector, George, 4,669,576, Cl. 182-108.000.

Lemons, David H.; and Spector, George, 4,709,691, Cl. 128-66.000.
Lubet, Carl; and Spector, George, 4,677,765, Cl. 36-1.500.
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Mines, Isaiah H., Jr.; and Spector, George, 4,638,923, Cl. 221-132.000.
Orsini, Milagros C.; and Spector, George, 4,643,683, Cl. 434-403.000.
Padfield, Barbara J.; and Spector, George, 4,706,302, Cl. 2-22.000.
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Ridley, William E.; and Spector, George, 4,709,176, Cl. 310-15.000.
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Roig, Francisco; and Spector, George, 4,667,688, Cl. 131-329.000.
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Sander, Floyd G.; and Spector, George, 4,699,313, Cl. 232-4.00R.
Sansotta, Carmelo; and Spector, George, 4,711,319, Cl. 182-155.000.
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Upton, Gain; and Spector, George, 4,692,751, Cl. 340-602.000.
Wade, Darrel E., Sr.; and Spector, George, 4,700,556, Cl. 70-455.000.
Wainscott, Delores A.; and Spector, George, 4,692,004, Cl. 352-132.000.
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Young, Elaine L.; and Spector, George, 4,708,892, Cl. 428-24.000.
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Scifres, Donald R.; Cross, Peter; and Harnagel, Gary L., 4,716,568, Cl. 372-36.000.

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Cain, Gary L.; Meyers, Lawrence J.; Teach, Ted L.; Rando, Joseph F.; and Markley, Theodore J., 4,679,937, Cl. 356-138.000.
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DeBell, Gary W.; Wright, David L.; Ruddock, Kenneth A.; Petersen, Alan B.; Carlson, Lee R.; and von Gunten, Marc K., 4,685,110, Cl. 372-103.000.
Hart, Edward E., 4,684,836, Cl. 310-83.000.
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Kafka, James D.; and Baer, Thomas M., 4,646,308, Cl. 372-25.000.
Kafka, James D.; Baer, Thomas M.; and Head, David F., 4,685,107, Cl. 372-6.000.
Lonsdale, Randall J.; and Hellekson, Ronald A., 4,678,288, Cl. 350-432.000.
Markley, Theodore J.; Teach, Ted L.; Hart, Edward E.; and Pohl, William C., 4,654,856, Cl. 372-65.000.
Markley, Theodore J.; Omlor, Richard J.; Vatter, William K.; and Sobottke, Mark D., 4,676,598, Cl. 350-171.000.
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Rando, Joseph F.; and Jones, Henry W., 4,698,479, Cl. 219-121.0LV.
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Spectral Instrument Co.: *See*—
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Goorsky, Mark S.; Koch, Mark B.; and Murray, Richard C., Jr., 4,706,677, Cl. 128-634.000.

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Vaughn, Eldon D., 4,694,657, Cl. 62-80.000.

Spectrol Reliance Limited: *See*—
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Diskowski, Jorg; Jeppel, Wolfgang; Moisel, Hartmut; and Spiess, Hans P., 4,674,061, Cl. 364-571.000.

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Regelsberger, Wolfgang; Rumpp, Gerhard; and Spieth, Manfred, 4,652,187, Cl. 408-240.000.

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Spiewak, Martin H.; and Paskow, Herbert. Anti-snoring device. 4,669,459, 6-2-87, Cl. 128-136.000.

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Spigarelli, Donald J.; Peck, Douglas J.; and Finney, James L., to HTC Corporation, The. Continuous solder system. 4,685,605, 8-11-87, Cl. 228-37.000.

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Spikes, Hugh D., to Antelope Oil Tool & Mfg. Company. Centralizer. 4,651,823, 3-24-87, Cl. 166-241.000.

Spilburg, Curtis A.; and Moore, William McC., to Monsanto Company. Peptide hydroxamic acid derivatives. 4,687,841, 8-18-87, Cl. 530-331.000.

Spilde, Rodney. Temperature responsive pneumatic control device. 4,666,082, 5-19-87, Cl. 236-86.000.

Spilker, Harry; Rox, Rainer; and Peschi, Heinz-Walter. Depository for radioactive waste and spent fuel cells. 4,713,199, 12-15-87, Cl. 252-633.000.

Spillar, Alan; and Desyllas, Peter L. L., to International Computers, Ltd. Data processing module with serial test data paths. 4,697,234, 9-29-87, Cl. 364-200.000.

Spiller, Gerhard: *See*—
Bauer, Karl-Heinz; Rutterschmidt, Franz; and Spiller, Gerhard, 4,660,019, Cl. 338-179.000.

Spiller, Hans-Dieter; and Wackerle, Peter, to Messerschmitt-Bolkow-Blohm GmbH. Disk wheel, especially railroad wheel. 4,699,417, 10-13-87, Cl. 295-7.000.

Spiller, Monica A. Admixture of a *lactobacillus brevis* and a *saccharomyces dairensis* for preparing leavening barm. 4,666,719, 5-19-87, Cl. 426-18.000.

Spillert, Charles R.; Devereux, Corinne; and Lazaro, Eric J., to University of Medicine and Dentistry of New Jersey. Process for potentiating effects of barbituate anesthesia to a warm-blooded animal. 4,661,478, 4-28-87, Cl. 514-158.000.

Spillert, Charles R.; Devereux, Corinne; and Lazaro, Eric J., to University of Medicine & Dentistry of New Jersey. Process for treating a warm-blooded animal to be subjected to radiotherapy. 4,698,335, 10-6-87, Cl. 514-158.000.

Spillert, Charles R.; Suval, William D.; and Lazaro, Eric J., to University of Medicine and Dentistry of New Jersey. Method of determining the existence and/or the monitoring of a pathological condition in a mammal. 4,705,756, 11-10-87, Cl. 436-64.000.

Spillman, John J., to National Research Development Corporation. Method and apparatus for spraying a target surface. 4,660,762, 4-28-87, Cl. 239-1.000.

Spillman, Robert L. Portable spectator's stool. 4,676,547, 6-30-87, Cl. 297-4.000.

Spillman, William B., Jr., to Simmonds Precision Products, Inc. Method and apparatus for compensating fiber optic lead and connector losses in a fiber optic sensor by using a dual wavelength optical source and matched polarizer. 4,709,145, 11-24-87, Cl. 250-227.000.

Spillman, William B., Jr., to Simmonds Precision Products, Inc. Method and apparatus for compensating fiber optic lead and connector losses in a fiber optic sensor by using a broadband optical source and multiple wave retardation. 4,712,004, 12-8-87, Cl. 250-227.000.

Spilman, Derek B.: *See*—
Merwin, Gerald E.; Spilman, Derek B.; and Hench, Larry L., 4,676,796, Cl. 623-10.000.

Spina, Stanislao: *See*—
Gordini, Silvano; Carbonaro, Antonio; and Spina, Stanislao, 4,699,960, Cl. 526-81.000.

Spinas, Stefi. Carrying aid for skis. 4,705,281, 11-10-87, Cl. 280-47.13R.

Spindel Motoren & Maschinenfabrik AG: *See*—
Widmer, Dieter, 4,674,272, Cl. 57-135.000.

Spindeler, Heinz, to Dr. C. Otto & Comp. GmbH. Closure for a gas offtake pipe. 4,666,559, 5-19-87, Cl. 202-254.000.

Spindelfabrik Sussen, Schurr, Stahlecker: *See*—
Griesinger, Rolf; and Fetzer, Gerhard, 4,637,172, Cl. 51-289.00R.

Spindler, Dietmar E. Method of manufacturing axle assemblies. 4,659,005, 4-21-87, Cl. 228-112.000.

Spindler, Irvin, to George Koch Sons, Inc. Fluid wash spray paint system. 4,696,254, 9-29-87, Cl. 118-610.000.

Spindler, Manfred: *See*—
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Spindler, Thomas: *See*—
Mierau, Hans-Dieter; and Spindler, Thomas, 4,698,869, Cl. 15-22.00R.

Spinelli, Harry J., to Du Pont de Nemours, E. I., and Company. Acrylic star polymers containing single-and multi-functional monomers in the core. 4,659,782, 4-21-87, Cl. 525-293.000.

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li, John; Stout, Virginia F.; and Nilsson, William B., to United es of America, Commerce. Purification of fish oils. 4,692,280, 87, Cl. 260-420.000.

li, John: *See*—

out, Virginia F.; and Spinelli, John, 4,675,132, Cl. 260-412.000.

li, Pia: *See*—

rsura, Emilio; Capizzi, Amedeo; Cassani, Giorgio; Spinelli, Pia; and Tonini, Cristina, 4,656,032, Cl. 424-84.000.

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li, Richard A.; Costanza, Daniel W.; Statt, William L.; and Glab, vin F., to Xerox Corporation. Double dual rate precession scan em. 4,669,857, 6-2-87, Cl. 355-8.000.

li, Thomas S.; and Deras, Edward J., to Texas Instruments Incor- ted. Shipping and dispensing package for a series of articles. 6,812, 11-17-87, Cl. 206-332.000.

er, John O.: *See*—

rr, Avigdor; Spingler, John O.; and Gilbert, Seymour G., 4,670,275, Cl. 426-270.000.

rr, Avigdor; and Spingler, John O., 4,711,789, Cl. 426-326.000.

er, Bernard: *See*—

yre, Didier; Crozat, Georges; and Spinner, Bernard, 4,682,476, Cl. 62-480.000.

r, Georg; Pitschi, Franz-Xaver; and Linnerbauer, Horst. Device pressure sealed connection of the outer conductor of a coaxial 4,687,272, 8-18-87, Cl. 439-271.000.

r GmbH, Elektotechnische Fabrik: *See*—

ang, Manfred, 4,661,787, Cl. 333-22.00R.

a, Dominic J.; and Knoll, Frank, to East/West Industries, Inc. sure device for high pressure packaging. 4,648,160, 3-10-87, Cl. 15.000.

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a, Dominic J.: *See*—

inosa, Joseph D.; and Spinosa, Dominic J., 4,634,420, Cl. 604-22.000.

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Henry. Towel holder. 4,699,279, 10-13-87, Cl. 211-89.000.

Joel S.: *See*—

owen, Michael J.; Yuhasz, Stephen J.; Buehler, David L.; Jacoby, Elliot G.; and Spira, Joel S., 4,689,547, Cl. 323-239.000.

System Instruments, Inc.: *See*—

chalkowsky, Samuel, 4,637,053, Cl. 382-6.000.

Systems Inc.: *See*—

ampbell, Jeptha E., 4,688,610, Cl. 141-83.000.

Sarco Limited: *See*—

ennett, Alan F.; and Gooderham, Roy J., 4,660,760, Cl. 236-59.000.

ewhirst, Keith, 4,681,256, Cl. 236-56.000.

Corporation: *See*—

oshanst, Piran, 4,693,760, Cl. 148-4.000.

pitzer, Mark B., 4,667,060, Cl. 136-255.000.

pitzer, Mark B., 4,676,845, Cl. 148-33.300.

, Walter P., Jr.: *See*—

rooks, John G., Jr.; and Spires, Walter P., Jr., 4,714,474, Cl. 623-20.000.

onov, Oleg P.: *See*—

edorov, Svyatoslav N.; Egorova, Eleonora V.; Nanushyan, Sergei R.; Chernyshev, Evgeny A.; Spiridonov, Oleg. P.; Benenson, Igor L.; Polivanov, Alexandr N.; Shapatin, Anatoly S.; and Karavaev, Alexandr A., 4,647,282, Cl. 623-4.000.

Franz, to Siemens Aktiengesellschaft. Electrical machine with a or lamination of grain-oriented sheets. 4,672,252 6-9-87, Cl. 216.000.

John W., Jr.; and Nottingham, John R. Hand tool and support. 2,587, 9-8-87, Cl. 219-242.000.

America Inc.: *See*—

stricum, Wilhelmus P. H., 4,706,481, Cl. 72-49.000.

stricum, Wilhelmus P. H., 4,711,110, Cl. 72-49.000.

Investment A.G.: *See*—

rglund, Bengt, 4,637,428, Cl. 137-503.000.

Jan L., to Telautograph Corporation. Communication system ng message repeating terminals. 4,638,298, 1-20-87, Cl. 827.000.

Research B.V.: *See*—

offelsen, Franciscus, 4,645,518, Cl. 55-203.000.

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tec AB: *See*—

ongert, Lars H.; and Lindgren, Sten O. T., 4,648,431, Cl. 141-18.000.

Spisak, Andrew M.; and Adduci, Robert L., to General Motors Corporation. Adaptive ride hydraulic damper with piston rod dress cap. 4,660,688, 4-28-87, Cl. 188-299.000.

Spisak, Andrew M.: *See*—

Daum, Ronald E.; Detter, Gary C.; and Spisak, Andrew M., 4,669,798, Cl. 439-423.000.

Spisak, Anthony F., to Ex-Cell-O Corporation. Conveyor chain adjustment means. 4,641,744, 2-10-87, Cl. 198-813.000.

Spitsinger, Friedrich H. Apparatus to facilitate lengthening the life of incandescent lamps. 4,651,061, 3-17-87, Cl. 315-200.00R.

Spitaler, Engelbert; and Freisinger, Henry, to TMC Corporation. Heel holder. 4,664,406, 5-12-87, Cl. 280-632.000.

Spitaler, Engelbert, to TMC Corporation. Safety ski binding. 4,681,338, 7-21-87, Cl. 280-628.000.

Spitaler, Engelbert; and Wuerthner, Hubert, to TMC Corporation. Apparatus for holding skis together. 4,688,820, 8-25-87, Cl. 280-605.000.

Spitaler, Englebert; and Wuerthner, Hubert, to TMC Corporation. Heel holder, in particular for a rental ski. 4,690,424, 9-1-87, Cl. 280-633.000.

Spitler, Jack H.; Goodenow, Elden L.; and Jones, Lawrence E. Method and apparatus for pneumatic-tool maintenance. 4,703,767, 11-3-87, Cl. 134-102.000.

Spitler, James A.: *See*—

Mann, Joseph M.; and Spitler, James A., 4,684,786, Cl. 219-297.000.

Spitz, Jean, to Commissariat a l'Energie Atomique. Sand blasting nozzle. 4,633,623, 1-6-87, Cl. 51-439.000.

Spitz, Roger: *See*—

Pasquet, Veronique; and Spitz, Roger, 4,639,430, Cl. 502-120.000.

Spitzenberger, Kurt: *See*—

Glas, Hans J.; Hecht, Hans; Muller, Klaus; Spitzenberger, Kurt; and Stecher, Gunther, 4,711,130, Cl. 73-708.000.

Modic, Fedor; Leibfried, Wolfgang; Nitsch, Manfred; Spitzenberger, Kurt; and Zimmermann, Herbert, 4,640,739, Cl. 156-659.100.

Spitzer, Mark B., to Spire Corporation. Back junction photovoltaic solar cell. 4,667,060, 5-19-87, Cl. 136-255.000.

Spitzer, Mark B., to Spire Corporation. Passivated deep p/n junction. 4,676,845, 6-30-87, Cl. 148-33.300.

Spitzer, Wayne A., to Eli Lilly and Company. Methods of producing a positive inotropic effect or vasodilation by administration of 2-phenyl imidazo pyrimidines and pyrazines. 4,636,502, 1-13-87, Cl. 514-249.000.

Spitzer, Wayne A., to Eli Lilly and Company. Inotropic agents. 4,670,445, 6-2-87, Cl. 514-300.000.

Spitzer, William R. Plug for use in hot oil treatment of wells having paraffin deposits and method of use thereof. 4,655,285, 4-7-87, Cl. 166-250.000.

Spitznas, Manfred; Reiner, Josef; Veit, Wolfgang; and Kirchhuebel, Rainer, to Oculus Optikgeraete GmbH. Surgical stereomicroscope. 4,710,000, 12-1-87, Cl. 350-516.000.

Spiva, Lowell E. Goggle mounting system. 4,686,712, 8-18-87, Cl. 2-10.000.

Spivack, John D.; Pastor, Stephen D.; and Odorisio, Paul, to Ciba-Geigy Corporation. 1H-polyalkyl-phosphorinanes. 4,642,382, 2-10-87, Cl. 568-12.000.

Spivack, John D.; Ravichandran, Ramanathan; and Pastor, Stephen D., to Ciba-Geigy Corporation. Substituted N-(4-hydroxyphenylthioalkyl) cyclic imides. 4,692,532, 9-8-87, Cl. 548-312.000.

Spivack, John D., to Ciba-Geigy Corporation. Pentaerythritol diphosphite stabilizers and process. 4,692,539, 9-8-87, Cl. 558-78.000.

Spivack, John D.; and Pastor, Stephen D., to Ciba-Geigy Corporation. Substituted-(hydroxyphenyl)-pyrrolidine-2,5-dione stabilizers. 4,709,050, 11-24-87, Cl. 548-520.000.

Spivack, John D.; Steinberg, David H.; and Odorisio, Paul A., to Ciba-Geigy Corporation. Long chain (4-hydroxyphenyl) propanoate stabilizers. 4,713,475, 12-15-87, Cl. 560-75.000.

Spivack, John D.: *See*—

Pastor, Stephen D.; and Spivack, John D., 4,636,573, Cl. 556-441.000.

Spivey, Brett A., to Western Research Corporation. Laser wavefront measurement device utilizing crossed Ronchi gratings. 4,670,646, 6-2-87, Cl. 250-201.000.

Spivey, Melvin F. Continuous injection of corrosion-inhibiting liquids. 4,635,723, 1-13-87, Cl. 166-250.000.

Splaine, Constance K. Compact fire escape. 4,705,141, 11-10-87, Cl. 182-48.000.

Splane, Robson L., Jr.: *See*—

Iams, John F.; and Splane, Robson L., Jr., 4,674,740, Cl. 272-71.000.

Splett, Erich: *See*—

Bittner, Friedrich; Hinrichs, Walter; Hovestadt, Herbert; Lange, Ludwig; and Splett, Erich, 4,640,832, Cl. 423-562.000.

Splett, Katherine A.; and Howe, James A., to Sperry Corporation. Redundant synchronous clock system. 4,691,126, 9-1-87, Cl. 307-441.000.

Splitt, Frank G., to Northern Telecom Limited. Apparatus for providing positive protection for station protectors for telephone systems. 4,658,325, 4-14-87, Cl. 361-119.000.

SPM Manufacturing Corporation: *See*—

Shaine, William L., 4,702,026, Cl. 40-159.000.

Spock, Wayne R.; and Meisner, Richard P., to United Technologies Corporation. EMI suppression for electronic engine control frequency signal inputs. 4,639,885, 1-27-87, Cl. 364-574.000.

Spock, Wayne R.; and Urbanik, Peter J., to United Technologies Corporation. Control system actuator position synthesis for failure detection. 4,641,517, 2-10-87, Cl. 73-116.000.

Spock, Wayne R.: *See*—
McLaughlin, Peter W.; Spock, Wayne R.; and Kenison, David F., 4,651,518, Cl. 60-39.020.

Spodati, Fabrizio; and Tamburello, Mario, to Telettra-Telefonia Elettronica e Radio S.p.A. System for the connection of photodetectors to optical fibers. 4,709,979, 12-1-87, Cl. 350-96.200.

Spoel, Han: *See*—
McMahon, J. Philip; Spoel, Han; and McGinley, John, 4,637,591, Cl. 266-165.000.

Spoeler, Johannes-Gerhard; and Janssen, Heinz-Uwe, to Mannesmann AG. Lifting and lowering a rail section. 4,706,782, 11-17-87, Cl. 187-20.000.

Spoelstra, Jeffrey A.: *See*—
Sutton, Jimmy; Shearer, Wanda; Arkin, Karlie J.; Spoelstra, Jeffrey A.; Weiss, Steven M.; Ramsey, Sherry L.; Hurlbut, Kyle; Culbertson, W. Bruce; and Burns, Robert R., 4,649,499, Cl. 364-518.000.

Spoeth, Carl R.: *See*—
Dobson, William C.; and Spoeth, Carl R., 4,650,268, Cl. 339-43.000.

Spoetzl, Markus: *See*—
Pongratz, Leonhard; Degener, Ulrich; Spoetzl, Markus; and Kotai, Ferenc, 4,674,396, Cl. 89-47.000.

SPOFA, spojene podniky pro zdravotnickou vyrobu: *See*—
Cerny, Antonin; Krepelka, Jiri; Rezabek, Karel, Fruhaufova, Maria; Pesak, Milan; Sevcik, Bohumil; Kral, Josef; Borovicka, Antonin; Bilek, Petr; Picmausova, Dagmar; Stuchlik, Josef; Picha, Josef; and Strakova, Jana, 4,692,452, Cl. 514-288.000.
Kasafirek, Evzen; Cerny, Martin; Kocis, Petr; Krepelka, Jiri; and Rovensky, Jozef, 4,711,952, Cl. 530-327.000.
Krepelka, Jiri; Vancurova, Iva; Rezabek, Karel; Melka, Milan; Pujman, Vojtech; Pokorna, Stanislava; Reichlova, Ruzena; and Cernochova, Slavjanka, 4,661,297, Cl. 260-501.180.
Kuchar, Miroslav; Brunova, Bohumila; Grimova, Jaroslava; and Maturova, Eva, 4,683,331, Cl. 562-459.000.
Protiva, Miroslav; Jilek, Jiri; Cervena, Irena; Dlabac, Antonin; Valchar, Martin; and Pomykacek, Josef, 4,678,788, Cl. 514-254.000.

Spofford, Bruce S.; Fucich, Lorraine; Howell, David A.; Nee, John D.; and Green, Richard A., to Westinghouse Electric Corp. Replacement of split-pin assemblies in guide tubes. 4,675,961, 6-30-87, Cl. 29-33.00K.

Spoganetz, Joseph C.: *See*—
Krawchuk, Myron; and Spoganetz, Joseph C., 4,641,774, Cl. 228-2.500.

Spohr, Reimar, to Gesellschaft fur Schwerionenforschung mbH Darmstadt. Amorphous glass matrix containing aligned microscopically thin metal conductors. 4,668,957, 5-26-87, Cl. 343-812.000.

Spokas, Romas B.: *See*—
Sturges, Fred D.; and Spokas, Romas B., 4,674,609, Cl. 192-0.033.

Spolander, Sven I., to Bind-O-Matic AB. Paper block or pad and a method of producing it. 4,667,983, 5-26-87, Cl. 281-15.00R.

Spoler, Johannes G.; and Grapentin, Manfred, to Mannesmann AG. Suspension of rails. 4,646,647, 3-3-87, Cl. 104-111.000.

Spolyar, John I. Portable roentgenographic cephalostat. 4,683,582, 7-28-87, Cl. 378-174.000.

Spombiantti, Angelina M.: *See*—
Maggio, Charles F.; and Spombiantti, Angelina M., 4,635,308, Cl. 5-508.000.

Sponagle, G. W.: *See*—
Grauman, R. J.; Sponagle, G. W.; and Rachuk, T. W., 4,680,961, Cl. 73-170.00R.

Sponer, Gisbert: *See*—
Holck, Jens-Peter; Mertens, Alfred; Kampe, Wolfgang; Muller-Beckmann, Bernd; Sponer, Gisbert; and Strein, Klaus, 4,666,923, Cl. 514-338.000.

Spong, Fred W.: *See*—
Bell, Alan E.; and Spong, Fred W., 4,661,941, Cl. 369-111.000.
Muchnik, Boris I.; and Spong, Fred W., 4,694,358, Cl. 360-59.000.

Spong, Richard V.: *See*—
Jackson, Mark F.; Lawruk, Stephen P.; Schlegel, Dallas E.; and Spong, Richard V., 4,715,112, Cl. 29-739.000.

Sponge Fishing Co., Inc.: *See*—
Giallourakis, Michael A., 4,670,962, Cl. 29-450.000.

Spongr, Jerry J.; and Sawyer, Byron E., to Twin City International, Inc. Apparatus for measuring coating thickness. 4,656,357, 4-7-87, Cl. 250-359.100.

Sponselee, Josephus G.: *See*—
Afghan, Madjid; and Sponselee, Josephus G., 4,640,807, Cl. 264-13.000.

Spontex Incorporated: *See*—
Neveu, Jean-Louis, 4,645,699, Cl. 428-95.000.

Spooner, Anthony N.; and Lima-Marques, Luis, to Research Laboratories of Australia Pty. Ltd. Method of and means for testing flow properties of magnetic toners. 4,697,463, 10-6-87, Cl. 73-866.000.

Spooner, Frank: *See*—
Crossley, Ian; Donoghue, Daniel; Goldwasser, Robert; Miley, John; and Spooner, Frank, 4,644,296, Cl. 331-1.00R.

Spooner, Tobin H., to Kohler Co. Toilet tank float valve assembly. 4,646,780, 3-3-87, Cl. 137-426.000.

Spooner, Tobin H.: *See*—
Risberg, Mark A.; and Spooner, Tobin H., 4,646,370, Cl. 4-661.000.

Sporer, Timothy J.: *See*—
Bonnesen, John S.; and Sporer, Timothy J., 4,680,665, Cl. 361-120.000.

Sporing, Jorg: *See*—
Oechslin, Ludwig; Giger, Urs; and Sporing, Jorg, 4,711,583, Cl. 368-16.000.

Spork, Johannes E. G.: *See*—
Gansow, Michael A. P.; Shadid, Omar B.; and Spork, Johannes E. G., 4,704,411, Cl. 521-166.000.

Sport Cord, Inc.: *See*—
Hagerman, Gene R.; Atkins, John W.; and McMurtry, John G., 4,685,671, Cl. 272-139.000.

Sport Graphics, Inc.: *See*—
Jacober, Jeffrey M., 4,706,85[illegible], Cl. 224-151.000.

Sportelli, Louis; and Winterstein, James F. Full spine shielding means. 4,707,846, 11-17-87, Cl. 378-145.000.

Sports Marketing, Inc.: *See*—
Vacanti, Eugene J., 4,700,403, Cl. 2-2.000.

Sports Protective Orthotics Ltd.: *See*—
Meyers, Andrew; Minkoff, Jeffrey; and Langevin, David, 4,654,893, Cl. 2-2.000.

Sposini, Maurizio: *See*—
Gagliardi, Fabrizio; Lambarelli, Livio; Panarotto, Gianfranco; Roffinella, Daniele; and Sposini, Maurizio, 4,696,001, Cl. 370-88.000.
Lambarelli, Livio; Roffinella, Daniele; and Sposini, Maurizio, 4,663,758, Cl. 370-94.000.

Spotnitz, Robert M.; and Kreh, Robert P., to W. R. Grace & Co. Oxidation of organic compounds using thallium ions. 4,692,227, 9-8-87, Cl. 204-78.000.

Spotnitz, Robert M.: *See*—
Kreh, Robert P.; and Spotnitz, Robert M., 4,639,298, Cl. 204-59.00R.
Kreh, Robert P.; and Spotnitz, Robert M., 4,647,349, Cl. 204-59.00R.
Kreh, Robert P.; and Spotnitz, Robert M., 4,670,108, Cl. 204-59.00R.

Spottl, Hermann: *See*—
Mettler, Karl; Oertle, Max; and Spottl, Hermann, 4,667,530, Cl. 74-493.000.

Spotts, Kenneth: *See*—
De Bruine, Mark; and Spotts, Kenneth, 4,638,965, Cl. 248-59.00[illegible].

Spotts, Kenneth L., to AMP Incorporated. Electrical connector pickup station. 4,636,126, 1-13-87, Cl. 414-126.000.

Spotzl, Markus: *See*—
Pongratz, Leonhard; Kotai, Ferenc; and Spotzl, Markus, 4,677,894, Cl. 86-45.000.

Spraco, Inc.: *See*—
Hofmann, Hans J., 4,706,889, Cl. 239-550.000.

Spradley, Willie D.; and Creswell, Paul J. Hydraulic jacking system for unseating wedge from rope sockets. 4,714,238, 12-22-87, Cl. 254-93.00R.

Spradling, Allan C.: *See*—
Rubin, Gerald M.; and Spradling, Allan C., 4,670,388, Cl. 435-172.300.

Spragg, Nicholas J.: *See*—
Beauford, William; Spragg, Nicholas J.; and Millar, Malcolm, 4,661,157, Cl. 106-18.130.

Spraggins, Mike. Modular window insert with collapsible shade. 4,679,610, 7-14-87, Cl. 160-107.000.

Sprague, David L., to RCA Corporation. Control signal generator. 4,694,197, 9-15-87, Cl. 307-269.000.

Sprague Devices, Inc.: *See*—
Forsythe, Alan K.; and Frigon, Richard J., 4,708,053, Cl. 91-284.000.

Sprague Electric Company: *See*—
Bernard, Walter J.; and Florio, Steven M., 4,692,224, Cl. 204-56.100.
Bernard, Walter J.; and Fresia, E. James, 4,706,375, Cl. 29-570.100.
Chalfin, Edward, 4,691,262, Cl. 361-56.000.
Cipollini, Ned E., 4,654,075, Cl. 75-0.50A.
Florio, Steven M., 4,715,936, Cl. 204-58.000.
Higgs, Jacob K., 4,705,964, Cl. 307-278.000.
Higgs, Jacob K., 4,709,214, Cl. 330-6.000.
Macdonald, Mary A., 4,688,322, Cl. 29-570.100.
Maher, Galeb H., 4,706,163, Cl. 361-321.000.
Morin, Thomas M., 4,716,058, Cl. 427-420.000.
Pan, David S.; Sarma, Kanak C.; Halfacre, Mark A.; Owens, Alexander H.; and Rosier, Brian K., 4,706,102, Cl. 357-23.500.
Rosier, Brian K., 4,694,430, Cl. 365-189.000.
Zunino, Michael J., 4,646,124, Cl. 357-43.000.

Sprague, Joan: *See*—
Sprague, Robert; and Sprague, Joan, 4,650,423, Cl. 434-156.000.

Sprague, Michael M.: *See*—
Carter, John L.; and Sprague, Michael M., 4,662,083, Cl. 34-86.000.

Sprague, Peter W.: *See*—
Haugwitz, Rudiger D.; and Sprague, Peter W., 4,681,886, Cl. 514-259.000.
Loots, Melanie J.; Hall, Steven E.; and Sprague, Peter W., 4,647,585, Cl. 514-530.000.

Sprague, Richard P.: *See*—
Jacks, Richard P.; and Sprague, Richard P., 4,692,941, Cl. 381-52.000.

Sprague, Robert; and Sprague, Joan. Method of teaching and transcribing of language through the use of a periodic code of language elements. 4,650,423, 3-17-87, Cl. 434-156.000.

Sprague, Robert A.; and Urbach, John C., to Xerox Corporation. High density block oriented solid state optical memories. 4,663,738, 5-5-[illegible], Cl. 365-127.000.

e, Robert A.: *See—*
rnham, Robert D.; Paoli, Thomas L.; Thornton, Robert L.; and
Sprague, Robert A., 4,638,334, Cl. 346-108.000.
povic, Zoran D.; Sprague, Robert A.; and Connell, G. A.
Neville, 4,689,291, Cl. 430-321.000.
ifres, Donald R.; and Sprague, Robert A., 4,656,641, Cl.
372-103.000.
er, Dieter: *See—*
wandowski, Dieter; Ostermoor, Rolf; and Spranger, Dieter,
4,710,330, Cl. 264-25.000.
ger, Gunther. Method and device for decreasing the flow resis-
e on wings particularly aerofoils and blades of turbomachines
sed to gas flux such as air. 4,687,416, 8-18-87, Cl. 416-223.00A.
er, Kurt: *See—*
ck, Bernd A. W.; and Spranger, Kurt, 4,689,191, Cl. 264-573.000.
Kenneth, to James, Thomas A. Locking mechanism for light-
ht security cabinet. 4,679,415, 7-14-87, Cl. 70-118.000.
, Werner: *See—*
aubennestel, Karlheinz; Breil, Daniela; Bubat, Alfred; and
Spratte, Werner, 4,696,761, Cl. 252-358.000.
All, Inc.: *See—*
namberlin, Edward B.; Brown, Edward M.; and Towns, Edward
J., 4,697,993, Cl. 417-514.000.
ng Systems Co.: *See—*
tterfield, Ted; and Reif, Stephen C., 4,660,598, Cl. 137-510.000.
mory, Lyle J.; and Maney, Patrick, 4,645,127, Cl. 239-299.000.
rrazza, Gerald P.; and Huck, Pamela R., 4,655,394, Cl.
239-412.000.
'Brien, Edward J.; Emory, Lyle; and Vidusek, Daniel A.,
4,664,314, Cl. 239-469.000.
ulsen, Gary; and Thomas, Lawrence E., 4,650,099, Cl.
222-263.000.
ulsen, Gary; and Thomas, Lawrence, 4,667,880, Cl. 239-304.000.
ico, Franca: *See—*
ccolo, Oreste; Visentin, Giuseppina; Blasina, Pietro; and
Spreafico, Franca, 4,670,603, Cl. 568-319.000.
ico, Gaspare: *See—*
ambiaghi, Stefano; Dallatomasina, Franco; Giardino, Pietro;
Murador, Enzo; and Spreafico, Gaspare, 4,668,625, Cl.
435-70.000.
ace-Pantoli, Enio. Concrete and construction system and modular
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249-19.000.
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ilippi, Arthur M.; and Sprecace, Richard P., 4,700,863, Cl.
220-67.000.
her & Schuh AG: *See—*
ilfiker, Peter, 4,686,599, Cl. 361-32.000.
chutz, Willi; and Valle, Robert, 4,647,730, Cl. 200-6.00R.
Vuthrich, Hans-Rudolf, 4,654,494, Cl. 200-337.000.
Vuthrich, Hans-Rudolf, 4,684,771, Cl. 200-144.00B.
ker, Mark A.; Schreiber, William L.; Fujioka, Futoshi; Boden,
hard M.; Vock, Manfred H.; Whelan, Patrick; and Hanna, Marie
to International Flavors & Fragrances Inc. Alkoxy-substituted
yhydroindan carboxaldehydes. 4,636,333, 1-13-87, Cl. 252-
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ker, Mark A.; and Hanna, Marie R., to International Flavors &
grances Inc. Alkyl-substituted spirodecenone derivatives, organo-
tic utility thereof and processes for preparing same. 4,639,330,
7-87, Cl. 252-522.00R.
ker, Mark A.; Wiegers, Wilhelmus J.; Belko, Robert P.; and
den, Richard M., to International Flavors & Fragrances Inc. Alkyl
stituted and unsubstituted para-carboalkoxy cyclohexanones and
anoleptic uses thereof. 4,643,903, 2-17-87, Cl. 426-538.000.
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se liquid mixture of tricyclic isochroman derivative mixture and
tyl tetrahydronaphthalene derivative mixture. 4,650,603, 3-17-87,
252-522.00R.
ker, Mark A., to International Flavors & Fragrances Inc. 5-nitro-
2,3,3-pentamethyl indane derivatives and perfumery uses thereof.
52,400, 3-24-87, Cl. 252-522.00R.
ker, Mark A.; and Hanna, Marie R., to International Flavors &
grances Inc. Alkyl-substituted-oxo-spirodecenene derivatives,
anoleptic utility thereof and processes for preparing same.
58,432, 5-26-87, Cl. 252-522.00R.
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stituted para-carboalkoxy cyclohexanones. 4,668,817, 5-26-87, Cl.
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lkoxy cyclohexanones. 4,681,976, 7-21-87, Cl. 560-126.000.
ker, Mark A.: *See—*
Wiegers, Wilhelmus J.; Sprecker, Mark A.; and Schreiber, William
L., 4,666,629, Cl. 252-522.00R.
n, James H., to International Business Machines Corporation.
ripled power supply inductors for reduced ripple current.
03,409, 10-27-87, Cl. 363-45.000.
gel, Dietrich: *See—*
lotzl, Karl; Knabenbauer, Wolfgang; Sprengel, Dietrich; and
Tepel, Rudolf, 4,643,959, Cl. 429-222.000.
ger, Kenneth J.: *See—*
owell, Thomas A.; Kolnes, Kenneth O.; Sprenger, Kenneth J.;
Casarotto, John D.; Whitney, Kenneth P.; and Hammer, Gerald
M., 4,654,957, Cl. 29-568.000.

Sprenger, Wilfried; and Kirma, Safa, to Messerschmitt-Bolkow-Blohm GmbH. Food supply system for an aircraft. 4,660,787, 4-28-87, Cl. 244-118.500.

Sprenger, Willi, to General Motors Corporation. Electrically heatable automobile window power-supply connector assembly. 4,707,591, 11-17-87, Cl. 219-541.000.

Sprengers, Leo M.: *See—*
de Man, Rolf E.; de Ridder, Jan; Sprengers, Leo M.; and Peeters, Jozef I. C., 4,636,691, Cl. 315-209.00R.

Sprenkle, George J.: *See—*
Smith, Grant M.; and Sprenkle, George J., 4,647,852, Cl. 324-158.00P.

Spriessler, Heinz, to Liebherr-Hydraulikbagger GmbH. Apparatus for controlling the rotary speed of a diesel engine for a hydraulic excavator or the like. 4,643,146, 2-17-87, Cl. 123-357.000.

Spriestersbach, Jochen; and Woithe, Herbert, to Maschinenfabrik Muller-Weingarten Aktiengesellschaft; and Vereinigte Aluminium-Werke AG. Die casting method. 4,660,614, 4-28-87, Cl. 164-113.000.

Spriewald, Erika; Eder, Wilhelm; and Meckl, Heinz, to Agfa Gevaert Aktiengesellschaft. Receiver for purifying liquids. 4,664,799, 5-12-87, Cl. 210-288.000.

Spriggs, Dennis M.; and McGlothen, Jody R., to Dresser Industries, Inc. Apparatus and method of well preparation for chemical treatment of produced fluids. 4,637,469, 1-20-87, Cl. 166-310.000.

Spriggs, Donald R., to General Electric Company. Solid particle erosion resistant coating utilizing titanium carbide. 4,704,336, 11-3-87, Cl. 428-552.000.

Spring, Andreas, to F. Gegauf AG Bernina-Nahmaschinenfabrik. Bobbin winding device for sewing machines. 4,646,982, 3-3-87, Cl. 242-20.000.

Spring Creek Institute, Inc.: *See—*
Dunseath, W. J. Ross, Jr., 4,669,479, Cl. 128-640.000.

Spring, David J., to Graviner Limited. Cooling apparatus. 4,713,101, 12-15-87, Cl. 62-8.000.

Spring, David J.: *See—*
Powell, Brian D.; and Spring, David J., 4,694,172, Cl. 250-339.000.

Spring, Donald G.: *See—*
Johnsen, John L.; Wood, William E.; Devletian, Jack H.; and Spring, Donald G., 4,708,282, Cl. 228-263.160.

Spring, Robert J.: *See—*
Caldwell, Donald B.; and Spring, Robert J., 4,711,299, Cl. 166-105.100.

Spring, William A.: *See—*
Peterson, Francis C.; Rodseth, William G.; and Spring, William A., 4,652,971, Cl. 361-386.000.

Springen, Nancy L.: *See—*
Advani, Hira; Loucks, Larry K.; and Springen, Nancy L., 4,649,479, Cl. 864-300.000.

Springer, Hartmut; and Konig, Gerd, to Hoechst Aktiengesellschaft. 4,4'-bis-(β-hydroxyethylsulfonyl)-biphenyl and its esters. 4,659,856, 4-21-87, Cl. 558-26.000.

Springer, Hartmut: *See—*
Meininger, Fritz; Mischke, Peter; Konig, Gerd; and Springer, Hartmut, 4,693,726, Cl. 8-547.000.

Springer, Helmut: *See—*
Bahrmann, Helmut; Cornils, Boy; Lipps, Wolfgang; Lappe, Peter; and Springer, Helmut, 4,673,535, Cl. 260-501.150.
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Funghini, Augusto; Schwab, Dieter; and Springer, Helmut, 4,648,837, Cl. 432-122.000.

Springer, Johann B., to Smith International, Inc. Casing mill. 4,710,074, 12-1-87, Cl. 408-200.000.

Springer, Joseph. Disposable lighter. 4,687,437, 8-18-87, Cl. 431-277.000.

Springer, Kenneth D.: *See—*
Popek, Marc H.; and Springer, Kenneth D., 4,675,872, Cl. 372-10.000.

Springer, Richard A.: *See—*
Houda, Pavel; Springer, Richard A.; and Belshee, Rodney B., 4,660,029, Cl. 340-744.000.

Springer, Thomas E.: *See—*
Vanderborgh, Nicholas E.; Springer, Thomas E.; and Huff, James R., 4,650,727, Cl. 429-19.000.

Springfield Wire, Inc.: *See—*
Beauregard, William W.; and Fessenden, Peter J., 4,689,878, Cl. 29-611.000.

Springford, Richard H.: *See—*
Gasowski, Chester J.; Loeffler, Ronald L.; Musteric, Joseph T.; Springford, Richard H.; and Toth, Robert L., Jr., 4,635,696, Cl. 152-528.000.

Springmeier, Ursula: *See—*
Schepky, Gottfried; Brickl, Rolf; Gruber, Peter; Schmid, Jochen; and Springmeier, Ursula, 4,650,664, Cl. 424-456.000.

Springs Industries, Inc.: *See—*
Dugan, Jeffrey S., 4,682,379, Cl. 5-500.000.
Payet, George L.; and Ballard, Stephen C., 4,693,771, Cl. 156-73.300.

Sprinkel, Francis M., Jr., to Philip Morris Incorporated. Adjustable filter cigarette with tactile indicator. 4,699,158, 10-13-87, Cl. 131-336.000.

Sprinkel, Francis M., Jr.: *See—*
Houck, Willie G., Jr.; Sprinkel, Francis M., Jr.; Newsome, Reginald W.; Spruill, David B.; and Nichols, Walter A., 4,687,008, Cl. 131-335.000.

Kallianos, Andrew G.; Sprinkel, Francis M., Jr.; and Decker, Paula, 4,677,995, Cl. 131-335.000.

Sprinter System AB: *See—*
Wallin, Kay, 4,651,881, Cl. 209-617.000.
Wallin, Kay, 4,672,792, Cl. 53-374.000.

Sprintschnik, Gerhard: *See—*
Reiss, Kurt; Niederstatter, Walter; Stroszynski, Joachim; Bohm, Dieter; and Sprintschnik, Gerhard, 4,655,136, Cl. 101-459.000.
Simon, Ulrich; Beutel, Reiner; and Sprintschnik, Gerhard, 4,689,272, Cl. 428-448.000.

Sproccati, Osvaldo; and Tettamanti, Enrico, to Tecnopinz S.A. Very high precision self-centering collet. 4,699,388, 10-13-87, Cl. 279-48.000.

Sproch, James D.: *See—*
Pechar, Henry W., Jr.; and Sproch, James D., 4,638,459, Cl. 365-104.000.

Sproessler, Bruno: *See—*
Plainer, Hermann; Sproessler, Bruno; and Uhlig, Helmut, 4,684,525, Cl. 426-16.000.

Sproul, Fred C., Sr. Combination valance and conditioned air admission and return ducts. 4,672,887, 6-16-87, Cl. 98-31.600.

Sproul, Richard M.: *See—*
Henderson, William D.; Patel, Dhirajlal C.; Rood, Dennis D.; and Sproul, Richard M., 4,671,354, Cl. 166-134.000.

Sproul, Robert W.; and Ponzo, Michael F. Phase shifter. 4,682,128, 7-21-87, Cl. 333-139.000.

Sproul, William D.; and Nibert, Roger K., to Borg-Warner Corporation. Process and kit for working metals. 4,670,172, 6-2-87, Cl. 252-49.300.

Sprouse, Michael L. Glass breaking tool. 4,693,403, 9-15-87, Cl. 225-2.000.

Sprout, Oliver S., to Pennwalt Corporation. Production of piezoelectric dielectric films by poling in stack form. 4,675,959, 6-30-87, Cl. 29-25.350.

Spruck, Bernd; and Gerber, Siegfried, deceased (by Gerber, Hannelore, Silvia Gerber, Eberhard Gerber, Bernhard Gerber, legal representatives), to Carl-Zeiss-Stiftung. Attenuator for extraneous light fluctuations in a microscope with automatic brightness control. 4,714,823, 12-22-87, Cl. 250-205.000.

Sprugel, Friedrich; and Koppel, Manfred. Process, apparatus and agent for the continuous supply of internal combustion engines and/or auxiliary devices thereof with additives. 4,662,327, 5-5-87, Cl. 123-198.00A.

Spruiell, Jerry L.: *See—*
Spruiell, Walter L.; and Spruiell, Jerry L., 4,670,139, Cl. 210-167.000.

Spruiell, Walter L.; and Spruiell, Jerry L. Drilling mud cleaning machine. 4,670,139, 6-2-87, Cl. 210-167.000.

Spruill, David B.: *See—*
Houck, Willie G., Jr.; Sprinkel, Francis M., Jr.; Newsome, Reginald W.; Spruill, David B.; and Nichols, Walter A., 4,687,008, Cl. 131-335.000.

Spruit, Johannes H. M.: *See—*
Vriens, Leendert; Spruit, Johannes H. M.; Rijpers, Johannes C. N.; and Brandsma, Titus E. C., 4,634,926, Cl. 313-474.000.
Vriens, Leendert; Spruit, Johannes H. M.; Rijpers, Johannes C. N.; and Brandsma, Titus E. C., 4,647,812, Cl. 313-474.000.
Vriens, Leendert; Clark, John A.; and Spruit, Johannes H. M., 4,683,398, Cl. 313-474.000.

Sprung, Douglas L.; and Sprung, John P. D., to Pipemakers, Inc. Mobile pipe mill. 4,651,914, 3-24-87, Cl. 228-7.000.

Sprung, Douglas L., to Pipemakers, Inc. Mobile pipe mill. 4,651,915, 3-24-87, Cl. 228-7.000.

Sprung, John P. D.: *See—*
Sprung, Douglas L.; and Sprung, John P. D., 4,651,914, Cl. 228-7.000.

Sprunt, Eve S.; Humphreys, Neil V.; Muegge, Ernest L.; and Dixon, James R., Jr., to Mobil Oil Corporation. Method for determining lithological characteristics of a porous material. 4,688,238, 8-18-87, Cl. 378-4.000.

Sprute, Fritz A., to Sherwin-Williams Company, The. Cap connecting propellant container with material container. 4,681,262, 7-21-87, Cl. 239-306.000.

SPS Technologies, Inc.: *See—*
Landt, Richard C., 4,657,459, Cl. 411-188.000.
Wallace, Paul, 4,676,109, Cl. 73-761.000.
Wallace, Paul, 4,686,859, Cl. 73-761.000.

Spurdens, Paul C.: *See—*
Moss, Rodney H.; and Spurdens, Paul C., 4,664,743, Cl. 156-613.000.

Spurgeon, Colleen J.: *See—*
Choy, Clement K.; Keen, Frederick I.; Garabedian, Aram; and Spurgeon, Colleen J., 4,695,394, Cl. 252-97.000.

Spurgeon, Roger. Activator fluid for water remoistenable glue. 4,702,774, 10-27-87, Cl. 106-287.240.

Spurlin, Stanford R.; and Yeung, Edward S., to Iowa State Research Foundation, Inc. Apparatus for use in sulfide chemiluminescence detection. 4,634,574, 1-6-87, Cl. 422-52.000.

Spurlock, Jay B. Closure insert for use in building construction. 4,641,479, 2-10-87, Cl. 52-241.000.

Spurrier, Francis R.: *See—*
Draper, Robert; Young, William E.; Spurrier, Francis R.; and Dilmore, James A., 4,664,986, Cl. 429-26.000.

Spy-Mirrors, Inc.: *See—*
Harris, Richard J., Jr.; and Pickens, Frank D., 4,687,305, Cl. 350-624.000.

Spychalski, Stephen E., to United States of America, Navy. Broadband matching network. 4,644,505, 2-17-87, Cl. 367-15.000.

Spychalski, Stephen E., to United States of America, Navy. Hydrophone pre-amplifier with self-calibration. 4,689,578, 8-25-87, Cl. 330-2.000.

Spykerman, Scott A., to Prince Corporation. Visor mounting clip. 4,679,843, 7-14-87, Cl. 296-97.00K.

Spykerman, Scott A.: *See—*
Boote, Carey J.; Robbins, Craig; and Spykerman, Scott A., 4,648,011, Cl. 362-135.000.
Hemmeke, Ronald L.; and Spykerman, Scott A., 4,681,363, Cl. 296-97.00G.

Spymark, Incorporated: *See—*
Cockerell, William C., Jr., 4,698,781, Cl. 364-561.000.
Storms, Harrison A., Jr.; and Cockerell, William C., Jr., 4,703,444, Cl. 364-561.000.

Squaratti, Armand: *See—*
Kulla, Hans; Lehky, Pavel; and Squaratti, Armand, 4,708,936, Cl. 435-128.000.

Squarcia, Francesco: *See—*
Delprato, Ivano; and Squarcia, Francesco, 4,668,610, Cl. 430-385.000.

Square D Company: *See—*
Borrett, Ronald D.; and Zylstra, Henry J., 4,652,965, Cl. 361-94.000.
Bush, Austin L.; Apperson, Kenneth P.; and Todd, Jerald C., 4,667,502, Cl. 72-453.160.
Buxton, Clifford A.; Higgins, David C.; and Volesky, Gary A., 4,693,132, Cl. 74-425.000.
Durivage, Leon W.; and Farrington, Ronald L., 4,706,155, Cl. 361-64.000.
Dvorak, Robert F.; and Netolicky, Charles E., 4,638,133, Cl. 200-302.100.
Dvorak, Robert F.; Netolicky, Charles E.; and Palmer, Neil R., 4,681,061, Cl. 116-279.000.
Dvorak, Robert F., 4,712,151, Cl. 361-47.000.
Dvorak, Robert F., 4,714,975, Cl. 361-44.000.
Erb, Fred; and Orosz, Miklos J., 4,635,014, Cl. 335-195.000.
Harmon, Eldred R., 4,705,918, Cl. 174-73.00R.
Hoelzer, John S.; Graefe, Richard J.; and Libert, James T., 4,714,977, Cl. 361-196.000.
Jorgensen, George N.; McGoldrick, Gilbert A.; and Slicer, Allan E., 4,673,229, Cl. 439-207.000.
Kampf, Julian C.; Reichard, Jeffrey A.; Libert, James T.; Curran, Earl J., Jr., and Graefe, Richard J., 4,634,951, Cl. 318-778.000.
Lehman, Lewis M., 4,684,772, Cl. 200-144.00R.
Libert, James T.; and Curran, Earl J., Jr., 4,710,692, Cl. 318-729.000.
Maulandi, Aymon A., 4,639,561, Cl. 200-33.00R.
McGoldrick, Gilbert A.; and Slicer, Allan E., 4,714,431, Cl. 439-212.000.
Nichols, E. Lane, III; Hooper, William P.; and Leynse, Kenneth J., 4,685,022, Cl. 361-44.000.
Noth, Myron A., 4,642,478, Cl. 307-118.000.
Profio, Mark V.; and Libert, James T., 4,647,825, Cl. 318-395.000.
Schmiedel, James P.; and Tschanz, Lee R., 4,647,886, Cl. 335-132.000.
Schmiedel, James P.; and Moye, Lawrence D., 4,705,341, Cl. 439-544.000.
Slicer, Allan E.; and Whitney, Robert I., 4,705,334, Cl. 439-210.000.
Tringali, Dominick, 4,677,269, Cl. 200-324.000.

Square D Starkstrom GmbH: *See—*
Grunst, Heinz, 4,703,141, Cl. 200-340.000.
Lemmer, Helmut; and Risthaus, Josef, 4,688,011, Cl. 335-159.000.
Lemmer, Helmut, 4,691,978, Cl. 439-620.000.
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Ludwig, Bernd; and Stiehl, Dirk, 4,713,498, Cl. 200-5.00R.

Square Grip Limited: *See—*
Clapson, John D., 4,707,955, Cl. 52-98.000.

Squire, Molly A.; and Sawicki, Wasyl. Binder assembly for publications and retainers for same. 4,645,237, 2-24-87, Cl. 281-47.000.

Squire, Richard H.: *See—*
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Squires, Daniel R. Cutter for carpet tiles. 4,646,439, 3-3-87, Cl. 30-289.000.

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Fillman, Russell L.; and Srajer, Reinhard, 4,653,522, Cl. 137-1.000.

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Srebnik, Jack; and Reese, Robert, to Sherwood Medical Company. Enteral nutrition delivery system. 4,688,595, 8-25-87, Cl. 137-343.000.

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oh, Reiner; Kotzsch, Hans-Joachim; Srebny, Hans-Gunther; and
Vahlensieck, Hans-Joachim, 4,642,363, Cl. 556-471.000.
mar, Chandra: *See*—
exandrovich, Peter S.; Manthey, Joseph W.; May, John W.; and
Sreekumar, Chandra, 4,681,828, Cl. 430-97.000.
mar, Chandrasekha: *See*—
yers, Drewfus Y., Jr.; Alexandrovich, Peter S.; Pearce, Glenn T.;
Santilli, Domenic; Sreekumar, Chandrasekha; Berwick, Martin
A.; Upson, Donald A.; and Goebel, William K., 4,708,923, Cl.
430-112.000.
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idges, Jack E.; Taflove, Allen; and Sresty, Guggilam C.,
4,645,004, Cl. 166-248.000.
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4,662,438, Cl. 166-245.000.
iternational: *See*—
cton, Edward M.; Ryan, Kenneth J.; and Tracy, Michael,
4,705,850, Cl. 536-1.100.
imquist, Ronald G.; and Olsen, Cris M., 4,705,778, Cl. 514-15.000.
ndeen, Gerry B.; Shrader, Eric J.; and Kornbluh, Roy D.,
4,637,736, Cl. 374-45.000.
ndeen, Gerry B., 4,637,783, Cl. 417-318.000.
rowe, David F.; Tanabe, Masato; and Peters, Richard, 4,705,783,
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dson, William A.; Nelson, Raymond A.; and Frankel, Michael S.,
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eppers, Norman A.; and Schaefer, Louis F., 4,714,310, Cl.
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Vatjen, Jonn P., 4,675,605, Cl. 324-240.000.
Veaver, Charles S.; and Chittenden, Constance T., 4,649,929, Cl.
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Ialioua, Maurice; and Srinivasan, Venugopal, 4,641,972, Cl.
356-376.000.
vasan, Viswanathan: *See*—
Michalski, Dennis H.; and Srinivasan, Viswanathan, 4,639,359, Cl.
423-321.00R.
n, Subramanian: *See*—
teinman, Lawrence; Waldor, Matthew K.; Sriram, Subramanian;
Herzenberg, Leonard A.; and Herzenberg, Leonore A.,
4,695,459, Cl. 424-95.000.
stava, Gopal K.: *See*—
ai, Stephen H.; and Srivastava, Gopal K., 4,651,062, Cl.
315-371.000.
stava, Vinai K.: *See*—
Carter, Walter H.; and Srivastava, Vinai K., 4,682,654, Cl.
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chael L., 4,715,962, Cl. 210-708.000.
Svenska Rotor Maskiner Aktiebolag: *See*—
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Srnsky, Randy A.: *See*—
Blackwelder, Ron F.; Gad-el-Hak, Mohamed; and Srnsky, Randy
A., 4,697,769, Cl. 244-199.000.
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Borel, Denis, 4,702,623, Cl. 384-45.000.
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Engel, Hans-Joachim; and Vopat, Jaroslav, 4,699,522, Cl.
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Eger, Georg; and Srock, Rainer, 4,689,849, Cl. 16-82.000.
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for drying polyimide film. 4,687,611, 8-18-87, Cl. 264-236.000.
SRX Corporation: *See*—
Johnson, Charles B.; Box, Jeffrey L.; and Hildebrand, David B.,
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SS Pharmaceutical Co., Ltd.: *See*—
Nishikawa, Yoshihiro; Kanemitsu, Kimihiro; Katori, Tatsuhiko;
Shibata, Akihiro; and Kukita, Kenichi, 4,684,719, Cl.
536-119.000.
Sato, Susumu; Honda, Haruyoshi; Koumoto, Teruo; Isomae,
Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,659,710, Cl.
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Kazuo; Kuraishi, Tadayuki; and Katori, Tatsuhiko, 4,690,924, Cl.
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SSAB Svenskt Stal AB: *See*—
Lindgren, Nils E., 4,638,831, Cl. 137-117.000.
Lindgren, Nils E., 4,657,223, Cl. 251-61.200.
SSI Medical Services, Inc.: *See*—
Paul, Patrick R. D.; and Price, James H., 4,694,520, Cl. 5-453.000.
SSI Technologies, Inc.: *See*—
Day, William J., 4,700,133, Cl. 324-208.000.
Mattes, Michael F.; and Dorland, Mark A., 4,712,648, Cl.
184-6.400.
Wendt, David L., 4,674,335, Cl. 73-745.000.
Wendt, David L., 4,694,812, Cl. 123-571.000.
SSMC Inc.: *See*—
Adams, Kenneth D., 4,694,763, Cl. 112-184.000.
Brauch, Robert B.; Sedlatschek, Robert; and Huang, Pao-Ter,
4,651,662, Cl. 112-258.000.
Brown, John; Garron, Stephen A.; and Wurst, John W., 4,712,496,
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Morgan, Francis, 4,660,485, Cl. 112-467.000.
S + T Marketing AG: *See*—
Tritt, Eugen, 4,681,105, Cl. 128-303.170.
Sta-Rite Industries, Inc.: *See*—
Marietta, Walter E., 4,638,886, Cl. 187-8.490.
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Staab, Paul C.: *See*—
Ahmad, Shamim; Kraus, Larry A.; and Staab, Paul C., 4,644,988,
Cl. 152-209.00R.
Staab, Rudolf; Bergner, Dieter; and Hannesen, Kurt, to Hoechst Ak-
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electrodes. 4,639,303, 1-27-87, Cl. 204-258.000.
Staal, Leendert H.: *See*—
Van Leeuwen, Willem A.; Poels, Eduard K.; Staal, Leendert H.;
and Verzijl, Dirk, 4,665,048, Cl. 502-221.000.
Staalkat B.V.: *See*—
van Asselt, Peter A.; and Hordijk, Jan, 4,671,652, Cl. 356-66.000.
van der Schoot, Jelie, 4,708,250, Cl. 209-592.000.
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Staar, Marcel, 4,679,183, Cl. 369-84.000.
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Agostini, Louis P. C., 4,674,079, Cl. 369-77.100.
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369-77.100.
Staar S.A.: *See*—
d'Alayer de Costemor d'Arc, Stephane, 4,701,899, Cl. 369-36.000.
d'Alayer de Costemore d'Arc, Stephane, 4,635,156, Cl.
360-132.000.
d'Alayer de Costemore d'Arc, Stephane A. M., 4,675,858, Cl.
369-77.100.
d'Alayer de Costemore d'Arc, Stephane M. A., 4,706,233, Cl.
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Schatteman, Etienne A. M.; and Denis, Philippe V., 4,664,454, Cl.
312-13.000.
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Mazzocco, Thomas R., 4,702,244, Cl. 128-303.00R.
Staat der Nederlanden (Staatsbedrijf der Posterijen, Telegrafie en
Telefonie): *See*—
Prins, Geert J., 4,687,106, Cl. 209-552.000.
Van Eck, Willem, 4,669,117, Cl. 380-14.000.
van Leijenhorst, Harro M.; and Suringh, Jan F., 4,691,586, Cl.
74-479.000.

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De Blok, Cornelis M.; and Matthijsse, Pieter, 4,645,923, Cl. 250-227.000.

Staats, Charles W., to Bradford-White Corporation. Direct power vented water heater. 4,672,919, 6-16-87, Cl. 122-13.00R.

Staats, James E.; and Fitzmayer, Louis H., to General Electric Company. Triangular antenna array for microwave oven. 4,695,693, 9-22-87, Cl. 219-10.55F.

Staats, James E.: *See—*
Fitzmayer, Louis H.; Staats, James E.; and Miller, Matthew S., 4,642,435, Cl. 219-10.55F.

Stabilator AB: *See—*
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Primati, Marco, 4,642,921, Cl. 38-36.000.

Stabilus GmbH: *See—*
Freitag, Herbert; Fuhrmann, Castor; and Kortgen, Bernd, 4,651,979, Cl. 267-64.130.
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Lauderbach, Leo, 4,692,057, Cl. 403-334.000.
Lauderbach, Leo, 4,706,333, Cl. 16-289.000.
Siemann, Martin; and Luhn, Wolfgang, 4,647,026, Cl. 267-64.150.
Siemann, Martin, 4,650,165, Cl. 267-64.110.

Stabinsky, Yitzhak, to Amgen. Manufacture and expression of structural genes. 4,652,639, 3-24-87, Cl. 536-27.000.

Stabinsky, Yitzhak, to Amgen. Consensus human leukocyte interferon. 4,695,623, 9-22-87, Cl. 530-351.000.

Stabinsky, Yitzhak: *See—*
Caruthers, Marvin H.; Leineweber, Michael; Leitner, Moshe; and Stabinsky, Yitzhak, 4,716,217, Cl. 530-351.000.

Stabler, Gerhard, to Santrade Ltd. Sealing arrangement for a medium-containing chamber of a dual belt press. 4,714,015, 12-22-87, Cl. 100-154.000.

Stabler, S. Russell: *See—*
Connor, David T.; Unangst, Paul C.; and Stabler, S. Russell, 4,675,332, Cl. 514-381.000.

Stacchino, Giuseppe: *See—*
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Stacey, Eric J.; and Brennen, Michael B., to Westinghouse Electric Corp. Active power conditioner system. 4,651,265, 3-17-87, Cl. 363-35.000.

Stacey, Eric J., to Westinghouse Electric Corp. Multiphase frequency selective phase locked loop with multiphase sinusoidal and digital outputs. 4,669,024, 5-26-87, Cl. 361-85.000.

Stacey, Eric J.: *See—*
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Stacey, Ralph E., to Green Bay Packaging Inc. One-piece folded box construction having a hinged wall. 4,640,456, 2-3-87, Cl. 229-122.000.

Stacey, Robert E.: *See—*
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Stach, Leonard J.: *See—*
Nickell, Louis G.; Stach, Leonard J.; and Hokama, Takeo, 4,661,148, Cl. 71-94.000.
Nickell, Louis G.; Stach, Leonard J.; and Hokama, Takeo, 4,662,934, Cl. 71-94.000.
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Stach, Robert G.: *See—*
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Stachowiak, Stephen A.: *See—*
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Stachowicz, Michael J.: *See—*
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Stachura, Joseph F.: *See—*
Burgit, Richard A.; Davis, Newton G.; Goyert, Josita M.; Johnson, Keith, Jr.; Long, Robert A.; and Stachura, Joseph F., 4,633,570, Cl. 29-564.400.

Stacik, Harold S.; and Hafstrom, Warren R., to Whirlpool Corporation. Open lid latching mechanism for automatic washer. 4,709,951, 12-1-87, Cl. 292-189.000.

Stack, Gary P.: *See—*
Abou-Gharbia, Magid A.; and Stack, Gary P., 4,675,403, Cl. 544-230.000.

Stackhouse, David W., to Custodis-Ecodyne. Gas/liquid contact apparatus. 4,670,197, 6-2-87, Cl. 261-112.000.

Stackhouse, David W.; and Heidl, Stephen C., to Research-Cottrell, Inc. Splash bar for cooling tower fill assembly. 4,705,653, 11-10-87, Cl. 261-111.000.

Stackhouse, Donald C.: *See—*
Harlamert, W. Benjamin; and Stackhouse, Donald C., 4,699,568, Cl. 416-95.000.

Stackman, Robert W., to Celanese Corporation. Anisotropic heat-curable acrylic terminated monomers. 4,683,327, 7-28-87, Cl. 560-86.000.

Stacks, Ronald R. Method of treating wells with aqueous foam. 4,681,164, 7-21-87, Cl. 166-304.000.

Stacy, Carl W.; and Chamberlain, William, to Zenith Electronics Corporation. Power down sense circuit. 4,716,463, 12-29-87, Cl. 358-190.000.

Stacy, Jack C., Jr. Single laterally bendable track snowmobile. 4,714,125, 12-22-87, Cl. 180-182.000.

Stadden, Richard S. Dual action geneva cam and rotary internal combustion engine and pump utilizing same. 4,679,535, 7-14-87, Cl. 123-245.000.

Stade, John H., to Mallinckrodt, Inc. Power syringe with volume reducing adapter. 4,636,198, 1-13-87, Cl. 604-154.000.

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Stadeli Lift AG: *See—*
Stalder, Dieter A., 4,665,755, Cl. 73-862.010.

Stadelmann, George A.; and Watney, John P., to Ampex Corporation. Information signal recording and/or playback system and method using a prerecorded reference track. 4,675,760, 6-23-87, Cl. 360-77.000.

Stader, Harald, to Siemens Aktiengesellschaft. Circuit arrangement for suppressing interference signals on the receiving arm of a telephone subscriber line circuit. 4,701,947, 10-20-87, Cl. 379-124.000.

Stadius, John R., to Soundout Laboratories, Ltd. Electrical signal mixing apparatus. 4,635,288, 1-6-87, Cl. 381-119.000.

Stadjuhar, Robert C.; and Renfro, Cecil S., to Skyline Products, Inc. Scroll module and sign system for internally illuminated signs. 4,680,883, 7-21-87, Cl. 40-471.000.

Stadler, Eberhard: *See—*
Melcher, Franz-Josef; Maaz, Gunther; Bierich, Eduard; Stadler, Eberhard; and Berg, Christoph, 4,653,600, Cl. 177-229.000.

Stadler, Gerald: *See—*
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Stadler, Hansjorg: *See—*
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Stadler, Heinz: *See—*
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Stadler, Karl: *See—*
Bunk, Axel; Eichelbronner, Gottfried; Haake, Rainer; Stadler, Karl; and Gaugel, Manfred, 4,659,318, Cl. 445-54.000.

Stadler, Peter; Lockhoff, Oswald; Opitz, Hans-Georg; and Schaller, Klaus, to Bayer Aktiengesellschaft. N-glycosylated carboxamide derivatives and their use for influencing the body's inherent defences. 4,683,222, 7-28-87, Cl. 514-42.000.

Stadler, Peter: *See—*
Keutgen, Franz; Kubon, Achim; Perings, Dieter; Stadler, Peter; Voss-Spilker, Peter; and Apel, Karl-Hermann, 4,714,105, Cl. 164-420.000.
Kruger, Bernd-Wieland; Hayauchi, Yutaka; Lockhoff, Oswald; Stadler, Peter; Metzger, Karl G.; Stunkel, Klaus G.; and Zeiler, Hans-Joachim, 4,699,899, Cl. 514-42.000.
Lockhoff, Oswald; Stadler, Peter; Scheer, Martin; Berschauer, Friedrich; and de Jong, Anno, 4,680,287, Cl. 514-42.000.
Lockhoff, Oswald; Kruger, Bernd-Wieland; Stadler, Peter; Paessens, Arnold; Streissle, Gert; Taylor, Peter; Zeiler, Hans-Joachim; and Metzger, Karl-Georg, 4,686,208, Cl. 514-42.000.
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Stadlmeier, Hans; and Strutynski, Waldemar, to Siemens Aktiengesellschaft. Method and arrangement for the controlling of the operating process in data processing installations with microprogram control. 4,653,018, 3-24-87, Cl. 364-900.000.

Stadnick, Steven J.; and Rogers, Howard H., to Hughes Aircraft Company. Process for preventing electrical storage cell capacity loss. 4,683,178, 7-28-87, Cl. 429-101.000.

Stadnick, Steven J.; and Rogers, Howard H., to Hughes Aircraft Company. Control of the charging of pressurized gas-metal electrical storage cells. 4,689,544, 8-25-87, Cl. 320-46.000.

Stadt, Enno; and Helfer, Friedrick, to J.M. Voith, GmbH. Planetary gear control system with retarder. 4,699,022, 10-13-87, Cl. 74-782.000.

Stadtfeld, Gerhard: *See—*
Monheim, Peter; and Stadtfeld, Gerhard, 4,702,303, Cl. 164-491.000.

Stadtmuller, Gunter: *See—*
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Staehle, Brad G.: *See—*
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Staehle, Bruce E.: *See—*
Bricker, Jeffery C.; and Staehle, Bruce E., 4,705,620, Cl. 208-206.000.

Staendeke, Horst: *See—*
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Fuchs, Fritz-Reichard; and Staendeke, Horst, 4,670,484, Cl. 523-205.000.
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Staepels, Johnny: *See—*
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Staerzl, Richard E., to Brunswick Corporation. Electronic fuel injection with fuel optimization and exhaust pressure feedback. 4,643,147, 2-17-87, Cl. 123-357.000.

Staerzl, Richard E., to Brunswick Corporation. Gated knock detector for internal-combustion engines. 4,667,637, 5-26-87, Cl. 123-435.000.

rzl, Richard E., to Brunswick Corporation. Starting-enrichment ontrol for a fuel-injected engine. 4,691,680, 9-8-87, Cl. 123-491.000.
rzl, Richard E., to Brunswick Corporation. Throttle-position signal enerator for an electronic fuel-injection system. 4,711,219, 12-8-87, l. 123-494.000.
rzl, Richard E., to Brunswick Corporation. Engine idle stabilization ming circuit. 4,712,527, 12-15-87, Cl. 123-418.000.
rzl, Richard E., to Brunswick Corporation. Electronic fuel injec- on circuit with altitude compensation. 4,714,067, 12-22-87, Cl. 3-494.000.
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Davenport, Frank A., 4,656,960, Cl. 114-144.00R.
f Co., Ltd.: *See*—
Todokoro, Masatoshi, 4,650,192, Cl. 273-1.0GG.
ford, Frank K.; and Nasby, Robert C. Movable roof support and olter system. 4,676,697, 6-30-87, Cl. 405-291.000.
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ford, George C., Jr.: *See*—
Fies, William J., Jr.; Kelley, Paul E.; Reynolds, Walter E.; Stafford, George C., Jr.; and Syka, John E. P., 4,650,999, Cl. 250-282.000.
ford, Gilbert A. Shell having pyramid shaped shot. 4,686,904, 18-87, Cl. 102-439.000.
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ford, James F. X.: *See*—
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ford, John P.: *See*—
DuPont, Preston S.; Ritter, Robert E.; and Stafford, John P., 4,705,646, Cl. 252-511.000.
ford, Lannon F. Controlled air-flow aircraft capable of vertical ight. 4,709,879, 12-1-87, Cl. 244-17.100.
ford, Robert; and Cook, Gregory J. Building structure with trans- ersely tensioned fabric covering. 4,644,706, 2-24-87, Cl. 52-63.000.
fford, Rodney L.: *See*—
Fry, Steven A.; and Stafford, Rodney L., 4,679,840, Cl. 296-64.000.
fford, Trevor G., to British Gas Corporation. Apparatus for fusion oining of thermoplastic pipes. 4,640,732, 2-3-87, Cl. 156-358.000.
ge, Hermann. Process for degassing, dehydrating and precut separa- on in straight-run distillation of crude fatty acids. 4,680,092, 7-14-87, Cl. 203-22.000.
ge Rite Corporation: *See*—
Rogers, O. David; Bardwick, John, III; and Staten, Kenneth, 4,638,604, Cl. 52-6.000.
geboe, Jan; and Gjeruldsen, Erik. Tension leg platform. 4,702,648, 0-27-87, Cl. 405-224.000.
ger, Wolfgang: *See*—
Wulf, Rudolf; and Stager, Wolfgang, 4,638,632, Cl. 60-319.000.
ggs, Darrell W., to UOP Inc. Combination process for the conver- ion of a residual asphaltene-containing hydrocarbonaceous stream to naximize middle distillate production. 4,715,947, 12-29-87, Cl. 208-68.000.
ggs, Kevin P.; and Clarke, Charles J., Jr., to Honeywell Inc. Mem- ry access modes for a video display generator. 4,663,619, 5-5-87, Cl. 340-750.000.
ggs, Kevin P.: *See*—
Clarke, Charles J., Jr.; and Staggs, Kevin P., 4,668,947, Cl. 340-709.000.
heli, Christoph: *See*—
Binder, Rolf; Hanselmann, Daniel; and Staheli, Christoph, 4,660,257, Cl. 19-80.00R.
heli, Paul; Stahli, Urs; and Knabenhaus, Fritz, to Maschinenfabrik Rieter AG. Arrangement for transporting fiber flocks. 4,648,754, 3-10-87, Cl. 406-156.000.
heli, Paul, to Maschinenfabrik Rieter AG. Transport duct for fiber locks. 4,696,608, 9-29-87, Cl. 406-155.000.
heli, Theodor, to Ciba-Geigy Corporation. Dispensing device for toring and applying at least one liquid or pasty substance. 4,690,306, 9-1-87, Cl. 222-80.000.
hl, Alan L.: *See*—
Foley, Donald E.; Gipp, Gregory H.; Schwader, William G.; Sells, Craig L.; Smittkamp, James A.; Stahl, Alan L.; and Szentes, John F., 4,635,739, Cl. 177-45.000.
hl Aufzuge GmbH & Co. KG: *See*—
Doege, Joachim; Paschke, Hanns-Dieter; and Tran, Ke D., 4,659,278, Cl. 414-680.000.
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hl, Bernhard; and Bohm, Horst, to Optima Spanntechnik GmbH. Clamping device. 4,697,800, 10-6-87, Cl. 269-32.000.
hl, Charles R.; Gibson, Michael A.; and Knudsen, Christian W., to Carbotek, Inc. Thermally-enhanced oil recovery method and appara- us. 4,694,907, 9-22-87, Cl. 166-303.000.
hl, Daniel E.: *See*—
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Hall, Lawrence A.; and Stahl, Daniel E., 4,634,208, Cl. 339-143.00R.
hl, Douglas C., to GTE Communication Systems Corporation. High fficiency ringing generator. 4,648,019, 3-3-87, Cl. 363-43.000.
hl, G. Allan, to Phillips Petroleum Company. Production of high nolecular weight vinyl lactam polymers and copolymers. 4,644,020, 2-17-87, Cl. 522-79.000.
hl, G. Allan: *See*—
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Orlowski, Ronald C.; Stahl, Glenn L.; and Colescott, Robert L., 4,639,509, Cl. 530-307.000.
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Stahl, Hans G.; Hohlein, Peter; Traenckner, Hans-Joachim; Fleiter, Lothar; and Schwindt, Jurgen, to Bayer Aktiengesellschaft. Process for the production of siccativated aqueous lacquers with polybutadiene/maleic acid anhydride adducts as bonding agent. 4,684,691, 8-4-87, Cl. 524-534.000.
Stahl, Henrik O.; and Rostrup-Nielsen, Jens R. Heat exchange reforming process and reactor. 4,678,600, 7-7-87, Cl. 252-373.000.
Stahl, Jurgen: *See*—
Coesfeld, Dieter; Hugemann, Bernhard; Scondo, Ludwig; Schuster, Wilhelm; Schwabe, Hans D.; Stahl, Jurgen; and Stosser, Klaus, 4,658,644, Cl. 73-146.800.
Stahl, Leo, to Leo Stahl AG. Drive for vehicles. 4,715,459, 12-29-87, Cl. 180-6.480.
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Stahl, Peter H.; and Schmitz, Beat, to Ciba-Geigy Corporation; and Henkel Kommanditgesellschaft auf Aktien. Preparation of crystalline disodium 3-amino-1-hydroxypropane-1,1-diphosphonate pentahydrate. 4,639,338, 1-27-87, Cl. 260-502.50C.
Stahl, Peter H.; and Schmitz, Beat, to Ciba-Geigy Corporation; and Henkel Kommanditgesellschaft auf Aktien. Crystalline disodium 3-amino-1-hydroxypropane-1,1-diphosphonate pentahydrate. 4,711,880, 12-8-87, Cl. 514-108.000.
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Stahl, Torvald, to ITT Industries, Inc. Connection socket for a submersible electric motor. 4,710,658, 12-1-87, Cl. 310-71.000.
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Stahlecker, Fritz; and Stahlecker, Hans, to Stahlecker, Fritz; and Stahlecker, Hans. Fiber feed channel arrangement for open end friction spinning machine. 4,638,626, 1-27-87, Cl. 57-401.000.
Stahlecker, Fritz; and Stahlecker, Hans. Fitting for opening rollers. 4,646,389, 3-3-87, Cl. 19-97.000.
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Stahlecker, Fritz; and Lang, Kurt, to Stahlecker, Fritz; and Stahlecker, Hans. Arrangement for open-end friction spinning. 4,653,264, 3-31-87, Cl. 57-401.000.
Stahlecker, Fritz; and Raasch, Hans, to Stahlecker, Fritz; and Stahlecker, Hans. Open-end spinning machine having a plurality of spinning units and a movable servicing apparatus. 4,653,265, 3-31-87, Cl. 57-406.000.
Stahlecker, Fritz, to Stahlecker, Hans. Apparatus for open-end friction spinning. 4,656,826, 4-14-87, Cl. 57-401.000.
Stahlecker, Fritz, to Stahlecker, Fritz; and Stahlecker, Hans. Driving arrangement for open-end friction spinning machines. 4,660,372, 4-28-87, Cl. 57-401.000.
Stahlecker, Fritz, to Stahlecker, Hans; and Stahlecker, Fritz. Spinning machine maintenance unit with fly catching needle. 4,662,167, 5-5-87, Cl. 57-303.000.
Stahlecker, Fritz; and Stahlecker, Hans, to Stahlecker, Hans; and Stahlecker, Fritz. Pneumatic yarn control arrangement for open-end friction spinning. 4,662,168, 5-5-87, Cl. 57-401.000.
Stahlecker, Fritz; Feuchter, Wolfgang; Gotz, Dieter; Schmid, Friedbert; and Zott, Werner, to Stahlecker, Hans; and Stahlecker, Fritz. Bearing and driving arrangement for a spinning rotor of an open-end spinning machine. 4,667,464, 5-26-87, Cl. 57-406.000.
Stahlecker, Fritz; and Feuchter, Wolfgang, to Stahlecker, Hans; and Stahlecker, Fritz. Arrangement for open-end friction spinning. 4,672,803, 6-16-87, Cl. 57-401.000.
Stahlecker, Fritz; and Stahlecker, Hans. Open-end spinning machine with a plurality of spinning units having a movable maintenance device. 4,676,060, 6-30-87, Cl. 57-263.000.
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Stahlecker, Fritz, to Stahlecker, Hans; and Stahlecker, Fritz. Friction roller for open-end friction spinning. 4,677,815, 7-7-87, Cl. 57-401.000.
Stahlecker, Fritz, to Stahlecker, Hans; and Stahlecker, Fritz. Method and apparatus for operating an open-end friction spinning machine. 4,677,819, 7-7-87, Cl. 57-264.000.
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Stahlecker, Fritz, to Stahlecker, Fritz; and Stahlecker, Hans. Open-end friction spinning machine. 4,691,509, 9-8-87, Cl. 57-264.000.
Stahlecker, Fritz, to Stahlecker, Hans; and Stahlecker, Fritz. Open-end friction spinning machine provided with devices for monitoring friction characteristics and conditioning spinning surfaces. 4,704,857, 11-10-87, Cl. 57-264.000.

Stahlecker, Fritz, to Stahlecker, Fritz; and Stahlecker, Hans. Fiber feed arrangement for open-end friction spinning machines. 4,704,860, 11-10-87, Cl. 57-401.000.

Stahlecker, Fritz, to Stahlecker, Hans. Attachment device for an opening roller and a method for using the attachment device. 4,715,177, 12-29-87, Cl. 57-408.000.

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Stahler, John P., to Robot Research, Inc. Monochrome-compatible color slow scan television system. 4,651,195, 3-17-87, Cl. 358-14.000.

Stahlheber, N. Earl; and Lyon, John E., to Monsanto Company. Continuous process for preparing sodium orthophosphate slurries from natural soda ash and orthophosphoric acid. 4,661,331, 4-28-87, Cl. 423-309.000.

Stahlhofen, Paul, to Hoechst Aktiengesellschaft. Light-sensitive compound, light-sensitive mixture, and light-sensitive copying material prepared therefrom with 0-naphthoquinone diazide compound. 4,639,406, 1-27-87, Cl. 430-165.000.

Stahlhofen, Paul, to Hoechst Aktiengesellschaft. Light-sensitive positive copying material with alkali soluble polycondensation binder. 4,642,282, 2-10-87, Cl. 430-165.000.

Stahli, Urs: *See*—
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Stahly, Barbara C., to Ethyl Corporation. Chlorination process. 4,675,448, 6-23-87, Cl. 568-315.000.

Stahly, Barbara C.: *See*—
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Staibano, Giorgio, to Istituto Gentili S.p.A. Process for the preparation of diphosphonic acids. 4,705,651, 11-10-87, Cl. 260-502.50C.

Staiger, Dieter E., to International Business Machines Corporation. Method of and arrangement for generating pulses of an arbitrary time relation during immediately successive assumed pulse intervals with a very high accuracy and time resolution. 4,648,042, 3-3-87, Cl. 364-486.000.

Staiger, Eugen: *See*—
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Staiger, Gerhard; Selmayr, Tassilo; Kinzel, Peter; and Reutter, Anneliese, to Consortium für elektrochemische Industrie GmbH. Substituted phenylacetic acid iodopropargyl esters, biocidal agents containing same and process for manufacturing same. 4,639,541, 1-27-87, Cl. 560-20.000.

Stainbrook, Norbert E. Vacuum heat treating furnace and quench system with drop transfer. 4,647,017, 3-3-87, Cl. 266-89.000.

Staines, Glyn: *See*—
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Stainless Icetainer Company: *See*—
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Stairs, Henry M., Jr., to American Standard Inc. Cover plate and mounting clip assembly. 4,712,256, 12-15-87, Cl. 4-661.000.

Staisch, Diether, to WABCO Westinghouse Fahrzeugbremsen GmbH. Fluid flow control apparatus having a throttling arrangement. 4,665,796, 5-19-87, Cl. 91-178.000.

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Staite, Eric: *See*—
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Stakenborg, Addy G. F.; Heynen, Andreas T.; and Hendericks, Gerardus J. M., to Oce-Nederland B.V. Control means for varying the image-free edge zones of a copy in a reproduction device. 4,674,864, 6-23-87, Cl. 355-14.00R.

Staker, Donald D.; and Kain, William S., to National Distillers and Chemical Corporation. Derivatives of polyether glycol esters of polycarboxylic acids as rheological additives for coal-water slurries. 4,715,866, 12-29-87, Cl. 44-51.000.

Stal Refrigeration AB: *See*—
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Stalder, Dieter A., to Stadeli Lift AG. Device for monitoring the spring force exerted by spring actuated bar coupled cable clamps for chair lifts and cable cars. 4,665,755, 5-19-87, Cl. 73-862.010.

Stalder, Hans; and Sidler, Hans, to SISTAG Maschinenfabrik Sidler Stalder AG. Flat slide valve with notched guide strips. 4,646,777, 3-3-87, Cl. 137-242.000.

Stalder, Herbert; Baumgartner, Josef; and Wurmli, Arthur, to Rieter Machine Works Ltd. Method and device for spinning a yarn in accordance with the open end-friction spinning principle. 4,640,089, 2-3-87, Cl. 57-401.000.

Stalder, Herbert, to Rieter Machine Works Ltd. Method and apparatus for producing a yarn. 4,660,371, 4-28-87, Cl. 57-401.000.

Stalder, Herbert; Wurmli, Arthur; Baumgartner, Josef; and Briner, Emil, to Maschinenfabrik Rieter AG. Friction spinning device containing a friction spinning means and method of use of the friction spinning device. 4,696,155, 9-29-87, Cl. 57-401.000.

Staley, Charles L.; Harms, John R.; and Anderson, Ronald L., to J. I. Case Company. Concrete pavement breaker. 4,657,307, 4-14-87, Cl. 299-36.000.

Staley, Lester K.: *See*—
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Stallard, John A., to Johnson & Johnson. Dental tape. 4,646,766, 3-3-87, Cl. 132-91.000.

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Stallkamp, Richard A., to Wang Laboratories, Inc. Thermal print head. 4,668,962, 5-26-87, Cl. 346-76.0PH.

Stalter, Bernadette M., executrix: *See*—
Stalter, Joseph F., deceased; and Feller, Gilbert M., 4,683,021, Cl. 156-415.000.

Stalter, Joseph F., deceased (by Stalter, Bernadette M., executrix); and Feller, Gilbert M., to Goodyear Tire & Rubber Company, The. Tire building drum. 4,683,021, 7-28-87, Cl. 156-415.000.

Stalter, Robert J., to Motor Wheel Corporation. Vehicle wheel with an ornamental plastic overlay. 4,682,820, 7-28-87, Cl. 301-37.00P.

Staltmeir, Josef; and Wosegien, Bernd, to Knorr-Bremse AG. Block brake for rail vehicles. 4,650,040, 3-17-87, Cl. 188-207.000.

Stalzer, Henry: *See*—
DiGiulio, Peter C.; Hafner, Warren G.; and Stalzer, Henry, 4,701,856, Cl. 364-466.000.
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Stamatien, James A.: *See*—
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Stamatoff, James B.: *See*—
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Stambach, Jean-Francois; Jung, Louis; Heitz, Christiane; Schott, Claire; Stoclet, Jean-Claude; and Schutz, Fabienne, to Urpha. Levorotatory enantiomers of derivatives of 5,6,13,13a-tetrahydro-8H-dibenzo [A,G]quinolizine, preparative process, pharmaceutical compositions containing them and application. 4,645,772, 2-24-87, Cl. 514-280.000.

Stambaugh, Lanier: *See*—
Masterson, Ian F.; Feinstein, Jonathan J.; and Stambaugh, Lanier, 4,647,019, Cl. 266-243.000.
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Stambaugh, Mark A., to Texas Instruments Incorporated. Frequency divide by N circuit. 4,715,052, 12-22-87, Cl. 377-108.000.

Stambaugh, Mark A.: *See*—
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Stamberg, Jiri: *See*—
Dautzenberg, Horst; Loth, Fritz; Borrmeister, Bodo; Bertram, Dieter; Lettau, Herbert; Stamberg, Jiri; and Peska, Jan, 4,664,105, Cl. 128-156.000.

Stamberger, Paul, to Union Carbide Corporation. Epoxy-modified polyols and polymer-polyols useful in the preparation of improved plastics, including polyurethane foams, elastomers and the like. 4,647,624, 3-3-87, Cl. 525-187.000.

olov, Lyuben K.; Chaushev, Sotir Y.; and Simitchiev, Dilyan L., SPIE "D. Blagoev". Cooling stack for cooling towers. 4,678,615, 87, Cl. 261-111.000.
oulian, Nazareth: *See—*
ck, John J.; Stamboulian, Nazareth; and Tanaka, Akira, 4,659,108, Cl. 280-807.000.
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gna, Andrew P.; and Strolle, Clifford H., to Du Pont de Nerrs, E. I., and Company. Acrylourethane reaction product, 1,929, 12-8-87, Cl. 525-131.000.
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lfenaar, Marinus; van den Brink, Franciscus; and van Hardeveld, Rudolf, 4,693,793, Cl. 204-78.000.
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e Lathouder, Hans C., 4,699,772, Cl. 423-359.000.
ouwes, Adolphe M., 4,652,678, Cl. 564-73.000.
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an de Moesdijk, Cornelis G. M.; Delahaye, Hubertus J. A. V.; and Teunissen, Antonius J. J. M., 4,667,034, Cl. 544-242.000.
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Van Geenen, Albert A.; and Bongers, Jozef J. M., 4,683,304, Cl. 540-529.000.
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an Paassen, Nicolaas A. J.; and Verschuur, Jacobus G., 4,645,627, Cl. 260-501.210.
Verheijen, Egidius J. M., 4,696,960, Cl. 524-100.000.
m, Nikolaus, to A. Konrad Feinmechanik AG. Process and maine for hooping a package with a hooping band. 4,691,498, 9-8-87, 53-399.000.
m, Richard H.: *See—*
Ritchie, Robert C.; McKone, Henry J.; and Stamm, Richard H., 4,690,789, Cl. 264-40.100.
m, Wolfgang; and Konig, Dieter, to Bayerische Motoren Werke ktiengesellschaft. Installation for the automatic grinding of curved rfaces. 4,712,289, 12-15-87, Cl. 29-568.000.
mann, Gunter; Grolig, Johann; and Waldmann, Helmut, to Bayer ktiengesellschaft. Process for the production of substituted polyaryl hers. 4,705,843, 11-10-87, Cl. 528-212.000.
mann, Gunter; Kricsfalussy, Zoltan; Waldmann, Helmut; Schneir, Joachim; and Medem, Harald, to Bayer Aktiengesellschaft. ocess for the regeneration of catalysts for the gas-phase reduction aromatic nitro compounds. 4,714,689, 12-22-87, Cl. 502-54.000.
mely, Thomas E.: *See—*
Annunziata, Eugene J.; Faress, James M., II; and Stammely, Thomas E., 4,701,630, Cl. 307-112.000.
ov, Vladimir P.: *See—*
adjiiski, Anatoli M.; Varbanov, Hristo P.; Mishonov, Michail T.; Stamov, Vladimir P.; Savov, Rosen P.; Radenkcv, Stralil K.; Panev, Vladimir B.; and Velev, Alexander S., 4,638,607, Cl. 52-79.900.
per, James F., to Lear Siegler, Inc. Retractable clothesline device. 84,076, 8-4-87, Cl. 242-100.100.
per, Richard W.; and Hultz, Robert C., to GenCorp Inc. Roofing mbrane. 4,666,761, 5-19-87, Cl. 428-215.000.
pfli, Jean-Marcel, to ETA S.A. Fabriques d'Ebauches. Process for nufacturing electronic modules for microcircuit cards. 4,674,175, 3-87, Cl. 29-588.000.
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Gruber, James R.; Gudath, Ernest A.; Michalski, Dennis H.; Riddle, Robert R.; and Stana, Regis R., 4,716,026, Cl. 423-167.000.
back, Robert J.: *See—*
Hays, Byron G.; and Stanaback, Robert J., 4,648,907, Cl. 106-30.000.
idyne, Inc.: *See—*
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Djordjevic, Ilija, 4,662,825, Cl. 417-206.000.
Djordjevic, Ilija, 4,667,641, Cl. 123-502.000.
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Igbal, Muhammad, 4,662,389, Cl. 137-359.000.
Iqbal, Muhammad, 4,699,358, Cl. 251-310.000.
Kowal, Steven J., 4,694,790, Cl. 123-90.580.

Stanbery, Billy J., to Boeing Company, The. Two-terminal, thin film, tandem solar cells. 4,680,422, 7-14-87, Cl. 136-249.000.

Stanbro, Michael: *See—*
Desmond, John P.; Ford, Douglas W.; Fossey, Michael E.; Stanbro, Michael; and Zimmerman, Kenneth A., 4,698,785, Cl. 364-900.000.

Stanbro, William D.: *See—*
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Stancil, Charles M. Helicopter destruction system employing cables. 4,656,945, 4-14-87, Cl. 102-405.000.

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Stanciu, Ulrich: *See—*
Drake, James R., 4,651,665, Cl. 114-39.000.

Stanczyk, William G. Fishing lure device. 4,671,007, 6-9-87, Cl. 43-42.530.

Stand, Mille: *See—*
Karlsson, Axel T.; and Stand, Mille, 4,694,990, Cl. 239-81.000.

Standard Elektric Lorenz Aktiengesellschaft: *See—*
Burian, Theodor; and Siegel, Herbert, 4,686,671, Cl. 370-88.000.
Uhlenkamp, Dirk, 4,688,089, Cl. 358-105.000.

Standard Elektrik Lorenz Aktiengesellschaft: *See—*
Auch, Wilfried; Graf, Helmut; and Schlemper, Eberhard, 4,704,032, Cl. 356-350.000.
Beier, Wolfgang, 4,672,629, Cl. 375-1.000.
Bernhard, Wilfried, 4,668,929, Cl. 335-211.000.
Bracha, Franz, 4,654,567, Cl. 318-254.000.
Brunn, Otto, 4,644,222, Cl. 313-406.000.
Brunn, Otto, 4,663,561, Cl. 313-406.000.
Domann, Gunter, 4,645,345, Cl. 356-350.000.
Feigel, Josef, 4,638,201, Cl. 310-216.000.
Gundner, Hans M., 4,644,145, Cl. 250-201.000.
Hopfensperger, Reinhold; and Taschner, Klaus, 4,712,976, Cl. 415-54.000.
Kaiser, Manfred, 4,701,012, Cl. 350-96.190.
Ohnsorge, Horst, 4,686,667, Cl. 370-4.000.
Puls, Bernhard, 4,646,349, Cl. 381-24.000.
Reh, Klaus, 4,651,063, Cl. 315-371.000.
Tischer, Kurt M.; Schlipf, Michael; Lesiak, P. Dieter; and Wengert, Rolf, 4,708,678, Cl. 445-24.000.
Tischer, Kurt-Manfred, 4,709,272, Cl. 358-247.000.
Ulrich, Reinhard; and Auch, Wilfried, 4,704,031, Cl. 356-350.000.
Viohl, Uwe, 4,695,477, Cl. 427-68.000.
Wessel, Gerhard; and Ebner, Heinz, 4,658,271, Cl. 346-107.00R.
Zondler, Rolf; and Pottharst, Jurgen, 4,702,559, Cl. 350-331.00R.

Standard-Keil Hardware Manufacturing Co.: *See—*
Cook, Sanford L.; and Kirkup, David, 4,680,828, Cl. 16-90.000.

Standard-Knapp, Inc.: *See—*
Johnson, Lloyd D., 4,638,620, Cl. 53-382.000.
Raudat, John L.; and Thompson, Timothy H., 4,637,509, Cl. 198-425.000.

Standard Machinery Limited: *See—*
Greasley, Michael J.; and Manning, Richard J., 4,702,183, Cl. 112-38.000.

Standard Manufacturing Co., Inc.: *See—*
Oswald, Norman D.; Mankey, Harry S.; Dean, Robert R.; and Hudler, Dennis W., 4,685,527, Cl. 180-14.300.
Oswald, Norman D.; Mankey, Harry S.; Franklin, Carl M.; Wilhelm, James M.; and Osborn, Ronnie M., 4,702,843, Cl. 280-707.000.

Standard Microsystems Corp.: *See—*
Lish, Charles A., 4,697,153, Cl. 330-277.000.
Pechar, Henry W., Jr.; and Sproch, James D., 4,638,459, Cl. 365-104.000.

Standard Oil Commercial Development Company: *See—*
Basol, Bulent M., 4,666,569, Cl. 204-34.500.

Standard Oil Company, The: *See—*
Ball, Lawrence E.; Griffin, William M.; Wallace, Kathleen M.; and Nemecek, Amy L., 4,638,865, Cl. 166-274.000.
Ball, Lawrence E.; Griffin, William M.; Antloga, Kathleen M.; and Nemecek, Amy L., 4,653,584, Cl. 166-273.000.
Bar-On, Ari, 4,652,693, Cl. 136-251.000.
Bar-on, Ari, 4,695,674, Cl. 136-256.000.
Basol, Bulent M.; and Biter, William J., 4,647,711, Cl. 136-256.000.
Basol, Bulent M.; and Tseng, Eric S., 4,675,468, Cl. 136-256.000.
Benton, Kenneth C.; and Weinert, Raymond J., Jr., 4,657,788, Cl. 427-354.000.
Biter, William J.; and Ceasar, Gerald P., 4,686,323, Cl. 136-249.000.
Bodine, John H.; Bork, Jonathan; Alford, Richard M.; Wright, James H.; and Thomsen, Leon A., 4,646,239, Cl. 364-421.000.
Bodolus, Christopher L.; and Woodhead, David A., 4,692,498, Cl. 525-285.000.
Boos, Donald L.; and Marse, Allan V., 4,713,731, Cl. 361-433.000.
Brazdil, James F.; Teller, Raymond G.; Bartek, Joseph P.; and Grasselli, Robert K., 4,665,259, Cl. 585-500.000.
Bremer, Noel J.; Dria, Dennis E.; Milberger, Ernest C.; Blum, Patricia R.; and Nicholas, Mark L., 4,647,673, Cl. 549-260.000.

Budge, John R.; Compton, Senja V.; Goeden, Gary V.; and Mazanec, Terry J., 4,665,042, Cl. 502-61.000.
Budge, John R.; and Compton, Senja V., 4,681,868, Cl. 502-307.000.
Burgess, Lester E.; Hagstrom, Robert G.; Herman, David E.; and McGarry, Phillip E., 4,671,801, Cl. 44-51.000.
Callahan, James L.; Desmond, Michael J.; and Pepera, Marc A., 4,634,502, Cl. 204-23.000.
Caspari, Gunter; and Valcho, Joseph J., 4,634,541, Cl. 252-32.70E.
Cesa, Mark C.; Rinz, James E.; and Kopp, Teodora T., 4,705,864, Cl. 548-309.000.
Cesa, Mark C.; and Burrington, James D., 4,710,574, Cl. 548-533.000.
Chin, Ti-Hua; and Turner, Robert F., Jr., 4,659,458, Cl. 209-164.000.
Cuellar, Edward A.; and Gaylor, Verna F., 4,668,349, Cl. 204-59.00R.
Curatolo, Benedict S.; Sentman, Robert C.; and Coffey, Gerald P., 4,640,976, Cl. 528-336.000.
Curatolo, Benedict S.; Sentman, Robert C.; and Coffey, Gerald P., 4,689,394, Cl. 528-336.000.
Currie, Janie K.; Cooper, Arthur J.; and Pesa, Frederick A., 4,687,875, Cl. 585-469.000.
Desmond, Michael J.; Pesa, Frederick; and Eshraghi, Reza, 4,634,686, Cl. 502-60.000.
Desmond, Michael J.; Currie, Janie K.; and Pesa, Frederick A., 4,681,747, Cl. 423-277.000.
Desmond, Michael J.; and Pepera, Marc A., 4,686,203, Cl. 502-331.000.
Desmond, Michael J.; Pepera, Marc A.; and Callahan, James L., 4,705,675, Cl. 423-326.000.
Dolhyi, Serge R.; Shaw, Wilfrid G.; and Pepera, Marc A., 4,710,484, Cl. 502-208.000.
Gash, Bruce W., 4,637,465, Cl. 166-261.000.
Glocker, David A.; Miller, John R.; Grimshaw, Scott F.; and Windischmann, Henry, 4,637,869, Cl. 204-192.110.
Hardman, Harley F.; Mazanec, Terry J.; and Frye, John G., Jr., 4,657,887, Cl. 502-303.000.
Hardman, Harley F.; and Beach, Ronald I., 4,668,656, Cl. 502-318.000.
Henderson, Richard S.; Tenhover, Michael A.; and Grasselli, Robert K., 4,696,703, Cl. 148-403.000.
Henderson, Richard S.; Shreve, Gary A.; and Tenhover, Michael A., 4,701,226, Cl. 148-403.000.
Jageler, Alfred H., 4,667,752, Cl. 175-244.000.
Kung, Wei-Jen; Burrington, James D.; and Cesa, Mark C., 4,670,395, Cl. 435-280.000.
Li, George S.; Wu, Muyen M.; and DeWitt, Elmer J., 4,638,042, Cl. 526-280.000.
Li, George S.; and Giffen, William M., Jr., 4,663,050, Cl. 210-649.000.
Li, George S.; Wu, Muyen M.; and DeWitt, Elmer J., 4,677,164, Cl. 525-210.000.
Li, George S.; Wu, Muyen M.; and Dewitt, Elmer J., 4,681,917, Cl. 525-210.000.
Lysandrou, Michael C.; and Dulaney, Clarence L., 4,696,752, Cl. 252-8.553.
Mark, Seymour, 4,670,058, Cl. 106-283.000.
Mazanec, Terry J.; and Frye, John G., Jr., 4,666,944, Cl. 518-700.000.
Mazanec, Terry J.; and Frye, John G., Jr., 4,675,306, Cl. 502-303.000.
Mazanec, Terry J.; and Frye, John G., Jr., 4,677,091, Cl. 502-182.000.
Mazanec, Terry J.; Frye, John G., Jr.; and Hardman, Harley F., 4,705,532, Cl. 44-53.000.
McCaul, Joseph P., 4,704,412, Cl. 522-151.000.
McGarry, Phillip E.; Herman, David E.; Treskot, Robert A.; and Fistner, David C., Sr., 4,650,567, Cl. 209-166.000.
Morrison, Donald L.; and Bartok, Stephen, 4,690,193, Cl. 160-133.000.
Nekut, Anthony G., Jr., 4,663,593, Cl. 324-345.000.
Paparizos, Christos; and Song, Yihhong, 4,704,496, Cl. 585-500.000.
Paparizos, Christos; Shaw, Wilfrid G.; and Callahan, James L., 4,714,695, Cl. 502-339.000.
Paspek, Stephen C., 4,670,019, Cl. 44-51.000.
Pedersen, S. Erik; and Pfingsten, Linda L., 4,677,238, Cl. 585-469.000.
Percec, Elena S.; and Li, George S., 4,673,717, Cl. 525-390.000.
Percec, Elena S.; and Li, George S., 4,684,376, Cl. 55-16.000.
Percec, Elena S.; and Li, George S., 4,699,634, Cl. 55-16.000.
Pesa, Frederick A.; and Haase, Thomas A., 4,652,677, Cl. 562-522.000.
Pesa, Frederick A.; and Graham, Anne M., 4,654,321, Cl. 502-331.000.
Price, Steven C., 4,705,910, Cl. 800-1.000.
Pyke, Stephen C., 4,671,852, Cl. 156-652.000.
Rampuria, Sampat M.; and Warmack, Ralph E., 4,663,743, Cl. 367-68.000.
Shyu, Wen B.; Woodhead, David A.; and Quigley, Vincent P., 4,698,389, Cl. 525-96.000.
Spanswick, James; and Kuhlmann, George E., 4,709,080, Cl. 560-86.000.
Stevens, Stanley E., Jr.; and Burgess, Wilella D., 4,659,670, Cl. 435-262.000.
Suresh, Dev D.; Zagata, Robert J.; Friedrich, Maria S.; and Seely, Michael J., 4,659,689, Cl. 502-311.000.
Teller, Raymond G.; Brazdil, James F.; and Glaeser, Linda C., 4,634,789, Cl. 558-451.000.
Teller, Raymond G.; and Brazdil, James F., 4,668,653, Cl. 502-215.000.
Tenhover, Michael A., 4,696,731, Cl. 204-290.00R.
Tenhover, Michael A., 4,702,813, Cl. 204-290.00R.
Tenhover, Michael A.; Harris, Jonathan H.; and Grasselli, Robert K., 4,705,610, Cl. 204-95.000.
Tsou, Dean T.; Blachman, Marc W.; and Burrington, James D., 4,681,968, Cl. 558-361.000.
Uebele, Curtis E.; Ball, Lawrence E.; Jorkasky, Richard J., II; and Wardlow, Eddie, Jr., 4,692,502, Cl. 526-193.000.
Valus, Ronald J.; and Davis, James C., 4,661,629, Cl. 562-443.000.
Velenyi, Louis J.; and Dolhyi, Serge R., 4,663,479, Cl. 562-525.000.
Velenyi, Louis J.; and Mazanec, Terry J., 4,676,972, Cl. 423-648.00R.
Velenyi, Louis J.; Pesa, Frederick A.; and Paparizos, Christos, 4,690,777, Cl. 252-373.000.
Velenyi, Louis J.; and Krupa, Andrew S., 4,690,814, Cl. 423-648.00R.
Velenyi, Louis J., 4,695,668, Cl. 585-500.000.
Ward, Michael D.; Brazdil, James F., Jr.; and Grasselli, Robert K., 4,655,891, Cl. 204-157.930.
Warmack, Ralph E.; and Woodruff, William D., 4,639,901, Cl. 367-13.000.
Windischmann, Henry, 4,673,475, Cl. 204-192.110.
Wright, James H., 4,677,597, Cl. 367-47.000.
Wu, Mu-Yen M.; Ball, Lawrence E.; and Coffey, Gerald P., 4,707,538, Cl. 528-315.000.
Wu, Muyen M.; and Ball, Lawrence E., 4,666,955, Cl. 522-174.000.
Wu, Muyen M.; Li, George S.; and Dewitt, Elmer J., 4,581,916, Cl. 525-210.000.
Yang, Shan H., 4,662,444, Cl. 166-274.000.
Zletz, Alex; Satek, Larry C.; and Miller, Jeffrey T., 4,645,753, Cl. 502-202.000.

Standard Oil Company (Indiana): *See*—
Brooks, Gary T., 4,640,944, Cl. 523-205.000.
Brooks, Gary T., 4,684,674, Cl. 523-205.000.
Brooks, Gary T., 4,705,832, Cl. 525-436.000.
Cahill, Paul J.; and Satek, Larry C., 4,647,293, Cl. 44-68.000.
Cartmell, Robert R.; and Horecky, Carl J., 4,711,766, Cl. 422-140.000.
Chambers, Frank A., 4,672,169, Cl. 219-121.00L.
Edwards, Robert C.; and Udovich, Carl A., 4,649,205, Cl. 549-260.000.
Edwards, Robert C.; and Meyers, Bernard L., 4,652,543, Cl. 502-209.000.
Edwards, Robert C., 4,699,895, Cl. 502-209.000.
Fields, Ellis K.; Winzenburg, Mark L.; and Behrend, Steven J., 4,638,072, Cl. 549-234.000.
Hall, Richard A.; and Rosenfeld, Jeffrey L., 4,713,421, Cl. 525-242.000.
Howe, Arthur T., 4,640,744, Cl. 204-1.00R.
Johnson, Philip W., 4,677,598, Cl. 367-56.000.
Kaplan, Richard D., 4,673,442, Cl. 134-24.000.
Kreider, David R.; McCullum, Albert; Rose, Philip M.; and Lin, Chi-Hung, 4,640,963, Cl. 526-67.000.
Nemo, Thomas E., 4,705,643, Cl. 252-51.50A.
Strock, Dennis J., 4,648,523, Cl. 220-20.500.
Taylor, James L., 4,670,104, Cl. 202-84.000.
Unmuth, Eugene E.; Mahoney, John A.; and Bertolacini, Ralph J., 4,636,299, Cl. 208-87.000.
Wennerberg, Arnold N., 4,656,153, Cl. 502-182.000.
Wolff, William F.; and McCollum, John D., 4,668,380, Cl. 208-430.000.
Zavelovich, Joshua; and Reddy, K. Virupaksha, 4,643,812, Cl. 204-157.610.

Standard Oil Proppants Company, L.P.: *See*—
Fitzgibbon, Jeremiah J., 4,658,899, Cl. 166-280.000.

Standard Precision, Inc.: *See*—
Delmege, Dale; and Rask, Richard O., 4,679,950, Cl. 384-18.000.
Kasten, Donald A., 4,696,582, Cl. 384-18.000.

Standard Register Company, The: *See*—
LaDue, Philip G.; and Peglow, James D., 4,712,935, Cl. 400-645.100.
Mowry, William H., Jr., 4,662,651, Cl. 283-70.000.
Mowry, William H., Jr., 4,681,348, Cl. 283-58.000.

Standard Research and Design Corp.: *See*—
Bullock, Robert L., 4,676,172, Cl. 105-168.000.

Standard Slag Cement: *See*—
Berry, William A., 4,715,896, Cl. 106-117.000.

Standard Systems Corporation: *See*—
Schramm, David A., 4,670,848, Cl. 364-513.000.

Standard Telefon og Kabelfabrik A/S: *See*—
Bergersen, Hans A., 4,650,960, Cl. 219-213.000.
Bergersen, Hans A., 4,665,302, Cl. 219-212.000.
Johnsen, John N.; and Balog, Georg E., 4,644,097, Cl. 174-102.00R.

Standard Telephones and Cables Public Limited Company: *See*—
Allos, Talal I. Y.; Forbes, David H.; and Warnes, Christopher M., 4,659,216, Cl. 356-73.100.
Baines, Peter J., 4,692,940, Cl. 379-424.000.
Cameron, Neil W., 4,689,774, Cl. 367-20.000.
Camp, Philip G.; Macklen, Eric D.; Hole, Victor H. R.; and Hutcherson, David R., 4,702,619, Cl. 374-144.000.
Corfield, Kenneth G.; and Heeks, John S., 4,682,323, Cl. 370-4.000.

ssland, William A.; Ross, Peter W.; and Collings, Neil, 653,857, Cl. 350-320.000.
ssland, William A.; Walker, Christopher J. J.; and Davey, nthony B., 4,701,029, Cl. 350-351.000.
ton, Kenneth S., 4,638,480, Cl. 370-112.000.
ton, Kenneth S.; and Larsen, Jonathan P., 4,648,078, Cl. 67-13.000.
is, Arthur A.; and Eady, Robert W., 4,662,002, Cl. 455-601.000.
is, Aurthur A.; and Eady, Robert W., 4,679,250, Cl. 55-601.000.
ke, Cyril F., 4,645,749, Cl. 501-45.000.
ance, Philip; Jones, Roger E.; and Martin, Stewart O., 692,703, Cl. 324-251.000.
echild, Gath, 4,677,319, Cl. 307-475.000.
n, Duncan A.; Crownshaw, John C.; Davis, Arthur A.; and olegate, Gilbert W. P., 4,678,270, Cl. 350-96.200.
ks, John S., 4,663,596, Cl. 330-4.900.
necke, Rudolf A. H.; Ojha, Suresh M.; and Llewellyn, Ian P., 684,535, Cl. 427-38.000.
pp, Lionel; and Horrocks, Geral I. E. J., 4,645,117, Cl. 28-124.000.
gee, Terence E., 4,642,667, Cl. 357-35.000.
k, Thomas R.; and Butterfield, Howard B., 4,672,640, Cl. 75-120.000.
ham, Ronald C.; and Jones, Stephen R., 4,657,343, Cl. 50-96.230.
Gilles D.; Extance, Philip; and Wilson, David, 4,656,750, Cl. 3-352.000.
Gilles D.; Extance, Philip; Neat, Rosamund C.; and Jones, oger E., 4,668,085, Cl. 356-32.000.
Gilles D.; Extance, Philip; and Jones, Roger E., 4,696,543, Cl. 50-96.230.
ner, Daniel S. O., 4,662,988, Cl. 156-648.000.
os, George H. S., 4,663,600, Cl. 331-111.000.
s, Peter W., 4,670,654, Cl. 250-331.000.
r, Robert W. A., 4,701,879, Cl. 365-49.000.
mpson, George H. B., 4,669,816, Cl. 350-96.150.
ng, Andrew C.; Fearnhead, Graham R.; and Gale, Simon J., 651,154, Cl. 342-356.000.
ght, Stephen, 4,674,872, Cl. 356-73.100.
Textile Company, Inc.: *See*—
nan, Gary L., 4,670,326, Cl. 428-225.000.
Philip R.: *See*—
, Richard J.; Lauterbach, George E.; and Standel, Philip R., 698,172, Cl. 252-70.000.
Robert: *See*—
lver, Roderick L.; Misselbrook, John; and Standen, Robert, 692,988, Cl. 29-458.000.
Electronics (U.K.) Limited: *See*—
, John; Bannister, Royston W.; and Turczanski, Henry, 701,735, Cl. 335-282.000.
International: *See*—
valski, Frank P.; and Westphal, Donald J., 4,660,549, Cl. 28-69.000.
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International Corporation: *See*—
k, John W., 4,709,444, Cl. 16-31.00A.
valski, Frank P.; and Scott, Gerald R., 4,648,389, Cl. 28-70.000.
feisen, Frank, 4,674,402, Cl. 99-468.000.
, Anthony C. Combined energiser and reel for electric fences. 084, 9-1-87, Cl. 191-12.20R.
Burkhard: *See*—
en, Martin; and Standke, Burkhard, 4,695,353, Cl. 204-96.000.
, Paul M., to Dayco Products, Inc. Apparatus for making an s power transmission belt. 4,708,610, 11-24-87, Cl. 425-28.00B.
, Robert W., to Amoco Corporation. Photoconducting amor- carbon. 4,673,589, 6-16-87, Cl. 427-41.000.
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r, Alex; Stanek, Jaroslav; and Beilus, Daniel, 4,677,129, Cl. 4-299.000.
Richard; Marx, Hans-Norbert; Hettler, Wendelin; and Wagner, to Basf Aktiengesellschaft. Accelerated fixing of chromate- ing wood preservative salts. 4,716,054, 12-29-87, Cl. 7.000.
ference L.; and Lathrop, David R., to Emerson Electric Co. fan mounted close to ceiling. 4,634,345, 1-6-87, Cl. 416- R.
Mircea S.; Weinstein, David J.; and Cornelssen, Cornelius W., C Group, Inc., The. Process for annealing ferrous wire. 14, 8-10-87, Cl. 148-16.000.
tefan G.: *See*—
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William G.: *See*—
le, Richard A., Sr.; Stanfield, William G.; and Crenshaw, chael E., 4,696,602, Cl. 405-205.000.
Charles W.: *See*—
rco, Bernard; and Stanford, Charles W., 4,675,635, Cl. 5-35.000.
rco, Bernard; and Stanford, Charles W., 4,675,640, Cl. 5-70.000.
rco, Bernard; and Stanford, Charles W., 4,680,564, Cl. 5-16.000.
John L.; Cohen, Irun R.; Frenkel, Ayala; Holoshitz, Joseph; en, Willem; and Rook, Graham A. W. Methods for the alleviation or treatment of arthritic disease. 4,716,038, 12-29-87, Cl. 424-92.000.
Stanford, Raymond A., to VBM Corporation. Oxygen production system with two stage oxygen pressurization. 4,673,415, 6-16-87, Cl. 55-21.000.
Stanford, Sheila A. Nail polish dispensing system. 4,635,657, 1-13-87, Cl. 132-83.00R.
Stanford Telecommunications, Inc.: *See*—
Heppe, Stephen B., 4,654,854, Cl. 371-43.000.
Stanford University: *See*—
Barth, Phillip W., 4,665,610, Cl. 29-580.000.
Bloom, David M.; and Kolner, Brian H., 4,681,449, Cl. 356-364.000.
Brooks, Janet L.; Tur, Moshe; Youngquist, Robert C.; Kim, Byoung Y.; Wentworth, Robert H.; Shaw, Herbert J.; and Blotekjaer, Kjell, 4,699,513, Cl. 356-345.000.
Citron, Todd K.; and Kailath, Thomas, 4,665,523, Cl. 371-37.000.
Goodman, Joseph W.; Hesselink, Lambertus; and Ochoa, Ellen, 4,674,824, Cl. 350-3.640.
Hall, John L.; and Hansch, Theodor W., 4,700,150, Cl. 332-751.000.
Kim, Byoung Y., 4,707,136, Cl. 356-350.000.
Macovski, Albert, 4,662,379, Cl. 128-653.000.
Nishimura, Dwight G., 4,672,319, Cl. 324-309.000.
Perlmutter, Robert J., 4,701,006, Cl. 350-3.660.
Taber, Michael A., 4,647,857, Cl. 324-309.000.
Williams, Clayton C., 4,666,308, Cl. 356-432.000.
Stang, Hans W.: *See*—
Froebel, Gerd; and Stang, Hans W., 4,708,751, Cl. 148-23.000.
Stange, Andreas: *See*—
Graser, Fritz; and Stange, Andreas, 4,667,417, Cl. 34-9.000.
Stange, Charles E. Wheel manipulator. 4,684,310, 8-4-87, Cl. 414-427.000.
Stangeland, Bruce E., to Chevron Research Company. On-line instrument for simultaneously measuring the viscosity, density, and surface tension of a fluid comprising a gas dissolved in a liquid. 4,674,322, 6-23-87, Cl. 73-54.000.
Stangenberg, Hartmut: *See*—
Goldhammer, Albert; Schleicher, Hans; Stangenberg, Hartmut; Gasteier, Rolf; and Erlecke, Jens, 4,709,197, Cl. 318-480.000.
Stanger, Bernd: *See*—
Bubam, Hans-Georg; Heider, Lothar; Biederbeck, Uwe; and Stanger, Bernd, 4,661,557, Cl. 524-770.000.
Stanger, Leon J.: *See*—
Dayton, Birney D.; and Stanger, Leon J., 4,654,696, Cl. 358-11.000.
Stangl, Gunther; and Rudenauer, Friedrich, to Osterreichisches Forschungszentrum Seibersdorf GES, mbH. Optically structured filter and process for its production. 4,686,162, 8-11-87, Cl. 430-5.000.
Stango, Daniel J.: *See*—
Gotchel, Joel P.; Norton, Henry J.; Neuenschwander, Rudolf; and Stango, Daniel J., 4,682,942, Cl. 425-103.000.
Stangroom, James E., to ER Fluid Developments Limited. Electrically controlled, progressive, frictional, torque transmitting device. 4,664,236, 5-12-87, Cl. 192-35.000.
Stanhay Webb Limited: *See*—
Holland, Simon J. R., 4,685,698, Cl. 221-211.000.
Stanhope, Mary E.: *See*—
Decker, Dale D.; and Stanhope, Mary E., 4,696,426, Cl. 232-43.100.
Staniewicz, Robert J.: *See*—
Wilson, John A.; Staniewicz, Robert J.; Webber, Bruce; and Allvey, George W., 4,664,287, Cl. 220-89.00A.
Staniland, Philip A.: *See*—
Ward, Mary V.; Nield, Eric; and Staniland, Philip A., 4,638,037, Cl. 525-471.000.
Stanilov, Krestyo A.: *See*—
Popov, Entcho N.; Stanilov, Krestyo A.; Apostolov, Rumen K.; Dundarov, Pantcho G.; Radkov, Peyu V.; Aderski, Pentcho K.; and Georgiev, Georgi A., 4,695,754, Cl. 310-156.000.
Stanis, Alexander C.: *See*—
Barclay, William; and Stanis, Alexander C., 4,693,150, Cl. 82-93.000.
Stanish, Leo S.: *See*—
Maxwell, Reginald R.; Budzinski, Walter J.; Kuttruff, Manfred K.; Stanish, Leo S.; and Turner, Larry G., 4,647,086, Cl. 285-342.000.
Stanish, Ronald J. Device for cutting or chopping large pieces of bait into smaller ones while immersed in water. 4,685,242, 8-11-87, Cl. 43-44.990.
Stanislaus, Friedrich; Hofer, Josef M.; and Knoch, Axel, to Klinge Pharma GmbH. Sprayable pharmaceutical composition for topical use. 4,704,406, 11-3-87, Cl. 514-570.000.
Staniszewski, Tadeusz, to Ziyad Incorporated. Paper tray for a printing device. 4,714,243, 12-22-87, Cl. 271-171.000.
Staniszewski, Tadeusz: *See*—
Kapp, Ludwig J.; Fazio, Dominick; and Staniszewski, Tadeusz, 4,662,765, Cl. 400-595.000.
Staniulis, Mark T.: *See*—
Chiang, Robert L.; and Staniulis, Mark T., 4,678,765, Cl. 502-65.000.
Pellet, Regis J.; Coughlin, Peter K.; Staniulis, Mark T.; Long, Gary N.; and Rabo, Jule A., 4,666,875, Cl. 502-65.000.
Stankiewicz, Thomas: *See*—
Blumel, Ehrenfried; Gahlau, Heinemann; Hoffmann, Manfred; Wittenmayer, Klaus; Stankiewicz, Thomas; and Kittel, Christoph, 4,663,381, Cl. 524-426.000.
Stanko, Ronald T., to Montefiore Hospital. Method for preventing body fat deposition in animals. 4,645,764, 2-24-87, Cl. 514-251.000.

Stanland, Andrew J.: *See*—
Chamberland, Roger R.; and Stanland, Andrew J., 4,690,482, Cl. 439-578.000.

Stanley, Ann E., to United States of America, Army. Laser-induced chemical vapor deposition of germanium and doped-germanium films. 4,681,640, 7-21-87, Cl. 148-1.500.

Stanley-Bostitch, Inc.: *See*—
Randall, Everett H., 4,712,676, Cl. 206-338.000.

Stanley, Clive J., to Dowty Seals Limited. Seal with spaced recesses. 4,635,946, 1-13-87, Cl. 277-134.000.

Stanley, Edward T., to United States of America, Army. Sound reduction for tracked vehicles. 4,655,514, 4-7-87, Cl. 305-56.000.

Stanley, Edward T. Thermal liner for gun firing chamber. 4,702,027, 10-27-87, Cl. 42-76.020.

Stanley Electric Co., Ltd.: *See*—
Aizawa, Masandou; Yamauchi, Shigekazu; Sekine, Hisao; and Yamamoto, Takeshi, 4,684,218, Cl. 350-339.00F.
Aizawa, Masanobu, 4,659,182, Cl. 350-339.00F.
Augello, Daniel; Robert, Pierre H.; Teshima, Toru; and Naete, Hidehiko, 4,663,718, Cl. 364-444.000.
Fumiyuki, Suda; and Kazuaki, Hokoda, 4,689,283, Cl. 430-69.000.
Harmer, Alan L., 4,641,965, Cl. 356-135.000.
Harmer, Alan L., 4,682,889, Cl. 356-135.000.
Ichihara, Takeo; Yamanaka, Yukio; and Tsurumaru, Akihiko, 4,682,072, Cl. 313-115.000.
Ichihara, Takeo; Watanabe, Shuichi; Futami, Takashi; and Oda, Nobutaka, 4,703,401, Cl. 362-80.000.
Iwaki, Akihiro, 4,680,678, Cl. 362-61.000.
Iwaki, Akihiro; and Tajima, Masayoshi, 4,680,680, Cl. 362-80.000.
Kochi, Takeshi; Iwaki, Akihiro; and Tajima, Masayoshi, 4,670,823, Cl. 362-268.000.
Kudo, Sinji, 4,641,230, Cl. 363-56.000.
Kudo, Sinji, 4,707,763, Cl. 361-386.000.
Masaru, Yasui, 4,642,208, Cl. 264-37.000.
Oyama, Hiroo; and Kouchi, Tadashi, 4,636,923, Cl. 362-80.000.
Sakai, Hirou; and Kawamura, Toshihide, 4,698,730, Cl. 362-311.000.
Sherman, Rand C., 4,671,446, Cl. 228-4.500.
Suda, Fumiyuki; Yasui, Masaru; and Miyamoto, Kazuhiro, 4,686,165, Cl. 430-69.000.
Teshima, Tohru; Funaoka, Chihiro; and Robert, Pierre H., 4,647,901, Cl. 340-52.00R.
Teshima, Tohru; Funaoka, Chihiro; and Robert, Pierre H., 4,647,902, Cl. 340-52.00R.
Yasui, Masaru; Hokoda, Kazuaki; and Yoshida, Makoto, 4,676,195, Cl. 118-723.000.

Stanley, Frankie B., to Yarbrough, J. W., a part interest. Apparatus for dyeing yarn strands. 4,662,194, 5-5-87, Cl. 68-205.00R.

Stanley, Frankie B., to Yarbrough, J. W., a part interest. Yarn drying and dye setting apparatus. 4,689,972, 9-1-87, Cl. 68-20.000.

Stanley, Frederick W., Jr.; Lamphere, Jack C.; and Chonde, Yohannes, to Dow Chemical Company, The. Suspending agent for the suspension polymerization of water-soluble monomers. 4,708,997, 11-24-87, Cl. 526-207.000.

Stanley G. Flagg & Co., Inc.: *See*—
Kalaskie, William S.; and Hughes, David E., 4,706,929, Cl. 251-14.000.

Stanley, Gerald R., to Crown International, Inc. Method of fault sensing for power amplifiers having coupled power stages with normally alternate current flow. 4,644,288, 2-17-87, Cl. 330-2.000.

Stanley, Jack E.: *See*—
Parker, Wesley A.; Hardesty, Donald E.; and Stanley, Jack E., 4,666,675, Cl. 422-147.000.
Parker, Wesley A.; Hardesty, Donald E.; and Stanley, Jack E., 4,692,235, Cl. 208-113.000.

Stanley Jigs, Inc.: *See*—
Stanley, Lonnie D., 4,640,041, Cl. 43-42.130.

Stanley, Keith D.; and White, Kenneth B., to Akzona Incorporated. Quaternary ammonium salts useful as fabric softeners. 4,675,118, 6-23-87, Cl. 252-8.800.

Stanley, Keith R.; and Winchell, David F., to AT&T Bell Laboratories. Meet-me conference with control capabilities. 4,635,251, 1-6-87, Cl. 370-62.000.

Stanley, Keith R.; and Winchell, David F., to AT&T Bell Laboratories. Interactive facility control arrangement. 4,653,045, 3-24-87, Cl. 370-62.000.

Stanley, Keith R.; and Winchell, David F., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Method and apparatus for controlling a conference. 4,691,347, 9-1-87, Cl. 379-203.000.

Stanley, Laverne: *See*—
Carden, Anthony A., 4,714,609, Cl. 424-59.000.

Stanley, Lonnie D., to Stanley Jigs, Inc. Spinner bait with arms of different diameter. 4,640,041, 2-3-87, Cl. 43-42.130.

Stanley, Louis, to Card-O-Matic Pty. Limited. Method of forming and installing field windings. 4,641,421, 2-10-87, Cl. 29-596.000.

Stanley, Mervin D.: *See*—
Daghe, Joseph L.; Humes, Dennis W.; Stanley, Mervin D.; and Bouc, Gary L., 4,690,019, Cl. 81-99.000.

Stanley, Robert K. Interlining of pipelines for transporting sewage, water, slurries, liquid and gaseous hydrocarbons, and the like. 4,640,313, 2-3-87, Cl. 138-141.000.

Stanley, Robert W.; Harris, G. Bryn; and Monette, Serge, to Noranda, Inc. Process for the recovery of gold from a precious metal bearing sludge concentrate. 4,670,052, 6-2-87, Cl. 75-118.00R.

Stanley, Roderic K.: *See*—
Bradfield, James E.; Kahil, John E.; Jaynes, Mark S.; Moniz, Gordon L.; Milewits, Marvin; Bolton, Curtis W., III; Lam, Clive C.; and Stanley, Roderic K., 4,710,712, Cl. 324-227.000.

Stanley, Sandra M. Stand for polishing artificial fingernails. 4,696,316, 9-29-87, Cl. 132-73.000.

Stanley, Smith B.; and Alroy, Yoram A. Telescopic bed. 4,679,261, 7-14-87, Cl. 5-183.000.

Stanley, Theodore H.; and Hague, Brian, to University of Utah Research Foundation. Methods and compositions for noninvasive administration of sedatives, analgesics, and anesthetics. 4,671,951, 6-9-87, Cl. 424-440.000.

Stanley, Thomas R.; and Zeleznik, Mark R., to Teepak, Inc. Apparatus and methods of stuffing food casings to provide dimensionally uniform products. 4,709,450, 12-1-87, Cl. 17-49.000.

Stanley, Thomas R.: *See*—
Towne, Clinton G.; and Stanley, Thomas R., 4,635,316, Cl. 15-1.00R.

Stanley Tools: *See*—
Weimann, George F., 4,663,845, Cl. 30-162.000.

Stanley Widmer Associates: *See*—
Widmer, Stanley W., 4,671,475, Cl. 246-428.000.

Stanley, William W.: *See*—
Siczek, Roman W.; Stanley, William W.; and Mikyska, Glenn E., 4,673,297, Cl. 366-208.000.

Stanley Works, The: *See*—
Decarolis, Joseph P., 4,660,284, Cl. 30-157.000.
Kornbrekke, Henning N.; Cirkot, David M.; and Ranaudo, Anthony R., 4,669,218, Cl. 49-25.000.
Kornbrekke, Henning N.; Cirkot, David M.; and Ranaudo, Anthony R., 4,698,937, Cl. 49-25.000.
Roberts, C. Kenard, 4,681,223, Cl. 206-354.000.
Spargo, Thomas W.; and Arute, William J., 4,665,892, Cl. 126-194.000.
Thalenfeld, David R.; Goldstein, Mark E.; and Govang, James A., 4,688,683, Cl. 211-57.100.
Wallace, Clyde R., 4,653,637, Cl. 206-372.000.

Stannard, Forrest B.; and Highstreet, Edward J., to Dehydro Corporation, The. V-shaped trough filters, rotary assemblies thereof and methods of filtering therewith. 4,681,689, 7-21-87, Cl. 210-784.000.

Stannard, Forrest B.; and Highstreet, Edward J., to Dehydro Corporation, The. Drum filter with resin bound particulate filter media. 4,692,248, 9-8-87, Cl. 210-403.000.

Stannard, James P.; and Shockley, Charles W., to Pneumatic Pipewipers, Inc. Pneumatic pipe wiper system. 4,690,213, 9-1-87, Cl. 166-84.000.

Stanojevic, Silvo. Stacked bandgap voltage reference. 4,636,710, 1-13-87, Cl. 323-280.000.

Stanojevic, Silvo; and Miller, Bernard D., to National Semiconductor Corporation. Adaptive thermal shutdown circuit. 4,667,265, 5-19-87, Cl. 361-103.000.

Stanojevic, Silvo, to National Semiconductor Corporation. Zero standby current switch method and apparatus. 4,692,688, 9-8-87, Cl. 323-285.000.

Stanojevic, Silvo, to National Semiconductor Corporation. Threshold detector circuit and method. 4,701,639, 10-20-87, Cl. 307-350.000.

Stanovick, Richard P.: *See*—
Sullivan, Jeremiah B.; Shaheen, Donald G.; Stanovick, Richard P.; and Dove, Robert L., 4,653,644, Cl. 206-518.000.

Stansberry, Warren W., to Sperry Corporation. Concentric seal ring. 4,637,619, 1-20-87, Cl. 277-167.500.

Stansbury, Benjamin H., Jr.; and Henderson, Richard E. Hot water heater knob adaptor. 4,692,051, 9-8-87, Cl. 403-3.000.

Stansel, John C.: *See*—
Sheppard, Douglas B.; Solbes, Albert; Stansel, John C.; and Hill, Lance E., 4,685,404, Cl. 110-265.000.

Stansfield, Edward V.: *See*—
King, Nigel J. R.; Pawson, Ian W. N.; Baker, Michael P.; Shaddock, Robert N.; and Stansfield, Edward V., 4,639,733, Cl. 342-424.000.

Stansfield, Norman J.: *See*—
Hudson, Andrew; and Stansfield, Norman J., 4,636,438, Cl. 428-412.000.

Stansfield, Peter W.; and Reed, Alastair, to Crosfield Electronics (USA) Limited. Video retouching systems. 4,668,980, 5-26-87, Cl. 358-80.000.

Stant Inc.: *See*—
Crute, Billy G., 4,678,097, Cl. 220-288.000.
Harris, Robert S., 4,666,058, Cl. 220-373.000.
Harris, Robert S., 4,676,390, Cl. 220-203.000.
Harris, Robert S., 4,685,584, Cl. 220-204.000.
Harris, Robert S., 4,694,857, Cl. 137-565.000.
Harris, Robert S., 4,699,638, Cl. 55-168.000.
Harris, Robert S., 4,707,164, Cl. 55-168.000.
Szlaga, Emil, 4,655,238, Cl. 137-43.000.
Szlaga, Emil, 4,694,847, Cl. 137-39.000.
Szlaga, Emil, 4,715,403, Cl. 137-493.200.

Stanton, David J.: *See*—
Rise, Mark T.; and Stanton, David J., 4,690,144, Cl. 128-419.00B.

Stanton, James H.: *See*—
Lopes, John A.; and Stanton, James H., 4,715,980, Cl. 252-106.000.

Stanton, James L.; and Ksander, Gary M., to Ciba Geigy Corporation. Gamma-r-glutamoyl derivatives. 4,678,800, 7-7-87, Cl. 514-412.000.

Stanton, James R.; and Legg, James R. Lighting fixture. 4,695,114, 9-22-87, Cl. 439-573.000.

n plc: *See—*
reatorex, Cyril B.; Smith, Ian W. H.; and Hammersley, Graham J., 4,712,946, Cl. 405-170.000.
n and Staveley Limited: *See—*
teman, Terence; and Stevens, William W., 4,678,211, Cl. 285-368.000.
rd, Ray; and Liechti, Hansruedi, to Inventio AG. Converter-ered drive for an elevator. 4,671,390, 6-9-87, Cl. 187-120.000.
ne, Robin C.: *See—*
aryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., 4,656,270, Cl. 544-148.000.
aryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., 4,656,291, Cl. 548-351.000.
aryanoff, Cynthia A.; Plampin, James N.; and Stanzione, Robin C., 4,693,850, Cl. 260-506.000.
chtik GmbH R & S: *See—*
ngler, Ernst M., 4,634,483, Cl. 156-216.000.
namics, Inc.: *See—*
mson, Thomas H., 4,640,286, Cl. 128-421.000.
William J.; and Weber, Robert N., to AMP Incorporated. Du-fiber optic connector assembly. 4,687,291, 8-18-87, Cl. 0.210.
William J.: *See—*
vern, James D.; Stape, William J.; and Weber, Robert N., 4,715,675, Cl. 350-96.200.
ber, Robert N.; and Stape, William J., 4,684,211, Cl. 350-96.200.
ld, Bernard E.; and Beaver, Donald L., Jr., to Sermac Indus-Inc. Fluid absorbing method. 4,659,478, 4-21-87, Cl. 90.000.
ldt, Rolf: *See—*
ldhorn, Bruno; and Stapelfeldt, Rolf, 4,646,344, Cl. 379-58.000.
ea, Jan A., to Fasto B.V. Regulating device for a central heating containing a hot water supply. 4,671,459, 6-9-87, Cl. 237-8.00R.
Jakob, to Rieter Machine Works, Ltd. Open-end yarn piecer. 824, 4-14-87, Cl. 57-263.000.
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ltraschall-Technik GmbH: *See—*
s, Lothar, 4,646,957, Cl. 228-1.100.
Bruce: *See—*
hardson, Charles P.; Kuhl, Virgil; Gasparaitis, Bernard; Staple, Bruce; and Krieg, Larry M., 4,679,233, Cl. 379-433.000.
Edward J., to United States of America, Army. Selectively ng microstructures in a glow discharge plasma. 4,654,118, 7, Cl. 156-643.000.
Samuel C. Brush attachment for automated pool sweepers. 377, 3-24-87, Cl. 15-1.700.
n, Gerard V. Tamper proof bottle. 4,685,579, 8-11-87, Cl. 30.000.
n, Harold R., to W. Vinten Limited. Tiltable mountings. 142, 3-17-87, Cl. 248-184.000.
adlight & Lantern Company, Inc.: *See—*
gh, Francis, 4,684,852, Cl. 315-241.00R.
d Foods, Inc.: *See—*
vic, Davor, 4,645,404, Cl. 414-417.000.
Charles A.: *See—*
roll, John O.; Boyce, Columbus O. L.; Wong, Theodore M.; and arace, Charles A., 4,654,216, Cl. 426-20.000.
Michael E.; Czulinski, Ronald B.; and Hammond, Albert J., to Manufacturing Corporation. Flex drive window regulator 4,642,941, 2-17-87, Cl. 49-352.000.
s, Arthur E. Nonaqueous coal cleaning process. 4,695,371, 7, Cl. 209-211.000.
Alexander, to Siemens Aktiengesellschaft. Arrangement for mensional DPCM coding. 4,636,856, 1-13-87, Cl. 358-135.000.
Roland; and Roller, Hanno, to Fritz Eichenauer GmbH & Co. Sensor for detecting frost deposits. 4,671,072, 6-9-87, Cl. .000.
Carl; and Wielebinski, Werner, to Zundwarenfabrik Starcke & Co. Automatically winding window shade. 4,653,567, 7, Cl. 160-301.000.
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k, Karl-Heinz, 4,681,639, Cl. 127-30.000.
rantsek; Machacek, Vilem; and Manhalter, Pavel, to ZVL mny ustav pro valiva loziska Brno. Mounting for the rotary of an x-ray tube. 4,635,283, 1-6-87, Cl. 378-132.000.
udio Attrezzature Rinnovamento Ferroviario S.R.L.: *See—*
ini, Erio; and Montermini, Uber, 4,669,387, Cl. 104-17.200.
v, Vladimir V.: *See—*
vich, Felix Z.; and Starichnev, Vladimir V., 4,648,659, Cl. 6-1.000.
ton W.: *See—*
, Leroy E.; Hunkapiller, Michael W.; Dreyer, William J.; wick, Rodney M.; and Stark, Anton W., 4,704,256, Cl. -68.000.
arles J.: *See—*
mas, Carlos G.; Evans, James M.; Stark, Charles J.; and nann, William J., 4,670,504, Cl. 524-504.000.
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Lars; and Stark, Eduard, 4,675,138, Cl. 264-294.000.
ard W., to Technicon Instruments Corporation. Integrating utilizing a positive power lens. 4,658,131, 4-14-87, Cl. 000.
Stark, Gerald A.: *See—*
Happ, Lawrence R.; Stark, Gerald A.; and Drensky, Stephen M., 4,703,147, Cl. 219-10.55C.
Stark, Heinz: *See—*
Koenig, Heribert; and Stark, Heinz, 4,653,067, Cl. 373-101.000.
Stark, James A. Roller bearing. 4,666,316, 5-19-87, Cl. 384-44.000.
Stark, Johan. Chord key for musical instruments. 4,671,159, 6-9-87, Cl. 84-485.00R.
Stark, John E.: *See—*
Leir, Charles M.; and Stark, John E., 4,677,182, Cl. 523-109.000.
Stark, Lawrence R.: *See—*
Messer, Mark G.; and Stark, Lawrence R., 4,670,126, Cl. 204-298.000.
Stark, Leonard E.: *See—*
Schwartz, Michael M.; and Stark, Leonard E., 4,675,438, Cl. 562-416.000.
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Weiss, Franz; Eschenweck, Dieter; and Stark, Manfred, 4,687,043, Cl. 164-97.000.
Stark, Richard. Toy animal life preserver. 4,668,201, 5-26-87, Cl. 441-88.000.
Stark, Richard A., to Eastman Kodak Company. Scanning apparatus. 4,707,055, 11-17-87, Cl. 350-3.710.
Stark, Robert A., to Dresser Industries, Inc. Method and apparatus for controlling hydraulic vehicle transmission. 4,684,004, 8-4-87, Cl. 192-87.130.
Stark, Willi: *See—*
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Stark, William A.: *See—*
Meguro, Jun-Ichi; Solberg, Arne L.; Stark, William A.; and Hsei, Paul K., 4,685,880, Cl. 425-416.000.
Stark, William C. Paint shields and painting methods. 4,656,058, 4-7-87, Cl. 427-282.000.
Stark, William C. Paint shields and painting methods. 4,695,486, 9-22-87, Cl. 427-282.000.
Starke, Roy R., to United States of America, Air Force. Separable hinge with self retaining hinge pin. 4,683,613, 8-4-87, Cl. 16-262.000.
Starke, Siegfried: *See—*
Schillinger, Hans; Pahlke, Klaus; Starke, Siegfried; Panhorst, Heinz-Juergen; and Mengel, Hans-Eckhard, 4,635,738, Cl. 175-398.000.
Starker, Siegfried, to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Satellite navigational system and method. 4,652,884, 3-24-87, Cl. 342-357.000.
Starkey, Cornelius J., IV: *See—*
Todd, Lee T., Jr.; and Starkey, Cornelius J., IV, 4,698,684, Cl. 358-237.000.
Starkey, Stanley V.: *See—*
Gayfer, David; Starkey, Stanley V.; and Wareham, John G., 4,690,265, Cl. 198-347.000.
Starkie, Alan H.: *See—*
Robinton, Michael A.; and Starkie, Alan H., 4,709,375, Cl. 375-27.000.
Starkston, Robert; Luce, Mark C.; and Homsy, Robert V., to Chevron Research Company. Composition for removing sulfides from industrial gas. 4,647,397, 3-3-87, Cl. 252-189.000.
Starlanes Corp.: *See—*
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Starr, Keith E., to Eaton Corporation. Minimum pressure retention valve. 4,664,141, 5-12-87, Cl. 137-493.200.
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Bernard, Jean; and Mercier, Michel, 4,686,867, Cl. 74-594.600.
Peyre, Henri, 4,708,360, Cl. 280-605.000.

Ste Look, French Societe Anonyme: *See*—
Peyre, Henri, 4,682,786, Cl. 280-628.000.

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Lee, Carol S.; and Stead, George E., 4,665,268, Cl. 585-640.000.

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Thelen, Franz, 4,648,331, Cl. 110-342.000.

Stealy, Arthur J. Electric fishing reel. 4,634,072, 1-6-87, Cl. 242-84.10A.

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Lamer, Gerald P.; Lenius, Norbert W.; and Stearn, Richard A., 4,705,180, Cl. 212-190.000.

Stearns, Charles F., to United Technologies Corporation. Differential pressure sensor. 4,646,624, 3-3-87, Cl. 92-37.000.

Stearns, Charles F., to United Technologies Corporation. Pressure regulator. 4,715,397, 12-29-87, Cl. 137-84.000.

Stearns, David; Sum, Leung C.; and Henegar, Jacob, to Coleman Company, Inc., The. Fluorescent lantern with removable fluorescent tubes. 4,663,697, 5-5-87, Cl. 362-184.000.

Stearns, Hoyt A., Jr. Electric air-driven helicopter. 4,702,437, 10-27-87, Cl. 244-17.110.

Stearns, R. Dewey, III. Water driven shower massager. 4,640,462, 2-3-87, Cl. 239-383.000.

Stearns, Richard G.: *See*—
Kino, Gordon S.; Stearns, Richard G.; and Khuri-Yakub, Butrus T., 4,683,750, Cl. 73-606.000.

Stearns, Robert M.: *See*—
Welker, Mark L.; and Stearns, Robert M., 4,685,308, Cl. 62-171.000.

Stearns, Thornton, to Vacuum Barrier Corporation. Controlled cryogenic liquid delivery. 4,715,187, 12-29-87, Cl. 62-55.000.

Steart-Warner Corp.: *See*—
Weaver, Frank C., 4,651,701, Cl. 123-509.000.

Stebbins, Leslie F.: *See*—
Su, Kai C.; Stebbins, Leslie F.; and Bhatia, Rajkumar P., 4,670,060, Cl. 252-174.170.

Steblay, Bernard J., to United States of America, Interior. Constant current, fast and float rate, variable hysteresis battery charger. 4,686,443, 8-11-87, Cl. 320-23.000.

Stebles, Malcolm R. D.: *See*—
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Stebleton, Leo F.: *See*—
Chaffee, Roger G.; and Stebleton, Leo F., 4,687,829, Cl. 528-17.000.

STEC Inc.: *See*—
Shimizu, Tetsuo; Tujimura, Kiyoharu; and Iwamoto, Michinori, 4,695,034, Cl. 251-129.060.
Tujimura, Kiyoharu; and Ohsasa, Hiroshi, 4,666,126, Cl. 251-282.000.

Stec, Wojciech; Kinas, Ryszard; and Misiura, Konrad, to Polska Akademia Nauk-Centrum Baden Molekularnych i Makromolekularnych. Process for the production of 2-(2-halogenoethylamino)-2-oxo-3-(2-halogenoethyl)-1,3,2,-oxazaphosphorinanes. 4,684,742, 8-4-87, Cl. 558-81.000.

Steccone Products Company, Inc.: *See*—
Smahlik, Michael A., 4,697,296, Cl. 15-245.000.

Stecher, Gunther: *See*—
Glas, Hans J.; Hecht, Hans; Muller, Klaus; Spitzenberger, Kurt; and Stecher, Gunther, 4,711,130, Cl. 73-708.000.

Stecher, Karlheinz: *See*—
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Steck, Christopher W., to Texas Instruments Incorporated. Data processing system with an arithmetic logic unit having improved carry look ahead. 4,677,584, 6-30-87, Cl. 364-784.009.

Steck, Edgar A.: *See*—
Werbel, Leslie M.; and Steck, Edgar A., 4,659,708, Cl. 514-222.000.

Steck, Robert F.; and Baartman, John L., III, to International Paper Company. Induction sealing of paperboard. 4,637,199, 1-20-87, Cl. 53-451.000.

Steckert, Rainer: *See*—
Gessner, Dieter; and Steckert, Rainer, 4,693,913, Cl. 427-215.000.

Steckhan, Eberhard; Wolf, Reinhard; and Puetter, Hermann, to BASF Aktiengesellschaft. Preparation of chloro-olefins. 4,681,977, 7-21-87, Cl. 560-262.000.

Steckhan, Eberhard: *See*—
Degner, Dieter; and Steckhan, Eberhard, 4,699,698, Cl. 204-59.00R.

Steckler, Steven A.; and Balaban, Alvin R., to RCA Corporation. Phase locked loop system incorporating automatic gain control. 4,635,101, 1-6-87, Cl. 358-27.000.

Steckler, Steven A.; and Balaban, Alvin R., to RCA Corporation. Phase locked loop system for providing a phase shifted output signal. 4,636,836, 1-13-87, Cl. 358-19.000.

Steckler, Steven A.: *See*—
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Balaban, Alvin R.; and Steckler, Steven A., 4,697,211, Cl. 358-153.000.
Balaban, Alvin R.; and Steckler, Steven A., 4,698,679, Cl. 358-153.000.

Stedman, Donald H.: *See*—
Howard, Charles P.; and Stedman, Donald H., 4,678,488, Cl. 55-406.000.

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Orphall, Axel W., 4,679,740, Cl. 241-189.00R.

Stedron, Horst; and Lehr, Lothar, to Rittal-Werk Rudolf Loh GmbH & Co. KG. Weather-tight switchboard cabinet. 4,665,654, 5-19-87, Cl. 49-484.000.

Stedtnitz, Wolfgang, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Method of troubleshooting an underwater acoustic transducer array. 4,648,079, 3-3-87, Cl. 367-13.000.

Steel, Alan, to Anderson Strathclyde PLC. Angle stations in or for endless conveyor belts. 4,655,340, 4-7-87, Cl. 198-839.000.

Steel Castings Research and Trade Association: *See*—
Ashton, Michael C., 4,685,973, Cl. 134-13.000.
Neu, Max G.; Gough, Michael J.; Ashton, Michael C.; and Wallis, Roger, 4,665,966, Cl. 164-137.000.

Steel City Corporation, The: *See*—
Lehman, John F., 4,644,713, Cl. 52-165.000.

Steel Heddle Manufacturing Co.: *See*—
Faasse, Gene E., 4,687,030, Cl. 139-91.000.

Steel Heddle Manufacturing Co., Inc.: *See*—
Root, Steven J.; and Grigsby, James D., 4,706,717, Cl. 139-92.000.

Steel King Industries, Inc.: *See*—
Anderson, Fredric E.; Grzesiak, Garry M.; and Rosenberg, Gary J., 4,662,532, Cl. 220-7.000.

Steel Research Incorporated: *See*—
Taft, Buckie A., 4,653,237, Cl. 52-335.000.

Steel, Robert C.: *See*—
Kent, William H.; and Steel, Robert C., 4,672,753, Cl. 33-366.000.

Steelcase Inc.: *See*—
Baloga, Mark A., 4,715,154, Cl. 52-239.000.
Knoblock, Glenn A.; and Scolten, Brian L., 4,709,894, Cl. 248-406.200.
Speet, Larry A.; and Rentz, Bruce A., 4,703,386, Cl. 361-56.000.

Steele, Bruce B.; Rushing, Allen J.; and Robinson, Kelly S., to Eastman Kodak Company. Electrographic magnetic brush development apparatus and system. 4,714,046, 12-22-87, Cl. 118-657.000.

Steele, Bruce L., to Odetics, Inc. High efficiency magnetic erase head. 4,683,509, 7-28-87, Cl. 360-119.000.

Steele, Charles S.: *See*—
Paslean, James H.; and Steele, Charles S., 4,673,762, Cl. 564-497.000.

Steele, Curtis C. High-pressure water jet tool and seal. 4,715,539, 12-29-87, Cl. 239-263.000.

Steele, David; and Bradford, Robert G., to Burroughs Corporation. Self-aligning document stacker. 4,650,178, 3-17-87, Cl. 271-305.000.

Steele, Dennis L.: *See*—
Wang, Chun S.; Liao, Zeng-kun; and Steele, Dennis L., 4,707,559, Cl. 568-23.000.

Steele, Douglas S.; Little, Francis H.; Sostarich, Joseph J.; and Ingram, Douglas E., to General Electric Company. Ionization detector. 4,682,964, 7-28-87, Cl. 445-28.000.

Steele, Douglas S., to General Electric Company. Ionization detector. 4,691,108, 9-1-87, Cl. 250-385.000.

Steele, Douglas W.; Nash, George S.; Dorsey, John W.; Christy, Ronald S.; and Burns, Timothy L., to Celanese Corporation. Process for devolatilizing molten oxymethylene polymer. 4,692,290, 9-8-87, Cl. 264-101.000.

Steele, Ernest G.: *See*—
Johnston, Albert D.; Tengowski, Joseph L.; Steele, Ernest G.; and Molloy, Edward W., 4,667,788, Cl. 192-45.000.

Steele, Francis J. Gravity fed dispenser for soft drink cup lids and the like. 4,643,334, 2-17-87, Cl. 221-63.000.

Steele, James E., to Bethlehem Steel Corporation. Mobile, offshore jack-up, marine platform adjustable for sloping sea floor. 4,668,127, 5-26-87, Cl. 405-198.000.

Steele, James R., to Dynamic Air Inc. Seal in high pressure pneumatic booster valve. 4,708,535, 11-24-87, Cl. 406-93.000.

Steele, Jeffrey D.: *See*—
Wong, Mon N.; and Steele, Jeffrey D., 4,654,611, Cl. 333-157.000.

Steele, Kenneth M.: *See*—
Danaczko, Mark A.; Finn, Lyle D.; Glasscock, M. Sidney; Piazza, Michael P.; Steele, Kenneth M.; and Weaver, Timothy O., 4,696,603, Cl. 405-227.000.
Finn, Lyle D.; and Steele, Kenneth M., 4,696,604, Cl. 405-227.000.

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car starter. 4,667,141, 5-19-87, Cl. 320-2.000.
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ther R. Flow tank heat exchanger. 4,653,580, 3-31-87, Cl.
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W., II. *See*—
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chard S.: *See*—
bly, John T.; Steele, Richard S.; and Colson, Wendell B.,
7,488, Cl. 428-116.000.
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5,060, Cl. 156-65.000.
bert, to Ampex Corporation. Method and apparatus for
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bert: *See*—
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n, Dennis F.; and Steele, Roger, 4,658,223, Cl. 331-176.000.
Robert: *See*—
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56.000.
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, Long F.; and Steele, Scott W., 4,715,504, Cl. 215-1.00C.
nley V.: *See*—
Charles J.; and Steele, Stanley V., 4,651,543, Cl. 70-54.000.
liam H. *See*—
Gregory S.; Steele, William H.; and Gurtcheff, Glenn A.,
5,475, Cl. 72-254.000.
Invent A.B. *See*—
vist, Berthold, 4,646,437, Cl. 30-166.00A.
Corporation: *See*—
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n Corporation. *See*—
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ce, Leo, 4,711,801, Cl. 428-192.000.
rt J. Apparatus for returning or rebounding a ball. 4,703,931,
Cl. 273-26.00A.
hael J.: *See*—
Gary L.; Steen, Michael J.; and Stephen, Douglas A.,
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Henk, to Laser Magnetic Storage International Company.
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Oil Company. Apparatus for separating hydrocarbon prod-
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W., 4,641,310, Cl. 371-38.000.
Wayne L.: *See*—
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n P.: *See*—
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Brian M.; and Borella, Raymond A., 4,650,800, Cl.
59.000.
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pants. 4,695,279, 9-22-87, Cl. 604-397.000.
E., to Allied Corporation. Seal means for a master cylinder.
8-11-87, Cl. 60-562.000.
L., to Craig Medical Products Limited. Ostomy bag mag-
ling. 4,636,205, 1-13-87, Cl. 604-338.000.
L., to Craig Medical Products Limited. Tap or valve.
2-3-87, Cl. 251-354.000.
L., to Craig Medical Products Limited. Non-return valve
4,645,500, 2-24-87, Cl. 604-378.000.
L., to Craig Medical Products Limited. Gas filter.
5-26-87, Cl. 55-387.000.
L., to Craig Medical Products, Limited. Loop ostomy
4,671,272, 6-9-87, Cl. 128-303.00R.
L., to Craig Medical Products Limited. Ostomy appliance
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Steer, Peter L., to Craig Medical Products Ltd. Ostomy appliance. 4,710,183, 12-1-87, Cl. 604-344.000.
Steer, Peter L., to Craig Medical Products Ltd. Urostomy appliance. 4,714,465, 12-22-87, Cl. 604-340.000.
Steere, Robert; and Lewandowski, Thomas, to Silicon Technology Corporation. Automatic edge grinder. 4,638,601, 1-27-87, Cl. 51-165.710.
Steers, Michel: *See*—
Hazan, Jean-Pierre; and Steers, Michel, 4,639,137, Cl. 356-339.000.
Hazan, Jean-Pierre; and Steers, Michel, 4,713,514, Cl. 219-10.55B.
Stees, Joseph H. Locking differential. 4,663,988, 5-12-87, Cl. 74-711.000.
Stefan, Ammann; and Marcel, Herzig, to Sulzer Brothers, Ltd. Vibration damping mounting for a weaving machine. 4,699,180, 10-13-87, Cl. 139-1.00R.
Stefancin, Ronald J., Jr. Three dimensional mirrored aquarium ornament. 4,639,101, 1-27-87, Cl. 350-616.000.
Stefanescu, Dumitru: *See*—
Tanasescu, Florin T.; Gaitan, Laurentiu Vatafu; and Stefanescu, Dumitru, 4,658,742, Cl. 112-275.000.
Stefani, Fabrizio, to SGS-ATES Componenti Elettronici S.p.A. Monolithically integratable control circuit for switching inductive loads comprising a Darlington-type final stage. 4,636,713, 1-13-87, Cl. 323-350.000.
Stefani, Fabrizio: *See*—
Botti, Edoardo; and Stefani, Fabrizio, 4,714,898, Cl. 330-298.000.
Villa, Flavio; Murari, Bruno; Bertotti, Franco; Torazzina, Aldo; and Stefani, Fabrizio, 4,682,197, Cl. 357-36.000.
Stefani, Giancarlo: *See*—
Fumagalli, Carlo; and Stefani, Giancarlo, 4,668,652, Cl. 502-209.000.
Fumagalli, Carlo; and Stefani, Giancarlo, 4,713,464, Cl. 549-259.000.
Suciu, George D.; Stefani, Giancarlo; and Fumagalli, Carlo, 4,654,425, Cl. 549-259.000.
Stefani, Giannico, to Honeywell Information Systems Italia. Microprogrammed control apparatus for dot matrix serial printers. 4,664,541, 5-12-87, Cl. 400-124.000.
Stefaniak, Philip S.: *See*—
Fromm, George R.; and Stefaniak, Philip S., 4,692,586, Cl. 219-225.000.
Stefanick, Stanley W.: *See*—
Leo, Cosmo L.; and Stefanick, Stanley W., 4,705,257, Cl. 248-611.000.
Stefanini, Giancarlo. Multiple maze game. 4,667,960, 5-26-87, Cl. 273-153.00R.
Stefaniu, Marian: *See*—
Gran, Paul; Feiner, Haim; Ben-Dayan, Nissim; Stefaniu, Marian; and Mar-Chaim, Yochiam, 4,638,453, Cl. 364-900.000.
Stefanov, Michael E.; Sullivan, Brian J.; and Ticknor, Anthony J., to Lockheed Missiles & Space Company, Inc. Self-referencing Mach-Zehnder interferometer. 4,637,725, 1-20-87, Cl. 356-354.000.
Stefanski, Andrew: *See*—
Bente, H. Bryan; Herman, Alan C.; Myerson, Joel; Shaw, Benjamin G.; and Stefanski, Andrew, 4,714,545, Cl. 210-101.000.
Stefany, James H.: *See*—
Holder, Clinton H., Jr.; Kirsch, Howard C.; and Stefany, James H., 4,649,523, Cl. 365-203.000.
Steffe, Will C.; and Wen, David D., to Fairchild Camera and Instrument Corporation. Black and white reference and end-of-scan indicator for charge coupled devices. 4,675,549, 6-23-87, Cl. 307-311.000.
Steffee, Arthur D., to Laure Prosthetics, Inc. Toe implant. 4,642,122, 2-10-87, Cl. 623-21.000.
Steffee, Arthur D., to AcroMed Corporation. Apparatus and method for maintaining vertebrae in a desired relationship. 4,648,388, 3-10-87, Cl. 128-69.000.
Steffee, Arthur D., to AcroMed Corporation. Spinal column straightening apparatus. 4,655,199, 4-7-87, Cl. 128-69.000.
Steffee, Arthur D., to AcroMed Corporation. Apparatus for straightening spinal columns. 4,696,290, 9-29-87, Cl. 128-69.000.
Steffel, Horst, to Spezialmaschinenbau Steffel GmbH & Co. KG. Apparatus for automatically humidifying the bead of tires made of rubber with a humidifying agent. 4,665,860, 5-19-87, Cl. 118-215.000.
Steffen, Hans; and Ferro, Alberto, to Hoffmann-La Roche Inc. Injectable solutions. 4,649,155, 3-10-87, Cl. 514-458.000.
Steffen, Jurg: *See*—
Mayor, Jean-Michel; Steffen, Jurg; and Wuthrich, Peter, 4,695,698, Cl. 219-121.00L.
Steffen, Klaus-Dieter; and Meyer, Gunther, to Dynamit Nobel Aktiengesellschaft. Method of preparing 3,4-dihydro-alpha-pyrones. 4,673,751, 6-16-87, Cl. 549-294.000.
Steffen, Robert P., to Warner-Lambert Company. Method of treating heart failure and medicaments therefor. 4,693,996, 9-15-87, Cl. 514-46.000.
Steffens, Bert. Apparatus for separating the components of cellulose sanitary articles. 4,664,320, 5-12-87, Cl. 241-160.000.
Steffens, James J.: *See*—
Ponte, John R.; Steffens, James J.; and Estreicher, Herbert, 4,666,499, Cl. 71-86.000.
Steffens, Robert S. Ink transfer arrangement and method in a printing press. 4,669,379, 6-2-87, Cl. 101-164.000.
Steffes, Helmut, to ITT Industries Inc. Hydraulic brake system with slip control. 4,660,898, 4-28-87, Cl. 303-114.000.
Steffes, Helmut, to ITT Corporation. Slip controlled brake system for automotive vehicles. 4,693,523, 9-15-87, Cl. 303-114.000.
Steffes, Helmut: *See*—
Reinartz, Hans D.; and Steffes, Helmut, 4,687,259, Cl. 303-114.000.

Reinartz, Hans-Dieter; and Steffes, Helmut, 4,643,489, Cl. 303-114.000.

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Steffinger, Karl, to Siemens Aktiengesellschaft. Right-angled plug-type connector. 4,641,908, 2-10-87, Cl. 339-206.00R.

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Steffy, David A., to Hughes Aircraft Company. Apparatus for ejection of a spacecraft. 4,711,417, 12-8-87, Cl. 244-158.00R.

Stefko, Bela: *See*—
Kelemen, Agnes; Jaksa, Istvan; Stefko, Bela; and Udvardy Nagy nee Cserey Pechany, Eva, 4,657,859, Cl. 435-86.000.

Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo; and Heil, Balint, 4,710,323, Cl. 260-543.00R.

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Stefnik, William S.; and Grims, Frank J. Unitized partition system. 4,667,450, 5-26-87, Cl. 52-238.100.

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Stegall, William A.; and Tittlebaum, Marty E., to William A. Stegall. Two-stage waste water treatment system for single family residences and the like. 4,664,795, 5-12-87, Cl. 210-202.000.

Stege, Jeffrey J., to General Motors Corporation. Air cleaner with crankcase breather assembly. 4,653,457, 3-31-87, Cl. 123-572.000.

Stegelmeier, Hartmut; Fiedler, Volker; Mardin, Mithat; Mayer, Dieter; Perzborn, Elisabeth; and Seuter, Friedel, to Bayer Aktiengesellschaft. Lipoxygenase inhibiting 1-arylalkyl-, 1-arylthio-, and 1-aryloxypyrazole-4,5-diones. 4,659,732, 4-21-87, Cl. 514-404.000.

Stegeman, George T., to General Motors Corporation. Rocker arm and hydraulic lash adjuster with load/motion control button. 4,699,094, 10-13-87, Cl. 123-90.460.

Stegemann, Joachim: *See*—
Houben, Heinz; Petzoldt, Hans U.; and Stegemann, Joachim, 4,678,543, Cl. 202-154.000.

Houben, Heinz; Petzoldt, Hans U.; and Stegemann, Joachim, 4,692,218, Cl. 203-19.000.

Stegenga, Jerry A., to Racal Data Communications Inc. Secure universal housing arrangement for enclosing electronic circuits. 4,652,969, 3-24-87, Cl. 361-384.000.

Steger, Donald J.: *See*—
Engle, Vencil D.; Hafer, Cameron H.; Hughes, Frank M.; Steger, Donald J.; Stewart, Edward G.; Street, Ramon L.; and Thompson, John A., 4,650,351, Cl. 400-120.000.

Steger, Jean P.: *See*—
Sanz, Ernst; Steger, Jean P.; and Thie, Werner, 4,697,597, Cl. 128-699.000.

Steger, John J.: *See*—
Jacobson, Allan J.; Ho, Teh C.; Chianelli, Russell R.; Steger, John J.; and Montagna, Angelo A., 4,716,139, Cl. 502-167.000.

Poeppelmeier, Kenneth R.; Funk, Walter G.; Steger, John J.; Fung, Shun C.; Cross, Virginia R.; and Kao, Jar-Lin, 4,648,960, Cl. 208-138.000.

Tauster, Samuel J.; Montagna, Angelo A.; Steger, John J.; Fung, Shun C.; and Cross, Virginia R., 4,634,517, Cl. 208-138.000.

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Steidl, Larry E.; and Stemm, Christopher D., to Goodyear Tire & Rubber Company, The. Rod gland and hub assembly for tire curing press. 4,684,338, 8-4-87, Cl. 425-33.000.

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Steigerwald, Robert L.; and Kornrumpf, William P., to General Electric Company. Power circuit with high input power factor and a regulated output. 4,642,745, 2-10-87, Cl. 363-37.000.

Steigerwald, Robert L.; and Mistry, Keku M., to General Electric Company. Integrated circuit for controlling power converter by frequency modulation and pulse width modulation. 4,685,040, 8-4-87, Cl. 363-17.000.

Steigerwald, Robert L.; Routh, Kevin C.; Claydon, Glenn S.; and Bicknell, William H., to General Electric Company. HVIC power supply controller with primary-side edge detector. 4,694,384, 9-15-87, Cl. 363-17.000.

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Remmel, Wayne R.; and Steinhardt, Mark S., 4,667,085, Cl. 219-439.000.
Steinhart, Jonathan E., to Tektronix, Inc. Method and apparatus for storing and updating user entered command strings for use with otherwise unassigned softkeys. 4,680,729, 7-14-87, Cl. 364-900.000.
Steinhauer, Jurgen; and Steiniger, Wolfgang, to Hauni-Werke Korber & Co. KG. Apparatus for building a stream of fibrous material. 4,697,603, 10-6-87, Cl. 131-84.400.
Steinhaus GmbH: *See*—
Wolff, Kurt, 4,674,251, Cl. 52-309.150.
Steinhaus, Lothar: *See*—
Vollberg, Fritz; and Steinhaus, Lothar, 4,653,139, Cl. 16-20.000.
Vollberg, Fritz; and Steinhaus, Lothar, 4,658,466, Cl. 16-35.00R.
Steinheuser, Peter: *See*—
Dorband, Glen C.; Liland, Alfred; Menezes, Edgar; Steinheuser, Peter; Popadiuk, Nicholas M.; and Failla, Stephen J., 4,671,280, Cl. 128-334.00C.
Steinhilber, Friedhelm. Device for the feeding of individual sheets to the platen of an office machine. 4,635,923, 1-13-87, Cl. 271-162.000.
Steinhilber, Helmut: *See*—
Paulat, Klaus, 4,648,590, Cl. 271-272.000.
Steinhilber, Wallace F. Manual coin counter and packager. 4,669,252, 6-2-87, Cl. 53-390.000.
Steinhoff, Kenneth. Snow plow attachment. 4,707,936, 11-24-87, Cl. 37-264.000.
Steiniger, Michael; and Stroefer, Eckhard, to BASF Aktiengesellschaft. Preparation of pyrazoles. 4,702,803, 10-27-87, Cl. 204-59.00R.
Steiniger, Michael: *See*—
Degner, Dieter; Hannebaum, Heinz; and Steiniger, Michael, 4,661,217, Cl. 204-59.00R.
Steiniger, Wolfgang: *See*—
Heitmann, Bob; Schluter, Karl-Heinz; and Steiniger, Wolfgang, 4,659,414, Cl. 156-361.000.
Lorenzen, Heinz-Christen; Heitmann, Uwe; and Steiniger, Wolfgang, 4,651,754, Cl. 131-84.300.
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Steinigeweg, Rolf-Jurgen, to Siemens Aktiengesellschaft. Apparatus for forming the actual value of a torque in a three-phase synchronous machine with current-block feeding. 4,714,878, 12-22-87, Cl. 324-158.0MG.
Steininger, Helmut, to Battelle-Institut e.V. Carrier for the manufacture of abrasion-resistant catalysts, process for the production of the carrier and catalyst deposited on the carrier. 4,703,028, 10-27-87, Cl. 502-178.000.
Steininger, Helmut: *See*—
Heide, Helmut; Etzkorn, Heinz-Werner; Poeschel, Eva; and Steininger, Helmut, 4,702,930, Cl. 427-2.000.
Steininger, Hugh D.: *See*—
Fulmer, Keith H.; Peebles, Arthur K.; and Steininger, Hugh D., 4,681,196, Cl. 192-3.00H.
Steinkamp, Rolf: *See*—
Muller, Josef; Wiersdorff, Walter-Wielant; Burst, Wolfram; Dralle, Heinz; Schaffner, Ernst; and Steinkamp, Rolf, 4,661,610, Cl. 558-344.000.
Steinkamper, Reinhard; Boll, Wolf; and Peitsmeier, Karl, to Daimler-Benz Aktiengesellschaft. Shaft connection arrangement. 4,678,361, 7-7-87, Cl. 403-359.000.
Steinke, Alexander, to Kraftwerk Union Aktiengesellschaft. Nuclear reactor fuel assembly. 4,666,663, 5-19-87, Cl. 376-441.000.
Steinke, Alexander: *See*—
Fromel, Gustav; and Steinke, Alexander, 4,683,115, Cl. 376-439.000.
Steinke, Dale F., to F. Korbel and Bros. Apparatus for classifying juice squeezed from grapes. 4,651,637, 3-24-87, Cl. 100-117.000.
Steinke, Earl, to Cooper Industries, Inc. Recessed lighting fixture having thermal protection. 4,635,172, 1-6-87, Cl. 362-276.000.
Steinke, James A., to Durkee Industrial Foods, Corp. Particulate composition and process for making same. 4,698,264, 10-6-87, Cl. 428-402.200.
Steinke, James A.: *See*—
Barnes, Janette M.; and Steinke, James A., 4,689,235, Cl. 426-89.000.
Steinke, Kurt E.: *See*—
Hulsing, Rand H., II; Peters, Rex B.; and Steinke, Kurt E., 4,672,752, Cl. 33-302.000.

Rudi: *See—*
l, Werner; Rothaut, Josef; Klaus, Angela; and Steinke, Rudi, 89,197, Cl. 419-23.000.
ner, John E.: *See—*
er, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, vid M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, eorge D.; John, Clarence D., Jr.; Steinkirchner, John E.; Lasere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 87,605, Cl. 264-0.500.
Willi, to Mike & Kremmel Ltd. Devices for crushing, mashing grinding foodstuffs. 4,714,205, 12-22-87, Cl. 241-95.000.
. Anton: *See—*
Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, rl-Friedrich; Muhlich, Albert; Rau, Karlheinz; Ruffing, Wolfng; Simmat, Fritz; Steinkohl, Anton; and Takke, Ralf, 76,814, Cl. 65-3.120.
. Richard B.: *See—*
ar, Ashok K.; Poole, William E., Jr.; and Steinkolk, Richard 4,683,447, Cl. 331-177.00V.
er, Heinz-Gunter: *See—*
khoff, Helmut; Glorius, Gunter; and Steinkötter, Heinznter, 4,697,299, Cl. 15-323.000.
ger, Frederick J.: *See—*
ek, Philip M.; Steinkruger, Frederick J.; and Moody, David C., 64,892, Cl. 423-2.000.
. Bernd: *See—*
mann, Christoph; Nickel, Gerhard; Steinkuhl, Bernd; Mertenerhard; and Pfefferle, Egon. 4,715,859, Cl. 299-43.000.
er, Claude C.: *See—*
e, Robert A.; Schlonski, James S.; and Steinkuhler, Claude C., 66,662, Cl. 376-315.000.
er, Siegfried; and Wantig, Ulrich, to O&K Orenstein & Koppstiengesellschaft. Bucket wheel dredging device. 4,646,449, Cl. 37-66.000.
er, Gunther: *See—*
pape, Reinhart; Dorrscheidt, Wolfgang; Roze, Jean-Philippe; d Steinleitner, Gunther, 4,683,179, Cl. 429-104.000.
, Philippe; and Steinleitner, Gunther, 4,659,638, Cl. 9-104.000.
. Kenneth. Fishing lure. 4,665,642, 5-19-87, Cl. 43-42.520.
. Lawrence; Waldor, Matthew K.; Sriram, Subramanian; berg, Leonard A.; and Herzenberg, Leonore A., to Leland rd Junior University, The Board of Trustees of. Method of g autoimmune diseases that are mediated by Leu3/CD4 phenocells. 4,695,459, 9-22-87, Cl. 424-95.000.
n, Joachim, to Kloeber GmbH & Co. Work chair with a tilting tism for seat squab and backrest. 4,709,962, 12-1-87, Cl. 1.000.
er, Alwin G., Jr.; and Williams, Ralph O., to United States of ca, Air Force. Pulse repetition modulator apparatus. 4,651,114, , Cl. 332-9.00R.
z, Alan L.; and Krinski, Thomas L., to Ralston Purina Com-Modified protein adhesive binder and process for producing. 26, 8-18-87, Cl. 527-201.000.
z, Alan L.: *See—*
ski, Thomas L.; Coco, Charles E.; and Steinmetz, Alan L., 89,381, Cl. 527-201.000.
ski, Thomas L.; and Steinmetz, Alan L., 4,713,116, Cl. 6-154.100.
z, Floyd, Jr. Free drop liquid container with extendable spout 98, 9-29-87, Cl. 206-521.000.
z, Guy R.; and Rule, Mark, to Eastman Kodak Company. ylation process for the production of aromatic acids. 90, 11-10-87, Cl. 562-406.000.
z, Guy R.: *See—*
, Mark; Larkins, Thomas H., Jr.; Lane, Donald W.; and Steintz, Guy R., 4,649,216, Cl. 562-406.000.
, Herbert: *See—*
man, Scott R.; and Steinmetz, Herbert, 4,635,366, Cl. 33-0B
, Richard J.: *See—*
ell, George R.; Steinmetz, Richard J.; and Sutton, Leroy A., 45,988, Cl. 315-401.000.
Hans, to Senkingwerk GmbH. Method of discharging a wash dry press. 4,676,154, 6-30-87, Cl. 100-37.000.
lte, Werner, to Naturliche Familien-Planung (NFP) GmbH. meter probe for measuring the temperature in low-convecdia. 4,654,623, 3-31-87, Cl. 338-28.000.
l, Odd S.: *See—*
cht, Thomas; and Steinsland, Odd S., 4,663,317, Cl. -211.000.
Robert: *See—*
strach, Ivan; and Steinthal, Robert, 4,664,417, Cl. 283-1.00B.
, Johannes: *See—*
Max; Korostenski, Erwin; and Steinwart, Johannes, 4,643,138, 123-52.00M.
Kettenfabriken Pengg-Walenta KG: *See—*
, Ferdinand, 4,679,608, Cl. 152-213.00A.
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lliam C.: *See—*
o, Oliver L.; Bork, Carl R., Jr.; Steiss, William C.; and Levend, Donald A., 4,634,099, Cl. 251-335.300.
ce, Terrence J.; Bork, Carl R., Jr.; Steiss, William C.; Shufarger, Earl D.; and Tobbe, William P., 4,684,106, Cl. -335.200.
Scheffel, Gary W.; Medvick, Richard J.; and Steiss, William C., 4,637,430, Cl. 137-516.290.
Stella, Joseph A.; and Corrigan, Alfred E., to Polaroid Corporation. Film counter. 4,645,322, 2-24-87, Cl. 354-180.000.
Stella, Joseph A., to Polaroid Corporation. Film processor. 4,645,323, 2-24-87, Cl. 354-303.000.
Stella, Joseph A., to Polaroid Corporation. Film advancing apparatus. 4,664,492, 5-12-87, Cl. 354-212.000.
Stella, Leo, to Torrington Company, The. Roller bearing with lubricant reservoir. 4,657,414, 4-14-87, Cl. 384-548.000.
Stella, Valentino J.; and Kennedy, Paul E., to University of Kansas. Prodrugs of rapamycin. 4,650,803, 3-17-97, Cl. 514-291.000.
Stella Werke AG: *See—*
Sabet, Iraj, 4,712,765, Cl. 249-91.000.
Stellaccio, Robert J., to Texaco Inc. Method of controlling the temperature of a partial oxidation burner. 4,666,463, 5-19-87, Cl. 48-197.00R.
Stellaccio, Robert J.; and Suggitt, Robert M., to Texaco Inc. Coal gasification process. 4,692,172, 9-8-87, Cl. 48-197.00R.
Stellato, Richard J. Appliance repair tilt stand. 4,674,731, 6-23-87, Cl. 269-79.000.
Steller, Richard G.: *See—*
Ray, Charles D.; and Steller, Richard G., 4,662,619, Cl. 269-328.000.
Stellmach, Dieter: *See—*
Wysk, Hans-Joachim; Stellmach, Dieter; Nolte, Bernhard; Gronwald, Gerd; and Maedge, Werner, 4,701,063, Cl. 400-621.000.
Stellmacher, Klaus, to Conducta Gesellschaft fur Mess-und Regeltechnik mbH & Co. Multiple combination electrode with associated multi-point plug mount. 4,657,657, 4-14-87, Cl. 204-400.000.
Stellmacher, Wolfgang: *See—*
Arndt, Jentzsch; Schumann, Guenter; and Stellmacher, Wolfgang, 4,686,901, Cl. 101-148.000.
Stellwagen, Armin: *See—*
Kreth, Norbert; Buttner, Peter; and Stellwagen, Armin, 4,688,600, Cl. 137-596.000.
Stelma, Michael J.; and Dehem, Paul R. Drummer's glove. 4,681,012, 7-21-87, Cl. 84-422.00S.
Stelte, Franz-Josef: *See—*
Oldemeyer, Wilhelm; and Stelte, Franz-Josef, 4,670,302, Cl. 427-212.000.
Steltenkamp, Robert J.; and Camara, Michael A., to Colgate-Palmolive Company. Antistatic composition and detergent compositions containing antistatic components. 4,676,915, 6-30-87, Cl. 252-8.800.
Steltenkamp, Robert J.; and Camara, Michael A., to Colgate-Palmolive Company. Antistatic N-higher mono alkyl and mono alkenyl neoalkanamides, processes for manufacturing thereof, antistatic compositions containing such amides, and processes for decreasing accumulations of static charges on laundry. 4,682,982, 7-28-87, Cl. 8-137.000.
Steltenkamp, Robert J.; and Camara, Michael A., to Colgate-Palmolive Company. Antistatic agents which are diamines of trialkylacetic acids and diamines. 4,714,559, 12-22-87, Cl. 252-8.800.
Steltenkamp, Robert J.; and Camara, Michael A., to Colgate-Palmolive Company. Wash cycle fabric conditioning composition, process for manufacture of such composition, and method of use thereof. 4,715,862, 12-29-87, Cl. 8-137.000.
Steltenkamp, Robert J.; and Camara, Michael A., to Colgate-Palmolive Company. Wash cycle additive antistatic composition for treatment of laundry, process for manufacture of such composition and method of use thereof. 4,715,970, 12-29-87, Cl. 252-8.800.
Stelter, Norbert: *See—*
Beeck, Peter op de; Wuest, Rainer; and Stelter, Norbert, 4,679,145, Cl. 364-424.100.
Stelzenmuller, William K., to International Business Machines Corporation. Method of spatially thresholding a discrete color image. 4,673,977, 6-16-87, Cl. 358-133.000.
Stelzer, Heinz: *See—*
Ball, Wilfried; Stelzer, Heinz; Ritzl, Fritz; Siebold, Hermann; Hens, Peter; and Hautmann, Edmund, 4,676,524, Cl. 280-75.600.
Stemco, Inc.: *See—*
Gregorich, Edward E.; and Maher, Timothy R., 4,690,245, Cl. 181-272.000.
Stemcor Corporation: *See—*
Bates, Carl H., 4,690,790, Cl. 264-63.000.
Boecker, Wolfgang D. G.; and Reini, George I., 4,692,418, Cl. 501-90.000.
Boecker, Wolfgang D. G.; Hailey, Laurence N.; and McMurtry, Carl H., 4,701,427, Cl. 501-92.000.
Korzekwa, Tadeusz M.; McMurtry, Carl H.; and Boecker, Wolfgang D. G., 4,695,294, Cl. 51-307.000.
Stemke, Jeffrey E., to Chevron Research Company. Grease composition. 4,661,276, 4-28-87, Cl. 252-51.50A.
Stemler, J. Robert; Klingensmith, James D.; Menzemer, Craig C.; Kulicki, John M.; and Theofanis, Nicholas D., to Aluminum Company of America. Bridge deck system. 4,709,435, 12-1-87, Cl. 14-73.000.
Stemm, Christopher D.: *See—*
Steidl, Larry E.; and Stemm, Christopher D., 4,684,338, Cl. 425-33.000.
Stemme, Otto; and Wagensonner, Eduard, to Agfa-Gevaert Aktiengesellschaft. Method of and apparatus for making video images. 4,652,929, 3-24-87, Cl. 358-214.000.
Stemmer, Gottfried: *See—*
Fruth, Rupert; Stemmer, Gottfried; and Pohl, Claus, 4,673,815, Cl. 250-548.000.

Stemmer, Horst-Heinz: *See*—
Rahmede, Karl-Heinz; and Stemmer, Horst-Heinz, 4,695,181, Cl. 403-135.000.
Stemmle, Denis J., to Xerox Corporation. Auto duplex reproduction machine. 4,660,963, 4-28-87, Cl. 355-24.000.
Stemmle, Denis J., to Xerox Corporation. Sorter and reciprocating stapler apparatus. 4,687,191, 8-18-87, Cl. 270-53.000.
Stemmle, Denis J., to Xerox Corporation. Auto duplex reproduction machine. 4,708,462, 11-24-87, Cl. 355-24.000.
Stemmle, Denis J., to Xerox Corporation. Self adjusting paper guide. 4,708,468, 11-24-87, Cl. 355-72.000.
Stemmle, Denis J., to Xerox Corporation. Sheet stacking apparatus. 4,712,785, 12-15-87, Cl. 271-187.000.
Stemmler, Herbert, to BBC Brown, Boveri & Company, Limited. Reactive-power compensator for compensating a reactive-current component in an alternating-voltage system. 4,647,837, 3-3-87, Cl. 323-207.000.
Stemmler, Herbert: *See*—
Dahler, Peter; Neidhart, Peter; Sadek, Kadry; and Stemmler, Herbert, 4,639,846, Cl. 363-39.000.
Rey, Antoine; and Stemmler, Herbert, 4,680,531, Cl. 323-206.000.
Stemmler, Kurt, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei GmbH & Co. KG. Method and apparatus for securing elastic tapes to a material web. 4,642,150, 2-10-87, Cl. 156-164.000.
Stemmler, Kurt; and Blumle, Martin, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei GmbH & Co. KG. Article turning device. 4,648,503, 3-10-87, Cl. 198-410.000.
Stemmler, Kurt, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei GmbH & Co. KG. Absorption pad for hygienic applications and process for its manufacture. 4,650,480, 3-17-87, Cl. 604-368.000.
Stemmler, Kurt, to Winkler & Dunnebier Maschinenfabrik und Eisengiesserei GmbH & Co. KG. Plant for producing stacks of intermeshed blanks of paper, cellulose or the like, folded in a zig-zag manner. 4,709,606, 12-1-87, Cl. 83-94.000.
Stemper, Virginia. Teaching wheels. 4,634,385, 1-6-87, Cl. 434-198.000.
Stempfl, Gerhard: *See*—
Humbs, Rolf; and Stempfl, Gerhard, 4,688,692, Cl. 220-3.800.
Stempfle, Johann: *See*—
Babsch, Alfred; Beth, Dieter; Panzer, Werner; and Stempfle, Johann, 4,673,810, Cl. 250-231.0SE.
Stempfle, Julius E.; and Partipilo, Roger D. Portable infusion device. 4,657,486, 4-14-87, Cl. 417-12.000.
Stempfle, Julius E., to Tektronix, Inc. Cathode ray tube and method of manufacture. 4,704,094, 11-3-87, Cl. 445-30.000.
Stempin, Gary A. Wall mounted ski holder. 4,635,800, 1-13-87, Cl. 211-70.500.
Sten, Matti: *See*—
Forss, Kaj; Sten, Matti; Peltonen, Juhani; and Jokela, Veikko, 4,681,935, Cl. 536-56.000.
Stenberg, Bengt: *See*—
Edholm, Stig; and Stenberg, Bengt, 4,639,711, Cl. 338-114.000.
Stenberg, Erik G., to KMW Aktiebolag. Vat paper machine. 4,659,432, 4-21-87, Cl. 162-318.000.
Stenberg, Johan E.: *See*—
Bjork, Nils A. N.; Sandstrom, Erland T.; Stenberg, Johan E.; and Stiblert, Lars B., 4,647,207, Cl. 356-369.000.
Bjork, Nils A. N.; Sandstrom, Erland T.; Stenberg, Johan E.; and Stiblert, Lars B., 4,655,595, Cl. 356-369.000.
Nygren, Bo H.; and Stenberg, Johan E., 4,673,584, Cl. 427-2.000.
Stenberg, Kaj O.: *See*—
Christopherson, Kjell H.; Odelius, Tomas; Rosemeier, Friedrich; Stenberg, Kaj O.; Svensson, Tommy E.; and Killmaier, Horst, 4,636,204, Cl. 604-283.000.
Larsson, Nils E.; and Stenberg, Kaj O., 4,666,427, Cl. 604-51.000.
Stenberg, Karl-Erik, to Vaxjo-Protes AB. Hydraulic device. 4,662,486, 5-5-87, Cl. 188-312.000.
Stencel Aero Engineering Corp.: *See*—
Miseyko, George; Peck, Walter R.; and Chase, Ronald G., 4,637,577, Cl. 244-147.000.
Stendahl, Kjell E.: *See*—
Ling, Tommy; and Stendahl, Kjell E., 4,663,055, Cl. 210-738.000.
Stendal, Karl-Emil. Lock. 4,697,442, 10-6-87, Cl. 70-97.000.
Stendel, Wilhelm: *See*—
Ingendoh, Axel; Berschauer, Friedrich; Becker, Benedikt; Stendel, Wilhelm; Homeyer, Bernhard; Scheer, Martin; de Jong, Anno; Hanssler, Gerd; and Reinecke, Paul, 4,678,797, Cl. 514-378.000.
Ingendoh, Axel; Scheinert, Wolfgang; Becker, Benedikt; Halcour, Kurt; and Stendel, Wilhelm, 4,681,892, Cl. 514-378.000.
Kruger, Bernd-Wieland; Behrenz, Wolfgang; Becker, Benedikt; Homeyer, Bernhard; and Stendel, Wilhelm, 4,695,563, Cl. 514-105.000.
Maurer, Fritz; Homeyer, Bernard; and Stendel, Wilhelm, 4,678,776, Cl. 514-89.000.
Naumann, Klaus; Braden, Rudolf; Behrenz, Wolfgang; Becker, Benedikt; Homeyer, Bernhard; and Stendel, Wilhelm, 4,699,922, Cl. 514-531.000.
Sirrenberg, Wilhelm; Klauke, Erich; Zoebelein, Gerhard; Becker, Benedikt; and Stendel, Wilhelm, 4,699,916, Cl. 514-364.000.
Sirrenberg, Wilhelm; Klauke, Erich; Hammann, Ingeborg; and Stendel, Wilhelm, 4,711,905, Cl. 514-522.000.
Stender, Werner: *See*—
Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Biagoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Max, Arnold, 4,695,559, Cl. 502-183.000.
Steneck, Walter G.: *See*—
Stupp, Edward H.; Fellows, Mark W.; and Steneck, Walter G., 4,701,671, Cl. 315-224.000.
Stener, Werner: *See*—
Gerstner, Richard; Look, Gunter; Seybold, Werner; and Stener, Werner, 4,707,034, Cl. 301-6.00V.
Stengel, Bruce W.: *See*—
Jonovic, John A.; Stengel, Bruce W.; and Mally, Timothy G., 4,684,040, Cl. 222-148.000.
Stengel, Gerhard: *See*—
Neumann-Henneberg, Wolf; Futterknecht, Kuno; Stengel, Gerhard; Haag, Emil; and Schutzbach, Bernd, 4,653,179, Cl. 29-622.000.
Stengel, Kevin M.: *See*—
AbuJudom, David N., II; Dougherty, Joseph P.; and Stengel, Kevin M., 4,708,600, Cl. 417-322.000.
Stengelin, Ernst, to Klockner Ferromatik Desma GmbH. Mold press having a mold cleaning device. 4,687,431, 8-18-87, Cl. 425-229.000.
Stenger, Barbara J. Information reference book and indexing system. 4,696,491, 9-29-87, Cl. 283-37.000.
Stengl, Reinhard; Goesele, Ulrich; and Fellinger, Christine, to Siemens Aktiengesellschaft. Method for the manufacture of a pn junction with high breakdown voltage. 4,672,738, 6-16-87, Cl. 29-576.00B.
Stening, Goran B.: *See*—
Eriksson, Bertil F. H.; Helgstrand, Ake J. E.; Misiorny, Alfons; Stening, Goran B.; and Stridh, Stig A., 4,665,062, Cl. 514-120.000.
Stenkamp, Werner: *See*—
Pitter, Andreas; and Stenkamp, Werner, 4,697,798, Cl. 267-70.000.
Stenkvist, Sven-Einar: *See*—
Rappinger, Bo; and Stenkvist, Sven-Einar, 4,701,931, Cl. 373-72.000.
Stenmans, Heinz: *See*—
Frentzel-Beyme, Johannes; and Stenmans, Heinz, 4,711,081, Cl. 57-279.000.
Stenmark, Dag, to S & L Maskin AB. Tap holder. 4,669,930, 6-2-87, Cl. 408-140.000.
Stenmark, Lars. Infrared-sensitive detector consisting of Peltier element. 4,641,134, 2-3-87, Cl. 340-567.000.
Stenneler, Jacques M. P.: *See*—
Naudet, Jacky; and Stenneler, Jacques M. P., 4,706,354, Cl. 29-156.80R.
Stenner, Gustave H. Gear motor housing. 4,708,027, 11-24-87, Cl. 74-421.00A.
Stenner, John W., to Kurt H. Volk, Inc. Direct mail article with reply envelope and detachable reply devices visible within reply envelope. 4,651,920, 3-24-87, Cl. 229-70.000.
Stennett, Edwin A.: *See*—
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Stensaas, Larry J.; Todd, R. Joseph; and Triolo, Philip M., to University of Utah Research Foundation. Prostheses and methods for promoting nerve regeneration. 4,662,884, 5-5-87, Cl. 623-12.000.
Stenstrom, Eric J.: *See*—
Wright, Steven F.; Stenstrom, Eric J.; and Wolyn, Joseph, 4,633,584, Cl. 29-834.000.
Stenstrom, Lennart, to Asea Aktiebolag. Protective circuit for series capacitor banks. 4,703,385, 10-27-87, Cl. 361-16.000.
Stenvinkel, Bengt, to Thermo Produkter B.S. Ab. Energy saving refrigeration apparatus having a control means. 4,658,593, 4-21-87, Cl. 62-126.000.
Stenz, Karl, and Baltes, Horst, to General Motors Corporation. Device for releasably connecting a seat portion to the vehicle body. 4,707,033, 11-17-87, Cl. 297-452.000.
Stenzel, Gerhard; and Kaule, Wittich, to GAO Gesellschaft fur Automation und Organisation mbH. Examining method for the wear-condition of data carriers. 4,650,319, 3-17-87, Cl. 356-51.000.
Stenzel, Gerhard; and Kaule, Wittich, to GAO Gesellschaft fur Automation und Organisation mbH. Printed security with hallmarks. 4,691,940, 9-8-87, Cl. 283-70.000.
Stenzel, Otto, to Leybold-Heraeus GmbH. Method and apparatus for melting rod-shaped material with an induction coil. 4,639,567, 1-27-87, Cl. 219-10.430.
Stenzel, Otto: *See*—
Sick, Georg; Stenzel, Otto; Kohnert, Heinz; and Kemmer, Hans Johann, 4,658,404, Cl. 373-143.000.
Step On Inc.: *See*—
Ritten, Robert G., 4,712,503, Cl. 114-343.000.
Stepan Company: *See*—
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Materna, Anthony T.; Vossler, Roger A.; and Stepczyk, Frank M., 4,714,995, Cl. 364-200.000.
Stephan, Eberhart. Portable apparatus for taking blood samples. 4,696,309, 9-29-87, Cl. 128-762.000.
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Oldengott, Michael; Schade, Jorg; and Stephan, Peter, 4,669,074, Cl. 241-101.700.
Stephan, Robert W., to Vickers, Incorporated. Power transmission. 4,662,046, 5-5-87, Cl. 29-156.40R.
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Otto, Friedrich, 4,650,337, Cl. 366-70.000.
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Enkner, Bernhard; Stephani, Dietmar; Schropp, Leopold; and Stastny, Wilhelm, 4,678,419, Cl. 425-143.000.
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Reutler, Harald; Loser, Wolfgang; Muhlbach, Heinz; Richter, Gerhard; and Stephani, Gunter, 4,660,622, Cl. 164-463.000.
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Froelich, Hans; Hepperle, Willi; Katzer, Johann; and Stephany, Christian, 4,639,018, Cl. 285-184.000.
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Stephen, Donald S.: *See*—
Nelson, Ralph F.; and Stephen, Donald S., 4,673,165, Cl. 254-132.000.
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Stephen, John F.: *See*—
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Kruse, Walter M.; and Stephen, John F., 4,645,839, Cl. 546-290.000.
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Krage, William G.; Stephens, Barry D.; and Denman, Owen S., 4,711,481, Cl. 293-133.000.
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Stephens, Charles W. Cycle hub convertible between coaster brake and freewheeling operation. 4,650,049, 3-17-87, Cl. 192-6.00R.
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Stephens, Donald L.: *See*—
Larsen, Hals N.; and Stephens, Donald L., 4,697,551, Cl. 123-41.310.
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Stephens, Richard J. Portable voting booth/lectern. 4,660,904, 4-28-87, Cl. 312-140.200.
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Stephens, William J.: *See*—
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Cosmos, Pete; Scully, Michael J.; and Stephenson, Brian D., 4,687,263, Cl. 439-108.000.
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Stephenson, Edgar O., to Kawasaki Thermal Systems, Inc. Internal seal for insulated steam injection casing assembly. 4,635,967, 1-13-87, Cl. 285-45.000.
Stephenson, Edgar O.; and Howe, Raymond C., to Kawasaki Thermal Systems, Inc. Insulated wellbore casing. 4,693,313, 9-15-87, Cl. 166-302.000.
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Stephenson, Jack E.: *See*—
Lu, Chun C.; Miller, William J.; Stephenson, Jack E.; and Jayapalan, Jay P., 4,652,703, Cl. 379-339.000.
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Stephenson, Robert G., to James Howden Australia Pty. Limited. Fabric filter shaker assembly. 4,637,826, 1-20-87, Cl. 55-304.000.

Stephenson, Stanley W., to Eastman Kodak Company. Thermal printer color dye frame identification using red and yellow light sources. 4,710,781, 12-1-87, Cl. 346-76.0PH.

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Jablonski, Marek; Kwapisz, Bogdan; Proniewicz, Andrzej; Stepniewska-Jarzebska, Joanna; and Tokarski, Czesław J., 4,662,982, Cl. 156-617.0SP.

Stepp, Lee W.; Baldridge, Morris G.; and Treece, Harold O., to Halliburton Company. Automatic fill-up floating apparatus. 4,683,955, 8-4-87, Cl. 166-227.000.

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Stepp, Lee W.: *See*—
Zunkel, Gary D.; Stepp, Lee W.; and Bolin, Michael L., 4,664,188, Cl. 166-134.000.

Stepp, Richard, to Siemens Aktiengesellschaft. Method and circuit for determining the presence or absence of at least one frequency of known value in an input signal composed of several frequencies. 4,668,910, 5-26-87, Cl. 324-77.00B.

Steppan, Hartmut: *See*—
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Lutz, Walter; and Steppan, Hartmut, 4,661,432, Cl. 430-175.000.

Steppat, Gerhard: *See*—
Biermann, Kurt; and Steppat, Gerhard, 4,646,668, Cl. 112-320.000.

Steppe, Dennis L.; Hood, Larry L.; and Boggs, Gary D., to CooperVision, Inc. Cassette for surgical irrigation and aspiration and sterile package therefor. 4,713,051, 12-15-87, Cl. 604-30.000.

Stepper, Inc.: *See*—
Hannon, Charles N., 4,702,467, Cl. 271-133.000.

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Sterba, Richard F.; and Slade, James R., Jr. Multi-function weight lifting exercise system. 4,700,944, 10-20-87, Cl. 272-117.000.

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Slade, James R., Jr.; and Sterba, Richard F., 4,709,922, Cl. 272-123.000.

Stereochemical Genetics, Inc.: *See*—
Hendry, Lawrence B.; Diamond, Ana H.; Diamond, Bruce I.; and Ewing, Douglas E., 4,705,796, Cl. 514-328.000.

Stereoscopes Lestrade & Cie, S.A.: *See*—
Chevalier, Louis, 4,660,931, Cl. 350-140.000.

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Lofgren, Peter; and Arthun, Nils, 4,674,655, Cl. 222-48.000.
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Poncy, George W., 4,672,700, Cl. 5-441.000.
Poncy, Richard P.; and Chrzanowski, Mathew, 4,690,457, Cl. 297-337.000.

Sterk, Olivier: *See*—
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Sterkin, Viktor E.: *See*—
Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.

Sterling Davis Electric: *See*—
Pepe, David, 4,664,325, Cl. 242-25.00A.

Sterling Drug Inc.: *See*—
Bell, Malcolm R., 4,634,776, Cl. 548-493.000.
Brocklehurst, Peter; and Ferguson, Angus S., 4,643,840, Cl. 252-160.000.
Christiansen, Robert G.; Bell, Malcolm R.; Herrmann, John L., Jr.; and Opalka, Chester J., Jr., 4,684,636, Cl. 514-176.000.
Clark, William A.; and Pregozen, David, 4,666,621, Cl. 252-91.000.
Crounse, Nathan N.; and Heitz, James R., 4,647,578, Cl. 514-454.000.
Daum, Sol J.; and Lesher, George Y., 4,698,350, Cl. 514-312.000.
Lesher, George Y.; and Singh, Baldev, 4,634,772, Cl. 546-288.000.
Lesher, George Y.; and Singh, Baldev, 4,650,806, Cl. 514-335.000.
Lesher, George Y.; and Singh, Baldev, 4,657,915, Cl. 514-300.000.
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Lesher, George Y.; and Singh, Baldev, 4,716,170, Cl. 514-300.000.
Morgan, Barry A., 4,658,013, Cl. 530-302.000.
Obrist, Gerhard, 4,673,107, Cl. 222-94.000.
Philion, Richard E., 4,695,589, Cl. 514-653.000.
Singh, Baldev, 4,699,984, Cl. 546-338.000.

Sterling, Edward L., Jr.; and Thompson, William L., to Babcock & Wilcox Company, The. On-line serial communication interface from a computer to a current loop. 4,691,328, 9-1-87, Cl. 375-36.000.

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Robertson, John W., Jr.; Bastijanic, Edward; and Sterling, Edward L., Jr., 4,655,074, Cl. 73-4.00R.

Sterling Engineered Products Inc.: *See*—
Hubbard, Charles E.; and Berkemeier, Donald E., 4,674,167, Cl. 29-401.100.

Stern, Beth A.; and Holtman, Dennis C., to Personal Products Company. Disposable urinary and fecal waste containment product. 4,681,577, 7-21-87, Cl. 604-378.000.

Stern, Brett. Method of manufacturing heat molding garments. 4,645,629, 2-24-87, Cl. 264-23.000.

Stern, Donald J.; and Allsop, Jon I. Painting apparatus and method. 4,639,156, 1-27-87, Cl. 401-146.000.

Stern, Ernest R.: *See*—
Withers, Richard S.; Ralston, Richard W.; and Stern, Ernest R., 4,652,926, Cl. 358-213.000.

Stern, Geoffrey S.; Avni, Zion; Gonen, Amos; and Peleg, Amiram, to Spectronix Ltd. Automatic modular fire extinguisher system for computer rooms. 4,691,783, 9-8-87, Cl. 169-61.000.

Stern, Harold; and Suleiman, Elisabeth, to International Playtex, Inc. Brassiere. 4,655,224, 4-7-87, Cl. 128-443.000.

Stern, Howard, to Robotic Vision Systems, Inc. Arrangement for scanned 3-D measurement. 4,643,578, 2-17-87, Cl. 356-376.000.

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Ross, Joseph; and Stern, Howard, 4,652,205, Cl. 414-786.000.
Schmidt, Richard; Stern, Howard; Mauro, Alex; and Ross, Joseph, 4,682,894, Cl. 356-375.000.

Stern, Howard S.: *See*—
Greene, Franklin R.; Stern, Howard S.; and Waye, Jerome D., 4,640,273, Cl. 128-136.000.

Stern, Kurt H., to United States of America, Navy. Electrodeposition of refractory metal silicides. 4,662,998, 5-5-87, Cl. 204-39.000.

Stern, Kurt J. Knockdown furniture. 4,714,027, 12-22-87, Cl. 108-111.000.

Stern, Lawrence, to Westinghouse Electric Corp. Hydraulic elevator system. 4,667,775, 5-26-87, Cl. 187-17.000.

Stern, Lee W.: *See*—
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Stern, Leif E. Air operated motor. 4,669,951, 6-2-87, Cl. 415-90.000.

Stern, Leif E. Method of making brushes, and brushes thus made. 4,687,257, 8-18-87, Cl. 300-21.000.

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Stern, Michael A. Firearm safety apparatus. 4,644,676, 2-24-87, Cl. 42-70.070.

Stern, Michael E.: *See*—
Mlynczak, Margaret M.; and Stern, Michael E., 4,657,727, Cl. 376-217.000.

Stern, Peter: *See*—
Prussas, Herbert; and Stern, Peter, 4,689,719, Cl. 361-386.000.

Stern, Richard A.; and Babbitt, Richard W., to United States of America, Army. Ferrite waveguide scanning antenna. 4,691,208, 9-1-87, Cl. 343-785.000.

Stern, Richard M., to Riker Laboratories, Inc. Intermediates for the preparation of 8,9-dihalobenzo[ij]quinolizine carboxylic acids. 4,691,016, 9-1-87, Cl. 546-95.000.

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Scherrer, Robert A.; Stern, Richard M.; and Hammar, Walton J., 4,675,320, Cl. 514-253.000.

Stern, Robert; Hillion, Gerard; Gateau, Paul; and Guibet, Jean-Claude, to Institut Francais du Petrole. Process for manufacturing a composition of fatty acid esters useful as gas oil substitute motor fuel with hydrated ethyl alcohol and the resultant esters composition. 4,695,411, 9-22-87, Cl. 260-410.90R.

Stern, Timothy R.: *See*—
Lake, Ralph J., Jr.; Stern, Timothy R.; Sudol, George A.; and Selepouchin, Vladimir, 4,683,465, Cl. 340-700.000.

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Gallagher, Nicholas D.; Sternasty, Richard S.; and James, Richard A., 4,698,248, Cl. 428-41.000.

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m G.: *See*—
Ronald L.; and Sterns, William G., 4,660,047, Cl. 343-S.

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Stewart, Ian F., to Rolls-Royce plc. Fan duct casing. 4,699,567, 10-13-87, Cl. 415-200.000.

Stewart, Ian M.: *See*—
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Stewart Industries, Inc.: *See*—
Stewart, Stephen P., 4,703,981, Cl. 312-258.000.

Stewart, James B., to Kidde Consumer Durables Corp. Microwave browning cookware. 4,701,585, 10-20-87, Cl. 219-10.55E.

Stewart, James J.: *See*—
Solomon, Frank; Grun, Charles; Abrahamson, Donald W.; Stewart, James J.; and Niksa, Marilyn J., 4,687,553, Cl. 204-16.000.

Stewart, James P., to Lockheed Missiles & Space Company, Inc. Coupling mechanism. 4,679,961, 7-14-87, Cl. 403-341.000.

Stewart, Jeffrey: *See*—
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Stewart, Jim L., to General Battery Corporation. Battery formation charging apparatus. 4,684,872, 8-4-87, Cl. 320-45.000.

Stewart, Jimmy L., to General Battery Corporation. High voltage test confirmation apparatus. 4,684,887, 8-4-87, Cl. 324-158.00R.

Stewart, John; and Brown, George M., to Twiflex Limited. Brakepad assembly for disc brake. 4,697,671, 10-6-87, Cl. 188-72.900.

Stewart, John: *See*—
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Stewart, John B., Jr.; Szalvay, Laszlo; de Brunier, Bernard; and Simpson, Jeffrey W., to Raychem Corporation. Annular tube-like driver. 4,637,436, 1-20-87, Cl. 138-89.000.

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Stewart, John M., to Sanitation Equipment Limited. Flush toilet. 4,710,988, 12-8-87, Cl. 4-438.000.

Stewart, Kenneth W., Sr., to United Technologies Electro Systems, Inc. Brush holder for dynamoelectric machines. 4,694,214, 9-15-87, Cl. 310-239.000.

Stewart, Lawrence C.: *See*—
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Stewart, Leo J. Locking device for articles such as sailboards. 4,680,949, 7-21-87, Cl. 70-14.000.

Stewart, Melvin T.: *See*—
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Stewart, Michael E., to Adac Laboratories, Inc. Apparatus and method for enhancement of video images. 4,636,850, 1-13-87, Cl. 358-111.000.

Stewart, Otis J. Ice free tip up system. 4,662,099, 5-5-87, Cl. 43-17.000.

Stewart, Peter A. E.; Hawkesworth, Michael R.; and Witcomb, Roger C., to Rolls-Royce plc. Analyzing fluid flows within hollow bodies. 4,697,079, 9-29-87, Cl. 250-303.000.

Stewart, Peter M.: *See*—
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Stewart, Raymond. Front wheel centering mechanism for wheelchairs. 4,709,939, 12-1-87, Cl. 280-242.0WC.

Stewart, Robert B. Process for forming composite molds to be used in the manufacture of composite parts. 4,671,837, 6-9-87, Cl. 156-245.000.

Stewart, Robert C., Jr., to International Fuel Cells Corporation. Carbon-graphite component for an electrochemical cell and method for making the component. 4,670,300, 6-2-87, Cl. 427-115.000.

Stewart, Robert E., to Litton Systems, Inc. Integrated force balanced accelerometer. 4,679,434, 7-14-87, Cl. 73-517.00B.

Stewart, Robert L.: *See*—
Berg, Ronald W.; and Stewart, Robert L., 4,685,909, Cl. 604-360.000.

Stewart, Robert T., to Wink Corporation. Vehicle mirror. 4,674,849, 6-23-87, Cl. 350-612.000.

Stewart, Rodger L., to Cobe Laboratories, Inc. Medical heat exchange. 4,656,004, 4-7-87, Cl. 422-46.000.

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Stewart, Ross W., to Arabian American Oil Company. Core slabbing method. 4,674,473, 6-23-87, Cl. 125-1.000.

Stewart, Russell M.; and Gomes, Rodney A. Reusable remailable envelope. 4,715,531, 12-29-87, Cl. 229-73.000.

Stewart Stamping Corp.: *See*—
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Stewart, Stephen P., to Stewart Industries, Inc. Collapsible cabinet. 4,703,981, 11-3-87, Cl. 312-258.000.

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Stewart, Victor M., to Industrial Research Development, Inc. Roofing system. 4,680,909, 7-21-87, Cl. 52-409.000.

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Doyle, Michael P.; Forte, Francis J.; and Galkowski, Edward, 4,707,880, Cl. 16-38.000.
Ferrari, Francis E., 4,658,127, Cl. 250-202.000.
Shew, Jerry D., 4,664,298, Cl. 222-287.000.
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Stewart, Wayne A. Hydraulic pump jack. 4,712,374, 12-15-87, Cl. 60-369.000.

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Stewart, Wilber C.; and Vieland, Leon J., to RCA Corporation. Electron beam injection structure for flat panel display devices. 4,672,262, 6-9-87, Cl. 313-422.000.

Stewart, William J., to Plessey Overseas Limited. Optical receivers. 4,648,134, 3-3-87, Cl. 455-619.000.

Stewart, William J.: *See*—
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Stewart, William R., to Wm. R. Stewart & Sons (Hacklemakers) Limited. Opening roller assemblies for open end spinning machines. 4,679,390, 7-14-87, Cl. 57-408.000.

Stewart, William S.; and Hottovy, John D., to Phillips Petroleum Company. Control of a vinyl acetate process. 4,654,801, 3-31-87, Cl. 364-500.000.

Stewart, William S.; Hottovy, John D.; and Blaesi, John E., to Phillips Petroleum Company. Automatic control of a multiple-effect evaporator. 4,676,870, 6-30-87, Cl. 159-17.100.

Stewart, William S., to Phillips Petroleum Company. Method and device for controlling a delayed coker system. 4,698,313, 10-6-87, Cl. 436-55.000.

Stewart, William S.: *See*—
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Stewert, Robert. Combination gold bag and insert. 4,703,851, 11-3-87, Cl. 206-315.600.

Steyaert, Gordon C.: *See*—
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Lattuada, Sergio, 4,657,224, Cl. 251-63.500.

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Stibolt, Paul E. Security window cover. 4,663,885, 5-12-87, Cl. 49-67.000.

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Stich, Frederick A., to Siemens Energy & Automation, Inc. Brushless exciter for controlling excitation of a synchronous machine. 4,659,973, 4-21-87, Cl. 318-718.000.

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Stich, Roger L.; and Neal, William D. Automatic transmission adapter kit. 4,641,547, 2-10-87, Cl. 74-606.00R.

Sticher, Charles K., to Nordson Corporation. Bridge circuit system. 4,639,611, 1-27-87, Cl. 307-117.000.

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Sticht, Walter. Apparatus for handling a structural part. 4,666,367, 5-19-87, Cl. 414-751.000.

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J.; Budwey, Michael J.; and Nolan, James M., to Sequoia Inc. Memory back-up system. 4,654,819, 3-31-87, Cl. 0.
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Stillman, Theodore. Jojoba oil compositions and methods. 4,664,914, 5-12-87, Cl. 424-195.100.
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Stipanuk, James J., to Motorola, Inc. Circuit for writing bipolar memory cells. 4,703,458, 10-27-87, Cl. 365-189.000.
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Stipanuk, John M.; Walse, Alan S.; and Regnier, Kent E., to Molex Incorporated. Method of making a multiconductor electrical connector arrangement. 4,665,614, 5-19-87, Cl. 29-884.000.
Stipanuk, John M.; and Yun, John M., to Molex Incorporated. Connection for flexible apparatus. 4,714,435, 12-22-87, Cl. 439-496.000.
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Stirling, David I., to Celanese Corporation. Process for culturing methylophilus methylotrophus. 4,652,527, 3-24-87, Cl. 435-253.000.
Stirling Engine Associates: *See*—
White, Maurice A.; and Emigh, Stuart G., 4,671,064, Cl. 60-517.000.
Stirling, Hugh G.: *See*—
Cope, Richard E.; and Stirling, Hugh G., 4,687,065, Cl. 172-167.000.
Stirling, Irene: *See*—
Clarke, Brian P.; Harbridge, John B.; and Stirling, Irene, 4,652,560, Cl. 514-210.000.
Stirling, John L.: *See*—
Bennetto, Hugh P.; Delaney, Gerard M.; Mason, Jeremy R.; Stirling, John L.; Roller, Sibel; Thurston, Christopher F.; and White, Donald R., Jr., 4,652,501, Cl. 429-2.000.
Stirling, Marie: *See*—
Howard, John; and Stirling, Marie, 4,713,185, Cl. 252-8.554.
Stirling Thermal Motors, Inc.: *See*—
Meijer, Roelf J., 4,669,736, Cl. 277-27.000.
Meijer, Roelf J.; and Ziph, Benjamin, 4,703,796, Cl. 165-104.260.
Meijer, Roelf J., 4,707,990, Cl. 60-641.150.
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Stirling, William. Round bale handler. 4,648,769, 3-10-87, Cl. 414-24.600.
Stirnkorb, Willi: *See*—
Rebmann, Manfred; Rothermel, Otto; and Stirnkorb, Willi, 4,693,052, Cl. 53-167.000.
Stirtz, Ronald H. Fishing flasher. 4,679,347, 7-14-87, Cl. 43-43.100.
Stirtz, Ronald H. Sack and rope assembly. 4,688,674, 8-25-87, Cl. 206-388.000.
Stitt, Robert M.: *See*—
Burt, Rodney T.; and Stitt, Robert M., 4,636,916, Cl. 361-386.000.
Stitz, Albert, to Barmag AG. Yarn traversing guide. 4,685,637, 8-11-87, Cl. 242-157.00R.
Stitz, Olaf: *See*—
Kuhn, Heinrich; Stitz, Olaf; and Wimmer, Karl, 4,716,572, Cl. 373-88.000.
Stitz, Robert W.: *See*—
Bunch, Matthew L.; Price, J. B.; and Stitz, Robert W., 4,640,224, Cl. 118-725.000.
Stiver, C. Edward: *See*—
Brooks, Thomas W.; Masseth, David A.; Malecka, Joseph R.; Stiver, C. Edward; Pearson, Charles S.; and Fox, James D., 4,703,643, Cl. 72-402.000.
STIWA-Fertigungstechnik Sticht Gesellschaft m.b.H.: *See*—
Sticht, Walter, 4,651,868, Cl. 198-540.000.
Sticht, Walter, 4,712,484, Cl. 104-165.000.
Stix, Thomas H.: *See*—
Chance, Morrell S.; Jardin, Stephen C.; Stix, Thomas H.; Grimm, Ray C., deceased; Manickam, Janardhan; and Okabayashi, Michio, 4,654,184, Cl. 376-133.000.
Stix, Wolfgang; Nouvertne, Werner; and Buding, Hartmuth, to Bayer Aktiengesellschaft. Thermoplastic moulding compositions. 4,652,607, 3-24-87, Cl. 525-67.000.
Stix, Wolfgang; and Bottenbruch, Ludwig, to Bayer Aktiengesellschaft. Aromatic polyester with dimethylmaleimide end groups. 4,663,424, 5-5-87, Cl. 528-182.000.
Stix, Wolfgang: *See*—
Nielinger, Werner; Stix, Wolfgang; and Bottenbruch, Ludwig, 4,645,822, Cl. 528-336.000.
Stjern, Daryl C.; and Wirt, Thomas M., to Sundstrand Corporation. Low Q body-dithered laser gyro assembly. 4,653,918, 3-31-87, Cl. 356-350.000.
Stjern, Daryl C.; and Daly, Frank, to Sundstrand Optical Technologies, Inc. Laser gyro with dithered mirrors and current dither. 4,653,919, 3-31-87, Cl. 356-350.000.
Stjernberg, Klas G.: *See*—
Schachner, Herbert; Tippmann, Heinz; Lux, Benno; Stjernberg, Klas G.; and Thelin, Anders G., 4,707,384, Cl. 427-249.000.
Stjernberg, Maria H.: *See*—
Lofgren, Barbro U.; Luciani, Luciano; Seppanen, Hanneli; Stjernberg, Maria H.; and Iiskola, Eero I., 4,673,661, Cl. 502-111.000.
Stoakes, Richard L. Structural assemblies such as curtain walling. 4,707,959, 11-24-87, Cl. 52-235.000.
Stobb Inc.: *See*—
Neumann, Irving H.; Stobb, Walter J.; Silva, Robert M.; and Thumm, Klaus A., 4,636,139, Cl. 414-786.000.
Stobb, Walter J., 4,645,194, Cl. 271-203.000.
Stobb, Walter J., 4,650,174, Cl. 270-53.000.
Stobb, Walter J., 4,658,715, Cl. 100-2.000.
Stobb, Walter J., 4,715,758, Cl. 412-8.000.
Stobb, Walter J., to Stobb Inc. Method and apparatus for creating a gap in a sheet stream. 4,645,194, 2-24-87, Cl. 271-203.000.
Stobb, Walter J., to Stobb Inc. Method and system for routing a signature for stitching. 4,650,174, 3-17-87, Cl. 270-53.000.
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Stobby, William G., to Dow Chemical Company, The. Rigid polyurethane modified polyisocyanurate containing fly ash as an inorganic filler. 4,661,533, 4-28-87, Cl. 521-122.000.
Stobe, Richard: *See*—
Bonfilio, Paul F.; and Stobe, Richard, 4,676,545, Cl. 296-197.000.
Stober, Herbert; and Brencher, Norbert, to Burron Medical Inc. Implantable catheter means. 4,704,103, 11-3-87, Cl. 604-175.000.
Stocco, Peter J.: *See*—
Mishler, Ralph E.; and Stocco, Peter J., 4,679,017, Cl. 335-164.000.
Stock, Gunter: *See*—
Aufdembrinke, Bernd; Dorow, Rainer; Horowski, Reinhard; Suchy, Irmgard; Schroeder, Gertrud; Wachtel, Helmut; Kehr, Wolfgang; and Stock, Gunter, 4,711,891, Cl. 514-313.000.
Stock, Helmut, to International Business Machines Corporation. Drive mechanism for a magnetic head carriage assembly. 4,675,764, 6-23-87, Cl. 360-106.000.
Stock, Horst: *See*—
Lossl, Gunter; Zauhar, Helmut; and Stock, Horst, 4,633,847, Cl. 125-13.00R.
Stock, James H. Clean box. 4,683,761, 8-4-87, Cl. 73-864.340.
Stock, Norman A.: *See*—
Malashenko, Alexander; and Stock, Norman A., 4,648,943, Cl. 162-300.000.
Stockburger, Hans-Dieter. Pocket air velocity gauge. 4,713,972, 12-22-87, Cl. 73-861.760.
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Stockburger, Hermann; and Bauer, Siegfried. Method for the detection of authenticity in a data carrier and apparatus for applying said method. 4,650,979, 3-17-87, Cl. 235-455.000.
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Stockdale, Trevor J., to U.S. Philips Corporation. Atomic absorption spectrophotometer and method of analysis by atomic absorption spectrophotometry. 4,634,277, 1-6-87, Cl. 356-315.000.
Stockdale, Trevor J.; and Morley, Peter, to U.S. Philips Corporation. Atomic resonance line source lamps and spectrophotometers for use with such lamps. 4,645,343, 2-24-87, Cl. 356-326.000.
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Stockel, Richard F.; and Dumas, Phillip E. Use of selenium-containing compounds for negating the toxic effects of gold compounds used in the treatment of rheumatoid arthritis, and a novel selenium-containing gold compound and use thereof as an anti-rheumatoid arthritis medicine. 4,680,286, 7-14-87, Cl. 514-23.000.
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Stocker, Elizabeth M.; and Knight, Eugene U., III. Method and means for teaching a set of sound symbols through the unique device of phonetic phenomena. 4,713,008, 12-15-87, Cl. 434-167.000.

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Volfgang; Reitberger, Rudolf; and Stocker, Erwin, 03, Cl. 409-235.000.

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obert C.; Kontoghiorghes, George; Silver, Jack; and am, Michael A., 4,650,793, Cl. 514-188.000.

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aul A.: *See*—
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Wayne A., to W.A.S. Vending, Inc. Donation box. 9-87, Cl. 232-1.00D.

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Klaus; and Stockmann, Helmut, 4,651,933, Cl. 241-34.000.

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Edward F., to Babcock & Wilcox Company, The. Con- for ribbon cable connector. 4,687,276, 8-18-87, Cl.

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ohn T.; and Stockton, Gerald W., 4,686,365, Cl. .000.

omas R., to Ford Motor Company. Non-lubricated drive for a continually variable transmission. 4,713,041, 474-28.000.

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Frank B.; and Stoddart, David E., 4,676,096, Cl. 00.

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H., to Boeing Company, The. Stowage bin latch assem-2, 1-20-87, Cl. 292-129.000.

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Egbert; Knorr, Andreas; Stoepel, Kurt; and Heise, ,675,329, Cl. 514-356.000.

Stoerk, Peter, to Siemens Aktiengesellschaft. Device for holding two light waveguides connected to one another by a splice. 4,688,886, 8-25-87, Cl. 350-96.210.

Stoffel, Erwin: *See*—
Auel, Theodor; Mueller-Starke, Hans; and Stoffel, Erwin, 4,704,211, Cl. 252-1.500.

Stoffel, James C.; and Tandon, Jagdish C., to Xerox Corporation. Method and apparatus for fabricating full width scanning arrays. 4,690,391, 9-1-87, Cl. 269-21.000.

Stoffel, James C.; and Tandon, Jagdish C., to Xerox Corporation. Method and apparatus for fabricating full width scanning arrays. 4,712,018, 12-8-87, Cl. 250-578.000.

Stoffel, Karl-Heinz: *See*—
Welz, Martin; Czauderna, Bernhard; and Stoffel, Karl-Heinz, 4,692,373, Cl. 428-285.000.

Stoffel Seals Corporation: *See*—
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Stoffers, Brian L., to Honeywell Information Systems Inc. Equal nine apparatus for supporting absolute value subtracts on decimal operands of unequal length. 4,638,450, 1-20-87, Cl. 364-715.000.

Stoffers, Brian L.: *See*—
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Stofko, John, to Carbocol Inc. Method and composition for bonding solid lignocellulosic material. 4,654,259, 3-31-87, Cl. 428-326.000.

Stofleth, David F.; and Muehlbauer, James H., to George Koch Sons, Inc. Spray booth with climate regulation system. 4,687,686, 8-18-87, Cl. 427-421.000.

Stog, Jochen: *See*—
Stog, Wilhelm; and Stog, Jochen, 4,647,342, Cl. 202-242.000.
Stog, Wilhelm; and Stog, Jochen, 4,647,343, Cl. 202-248.000.

Stog, Wilhelm; and Stog, Jochen, to WSW-Planungs-GmbH. Lightweight flexible coke oven door with pressure-balancing lever system. 4,647,342, 3-3-87, Cl. 202-242.000.

Stog, Wilhelm; and Stog, Jochen, to WSW-Planungs-GmbH. Self sealing coke oven door of lightweight construction. 4,647,343, 3-3-87, Cl. 202-248.000.

Stogryn, Eugene L.; Ho, W.S. Winston; and Montagna, Angelo A., to Exxon Research and Engineering Company. Process for preparing di-amino-polyalkenyl ethers. 4,665,195, 5-12-87, Cl. 548-523.000.

Stogryn, Eugene L., to Exxon Research and Engineering Company. Severely sterically hindered secondary aminoether alcohols. 4,665,234, 5-12-87, Cl. 564-483.000.

Stohr, Albert, to Gebr. Hennig GmbH. Cabin-like cover. 4,700,517, 10-20-87, Cl. 52-241.000.

Stohr, Benno, to PKL Papier-und Kunststoff-Werke Linnich GmbH. Package having welded seam closure with hot melt thickening. 4,712,690, 12-15-87, Cl. 206-628.000.

Stohr, Gunter: *See*—
Kratel, Gunter; Stohr, Gunter; and Schreiner, Franz, 4,636,416, Cl. 428-69.000.

Stohr, Hans-Arnold: *See*—
Fuhge, Peter; Heimburger, Norbert; Stohr, Hans-Arnold; and Burk, Wolfgang, 4,650,678, Cl. 424-101.000.

Stohr, Roland: *See*—
Elsasser, Michael; and Stohr, Roland, 4,686,464, Cl. 324-158.00P.

Stohs, Norbert E., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Recovery of stored data from mutilated tape data blocks. 4,704,641, 11-3-87, Cl. 360-53.000.

Stoia, Harry J. Door lock mounting system. 4,708,007, 11-24-87, Cl. 70-451.000.

Stoian, Anatol; Panaitescu, Nicolita; and Tuliu, Marioara, to Institutul de Cercetari Si Poriectari Pentru Petrol Si Gaze. Process of organic material extraction from bituminous sands or oil bearing sands. 4,702,487, 10-27-87, Cl. 208-390.000.

Stoiber, Henry E.: *See*—
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Stoichkova, Nedyalka M.: *See*—
Jetcheva, Dimka I.; Todorov, Todor M.; and Stoichkova, Nedyalka M., 4,655,955, Cl. 252-105.000.

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Gaydarov, Emanuil S.; Russev, Koytcho Y.; Paltchin, Vassil A.; and Stoilov, Ivan T., 4,698,462, Cl. 191-59.100.

Stojanovski, Stojan. Tool holder with plurality of cutting inserts. 4,640,159, 2-3-87, Cl. 82-36.00A.

Stok, Filippus L.: *See*—
Geerts, Wilhelmus H. M.; Stok, Filippus L.; and Tienkamp, Engbert, 4,709,260, Cl. 358-51.000.

Stokar, Saul: *See*—
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Stokbroekx, Raymond A.: *See*—
Janssens, Frans E.; Van Offenwert, Theophilus T. J. M.; Stokbroekx, Raymond A.; and Boar, Bernard R., 4,689,330, Cl. 514-321.000.

Stoker, Jeffrey: *See*—
McPherson, Hugh; and Stoker, Jeffrey, 4,714,873, Cl. 324-57.00N.

Stokes, Anthony D., to University of Sydney. Electrical circuit breaking device. 4,700,259, 10-13-87, Cl. 361-103.000.

Stokes, Bruce F., to Baramac Corporation Limited. Ground anchors. 4,702,047, 10-27-87, Cl. 52-156.000.

Stokes, Dale R. Load sensing alarm condition monitor. 4,697,173, 9-29-87, Cl. 340-684.000.

Stokes, Darryll. Mounting ring assembly for a toilet bowl. 4,648,139, 3-10-87, Cl. 4-252.00R.

Stokes, David H.: *See –*
Cooper-Hart, Michael A.; Emmons, Lawrence D.; Mackley, James S.; and Stokes, David H., 4,715,059, Cl. 379-53.000.

Stokes, Geoffrey F.: *See—*
Leese, Leonard; Nicholas, Donald C.; Smith, Gordon C. R.; and Stokes, Geoffrey F., 4,652,409, Cl. 264-22.000.

Stokes, James P.: *See—*
Bhattacharya, Sabyasachi; Bloch, Aaron N.; and Stokes, James P., 4,636,737, Cl. 329-110.000.

Stokes, Jeffrey A., to IRT Corporation. Anti-parallax scintillator system for use with penetrating ionizing radiation. 4,636,644, 1-13-87, Cl. 250-368.000.

Stokes, John H.; Clark, John I.; Morris, James D.; and Ward, Steven M., to Energy Optics Inc. Nonvolatile realtime clock calendar module. 4,701,858, 10-20-87, Cl. 364-483.000.

Stokes, Kenneth B., to Medtronic, Inc. Single-pass A-V lead. 4,643,201, 2-17-87, Cl. 128-786.000.

Stokes, Kenneth B., to Medtronic, Inc. Body implantable lead. 4,711,251, 12-8-87, Cl. 128-784.000.

Stokes, Olen L., Jr.: *See—*
Antonelli, Douglas C.; Branscomb, Patricia M.; Broockman, Eric C.; Dickson, LeRoy D.; Koppel, Caralee P.; Ossowski, Richard; and Stokes, Olen L., Jr., 4,713,785, Cl. 364-569.000.

Stokes, Robert B.; Yen, Kuo-Hsiung; Lau, Kei-Fung; Kagiwada, Reynold S.; and Delaney, Michael J., to TRW Inc. Isotropic acoustic wave substrate. 4,707,631, 11-17-87, Cl. 310-313.00A.

Stokes, Robert B.: *See—*
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Stokes, Robert L.; and Myrick, Paul, to Gearhart Industries, Inc. Debris removal and gauge ring device and method. 4,703,804, 11-3-87, Cl. 166-311.000.

Stokes, Vijay K., to General Electric Company. Method for making inverted molded commutators. 4,663,834, 5-12-87, Cl. 29-597.000.

Stokes, Vijay K., to General Electric Company. Reinforced rotor assembly and method of making same. 4,683,393, 7-28-87, Cl. 310-156.000.

Stokes, Vijay K., to General Electric Company. Improved disc rotor assembly. 4,704,555, 11-3-87, Cl. 310-268.000.

Stokes, William H., to Seneca Wire and Manufacturing Company. Container/pallet for annular packages of strand material. 4,664,260, 5-12-87, Cl. 206-386.000.

Stokley, Charles O.: *See—*
Sanford, Lawrence; Stokley, Charles O.; and Turner, Edwin C., 4,648,448, Cl. 166-191.000.

Stokoe, Philip T.; and Boulais, Dennis R., to Alco Electronic Products, Inc. Dual in-line package slide switch with detent assembly. 4,687,887, 8-18-87, Cl. 200-16.00F.

Stokoe, Ridley, to Aerial Access Equipment Limited. Access equipment. 4,643,273, 2-17-87, Cl. 182-2.000.

Stokowski, Stanley E.: *See—*
Cook, Lee M.; and Stokowski, Stanley E., 4,661,284, Cl. 252-301.40P.

Stol, Israel; and Appleman, Robert H., to Westinghouse Electric Corp. Corrosion resistant steam generator and method of making same. 4,639,992, 2-3-87, Cl. 29-157.00R.

Stol, Israel, to Westinghouse Electric Corp. Shielding apparatus for metal processing operations. 4,642,445, 2-10-87, Cl. 219-121.0FS.

Stol, Israel, to Westinghouse Electric Corp. Torch for preheating a continuously fed welding wire. 4,667,083, 5-19-87, Cl. 219-136.000.

Stolar, Inc.: *See—*
Stolarczyk, Larry G., 4,691,166, Cl. 324-334.000.

Stolarczyk, Larry G., to Stolar, Inc. Electromagnetic instruments for imaging structure in geologic formations. 4,691,166, 9-1-87, Cl. 324-334.000.

Stolarz, Edward, to Homa Locks, Inc. Luggage handle. 4,658,467, 4-21-87, Cl. 16-126.000.

Stolarz, Zofia: *See—*
Dabrowski, Roman; Dziaduszek, Jerzy; Szulc, Jaroslaw; Witkiewicz, Zygfryd; Stolarz, Zofia; Kenig, Krystyna; and Adamska, Gabriela, 4,676,924, Cl. 252-299.610.

Stolcenberg, Dennis A.; Ketelhut, Raymond R.; and Forrest, Richard A. Can caddy device, and methods of constructing and utilizing same. 4,651,873, 3-24-87, Cl. 206-142.000.

Stoldt, Stephen H.; and Walsh, Reed H., to Lubrizol Corporation, The. Fuel additive comprising a metal compound and an oxime and fuel compositions containing same. 4,673,412, 6-16-87, Cl. 44-68.000.

Stole, Kjell A.; Lovsland, Arnstien; and Havig, Egil, to Norton Company. Screening device and process. 4,678,560, 7-7-87, Cl. 209-23.000.

Stolen, Rogers H.: *See—*
Howard, Richard E.; Liao, Paul F.; and Stolen, Rogers H., 4,643,752, Cl. 65-3.150.
Howard, Richard E.; Liao, Paul F.; and Stolen, Rogers H., 4,645,523, Cl. 65-3.110.
Mollenauer, Linn F.; and Stolen, Rogers H., 4,699,452, Cl. 350-96.160.

Stoler, Arie, to Israel Aircraft Industries Ltd. Taut wire fence system and sensor therefor. 4,683,356, 7-28-87, Cl. 200-61.930.

Stolfa, Frank: *See—*
Urban, Peter; and Stolfa, Frank, 4,647,367, Cl. 208-48.0AA.

Stolfa, Kazimir. Metal cutter. 4,682,416, 7-28-87, Cl. 30-228.000.

Stolk, Richard D. Hot air balloon kite. 4,641,797, 2-10-87, Cl. 244-153.00R.

Stolk, Richard D.: *See—*
Birum, Gail H.; Mathis, Thomas C.; and Stolk, Richard D., 4,639,480, Cl. 524-104.000.

Stoll, Andre : *See—*
Berthold, Richard; Louis, William J.; and Stoll, Andre , 4,661,513, Cl. 514-459.000.

Stoll, Donald H.: *See—*
Simonson, Dale E.; and Stoll, Donald H., 4,712,157, Cl. 361-357.000.

Stoll, Donald L., to Richwood Industries, Inc. Conveyor belt scraper blade assembly with contoured surface. 4,696,388, 9-29-87, Cl. 198-493.000.

Stoll, Erich P., to International Business Machines Corporation. Scanning acoustic microscope. 4,646,573, 3-3-87, Cl. 73-606.000.

Stoll, Ilse, to International Coal Refining Company. Sequential elution process. 4,634,680, 1-6-87, Cl. 436-178.000.

Stoll, Karl-Heinz, to Senkingwerk GmbH. Counterflow washing machine. 4,694,665, 9-22-87, Cl. 68-27.000.

Stoll, Kurt. Solenoid valve. 4,637,433, 1-20-87, Cl. 137-625.650.

Stoll, Kurt. Clamping element with a short stroke. 4,643,408, 2-17-87, Cl. 269-22.000.

Stoll, Kurt. Conveying device. 4,645,182, 2-24-87, Cl. 254-264.000.

Stoll, Kurt. Actuator cylinder. 4,646,623, 3-3-87, Cl. 92-13.500.

Stoll, Kurt. Slide-like drive means. 4,669,365, 6-2-87, Cl. 92-165.0PR.

Stoll, Kurt. Limit sensing device. 4,679,452, 7-14-87, Cl. 74-110.000.

Stoll, Kurt. Guide housing for the linearly moving output element of a cylinder actuator. 4,682,535, 7-28-87, Cl. 92-165.0PR.

Stoll, Kurt; and Hihn, Gerhard. Short stroke actuator. 4,687,189, 8-18-87, Cl. 269-22.000.

Stoll, Kurt. Fluid power connector fittings. 4,687,235, 8-18-87, Cl. 285-281.000.

Stoll, Kurt. Fluid power actuator. 4,699,042, 10-13-87, Cl. 91-44.000.

Stoll, Kurt; and Hihn, Gerhard. Mounting board for fluid power components. 4,699,402, 10-13-87, Cl. 285-26.000.

Stoll, Kurt; and Hihn, Gerhard. Piston and cylinder unit. 4,700,616, 10-20-87, Cl. 92-118.000.

Stoll, Kurt. Prismatic connection member for the supply of valves or the like. 4,709,945, 12-1-87, Cl. 285-4.000.

Stoll, Kurt. Piston and cylinder unit. 4,715,264, 12-29-87, Cl. 91-16.000.

Stoll, Kurt: *See—*
Ruedle, Manfred; and Stoll, Kurt, 4,646,785, Cl. 137-625.640.

Stoll, Mark S., to Liberty Diversified Industries, Inc. Utility tote container. 4,682,727, 7-28-87, Cl. 229-915.000.

Stoll, Mark S., to Liberty Diversified Industries, Inc. Produce transport and cooling container and method for using same. 4,709,852, 12-1-87, Cl. 229-119.000.

Stoll, Milton. Methods and apparatus for producing coherent or monolithic elements. 4,650,540, 3-17-87, Cl. 156-618.000.

Stoll, Robert W.: *See—*
Wilson, Ronald H.; Stoll, Robert W.; and Calacone, Michael A., 4,653,428, Cl. 118-725.000.

Stoll, Thomas; Goller, Ernst; Kazmaier, Guenther; and Schmid, Franz. Device for setting the adjustable traverse of the yarn feeders of a flat knitting machine. 4,658,603, 4-21-87, Cl. 66-126.00R.

Stoll, William M.: *See—*
Newman, Harold C.; and Stoll, William M., 4,666,797, Cl. 428-681.000.

Stoll, Wolfgang; and Guldner, Ralf, to Alkem GmbH. Container, especially for radioactive substances. 4,672,213, 6-9-87, Cl. 250-506.100.

Stollar, B. David: *See—*
Borel, Yves; Stollar, B. David; Borel, Helina; and Gallop, Paul M., 4,650,675, Cl. 424-85.000.

Stolle, Joseph W.: *See—*
Davis, Albert P., Jr.; Ramsey, Mark S.; and Stolle, Joseph W., 4,655,300, Cl. 175-39.000.

Stolle, Ralph J.; and Beck, Lee R., to Stolle Research & Development Corporation. Method for treating disorders of the vascular and pulmonary systems. 4,636,384, 1-12-87, Cl. 424-87.000.

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Stolle, Ralph J.; and Beck, Lee R., 4,636,384, Cl. 424-87.000.

Stoller, Herbert I.: *See—*
Kraus, Charles J.; Stoller, Herbert I.; and Wu, Leon L., 4,688,151, Cl. 361-405.000.

Stoller, Kenneth P.: *See—*
Taff, Barry E.; and Stoller, Kenneth P., 4,643,172, Cl. 128-16.000.

Stoller, Leo D. Racquet handle. 4,659,080, 4-21-87, Cl. 273-75.000.

Stoller, Milton, to Spectrascan, Inc. Diaphanoscopy method. 4,651,743, 3-24-87, Cl. 128-664.000.

Stoller, Milton: *See—*
Bristow, Donald L.; and Stoller, Milton, 4,651,744, Cl. 128-660.000.

Stolov, Adi: *See—*
Stolov, Michael; Stolov, Sara; Stolov, Adi; and Stolov-Hecht, Ilana, 4,696,347, Cl. 169-46.000.

Stolov-Hecht, Ilana: *See—*
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Stolov, Michael; Stolov, Sara; Stolov, Adi; and Stolov-Hecht, Ilana. Arrangement for propulsion liquids over long distances. 4,696,347, 9-29-87, Cl. 169-46.000.

Stolov, Sara: *See—*
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Stolowitz, Mark L., to Analytichem International, Inc. Method of sequencing peptides. 4,665,037, 5-12-87, Cl. 436-89.000.

ard; and Adler, Theo; to General Motors Corporation. er with inertia lock. 4,664,442, 5-12-87, Cl. 297-216.000.
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rgen: *See—*
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nald D., to General Motors Corporation. Failsafe drive- gine controller. 4,640,248, 2-3-87, Cl. 423-399.000.
nald D., to General Motors Corporation. Electro- pressure regulating valve. 4,676,273, 6-30-87, Cl.
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Gustavsson, Bo; and Gustavsson, Kerstin. Locking device be opened by means of a pressurized fluid and a pressu- ozzle therefor. 4,635,978, 1-13-87, Cl. 292-144.000.
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ary L. Portable golf ball washer. 4,701,968, 10-27-87, Cl.
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nn, to MATO Maschinen- und Metallwarenfabrik Kurt mbH & Co. KG. Grease gun and method for making such .409, 6-30-87, Cl. 222-256.000.
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and Spath, Dieter, to Keuro Maschinenbau Gesellschaft nkter. Haftung & Co. Kommanditgesellschaft. Stack nd handler in the form of a crane. 4,708,566, 11-24-87, Cl.
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imited: *See—*
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hare, Ernst, Roberta D.; and Stone, Anne J., 4,654,311, 175.000.
ne E.: *See—*
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r Corporation: *See—*
l F., 4,711,702, Cl. 162-123.000.
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W.: *See—*
Rudolf; and Stone, Corbett W., 4,652,163, Cl. .000.
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obert E.; Harder, Isaac E.; and Stone, Earl L., III, 4, Cl. 428-408.000.
W. Dispensing receptacle for drafting equipment. 1-87, Cl. 211-41.000.
P.: *See—*
hren A.; Stone, Edward P.; and Mosher, Oren G., , Cl. 177-25.000.
k A.; and Maron, Robert J., to Teleco Oilfield Services g coupling for drill collars and method of manufacture ,773, 6-23-87, Cl. 285-48.000.
k L., to Intelligent Medicine, Inc. Infusion device having valving apparatus. 4,666,429, 5-19-87, Cl. 604-83.000.
P. System for measuring liquid level in a pressurized 025, 2-17-87, Cl. 73-302.000.
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C.; Boggs, Steven A.; and Braun, Jean-Marie. Surge able. 4,687,882, 8-18-87, Cl. 174-102.0SC.
Stone, Henry W., to Westinghouse Electric Corp. Kinematic parameter identification for robotic manipulators. 4,698,572, 10-6-87, Cl. 318-568.000.
Stone, J. P.: *See—*
Ewen, A. T. E.; and Stone, J. P., 4,684,428, Cl. 156-257.000.
Stone, Joseph J.; and Sutter, Leroy V., Jr., to Videojet Systems International, Inc. Laser marking apparatus. 4,652,722, 3-24-87, Cl. 219-121.0L,S.
Stone, Judson F., to Air Physics Corporation. Electronic generator for air purification. 4,672,504, 6-9-87, Cl. 361-231.000.
Stone, Leslie S.: *See—*
Booth, William L.; and Stone, Leslie S., 4,653,954, Cl. 404-6.000.
Stone, Richard H., to Leyland Vehicles Limited. Vehicle spring suspension arrangement. 4,637,627, 1-20-87, Cl. 280-686.000.
Stone, Roger E.: *See—*
Bowers, Thomas E.; Frey, Alan E.; Kerr, Howard A.; Russell, Larry A.; and Stone, Roger E., 4,704,716, Cl. 370-58.000.
Stone, Roger R.: *See—*
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Stone, Samuel L., Jr.: *See—*
Reynolds, David P.; Shepard, John D.; and Stone, Samuel L., Jr., 4,673,207, Cl. 296-39.00R.
Stone, Stanley A., to Varian Associates, Inc.; and Scientific Systems, Inc. Autosampler. 4,713,974, 12-22-87, Cl. 73-864.230.
Stone, Thomas R.; and Graham, Randolph H., to Quantum Corporation. Optical encoder having controllable lead-lag phase trim sensitivity. 4,647,769, 3-3-87, Cl. 250-231.0SE.
Stone, Thomas R., to Plus Development Corporation. Optical encoder which use a rectangular photodetector array. 4,661,696, 4-28-87, Cl. 250-231.0SE.
Stone, Thomas R.: *See—*
Hahn, Peter S.; Stone, Thomas R.; Moon, William G.; and Harrison, Joel N., 4,703,176, Cl. 250-231.0SE.
Moon, William G.; Westwood, Donald C.; and Stone, Thomas R., 4,712,146, Cl. 360-97.000.
Stone, Thomas W., to Universal Electric Company. Bearing system for fractional horsepower electric motors. 4,641,979, 2-10-87, Cl. 384-146.000.
Stone, Thomas W., to Universal Electric Company. Electric motor bearing. 4,716,327, 12-29-87, Cl. 310-90.000.
Stone, Walter H., to Parker-Hannifin Corporation. Semipermeable baffle fuel filter. 4,668,393, 5-26-87, Cl. 210-304.000.
Stone, Walter H.: *See—*
Church, John F.; and Stone, Walter H., 4,692,245, Cl. 210-232.000.
Stone, Wayne B., Jr., to Wood Manufacturing Co., Inc. Injection molded, self sealing top assembly for open mouth coffee pots. 4,638,929, 1-27-87, Cl. 222-456.000.
Stone, Wayne B., Jr., to Wood Manufacturing Co., Inc. Float activated siphon for automatic drip coffee maker. 4,713,253, 12-15-87, Cl. 426-433.000.
Stone, Wayne B., Jr., to Wood Manufacturing Co., Inc. Injection molded, self sealing top assembly for open mouth coffee pots. 4,714,180, 12-22-87, Cl. 222-456.000.
Stone & Webster Engineering Corp.: *See—*
Garabedian, George; and DeLuca, Robert A., 4,644,906, Cl. 122-32.000.
Gartside, Robert J.; Johnson, Axel R.; Ross, Joseph L.; and Duncan, Dennis A., 4,663,019, Cl. 208-50.000.
Stone & Webster Engineering Limited: *See—*
Huntley, Allan R., 4,661,127, Cl. 55-174.000.
Stone, William M.: *See—*
Colegrove, Russell K.; and Stone, William M., 4,677,273, Cl. 219-121.0EC.
Stone, William S.; and Dittrich, Thomas M., to Sheffer Collet Company. Support for a chuck. 4,647,051, 3-3-87, Cl. 279-1.00D.
Stone, William S.; and Dittrich, Thomas M., to Sheffer Collet Company. Project plate system. 4,662,043, 5-5-87, Cl. 29-33.00P.
Stonecliffe, David; and Barlow, Peter, to Davy McKee (Sheffield) Limited. Horizontal continuous casting apparatus. 4,653,570, 3-31-87, Cl. 164-440.000.
Stoneham, Jeffrey R., to Eastman Kodak Company. Apparatus and method for identifying a film cartridge. 4,647,170, 3-3-87, Cl. 354-275.000.
Stoneleigh Trust, The: *See—*
Massa, Frank; and Massa, Donald P., 4,700,333, Cl. 367-157.000.
Stoneman, Everett L., to Rohr Industries, Inc. Jaw alignment pin for a stretch jaw chuck. 4,712,831, 12-15-87, Cl. 279-123.000.
Stoner, Arthur L., to Wilbur Curtis Company, Inc. Coffee maker with plastic decanter and low temperature warming plate. 4,715,269, 12-29-87, Cl. 99-279.000.
Stoner, Donald R.; Senger, Robert D.; Planck, Norman A.; and Hall, William G., to Westinghouse Electric Corp. Controllable vehicle for inspecting limited access areas. 4,703,817, 11-3-87, Cl. 180-8.100.
Stoner, Eugene M., to ARES, Inc. Breech/receiver assembly for automatic cannons. 4,690,032, 9-1-87, Cl. 89-43.010.
Stoner, William F. Collapsible support system. 4,688,658, 8-25-87, Cl. 182-153.000.
Stones, David I.: *See—*
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Stonesifer, Gerald M.; and Harkey, Charles E. Caulking gun with means to prevent rotation of compound cartridge during use and to provide positive pressure release. 4,706,853, 11-17-87, Cl. 222-391.000.

Stoney, William E.: *See—*
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Stonier, James W.; Murray, Thomas L., Jr.; Goss, Gary J.; and Holtey, Thomas O., to Honeywell Information Systems Inc. Speeding up the response time of the direct multiplex control transfer facility. 4,665,481, 5-12-87, Cl. 364-200.000.
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Stonier, Russ W. Foldable box for hanging files. 4,693,387, 9-15-87, Cl. 220-6.000.
Stoody, Richard R., Jr., to Chrysler Motors Corporation. Recirculating valve lash adjuster. 4,644,913, 2-24-87, Cl. 123-90.460.
Stookey, Donald J., to Monsanto Company. Fluid separation module. 4,671,875, 6-9-87, Cl. 210-321.100.
Stookey, Donald J., to Monsanto Company. Fluid separation membranes. 4,687,578, 8-18-87, Cl. 210-321.100.
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Stopher, James: *See—*
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Fricker, Robert, 4,658,994, Cl. 222-607.000.
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Schwyter, Anton; and Amsler, Heinrich, 4,659,118, Cl. 285-55.000.
Waltenspuhl, Rolf, 4,708,327, Cl. 266-220.000.
Stoppazzini, Benito, to E.M.M. Emiliana Macchine Maglieria S.R.L. Device for controlling the vertical tension of the knitted fabric in automatic flat knitting machines. 4,660,392, 4-28-87, Cl. 66-149.00R.
Stoppazzini, Benito, to E.M.M. Emiliana Macchine Maglieria S.R.L. Device for the selection of the sinker and needle assemblies of an automatic flat knitting machine. 4,667,488, 5-26-87, Cl. 66-75.100.
Stoppazzini, Benito, to E.M.M. Emiliana Macchine Maglieria S.R.L. Device for regulating the stitch density of automatic flat knitting machines. 4,686,838, 8-18-87, Cl. 66-71.000.
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Stoppel, Doyle E.: *See—*
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Stopper, Howard R., to Drackett Company, The. Preparation of non-flammable aerosol propellant microemulsion system. 4,655,959, 4-7-87, Cl. 252-305.000.
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Baur, Karl G.; Diehl, Volker; Stops, Peter; Hellbach, Hans; and Brunner, Erwin, 4,681,946, Cl. 546-317.000.
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Santen, Sven; Bernhard, Ragnar; and Malmeblad, Sven-Erik, 4,692,209, Cl. 162-30.100.
Storace, Anthony, to Technalytics, Inc. Surgical stapler. 4,669,647, 6-2-87, Cl. 227-19.000.
Storace, Anthony; and Yannella, Albert V., to AMF, Inc. Thread measurement tool. 4,672,750, 6-16-87, Cl. 33-199.00R.
Storace, Anthony, to Technalytics, Inc. Surgical stapler. 4,691,853, 9-8-87, Cl. 227-19.000.
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Storage Technology Corporation: *See—*
Brunelle, Philip E.; and Southerland, Bob R., 4,697,232, Cl. 364-200.000.
Haugland, Steve E., 4,635,142, Cl. 360-46.000.
Hopta, Daniel F., 4,680,480, Cl. 307-270.000.
O'Keeffe, Michael J.; Graba, James M.; and Noyes, George I., 4,697,167, Cl. 340-347.0DD.
Owens, John C., 4,635,870, Cl. 242-68.300.
Shrinkle, Louis J., 4,634,896, Cl. 307-351.000.
Thornley, Richard, 4,639,808, Cl. 360-121.000.
Todd, Christian A.; and Hart, William D., 4,682,993, Cl. 55-314.000.
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Abed, Majeed, 4,677,605, Cl. 369-45.000.
Baer, James W., 4,686,662, Cl. 369-44.000.
Noyes, George I., Jr.; and Shah, Prabodh L., 4,688,204, Cl. 369-59.000.
Wilson, Scott D., 4,643,538, Cl. 350-421.000.
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Storandt, Ralf; and Storz-Irion, Regina, to GEZE GmbH. Apparatus for controlling the closing sequence of double doors. 4,663,887, 5-12-87, Cl. 49-369.000.
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Maier, Helmut; Storandt, Ralf; Guenther, Heinz, deceased; Guenther, Renate, legal representative; and Guenther, Sabine, legal representative, 4,640,051, Cl. 49-348.000.
Mettenleiter, Karl; Storandt, Ralf; and Scheck, Georg, 4,663,880, Cl. 16-51.000.
Storbakken, George D. Vapor lock control and fuel economizer. 4,679,539, 7-14-87, Cl. 123-557.000.
Storch, Helmut, to Grammer Sitzsysteme GmbH. Apparatus for producing seat cover cushions. 4,664,612, 5-12-87, Cl. 425-120.000.
Storch, Leonard; and Hotto, Robert, to Leonard Storch Enterprises, Inc. Width card. 4,642,624, 2-10-87, Cl. 340-735.000.
Storck, Eckhard; and Stockmann, Michael, to Siemens Aktiengesellschaft. Method and apparatus for illuminating a Bragg cell. 4,655,501, 4-7-87, Cl. 356-300.000.
Stord Bartz A/S: *See—*
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Solberg, Per; and Gronhaug, Jan, 4,660,628, Cl. 165-92.000.
Storer, Richard: *See—*
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Storey, David C.; and Petschulat, David J. Manual string lock with adjustable locking action. 4,667,561, 5-26-87, Cl. 84-314.00N.
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Storey, Michael J., to Cambridge Consultants Limited. Digital-to-analogue converter including calibrated current sources. 4,647,907, 3-3-87, Cl. 340-347.0DA.
Storey, Robson F.; Dantiki, Sudhakar; Hogue, Melissa L.; and Bayer, Arthur C., to First Chemical Corporation; and University of Southern Mississippi, The. Method of curing unsaturated polyester resins at low temperatures. 4,666,978, 5-19-87, Cl. 525.35.000.
Storey, William R.; Wheat, William R.; Smith, Stuart B.; and Ainker, Milind B., to Exxon Chemical Patents Inc. Catalyst injection for Ziegler polymerization. 4,698,211, 10-6-87, Cl. 422-135.000.
Storimans, Franciscus J. A., to GPD Canada Inc. Feed conveyor for machine for forming leads of electronic components. 4,650,066, 3-17-87, Cl. 198-459.000.
Storimans, Franciscus J. A., to GPD Canada Inc. Electronic component spacer mechanism. 4,700,753, 10-20-87, Cl. 140-147.000.
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Stork, Karl: *See—*
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Oppenlaender, Knut; Stork, Karl; Hovemann, Friedrich; and Schwartz, Erich, 4,675,025, Cl. 44-51.000.
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Stork, Kurt: *See—*
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Stork PMT B.V.: *See—*
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Stormax International A/S: *See—*
Bech, Marcus C.; and Koster, Ole, 4,694,637, Cl. 53-448.000.
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Stoughton, John W., to RCA Corporation. Cathode-ray tube arc-over protection for digital data in television display apparatus. 4,654,717, 3-31-87, Cl. 358-243.000.
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Crivella, Charles; and Stouse, Lee A., 4,650,109, Cl. 228-194.000.
Stout, Christopher B. *See—*
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Stout, Daniel M.; Ellis, Michael W.; Terwilleger, Arthur R.; and Shankle, Robert D., Jr., to Whitmire Research Laboratories, Inc.; and Alfa-Laval, Inc. Programmable wide area insecticide dispensing system and method. 4,671,435, 6-9-87, Cl. 222-646.000.
Stout, Daniel M. *See—*
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Stout, Virginia F. *See—*
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Stout, W. Douglas, to Brigham Young University. Human powered land vehicle. 4,705,284, 11-10-87, Cl. 280-242.0WC.
Stoutamire, Donald W., and Tieman, Charles H. Preparation of optically-active cyanomethyl esters. 4,681,947, 7-21-87, Cl. 544-370.000.
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Nozaki, Tom, Jr.; Sweet, Richard G.; Stovel, Richard T.; and Parks, David R., 4,667,830, Cl. 209-3.100.
Stover, David R., to USG Industries, Inc. Top grip lock nut assembly. 4,666,355, 5-19-87, Cl. 411-85.000.
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Corey, Paul F.; Skjold, A. Christopher; Pendergrass, James H.; and Stover, Lonnie, 4,657,855, Cl. 435-19.000.
Stowe, Gerald T. *See—*
Lyon, John B.; and Stowe, Gerald T., 4,675,450, Cl. 568-360.000.
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Stowe, John H., to Curtis-Dyna Products Corporation. Multi-layer poultry vaccinator. 4,643,354, 2-17-87, Cl. 239-1.000.
Stowe, Lawrence R.; and Strubhar, Malcolm K., to Mobil Oil Corporation. Hydraulic fracturing and gravel packing method employing special sand control technique. 4,685,519, 8-11-87, Cl. 166-278.000.
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Stowell, Larry J.: *See*—
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Stoy, Erich: *See*—
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Stoyanov, Peyo T.: *See*—
Balevski, Angel T.; Nikolov, Ivan D.; Momchilov, Emil N.; Bachvarov, Rumen D.; Ostrovski, Vassil N.; Nikolchov, Alexander S.; Stoyanov, Peyo T.; Petrov, Valentin G.; and Lyubenov, Toshko K., 4,671,342, Cl. 164-458.000.

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Barnes, Anthony J.; and Stracey, Russell J., 4,544,626, Cl. 29-421.00R.

Strachan, Alan F.: *See*—
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Strachan, John S., to Synrinx Innovations Limited. Touch sensitive cathode ray tube. 4,689,614, 8-25-87, Cl. 340-706.000.

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Strachan, William S.; and Brodie, Alastair C., to Glaxo Group Limited. Manufacture of antibiotics. 4,670,552, 6-2-87, Cl. 540-225.000.

Strack, Hans; and Kleinschmit, Peter, to Degussa Aktiengesellschaft. Magnesium-silicate bound zeolite granulates of the type of zeolite A, process for their production and use. 4,668,648, 5-26-87, Cl. 502-64.000.

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Strader, Don S., to Goodyear Tire & Rubber Company, The. Belt testing device. 4,679,443, 7-14-87, Cl. 73-826.000.

Strader, James W. Fishing rod. 4,653,215, 3-31-87, Cl. 43-18.100.

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Straehle, Wolfgang; Marx, Matthias; and Schuett, Uwe, to BASF Aktiengesellschaft. Process for the preparation of high-temperature-resistant dense or cellular polyurethane elastomers. 4,698,410, 10-6-87, Cl. 528-76.000.

Strafner, Michael: *See*—
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Strahan, John C.: *See*—
Honkanen, George P.; Strahan, John C.; and Lichtman, Philip R., 4,655,752, Cl. 604-256.000.

Strahan, Wilson L.: *See*—
Wightman, William D.; and Strahan, Wilson L., 4,712,621, Cl. 166-382.000.

Strahl, Antal: *See*—
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Strahl, Thomas L., to Machine Technology, Inc. Thin film deposition apparatus and method. 4,664,935, 5-12-87, Cl. 427-38.000.

Strahle, Michael R. Handicap trap seat. 4,662,298, 5-5-87, Cl. 114-61.000.

Strain Measurement Devices Limited: *See*—
Johnson, Harvey R., 4,680,858, Cl. 29-610.0SG.

Strait, Paul M.: *See*—
Hunt, Christopher C.; and Strait, Paul M., 4,656,898, Cl. 82-4.00R.

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Hamazaki, Takeru; Strattz, John F., III; and Yano, Shintaro, 4,652,233, Cl. 431-202.000.

Straka, Alfred: *See*—
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Straka, Robert; Ross, Robert E.; and Vanderveer, Fred, to Nabisco Brands, Inc. Apparatus for extruding dough as used in producing crisp breads. 4,659,303, 4-21-87, Cl. 425-376.00R.

Straka, Robert; Ross, Edgar; and Vanderveer, Fred, to Nabisco Brands, Inc. Process for extruding dough as used in producing crisp breads. 4,698,228, 10-6-87, Cl. 426-446.000.

Strakova, Jana: *See*—
Cerny, Antonin; Krepelka, Jiri; Rezabek, Karel; Fruhaufova, Maria; Pesak, Milan; Sevcik, Bohumil; Kral, Josef; Borovicka, Antonin; Bilek, Petr; Picmausova, Dagmar; Stuchlik, Josef; Picha, Josef; and Strakova, Jana, 4,692,452, Cl. 514-288.000.

Stramke, Siegfried. Process and apparatus for the surface treatment of workpieces by glow discharge. 4,645,981, 2-24-87, Cl. 315-227.00R.

Strampach, Norman A.; Cerchio, Vincent L., Jr.; and Schmidt, William W., to Procter & Gamble Company, The. Oxidation resistant tissue for dry laundry actives and bleach compatible products. 4,652,390, 3-24-87, Cl. 252-92.000.

Strampfer, John: *See*—
Kalmus, Leslie P.; Trojan, Donald R.; Mott, Bradley; and Strampfer, John, 4,674,044, Cl. 364-408.000.

Stranahan, Michael: *See*—
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Lew, Hyok S.; and Stranahan, Michael, 4,711,057, Cl. 52-81.000.

Stranco, Inc.: *See*—
Brazelton, Carl L., 4,642,222, Cl. 422-111.000.
Brazelton, Carl L.; and Litherland, Troy C., 4,688,945, Cl. 366-156.000.

Stranczek, Norman J.: *See*—
Kowalyshen, Henry W.; Opfer, John C.; and Stranczek, Norman J., 4,668,848, Cl. 200-248.000.

Strand, David, to Energy Conversion Devices, Inc. Data storage device having novel barrier players encapsulating the data storage medium. 4,660,175, 4-21-87, Cl. 365-113.000.

Strand, David; and Vala, John, to Energy Conversion Devices, Inc. Method and apparatus for controlling thickness of a layer of an optical data storage device by measuring an optical property of the layer. 4,676,646, 6-30-87, Cl. 356-381.000.

Strand, Jerome E., to Minnesota Mining and Manufacturing Company. Biomedical electrode. 4,694,835, 9-22-87, Cl. 128-640.000.

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Strand, Rolf E.; and Persson, Per-Lennart, to Tour & Andersson AB. Temperature control arrangement in heating systems. 4,667,875, 5-26-87, Cl. 236-46.00R.

Strand, Steinar, to Tandberg Data A/S. Method and arrangement for controlling the motion of a magnetic head in a magnetic tape recorder. 4,675,759, 6-23-87, Cl. 360-75.000.

Strand, Theodore L., to Liquidometer Corporation. Safety breakaway electrical connector construction. 4,707,046, 11-17-87, Cl. 439-314.000.

Strandell, Ingemar H.; and Horlin, Nils A., to Santrade Limited. Sensor for measurement of the deflection and/or torsion of an oblong machine element. 4,668,087, 5-26-87, Cl. 356-138.000.

Strandjord, Andrew J.: *See*—
Coyne, Brenton S.; Strandjord, Andrew J.; Spence, Mark W.; Willis, Reid S.; Bredeweg, Robert A.; and Stevens, Timothy S., 4,715,217, Cl. 73-61.10C.

Stranford, Gerald T.: *See*—
Lester, George R.; Gonczy, Stephen T.; Welsh, Lawrence B.; and Stranford, Gerald T., 4,701,316, Cl. 423-344.000.

Strange, Andrew: *See*—
Beck, Willi K.; and Strange, Andrew, 4,649,238, Cl. 200-16.00C.
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Strange, Ian A.: *See*—
Titcombe, Ian R. A.; and Strange, Ian A., 4,707,566, Cl. 174-78.000.

Strange, Mark D. Wash tool for stimulating oil wells. 4,671,355, 6-9-87, Cl. 166-171.000.

Strange, Patrick E., to Kimball International, Inc. Cabinet having door braking assembly. 4,657,318, 4-14-87, Cl. 312-297.000.

Strange, Thomas F.; and Carino, John W., to North American Philips Corporation. Pressure sensitive fault interrupter for a multi section AC capacitor. 4,679,827, 1-27-87, Cl. 361-272.000.

Strange, Thomas F.; and Carino, John W., to North American Philips Corporation. Pressure sensitive fault current interrupter for multiple capacitor device. 4,639,828, 1-27-87, Cl. 361-272.000.

Strange, Thomas F.; and Carino, John W., to North American Philips Corporation. Pressure sensitive fault interrupter. 4,661,876, 4-28-87, Cl. 361-15.000.

Strangfeld, Reiner, to Georg Rost & Sohne Armaturenfabrik GmbH & Co. KG. Pressurized liquid flushing valve arrangement with a shut-off sleeve. 4,662,395, 5-5-87, Cl. 137-614.190.

Strangfeld, Reiner, to Georg Rost & Sohne Armaturenfabrik GmbH & Co. KG. Self-closing valve fitting. 4,676,477, 6-30-87, Cl. 251-15.00.

Strangman, Thomas E.; and Keiser, Robert J., to United States of America, Air Force. Interstitially protected oxidation resistant carbon-carbon composite. 4,668,579, 5-26-87, Cl. 428-367.000.

Stransky, Le Roy V. Process of manufacturing an improved electrical connector and product thereof. 4,708,668, 11-24-87, Cl. 439-825.00.

Stransky, Werner: *See*—
Mengel, Rudolf; Schroder, Ludwig; Stransky, Werner; Luders, Gerbert; and Lust, Sigmund, 4,655,824, Cl. 71-94.000.

Strapex AG: *See*—
Kagi, Bruno, 4,711,071, Cl. 53-589.000.

Straschewski, Helmut: *See*—
Ewest, Eckhart; Mertens, Gustav; and Straschewski, Helmut, 4,635,570, Cl. 110-237.000.

Strasser, Hans-Erwin: *See*—
Boedecker, Kay; Scheurl, Robert; and Strasser, Hans-Erwin, 4,655,690, Cl. 417-53.000.

Strasser, Ludwig: *See*—
Matschinsky, Wolfgang; Sautter, Wolfgang; Strasser, Ludwig; and Mueller, Rudolf, 4,671,532, Cl. 280-701.000.
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Mahlon D., 4,640,374, Cl. 175-393.000.
Mahlon D., 4,662,896, Cl. 51-293.000.
Mahlon D., 4,705,123, Cl. 175-410.000.
Lawrence W., 4,658,918, Cl. 175-423.000.

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and Simon, Hans-Dieter, to H. Wohlenberg KG GmbH & ng machine. 4,700,453, 10-20-87, Cl. 29-568.000.

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rcy H., 4,671,302, Cl. 132-9.000.
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Arnfred R. Flute. 4,664,011, 5-12-87, Cl. 84-384.000.

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Wayne P. to Dynapert-HTC Corporation. Continuous se processing machine. 4,658,513, 4-21-87, Cl. 34-78.000.

ndrew: *See*—
Eric; Poppe, Martin C.; and Stratton, Andrew, 4,680,590, 42-457.000.
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yd L., to Harris Corporation. Video signal clamping with lse width variation with noise. 4,707,741, 11-17-87, Cl. 00.

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Milton L.; Holmes, Ann; and Stratton, Charlotte D., 762, Cl. 514-303.000.

hn F., to Lucas Industries public limited company. Fuel 4,662,179, 5-5-87, Cl. 60-737.000.

hn F., to Lucas Industries public limited company. Combus- pment. 4,689,961, 9-1-87, Cl. 60-748.000.

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chard D.: *See*—
David A.; and Stratton, Richard D., 4,678,532, Cl. 14.000.

mputer, Inc.: *See*—
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r, Richard M., 4,691,666, Cl. 122-33.000.

e K.: *See*—
lenda; Straub, Dale K.; and Piwonka, Peter, 4,702,736, Cl. 80.000.

mian, to Sulzer Brothers Limited. Nuclear reactor installa- 6,077, 8-11-87, Cl. 376-230.000.

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nanuel. Pipe coupling. 4,664,422, 5-12-87, Cl. 285-112.000.

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Wolfgang; Straub, Joachim; and Landgraf, Gunter, 512, Cl. 219-10.55E.

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R.: *See*—
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C., to Bayer Aktiengesellschaft. Vaccines containing fat vitamins, zinc compounds and selenium compounds. 10-6-87, Cl. 424-89.000.

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ggert; Hedrich, Dieter; and Straub, Peter, 4,653,569, Cl. 7.000.

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mar: *See*—
Jens; Norenberg, Hagen; Bergmann, Friedhelm; Stiller, ted; Schlemmermeyer, Horst; Schmidt, Wilfried; Straube, f; and Wolter, Helmut, 4,712,434, Cl. 73-864.630.

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Franz-Ulrich; Muller, Willi; Schacht, Hans; and Straubel, 4,683,055, Cl. 210-120.000.

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Straumann, Danielle: *See*—
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Straus, Albert E. Roll edge protector. 4,677,728, 7-7-87, Cl. 29-415.000.

Straus, Jozef: *See*—
Sinclair, William J.; Kovats, Tibor F. I.; and Straus, Jozef, 4,695,125, Cl. 350-96.200.

Strausak AG: *See*—
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Strausburg, Larry D., to Monarch Marking Systems, Inc. Hand-held tag attacher, method of attaching tags and fasteners. 4,673,120, 6-16-87, Cl. 227-67.000.

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Strausburg, Larry D.: *See*—
Hamisch, Paul H., Jr.; Makley, James A.; Pabodie, Robert M.; and Strausburg, Larry D., 4,690,317, Cl. 227-67.000.

Strausheim, Myron A., to American Desk Manufacturing Company. Wall panel system. 4,674,240, 6-23-87, Cl. 52-36.000.

Strauss, Bernhard, to Carl-Zeiss-Stiftung, Heidenheim/Brenz. Apparatus for the protection of a movable elongate machine part. 4,713,892, 12-22-87, Cl. 33-559.000.

Strauss, Eric C. Automatic protracting and locking hypodermic needle guard. 4,664,654, 5-12-87, Cl. 604-198.000.

Strauss, Gary J.: *See*—
Loomis, Bernard; Baiera, Vincent A.; Caldwell, Bennie J.; and Strauss, Gary J., 4,655,721, Cl. 446-219.000.

Strauss, H. William: *See*—
Moore, Richard H.; Strauss, H. William; and Alpert, Nathaniel M., 4,633,881, Cl. 128-659.000.

Strauss, Hans: *See*—
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Strauss, Herbert. Wheelchair parking brake. 4,691,933, 9-8-87, Cl. 280-289.0WC.

Strauss, Howard W., to Du Pont de Nemours, E. I., and Company. Preparation of aluminum ionomers of carboxylic acid copolymers. 4,716,202, 12-29-87, Cl. 525-370.000.

Strauss, John W. High pressure revolving sewer cleaning nozzle. 4,677,997, 7-7-87, Cl. 134-167.00C.

Strauss, Leopold: *See*—
Hayduchok, Leon; and Strauss, Leopold, 4,681,471, Cl. 401-34.000.

Strauss, Manfred: *See*—
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Strauss, Paul, to Zenith Electronics Corporation. Tensed mask color cathode ray tube and mask support frame therefore. 4,656,388, 4-7-87, Cl. 313-402.000.

Strauss, Paul, to Zenith Electronics Corporation. Tensed mask color cathode ray tube and mask support frame therefor. 4,686,415, 8-11-87, Cl. 313-402.000.

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Adler, Robert; and Strauss, Paul, 4,692,660, Cl. 313-477.00R.
Dougherty, Lawrence W.; and Strauss, Paul, 4,686,416, Cl. 313-407.000.
Palac, Kazimir; Prazak, Charles J., III; and Strauss, Paul, 4,652,791, Cl. 313-402.000.

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Strautz, Michael G.: *See*—
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Straver, William A. Animal trap. 4,682,441, 7-28-87, Cl. 43-61.000.

Straw, Alan; and Shields, Stewart, to Colgate-Palmolive Company. Aerosol antiperspirant composition. 4,695,451, 9-22-87, Cl. 424-47.000.

Strawczynski, Leo: *See*—
Ellis, John G.; Townsend, Bruce L.; and Strawczynski, Leo, 4,648,108, Cl. 379-202.000.

Strayham, Stephen G. Apparatus for establishing angles of objects. 4,693,011, 9-15-87, Cl. 33-451.000.

Straza, George C. P.: *See*—
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Straza, George T.; and Straza, George C. P., 4,681,322, Cl. 273-173.000.

Straza, George T.; and Straza, George C. P. Golf putter. 4,679,792, 7-14-87, Cl. 273-78.000.

Straza, George T.; and Straza, George C. P. Golf club head. 4,681,322, 7-21-87, Cl. 273-173.000.

Strazis, Steven L., to Arendt, Chris, a part interest. Bicycle wheel cover assembly. 4,682,821, 7-28-87, Cl. 301-37.00R.

Straznickas, Donald A.: *See*—
Glennon, Timothy F.; Olson, Raymond N.; and Straznickas, Donald A., 4,641,080, Cl. 322-49.000.

Strazzolini, Paolo: *See*—
Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, 4,645,827, Cl. 530-322.000.
Malabarba, Adriano; Strazzolini, Paolo; Borghi, Angelo; Cavalleri, Bruno; and Coronelli, Carolina, 4,650,855, Cl. 530-322.000.
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Streamlight, Inc.: *See*—
Penney, C. Bradford; and Sharrah, Raymond L., 4,640,258, Cl. 124-24.00R.

Streat, Michael; and Belfer-Canterman, Sofia, to National Research Development Corporation. Immobilized extractants. 4,711,863, 12-8-87, Cl. 502-5.000.

Streater, Richard W.: *See*—
Este, Grantley O.; Suthers, Mark S.; Streater, Richard W.; and MacLaurin, Blair K., 4,684,841, Cl. 310-313.00B.
Suthers, Mark S.; Este, Grantley O.; Streater, Richard W.; and MacLaurin, Blair K., 4,642,507, Cl. 310-313.00B.

Streb, Karl-Peter: *See*—
Oeschsle, Manfred; Szieslo, Uwe; Streb, Karl-Peter; and Simm, Wolfgang, 4,711,627, Cl. 431-30.000.

Strebkov, Dmitry S.: *See*—
Afian, Viktor V.; Vartanian, Albert V.; Martirosian, Ruben G.; Strebkov, Dmitry S.; and Ryabikov, Stanislav V., 4,682,841, Cl. 350-3.700.
Afian, Viktor V.; Vartanian, Albert V.; Martirosian, Ruben G.; Ryabikov, Stanislav V.; Strebkov, Dmitry S.; and Tveryanovich, Eduard V., 4,691,994, Cl. 350-320.000.

Streck, Roland: *See*—
Zerpner, Dieter; Streck, Roland; and Haag, Horst G., 4,681,961, Cl. 556-428.000.

Streckenbach, Wulf-Christian: *See*—
Sander, Hans-Dieter; and Streckenbach, Wulf-Christian, 4,649,551, Cl. 375-81.000.

Strecker, Claus: *See*—
Klein, Wolf-Dieter; Feuchthofen, Alfons; Strecker, Claus; and Bonisch, Ulrich, 4,666,589, Cl. 208-413.000.

Strecker, Dennis. Blow dryer holding device. 4,696,447, 9-29-87, Cl. 248-206.300.

Strecker, Dennis C. Tainter gate system. 4,648,742, 3-10-87, Cl. 405-100.000.

Street, Graham S. B., to Brightad Limited. Method and apparatus for producing stereoscopic images. 4,641,178, 2-3-87, Cl. 358-3.000.

Street, Graham S. B. Stereoscopic recording method and apparatus, and production method and apparatus. 4,668,063, 5-26-87, Cl. 354-112.000.

Street, Graham S. B. Method and apparatus for use in producing autostereoscopic images. 4,674,853, 6-23-87, Cl. 354-112.000.

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Street, Norman E.: *See*—
Ares, Roland A.; Jones, Robert A.; and Street, Norman E., 4,711,094, Cl. 62-90.000.

Street, Ramon L.: *See*—
Engle, Vencil D.; Hafer, Cameron H.; Hughes, Frank M.; Steger, Donald J.; Stewart, Edward G.; Street, Ramon L.; and Thompson, John A., 4,650,351, Cl. 400-120.000.

Street, Robert L., to Cumulus Fibres, Inc. Vacuum bonded non-woven batt. 4,668,562, 5-26-87, Cl. 428-218.000.

Street, Robert W., to General Tire, Inc. Machine for guiding and marking plystock. 4,694,580, 9-22-87, Cl. 33-32.600.

Street Specialty Products Inc.: *See*—
Streett, James T., 4,652,030, Cl. 292-336.300.
Streett, James T., 4,677,708, Cl. 16-334.000.

Street, Thomas R., Jr., to Ford Motor Company. Automotive suspension strut with increased stroke. 4,635,766, 1-13-87, Cl. 188-317.000.

Streeter, Edward C. Wide angle control of permanent magnet rotors. 4,684,911, 8-4-87, Cl. 335-288.000.

Streeter, Robert K., Jr.: *See*—
DuBois, R. Clark; and Streeter, Robert K., Jr., 4,674,735, Cl. 271-10.000.

Streetman, William E.: *See*—
Pickering, Trevor P.; Paton, George A.; Gusack, James A.; Smith, Thomas E.; Sanders, John H.; Nichols, Sterling M.; Pursoo, Johnson L.; Lindsay, John W.; and Streetman, William E., 4,704,311, Cl. 427-393.100.

Streets, Roger L.; Rabito, Thomas G.; and Peresie, David N., to Ashland Oil, Inc. Method of adhering roofing materials. 4,640,730, 2-3-87, Cl. 156-334.000.

Streett, James T., to Street Specialty Products Inc. Repair spring for vehicle door latch/handle assembly. 4,652,030, 3-24-87, Cl. 292-336.300.

Streett, James T., to Street Specialty Products Inc. Replacement spring for a corvette door hinge. 4,677,708, 7-7-87, Cl. 16-334.000.

Strehl, Herbert, to Siemens Aktiengesellschaft. Method and circuit arrangement for correction of image distortion. 4,647,972, 3-3-87, Cl. 358-160.000.

Streibig, Kurt; and Buelke, Gerhart, to Inventio AG. Cover arrangement for covering the balustrade sill of a transportation apparatus, such as an escalator or moving walkway. 4,646,907, 3-3-87, Cl. 198-335.000.

Streicher, Rolf: *See*—
Lach, Dietrich; Streicher, Rolf; and Strickler, Rainer, 4,675,021, Cl. 8-94.240.

Streif, Janet M.: *See*—
Wallace, Theodore C.; and Streif, Janet M., 4,676,936, Cl. 264-40.100.

Streifer, William: *See*—
Burnham, Robert D.; Paoli, Thomas L.; Scifres, Donald R.; and Streifer, William, 4,694,459, Cl. 372-45.000.

Strein, Klaus: *See*—
Holck, Jens-Peter; Mertens, Alfred; Kampe, Wolfgang; Muller-Beckmann, Bernd; Sponer, Gisbert; and Strein, Klaus, 4,666,921, Cl. 514-338.000.
Mertens, Alfred; Holck, Jens-Peter; Berger, Herbert; Muller-Beckmann, Bernd; Strein, Klaus; and Roesch, Egon, 4,695,567, Cl. 514-253.000.
Mertens, Alfred; Holck, Jens-Peter; Kampe, Wolfgang; Muller-Beckmann, Bernd; Strein, Klaus; and Schaumann, Wolfgang, 4,710,510, Cl. 514-394.000.

Streinz, Wolfgang: *See*—
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Streissle, Gert: *See*—
Lockhoff, Oswald; Kruger, Bernd-Wieland; Stadler, Peter; Paessens, Arnold; Streissle, Gert; Taylor, Peter; Zeiler, Hans-Joachim; and Metzger, Karl-Georg, 4,686,208, Cl. 514-42.000.
Paessens, Arnold; Streissle, Gert; Plempel, Manfred; Buchel, Karl H.; Elbe, Hans-Ludwig; Holmwood, Graham; Kraatz, Udo; and Regel, Erik, 4,668,660, Cl. 514-383.000.

Streit, Kenneth F., to Geerpres, Inc. Bail mounting structure. 4,643,325, 2-17-87, Cl. 220-91.000.

Streit, Peter, to U.S. Philips Corporation. Liquid crystal display device. 4,684,939, 8-4-87, Cl. 340-784.000.

Streit, Werner; Witt, Linda; Angstmann, Heinz-Dieter; Blanckenhorn, Rolf; and Fikentscher, Rolf, to BASF Aktiengesellschaft. Desizing cotton and cotton-containing fabrics. 4,654,043, 3-31-87, Cl. 8-189.000.

Streitmatter, Ronald W.: *See*—
Ellegood, Norman W.; Fritsche, Joel L.; Groezinger, John J.; Ikeda, Keichi; and Streitmatter, Ronald W., 4,692,196, Cl. 156-187.000.

Strelecki, Paul R.: *See*—
Boozer, James M.; Mayer, Robert W.; Kumasaka, Alan J.; Strelecki, Paul R.; and Lindlau, Paul F., 4,682,153, Cl. 340-507.000.

Streller, Ilse: *See*—
Schromm, Kurt; Mentrup, Anton; Renth, Ernst-Otto; Fagner, Armin; and Streller, Ilse, 4,647,563, Cl. 514-234.000.

Strelow, John L., to Wheatley Pump and Valve, Inc. Check valve actuator. 4,669,500, 6-2-87, Cl. 137-514.000.

Stremler, Jean-Pierre E., to Mors. Device for locking and releasing objects intended for public use, such as luggage carts. 4,641,739, 2-10-87, Cl. 194-253.000.

Stremmel, Gerd: *See*—
Czempik, Klaus; and Stremmel, Gerd, 4,639,326, Cl. 252-91.000.

Strength, Tech, Inc.: *See*—
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Strenk, Lawrence M.: *See*—
Kramer, David M.; Compton, Russell A.; Strenk, Lawrence M.; and Murdoch, James B., 4,695,800, Cl. 324-309.000.

Strentz, Daniel, to Superba S.A. Capacitive cell for continuous measurement of the linear mass of textile products. 4,710,701, 12-1-87, Cl. 324-61.00P.

Strepparola, Ezio; and Re, Alberto, to Ausimont S.p.A. Fluorinated polyacrylates and polyacrylamides having a controlled cross-linking degree, and process for preparing same. 4,681,925, 7-21-87, Cl. 526-246.000.

Strepparola, Ezio: *See*—
Gavezotti, Piero; and Strepparola, Ezio, 4,681,693, Cl. 252-49.900.

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Stress Steel Co., Inc.: *See*—
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Stress-Tek, Inc.: *See*—
Reichow, Keith W., 4,666,003, Cl. 177-136.000.

Stresswall International, Inc.: *See*—
Babcock, John W.; and Wormus, Ronald K., 4,655,646, Cl. 405-286.000.
Babcock, John W.; Wormus, Ronald K.; and Nelson, John D., 4,668,129, Cl. 405-284.000.

Stretanski, Joseph A.; and Loffelman, Frank F., to American Cyanamid Company. Stabilized titanium dioxide-pigmented polyolefin compositions. 4,670,491, 6-2-87, Cl. 524-120.000.

Stretton, Reginald J.: *See*—
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s D.: *See—*
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Hans: *See—*
owski, Manfred; and Streubel, Hans, 4,635,702, Cl. 418.000.
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bH: *See—*
, Hans P., 4,715,822, Cl. 439-74.000.
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Charles D.: *See—*
ell, Frank W.; and Stricker, Charles D., 4,683,175, Cl. 677.000.
David J.: *See—*
nan, Walter; and Stricker, David J., 4,690,656, Cl. 446-95.000.
David K.: *See—*
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Robert F.: *See—*
, Howard A.; and Stricker, Robert F., 4,655,077, Cl. 6.000.
, Benjamin W. Solar apparatus. 4,700,690, 10-20-87, Cl. 000.
, Brian R.; and Edlin, George R., to United States of Amer- ny. Two dimensional non-field perturbing, diode detected, gapped, high sensitivity, B-dot electromagnetic field probes. 9, 3-3-87, Cl. 324-95.000.
, Brian R.; and Edlin, George R., to United States of Amer- y. Automated calibration technique for non-field perturbing ally small) electromagnetic field sensors. 4,673,870, 6-16-87, 74.000.
, Danny K.: *See—*
ll, Donald K.; and Strickland, Danny K., 4,709,396, Cl. 5.000.
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, Jim O. Cover assembly for spray cans. 4,664,300, 5-12-87, 402.130.
, Mark D.: *See—*
l, Charles J.; and Strickland, Mark D., 4,636,429, Cl. 288.000.
, Richard C. Fishing sinker. 4,649,663, 3-17-87, Cl. 43-44.900.
, Robert M., to Hughes Tool Company - USA. Earth boring air system access. 4,646,858, 3-3-87, Cl. 175-337.000.
, Thomas W.: *See—*
Por-Hsiung; and Strickland, Thomas W., 4,667,016, Cl. 397.000.
Gary R.: *See—*
Chu W.; Garrou, Philip E.; and Strickler, Gary R., 4,709,115, 585-643.000.
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James E.; and Strickler, Jeffrey E. Container and follow plate e loadable with viscous material dispensers having receiving two different sizes. 4,684,042, 8-4-87, Cl. 222-327.000.
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ler, James E.; and Strickler, Jeffrey E., 4,684,042, Cl. 327.000.
Rainer: *See—*
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Roger A.: *See—*
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Roger D., to Elliott Turbomachinery Co., Inc. Turbine oper- ing gear engager. 4,643,637, 2-17-87, Cl. 415-122.00R.
Roger D., to Elliott Turbomachinery Co. Inc. Protection or steam turbines including a superheat monitor. 4,679,399, Cl. 60-646.000.
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ood, Larry R.; Gleason, Kimberly R.; and Strid, Eric W., 7,143, Cl. 324-158.00P.
ll G.: *See—*
sson, Eva M.; Egeli, Finn; Holmberg, Krister A.; Nystrom, e; Stridh, Kjell G.; and Osterberg, Eva M., 4,650,000, Cl. 307.000.
; A.: *See—*
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Lennart; and Rodin, Gunnar, to Mydata Automation AB. and apparatus for calibrating a positioning system. 4,638,232, Cl. 318-640.000.
Stridsberg, Lennart; and Rodin, Gunnar, to Mydata Automation AB. Cassette magazine for a component mounting machine. 4,670,976, 6-9-87, Cl. 29-740.000.
Striebel, Edmund E.: *See—*
Matthews, John A.; Striebel, Edmund E.; Sepulveda, Domingo; and Pane, Francis C., Jr., 4,677,828, Cl. 60-751.000.
Striebel, Randy F.: *See—*
Davidescu, Reghina; Striebel, Randy F.; and Hawks, Roger E., 4,671,964, Cl. 426-461.000.
Striebig AG: *See—*
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Striebig, Ludwig, to Striebig AG. Board saw with sawdust exhaust. 4,638,695, 1-27-87, Cl. 83-100.000.
Strife, James R.: *See—*
Dalton, Donald A.; Strife, James R.; and Swindal, James L., 4,686,684, Cl. 372-99.000.
Strigl, Reinhard, to Linde Aktiengesellschaft. Procedure for deoxidizing metal melts. 4,685,965, 8-11-87, Cl. 75-93.00R.
Strike, Gary P.: *See—*
Crawford, Donald C.; Ross, Jeffrey L.; Strike, Gary P.; and Mory, Steven W., 4,712,357, Cl. 53-450.000.
Striker, Gyorgy: *See—*
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Eckberg, Richard P.; Striker, Richard A.; and Modic, Frank J., 4,684,670, Cl. 522-13.000.
Strikman, Shmuel: *See—*
Taicher, Zvi; and Strikman, Shmuel, 4,710,713, Cl. 324-303.000.
Strilchuk, Andrew R.: *See—*
Nagra, Surjit S.; and Strilchuk, Andrew R., 4,648,453, Cl. 166-281.000.
Stringer, George E. Knife holder for wood chippers. 4,712,597, 12-15-87, Cl. 144-176.000.
Stringer, Orum D.; and Weinstock, Joseph, to SmithKline Beckman Corporation. Intermediates for preparing 7-(2-aminoethyl)-1,3-benzthia- or oxa- zol-2(3H)-ones. 4,663,482, 5-5-87, Cl. 564-374.000.
Stringfellow, Dale A.; and Fasi, Patricia E., to Upjohn Company, The. Method for treating rejection of organ or skin grafts with 6-aryl pyrimidine compounds. 4,665,077, 5-12-87, Cl. 514-269.000.
Stringfellow, William D., to Weatherford U.S., Inc. Valve assembly for inflatable packer. 4,711,301, 12-8-87, Cl. 166-187.000.
Stringham, Glen E.: *See—*
Keller, Jack; and Stringham, Glen E., 4,673,128, Cl. 239-1.000.
Striny, Kurt M., to AT&T Bell Laboratories. Chip carrier package. 4,642,670, 2-10-87, Cl. 357-68.000.
Strinzel, Horst; and Seidl, Alfred, to BHS-Bayerische Berg-, Hutten- und Salzwerke Aktiengesellschaft. Gear installation. 4,658,665, 4-21-87, Cl. 74-467.000.
Striplin, James W. Remote control unit console. 4,712,693, 12-15-87, Cl. 211-164.000.
Strippit/Di-Acro-Houdaille, Inc.: *See—*
Clark, Stephen C., 4,690,021, Cl. 83-71.000.
Clark, Stephen C., 4,709,605, Cl. 83-23.000.
Jelinek, Ross R.; Fraas, Robert R.; Stem, Richard M.; and James, Lewis G., 4,703,925, Cl. 271-11.000.
Shah, Harshad M.; Hill, Ronald C.; and Lux, Arthur J., 4,658,688, Cl. 83-552.000.
Stritzke, Detlef, to Deutsche Gesellschaft. Device for evacuating, filling and closing final storage containers for radioactive materials. 4,638,134, 1-20-87, Cl. 219-9.500.
Stritzke, Detlef, to Deutsche Gesellschaft. Melting furnace for vitrifying highly radioactive waste. 4,660,211, 4-21-87, Cl. 373-36.000.
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Stritzke, Gerd O. Device for ascending and descending a kite string. 4,697,766, 10-6-87, Cl. 244-155.00R.
Stritzke, Karl H.: *See—*
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Stritzl, Karl; Freisinger, Henry; Luschnig, Franz; and Zotter, Johann, to TMC Corporation. Safety ski binding. 4,647,065, 3-3-87, Cl. 280-618.000.
Stritzl, Karl: *See—*
Freisinger, Henry; and Stritzl, Karl, 4,699,397, Cl. 280-633.000.
Strnad, Steve. Wood burning stove. 4,708,123, 11-24-87, Cl. 126-289.000.
Strobel, Albert, to Heinemann Electric Company. Assembly for coupling switch handles. 4,644,114, 2-17-87, Cl. 200-50.00C.
Strobel, Bernhard; and Ratzel, Dieter, to Bruker Medizintechnik GmbH. Process for the excitation of a sample for NMR tomography. 4,697,148, 9-29-87, Cl. 324-309.000.
Strobel, Jean-Paul, to Cirtech S.A. Printed circuit board. 4,661,654, 4-28-87, Cl. 174-68.500.
Strobel, Klaus: *See—*
Buhler, Eugen; Strobel, Klaus; and Schwarzmeier, Karl, 4,704,082, Cl. 425-405.00H.
Strobel, Mark J. Hydraulic unit for waterbed, and method of forming. 4,701,967, 10-27-87, Cl. 5-450.000.
Stroberger, Douglas J., to Tektronix, Inc. Logic signal level conversion circuit. 4,700,087, 10-13-87, Cl. 307-475.000.
Strobl, Frederick P., Jr.; and Meyers, Theodore W., to Tuf-Tite, Inc. Septic system drop box with seal apparatus therefor. 4,663,036, 5-5-87, Cl. 210-170.000.

Ströbl, Georg, to Siemens Electric Industrial Manufactory Limited. Commutator with winding connection segments having cutting edges. 4,656,380, 4-7-87, Cl. 310-236.000.

Ströbl, Gerhard. See—
Rasch, Klaus-Dieter; and Ströbl, Gerhard. 4,642,414. Cl. 136-256.000.

Strock, Alvin E. Protective appliance for the hip joint area. 4,641,641, 2-10-87, Cl. 128-132.00R.

Strock, Dennis J., to Standard Oil Company (Indiana). Underground tank assembly with internal bladder. 4,646,523, 3-3-87, Cl. 220-20.500.

Strockbine, Nancy A. See—
Buckley, Helen R.; Lutgen, Michael T.; and Strockbine, Nancy A., 4,670,382, Cl. 435-7.000.

Stroefer, Eckhard. See—
Swinger, Michael; and Stroefer, Eckhard. 4,702,803, Cl. 204-59.00R.

Stroem, Sigmund, to Kongsberg Vapenfabrikk. Gas turbine engine combustor. 4,651,534, 3-24-87, Cl. 60-732.000.

Stroem, Sigmund. Method for varying the cross-sectional flow area in a radial gas turbine inlet. 4,674,275, 6-23-87, Cl. 60-39.000.

Stroermann, Michael. See—
Zimmermann, Eberhard; and Stroermann, Michael. 4,683,142. Cl. 427-2.000.

Stroh, Clinton B., and Yarbrough, Don L., to Deere & Company. Feed reverser for a combine header. 4,683,919, 5-12-87, Cl. 56-11.200.

Stroh, Norbert; and Lunkenheimer, Paul P., to Carl Freudenberg, Firma Ecdetra, facial tube for a high-frequency respirator. 4,646,733, 3-3-87, Cl. 128-207.160.

Stroh, Paul F. Trimdo accessory. 4,638,711, 1-27-87, Cl. 84-313.000.

Stroh, Paul F. Gear-adjustable bridge. 4,688,461, 8-25-87, Cl. 84-298.000.

Strohbeen, David T. See—
Ales, Thomas M.; Strohbeen, David T.; Duncan, Joyce A.; Van Gompel, Paul T.; and Abel, Kent W., 4,639,949, Cl. 2-400.000.
Ales, Thomas M.; Strohbeen, David T.; and Duncan, Joyce A., 4,642,819, Cl. 2-400.000.
Westphal, Dean W.; and Strohbeen, David T., 4,694,978, Cl. 223-29.000.

Strohl, Clair. See—
Epstein, Paul; Pritchek, Harry; LaWhite, Eric; Strohl, Clair; Coyne, Henry; Koleskas, Edward; and Adamyk, George, 4,696,671, Cl. 604-67.000.

Strohm Brothers, Inc. See—
Strohm, Michael W., 4,699,220, Cl. 172-166.000.

Strohm, Karl. See—
Hersener, Jurgen; Herzog, Hans-Joerg; and Strohm, Karl, 4,647,517, Cl. 430-5.000.

Strohm, Michael W., to Strohm Brothers, Inc. Row crop aerator. 4,699,220, 10-13-87, Cl. 172-166.000.

Strohm, Wilbur F., Jr. Linear weaving machine. 4,682,637, 7-28-87, Cl. 140-3.000.

Strohmaier, Ernst, to Kaltenbach & Voigt GmbH & Co. Dental handpiece. 4,661,066, 4-28-87, Cl. 433-82.000.

Strohmaier, Karl G. See—
Vaughan, David E. W.; and Strohmaier, Karl G., 4,657,748, Cl. 423-329.000.
Vaughan, David E. W.; and Strohmaier, Karl G., 4,661,332, Cl. 423-326.000.

Strohmeier, Werner; Knoll, Dieter; and Handler, Erich, to Boehringer Mannheim GmbH. Apparatus for determining the diffuse reflectivity of a sample surface of small dimensions. 4,676,653, 6-30-87, Cl. 356-446.000.

Strohmeyer, Erich; and Marschhausen, Karl-Heinz, to FHS Stahlverformung GmbH. Pivot housing for a shift lever having a reverse lock. 4,646,585, 3-3-87, Cl. 74-476.000.

Strohmeyer, Max. See—
Ottenacher, Armin V.; Strohmeyer, Max; Hoffmann, Herwig; and Ellichausen, Heinrich, 4,709,105, Cl. 568-883.000.

Strohmeyer, Wilh., to Wilhy Strohmeyer Maschinenbau. Arrangement for rolling up and unrolling of material webs. 4,695,329, 10-13-87, Cl. 242-65.000.

Strohriegl, Peter. See—
Spies, Manfred; Strohriegl, Peter; and Heitz, Walter, 4,696,999, Cl. 528-119.000.

Stroi, Johann, to Fischer Gesellschaft m.b.H. Process of manufacturing a ski and a ski which is manufactured by that process. 4,634,140, 1-6-87, Cl. 280-610.000.

Strole, Ulrich; Farber, Jurgen; and Tholen, Arnold. Container made out of a flat material like paper, cardboard, etc. with a ridged seam closure, especially a parallelepipedal container for liquid and made out of paper, plastic or composite. 4,634,008, 1-6-87, Cl. 206-628.000.

Stroll, Zoltan. See—
Roberts, Allen M.; Sangster, Andrew; and Stroll, Zoltan, 4,706,077, Cl. 340-728.000.

Stroller, Christopher H., to RCA Corporation. TV graphic displays without quantizing errors from compact image memory. 4,656,467, 4-7-87, Cl. 340-727.000.

Stroller, Christopher H.; and Reitmeier, Glenn A., to RCA Corporation. Progressive scan television system with interlaced inter-field sum and difference components. 4,661,850, 4-28-87, Cl. 358-140.000.

Stroller, Christopher H.; Smith, Terrence R.; and Hadwen, Brian M., to RCA Corporation. Video signal processing apparatus. 4,683,490, 7-28-87, Cl. 358-30.000.

Stroller, Clifford H. See—
Cluff, Stephen L.; and Stroller, Clifford H., 4,665,521, Cl. 525-131.000.
Nahas, Robert C.; and Stroller, Clifford H., 4,659,791, Cl. 528-73.000.
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Ratkiewic, Andrew F.; and Stroller, Clifford H., 4,681,933, Cl. 456-458.000.
Stamegna, Andrew P.; and Stroller, Clifford H., 4,659,781, Cl. 525-131.000.
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Stroller, Joyce J. Necktie retainer and method for creating necktie. 4,667,346, 5-26-87, Cl. 2-152.00R.

Strom, Edwin T. See—
Chung, Harold S.; Jennings, Alfred E., Jr.; and Strom, Edwin T., 4,702,316, Cl. 166-272.000.
Chung, Harold S.; Jennings, Alfred E., Jr.; and Strom, Edwin T., 4,702,318, Cl. 166-274.000.
Paul, James M.; and Strom, Edwin T., 4,676,308, Cl. 166-270.00R.

Strom, Hans I. See—
Andreassen, Bo C.; Donnerdal, Jan O.; and Strom, Hans I., 4,656,085, Cl. 123-335.000.

Strom, James. See—
Hanlon, Stephen P.; Kerby, Walter J.; Purdy, Edmund R., Jr.; Strom, James, 4,674,567, Cl. 128-675.000.

Strom, James A., to Geomatic. Insta-soil shear measurement apparatus. 4,649,741, 3-17-87, Cl. 73-84.000.

Strom, Johan P. See—
Larsson, Klas G. I.; Lindholm, Rolf C.; and Strom, Johan P., 4,693,616, Cl. 69-41.070.

Strom, Jon. See—
Yasuda, Hiroshi; Ohuchi, Kanji; Yokota, Satoshi; and Strom, Jon, 4,700,377, Cl. 379-89.000.

Strom, Robert E., and Yemini, Shmula, to International Business Machines Corporation. Optimistic recovery in a distributed processing system. 4,665,520, 5-12-87, Cl. 371-7.000.

Strom, Ø-ulf. See—
Henriksen, Jarmer Wisakanes; Rasch, and Strom, Rolf, 4,702,621, Cl. 64-37.000.

Strom, Stephen A.; Schmidt, Kenneth W.; and Pitzer, William E., to National Semiconductor Corporation. Power line carrier communications system transformer bridge. 4,642,607, 2-10-87, Cl. 340-310.00A.

Strom-Tec, Inc. See—
Arendorf, Stephen C.; Stromgren, Lawrence T.; and Gouldrup, Neal, 4,691,697, Cl. 128-80.00E.

Strom, Volker E.; Johansson, Bo-Lennart I.; Karlsson, Hakan L. or Ostmats, Thomas, to Svenska Traforskningsinstitutet. Web tension measuring method and device. 4,655,093, 4-7-87, Cl. 73-862.410.

Stromback, Tore J. See—
Akerlund, Mats P.; and Stromback, Tore J., 4,619,301, Cl. 30-347.0CC.

Stromberg, Lars A., to Studsvik Energiteknik AB. Fuel fluidized bed boiler and a method of controlling such a boiler. 4,686,939, 8-18-87, Cl. 122-4.00D.

Stromberg, Nicklas. See—
Lloyd, Kenneth O.; Old, Lloyd J.; Karlsson, Karl-Anders; Lewis, Goran; Stromberg, Nicklas; Thurin, Jan; Aagen, Bernt R.; and Ortegren, Herbert F., 4,678,747, Cl. 435-7.000.

Stromberg, Wilfried; and Kuhnigk, Theo, to Becker-Pruste GmbH. Chain lock for round link chain strands particularly for use in mining. 4,706,451, 11-17-87, Cl. 59-85.000.

Stromgren, Lawrence T. See—
Arendorf, Stephen C.; Stromgren, Lawrence T.; and Gouldrup, Neal, 4,691,697, Cl. 128-80.00E.

Stromsodel, Konrad, to Fischerwerke Artur Fischer GmbH & Co. KG. Fastening dowel of plastics. 4,659,269, 4-21-87, Cl. 411-34.000.

Stromsnes, Roe. Probe for monitoring the corrosion of a steel reinforcement member in a concrete body. 4,703,253, 10-27-87, Cl. 324-65.0CR.

Strommen, Roe. Probe for corrosion testing. 4,703,254, 10-27-87, Cl. 324-65.0CR.

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Hrehin, Herbert; and Strommer, Kurt, 4,711,961, Cl. 75-419.000.

Stromquist, Donald M.; and Wathen, Boyd J. Gel type slurry explosive and matrix and method for making same. 4,693,765, 9-15-87, Cl. 149-60.000.

Stromquist, Michael E.; and Richardson, Richard J., to Anthony Manufacturing Company, Inc. Combined, plug-in hinge pin and double-ended electrical connector for a hinged appliance door, with mating receptacle and connectors. 4,671,582, 6-9-87, Cl. 439-31.00.

Stromquist, Michael E., to Anthony's Manufacturing Company, Inc. Combined adjustable door hinge pin socket and adjustable tongue rod anchor device. 4,696,078, 9-29-87, Cl. 16-301.000.

Stromswold, Chester E., to Sanders Associates, Inc. Feed-forward error correction for sandaps and other phase-locked loops. 4,668,01, 8-18-87, Cl. 331-25.000.

Stromswold, Chester E. See—
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...old, David C. See—
..., Laura S.; Mills, William R., Jr.; and Stromwold, David C., ...607,617, Cl. 250-270.000
...Alexander R.; and Karplus, Kevin J., to Leland Stanford Junior ...ors. The Board of Trustees of the. Wavetable-modification ...ment and method for generating musical sound. 4,649,780, ...7, Cl. 84-1.010
...ey D.; Martin, Robert C.; Owens, Kevin M.; and Salzman, ...E., to Texas Instruments Incorporated. High to low transition ...ge circuit for TTL-type gates. 4,704,548, 11-3-87, Cl. ...6.00.
...David, to United States of America, Air Force. Inspection ...ance data entry method. 4,641,250, 2-3-87, Cl. 364-507.000.
...Douglas H. See—
..., Gary T.; Strong, Douglas H.; and Urbanski, Janet B., ...645,746, Cl. 524-442.000
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...di, Dorian; Cristian, Flavin T.; and Strong, Hovey R., ...944,542, Cl. 371-22.000.
...James W., to K. J. Law Engineers, Inc. Measuring friction ...haracteristics of vehicle travel surfaces. 4,662,211, 5-5-87, Cl. ...00.
...Michael P., to J. B. Gold Enterprises, Inc. Golfer's arm move...ment control device. 4,691,924, 9-8-87, Cl. 273-189.00R.
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...gson, Thomas C. 4,681,077, Cl. 156-321.000
...Russell W., to New Holland Inc. Integrally mounted position ...sensor extension. 4,711,078, 12-8-87, Cl. 130-27.003.
...Russell W.; and Rutt, Kenneth S., to New Holland Inc. Con...trols adjustment mechanism. 4,712,568, 12-15-87, Cl. ...2.000.
...Williams A. Apparatus for gasifying waste oil. 4,673,413, ...7, Cl. 48-105.000.
...William E., III; and Olyarchik, John, Jr., to Superior Electric ...ery. The. Programmable electrical connector. 4,699,025, ...7, Cl. 439-189.000.
...Lars H.; and Lundgren, Sten O. T., to Spiromex AB. Hand ...held filling valve for filling containers with gaseous medium. ...801, 3-10-87, Cl. 141-19.000
...Alexandr Y. See—
...ubov, Vladimir G.; Tsygankov, Jury D.; Chistyendov, Andrey ...; Sventilov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; ...arkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; ...Smetyukhin, Galina S.; Salomatina, Irina S.; Dolgunov, Grig...ory M.; Anuriov, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; ...Pronin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, ...ry A. 4,693,280, Cl. 435-68.000.
...Jr., John M., and Freund, David M., to RPM Industries, Inc. ...Display device. 4,666,048, 5-19-87, Cl. 211-170.000.
...Murray. Combination ice scraper and mitt. 4,683,592, ...Cl. 2-17.000.
...Edward J., to Fitness Quest, Inc. Exercise device. 4,659,077, ...7, Cl. 272-97.000.
...Fabrizio. See—
...elli, Maurizio; Ferrari, Pierferdinando; Streppa, Fabrizio; and ...Zanni, Giuseppe. 4,654,446, Cl. 568-630.000.
...ss, Robert J., to U.S. Philips Corporation. Static relay having ...low detecting load defects. 4,675,560, 6-23-87, Cl. 307-570.000.
...ss, Robert J., to U.S. Philips Corporation. Static relay for low ...voltages. 4,716,309, 12-29-87, Cl. 307-442.000.
...Fabrizio. See—
...ganga, Annibale; Giancello, Valter; Streppola, Federico; and ...Zanni, Luigi. 4,659,215, Cl. 324-43.000
...Richard P.; Bohman, Carl E.; and Chow, Mark K., to New ...d Inc. Metal detector sensitivity adjustment and test assembly. ...66, 1-27-87, Cl. 324-202.000.
...40, Joachim. See—
..., Kurt; Nurdenstarter, Walter; Strozynski, Joachim; Bohm, ...ster; and Spornschnitz, Gerhard. 4,655,216, Cl. 101-479.000.
...s, Klaus, to Alfa-Laval Separation AB. Maintaining closing ...level in centrifuges, for operating slide valves. 4,636,319, ..., Cl. 210-781.000.
...s, Klaus; and Gustafsson, Bengt-Olof, to Alfa-Laval Separa...tion AB. Centrifuge operating system. 4,643,708, 2-17-87, Cl. ...00.
...s, Klaus, to Alfa-Laval Separation AB. Centrifugal separator ...53, 10-6-87, Cl. 494-70.000.
...ankley G., to NL Industries, Inc. System for determining the ...ion of pipe stuck in a borehole. 4,708,204, 11-24-87, Cl. ...000.
...Stephen D. See—
..., Chris-Ivan J.; Struempf, Stephen D.; and Jolley, Michael E., ...640, Cl. 436-536.000
...Kenneth M., to Phillips Petroleum Company. Programming a ...ial computer. 4,648,063, 3-3-87, Cl. 364-900.000
...ington E. See—
...ge, David L.; and Strover, Angus E., 4,662,886, Cl. 623-13.000
...ry H. See—
..., Jimmy D.; Cobb, Michael E.; Hillman, Robert S.; Mungall, ...mes R.; Ostroth, Vladimir E.; and Stroy, Gary H., 4,712,460, ...53-208.000
...o F.; and Puglia, Wayne J., to Nabisco Brands, Inc. Composi...tion and method for providing controlled release of sweetener in ...ions. 4,634,593, 1-6-87, Cl. 426-5.000

Strube, Gernot; and Jordan, Manfred, to Dr.-Ing. Max Schlotter GmbH & Co. KG. Process for preserving the solderability of through hole plated printed circuit boards. 4,650,548, 3-17-87, Cl. 204-15.000
Strubel, David G.; and Sanford, Robert A., to Brown & Williamson Tobacco Corporation. Process for manufacturing reconstituted tobacco. 4,681,126, 7-21-87, Cl. 131-370.000
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Jennings, Alfred R., Jr.; and Strubhar, Malcolm K., 4,669,546, Cl. 166-308.000.
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Struble, Bud G. See—
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Struck, Bernd D. See—
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Maitland, Arthur; Menown, Hugh; Strudwick, Ian A.; Weatherup, Clifford R.; and Carman, Robert J., 4,698,546, Cl. 313-446.000.
Strugaty, Arthur. Method for casting polyester on glass mold. 4,697,689, 9-16-87, Cl. 264-132.000.
Struger, Otto J., to Allen-Bradley Company, Inc. Method and apparatus for exchanging multiple data bytes with an I/O module in a single scan. 4,691,296, 9-1-87, Cl. 364-900.000.
Strul, Bruno. See—
Alvarez, Robert; Lehmann, Leonard; and Strul, Bruno, 4,710,624, Cl. 250-228.000.
Strum, Bruce J. See—
Saldo, Neil P.; Strum, Bruce J.; Livoti, Michael V.; and Maurer, Allan, 4,665,501, Cl. 364-900.000.
Strumia, Ettore, to Schiapparelli Farmaceutici S.p.A. Therapeutical use of phosphocreatine. 4,675,314, 6-23-87, Cl. 514-75.000.
Strumpf, Thomas. See—
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Strumpfabriken Viscaria Aktiebolag. See—
Lovqvist, Bo, 4,706,411, Cl. 47-31.000.
Strunk, Fred E. Alignment adjuster for motors and the like. 4,671,492, 6-9-87, Cl. 254-104.000.
Strunk, Richard J.; and Moore, Richard C., to Uniroyal Chemical Company, Inc. Substituted oxime carbamates. 4,640,927, 2-3-87, Cl. 514-342.000.
Strupczewski, Joseph T., to Hoechst-Roussel Pharmaceuticals Inc. Antipsychotic 3-(piperidinyl)- and 3-(pyrrolidinyl)-1H-indazoles. 4,670,447, 6-2-87, Cl. 514-372.000.
Strupczewski, Joseph T., to Hoechst Roussel Pharmaceuticals Inc. 3-(piperidinyl)-and 3-(pyrrolidinyl)-1H-indazoles. 4,710,573, 12-1-87, Cl. 546-199.000.
Struss, Arthur W., to USG Corporation. Lightweight joint compound. 4,657,594, 4-14-87, Cl. 106-308.05N.
Struss, Arthur W.; Williams, Terrance L.; and Eby, Lawrence T., to United States Gypsum Company. Lightweight joint compound having improved pumpability. 4,686,253, 8-11-87, Cl. 524-44.000.
Struss, Rodney A.; Costello, Norman F.; and Granetzke, Dennis C., to Modine Manufacturing Company. Heat exchanger module for a vehicle or the like. 4,651,816, 3-24-87, Cl. 165-76.000.
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Struthers, Ralph C. Gas fueled fuel cell. 4,659,556, 4-21-87, Cl. 429-46.000.
Struthers, Ralph C. Methanol hydrogen fuel cell system. 4,659,634, 4-21-87, Cl. 429-19.000.
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Struve, Alfred; Upadek, Horst; and Gieke, Juergen, to Henkel Kommanditgesellschaft auf Aktien. Alkanolamin salts of alkenyl succinic acid dialkyl semiamide corrosion inhibitors. 4,705,666, 11-10-87, Cl. 422-16.000.
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Strydom, Mauritz L., to Tobacco Research and Development Institute Limited. Tobacco smoke filters. 4,702,263, 10-27-87, Cl. 131-336.000.
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Stuart, Gerald W., to Traffic Transport Engineering, Inc. Trailer with special ramps. 4,693,651, 9-15-87, Cl. 410-30.000.
Stuart, Glenn A., to Dow Chemical Company, The. Animal litter and related processes. 4,685,420, 8-11-87, Cl. 119-1.000.
Stuart, Herbert H., to Lact-Assist, Incorporated. Flexible breast receptor for breast pump. 4,680,028, 7-14-87, Cl. 604-74.000.
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Stuart, James F. B. Monitoring of drug levels. 4,658,833, 4-21-87, Cl. 128-771.000.
Stuart, James M., to Malvern Scale Company. Scale. 4,646,859, 3-3-87, Cl. 177-187.000.
Stuart, Judy E. *See*—
Barbidge, George A.; and Stuart, Judy E., 4,659,925, Cl. 250-260.000.
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Stuart, Van I. W.; and Priddy, Duane B., to Dow Chemical Company, The. Blends of polypropylene and vinylaromatic/α-methylstyrene copolymers. 4,704,431, 11-3-87, Cl. 525-75.000.
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Stubenberg, Johann; Denk, Heinrich; and Zeiringer, Rudolf, to AVL Gesellschaft für Verbrennungskraftmaschinen und Messtechnik m.b.H. Prof. Dr.Dr.h.c. Hans List. Pressure sensor. 4,711,129, 12-8-87, Cl. 73-708.000.
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Solano, William E.; Docherty, James P.; and Stubenbort, Joseph W., 4,637,795, Cl. 432-138.000.
Stubenfoll, Leonard J. *See*—
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Stuber, Wayne G.; Studer, David W.; and Winters Jr., Arthur R., to Air Products and Chemicals, Inc. Combined process to produce liquid helium, liquid nitrogen, and gaseous nitrogen from a crude helium feed. 4,659,351, 4-21-87, Cl. 62-18.000.
Stuber, Werner, to Behringwerke Aktiengesellschaft. Oligopeptidylarginmol derivatives and their homologs, a process for their preparation, their use and agents containing them. 4,713,369, 12-15-87, Cl. 514-18.000.
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Stuck, Andrew G. Rotary boat repair apparatus. 4,686,925, 8-18-87, Cl. 114-224.000.
Stuck, Matthew A., to Modern Mfg. Co. Inc. Device for packaging plants. 4,640,079, 2-3-87, Cl. 53-390.000.
Stuckel, Robert W. Ball inflation apparatus. 4,714,098, 12-22-87, Cl. 141-85.000.
Stucker, David L., to Westinghouse Electric Corp. Quick disconnect top nozzle for a nuclear fuel assembly. 4,702,882, 10-27-87, Cl. 376-446.000.
Stucker, Harold L., to General Electric Company. Phase lag adjustment in electric meter. 4,649,337, 3-10-87, Cl. 324-138.000.
Stucker, Harold L., to General Electric Company. Annular rotor disk for electric meter. 4,673,874, 6-16-87, Cl. 324-137.000.
Stuckey, William C. Integrated liquid distribution apparatus. 4,678,34[illegible], 7-7-87, Cl. 366-142.000.
Studanski, Richard R. Compression string brea[illegible] 4,644,928, 2-24-87, Cl. 124-24.00R.
Stude, Rolf-Rudiger. *See*—
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Studer, Philip A., to United States of America, National Aeronautics and Space Administration. Radial and torsionally controlled magnetic bearing. 4,634,191, 1-6-87, Cl. 310/90.500.
Studer, Philip A. Spring neutralized magnetic vibration isolator. 4,710,656, 12-1-87, Cl. 310-51.000.
Studer, Robert L. and Schourup, William F. Method and apparatus for valve assembly for a hot water tank. 4,691,726, 9-8-87, Cl. 137-15.00.
Studiecentrum voor Kernenergie, S.C.K. *See*—
Rahier, Andre; Cornelissen, Rene D. W.; and Bruggeman, Ann, 4,714,533, Cl. 204-262.000.
Weyers, Charles; Klein, Michel; and Geeroms, Walter, 4,701,194, Cl. 55-228.000.
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Bogdanovic, Borislav, 4,659,373, Cl. 75-0.5BA.
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Ropars, Claude; Nicolau, Yves C.; and Chassagne, Maurice, 4,652,449, Cl. 424-101.000.
Studniarz, Stanley A.; Botts, John C.; and Johnson, John S., to Westinghouse Electric Corp. High voltage dynamoelectric machine with selectively increased coil turn-to-turn insulation strength. 4,634,91[illegible], 1-6-87, Cl. 310-215.000.
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Arvesen, Jan, 4,704,235, Cl. 252-626.000.
Hultgren, Ake V., 4,671,898, Cl. 252-628.000.
Stromberg, Lars A., 4,686,939, Cl. 122-4.00D.
Studt, William L.; Riley, Richard L.; and Douglas, George H., to Rorer Pharmaceutical Corporation. Substituted phenyl amidinoureas. 4,704,401, 11-3-87, Cl. 514-456.000.
Studt, William L.; Zimmerman, Harry K.; and Dodson, Stuart A., to Rorer Pharmaceutical Corporation. Heterocyclic amidino substituted ureas and their pharmaceutical uses. 4,707,478, 11-17-87, Cl. 514-580.000.
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Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,638,001, Cl. 514-212.000.
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Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,647,559, Cl. 514-212.000.
Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; Molloy, Bruce F.; Tucker, Thomas J.; and Banti, Ferdinand, Jr., 4,666,913, Cl. 514-259.000.
Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Neuenschwander, Kent W., 4,668,673, Cl. 514-212.000.
Kuhla, Donald E.; Studt, William L.; Campbell, Henry F.; and Yelnosky, John, 4,689,335, Cl. 514-361.000.
Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,692,445, Cl. 514-212.000.
Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,699,906, Cl. 514-212.000.
Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Dodson, Stuart A., 4,704,388, Cl. 514-222.000.

Kubla, Donald E.; Studt, William L.; Campbell, Henry F.; and Yelnosky, John, 4,714,707, Cl. 514-361.000.
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Sturck, Troy L., to United States of America, Air Force. Ratio analyzer. 4,694,195, 9-15-87, Cl. 307-234.000.
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Stuetz, Anton, to Sandoz Ltd. Anti-fungal homopropargylamines, compositions, and method of use therefor. 4,684,661, 8-4-87, Cl. 514-443.000.
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Stulz, Hans W., to Linde Aktiengesellschaft. Apparatus for the storage of energy. 4,674,280, 6-23-87, Cl. 60-413.000.
Stuhrmann, Heinz, and Kryscyk, Robert, to Deere & Company. Front hitch assembly. 4,659,102, 4-21-87, Cl. 280-481.000.
Stuke, Michael, to Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V. Laser mass spectrometer. 4,686,366, 8-11-87, Cl. 250-287.000.
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Stull, Gene: Hand-held dispenser with automatic cap venting. 4,646,947, 3-3-87, Cl. 222-397.000.
Stull, Gene: Captive dispensing cap construction. 4,646,949, 3-3-87, Cl. 222-521.000.
Stull, Gene: Cap and means for retaining cap liner. 4,648,520, 3-10-87, Cl. 215-350.000.
Stull, Gene: Screw cap with sealing liner. 4,651,886, 3-24-87, Cl. 215-329.000.
Stull, Gene: Captive cap construction for hand-held dispenser. 4,653,676, 3-31-87, Cl. 222-566.000.
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Stump, Lee F., to Timesavers, Inc. Continuous arcuate feed assembly. 4,635,405, 1-13-87, Cl. 51-145.00T.
Stump, Lee F., to Timesavers, Inc. Vertically self-centering feed assembly. 4,640,056, 2-3-87, Cl. 51-138.000.
Stumpe, Leroy, to Du-Al Manufacturing Company. Loader mount. 4,637,772, 1-20-87, Cl. 414-686.000.
Stumpe, Werner, to Robert Bosch GmbH. Multiple-axle vehicular braking effort distribution method and system. 4,677,557, 6-30-87, Cl. 364-426.000.
Stumpf, Burkhard: *See*—
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Stumpf, Gunter O., to Gunter O. Stumpf GmbH & Co. KG. Manually controllable machine such as a fabric cutting machine. 4,683,658, 8-4-87, Cl. 30-275.000.
Stumpf, Joachim: *See*—
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Stumpf, Sybille: *See*—
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Stumpp, Gerhard; and Wessel, Wolf, to Robert Bosch GmbH. Correcting arrangement for a fuel metering apparatus of an internal combustion engine. 4,667,633, 5-26-87, Cl. 123-357.000.
Stumpp, Gerhard; Sautter, Wilfried; and Wessel, Wolf, to Robert Bosch GmbH. Fuel injection system for self-igniting internal combustion engines. 4,671,232, 6-9-87, Cl. 123-300.000.
Stumpp, Gerhard: *See*—
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Stumpp & Kurz GmbH & Co.: *See*—
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Kruger, Bernd-Wieland; Hayashi, Yutaka; Lockhoff, Oswald; Stadler, Peter; Metzger, Karl G.; Stunkel, Klaus G.; and Zeller, Hans-Joachim, 4,699,899, Cl. 514-42.000.
Kruger, Bernd-Wieland; Lockhoff, Oswald; Metzger, Karl G.; Opitz, Hans-Georg; Schaller, Klaus; Stunkel, Klaus G.; and Zeller, Hans-Joachim, 4,716,152, Cl. 514-25.000.
Stupak, Joseph J., Jr., to Synektron Corporation. Variable reluctance actuator having position sensing and control. 4,659,969, 4-21-87, Cl. 318-128.000.
Stupak, Joseph J., Jr., to Synektron Corporation. Method for sensing and controlling the position of a variable reluctance actuator. 4,665,348, 5-12-87, Cl. 318-135.000.
Stupak, Joseph J., Jr.: *See*—
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Stupp, Edward H.; and Fellows, Mark W., to North American Philips Corporation. Variable frequency current control device for discharge lamps. 4,698,554, 10-6-87, Cl. 315-307.000.
Stupp, Edward H.; and Fellows, Mark W., to North American Philips Corporation. Variable high frequency ballast circuit. 4,700,115, 10-13-87, Cl. 315-224.000.
Stupp, Edward H.; Fellows, Mark W.; and Steneck, Walter G., to North American Philips Corporation. High frequency oscillator-inverter ballast circuit for discharge lamps. 4,701,671, 10-20-87, Cl. 315-224.000.
Stupp, Edward H., to North American Philips Corporation. Complementary lateral insulated gate rectifiers with matched "on" resistances. 4,712,124, 12-8-87, Cl. 357-23.400.
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Sturdy, H. David, to Sturdy Truck Equipment, Incorporated. Road and engine speed governor with power demand control. 4,640,246, 2-3-87, Cl. 123-350.000.
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Sturges, Fred D.; and Spokas, Romas B., to Borg-Warner Corporation. Torsional vibration dampening system. 4,674,609, 6-23-87, Cl. 192-0.033.
Sturgill, Dennis T., to Owens-Illinois, Inc. Inspection of container finish. 4,701,612, 10-20-87, Cl. 250-223.00B.
Sturgis, James I. Anti-mismatch system. 4,696,326, 9-29-87, Cl. 137-614.040.
Sturgis, John L.; and Keene, Robert G., deceased (by Keene, Bonnie J., administratrix), to Polaroid Corporation. Laminar batteries and methods of making the same. 4,664,992, 5-12-87, Cl. 429-176.000.
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Sturm, Budd H.; and Kuczkowski, Joseph A., to Goodyear Tire & Rubber Company, The. Autosynergistic phenolic antioxidant reaction product. 4,707,300, 11-17-87, Cl. 252-404.000.
Sturm, Carolyn M. Clasp lock. 4,667,378, 5-26-87, Cl. 24-616.000.
Sturm, Elmar; and Maienfisch, Peter, to Ciba-Geigy Corporation. 5-azolylacetoxymilbemycins as ecto- and endoparasites. 4,696,922, 9-29-87, Cl. 514-185.000.
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Ghosh, Shyamal-Krishna; and Sturm, Emil, 4,672,290, Cl. 318-817.000.
Sturm, Gerd-Jochen; and Wehking, Wolfgang, to Prameta Praezisionsmetall- und Kunststofferzeugnisse G. Bauman & Co. Tourniquet. 4,640,281, 2-3-87, Cl. 128-327.000.

Sturm, Gerhard, to ebm Elektrobau Mulfingen GmbH & Co. External rotor motor with screwed on motor flange. 4,634,908, 1-6-87, Cl. 310-64.000.

Sturm, Hans, to Mannesmann AG. Method for automatically adjusting the rolls in a universal type mill stand. 4,702,099, 10-27-87, Cl. 72-366.000.

Sturm, Hans-Josef, to Knebel & Rottger GmbH & Co. Method and circuitry for control of a sanitary mixer for cold and hot water. 4,693,415, 9-15-87, Cl. 236-12.120.

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Sturmer, Amy M.; and Sternick, John L., to Unigene Laboratories, Inc. Immunization by immunogenic implant. 4,689,220, 8-25-87, Cl. 424-85.000.

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Stursa, Lloyd C., to E. F. Johnson Company. Right angle coaxial connector. 4,655,534, 4-7-87, Cl. 339-177.00R.

Stursberg, Bernd, to Peddinghaus, Carl Ulrich. Apparatus for punching of angular steel profiles. 4,688,456, 8-25-87, Cl. 83-368.000.

Sturton, Graham: *See*—
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Sturtz, Charles R.; and McCallin, Peter J., to FMC Corporation. Automatic level device. 4,662,809, 5-5-87, Cl. 414-347.000.

Sturtz, Charles R., to FMC Corporation. Rear platform lift. 4,701,097, 10-20-87, Cl. 414-495.000.

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Sturtz, John P.: *See*—
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Cloke, Martin; Horton, Michael; Menne, Rudolf; and Srwiorok, Andreas, 4,706,622, Cl. 123-306.000.

Styczinski, David A.: *See*—
Greenberg, Richard; and Styczinski, David A., 4,656,532, Cl. 360-48.000.

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Pentlow, Stephen J., 4,650,625, Cl. 264-225.000.

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Moxon, Edwin C., 4,639,792, Cl. 358-335.000.

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Sudo, Tadashi: *See*—
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Sueda, Tetsuo; and Yoshii, Minoru, to Canon Kabushiki Kaisha. Aberration measuring method. 4,641,962, 2-10-87, Cl. 356-124.000.
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Sueda, Tetsuo; and Ando, Toshinori, to Canon Kabushiki Kaisha. Document sheet size or position recognition device. 4,696,511, 10-6-87, Cl. 250-560.000.
Sueda, Tetsuo: *See*—
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Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,732, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,733, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,734, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,735, Cl. 430-57.000.
Sueddeutsche Kuehlerfabrik Julius F. Behr GmbH: *See*—
Schwarz, Gebhard, 4,700,774, Cl. 165-140.000.
Sueddeutsche Kuehlerfabrik Julius Fr. Behr: *See*—
Dietzsch, Kurt; and Oess, Hans-Dieter, 4,662,561, Cl. 237-12.30B.
Sueddeutsche Kuehlerfabrik Julius Fr. Behr GmbH: *See*—
Martin, Hans, 4,658,671, Cl. 74-751.000.
Martin, Hans; and Braatz, Andreas, 4,667,791, Cl. 192-58.00B.
Sueddeutsche Kuehlerfabrik Julius Fr. Behr GmbH & Co. KG: *See*—
Denk, Walter, 4,633,898, Cl. 137-315.000.
Dietzsch, Kurt; and Oess, Hans-Dieter, 4,671,810, Cl. 55-309.00.
Hauser, Kurt, 4,667,792, Cl. 192-58.00B.
Nonnenmann, Manfred, 4,665,051, Cl. 502-419.000.
Weible, Reinhold; and Lochmahr, Karl, 4,650,045, Cl. 192-0.02B.
Witzel, Karlheinz, 4,712,611, Cl. 165-122.000.
Sueddeutsche Kuhlerfabrik Julius Fr. Behr GmbH & Co. KG: *See*—
Martin, Hans, 4,640,235, Cl. 123-41.030.
Nonnenmann, Manfred, 4,647,435, Cl. 422-180.000.
Suehiro, Kenji: *See*—
Hidaka, Kazutaka; and Suehiro, Kenji, 4,647,937, Cl. 343-742.00.
Suehiro Seiko Kabushiki Kaisha: *See*—
Kume, Takeshi, 4,641,432, Cl. 30-383.000.
Suehiro, Teruyoshi: *See*—
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,674,556, Cl. 164-454.000.
Sakaguchi, Haruo; Suehiro, Teruyoshi; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu, 4,694,895, Cl. 164-416.000.
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Suehiro, Yoshiyuki: *See*—
Naitoh, Mitsugu, and Suehiro, Yoshiyuki, 4,701,919, Cl. 371-21.000.
Suehisa, Shiro; and Kajiwara, Hideki, to Joint Chemical Co. Ltd. Mixing device. 4,657,400, 4-14-87, Cl. 366-144.000.
Suematsu, Kazumi; Soutome, Kaoru; and Arakawa, Tatsumi, to Asahi Kasei Kogyo Kabushiki Kaisha. Fluorinated graphites and a process for production thereof. 4,639,297, 1-27-87, Cl. 204-59.00F.
Suematsu, Koshi; Takenouchi, Masanori; Urawa, Motoo; and Ikeda, Takeshi, to Canon Kabushiki Kaisha. Method for developing electrostatic latent image with non-magnetic toner. 4,666,814, 5-19-87, Cl. 430-126.000.
Suematsu, Koshi; and Imai, Eiichi, to Canon Kabushiki Kaisha. Electrophotographic positively chargeable developer containing silica treated with a nitrogen-containing silane coupling agent and method of developing. 4,680,245, 7-14-87, Cl. 430-110.000.
Suematsu, Koshi: *See*—
Ikeda, Takeshi; Imai, Eiichi; Fukumoto, Hiroshi; Tanaka, Kazuhiko; Suematsu, Koshi; Urawa, Motoo; and Takenouchi, Masanori, 4,663,263, Cl. 430-110.000.
Suematsu, Toshio: *See*—
Anzai, Katsushi; Harada, Osamu; Suematsu, Toshio; and Takeda, Yuji, 4,712,522, Cl. 123-179.00L.
Harada, Osamu; Suematsu, Toshio; Takeda, Yuji; and Anzai, Katsushi, 4,640,251, Cl. 123-425.000.
Harada, Osamu; Takeda, Yuji; Suematsu, Toshio; Anzai, Katsushi; and Funato, Kazuhiko, 4,708,113, Cl. 123-425.000.
Takeda, Yuji; Anzai, Katsushi; Harada, Osamu; and Suematsu, Toshio, 4,655,186, Cl. 123-480.000.
Takeda, Yuji; Suematsu, Toshio; Harada, Osamu; and Anzai, Katsushi, 4,664,086, Cl. 123-489.000.
Takeda, Yuji; Anzai, Katsushi; Harada, Osamu; and Suematsu, Toshio, 4,688,534, Cl. 123-339.000.
Suematu, Jiro: *See*—
Tsuruoka, Kouichi; Kannan, Takaaki; and Suemata, Jiro, 4,699,264, Cl. 198-468.200.
Suematu, Yoshiyuki: *See*—
Echigo, Yoshiaki; Yamao, Mutsunori; Suematu, Yoshiyuki; Ishikura, Tadashi; Asami, Keiichi; and Shidei, Ritsuko, 4,640,971, Cl. 528-129.000.
Suemitsu, Yuji: *See*—
Fujimura, Yoshihiko; Saitoh, Koichi; and Suemitsu, Yuji, 4,686,933, Cl. 118-623.000.
Horie, Kiyoshi; Noami, Tsuneo; Masuda, Koji; Saitoh, Koichi; Maruyama, Kazuo; Fujimura, Yoshihiko; Suemitsu, Yuji; and Yamamoto, Toshiro, 4,653,896, Cl. 355-3.0DD.
Suemori, Noboru: *See*—
Nakamura, Koozoo; Hamada, Nagaharu; Tadauchi, Masaharu; Kozima, Yasuyuki; Suemori, Noboru; and Kouno, Takamitu, 4,694,351, Cl. 358-256.000.
Suemune, Ikuo: *See*—
Hirose, Masataka; Yamanishi, Masamichi; Osaka, Yukio; Ae, Tadashi; Ichikawa, Tadao; Yoshida, Noriyoshi; and Suemune, Ikuo, 4,672,577, Cl. 365-114.000.
Suemune, Toshiro: *See*—
Takano, Hirokuni; Suemune, Toshiro; and Shimizu, Tadao, 4,704,040, Cl. 400-121.000

; and Hui, Wen B. Electric high comb-clipper. 4,651,761, Cl. 132-148.000.

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Chaki; Suenaga, Hiroyoshi; Sakuyama, Hideo; Hanai, o; and Sawamura, Ichiroh, 4,675,055, Cl. 148-11.50F.
Chaki; Nishura, Masakazu; and Suenaga, Hiroyoshi, 985, Cl. 228-235.000.

toshi: *See*—
, Masaaki; and Suenaga, Hitoshi, 4,643,842, Cl. 99.670.
, Masaaki; and Suenaga, Hitoshi, 4,710,585, Cl. 560-64.000.

ymin: *See*—
, Takao; and Suenaga, Syomin, 4,659,527, Cl. 264-46.400.

o: *See*—
Yoshimi; and Sueoka, Eizo, 4,677,166, Cl. 525-334.100.

Hermann: *See*—
Hans; and Suerbaum, Hermann, 4,714,095, Cl. 138-98.000.
ans P.; Amort, Jurgen; Hannich, Horst; and van der Maas, s, to Dynamit Nobel Aktiengesellschaft. Method for per- rganic reactions in silicone oils. 4,649,220, 3-10-87, Cl. 00.

doph: *See*—
er, Willi; Schmitt, Guenter; and Suess, Christoph, 4,651,335, 78.200.000

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Masayuki; Sueta, Tadao; and Matano, Masaharu, 4,674,827, 90-96.120.
shita, to International Business Machines Corporation. Test r keyboard interface circuit. 4,692,691, 9-8-87, Cl. 324-

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A., Inc.: *See*—
, Houshang; Krug, Martin; and Bibl, Paul R., 4,679,616, 65.41.000.

Norbert: *See*—
r, Dieter; Suss, Werner; Markert, Gerhard; Suetterlin, ert; and Foll, Cornelia, 4,710,525, Cl. 523-201.000.
V. Door for slab-heating furnace and the like. 4,666,404, Cl. 432.250.000.

suke: *See*—
Tasutada; Sueyasu, Sosuke; and Futamura, Shoji, 4,705,609, 25-28.00D.
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Satoru; Sueyoshi, Susumu; and Nanba, Keiichiro, 4,635,222, 84-930.000.
adahiro, to Yazaki Corporation. Terminal retaining struc- connector. 4,711,508, 12-8-87, Cl. 439-595.000.
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, to Reliance Electric Company. Insulation displacement r terminal block. 4,652,070, 3-24-87, Cl. 339-97.00P.

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ta, Takao; Sakai, Shinji; Suga, Akira; and Tojo, Akihiko, 978, Cl. 358-213.000.
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ao: Cosmetic composition. 4,699,930, 10-13-87, Cl. 0
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; Sumio; Nakamura, Taku; Suga, Shuzo; and Kawamoto, ti, 4,647,528, Cl. 430-567.000.
uki: *See*—
ta, Masatoshi; Suga, Takayuki; and Yamanaka, Hiroshi, 310, Cl. 355-3.0DD.

Suga Test Instruments Co., Ltd.: *See*—
Suga, Shigeru; Chaki, Kiyoshi; Natori, Etsuji; Suga, Shigeo; and Mitamura, Katsuaki, 4,704,903, Cl. 73-159.000.

Suga, Yoshinori; Tanaka, Eiji; Enokido, Nobuo; and Maruyama, Yasuo, to Mitsubishi Chemical Industries Limited. 3-methylbutene-1 polymer composition and process for its production. 4,645,797, 2-24-87, Cl. 525-191.000.

Suga, Yuko: *See*—
Nishimura, Noribisa; Suga, Yuko; Miyachi, Takeshi; and Masaki, Yuichi, 4,634,227, Cl. 350-334.000.

Sugaar, Stephen. Cancer tests using tumor antigen generated lymphokines and compositions. 4,670,386, 6-2-87, Cl. 435-29.000.

Sugada, Sigeru: *See*—
Ohno, Shoji; and Sugada, Sigeru, 4,636,427, Cl. 428-246.000.

Sugahara, Katsuya: *See*—
Kawada, Shigeki; Amemiya, Yoichi; Sogabe, Masatoyo; and Sugahara, Katsuya, 4,663,550, Cl. 310-93.000.

Sugahara, Kazuyuki; Nishimura, Tadashi; Kusunoki, Shigeru; and Inoue, Yasuo, to Agency of Industrial Science and Technology. Method of forming single crystal layer on dielectric layer by controlled rapid heating. 4,714,684, 12-22-87, Cl. 437-19.000.

Sugahara, Kazuyuki: *See*—
Kusunoki, Shigeru; Nishimura, Tadashi; and Sugahara, Kazuyuki, 4,661,167, Cl. 148-1.500.
Nishimura, Tadashi; Sugahara, Kazuyuki; Kusunoki, Shigeru; and Inoue, Yasuo, 4,694,143, Cl. 219-388.000.

Sugahara, Koichi: *See*—
Ashizaki, Shigeya; Sugahara, Koichi; Muranoshi, Hideo; and Natsuhara, Masao, 4,701,677, Cl. 315-382.000.

Sugahara, Kouichi; Shimoi, Yoshio; and Kimoto, Kiyoharu, to Kubota Ltd. Intake manifold for a three-cylinder air-fuel mixture suction type engine. 4,712,519, 12-15-87, Cl. 123-52.00M.

Sugai Chemical Industry Co., Ltd.: *See*—
Tarugaki, Tenichi, 4,670,581, Cl. 560-108.000.

Sugai, Haruo: *See*—
Hashimoto, Koichi; Sugai, Haruo; Hara, Hikoyoshi; and Yamada, Norio, 4,686,967, Cl. 128-57.000.

Sugai, Hiroo: *See*—
Ohtomo, Fumio; Hori, Nobuo; Horikawa, Yoshio; Kimura, Kazuaki; and Sugai, Hiroo, 4,692,023, Cl. 356-5.000.
Tamaki, Hiroshi; Kondo, Fumitomo; and Sugai, Hiroo, 4,666,299, Cl. 356-138.000.

Sugai, Hiroshi: *See*—
Matsunaga, Ichiro; and Sugai, Hiroshi, 4,642,203, Cl. 252-631.000.

Sugai, Makio: *See*—
Ohtsuki, Akira; Komo, Ryozo; Kanno, Nobunori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Ioibe, Yukihiro; Tanaka, Kazushi; and Shimoura, Osamu, 4,708,909, Cl. 428-425.900.

Sugai, Shinzo; Yamane, Shigemi; and Kuze, Takashi, to Tokyo Shibaura Denki Kabushiki Kaisha. Lead frame and method for manufacturing the same. 4,640,723, 2-3-87, Cl. 148-411.000.

Sugai, Toshiji: *See*—
Takahashi, Toshihiro; Sueda, Noriyoshi; Tsuji, Masahiro; Tahara, Yoshiyuki; Koyama, Hiroyasu; Suzuki, Yoshikuni; Nagase, Masao; and Sugai, Toshiji, 4,659,833, Cl. 546-142.000.

Sugai, Yoshiro; and Kimura, Hiroyuki, to Pioneer Electronic Corporation. Noise eliminating circuit. 4,680,793, 7-14-87, Cl. 381-13.000.

Sugai, Yoshiro; and Kimura, Hiroyuki, to Pioneer Electronic Corporation. Sound multiplex receiver. 4,703,501, 10-27-87, Cl. 381-10.000.

Sugalski, Raymond K., to General Electric Company. Method for making electrochemical cell having cast-in-place insulator. 4,654,963, 4-7-87, Cl. 29-623.100.

Sugam, Richard J.; and Arnold, Herbert S. Method for the prediction and detection of condenser fouling. 4,686,853, 8-18-87, Cl. 73-61.200.

Sugama, Koichi: *See*—
Kato, Hiroshi; Kikunaga, Shoji; and Sugama, Koichi, 4,654,738, Cl. 360-108.000.

Sugama, Takayuki; Tabata, Hiroshi; and Honda, Tadanori, to Honda Giken Kogyo Kabushiki Kaisha. Lock structure for seat slide device. 4,712,759, 12-15-87, Cl. 248-429.000.

Sugama, Takayuki: *See*—
Higuchi, Kazuo; Sugama, Takayuki; Okuhara, Hisakazu; and Sasaki, Koichi, 4,682,789, Cl. 280-801.000.

Sugama, Toshifumi; Kukacka, Lawrence E.; and Carciello, Neal R., to United States of America, Energy. Ductile polyelectrolyte macromolecule-complexed zinc phosphate conversion crystal pre-coatings and topcoatings embodying a laminate. 4,659,395, 4-21-87, Cl. 148-6.15Z.

Sugano, Akira; and Yamanobe, Sachio, to Hitachi, Ltd.; and Hitachi Engineering Co., Ltd. Automatic control system for thermal power plant. 4,653,276, 3-31-87, Cl. 60-665.000.

Sugano, Akira: *See*—
Yamada, Hiroshi; Ioka, Michihiro; Sugano, Akira; Takita, Atsushi; Nagawara, Seitsu; and Fukui, Masayuki, 4,707,778, Cl. 364-132.000.

Sugano, Haruo: *See*—
Itoh, Seiga; Nishi, Tatsunari; Mizukami, Tamio; Matsumoto, Tadashi; Oka, Tetsuo; Taniguchi, Tadatsugu; and Sugano, Haruo, 4,686,191, Cl. 435-320.000.

Sugano, Hiroshi; Ishida, Ryuichi; and Yamamura, Michio, to Tanabe Seiyaku Co., Ltd. Dihydroorotic acid derivative and processes for preparing the same. 4,665,056, 5-12-87, Cl. 514-18.000.

Sugano, Hiroshi; Ishida, Ryuichi; and Yamamura, Michio, to Tanabe Seiyaku Co., Ltd. Novel peptides and processes for preparing the same. 4,711,878, 12-8-87, Cl. 514-18.000.

Sugano, Kazuhiko, to Nissan Motor Co., Ltd. Hydraulic control system with 4-2 timing arrangement for automatic transmission. 4,665,776, 5-19-87, Cl. 74-867.000.
Sugano, Kazuhiko; and Hayasaki, Koichi, to Nissan Motor Co., Ltd. Park lock device for use with automatic transmission. 4,667,783, 5-26-87, Cl. 192-4.00A.
Sugano, Kazuhiko: *See*—
Hayasaki, Koichi; and Sugano, Kazuhiko, 4,680,992, Cl. 74-869.000.
Sugano, Mamoru: *See*—
Kikumoto, Ryoji; Fukami, Harukazu; Nakao, Kenichiro; and Sugano, Mamoru, 4,684,651, Cl. 514-253.000.
Kikumoto, Ryoji; Fukami, Harukazu; Nakao, Kenichiro; and Sugano, Mamoru, 4,684,739, Cl. 549-350.000.
Sugano, Manabu: *See*—
Matsui, Fumio; and Sugano, Manabu, 4,663,267, Cl. 430-270.000.
Sugano, Shozo: *See*—
Yamaguchi, Noriaki; Sugano, Shozo; and Enomoto, Kayo, 4,707,371, Cl. 426-462.000.
Sugano, Takayuki: *See*—
Wada, Toshiaki; Nakaoka, Junichi; and Sugano, Takayuki, 4,636,420, Cl. 428-156.000.
Sugano, Takuo; Okabe, Yoichi; Miyake, Hideharu; and Fukaya, Naoki, to University of Tokyo. Unidirectional single-flux-quantum logic circuit. 4,678,945, 7-7-87, Cl. 307-476.000.
Sugano, Tomoharu: *See*—
Kimura, Nobuhiro; Sato, Norikazu; Takagi, Yutaka; and Sugano, Tomoharu, 4,689,639, Cl. 346-76.0PH.
Sugano, Toshiyuki: *See*—
Watanabe, Takahiko; Sugano, Toshiyuki; Yamamoto, Yasushi; and Murayama, Kunihiko, 4,673,541, Cl. 264-25.000.
Suganuma, Atsushi, to Victor Company of Japan, Ltd. Motor control circuit for video tape recorders. 4,672,274, 6-9-87, Cl. 318-254.000.
Suganuma, Ikuo: *See*—
Fukuda, Yasuhiro; and Suganuma, Ikuo, 4,636,724, Cl. 324-158.00R.
Suganuma, Kunio, to Citizen Watch Co., Ltd. Stepping motor for a belt drive head travelling mechanism for a floppy disk drive. 4,698,710, 10-6-87, Cl. 360-106.000.
Suganuma, Namio: *See*—
Makihara, Katsumi; Yanagi, Kenichi; Fukushima, Takeo; Suganuma, Namio; Samejima, Ichiro; and Takahashi, Seiichi, 4,678,851, Cl. 165-32.000.
Suganuma, Nobuo: *See*—
Gomi, Tetsuo; Suganuma, Nobuo; Ishii, Kazuo; and Sato, Hiroshi, 4,649,044, Cl. 424-49.000.
Nakashima, Syozi; Takahashi, Akinori; Suganuma, Nobuo; and Ito, Satoshi, 4,645,662, Cl. 424-52.000.
Suganuma, Ryosuke: *See*—
Jindo, Takeo; and Suganuma, Ryosuke, 4,674,333, Cl. 73-606.000.
Suganuma, Saburo, to Fuji Xerox Co., Ltd. Apparatus for producing a series of documents from reformatted input data and for checking the order of production. 4,677,551, 6-30-87, Cl. 364-401.000.
Suganuma, Tetsuya: *See*—
Kuroishi, Nobuhito; Motooka, Naoki; Suganuma, Tetsuya; and Manabe, Akira, 4,671,491, Cl. 251-368.000.
Suganuma, Tsuyoshi: *See*—
Sano, Tomohiko; Fujisawa, Noriyoshi; Fukuda, Masataka; and Suganuma, Tsuyoshi, 4,707,292, Cl. 252-174.160.
Suganuma, Yuichiro: *See*—
Kaiwa, Ryoichi; Suganuma, Yuichiro; and Yasuho, Takeo, 4,670,633, Cl. 200-314.000.
Sugarbaker, Paul H.: *See*—
Lyddy, James E., Jr.; Penland, William Z.; and Sugarbaker, Paul H., 4,690,131, Cl. 128-4.000.
Sugasawa, Fukashi, to Nissan Motor Co., Ltd. Roll-suppressive control system for automotive suspension system with variable damper. 4,652,010, 3-24-87, Cl. 280-707.000.
Sugasawa, Fukashi, to Nissan Motor Company, Limited. Automotive suspension control system with self-adjustment feature. 4,673,194, 6-16-87, Cl. 280-707.000.
Sugasawa, Fukashi: *See*—
Kuroki, Junsuke; and Sugasawa, Fukashi, 4,674,767, Cl. 280-707.000.
Kuroki, Junsuke; and Sugasawa, Fukashi, 4,686,626, Cl. 364-426.000.
Sugata, Akihiko: *See*—
Kusuroki, Gen; Meguro, Akira; Tokushima, Yasuo; Ohta, Koji; Kawai, Tadashi; and Sugata, Akihiko, 4,667,621, Cl. 118-687.000.
Sugata, Masao: *See*—
Kitahara, Nobuko; Takamatsu, Osamu; Kaneko, Tetsuya; and Sugata, Masao, 4,636,038, Cl. 350-339.00R.
Sugathan, Kenneth K.: *See*—
Horowitz, Carl; Ryan, John M.; Sanduja, Mohan L.; Sugathan, Kenneth K.; and Thottathil, Paulose P., 4,683,007, Cl. 106-308.00M.
Sugatsune Industrial Co., Ltd.: *See*—
Ishii, Hiroyuki, 4,686,740, Cl. 16-85.000.
Sugawa, Etsuko: *See*—
Miyazaki, Toshihiko; Sugawa, Etsuko; Tomida, Yoshinori; Munakata, Hirohide; Nishimura, Yukuo; and Eguchi, Ken, 4,674,436, Cl. 118-402.000.
Sugawa, Yoshihisa: *See*—
Matsumura, Masahiro; Ogasawara, Kenzi; Nakamoto, Atsuhiro; and Sugawa, Yoshihisa, 4,680,377, Cl. 528-322.000.
Sugawara, Hitosi: *See*—
Nambu, Yutaka; Sugawara, Hitosi; and Saiteh, Yasuo, 4,660,20[illegible] Cl. 34-30.000.
Sugawara, Katsuyuki, to Alps Electric Co., Ltd. Disk supporting device. 4,680,655, 7-14-87, Cl. 360-97.000.
Sugawara, Katuo: *See*—
Yamada, Minoru; Wajima, Motoyo; Masaki, Akira; Takahash[illegible] Akio; Nakanishi, Kenichirou; and Sugawara, Katuo, 4,710,[illegible] Cl. 361-414.000.
Sugawara, Kazutake: *See*—
Funada, Saburo; Yoda, Yoshiro; Yoshikawa, Shoji; Doi, Masaru; and Sugawara, Kazutake, 4,706,232, Cl. 369-13.000.
Sugawara, Kokichi; and Matsuzaka, Takayoshi, to Sony Corporation. Flexible magnetic disc cassette. 4,698,714, 10-6-87, Cl. 360-133.000.
Sugawara, Masayoshi; Nakamura, Yuichi; and Matsui, Akira, to Aki Engineering, Ltd. Balancing device for press. 4,674,357, 6-23-87, Cl. 74-590.000.
Sugawara, Masayoshi; Nakamura, Yuichi; and Matsui, Akira, to Aki Engineering, Ltd. Drive device for press. 4,697,466, 10-6-87, Cl. 74-27.000.
Sugawara, Mitsutoshi: *See*—
Nishijima, Kazunori; and Sugawara, Mitsutoshi, 4,694,204, Cl. 307-494.000.
Sugawara, Norio: *See*—
Natsumeda, Takeshi; Nawa, Motoyuki; and Sugawara, Norio, 4,677,904, Cl. 98-38.100.
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...a, Tohru; Nishimura, Atsushi; and Sugibuchi, Kazuo, ...3,597, Cl. 546-242.000.

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...oru. *See*—
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...imori. *See*—
...ata, Juheiji; Sugie, Toshiomi; Kobata, Fumihiro; and ...yama, Akira, 4,678,831, Cl. 524-496.000.

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Omori, Takashi; and Sugiki, Hiraku, 4,651,239, Cl. 360-77.000.

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Tabata, Kenichirou; Matsudaira, Nobufumi; and Sugiki, Shozo, 4,663,224, Cl. 428-246.000.

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Koga, Mitsuyuki; Hirai, Kenichiro; Sugimae, Toshio; and Fukushige, Setsuo, 4,713,405, Cl. 523-212.000.

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Sugimori, Shigeru; and Kojima, Tetsuhiko, to Chisso Corporation. High temperature liquid-crystalline ester compounds. 4,701,547, 10-20-87, Cl. 560-102.000.

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- Goto, Yasuyuki; Ogawa, Tetsuya; and Sugimori, Shigeru, 4,695,398, Cl. 252-299.500.
- Isoyama, Toyoshiro; Ogawa, Tetsuya; and Sugimori, Shigeru, 4,680,137, Cl. 252-299.620.
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- Kitano, Kisei; Ogawa, Tetsuya; Furukawa, Yoshito; Yoshida, Naoyuki; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,684,476, Cl. 252-299.610.
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Sugimoto, Hidehiko, to Mitsubishi Denki Kabushiki Kaisha. Three-phase-to-three-phase power converter. 4,675,802, 6-23-87, Cl. 363-164.000.

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Sugimoto, Hironobu: *See*—
- Ando, Tsuneo; Kasuya, Kazusato; Asada, Yukitoshi; and Sugimoto, Hironobu, 4,705,002, Cl. 123-440.000.

Sugimoto, Hiroshi; and Fukada, Koichi, to Mitsubishi Denki Kabushiki Kaisha. Abnormal noise detector for gear units. 4,649,743, 3-17-87, Cl. 73-162.000.

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Sugimoto, Hiroshi, to Tokyo Shibaura Denki Kabushiki Kaisha. Nuclear magnetic resonance diagnostic apparatus. 4,656,423, 4-7-87, Cl. 324-309.000.

Sugimoto, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Trolley apparatus for transmitting light signals. 4,675,521, 6-23-87, Cl. 250-227.000.

Sugimoto, Hiroshi: *See*—
- Matsuyama, Isamu; and Sugimoto, Hiroshi, 4,656,709, Cl. 358-100.000.
- Ohba, Masahiro; Sugimoto, Hiroshi; Kamiya, Toru; Yamazaki, Toru; Tanabe, Hidemichi; Hirano, Satoshi; Namba, Hideaki; Matsui, Katsumasa; and Miura, Hisahiro, 4,668,873, Cl. 307-9.000.

Sugimoto, Hitoshi: *See*—
- Ishii, Masami; Sugimoto, Hitoshi; Ozawa, Mitsuhiro; and Onoda, Yoshitomi, 4,663,957, Cl. 72-179.000.
- Kayakabe, Nobuhiro; Sugiura, Tadashi; and Sugimoto, Hitoshi, 4,648,163, Cl. 29-159.00R.

Sugimoto, Junichi: *See*—
- Ito, Takaaki; Mori, Eiji; Utanshi, Koji; Miyazaki, Shinji; and Sugimoto, Junichi, 4,715,509, Cl. 220-86.00R.

Sugimoto, Kazuo, to Sanden Corporation. Rotation preventing device for an orbiting member of a fluid displacement apparatus. 4,645,435, 2-24-87, Cl. 418-55.000.

Sugimoto, Kazutoshi: *See*—
- Kakino, Shigeru; Moriyama, Hideo; Sugimoto, Kazutoshi; and Motohira, Tsukasa, 4,671,160, Cl. 86-20.100.
- Sakaue, Yoshinori; and Sugimoto, Kazutoshi, 4,665,441, Cl. 358-280.000.

Sugimoto, Kenichi: *See*—
- Tanabe, Yoshimitsu; Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Sugimoto, Kenichi; and Yamaguchi, Akihiro, 4,701,567, Cl. 568-719.000.
- Yamaguchi, Keizaburo; Sugimoto, Kenichi; Tanabe, Yoshimitsu; Yamazaki, Midori; and Yamaguchi, Akihiro, 4,671,890, Cl. 252-182.000.
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Sugimoto, Kenji, to Citizen Watch Co., Ltd. Bar stock feeder. 4,638,693, 1-27-87, Cl. 82-2.500.

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Sugimoto, Koichi: *See*—
- Hamada, Toyohide; Sugimoto, Koichi; Koizumi, Kiyohide; and Arai, Shinichi, 4,674,947, Cl. 414-735.000.

Sugimoto, Makoto, to Sanshin Kogyo Kabushiki Kaisha. Frame body of motorcycles. 4,694,929, 9-22-87, Cl. 180-311.000.

Sugimoto, Mamoru: *See*—
- Ogawa, Tomoya; Sugimoto, Mamoru; Shitori, Yoshiyasu; and Ito, Masayoshi, 4,694,076, Cl. 536-17.200.

Sugimoto, Masahiro; Wakasugi, Yasumasa; and Harada, Shigeki, to Fujitsu Limited. Heatsink package for flip-chip IC. 4,691,86, 10-6-87, Cl. 357-81.000.

Sugimoto, Masahiro: *See*—
- Wakabayashi, Tetsushi; Sugimoto, Masahiro; and Muratake, Kiyoshi, 4,688,077, Cl. 357-81.000.

Sugimoto, Masaru: *See*—
- Sadakata, Nobuyuki; Ikeno, Yoshimitsu; Sugimoto, Masaru; and Kohno, Osamu, 4,665,611, Cl. 29-599.000.

Sugimoto, Masatoshi: *See*—
- Yagishita, Shigeki; Hosoya, Kiyoshi; Okumoto, Tadaki; and Sugimoto, Masatoshi, 4,650,834, Cl. 525-386.000.

Sugimoto, Michio: *See*—
- Morimoto, Nobuyuki; Takatsu, Kozo; and Sugimoto, Michio, 4,695,440, Cl. 423-328.000.

Sugimoto, Naohiko; Kojima, Tetsuro; and Ishimaru, Shingo, to Fuji Photo Film Co., Ltd. Silver halide photographic light-sensitive material containing ultraviolet ray absorbing polymer latex. 4,645,735, 2-24-87, Cl. 430-512.000.

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- Sugihara, Mitsuru; and Sugimoto, Naohiko, 4,695,354, Cl. 204-180.100.
- Yokoyama, Shigeki; Inayama, Takayuki; Sugimoto, Naohiko; and Naoi, Takashi, 4,677,050, Cl. 430-536.000.

Sugimoto, Naotsugu; Torii, Kazutoshi; Takahashi, Yuka; Mizu, Hideo; Watanabe, Yuzo; Yamamoto, Kohei; and Kaimura, Tesuki, to Takara Shuzo Co., Ltd. Soybean milk-containing alcoholic beverages. 4,656,044, 4-7-87, Cl. 426-592.000.

Sugimoto, Naoyuki, to Takigen Seizou Co. Ltd. Double-acting lifting device for joint control. 4,704,884, 11-10-87, Cl. 70-337.000.

Sugimoto, Norihiko; Inada, Shunji; and Usami, Nagatoshi, to Hitachi, Ltd. Multi-network system. 4,680,756, 7-14-87, Cl. 370-88.000.

Sugimoto, Norihiko: *See*—
- Murakami, Toshiyuki; Sugimoto, Norihiko; and Ogawa, Nao, 4,680,757, Cl. 370-89.000.
- Nakamura, Kazunori; Yamaga, Mitsuhiro; Yoshino, Ryozo; and Sugimoto, Norihiko, 4,675,884, Cl. 375-87.000.

Sugimoto, Ryuji: *See*—
- Takahashi, Nobuyuki; Sugimoto, Ryuji; and Shirai, Yasuyo, 4,643,629, Cl. 414-331.000.

Sugimoto, Sadao: *See*—
- Ohe, Masayuki; Ogawa, Satoshi; Sugimoto, Sadao; Yamada, Masahiro; and Fujino, Katsuhiro, 4,654,292, Cl. 430-197.000.

Sugimoto, Shigeo: *See*—
- Kunugi, Yoshifumi; Sugimoto, Shigeo; Kohno, Kyoji; Oshi, Tomihisa; and Machizawa, Kenji, 4,655,053, Cl. 62-476.000.
- Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Ozumi, Kiyoshi; Sasaki, Toshi; and Fukui, Shigeho, 4,653,163, Cl. 29-157.30R.
- Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; and Ozumi, Kiyoshi, 4,690,211, Cl. 165-177.000.
- Takahashi, Kenji; Kuwahara, Heikichi; Yanagida, Takehiko; Nakayama, Wataru; Ozumi, Kiyoshi; and Sugimoto, Shigeo, 4,715,436, Cl. 165-133.000.

Sugimoto, Shigeyuki; Kato, Masayuki; and Chonan, Katsuhiko, to Mitsubishi Denki Kabushiki Kaisha. Power failure stop circuit for a converter. 4,678,980, 7-7-87, Cl. 318-759.000.

Sugimoto, Shun-ichiro: *See*—
- Noto, Yasuo; and Sugimoto, Shun-ichiro, 4,708,220, Cl. 180-142.000.

Sugimoto, Tadao; and Ikeda, Hideo, to Fuji Photo Film Co., Ltd. Silver halide photographic light-sensitive materials. 4,656,120, 4-7-87, Cl. 430-434.000.

Sugimoto, Tadao; and Yamada, Sumito, to Fuji Photo Film Co., Ltd. Silver halide photographic light-sensitive material. 4,665,012, 5-12-87, Cl. 430-502.000.

Sugimoto, Tadao; and Hayakawa, Toshiaki, to Fuji Photo Film Co., Ltd. Core/shell silver halide photographic emulsion and method for production thereof. 4,713,318, 12-15-87, Cl. 430-567.000.

Takao: See—
ka, Teruo; Sugimoto, Takao; and Hayakawa, Kizo, ,986, Cl. 73-117.300.
Takashi: See—
o, Koichi; Kamei, Kiyoshi; Murakami, Yotaro; Sugimoto, shi; Nishimura, Takashi; and Takashima, Takahiro, ,477, Cl. 148-402.000.
Takayuki: Okuzawa, Yoshiyuki; and Suzuki, Nobuo, to dustries Ltd. Multi-room type air conditioner. 4,644,756, Cl. 62-160.000.
Takeshi: See—
, Shigezo; Sugimoto, Takeshi; Sakano, Kozaburo; Ohkubo, michi; and Matsuo, Junichi, 4,649,004, Cl. 264-85.000.
Tamio: See—
, Takahisa; Fukami, Shoji; Maruwa, Yasuharu; Itoh, yuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masato- ,666,380, Cl. 418-55.000.
, Takahisa; Fukami, Shoji; Maruwa, Yasuharu; Itoh, yuki; Sugimoto, Tamio; Ono, Tetsuo; and Mukai, Masato- ,696,084, Cl. 29-156.40R.
Yasuhiro, to Kabushiki Kaisha Toshiba. Sample and hold ,636,659, 1-13-87, Cl. 307-353.000.
Yasuhiro: See—
Hiroyuki; Nakamura, Michinori; and Sugimoto, Yasuhiro ,750, Cl. 307-475.000.
Yukio; Umeno, Hiroshi; Sugimoto, Yasuhiro; and Oka, o, 4,692,123, Cl. 440-77.000.
a, Kazunori; and Sugimoto, Yasuhiro, 4,713,600, Cl. 351.000.
Yoshiaki: See—
, Tadao; Kamio, Toru; and Sugimoto, Yoshiaki, 4,643,703, 74-242.000.
Yoshihide: See—
Hiromitsu; Miyashiro, Takeshi; and Sugimoto, Yoshihide, ,490, Cl. 52-184.000.
Yoshimasa; Torikai, Toshitaka; and Taguchi, Kenko, to NEC ron. Avalanche photodiode. 4,651,187, 3-17-87, Cl. 0.
Yoshimi: See—
a, Tsutae; Miyashita, Yoshinori; Sugimoto, Yoshimi; Sei, o; and Andoh, Shizuo, 4,697,123, Cl. 315-169.400.
Akihiko: See—
mura, Takao; and Sugimura, Akihiko, 4,645,304, Cl. 336.000.
Hiroshi: See—
ma, Makoto; Sugimura, Hiroshi; Machida, Naoyoshi; and a, Yoshiichi, 4,715,121, Cl. 30-253.000.
Masao: See—
i, Katsutoshi; Takahashi, Tsuneo; Yasui, Shinichiro; and mura, Masao, 4,663,629, Cl. 340-995.000.
Nobuyuki: Pulsation absorbing means having one or more oes divided into two parts each displays suitable function- ,1-6-87, Cl. 138-30.000.
Nobuyuki: Pulsation damping means incorporating therein cylinder having laminated resilient valve shoes. 4,705,077, , Cl. 138-30.000.
Tatsuo: See—
a, Yuuji; Satoh, Isao; and Sugimura, Tatsuo, 4,695,993, Cl. 54.000.
Tatsuo; Satoh, Isao; Ichinose, Makoto; and Kuroki, Yuzuru, shita Electric Industrial Co., Ltd. Apparatus for detecting recting errors on product codes. 4,653,051, 3-24-87, Cl. 00.
Yukio: See—
ura, Tetsuo; Sugimura, Yukio; Tanaka, Teruo; Hashimoto, hihiko; Iino, Kimio; and Sugawara, Shunichi, 4,639,441, Cl. 195.000.
Yutaka: See—
ta, Tamotsu; Suginaka, Yutaka; and Ohtomo, Hideo, 3,583, Cl. 426-573.000.
ko: See—
, Yutaka; Sugino, Akio; Sugaya, Kazuo; and Kimizima, uo, 4,668,288, Cl. 75-93.00R.
, Yutaka; Sugino, Akio; Sugaya, Kazuo; and Kimizima, uo, 4,714,104, Cl. 164-504.000.
uromu: See—
Hsiang-Fu; Sugino, Hiromu; and Honda, Susumu, 4,681,930, 530-351.000.
asaru: See—
o, Yousuke; Yamaguchi, Hirotsugu; Fukushima, Naoto; o, Sunao; Sugino, Masaru; Takehara, Shin; and Matsui, ichi, 4,693,491, Cl. 280-688.000.
ia S., to Santa Barbara Research Center. Optical integrator r intensity modification of Gaussian beam. 4,656,562, 4-7-87, 12.000.
ikashi: See—
ta, Hirokazu; Itoh, Kunio; Sugino, Takashi; Wada, Masaru; imoto, Iwao; and Fujimoto, Kazuo, 4,651,322, Cl. 45.000.
a, Susumu; Sugino, Takashi; and Hirose, Naoya, 4,679,074, 358-80.000.
ikuya: See—
ama, Hajime; Aoki, Osamu; Nishijima, Shigetoshi; Horiuchi, ao; Sugino, Takuya; and Takagi, Shuichi, 4,672,940, Cl. 590.000.
Sugino, Yasuo: See—
Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.
Sugino, Yoshihide; Shiote, Yoshimori; and Yamaki, Kazuyoshi, to Yamatake-Honeywell Co., Ltd. Angular and positional deviation adjusting mechanism of a robot hand. 4,661,037, 4-28-87, Cl. 414-729.000.
Sugino, Yoshito; and Yamamoto, Iwao, to Sugiyo Co., Ltd. Simulated lobster meat and process for preparing same. 4,652,455, 3-24-87, Cl. 426-104.000.
Suginoya, Mitsuru; Iwasa, Koji; Kamamori, Hitoshi; Sano, Yutaka; and Terada, Yumiko, to Seiko Instruments & Electronics Ltd. Multi-color display device and process of fabricating same. 4,639,088, 1-27-87, Cl. 350-339.00F.
Suginoya, Mitsuru; Iwasa, Koji; Kamamori, Hitoshi; Sano, Yutaka; and Terada, Yumiko, to Seiko Instruments & Electronics Ltd. Matrix type multi-color display device. 4,704,559, 11-3-87, Cl. 315-169.100.
Suginoya, Mitsuru: See—
Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji, 4,670,185, Cl. 252-513.000.
Suginuma, Atsushi: See—
Kagohata, Tsuneo; Chonan, Kenichi; Suginuma, Atsushi; Tezuka, Akira; and Usui, Hideo, 4,649,709, Cl. 62-89.000.
Sugio, Akitoshi; Okabe, Masao; and Kobayashi, Toshihiko, to Mitsubishi Gas Chemical Company, Inc. Polyphenylene ether resin composition. 4,663,376, 5-5-87, Cl. 524-195.000.
Sugio, Akitoshi; Kawaki, Takao; and Hayashi, Katsushige, to Mitsubishi Gas Chemical Company, Inc. Photosensitive polyimide precursor and process for producing the same. 4,670,535, 6-2-87, Cl. 528-220.000.
Sugio, Akitoshi; Okabe, Masao; and Amagai, Akikazu, to Mitsubishi Gas Chemical Company, Inc. Polyphenylene ether resin composition having excellent fire retardancy. 4,683,255, 7-28-87, Cl. 524-151.000.
Sugio, Akitoshi; Okabe, Masao; Mizukami, Masamichi; and Sekine, Yoshihiko, to Mitsubishi Gas Chemical Company, Inc. Silylated polyphenylene ether membrane for gas separation. 4,686,131, 8-11-87, Cl. 428-158.000.
Sugioka, Takami, to Teijin Seiki Co., Ltd. Guide device for separating a plurality of yarn passages. 4,657,205, 4-14-87, Cl. 242-157.100.
Sugioka, Takami, to Teijin Seiki Co., Ltd. Monitor of abnormality in a yarn winding apparatus. 4,685,629, 8-11-87, Cl. 242-18.00R.
Sugioka, Takami: See—
Miyake, Yuzuru; Nohara, Isao; Sugioka, Takami; Onishi, Susumu; and Ueno, Toshiyuki, 4,715,548, Cl. 242-18.00R.
Sugisaki, Noritsugu; and Iizuka, Tetsuya, to Koike Sanso Kogyo Co., Ltd. Gas cutting torch. 4,684,621, 5-12-87, Cl. 431-346.000.
Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, to House Food Industrial Company Ltd. Low pressure microwave drying apparatus. 4,637,145, 1-20-87, Cl. 34-1.000.
Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; Sengoku, Koji; and Nagatome, Yoshiaki, to House Food Industrial Company, Limited. Process for preparing Tofu. 4,645,681, 2-24-87, Cl. 426-634.000.
Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, to House Food Industrial Co., Ltd. Method of producing a dehydrated food product. 4,664,924, 5-12-87, Cl. 426-242.000.
Sugisawa, Ko; Matsumura, Yasushi; Sengoku, Koji; and Nagatome, Yoshiaki, to House Food Industrial Company Limited. Process for pueparing tofu charged into a container. 4,678,677, 7-7-87, Cl. 426-634.000.
Sugisawa, Ko; Yamamoto, Masanori; Yasuda, Atsushi; Nomura, Yukihiro; and Amano, Toshio, to House Food Industrial Co., Ltd. Method for treating aqueous solution of soybean protein with enzymes. 4,687,739, 8-18-87, Cl. 435-69.000.
Sugisawa, Ko; Sekiguchi, Kazuya; Taguchi, Masao; Nakatani, Masayuki; and Iwata, Hitoshi, to House Food Industrial Co., Ltd. Apparatus for producing sterile air. 4,690,699, 9-1-87, Cl. 55-267.000.
Sugisawa, Ko; Yamamoto, Masanori; and Nakamaga, Ryosuke, to House Food Industrial Company Limited. Container heated by microwave oven. 4,703,149, 10-27-87, Cl. 219-10.55E.
Sugisawa, Kunio: See—
Sato, Atsushi; Murai, Yoshikazu; Yamaguchi, Tatsuo; Mochizuki, Kanji; and Sugisawa, Kunio, 4,692,270, Cl. 252-353.000.
Sugisawa, Taijiro; and Nishiyama, Akio, to Mitsubishi Kinzoku Kabushiki Kaisha. Surface-coated wear-resistant member of cermet and process for producing same. 4,693,944, 9-15-87, Cl. 428-698.000.
Sugise, Ryoji: See—
Iwata, Fumio; Harada, Katsumasa; and Sugise, Ryoji, 4,665,172, Cl. 540-544.600.
Sugishima, Eiichi: See—
Kato, Masayuki; and Sugishima, Eiichi, 4,686,480, Cl. 328-62.000.
Sugishima, Kenji; and Nakagawa, Kenji, to Fujitsu Limited. Electron beam exposure method and apparatus. 4,678,919, 7-7-87, Cl. 250-491.100.
Sugishima, Kenji; and Yasuda, Hiroshi, to Fujitsu Limited. Frictionless supporting apparatus. 4,684,315, 8-4-87, Cl. 414-749.000.
Sugishita, Susumu: See—
Sakamaki, Hiroshi; Sugishita, Susumu; Horikoshi, Yukio; and Yanagihashi, Kikuji, 4,648,818, Cl. 418-173.000.
Sakamaki, Hiroshi; Sugishita, Susumu; and Horikoshi, Yukio, 4,648,819, Cl. 418-173.000.
Sakamaki, Hiroshi; Sugishita, Susumu; Horikoshi, Yukio; Okamura, Hiroshi; and Shimizu, Kenji, 4,649,612, Cl. 29-156.40R.

Sakamaki, Hiroshi; Sugishita, Susumu; and Horikoshi, Yukio, 4,657,495, Cl. 418-82.000.
Sakamaki, Hiroshi; Sugishita, Susumu; and Horikoshi, Yukio, 4,681,519, Cl. 418-152.000.
Sugita, Hiroshi; Iwasa, Tadanobu; Yasukawa, Takemasa; and Aritake, Masanori, to Toyoda Goseki Co., Ltd. Wiper blade rubber. 4,638,525, 1-27-87, Cl. 15-250.360.
Sugita, Hiroshi; Yasukawa, Takemasa; and Aritake, Masanori, to Toyoda Gosei Co., Ltd. Wiper blade. 4,658,463, 4-21-87, Cl. 15-250.360.
Sugita, Hiroshi: *See*—
Yasukawa, Takemasa; Sugita, Hiroshi; Aritake, Masanori; and Hayashi, Keizo, 4,669,144, Cl. 15-250.360.
Sugita, Jun: *See*—
Hamano, Hideo; Sugita, Jun; and Watanabe, Takashi, 4,712,900, Cl. 354-400.000.
Sugita, Katsuhiko, to Tsudakoma Corp. Weft insertion control method and device for carrying out the same. 4,702,285, 10-27-87, Cl. 139-452.000.
Sugita, Kazuhiko, to Mitsubishi Denki Kabushiki Kaisha. Curvilinear escalator. 4,681,206, 7-21-87, Cl. 198-328.000.
Sugita, Kazuhiko: *See*—
Namba, Yoshiharu; Suzuki, Hiroshi; and Sugita, Kazuhiko, 4,700,510, Cl. 51-134.50R.
Sugita, Masanori: *See*—
Otake, Noboru; Seto, Haruo; Sasaki, Tetsuo; Sugita, Masanori; and Hiramoto, Shigeru, 4,649,135, Cl. 514-183.000.
Sugita, Masao: *See*—
Bandou, Masaaki; Sugita, Masao; and Marumo, Takachi, 4,706,487, Cl. 72-355.000.
Sugita, Masaya: *See*—
Iino, Tadashi; Nagashima, Yoshikazu; and Sugita, Masaya, 4,711,544, Cl. 353-14.000.
Sugita, Michiyuki: *See*—
Takahashi, Katsuhiko; and Sugita, Michiyuki, 4,692,483, Cl. 523-218.000.
Sugita, Minoru; Nakatsuji, Teruyuki; Fujisaki, Tadashi; Hiraga, Hisao; Nishimoto, Takashi; and Futagawa, Minoru, to Shimizu Construction Co., Ltd.; and Daimhon Glass Industry Co., Ltd. Concrete reinforcing unit. 4,706,430, 11-17-87, Cl. 52-309.160.
Sugita, Mitsuyuki; and Hoshino, Isamu, to Seikosha Co., Ltd. Planar type thickness shear mode quartz oscillator. 4,710,731, 12-1-87, Cl. 331-158.000.
Sugita, Mitsuyuki: *See*—
Moritani, Nakanobu; Sugita, Mitsuyuki; Hoshino, Isamu; Yanagi, Hirofumi; Ikeno, Hitoshi; and Kouno, Tetsuro, 4,709,218, Cl. 331-116.0FE.
Sugita, Naoki: *See*—
Kushi, Naoto; Okano, Hiroshi; Kobayashi, Nobuyuki; and Sugita, Naoki, 4,696,275, Cl. 123-478.000.
Masuda, Senichi; and Sugita, Naoki, 4,715,870, Cl. 55-132.000.
Sugita, Ryuji; Honda, Kazuyoshi; Nishida, Hiroshi; and Noda, Kyoji, to Matsushita Electric Industrial Co., Ltd. Vertical magnetic recording medium. 4,687,712, 8-18-87, Cl. 428-611.000.
Sugita, Shinichi: *See*—
Teraji, Tsutomu; Kawada, Kazushige; Takeuchi, Toru; Sugita, Shinichi; Adachi, Toshikazu; and Yaqi, Hideo, 4,650,522, Cl. 106-314.000.
Sugita, Takehiro: *See*—
Sakamoto, Akira; Fukami, Takeshi; Sugita, Takehiro; and Toyoshima, Masakatsu, 4,683,586, Cl. 380-48.000.
Sugita, Terumitsu; Shinozuka, Hideo; and Murayama, Koji, to Seiko Seiki Kabushiki Kaisha; and Nihon Radiator Co., Ltd. Rotary type gas compressor. 4,708,598, 11-24-87, Cl. 417-295.000.
Sugita, Yasutoshi, to Canon Kabushiki Kaisha. Apparatus for image posture correction. 4,682,242, 7-21-87, Cl. 358-285.000.
Sugita, Yasutoshi, to Canon Kabushiki Kaisha. Apparatus for reading an arbitrarily oriented image. 4,705,958, 11-10-87, Cl. 250-578.000.
Sugita, Yasutoshi: *See*—
Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi, 4,658,299, Cl. 358-256.000.
Sugita, Yoshiji: *See*—
Genda, Yoshikazu; Muto, Hiroyuki; Nakayama, Kiyoharu; Miyazaki, Yoshiaki; and Sugita, Yoshiji, 4,680,413, Cl. 548-526.000.
Sugita, Yutaka: *See*—
Imura, Ryo; Ikeda, Tadashi; and Sugita, Yutaka, 4,701,385, Cl. 428-693.000.
Ohta, Norio; Okamine, Shigenori; Sugita, Yutaka; Seo, Yosuke; and Tamura, Takashi, 4,707,755, Cl. 360-114.000.
Sugitani, Hiroshi, to Canon Kabushiki Kaisha. Ink-jet recording head with an elastic ink tank in a sealed casing held at a partial vacuum and having a breakable seal. 4,689,642, 8-25-87, Cl. 346-140.00R.
Sugitani, Hiroshi; Ozawa, Masakazu; Matsuda, Hiroto; Ikeda, Masami; and Matsumoto, Haruyuki, to Canon Kabushiki Kaisha. Method of making an ink jet head involving in-situ formation of an orifice plate. 4,701,766, 10-20-87, Cl. 346-1.100.
Sugitani, Hiroshi: *See*—
Yokota, Masami; Sugitani, Hiroshi; and Inamoto, Tadayoshi, 4,666,823, Cl. 430-320.000.
Sugitani, Kazeushi: *See*—
Rokkaku, Tadashi; and Sugitani, Kazeushi, 4,664,572, Cl. 409-137.000.
Sugitani, Michio: *See*—
Shirai, Naotake; and Sugitani, Michio, 4,654,409, Cl. 528-26.000.
Sugitani, Yuji; and Tamaoki, Naohiro, to Nippon Kokan Kabushiki Kaisha. Automatic groove tracing control method for arc welding. 4,639,573, 1-27-87, Cl. 219-124.220.
Sugitani, Yuji; and Tamaoki, Naohiro, to Nippon Kokan Kabushiki Kaisha. Method and an apparatus for automatically setting the weaving reversing position. 4,670,642, 6-2-87, Cl. 219-125.120.
Sugitani, Yuji; Kobayashi, Yukio; and Murayama, Masatoshi, to Nippon Kokan Kabushiki Kaisha. Groove tracing control method for high-speed rotating arc fillet welding. 4,704,513, 11-3-87, Cl. 219-125.120.
Sugiura, Eiichi. Impeller for rotary fluid machine. 4,666,373, 5-19-87, Cl. 416-185.000.
Sugiura, Eiichi. Apparatus for producing compost. 4,666,854, 5-19-87, Cl. 435-313.000.
Sugiura, Fumio: *See*—
Chiba, Yoshinori; Ishida, Keiichi; and Sugiura, Fumio, 4,690,456, Cl. 297-284.000.
Sugiura, Haruyuki, to Kitagawa Industries Co., Ltd. Synthetic resin spacer for connecting parallel plates at predetermined space. 4,646,383, 3-3-87, Cl. 16-225.000.
Sugiura, Haruyuki, to Kitagawa Industries Co., Ltd. Cable clamp. 4,669,688, 6-2-87, Cl. 248-74.200.
Sugiura, Haruyuki: *See*—
Matsui, Kazuhiro; Tanigawa, Mitsuru; and Sugiura, Haruyuki, 4,697,303, Cl. 16-112.000.
Sugiura, Hikoroku. Mixer for continuously mixing fluids. 4,712,921, 12-15-87, Cl. 366-151.000.
Sugiura, Hiroaki, to Yoshino Kogyosho Co., Ltd. Blow-molded bottle-shaped container of biaxially oriented thermoplastic synthetic resin with wide port and method of molding the same. 4,641,758, 2-10-87, Cl. 215-1.00C.
Sugiura, Hiroshi: *See*—
Hayakawa, Toshihiro; and Sugiura, Hiroshi, 4,653,386, Cl. 98-40.280.
Sugiura, Hiroyuki, to Diesel Kiki Co., Ltd. Air conditioner for automotive vehicles capable of cooling intake air supplied to an internal combustion engine. 4,683,725, 8-4-87, Cl. 62-199.000.
Sugiura, Hiroyuki, to Diesel Kiki Co., Ltd. Oil returning mechanism of evaporator for air conditioner. 4,715,196, 12-29-87, Cl. 62-468.000.
Sugiura, Izuru: *See*—
Hirai, Hidefumi; Komiyama, Makoto; and Sugiura, Izuru, 4,663,473, Cl. 562-475.000.
Sugiura, June: *See*—
Fukuda, Minoru; Takahashi, Hideaki; Sugiura, June; Tsuchiya, Fumio; and Kihara, Toshimasa, 4,691,298, Cl. 365-189.000.
Komori, Kazuhiro; Kuroda, Kenichi; and Sugiura, June, 4,663,645, Cl. 357-23.500.
Shimizu, Shinji; Komori, Kazuhiro; Kosa, Yasunobu; and Sugiura, June, 4,651,406, Cl. 29-571.000.
Sugiura, Juro: *See*—
Hirabayashi, Yasuyuki; and Sugiura, Juro, 4,706,145, Cl. 360-118.000.
Sugiura, Katsuhiko, to Fuji Jukogyo Kabushiki Kaisha. Exhaust gas recirculation system. 4,683,863, 8-4-87, Cl. 123-568.000.
Sugiura, Kazuo: *See*—
Hashimoto, Takatsugu; Maeflara, Akihiro; Tomita, Seisoke; Funahashi, Yuichi; Watanabe, Junichiro; Sugiura, Kazuo; and Matsumoto, Hironori, 4,714,734, Cl. 524-496.000.
Watanabe, Junichiro; Funahashi, Yuichi; Sugiura, Kazuo; and Matsumoto, Hironori, 4,640,968, Cl. 528-32.000.
Watanabe, Junichiro; Funahashi, Yuichi; Sugiura, Kazuo; and Matsumoto, Hironori, 4,657,965, Cl. 524-506.000.
Sugiura, Kengo: *See*—
Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Taiki; Suzuki, Atsushi; and Sugiura, Kengo, 4,680,964, Cl. 73-204.000.
Sugiura, Kenji: *See*—
Arakawa, Kazumi; Hirao, Toshiyuki; Sugiura, Kenji; Kuroki, Satoshi; Hiraki, Sei; Suzuki, Takao; and Nakai, Ken, 4,640,336, Cl. 164-440.000.
Sugiura, Masahiro; and Yoshida, Michiyuki, to Sakata Shokai, Ltd. Apparatus for mounting a relief plate for letterpress printing, 4,707,930, 11-24-87, Cl. 33-623.000.
Sugiura, Masahiro: *See*—
Suzuki, Takatoshi; Takada, Yasuo; Sakakibara, Yuji; Sugiura, Masahiro; Hayashi, Hiroaki; and Kamigaito, Osami, 4,691,756, Cl. 164-361.000.
Sugiura, Masamichi; and Kitagawa, Tsuneo, to Minolta Camera Kabushiki Kaisha. Preset counter apparatus for copying machines and the like. 4,646,330, 2-24-87, Cl. 377-15.000.
Sugiura, Masamichi: *See*—
Takeda, Katsuhiko; and Sugiura, Masamichi, 4,641,957, Cl. 355-58.000.
Sugiura, Motonobu: *See*—
Tsuge, Hiroshi; Fujiwara, Akinori; Yoshitsugu, Noritada; and Sugiura, Motonobu, 4,688,849, Cl. 297-250.000.
Sugiura, Noboru: *See*—
Doi, Shunichi; Sugiura, Noboru; Hayashi, Yasutaka; and Yamamoto, Yuzo, 4,700,971, Cl. 280-707.000.
Kashimura, Yuichi; Sugiura, Noboru; Ishii, Toshio; Shida, Masumi; Teragakiuchi, Akira; and Mouri, Yasunori, 4,676,212, Cl. 123-425.000.
Mouri, Yasunori; and Sugiura, Noboru, 4,710,881, Cl. 364-431.080.
Sugiura, Rikio: *See*—
Kubota, Akihiro; Aoki, Tsuyoshi; Ono, Michio; and Sugiura, Rikio, 4,698,660, Cl. 357-70.000.

buro; Kanada, Kenji; Demukai, Noboru; and Okamoto, o Daido Tokushuko Kabushiki Kaisha. Scrap melting ,706,258, 11-10-87, Cl. 373-2.000.

buro: *See—*
, Kiyohide; Sugiura, Saburo; and Demukai, Noboru, ,899, Cl. 266-140.000.

danobu: *See—*
Yoshihiro; Sugiura, Sadanobu; and Tokunaga, Kunishige. ,844, Cl. 222-591.000.

oshi; Tanaka, Toshio; and Kurozumi, Seizi, to Teijin Lim- ylidene-2-halo-4-substituted-2-cyclopentenone and process ction thereof. 4,689,426, 8-25-87, Cl. 560-121.000.

tsohi: *See—*
, Atsuo; Sugiura, Satsohi; Kurozumi, Seizi; and Noyori, , 4,711,895, Cl. 514-530.000.

iro; Mori, Yoshikuni; Yoshida, Masatoshi; and Oshiumi, to Nippon Shokubai Kagaku Kogyo Co. Ltd. Reactive method for manufacturing thereof and use thereof. , 4-7-87, Cl. 524-430.000.

suma; and Sato, Tadashi, to Canon Kabushiki Kaisha. apparatus. 4,659,210, 4-21-87, Cl. 355-14.00R.

sumu; Sugino, Takashi; and Hirose, Naoya, to Canon Kabu- sha. Color image processing apparatus with a plurality of le characteristic conversion tables for compensating for es in the spectral characteristics of different input devices. , 7-7-87, Cl. 358-80.000.

sumu; and Kohzato, Yasuo, to Canon Kabushiki Kaisha. nd apparatus for recording a full-color image with a plural- orants on the basis of a set of area factors for the colorants from a plurality of sets of area factors calculated from a of sets of equations. 4,683,492, 7-28-87, Cl. 358-80.000.

sumu: *See—*
Katsuhiko; and Sugiura, Susumu, 4,676,605, Cl. 350-429.000.

adashi: *See—*
abe, Nobuhiro; Sugiura, Tadashi; and Sugimoto, Hitoshi, 8,163, Cl. 29-159.00R.

oshihiro: *See—*
ri, Takeo; Nakamura, Mitsutaka; and Sugiura, Toshihiro, 7,847, Cl. 73-64.000.

asuyuki: *See—*
oya, Nobuyuki; Kohama, Hajime; and Sugiura, Yasuyuki, 3,409, Cl. 228-122.000.

oya, Nobuyuki; Sugiura, Yasuyuki; and Hatori, Masakazu, 4,320, Cl. 428-210.000.

ouji, to Sanyo Electric Co. Ltd. Sound synthesizing appara- 8,369, 4-14-87, Cl. 364-513.500.

utaka; and Kobayashi, Kazuyoshi, to Fuji Photo Film Co., rier device for disc film. 4,647,192, 3-3-87, Cl. 355-64.000.

Genpei: *See—*
, Nobuo; Okamura, Kikuko; Sugiyama, Genpei; and Suzuka, mu, 4,683,188, Cl. 430-110.000.

Genroku: *See—*
, Nobuya; Hirata, Toichi; Yoshida, Kunaki; Sugiyama, roku; Haga, Masakazu; Tanaka, Hideaki; and Tatsumi, ra, 4,697,418, Cl. 60-434.000.

Gunji: *See—*
wa, Hideo; Sugiyama, Gunji; Tange, Koichi; Hongo, Takero; amoto, Yuzo; and Ohba, Hiroyuki, 4,700,302, Cl. 474.000.

Haruhiko: *See—*
, Yoshitsugu; Shintani, Akimori; Matsuo, Tetsuya; Sugiyama, uhiko; and Tokioka, Nobuyuki, 4,634,671, Cl. 435-188.000.

Hiroshi, to Ikeda Bussan Co., Ltd. Control circuit for elec- ining seat. 4,675,587, 6-23-87, Cl. 318-568.000.

Hiroshi, to Canon Kabushiki Kaisha. Copying apparatus. 8, 10-13-87, Cl. 358-300.000.

Hiroyuki; Sakurai, Masaki; Abe, Ryozo; Yoshihara, Kenji, eji, Yasuo, to Victor Company of Japan, Ltd. Rotary record- ium which is playable in still picture, slow-motion and normal ction modes. 4,638,376, 1-20-87, Cl. 358-342.000.

Hiroyuki, to Victor Company of Japan, Ltd. Recording and cing system for recording both analogue and digital ioforma- and from a disc. 4,641,204, 2-3-87, Cl. 358-341.000.

Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Ni- , Kazunori; Ueno, Shoji; Komura, Makoto; and Shicanjo, i, to Victor Company of Japan, Ltd. Rotary recording ne- ving track turns recorded with digital signal and track turns f with analog signal. 4,660,099, 4-21-87, Cl. 358-342.000.

Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Ni- , Kazunori; and Komura, Makoto, to Victor Company of td. Rotary recording medium reproducing apparatus for cing pre-recorded signals from a rotary recording medium rack turns recorded with digital signal and track turns re- with analog signal. 4,660,100, 4-21-87, Cl. 358-342.000.

Hiroyuki; Komura, Makoto; Masuda, Isao; Nishikawa, ri; and Iwasaki, Yoshiki, to Victor Company of Japan, Ltd. oducing device in a signal reproducing apparatus. 4,667,318, Cl. 369-59.000.

Hiroyuki, to Victor Company of Japan, Ltd. Playback s for audiovisual disc records. 4,672,472, 6-9-87, Cl. 000.

Hiroyuki, to Victor Company of Japan, Ltd. Audiovisual rding. 4,672,473, 6-9-87, Cl. 358-341.000.

Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Ni- , Kazunori; and Komura, Makoto, to Victor Company of td. Digital data transmitting system for transmitting digital data a number of times depending on an information content of the digital data. 4,692,816, 9-8-87, Cl. 358-342.000.

Sugiyama, Hiroyuki, to Victor Company of Japan, Ltd. Jitter compensation system in a rotary recording medium reproducing apparatus. 4,697,257, 9-29-87, Cl. 369-43.000.

Sugiyama, Hisataka; Shigematsu, Kazuo; Maeda, Takeshi; Saitoh, Atsushi; and Takasugi, Wasao, to Hitachi, Ltd. Optical recording method. 4,646,103, 2-24-87, Cl. 346-1.100.

Sugiyama, Ichirou, to Crown Screw Corporation. Structure for screwing object on sheet metal. 4,659,246, 4-21-87, Cl. 403-408.100.

Sugiyama, Isao: *See—*
Saito, Isao; Nomoto, Seiichiro; Kamiya, Takashi; Yamauchi, Hiroshi; Sugiyama, Isao; Machida, Yoshimasa; and Negi, Shigeto, 4,698,336, Cl. 514-202.000.

Sugiyama, Jun; Suzuki, Akira; Terada, Kosei; Oguri, Shigenori; and Ishii, Shigeki, to Nippon Gakki Seizo Kabushiki Kaisha. Rhythm tone source assigning apparatus for use in electronic musical instrument. 4,672,876, 6-16-87, Cl. 84-1.030.

Sugiyama, Jun; Hagino, Kiyoshi; and Usui, Akira, to Nippon Gakki Seizo Kabushiki Kaisha. Data transmission system. 4,694,293, 9-15-87, Cl. 340-825.680.

Sugiyama, Jun; Komatsubara, Hirofumi; Shimaoka, Keiichi; Takeuchi, Masaharu; and Takeuchi, Takashi, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Device for measuring torque of a rotary mechanism. 4,697,460, 10-6-87, Cl. 73-862.360.

Sugiyama, Jun: *See—*
Fujimori, Junichi; and Sugiyama, Jun, 4,633,749, Cl. 84-1.010.
Nonomura, Yutaka; Sugiyama, Jun; Komatsubara, Hirofumi; and Takeuchi, Masaharu, 4,697,459, Cl. 73-862.360.

Sugiyama, Katsuhiko; Kawazoe, Hiromitsu, and Idota, Yoshinori, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Inlet port for internal combustion engine. 4,693,215, 9-15-87, Cl. 123-188.00M.

Sugiyama, Katsuhiko: *See—*
Oshima, Yujiro; Yamada, Masatoshi; Mori, Nobuyuki; Sugiyama, Katsuhiko; Aoyama, Taro; Saito, Akinori; and Kozuka, Kazuhiro, 4,633,830, Cl. 123-276.000.

Sugiyama, Katsumi: *See—*
Shinohara, Emiko; Sugiyama, Katsumi; Ozaki, Masanao; and Matsuda, Keizo, 4,634,790, Cl. 560-40.000.

Sugiyama, Kazuhiro; and Kawai, Yoshio, to Casio Computer Co., Ltd. Compact electronic device. 4,680,432, 7-14-87, Cl. 200-5.00A.

Sugiyama, Kazuhiro; and Shimazaki, Tatsuo, to Casio Computer Co., Ltd. Sheet-like miniaturized electronic device. 4,680,724, 7-14-87, Cl. 364-708.000.

Sugiyama, Kazuhiro: *See—*
Endoh, Kenji; Narui, Fumio; Sugiyama, Kazuhiro; Hara, Kazuya; and Shimazaki, Tatsuo, 4,668,314, Cl. 156-64.000.

Sugiyama, Kazumi: *See—*
Kurata, Ikuro; Hayashi, Hideaki; Sugiyama, Kazumi; and Kubori, Kunihiko, 4,654,108, Cl. 156-561.000.

Sugiyama, Keiichi; and Nagura, Takahiro, to Yamaha Hatsudoki Kabushiki Kaisha. Intake system for internal combustion engine. 4,660,530, 4-28-87, Cl. 123-432.000.

Sugiyama, Kenji: *See—*
Miyazaki, Takeshi; and Sugiyama, Kenji, 4,650,223, Cl. 285-158.000.

Sugiyama, Kiyoaki, to Nippon Air Brake Co., Ltd. Automatic tension adjusting mechanism for winding and transmitting device for automatic door. 4,708,695, 11-24-87, Cl. 474-101.000.

Sugiyama, Kiyoshi; and Furubashi, Tomio, to Toshiba Kikai Kabushiki Kaisha. Machine tool for drilling printed circuit boards. 4,637,118, 1-20-87, Cl. 29-563.000.

Sugiyama, Kiyoshi; and Nakamura, Kotaro, to Toshiba Kikai Kabushiki Kaisha. Machine tool capable of changing worn cutting tools, such as small diameter drills, with new ones. 4,715,108, 12-29-87, Cl. 29-568.000.

Sugiyama, Makoto; Sugimura, Hiroshi; Machida, Naoyoshi; and Murai, Yoshiichi, to Kai Cutlery Center Co., Ltd. Grip scissors. 4,715,121, 12-29-87, Cl. 30-253.000.

Sugiyama, Masahiko; Sutou, Masatune; Murata, Mitsuru; Ooki, Minoru; and Tagawa, Shigetaro, to Hitachi, Ltd. Horizontal type rotary compressor. 4,636,154, 1-13-87, Cl. 418-97.000.

Sugiyama, Masahiro: *See—*
Ooata, Yoshiharu; Noji, Takashi; Sugiyama, Masahiro; and Kawamura, Shigeharu, 4,654,558, Cl. 313-372.000.
Obata, Yoshiharu; Noji, Takashi; Sugiyama, Masahiro; and Kawamura, Shigeharu, 4,670,094, Cl. 156-655.000.

Sugiyama, Masami; and Kasahara, Yasushi, to Fujizoki Pharmaceutical Co., Ltd. Amylase inhibitor and preparation and use thereof. 4,634,763, 1-6-87, Cl. 530-375.000.

Sugiyama, Masaru: *See—*
Kinoshita, Katsuyuki; Shinoda, Kazunori; Sugiyama, Masaru; Ooba, Kouichiro; and Suzuki, Yoshiji, 4,677,341, Cl. 315-12.100.

Sugiyama, Masayoshi: *See—*
Ninomiya, Yoshinobu; Muroyama, Masakazu; Sugiyama, Masayoshi; and Hashimoto, Akira, 4,656,089, Cl. 428-327.000.
Okumura, Tsuguo; Yamagishi, Naomichi; Abe, Kazuharu; Sugiyama, Masayoshi; and Mori, Kenji, 4,698,195, Cl. 264-235.800.
Yamagishi, Naomichi; Mori, Kenji; Okumura, Tsuguo; Hiratsuka, Tatsufumi; and Sugiyama, Masayoshi, 4,634,840, Cl. 219-388.000.

Sugiyama, Matsuyoshi, to Toyota Jidosha Kabushiki Kaisha. High-speed generator for a gas turbine engine. 4,669,263, 6-2-87, Cl. 60-39.080.

Sugiyama, Mitsuru: *See—*
Shoji, Toru; Sugiyama, Mitsuru; Takezawa, Makoto; Akiba, Yuichi; Kaneko, Akira; and Sato, Mituo, 4,673,596, Cl. 427-262.000.

Sugiyama, Naoharu: See—
Ashizawa, Yasuo; and Sugiyama, Naoharu, 4,664,963, Cl. 118-724.000.
Sugiyama, Norihide; Funato, Katsuro; Nagase, Hiroshi; Yamamoto, Seiichi; and Miyamori, Shigeo, to Fujikura Kasei Co., Ltd. Process for producing pressure-fixable electrophotographic toners, 4,702,989, 10-27-87, Cl. 430-137.000.
Sugiyama, Osamu: See—
Gotoh, Hajime; Machida, Mamoru; and Sugiyama, Osamu, 4,713,276, Cl. 428-113.000.
Sugiyama, Sadao; and Goto, Hiroshi, to Omron Tateisi Electronics Co. Static pressure air surface stage, 4,648,723, 3-10-87, Cl. 384-9.000.
Sugiyama, Sadao; and Goto, Hiroshi, to Omron Tateisi Electronics Co. Static pressure air surface stage, 4,648,724, 3-10-87, Cl. 384-9.000.
Sugiyama, Sakae: See—
Tomizawa, Fumio; Tsuchita, Kenji; and Sugiyama, Sakae, 4,655,085, Cl. 73-631.000.
Sugiyama, Shigeki: See—
Tegoshi, Shigeru; Saitoh, Hiromi; Takahashi, Shigeyuki; Makino, Yasuo; Kakinuma, Mitsuru; Saitoh, Shigeo; and Sugiyama, Shigeki, 4,703,628, Cl. 62-135.000.
Sugiyama, Shigeo: See—
Sato, Mitsuharu; Adachi, Sakashi; Kimura, Izumi; and Sugiyama, Shigeo, 4,670,965, Cl. 29-568.000.
Sugiyama, Shigeru: See—
Ayabe, Yousuke; and Sugiyama, Shigeru, 4,712,702, Cl. 220-90.200.
Sugiyama, Shuji; Syohda, Shuji; and Kuniyoshi, Shinji, to Hitachi, Ltd. Optical exposer, 4,693,529, 9-1-87, Cl. 353-122.000.
Sugiyama, Susumu: See—
Nakamura, Yoshio; Sugiyama, Susumu; Nishizawa, Junichi; and Ohno, Tadahiro, 4,692,789, Cl. 357-74.000.
Sugiyama, Susumu, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Semiconductor strain measuring apparatus, 4,654,621, 3-31-87, Cl. 338-5.000.
Sugiyama, Susumu; Nakamura, Yoshio; Ohno, Harunobu; and Kataoka, Tokimasa, to Kabushiki Kaisha Toyota Chuo Kenkyusho and Narumi Semiconductor apparatus, 4,672,417, 6-9-87, Cl. 357-67.000.
Sugiyama, Syogo: See—
Hara, Noburu; and Sugiyama, Syogo, 4,660,988, Cl. 366-137.000.
Sugiyama, Tadashi; Iwaoka, Hideto; and Matsuura, Hiroyuki, to Yokogawa Hokushin Electric Corporation. NMR imaging apparatus, 4,665,368, 5-12-87, Cl. 324-318.000.
Sugiyama, Tadashi; and Yamauchi, Yukio, to Hochiki Corporation. Gas sensor and gas detecting method, 4,704,536, 11-3-87, Cl. 250-381.000.
Sugiyama, Tadashi: See—
Hoshino, Kazuya; Yamada, Noriaki; Yoshitome, Eiji; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,644,279, Cl. 324-309.000.
Inoue, Yuji; Iwaoka, Hideto; and Sugiyama, Tadashi, 4,716,370, Cl. 324-319.000.
Iwaoka, Hideto; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,651,097, Cl. 324-309.000.
Iwaoka, Hideto; Sugiyama, Tadashi; Matsuura, Hiroyuki; and Hirata, Takaaki, 4,694,250, Cl. 324-309.000.
Yamada, Noriaki; Hoshino, Kazuya; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,656,426, Cl. 324-309.000.
Yamaguchi, Keiki; Inoue, Yuji; Iwaoka, Hideto; and Sugiyama, Tadashi, 4,663,592, Cl. 324-315.000.
Yamaguchi, Keiki; Iwaoka, Hideto; Sugiyama, Tadashi; and Inoue, Yuji, 4,700,136, Cl. 324-309.000.
Sugiyama, Takekatsu: See—
Iwakura, Ken; and Sugiyama, Takekatsu, 4,682,193, Cl. 503-209.000.
Sugiyama, Toshimasa: See—
Endo, Takayoshi; Sugiyama, Toshimasa; Murofushi, Satoru; and Yagi, Sakae, 4,648,673, Cl. 339-97.00R.
Sugiyama, Toshinori: See—
Matsushima, Seiichi; Higashihara, Toshio; Shimizu, Mitsuru; Yoshizawa, Ken; Suzuki, Masahiro; and Sugiyama, Toshinori, 4,710,913, Cl. 369-280.000.
Sugiyama, Tsutomu: See—
Okano, Michiharu; and Sugiyama, Tsutomu, 4,652,708, Cl. 200-146.00R.
Sugiyama, Yasuo; Hiraoka, Osamu; Nakazawa, Tamotsu; and Nakamura, Kenji, to Shiseido Company, Ltd., and Nakamura Bussan Kabushiki Kaisha. Oil absorbing cosmetic tissue, 4,643,939, 2-17-87, Cl. 428-283.000.
Sugiyama, Yasuo: See—
Onishi, Ken; and Sugiyama, Yasuo, 4,682,133, Cl. 371-39.000.
Sugiyama, Yoshiaki: See—
Kojima, Tatsuo; Sugiyama, Yoshiaki; Terashima, Jun; and Kiuchi, Masayoshi, 4,699,486, Cl. 354-82.000.
Sugiyama, Yoshie: See—
Takaya, Takao; Takasugi, Hisashi; Kumi, Atsushi; and Sugiyama, Yoshie, 4,698,340, Cl. 514-222.000.
Sugiyama, Yoshihiko; Nanba, Keizo; Hagiwara, Michiki; Aoki, Takesot; Iwasaki, Shosuke; and Abiko, Tetsuo, to Sumitomo Light Metal Industries, Ltd.; and Sumitomo Precision Products Co., Ltd. Fin stock material for use in plate fin heat exchanger adapted for superhigh pressure service, 4,673,551, 6-16-87, Cl. 420-535.000.
Sugiyama, Yoshiyuki; Aoki, Shinichiro; and Morita, Yasuyuki, to Matsushita Electric Industrial Co., Ltd. Ultrasonic probe having dual-motion transducer, 4,637,256, 1-20-87, Cl. 73-633.000.
Sugiyasu Industries Co., Ltd.: See—
Suzuki, Koichi, 4,679,660, Cl. 187-8.410.
Suzuki, Koichi, 4,715,477, Cl. 187-8.470.
Sugiyo Co., Ltd.: See—
Sugino, Yoshito; and Yamamoto, Iwao, 4,652,455, Cl. 426-104.000.
Sugizaki, Iwao: See—
Takizawa, Kunji; Mizuno, Ichiro; and Sugizaki, Iwao, 4,679,326, Cl. 33-170.000.
Sugizaki, Tsugio; Abe, Tadashi; Haibara, Fumio; Fujii, Ryuso; Uchiyama, Hiroshi; and Matsumoto, Tooru, to Konishiroku Photo Industry Co., Ltd. Automatic sheet reversing apparatus, 4,650,176, 3-17-87, Cl. 271-225.000.
Sugizono, Shuichi: See—
Kawai, Katsumori; Deguchi, Hiroyuki; Kobayashi, Hisao; and Sugizono, Shuichi, 4,669,272, Cl. 62-228.300.
Kawai, Katsumori; Kobayashi, Hisao; Deguchi, Hiroyuki; and Sugizono, Shuichi, 4,709,555, Cl. 62-228.300.
Sugo, Yasuhisa: See—
Osumi, Kazuo; and Sugo, Yasuhisa, 4,665,309, Cl. 365-233.000.
Osumi, Kazuo; Sugo, Yasuhisa; and Takeshima, Tohru, 4,692,908, Cl. 365-63.000.
Sugimachi, Akira, to Nippon Gakki Seizo Kabushiki Kaisha. Archive how handle riser, 4,693,230, 9-15-87, Cl. 124-83.000.
Suguro, Kyoichi: See—
Inoue, Tomoyasu; Tango, Hiroyuki; Suguro, Kyoichi; Higashinakagawa, Iwao; and Hamasaki, Toshihiko, 4,662,949, Cl. 148-1.500.
Suh, John T.; Piwinski, John J.; Jones, Howard; and Ness, Edward S., to USV Pharmaceutical Corporation. Benzothiadiazepine compounds for treating hypertension, 4,696,939, 9-29-87, Cl. 514-221.000.
Suh, John T.; and Barton, Jeffrey N., to USV Pharmaceutical Corporation. Substituted cyclic amines, 4,703,061, 10-27-87, Cl. 514-317.000.
Suh, John T.: See—
Huang, Fu-chih; Suh, John T.; and Skiles, Jerry W., 4,703,057, Cl. 514-19.000.
Ness, Edward S.; Stevenson, David; Ho, Laurence L.; Liu, Robert C.; and Suh, John T., 4,650,854, Cl. 530-307.000.
Ness, Edward S.; Suh, John T.; and Piwinski, John J., 4,661,501, Cl. 514-471.000.
Piwinski, John J.; Suh, John T.; Menard, Paul; Jones, Howard; Ness, Edward S.; and Regan, John R., 4,666,906, Cl. 514-222.000.
Youssefyeh, Raymond D.; Skiles, Jerry W.; Suh, John T.; and Jones, Howard, 4,656,295, Cl. 548-226.000.
Suh, Jung J.; and Hong, Yon H., to YuHan Corporation Co., Ltd. Process for the preparation of 3,4-dihydro-2-substituted-2H-1,2-thiazine-carboxylic acid 1,1-dioxide derivatives, 4,683,306, 7-28-87, Cl. 544-33.000.
Suh, Kun H. Vertically assembling box type blocks, 4,703,600, 11-3-87, Cl. 52-437.000.
Suh, Kyung S., to Dseng Precision Company. Electronic lock and key, 4,697,171, 9-29-87, Cl. 340-543.000.
Suh, Kyung W.; and Kennedy, John M., to Dow Chemical Company. The. Method for the preparation of styrene polymer foam and foam prepared thereby, 4,636,527, 1-13-87, Cl. 521-79.000.
Suh, Nam P.; Saka, Nannaji; and Lion, Ming J., to Massachusetts Institute of Technology. Electrical contacts, 4,687,274, 8-18-87, Cl. 439-426.000.
Suh, Nam P.: See—
Sanchez-Caldera, Luis E.; Suh, Nam P.; Chen, Jung-Hoon; Lee-Arthur, K.; and Blackall, Frederick S., IV, 4,706,750, Cl. 164-135.000.
Suhadolnik, Robert J.; Wu, Joseph M.; Doetsch, Paul; and Henderson, Earl E., to Research Corporation. (2'-5')-Oligo (2'-deoxyadenylate) and derivatives thereof, 4,708,935, 11-24-87, Cl. 435-91.000.
Suhajda, John L., to S. C. Johnson & Son, Inc. Electric fuse, 4,675,504, 6-23-87, Cl. 219-272.000.
Suhajda, John L., to S. C. Johnson & Son, Inc. Electric fuse, 4,703,155, 10-27-87, Cl. 219-271.000.
Suhaka, Stanley C.: See—
Jenkins, Kenneth L.; Suhaka, Stanley C.; Dohn, Rick L.; LaRoche, Allan R.; Hodgson, Robert E.; Such, Neil R.; Smith, Douglas D.; Newton, Frank R.; and Cunningham, Richard N., 4,634,622, Cl. 428-143.000.
Suhara, Eiji: See—
Wada, Atsuki; Takahashi, Mikio; and Suhara, Eiji, 4,671,497, Cl. 210-98.000.
Suhara, Katsuhiro: See—
Hayashi, Keizo; Hasegawa, Hitoshi; and Suhara, Katsuhiro, 4,708,633, Cl. 425-574.000.
Suhner Intertrade AG: See—
Fumey, Jurg, 4,701,082, Cl. 408-127.000.
Suhonen, Tuomo: See—
Kuusela, Juhani; Lopperi, Esko; Lummila, Markku; Saksala, Pertti; Salovaara, Esa; Suhonen, Tuomo; Perttuna, Harri; Pokelainen, Esko; and Trygg, Hannu, 4,700,953, Cl. 277-38.000.
Suhr, Heinz-Peter; and Weinberger, Bernd, to August Frescher GmbH & Co. K.G., Firma. Adjusting mechanism for the step-wise locking height adjustment of backrest of work chair, 4,660,885, 4-28-87, Cl. 297-353.000.
Suhr, Heinz-Peter; and Weinberger, Bernd, to August Frescher G.m.b.H. & Co. K.G., Firma. Work chair, 4,695,093, 9-22-87, Cl. 297-300.000.
Suhre, Dennis R., to Westinghouse Electric Corp. Laser generating apparatus utilizing frequency agile unstable resonator low pressure gain cell and tuning means, 4,656,639, 4-7-87, Cl. 372-83.000.
Suinat: See—
Suinat, Jean P.; and Suinat, Rene, 4,669,345, Cl. 83-194.000.

, and Sumat, Rene, to Sumat. Device for laterally perfo-
tic pieces, particularly pressed pieces. 4,669,345, 6-2-87,
00.
See—
n P., and Sumat, Rene. 4,669,345, Cl. 83-194.000.
ato. See—
Tabei. 4,646,465, Cl. 47-1.100.
See—
l R., and Suiter, John R., 4,679,431, Cl. 73-290.00R.
n B., Jr. See—
Wayne C., Magalhaes, Frank M., Suiter, Weyman B., Jr.,
ne, Norman G., 4,685,041, Cl. 363-40.000.
f. See—
Richard A., Cusumano, Salvatore J., Jenks, Morton B.,
ro, Robert L., 4,667,090, Cl. 250-701.000.
nichi. See—
ne, Kazufumi, and Sujaku, Takemichi. 4,661,669, Cl.
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, and Ono, Shinzo, to Suka, Motoshi. Process for produc-
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21, Cl. 219-121.01R.G.
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ev, Alexei P.; Pinovsky, Mikhail I.; Tkachenko, Viktor P.;
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81,823, Cl. 429-218.000.
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3-17-87, Cl. 251-54.000.
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hereof. 4,696,974, 9-29-87, Cl. 525-92.000.
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Max, 4,679,272, Cl. 15-106.000.
R., Jr., to Chrysler Motors Corporation. Electronic
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lenoid valve. 4,711,269, 12-8-87, Cl. 137-625.500.

Suleiman, Elisabeth. See—
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Padszun, Wolfgang; Witte, Josef; Suling, Carlhans; and Goossens, John. 4,665,011, Cl. 430-114.000.
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Reiners, Jurgen; Winkel, Jens; Klanke, Erich; Suling, Carlhans; and Podszun, Wolfgang. 4,665,217, Cl. 560-160.000.
Sulkowski, Eugene. See—
Dombinski, Wlodzimierz E.; and Sulkowski, Eugene. 4,658,017, Cl. 530-351.000.
Sulley, Guenther, to Carolina Creations, Inc. Invertible comforter. 4,646,376, 3-3-87, Cl. 5-502.000.
Sullivan, Andrew M., to Protective Coatings, Inc. Sheet roofing system. 4,677,[illegible]3, 6-9-87, Cl. 52-518.000.
Sullivan, B. Patrick. See—
Meyer, Thomas J.; O'Toole, Terrence R.; Margerum, Lawrence D.; Westmoreland, T. David; Young, William J.; Murray, Royce W.; and Sullivan, B. Patrick. 4,711,708, Cl. 204-240.000.
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Stefanov, Michael E.; Sullivan, Brian J.; and Ticknor, Anthony J., 4,637,725, Cl. 356-354.000.
Sullivan, Brian P.; Dennis, Larry T.; and Ferrell, Robert A., to KCI Corporation. Reclosable bag with sealed laminated liner and method. 4,637,063, 1-13-87, Cl. 383-61.000.
Sullivan Corporation. See—
Oberhofer, David P., 4,681,270, Cl. 241-298.000.
Sullivan, Daniel C.; and Mazonde, Earl A., Jr., to F.T.A. Systems, Inc. Cryostar cooling system. 4,712,388, 12-15-87, Cl. 62-114.00R.
Sullivan, Daniel J., to Motorola, Inc. Epitaxial front seal for a wafer. 4,696,701, 9-29-87, Cl. 148-33.500.
Sullivan, Daniel S. See—
Haslegrave, John A.; and Sullivan, Daniel S., 4,673,436, Cl. 106-14.130.
Sullivan, Daniel T. See—
DeFreitas, Richard E.; and Sullivan, Daniel T., 4,682,362, Cl. 381-61.000.
Sullivan, David W. See—
Griffing, Robert S.; and Sullivan, David W., 4,653,380, Cl. 89-7.000.
Sullivan, Dennis, and Bloch, Richard J., to Carolina Power & Light Company. Forming stable welded joints between dissimilar metals. 4,702,406, 10-27-87, Cl. 228-200.000.
Sullivan, Donald F. High resolution printed circuits formed in photopolymer pattern indentations overlaying printed wiring board substrates. 4,645,733, 2-24-87, Cl. 430-314.000.
Sullivan, Donald F. Transferring polymer from thin plastic films to photodevelop insulation patterns on printed wiring boards. 4,647,524, 3-3-87, Cl. 430-312.000.
Sullivan, Donald F. Photoprinting process and apparatus for exposing paste-consistency photopolymers. 4,657,839, 4-14-87, Cl. 430-256.000.
Sullivan, Donald F. Photoprinting process and apparatus for exposing paste-consistency photopolymers. 4,669,869, 6-2-87, Cl. 355-84.600.
Sullivan, Donald F., to Telemark Co., Inc. Circuit wiring disposed on solder mask coating. 4,706,167, 11-10-87, Cl. 361-406.000.
Sullivan, Donald K., to Outboard Marine Corporation. Hydraulic system for marine propulsion devices. 4,642,058, 2-10-87, Cl. 440-61.000.
Sullivan, Donald K. See—
Bland, Gerald F.; and Sullivan, Donald K., 4,654,013, Cl. 440-57.000.
Bland, Gerald F.; Johnson, Stephen R.; and Sullivan, Donald K., 4,659,315, Cl. 440-61.000.
Bland, Gerald F.; and Sullivan, Donald K., 4,699,598, Cl. 440-88.000.
Sullivan, Edith. Enhancing shoe visibility in darkness. 4,651,447, 3-24-87, Cl. 36-137.000.
Sullivan Engine Works, Inc. See—
Sullivan, Robert W.; Holder, Tommie J.; and Buchanan, Max F., 4,648,358, Cl. 123-43.00A.
Sullivan, F. Ryan; and Aleksa, David M., to B.F. Goodrich Company, The. Coating for EMI shielding. 4,715,989, 12-29-87, Cl. 252-512.000.
Sullivan, George D. See—
Meenan, William C.; and Sullivan, George D., 4,685,220, Cl. 34-10.000.
Meenan, William C.; and Sullivan, George D., 4,699,721, Cl. 210-771.000.
Sullivan, Henry F., to Navillus, Inc. Hinge clamp mechanism for drop-leaf tables. 4,646,654, 3-3-87, Cl. 108-69.000.
Sullivan, Herbert W.; and Cohn, Leonard A., to Chopp Computer Corp. Shared memory computer method and apparatus. 4,707,781, 11-17-87, Cl. 364-200.000.
Sullivan, Jack M. See—
Medina, Ramiro; and Sullivan, Jack M., 4,670,038, Cl. 71-29.000.

Sullivan, Jack O., to General Electric Company. Expandable wedge assembly for releasably securing an insert in a cutting tool. 4,708,536, 11-24-87, Cl. 407-41.000.

Sullivan, James B.; and Fox, Richard B. Shock absorbing innersole and method for preparing same. 4,674,204, 6-23-87, Cl. 36-44.000.

Sullivan, James B.; and Box, Richard B. Elastomeric shoe innersole. 4,694,589, 9-22-87, Cl. 36-44.000.

Sullivan, James J.; and Quimby, Bruce D., to Hewlett-Packard Company. Water-cooled gas discharge detector. 4,654,504, 3-31-87, Cl. 219-121.0PM.

Sullivan, James V.: *See*—
Minton, Allen P.; Aitri, Arun K.; and Sullivan, James V., 4,693,984, Cl. 436-180.000.

Sullivan, James W.: *See*—
Lewis, Robert T.; Sullivan, James W.; Milliner, Kenneth M.; and Lowe, Byron L., 4,648,858, Cl. 493-4.000.

Sullivan, Jeffrey R.: *See*—
Bainbridge, Gary R.; McCauley, Lewis D.; and Sullivan, Jeffrey R., 4,633,896, Cl. 137-296.000.
McCauley, Durham S.; and Sullivan, Jeffrey R., 4,717,586, Cl. 138-89.000.

Sullivan, Jeremiah B.; Shaheen, Donald G.; Stanovick, Richard F.; and Dove, Robert L., to DEGESCH GmbH. Package for toxic fumigant material in pellet or tablet form and method of making same. 4,653,644, 3-31-87, Cl. 206-538.000.

Sullivan, John. *See*—
Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, 4,663,710, Cl. 364-400.000.
Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, 4,672,540, Cl. 364-400.000.

Sullivan, John F.: *See*—
Ainslie, Norman G.; Harvilchuck, Joseph M.; Interrante, Mario J.; King, William J., Jr.; Palmateer, Paul H.; and Sullivan, John F., 4,634,638, Cl. 428-671.000.

Sullivan, John L.: *See*—
Somerville, Robert L.; Sweat, Samuel F.; and Sullivan, John L., 4,634,533, Cl. 210-722.000.

Sullivan, Leroy J., to Branscomb Corporation N.V. Ammunition round. 4,644,866, 2-24-87, Cl. 102-439.000.

Sullivan, Leroy J., to Beta Company, The. Drum magazine. 4,658,700, 4-21-87, Cl. 89-33.020.

Sullivan, Leroy J., to Branscomb Corporation N.V. Ammunition round. 4,700,630, 10-20-87, Cl. 102-439.000.

Sullivan, Michael J.: *See*—
Douglass, Eugene F.; Sullivan, Michael J.; and Young, Austin H., 4,663,388, Cl. 525-54.300.

Sullivan, Mike: *See*—
Lubock, Paul; and Sullivan, Mike, 4,679,556, Cl. 128-303.00R.

Sullivan, Paul A.: *See*—
Ellsworth, Daniel L.; and Sullivan, Paul A., 4,651,409, Cl. 29-576.00B.
Metz, Werner A., Jr.; Szluk, Nicholas J.; Miller, Gayle W.; Drury, Michael J.; and Sullivan, Paul A., 4,648,175, Cl. 29-589.000.

Sullivan, Paul D.: *See*—
Cooper, Ronald J.; Marsico, Mario A.; Pescatore, John C.; and Sullivan, Paul D., 4,648,029, Cl. 364-200.000.

Sullivan, Paul E.: *See*—
Peppel, George W.; and Sullivan, Paul E., 4,655,433, Cl. 254-364.000.
Peppel, George W.; and Sullivan, Paul E., 4,706,998, Cl. 285-167.000.

Sullivan, Robert W.; Holder, Tommie J.; and Buchanan, Max F., to Sullivan Engine Works, Inc. Rotary vee engine. 4,648,358, 3-10-87, Cl. 123-43.00A.

Sullivan, Roderick B., II; Doshi, Mahesh; and Cooper, Lorne, to Prime Computer, Inc. Digital system simulation method and apparatus having improved sampling. 4,695,968, 9-22-87, Cl. 364-578.000.

Sullivan, Sean; and Stutz, Glenn E., to Lincoln Laser Company. Dual beam laser inspection apparatus. 4,643,569, 2-17-87, Cl. 356-237.000.

Sullivan, Sheila M.: *See*—
Young, Chung C.; Coleman, Robert L.; Sullivan, Sheila M.; Grimes, John F.; Baumeister, Ferdiuand; MacIndoe, Robert; Catalano, Lou; Coppola, Pat; Spaziani, Fred; Rodomista, Guy; and Fowler, James E., 4,686,479, Cl. 324-439.000.

Sullivan, Steven K.; and Branson, Christopher W., to Tektronix, Inc. Adjustable impedance driver network. 4,707,620, 11-17-87, Cl. 307-270.000.

Sullivan, Steven K.: *See*—
Branson, Christopher W.; and Sullivan, Steven K., 4,712,058, Cl. 324-23.00R.

Sullivan, Thomas E.; and Kulak, Mark A., to Enthone, Incorporated. Process for regenerating solder stripping solutions. 4,673,521, 6-16-87, Cl. 252-79.300.

Sullivan, Thomas M.; Pleva, Robert M.; and Matthews, Thomas P., to SPI Soft Pac International. Audiographics communication system. 4,659,876, 4-21-87, Cl. 379-96.000.

Sullivan, Thomas M., to Chrysler Motors Corporation. Power memory seat and mirror control system. 4,682,088, 7-21-87, Cl. 318-568.000.

Sullivan, William B., Jr., to Raytheon Company. Radio frequency receiver. 4,641,368, 2-3-87, Cl. 455-239.000.

Sullivan, William E., to Risdon Enterprises, Inc. Scouring pad device and method for making same. 4,674,237, 6-23-87, Cl. 51-391.000.

Sulmone, Michael: *See*—
Eberhardt, H. Alfred; Brotman, Kalman; Evangelista, Richard A.; Teske, Richard E.; and Sulmone, Michael, 4,691,667, Cl. 123-633.000.

Sulmont, Benoit: *See*—
Duprat, George; Langon, Bernard; and Sulmont, Benoit, 4,668,352, Cl. 204-67.000.

Sulosky, William P.; and Evans, Raymond D., Jr., to Kennametal, Inc. Means for holding cutter bits. 4,693,518, 9-15-87, Cl. 299-93.000.

Sulser, Henry, to Anstalt. Almopa. Upper body garment construction. 4,635,301, 1-13-87, Cl. 2-69.000.

Sulsky, Paul L.: *See*—
Stouffer, Ronald D.; and Sulsky, Paul L., 4,686,890, Cl. 98-2.000.

Sultan Dental Products, Ltd.: *See*—
Wolfe, Herbert, 4,689,010, Cl. 433-38.000.

Sultan, Steven L.: *See*—
Parnoff, George K.; and Sultan, Steven L., 4,679,573, Cl. 128-716.000.

Sulyagin, Valentin V.: *See*—
Savitsky, Evgeny M.; Goikhman, Mikhail S.; Khudyk, Petr M.; Chepkasov, Valery V.; Sulyagin, Valentin V.; Polyakova, Viktoria P.; Shatinsky, Viktor F.; Gorina, Nelli B.; and Rudkovsky, Evgeny M., 4,654,237, Cl. 427-431.000.

Sulz, Gunter; Wessoly, Lothar; and Thoma, Wolfgang, to Sulz, Gunter. Sailing craft. 4,688,504, 8-25-87, Cl. 114-39.000.

Sulzbach, Hans-Michael: *See*—
Proksa, Ferdinand; Sulzbach, Hans-Michael; Rohrig, Lothar; and Fuhrbach, Hans-Wilhelm, 4,693,448, Cl. 249-162.000.

Sulzbach, Reinhard A.; and von Werner, Konrad, to Hoechst Aktiengesellschaft. Stable, aqueous, colloidal dispersions of copolymers of the tetrafluoroethylene/ethylene type and a process for their preparation. 4,692,493, 9-8-87, Cl. 524-805.000.

Sulzer Brothers Limited: *See*—
Aguet, Emile, 4,637,212, Cl. 60-655.000.
Altorfer, Alfred, 4,658,012, Cl. 528-497.000.
Barten, Antonius M.; and Senn, Georg, 4,667,706, Cl. 139-452.000.
Baumberger, Peter, 4,700,772, Cl. 165-103.000.
Breyer, Fritz-Werner; and Meyer, Wolfgang K., 4,655,258, Cl. 139-1.00C.
Deeg, Helmut; and Imhof, Christian, 4,693,176, Cl. 98-40.120.
Eisenlohr, Franz, 4,682,633, Cl. 139-1.00C.
Frey, Otto; and Niederer, Peter G., 4,666,449, Cl. 623-22.000.
Frey, Otto, 4,704,128, Cl. 623-23.000.
Fricker, Hans, 4,644,975, Cl. 138-110.000.
Fricker, Hans, 4,683,872, Cl. 126-449.000.
Fruh, Walter, 4,665,950, Cl. 138-44.000.
Gacsay, Lorant, 4,640,315, Cl. 139-1.00C.
Geissler, Max, 4,660,756, Cl. 228-184.000.
Greger, Wolfgang, 4,637,437, Cl. 139-336.000.
Griffith, John D., 4,651,786, Cl. 139-452.000.
Griffith, John D., 4,706,716, Cl. 139-91.000.
Griffith, John D., 4,715,410, Cl. 139-434.000.
Herzog, Rudolf, 4,702,306, Cl. 165-36.000.
Hintsch, Otto, 4,635,684, Cl. 139-1.00R.
Hintsch, Otto; and Ernst, Hanspeter, 4,640,318, Cl. 139-439.000.
Hintsch, Otto, 4,669,512, Cl. 139-185.000.
Hintsch, Otto, 4,669,513, Cl. 139-188.00R.
Imhof, Christian; and Kempf, Gerhard, 4,693,069, Cl. 57-59.000.
Jankovsky, Frantisek; and Gacsay, Lorant, 4,653,547, Cl. 139-439.000.
Juhling, Dieter, 4,648,635, Cl. 285-361.000.
Juzi, Heinz, 4,650,503, Cl. 55-185.000.
Juzi, Heinz; and Bernasconi, Marco L., 4,681,129, Cl. 137-154.000.
Lattion, Andre, 4,640,088, Cl. 57-263.000.
Lauer, Fredy, 4,690,600, Cl. 411-263.000.
Lutz, Friedrich, 4,646,790, Cl. 139-429.000.
Medgvesy, Stephen, 4,701,103, Cl. 415-219.00C.
Muller, Maurice E., 4,661,112, Cl. 623-22.000.
Ostermann, Erwin, 4,703,772, Cl. 137-516.210.
Pfarrwaller, Erwin, 4,655,260, Cl. 139-196.200.
Riesen, Peter, 4,653,545, Cl. 139-188.00R.
Russak, Steffen P., 4,700,925, Cl. 251-73.000.
Scharer, Bernhard, 4,706,714, Cl. 139-1.00R.
Senn, Georg; and Oberholzer, Herbert, 4,644,979, Cl. 139-82.000.
Sommer, Bruno, 4,662,315, Cl. 123-23.000.
Stefan, Ammann; and Marcel, Herzig, 4,699,180, Cl. 139-1.00R.
Steiger, Anton, 4,664,150, Cl. 137-625.270.
Steiger, Anton, 4,674,448, Cl. 123-23.000.
Steiner, Alois, 4,655,259, Cl. 139-11.000.
Steiner, August, 4,669,511, Cl. 139-185.000.
Straub, Herman, 4,686,077, Cl. 376-230.000.
Straub, Hermann, 4,696,791, Cl. 376-299.000.
Tauscher, Willy; and Schneider, Gottlieb, 4,692,030, Cl. 366-337.000.
Tiefenthaler, Edelbert, 4,697,619, Cl. 137-613.000.
Trepp, Christian, 4,640,667, Cl. 417-52.000.
van Donk, Cornelis, 4,643,369, Cl. 242-47.010.
Wenig, Ernst; Gacsay, Lorant; and Lincke, Paul, 4,649,965, Cl. 139-439.000.
Ziegler, Heinrich, 4,704,363, Cl. 435-313.000.

Sulzer Canada, Inc.: *See*—
Wynn, Nicholas P., 4,678,648, Cl. 423-228.000.

Sulzer-Escher Wyss AG: *See*—
Guttinger, Heinz, 4,709,571, Cl. 72-366.000.
Link, Christoph; and Brandiser, Herbert, 4,658,621, Cl. 72-243.000.

Sulzer-Escher Wyss GmbH: *See*—
Dahl, Hans K., 4,705,602, Cl. 162-358.000.
Heitmann, Peter, Holik, Herbert; and Mirsberger, Peter, 4,661,206, Cl. 162-358.000.
Holik, Herbert, 4,714,522, Cl. 162-264.000.

Mirsberger, Peter, 4,662,992, Cl. 162-203.000.

Sulzer-Escher Wyss Limited: *See*—
Bartesch, Helmut; and Florin, Gerd, 4,681,029, Cl. 99-483.000.
Christ, Alfred; Lehmann, Helmuth; and Spiewok, Leonhard, 4,704,879, Cl. 68-140.000.

Sulzer, Gerald M.: Tedder, Joseph B., Jr.; Adams, J. Robert, Jr.; and Juneau, Matthew K., to Ethyl Corporation. Cyclic phosphonitrilic halide process. 4,656,018, 4-7-87, Cl. 423-300.000.

Sulzer, Jean F., to Enertec. Tracking alignment for a rotating magnetic transducer head. 4,710,828, 12-1-87, Cl. 360-75.000.

Sulzer Morat GmbH: *See*—
Ebasser, Heinrich; and Kolb, Wolfgang, 4,688,404, Cl. 66-219.000.

Sulzer-Ruti Machinery Work Ltd.: *See*—
Fricker, Hans, 4,687,052, Cl. 165-82.000.

Sulzer Brothers: *See*—
Hintsch, Otto, 4,674,544, Cl. 139-185.000.

Sum, Leung C.: *See*—
Stearns, David; Sum, Leung C.; and Henegar, Jacob, 4,663,697, Cl. 362-154.000.

Sum, Phaik E.: *See*—
Wissner, Allan; Schaub, Robert E.; and Sum, Phaik E., 4,640,913, Cl. 514-77.000.

Sum, Phaik-Eng: *See*—
Wissner, Allan; and Sum, Phaik-Eng, 4,697,031, Cl. 558-169.000.

Suma, Hisayoshi: Incision opening expansion holder for inoculation, 4,654,028, 3-31-87, Cl. 604-106.000.

Suma, Sei: *See*—
Toyoda, Keiji; and Suma, Sei, 4,697,430, Cl. 62-209.000.

Suma, Tetsuro; Abe, Takao; and Ogawa, Tetsuo, to Sony Corporation. Digital data recording and reproducing device. 4,680,763, 7-14-87, Cl. 371-37.000.

Suma, Tetsuro, to Sony Corporation. Error concealing system for digital data. 4,716,565, 12-29-87, Cl. 371-31.000.

Sumal, Jahimd-Singh: *See*—
Knapp, Heinrich; Krauss, Rudolf; Sauer, Rudolf; and Sumal, Jahimd-Singh, 4,653,720, Cl. 251-65.000.

Suman, Michael J.: *See*—
Boerema, Edward T.; Suman, Michael J.; and Fleming, Dennis J., 4,690,450, Cl. 296-97.00K.

Sumberg, Andrew J., to Thermo Electron Corporation. Protection of heat pipes from freeze damage. 4,664,181, 5-12-87, Cl. 165-104.130.

Sumerau, William R.; and Owens, Valerie D., to Singer Company, The. Convertible vacuum cleaner handle. 4,662,026, 5-5-87, Cl. 15-329.000.

Sumerau, William R.; and Harbin, Henry C., to Singer Company, The. Filter retention system for vacuum cleaners. 4,670,937, 6-9-87, Cl. 15-329.000.

Sumi, Akimori: *See*—
Uemura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sumi, Akimori; Ohtani, Wataru; Sakanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu, 4,694,074, Cl. 530-417.000.

Sumi, Akiyasu: *See*—
Notagashira, Hidefumi; Sumi, Akiyasu; Inaba, Hiroyoshi; Katsuma, Makoto; Murakami, Hiroyasu; and Hiramatsu, Akira, 4,660,933, Cl. 350-255.000.

Sumi, Kazumasa: *See*—
Miki, Kazuo; Fukui, Katsuhiko; Hayashi, Yasutaka; Ishiguro, Michio; Sumi, Kazumasa; and Takei, Kazukata, 4,669,745, Cl. 280-91.000.
Miki, Kazuo; Hayashi, Yasutaka; Fukui, Katsuhiko; and Sumi, Kazumasa, 4,700,960, Cl. 280-91.000.

Sumi, Kazunori: *See*—
Itoh, Akio; Sumi, Kazunori; Saitoh, Sigeo; and Sobue, Hideo, 4,703,652, Cl. 73-290.00V.

Sumi, Kiyohide, to Fuji Jukogyo Kabushiki Kaisha. Decompression apparatus for engines. 4,672,930, 6-16-87, Cl. 123-182.000.

Sumi, Masahiko, to Tokyo Shibaura Denki Kabushiki Kaisha. Addressing system for electronic computer. 4,644,469, 2-17-87, Cl. 364-200.000.

Sumi, Masahiko, to Kabushiki Kaisha Toshiba. Apparatus for performing desired logical function. 4,710,898, 12-1-87, Cl. 365-189.000.

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Sumida, Kiyomi: *See*—
Yagi, Toshiro; and Sumida, Kiyomi, 4,656,711, Cl. 29-156.50R.

Sumida, Koji; and Kawasaki, Takeshi, to Webasto-Werk W. Baier GmbH & Co. Ventilating device for a roof opening of vehicles. 4,671,564, 6-9-87, Cl. 296-214.000.

Sumida, Naoto: *See*—
Fujita, Hiroshi; and Sumida, Naoto, 4,668,527, Cl. 427-35.000.
Fujita, Hiroshi; and Sumida, Naoto, 4,670,292, Cl. 427-35.000.

Sumida, Nobuyuki: *See*—
Ari, Kazuhiro; Tanaka, Teruaki; Sumida, Nobuyuki; and Arisaka, Kouhei, 4,637,563, Cl. 242-4.00B.

Sumida, Seizi; Ono, Kaichi; Yoshida, Kazuo; and Yamada, Tomoro, to Nippon Oil and Fats Co., Ltd. Method of preparing fine crystal particles of maleic anhydride. 4,709,057, 11-24-87, Cl. 549-262.000.

Sumida, Seizo: *See*—
Takemoto, Ichiki; Sumida, Seizo; Yoshida, Ryo; and Kamoshita, Katsuzo, 4,690,709, Cl. 71-120.000.

Sumida, Shim: *See*—
Suzuki, Shuzo; Ogasawara, Ichiro; Yokota, Hiroshi; and Sumida, Shim, 4,653,852, Cl. 350-96.330.

Sumida, Shin; Murata, Hisashi; and Katsuyama, Yutaka, to Nippon Telegraph and Telephone Public Corporation. Optical fiber test method and apparatus. 4,659,215, 4-21-87, Cl. 356-73.100.

Sumida, Shizuo: *See*—
Iwamoto, Tadashi; and Sumida, Shizuo, 4,646,059, Cl. 340-52.00F.
Nobumoto, Kazutoshi; and Sumida, Shizuo, 4,671,138, Cl. 74-862.000.
Sotoyama, Kaoru; Sumida, Shizuo; and Kikuchi, Toshiyuki, 4,687,083, Cl. 192-0.076.

Sumida, Takashi; Sasaki, Sigeo; Ketori, Takao; and Fujita, Kazuhiro, to Hitachi Maxell, Ltd. Tape cassette. 4,635,879, 1-13-87, Cl. 242-198.000.

Sumida, Takashi; Sasaki, Shigeo; and Ketori, Takao, to Hitachi Maxell, Ltd. Tape cartridge with extending reference surfaces. 4,643,304, 2-17-87, Cl. 206-387.000.

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Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, to Mita Industrial Co., Ltd. Electrostatic copying apparatus with openable housing. 4,671,644, 6-9-87, Cl. 355-3.00R.

Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, to Mita Industrial Co., Ltd. Electrostatic copying apparatus. 4,693,586, 9-15-87, Cl. 355-3.0SH.

Sumida, Yasuji; Kajita, Hiroshi; and Fujioka, Tadashi, to Mita Industrial Co., Ltd. Electrostatic copying apparatus. 4,711,550, 12-8-87, Cl. 355-3.0SH.

Sumida, Yuzo: *See*—
Kondo, Akihiro; Tsushima, Rikio; and Sumida, Yuzo, 4,639,491, Cl. 524-801.000.
Yamasaki, Harumasa; Kobayashi, Takatoshi; Ito, Osamu; Sakurai, Akira; and Sumida, Yuzo, 4,666,975, Cl. 524-733.000.

Sumigawa, Yukio, to Sanshin Kogyo Kabushiki Kaisha. Steering device for an outboard motor. 4,701,141, 10-20-87, Cl. 440-55.000.

Sumigawa, Yukio, to Sanshin Kogyo Kabushiki Kaisha. Outboard motor provided with a four-stroke engine. 4,709,671, 12-1-87, Cl. 123-196.00S.

Sumihi, Noritaka, to Kabushiki Kaisha Daikin Seisakusho. Power change-over mechanism of a vehicle for industrial machinery. 4,677,867, 7-7-87, Cl. 74-332.000.

Sumii, Yoshiyuki; and Fukaya, Soshichi, to Japan Vilene Co., Ltd. Cleaning web for fixing rolls on copy machines. 4,686,132, 8-11-87, Cl. 428-171.000.

Sumikawa, Seiji; and Noguchi, Ichiro, to Diesel Kiki Co., Ltd. Air conditioning system for automotive vehicles. 4,677,830, 7-7-87, Cl. 62-126.000.

Sumikin Coke Company Limited: *See*—
Ikeda, Minoru; and Higashigawa, Yasuyuki, 4,674,054, Cl. 364-477.000.

Sumiko, Inc.: *See*—
Croopnick, Bruce J.; and Fletcher, David W., 4,675,859, Cl. 369-147.000.

Sumimoto, Takashi, to Mazda Motor Corporation. Vehicle rear suspension system. 4,650,209, 3-17-87, Cl. 280-690.000.

Sumimura, Shin-ichi; and Tazawa, Akira, to Toray Silicone Company, Ltd. Method for producing a silicone polymer-filler mixture. 4,696,970, 9-29-87, Cl. 524-860.000.

Sumino, Tomoko: *See*—
Wakamiya, Yoshinori; and Sumino, Tomoko, 4,709,570, Cl. 72-365.000.

Suminoe Textile Co., Ltd.: *See*—
Yabe, Tomoyoshi, 4,648,250, Cl. 68-5.00D.

Suminsby, John E.: *See*—
Haim, Elias S.; and Suminsby, John E., 4,634,225, Cl. 350-331.00T.

Sumita, Mitsutaka: *See*—
Hori, Toshimitsu; and Sumita, Mitsutaka, 4,644,124, Cl. 219-69.00M.

Sumita, Yukio: *See*—
Morishita, Masataka; Ono, Masaru; and Sumita, Yukio, 4,716,153, Cl. 514-30.000.

Sumitani, Koji; Sakai, Tokuji; Yamasaki, Yasuo; and Onodera, Tamio, to Teijin Petrochemical Industries, Ltd. Novel crystalline aluminosilicate zeolites and process for production thereof. 4,695,667, 9-22-87, Cl. 585-481.000.

Sumitani, Koji: *See*—
Onodera, Tamio; Namatame, Akio; Sato, Kimihiko; and Sumitani, Koji, 4,700,012, Cl. 585-481.000.

Sumitani, Shigeto: *See*—
Saito, Kazuo; Matsuzaka, Takashi; Chiba, Mitsuyoshi; Sumitani, Shigeto; Yodo, Masami; and Araya, Hiroyuki, 4,642,046, Cl. 431-354.000.

Sumitani, Shinya: *See*—
Matsumura, Toshimi; Hasegawa, Takashi; Hayakawa, Takaharu; Sumitani, Shinya; and Sakakibara, Shuji, 4,667,634, Cl. 123-357.000.

Matsumura, Toshimi; Sumitani, Shinya; Hayakawa, Takahiro; Hasegawa, Takashi; and Sakakibara, Shuji, 4,705,000, Cl. 123-357.003.
Sumitani, Toshihiko: *See*—
Nakanishi, Yasuhiro; and Sumitani, Toshihiko, 4,654,872, Cl. 364-900.000.
Oda, Koichi; Hatta, Koichi; and Sumitani, Toshihiko, 4,695,983, Cl. 364-709.000.
Sumitomo Electric Industries, Ltd.: *See*—
Mano, Hiroshi, 4,713,070, Cl. 623-1.000.
Sumitomo Bakelite Company Limited: *See*—
Iwasa, Masakazu; Morita, Kazuhiko; Nakatani, Sadao; and Nakamura, Eiji, 4,670,314, Cl. 428-35.000.
Kawashima, Giichi, 4,678,616, Cl. 264-24.000.
Nakayama, Syoichi; Inui, Keita; and Suzuki, Setsuo, 4,673,602, Cl. 428-65.000.
Noguchi, Yasuo; Idemoto, Morito; and Matsunaga, Fumiaki, 4,662,212, Cl. 73-24.000.
Ogita, Sachio, 4,693,704, Cl. 604-55.000.
Onohara, Masayuki; Kawai, Kenji; Shibata, Masaru; Igarashi, Akira; and Kawaguchi, Nobuhisa, 4,686,124, Cl. 428-35.000.
Sumitomo Bayer Urethane Co., Ltd.: *See*—
Honda, Masaru; Chiba, Takanori; Imokawa, Toshiaki; Harada, Yoshito; and Nagayasu, Katsumi, 4,686,145, Cl. 428-425.900.
Sumitomo Cement Co., Ltd.: *See*—
Oguri, Hitoshi; and Hirota, Motoya, 4,634,492, Cl. 156-505.000.
Sato, Masao; Ichimura, Masaaki; and Sato, Kunio, 4,717,115, Cl. 106-118.000.
Takagi, Shigehide; and Yamauchi, Shigeru, 4,654,314, Cl. 501-82.000.
Sumitomo Chemical Company: *See*—
Sato, Hiroshi; Hirose, Kenichi; Ishii, Norio; and Umada, Youichi, 4,709,024, Cl. 540-536.000.
Sumitomo Chemical Company, Limited: *See*—
Arakawa, Shinichi; Araki, Masashi; and Okamura, Masaaki, 4,665,237, Cl. 568-697.000.
Araki, Masashi; and Hibi, Takuo, 4,681,979, Cl. 585-640.000.
Funaki, Masaaki; Ohtani, Noboru; Yoshida, Motoaki; Fujioka, Akira; and Sakiyama, Kazuo, 4,642,266, Cl. 428-412.000.
Haga, Toru; Nagano, Eiki; Takase, Masayuki; and Sato, Ryo, 4,668,278, Cl. 71-92.000.
Haga, Toru; Nagano, Eiki; Sato, Ryo; and Morita, Kouichi, 4,670,042, Cl. 71-92.000.
Hanabata, Makoto; Furuta, Akihiro; Yasui, Seimei; and Tanaka, Kunihiko, 4,696,886, Cl. 430-192.000.
Hashimoto, Tadanori; Hama, Masaaki; and Kobayashi, Osamu, 4,649,003, Cl. 264-63.000.
Hattori, Makoto; Nishikuri, Masao; and Ueda, Yasuyoshi, 4,710,320, Cl. 260-378.000.
Higashimura, Toshinobu; Sawamoto, Mitsuo; Toyoshima, Yoshiki; Kanagawa, Shuichi; Takahashi, Tsutomu; and Saito, Noriaki, 4,696,988, Cl. 526-220.000.
Higashio, Yasuhiko; and Takahashi, Kazuteru, 4,684,758, Cl. 585-608.000.
Ichihashi, Hiroshi; and Yoshioka, Hiroshi, 4,665,274, Cl. 585-267.000.
Imai, Akio; Okamoto, Yasushi; and Saito, Masatoshi, 4,639,494, Cl. 525-271.000.
Imai, Akio; Okamoto, Yasushi; and Saito, Masatoshi, 4,710,554, Cl. 526-180.000.
Isao, Matsuura; Kobayashi, Masanori; and Wakatsuki, Akira, 4,659,764, Cl. 524-399.000.
Kadokura, Hidekimi; Umezaki, Hiroshi; and Higuchi, Yoshihiro, 4,650,895, Cl. 556-182.000.
Kadokura, Hidekimi; Umezaki, Hiroshi; and Murakami, Hideaki, 4,671,993, Cl. 428-323.000.
Kadokura, Hidekimi; Umezaki, Hiroshi; Murakami, Hideaki; and Mizoe, Toshiyuki, 4,704,266, Cl. 423-600.000.
Kakugo, Masahiro; and Wakatsuki, Kizuku, 4,663,394, Cl. 525-297.000.
Kato, Yasuyuki; Yuyama, Masahiro; Moritani, Masahiko; and Iijima, Susumu, 4,661,571, Cl. 526-216.000.
Kato, Yasuyuki; Yuyama, Masahiro; Moritani, Masahiko; and Futagami, Mikio, 4,699,964, Cl. 526-193.000.
Katsuki, Hiroshi; and Daimon, Akio, 4,707,514, Cl. 524-505.000.
Kayane, Yutaka; Sawamoto, Hirokazu; Omura, Takashi; and Harada, Naoki, 4,698,421, Cl. 534-642.000.
Kayane, Yutaka; Sawamoto, Hirokazu; Omura, Takashi; Harada, Naoki; and Takeshita, Akira, 4,701,524, Cl. 534-642.000.
Kisida, Hiroshi; Yamamoto, Haruyasu; and Yano, Toshihiko, 4,663,339, Cl. 514-394.000.
Kisida, Hiroshi; Nishida, Sumio; and Hatakoshi, Makoto, 4,714,706, Cl. 514-345.000.
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,670,529, Cl. 526-348.100.
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,675,247, Cl. 428-349.000.
Kobayashi, Mineo; Yoshida, Takeshi; Aoki, Masahiro; Okubo, Masao; and Nagayama, Masaaki, 4,659,397, Cl. 148-12.00E.
Kotera, Norio; Uegaki, Masatoshi; Yoshimura, Masakatsu; Masaki, Shinzaburo; Kaneoya, Tatsuo; Miyaoka, Takashi; Maegawa, Yuzo; and Fukasawa, Akira, 4,695,407, Cl. 760-378.000.
Maegawa, Yuzo; Takahashi, Yukoh; Okino, Eizo; Kaneoya, Tatsuo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, 4,670,488, Cl. 524-103.000.
Matsuo, Noritada; Tsushima, Kazunori; Nishida, Sumio; and Yano, Toshihiko, 4,714,712, Cl. 514-531.000.
Matsuyama, Kiyoshi; Suzuki, Takatoshi; and Chigusa, Takeshi, 4,713,444, Cl. 528-502.000.
Minai, Masayoshi; and Katsura, Tadashi, 4,665,174, Cl. 544-59.00.
Minai, Masayoshi; and Ueda, Yuji, 4,683,323, Cl. 558-52.000.
Minai, Masayoshi; and Ueda, Yuji, 4,714,752, Cl. 568-347.000.
Mitsuno, Tatsuyuki; Koyama, Teruhisa; Shimonaga, Hideo; and Daimon, Akio, 4,686,257, Cl. 524-449.000.
Miyamoto, Tetsuya; Omura, Takashi; Harada, Naoki; and Takeshita, Akira, 4,684,721, Cl. 540-126.000.
Murawka, Masami; Nakamura, Toshio; Sugie, Akihiko; Ono, Koichi; and Yamamoto, Michihiro, 4,680,307, Cl. 514-460.000.
Murata, Yukio; and Suzuka, Masakazu, 4,635,213, Cl. 364-526.00.
Nagano, Eiki; Haga, Toru; Sato, Ryo; and Morita, Kouichi, 4,640,707, Cl. 71-96.000.
Nagano, Eiki; Takemoto, Ichiki; Fukushima, Masayuki; Yoshida, Ryo; and Matsumoto, Hiroshi, 4,670,045, Cl. 71-92.000.
Nagano, Eiki; Hashimoto, Shunichi; Yoshida, Ryo; Matsumoto, Hiroshi; and Kamoshita, Katsuzo, 4,670,046, Cl. 71-96.500.
Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,684,397, Cl. 71-96.000.
Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,709,049, Cl. 548-513.000.
Nakamatsu, Toshio; Matsuo, Yoshikazu; and Tezuka, Yasuo, 4,667,022, Cl. 534-638.000.
Nakamatsu, Toshio; Matsuo, Yoshikazu; Nishikuri, Masao; and Imada, Kunihiko, 4,690,686, Cl. 8-638.000.
Nakamatsu, Toshio; Miyamoto, Tetsuya; and Imada, Kunihiko, 4,711,641, Cl. 8-524.000.
Nakano, Kazuhiko; and Watanabe, Kenichirou, 4,687,675, Cl. 427-2.000.
Nakatsuka, Iwao; Shimizu, Hiroshi; and Yoshitake, Akira, 4,687,852, Cl. 546-20.000.
Nakayama, Koji; Yoshida, Ryo; and Morita, Kouichi, 4,702,784, Cl. 71-92.000.
Nishimuta, Kouichi; Izumi, Kazuo; and Shimogi, Kazue, 4,685,95[illegible], Cl. 71-78.000.
Niwa, Kenji; and Ichikawa, Ichiro, 4,673,554, Cl. 423-63.000.
Noguchi, Hiroshi; Kato, Toshiro; Takahashi, Junya; Ishgur, Yukio; Yamamoto, Shigeo; and Hirata, Naonori, 4,666,943, Cl. 514-627.000.
Okamoto, Akinori; Yamaguchi, Tetsuo; Okamura, Haruki; and Okino, Eizo, 4,687,756, Cl. 502-165.000.
Omura, Takashi; Sunami, Masaki; and Tezuka, Yasuo, 4,663,440, Cl. 534-637.000.
Ooishi, Tadashi, 4,684,634, Cl. 514-144.000.
Saito, Kiichi; Aoki, Masahiro; Ikeda, Noriyasu; Miki, Masayoshi; and Nagayama, Masaaki, 4,653,684, Cl. 228-263.150.
Saito, Teruo; Asai, Kunaki; Suzuki, Yasuro; and Kagiya, Ko, 4,640,961, Cl. 525-444.000.
Saito, Teruo; and Hieda, Kazuo, 4,699,944, Cl. 524-413.000.
Saito, Yasuhisa; Morii, Akira; and Nakamura, Hiroshi, 4,663,40[illegible], Cl. 525-505.000.
Saito, Yasuhisa; Takagishi, Hisao; Watanabe, Katsuya; Okano, Kohichi; Kenmei, Junichi; and Kamio, Kunimasa, 4,705,833, Cl. 525-504.000.
Sasaki, Mitsuru; and Oguri, Yukio, 4,701,209, Cl. 71-97.000.
Sasaki, Toshio; Katao, Masaaki; Kawai, Kiyoshi; and Shiga, Akinobu, 4,672,050, Cl. 502-116.000.
Sato, Hiroshi; Ishii, Norio; and Hirose, Kenichi, 4,642,459, Cl. 585-486.000.
Sato, Hiroshi; Ishii, Norio; and Hirose, Kenichi, 4,654,457, Cl. 585-486.000.
Sato, Hiroshi; Ikimi, Kiyoshi; Tojima, Hideto; and Takahashi, Mikoto, 4,709,112, Cl. 585-513.000.
Shiga, Akinobu; Sasaki, Toshio; and Kojima, Junpei, 4,645,808, Cl. 526-119.000.
Shiga, Akinobu; Kakugo, Masahiro; Kozima, Junpei; and Wakatsuki, Kizuku, 4,696,979, Cl. 525-247.000.
Shimidzu, Yasutaka; Harada, Naoki; and Tezuka, Yasuo, 4,644,055, Cl. 534-635.000.
Shirafuji, Tamio; Sakai, Kiyomi; and Kawata, Itaru, 4,670,612, Cl. 568-899.000.
Shirafuji, Tamio; and Kawata, Itaru, 4,691,064, Cl. 568-835.000.
Shirafuji, Tamio; Sakai, Kiyomi; and Hirose, Ken-ichi, 4,716,253, Cl. 568-895.000.
Sugimoto, Hiroaki; Hayatsu, Kazuo; and Fujiwara, Masahiro, 4,713,435, Cl. 528-179.000.
Suzukamo, Gohfu; and Fukao, Masami, 4,644,080, Cl. 560-124.000.
Suzukamo, Gohfu; and Fukao, Masami, 4,659,864, Cl. 560-124.000.
Suzukamo, Gohfu; Fukao, Masami; Minobe, Masao; and Sakamoto, Akemi, 4,711,873, Cl. 502-344.000.
Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,582, Cl. 514-482.000.
Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Ishgur, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,583, Cl. 514-482.000.
Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,584, Cl. 514-485.000.
Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,666,938, Cl. 514-479.000.

, Junya; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Kato, Toshiro; and Kamoshita, Katsuzo, 4,672,070, Cl. .000.
, Junya; Sasaki, Mitsuru; Noguchi, Hiroshi; and Kato, , 4,686,232, Cl. 514-365.000.
, Junya; Kato, Toshiro; and Kamoshita, Katsuzo, n, Cl. 514-485.000.
, Junya; Kato, Toshiro; and Kamoshita, Katsuzo, 4, Cl. 514-485.000.
, Yukio; Kaneoya, Tatsuo; Obino, Eizo; Maegawa, Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, 9, Cl. 524-103.000.
royoshi; Yoshida, Nobuyuki; and Imai, Akio, 4,647,614, 526.000.
, Ichiki; Sumida, Seizo; Yoshida, Ryo; and Kamoshita, , 4,690,709, Cl. 71-120.000.
egusa; Horikawa, Jiro; Niwano, Masahiro; and Kana- akeuchi, 4,650,608, Cl. 540-451.000.
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Hiroki; Yano, Toshihiko; Takeda, Hisami; and Hirata, , 4,668,693, Cl. 514-399.000.
Hiroki; Ooishi, Tadashi; Takahashi, Junya; Sasaki, Mit- i Hirata, Naonori, 4,709,052, Cl. 548-548.000.
, Koichiro; and Ohtsuka, Ichiro, 4,680,888, Cl. 0.
Kazunori; Matsuo, Noritada; Kisida, Hiroa; and Yano, ko, 4,664,698, Cl. 71-94.000.
Tamon; Inoue, Satoru; and Yamashita, Norihisa, 1, Cl. 514-375.000.
suji; Nagaoka, Kenji; Miyashita, Akira; and Ebisu, Sato- 9,344, Cl. 264-83.000.
ru; Iwata, Mikio; Tanaka, Haruo; and Shirono, Hiroyuki, 1, Cl. 428-519.000.
Katsuyoshi; and Fukuyama, Yoshiya, 4,657,954, Cl. .000.
, Noriaki; Ikeou, Shinnet; and Imada, Kunihiko, 5, Cl. 8-527.000.
shihiko; Takada, Yoji; Tomioka, Hiroki; and Hirata, , 4,689,340, Cl. 514-399.000.
ez Company, Ltd.: *See*—
, Kenichi; and Hirano, Kazuhisa, 4,647,631, Cl. .000.
ro; Inoue, Naomitsu; and Tokunaga, Yukio, 4,694,028, 110.000.
ko; Inoue, Naomitsu; and Tokunaga, Yukio, 4,698,370, 128.000.
ctric Industries, Ltd.: *See*—
oshitada; Tateishi, Hiroshi; Koyama, Kenichi; Saito, and Nagata, Masayuki, 4,659,007, Cl. 228-156.000.
ctric Industries, Ltd.: *See*—
a; and Kikuchi, Eiji, 4,705,482, Cl. 439-460.000.
shi; Hara, Akio; Kobayashi, Mitsunori; and Mori, Yo- , 4,643,620, Cl. 407-119.000.
Michio; Fudo, Eiji; Tani, Koichi; and Kobayashi, o, 4,653,182, Cl. 29-754.000.
ra; Miyake, Measya; and Yazu, Shuji, 4,686,080, Cl. 0.
, Toshiharu; Shen, Zai-ming; Muro, Shoujiro; ma, Shigeru; and Toyooka, Akihisa, 4,709,364, Cl. .000.
osuke; Yamanouchi, Shosuke; Hirose, , Masayuki; ra, Hidemitsu; Mizumoto, Yasuharu; and Hagiuda, , 4,673,607, Cl. 428-172.000.
suke; Yamanouchi, Shosuke; Hirose, Masayuki; Yoshi, , Tsunashima, Kenji; and Horiuchi, Satoshi, 4,675,470, 25.00R.
yozo; and Noda, Shigeru, 4,714,318, Cl. 350-96.210.
Matsuo; Miyake, Masaya; Takeuchi, Hisao; and Kamijo, 9,508, Cl. 252-516.000.
akeshi, 4,673,593, Cl. 427-89.000.
uzuo, 4,661,796, Cl. 340-85.000.
, Masao; Kyoto, Michihisa; Yano, Koji; and Tanaka, 4,693,738, Cl. 65-3.110.
hi, 4,636,070, Cl. 356-73.100.
hi, 4,714,343, Cl. 356-73.100.
kihiko; and Tobioka, Masaaki, 4,675,206, Cl. 427-38.00.0
ri; Moriai, Yasuharu; Sakatani, Atushi; and Yoshida, , 4,688,149, Cl. 361-399.000.
; and Takahashi, Shinichiro, 4,686,483, Cl. 328-165.000.
nuichi; and Yamashita, Yukinori, 4,659,444, Cl. 000.
hiaki; Matsuno, Koichiro; Suzuki, Shuzo; Ashiya, ; and Ishihara, Koushi, 4,708,433, Cl. 350-96.220.
iroo; Kato, Chiaki; and Fujii, Yoshiharu, 4,633,805, Cl. 0.
Akihisa; Tada, Kohji; Kotani, Toshihiro; and Miyazawa, , 4,684,515, Cl. 423-495.000.
enichi, 4,694,563, Cl. 437-40.000.
Yoshinobu; Saito, Yasunori; and Okano, Mikihiko, , Cl. 350-96.230.
itsuo; Miyake, Masaya; Nakano, Minol; Asai, Tsuyoshi; , Akio, 4,639,352, Cl. 419-15.000.
hinzo; Yamashita, Shinzo; Irie, Masahiro; Osawa, Yo- nd Uemiya, Takafumi, 4,656,245, Cl. 528-405.000.
uhisa, 4,637,661, Cl. 303-24.00A.
Kohno, Teruhisa; Nokubo, Seiji; and Matsuoka, Akio, 4,673,220, Cl. 303-6.00C.
Kohno, Teruhisa, 4,688,859, Cl. 303-6.00C.
Kuroishi, Nobuhito; Motooka, Naoki; Sugamma, Tetsuya; and Manabe, Akira, 4,671,491, Cl. 251-368.000.
Kyoto, Michihisa; Ishiguro, Yoichi; Kawauchi, Hiroshi; and Tanaka, Gotaro, 4,655,808, Cl. 65-3.120.
Kyoto, Michihisa; Watanabe, Minoru; and Ishiguro, Yoichi, 4,664,690, Cl. 65-3.120.
Masuda, Shigeo; Katsuda, Morihiko; and Ueoka, Isao, 4,647,474, Cl. 427-44.000.
Matsuyama, Fumio; and Kato, Chiaki, 4,668,537, Cl. 427-401.000.
Mizutani, Futoshi; Tanaka, Gotaro; and Kanamori, Hiroo, 4,666,488, Cl. 65-3.120.
Mori, Akinori, 4,638,114, Cl. 174-36.000.
Morooka, Mikio; and Shimizu, Atsushi, 4,670,176, Cl. 252-62.3GA.
Nakagawa, Mitsuhiko; and Nitto, Fumiaki, 4,665,108, Cl. 523-152.000.
Nakagawa, Mitsuhiko; and Nitto, Fumiaki, 4,672,082, Cl. 523-153.000.
Nakagawa, Mitsuhiko; and Nitto, Fumiaki, 4,678,818, Cl. 523-157.000.
Nakai, Ryusuke; Takebe, Toshihiko; and Yamazaki, Hajime, 4,636,280, Cl. 156-603.000.
Nakai, Tetsuo; and Yazu, Shuji, 4,636,253, Cl. 75-239.000.
Nakai, Tetsuo; and Goto, Mitsuhiro, 4,693,746, Cl. 75-238.000.
Nishimura, Masayuki; Suzuki, Shuzo; and Yokoto, Hiroshi, 4,715,695, Cl. 350-96.310.
Nishiwaki, Yoshikazu; and Nishiura, Yozo, 4,641,913, Cl. 350-96.110.
Nishiwaki, Yoshikazu; Matsuoka, Shunji; and Okamoto, Kenji, 4,673,241, Cl. 350-3.640.
Nishizawa, Hideaki, 4,636,647, Cl. 250-551.000.
Odani, Yusuke; Akechi, Kiyoaki; and Kuroishi, Nobuhito, 4,702,885, Cl. 419-23.000.
Ohsawa, Yoshitaka; Shibata, Yutaka; Niwa, Shin-ichiro; Nishimura, Akira; and Uemiya, Takafumi, 4,708,833, Cl. 264-1.500.
Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, 4,671,754, Cl. 425-66.000.
Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, 4,705,544, Cl. 55-158.000.
Ono, Kimizo; and Nishimura, Akira, 4,681,093, Cl. 128-6.000.
Osaka, Kenji; Usui, Yuichi; and Yanagi, Tooru, 4,715,876, Cl. 65-4.210.
Saegusa, Yasuyoshi, 4,657,492, Cl. 418-150.000.
Saegusa, Yasuyoshi, 4,673,342, Cl. 418-150.000.
Saito, Yasunori; Ichikawa, Osamu; and Oshima, Toshio, 4,701,015, Cl. 350-96.230.
Sakamoto, Katsuji, Obta, Akio; Toda, Yuichi; Suzuki, Shuzo; and Ide, Takashi, 4,676,635, Cl. 356-73.100.
Sawada, Kazuo, 4,637,846, Cl. 148-402.000.
Sawada, Kazuo; Takano, Satoshi; and Ezaki, Shigeo, 4,673,790, Cl. 219-69.00W.
Sawada, Kazuo, 4,702,302, Cl. 164-463.000.
Shimizu, Yasuhiro; and Doi, Akira, 4,634,600, Cl. 427-38.000.
Suzuki, Shuzo; Ogasawara, Ichiro; Yokota, Hiroshi; and Sumida, Shim, 4,653,852, Cl. 350-96.330.
Suzuki, Tomihiro, 4,709,251, Cl. 357-22.000.
Tabata, Yusuke; Hayasaka, Eiji; Hashimoto, Toshitomo; Horima, Hiroaki; Omori, Toshiyuki; and Kurosawa, Akira, 4,662,712, Cl. 350-96.230.
Tada, Koji; and Kuhara, Yoshiki, 4,662,711, Cl. 350-96.120.
Tada, Koji; Tatsumi, Masami; Kotani, Toshihiro; and Sawada, Shimchi, 4,678,534, Cl. 156-607.000.
Tada, Kunio; Nishiwaki, Yoshikazu; and Matsuoka, Shunji, 4,685,763, Cl. 350-96.140.
Takada, Hisashi, 4,638,152, Cl. 250-214.00A.
Takahashi, Shinichiro; and Isshiki, Isao, 4,691,330, Cl. 377-39.000.
Takata, Koji; Nishiyama, Yukinori; and Shinomiya, Takashi, 4,667,476, Cl. 60-545.000.
Takata, Koji; and Nishiyama, Yukinori, 4,693,521, Cl. 303-103.000.
Takata, Koji; and Nishiyama, Yukinori, 4,714,299, Cl. 303-100.000.
Takimoto, Hiroaki; and Tsuchiya, Ichiro, 4,661,140, Cl. 65-157.000.
Tanaka, Gotaro; Fujiwara, Kunio; and Matsuda, Yasuo, 4,664,474, Cl. 350-96.340.
Tanaka, Gotaro; Mizutani, Futoshi; Yoshioka, Naoki; and Kanamori, Hiroo, 4,675,040, Cl. 65-3.120.
Tatsumi, Masami; Sawada, Shin-ichi; and Nakai, Ryusuke, 4,634,490, Cl. 156-601.000.
Tsuji, Yoshiomi; and Naitoh, Hajime, 4,661,015, Cl. 405-115.000.
Tsuji, Yoshiomi; Maruyama, Ichiro; and Takuma, Hiroshi, 4,696,598, Cl. 405-115.000.
Tsuno, Koichi, 4,640,577, Cl. 350-96.250.
Tsuno, Koichi, 4,708,434, Cl. 350-96.260.
Uchioke, Fumikiyo; Ogasawara, Ichiro; and Suzuki, Shuzo, 4,703,998, Cl. 350-96.230.
Ueba, Yoshinobu; and Miyake, Shinichi, 4,681,400, Cl. 350-96.340.
Watanabe, Kanji; Mizoe, Mikio; and Inoo, Eiji, 4,643,929, Cl. 428-36.000.
Watanabe, Kanji; and Mizoe, Mikio, 4,661,387, Cl. 428-36.000.
Yamakawa, Akira; Takeda, Yoshinobu; and Kamijo, Eiji, 4,660,114, Cl. 360-122.000.
Yamanishi, Toru; Kameo, Yuji; Yoshida, Masaaki; Yuto, Masao; and Tanaka, Chihaya, 4,655,545, Cl. 350-96.340.
Yamazaki, Takashi; and Sakamoto, Katsuji, 4,641,794, Cl. 242-47.010.

Yazu, Shuji; Sumiya, Hitoshi; and Degawa, Junji, 4,699,687, Cl. 156-603.000.
Yokota, Hiroshi; Tanaka, Gotaro; Kanamori, Hiroo; Mizutani, Futoshi; and Danzuka, Toshio, 4,668,263, Cl. 65-3.110.
Yoshida, Masaaki; Endo, Shigeki; Kisanuki, Shigeru; and Kakuzen, Hideo, 4,713,107, Cl. 65-157.000.
Yoshida, Noriyuki; and Takahashi, Kenichi, 4,678,327, Cl. 356-73.100.
Yuto, Masso; and Suzuki, Yoichi, 4,683,166, Cl. 428-314.800.

Sumitomo Electric Research Triangle, Inc.: *See*—
Nishimura, Masayuki; and Hatton, William H., 4,662,743, Cl. 356-73.100.
Sato, Yasunori; and DeAngeles, John, 4,715,677, Cl. 350-96.230.

Sumitomo Forestry Co., Ltd.: *See*—
Shigemitsu, Haruhiro, 4,647,537, Cl. 435-178.000.

Sumitomo Gomu Kogyo Kabushiki Kaisha: *See*—
Furukawa, Genzo, 4,655,635, Cl. 404-108.000.

Sumitomo Heavy Industries, Ltd.: *See*—
Fujita, Kenji; Kawase, Katsumi; and Takigawa, Noboru, 4,654,087, Cl. 134-6.000.
Haruguchi, Kenji; Kohguchi, Takuma; and Sekiya, Osamu, 4,712,499, Cl. 114-77.00R.
Kawakami, Takashi, 4,637,452, Cl. 164-420.000.
Noda, Takaaki; and Terai, Hiroshi, 4,648,887, Cl. 55-2.000.
Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.
Sattoh, Hajime; and Maeda, Morio, 4,678,883, Cl. 219-10.61R.
Takahashi, Mitsuo, 4,715,804, Cl. 425-141.000.
Takigawa, Noboru; Fujita, Kenji; Kawase, Katsumi; and Higaki, Takahiro, 4,668,301, Cl. 134-6.000.

Sumitomo, Hiroshi: *See*—
Hall, Henry K., Jr.; Sumitomo, Hiroshi; and Okada, Maschiko, 4,677,190, Cl. 528-354.000.

Sumitomo Light Metal Industries, Ltd.: *See*—
Ando, Yutaka, 4,653,729, Cl. 237-12.30B.
Baba, Yoshio; and Tsuchida, Shin, 4,645,544, Cl. 148-12.70A.
Inumaru, Susumu; Yamauchi, Shigenori; Shibue, Kazuhisa; Sano, Hideo; and Ito, Kiyofumi, 4,676,830, Cl. 75-249.000.
Itoh, Katsuhisa; Watanabe, Yoshiaki; Nakamura, Eiji; and Toyoshima, Masayasu, 4,684,448, Cl. 204-71.000.
Ohashi, Azusa; Shirai, Akira; Sakaki, Hirokazu; Tanabe, Zenichi; Tsuchida, Shin; and Hayashi, Yoshikatsu, 4,634,656, Cl. 430-278.000.
Sugiyama, Yoshihiko; Nanba, Keizo; Hagiwara, Michiki; Aoki, Takeshi; Iwasaki, Shosuke; and Abiko, Tetsuo, 4,673,551, Cl. 420-535.000.
Takizawa, Kazushige; Sakaki, Hirokazu; Abe, Yuji; Matsuo, Mamoru; Tajiri, Akira; and Tsuchida, Shin, 4,686,083, Cl. 420-548.000.
Tsuchida, Shin; and Ito, Hideo, 4,707,195, Cl. 148-11.50A.
Yoshida, Masahiro; and Inumaru, Susumu, 4,694,888, Cl. 164-467.000.

Sumitomo Metal Co., Ltd.: *See*—
Ogino, Yoshio; Shimomoto, Takeshi; and Hiraoka, Osamu, 4,665,324, Cl. 307-126.000.

Sumitomo Metal Industries, Ltd.: *See*—
Ando, Takehiro; Kimura, Hideo; Oda, Noriyuki; Asai, Takeji; Mochizuki, Ken; Fujihara, Toshihisa; and Maeda, Katsuji, 4,642,127, Cl. 55-20.000.
Arai, Tomio; Nakagawa, Takao; Mogi, Fumio; and Oshiguri, Noriaki, 4,663,021, Cl. 208-67.000.
Arakawa, Kazumi; Hirao, Toshiyuki; Sugiura, Kenji; Kuroki, Satoshi; Hiraki, Sei; Suzuki, Takao; and Nakai, Ken, 4,640,336, Cl. 164-440.000.
Hagita, Hyoji; Fukuda, Takashi; Maeda, Shigeru; Imamura, Hideo; Ogata, Kazutosi; and Fukuoka, Masahiro, 4,688,411, Cl. 72-42.000.
Hatono, Akio; and Kobayashi, Sumio, 4,693,614, Cl. 374-122.000.
Igarashi, Masaaki; Okada, Yasutaka; Yoshikawa, Kunihiko; and Kudo, Takeo, 4,652,315, Cl. 148-12.70R.
Ikeda, Satoshi; and Suzuki, Nobukazu, 4,707,415, Cl. 428-621.000.
Iwahashi, Tohru; Sunami, Yoshihiko; and Miyamura, Tadashi, 4,671,907, Cl. 264-29.500.
Kajimura, Haruhiko; Nagano, Hiroo; and Miura, Minoru, 4,640,817, Cl. 420-50.000.
Kajimura, Haruhiko; Nagano, Hiroo; and Miura, Minoru, 4,671,929, Cl. 420-44.000.
Kasai, Tatsushi; Nikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,689,146, Cl. 210-197.000.
Kasai, Tatsushi; Nikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,710,215, Cl. 62-532.000.
Karimoto, Tatsuo; Hoboh, Yoshihiko; Ohishi, Hiroshi; Noumi, Ryoichi; and Wakano, Shigeru, 4,659,631, Cl. 428-624.000.
Kusaba, Yoshiaki; and Hayashi, Chihiro, 4,669,293, Cl. 72-235.000.
Matsuura, Yasuhiro, 4,637,841, Cl. 148-12.00E.
Masui, Takeshi, 4,651,549, Cl. 72-161.000.
Masui, Takeshi; Yasui, Eizo; and Matsuda, Yukio, 4,658,620, Cl. 72-234.000.
Minami, Takao; Nagano, Hiroo; Yamanaka, Kazuo; Okada, Yasutaka; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; and Sasaguri, Nobuya, 4,715,909, Cl. 148-410.000.
Sakai, Toshihiko; and Narita, Yuji, 4,649,858, Cl. 118-697.000.
Sakamoto, Takahide; Hiroshima, Tatsuo; Matsubara, Noriyuki; and Miyata, Kenichi, 4,641,092, Cl. 324-227.000.
Sakamoto, Takahide; and Hiroshima, Tatsuo, 4,673,877, Cl. 324-225.000.
Tahara, Akihiro; and Kondo, Katsuya, 4,633,693, Cl. 72-8.000.
Wada, Minoru; Hidaka, Chikara; and Noma, Takeshi, 4,697,744, Cl. 241-20.000.
Yamada, Tsuneo; Sakashita, Tsutomu, Tomono, Hiroshi; Kimura, Takashi; Maehara, Yasuhiro; and Yasumoto, Kunio, 4,709,572, Cl. 72-366.000.
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yaautaka, Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.

Sumitomo Metal Mining Company Limited: *See*—
Ishii, Junichi; and Oka, Koichi, 4,664,723, Cl. 148-301.000.
Ishikawa, Haruo; and Fujii, Yoshimasa, 4,684,208, Cl. 350-96.15.
Kato, Yoshihisa, 4,633,583, Cl. 29-827.000.
Kimura, Takayoshi; and Tsuyuguchi, Seiichi, 4,661,152, Cl. 75-76.000.
Kimura, Takayoshi; Tsuyuguchi, Seiichi; and Mori, Yoshiaki, 4,695,317, Cl. 75-24.000.
Kimura, Takayoshi; Tsuyuguchi, Seiichi; and Mori, Yoshiaki, 4,707,185, Cl. 75-24.000.
Kubo, Shigeki, 4,666,575, Cl. 204-105.00R.
Kubo, Shigeki; and Yamamoto, Osamu, 4,675,171, Cl. 42-617.00.
Maetani, Kazuo; and Wada, Keisuke, 4,675,093, Cl. 204-224.00R.
Matsumoto, Kazutoshi; Nakamura, Tetsuro; Hyuga, Takehiro; and Ichimura, Hiroshi, 4,692,421, Cl. 501-136.000.
Matsunaga, Ichiro; and Sugai, Hiroshi, 4,642,203, Cl. 252-631.00.
Miyashita, Hiroichi; Nakazawa, Hajime; and Hisatsune, Masayuki, 4,663,279, Cl. 423-25.000.
Miyoshi, Akio; and Fukami, Akira, 4,640,436, Cl. 220-359.000.
Nate, Tatsuo; Oka, Koichi; and Sato, Takehiko, 4,689,073, Cl. 75-0.5BA.
Okajima, Yasuhiro; Tsugita, Yasuhiro; Takechi, Tamaki; and Okada, Syuji, 4,681,623, Cl. 75-0.50B.
Yamazaki, Shinsuke; Takeda, Rikio; and Uda, Iwao, 4,710,349, Cl. 420-495.000.

Sumitomo Naugatuck Co., Ltd.: *See*—
Kodama, Mikio; and Ito, Akitoshi, 4,657,975, Cl. 525-74.000.
Kodama, Mikio; Ito, Akitoshi; Yano, Motoichi; Fujiwara, Takayoshi; and Umeyama, Satoshi, 4,705,827, Cl. 525-67.000.

Sumitomo Pharmaceuticals Company: *See*—
Ishizumi, Kikuo; Ohashi, Naohito; Tanno, Norihiko; Sato, Hiromi; Fukui, Masaru; and Morisada, Shinya, 4,673,668, Cl. 514-34.00.

Sumitomo Pharmaceuticals Company, Limited: *See*—
Katsube, Junki; Nakamura, Mitsutaka; and Maeda, Yuko, 4,647,587, Cl. 514-567.000.
Ohashi, Naohito; Nagata, Shoji; Nakatsuka, Masashi; Ishizumi, Kikuo; Katsube, Junki; Aono, Shunji; and Sakurama, Teruo, 4,695,580, Cl. 514-412.000.
Yamada, Hirotada; Masai, Naruhito; Ueda, Sinji; Okuda, Takao; Fukasawa, Masatomo; Kato, Masuhiro; and Fukumura, Masataka, 4,705,784, Cl. 514-202.000.
Yamamoto, Michihiro; Ozato, Yukinori; Tamura, Nobuhiko; Miyagishi, Akira; and Hara, Youichi, 4,705,786, Cl. 514-252.00.
Yoshida, Mitsuo; Mizuno, Yoshikuni; Shimizu, Natsue; Otsuka, Mieko; Dobutsu, Masakatsu; Furukawa, Yuusuke; and Joshita, Yutaka, 4,690,949, Cl. 514-561.000.

Sumitomo Precision Products Co., Ltd.: *See*—
Iwasaki, Shosuke; Abiko, Tetsuo; Hagiwara, Michiki; and Nanba, Keizo, 4,636,356, Cl. 420-532.000.
Kanda, Atsushi; Kitani, Kazuo; and Shirai, Kiichirou, 4,705,102, Cl. 165-104.330.
Sugiyama, Yoshihiko; Nanba, Keizo; Hagiwara, Michiki; Aoki, Takeshi; Iwasaki, Shosuke; and Abiko, Tetsuo, 4,673,551, Cl. 420-535.000.

Sumitomo Rubber Industries, Ltd.: *See*—
Hayata, Naohiro, 4,691,431, Cl. 29-526.00R.
Iuchi, Munenori, 4,688,616, Cl. 152-541.000.
Iuchi, Munenori, 4,699,194, Cl. 152-543.000.
Iuchi, Munenori, 4,705,091, Cl. 152-541.000.
Kawakami, Masafumi; and Nishimura, Takashi, 4,664,167, Cl. 152-209.00R.
Kusube, Haruo; Ochiai, Kiyoshi; Fukumoto, Tetsuhiro; and Takechi, Akihiro, 4,703,788, Cl. 152-209.00R.
Nakahara, Akihiro; and Matsuki, Taketo, 4,714,253, Cl. 273-228.000.
Nakasaki, Eiji; Shirashoji, Hisashi; Hoshikawa, Katsuyuki; Kamiya, Takao; Ikeda, Kazushige; Inoue, Yasuhiro; and Kato, Takeo, 4,640,329, Cl. 152-209.00R.
Ohtsuji, Masaru; Itoh, Tomonori; Honda, Takashi; Ando, Shinobu; and Matsui, Kazumi, 4,657,475, Cl. 414-786.000.
Yamada, Mikio; and Hamada, Akihiko, 4,679,794, Cl. 273-235.00R.

Sumitomo Special Metal Co. Ltd.: *See*—
Miyamoto, Toshinobu; Hayashi, Hiroo; Sakurai, Hideya; Takabayashi, Hirofumi; and Ohnishi, Youichi, 4,679,022, Cl. 335-296.000.

Sumitomo Special Metals Co., Ltd.: *See*—
Matsuura, Yutaka; Sagawa, Masato; and Fujimura, Setsuo, 4,684,406, Cl. 75-244.000.
Wada, Toshiaki; Nakaoka, Junichi; and Sugano, Takayuki, 4,636,420, Cl. 428-156.000.

...ota, Toshiaki; and Katsuyama, Yoshiaki, 4,659,606, Cl. 428-141.000.
...ota, Toshiaki; Katsuyama, Yoshiaki; and Nakaoka, Junichi, 4,690,846, Cl. 428-64.000.
...mo, Ushigoro, Split mold device for blow-molding crooked ...les, 4,645,447, 2-24-87, Cl. 425-450.100.
...mo Wiring System, Ltd.: *See*—
...atsunaga, Katsumi; and Tsuji, Yoshitsugu, 4,646,052, Cl. 337-166.000.
...mo Wiring Systems, Ltd.: *See*—
...iptani, Mitsuhiro; and Tanaka, Yoshihiro, 4,674,819, Cl. 339-99.00R.
...kuda, Michio; Fudo, Eiji; Tani, Koichi; and Kobayashi, Haruhito, 4,653,182, Cl. 29-754.000.
...shida, Kinji; and Iura, Kazuo, 4,704,855, Cl. 57-58.540.
...a, Hitoshi: *See*—
...aru, Shuji; Sumiya, Hitoshi; and Degawa, Junji, 4,699,687, Cl. 156-603.000.
..., Kenji; and Saito, Osamu, to Hitachi Maxell, Ltd. Magnetic ...rding medium, 4,668,587, 5-26-87, Cl. 428-411.100.
..., Kenji; and Takeuchi, Yoji, to Hitachi Maxell, Ltd. Magnetic ...rding medium, 4,698,279, 10-6-87, Cl. 428-411.100.
..., Kenji: *See*—
...maguchi, Yoshitaka; and Sumiya, Kenji, 4,659,633, Cl. 428-695.000.
..., Koji; Kano, Takenori; Kubo, Seitoku; and Watanabe, Kazuaki, ...isan-Warner Limited; and Toyota Jidosha Kabushiki Kaisha, ...raulic servo for friction coupling element of automatic transmis... 4,682,534, 7-28-87, Cl. 92-130.00R.
..., Koji; Watanabe, Kazuaki; and Kubo, Seitoku, to Aisin-Warner ...ted; and Toyota Jidosha Kabushiki Kaisha, Hydraulic servo for ...on coupling element of automatic transmission, 4,690,037, 9-1-87, ...2-130.00R.
..., Koji; Sakaguchi, Yoshikazu; Taniguchi, Takuji; Taga, Yutaka; Shindo, Yoshio, to Toyota Jidosha Kabushiki Kaisha; and Aisin-...er Kabushiki Kaisha, Lock-up clutch control device for a ...-speed automatic transmission, 4,697,474, 10-6-87, Cl. ...33.000.
..., Koji; and Moroto, Shuzo, to Aisin-Warner Kabushiki Kaisha; Kabushiki Kaisha Shinsangyokaihatsu, Control apparatus for ...wheel drive vehicle, 4,712,635, 12-15-87, Cl. 180-197.000.
..., Koji: *See*—
...hayashi, Koji; Sumiya, Koji; Taga, Yutaka; and Watanabe, Kazuaki, 4,693,353, Cl. 192-85.0AA.
...roto, Shuzo; Sumiya, Koji; Watanabe, Kazuaki; Kubo, Seitoku; Kobayashi, Koji; and Taga, Yutaka, 4,714,146, Cl. 192-85.0AA.
...asawara, Tsunehiko; Arakawa, Yoshihika; Sumiya, Koji; and Sakaguchi, Yoshikazu, 4,633,739, Cl. 74-869.000.
...shi, Hajime, to Kabushiki Kaisha Toshiba, Sync signal repro...g circuit in television receivers, 4,647,970, 3-3-87, Cl. ...50.000.
...shi, Hiroji; and Arae, Teiji, to Sony Corporation, Cathode ray ..., 4,641,059, 2-3-87, Cl. 313-477.00R.
...shi, Masaharu; and Matsunari, Fumio, to Kubushiki Kaisha ...ta Chuo Kenkyusho, Continuously variable vehicular transmis... for reducing transmission torque applied to belt-type continu... variable transmission mechanism, 4,644,821, 2-24-87, Cl. ...9.000.
...shi, Masaharu: *See*—
...guchi, Masaaki; Sumiyoshi, Masaharu; and Oshima, Yujiro, ...,653,694, Cl. 239-533.120.
...shi, Osamu: *See*—
...shino, Hozo; Koshi, Mitsuo; and Sumiyoshi, Osamu, 4,634,952, Cl. 318-811.000.
...shi, Takashi, to Hitachi, Ltd. Method of identifying magnetic ...as tape for journal, 4,652,940, 3-24-87, Cl. 360-5.000.
...wa, Akio: *See*—
...a, Toshimi; Ueno, Takashi; and Sumizawa, Akio, 4,685,302, Cl. ...0-602.000.
...o, Takashi; Abo, Toshimi; and Sumizawa, Akio, 4,660,382, Cl. ...0-602.000.
... Elmer H., to Westinghouse Electric Corp. Elevator car ...062, 7-7-87, Cl. 187-1.00R.
... Herbert, to Siemens Aktiengesellschaft, Compression device for ...ray diagnostic apparatus, 4,658,409, 4-14-87, Cl. 378-37.000.
... Ulrich: *See*—
...rberger, Helmut; and Summa, Ulrich, 4,716,261, Cl. ...1-39.000.
... William J.: *See*—
...ers, Eugene A.; and Summa, William J., 4,659,425, Cl. ...6-630.000.
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Myers, H. Allen, 4,704,866, Cl. 60-449.000.
Nelson, Jeffrey D.; and Scanlon, John F., 4,679,485, Cl. 89-36.020.
Nelson, Jeffrey D.; and Scanlon, John F., 4,715,262, Cl. 89-36.020.
Nguyen, Vietson M.; Dhyanchand, P. John; and Thollot, Pierre S., 4,651,267, Cl. 363-56.000.
Nguyen, Vietson M.; and Dhyanchand, P. John, 4,694,383, Cl. 363-17.000.
Nguyen, Vietson M.; Dhyanchand, P. John; and Thollot, Pierre, 4,695,933, Cl. 363-17.000.
Niggemann, Richard; and Readman, John, 4,643,250, Cl. 165-159.000.
Niggemann, Richard; and Readman, John, 4,690,210, Cl. 165-159.000.
Niggemann, Richard E., 4,637,456, Cl. 165-104.330.
Niggemann, Richard E.; and Ellis, Wilbert E., 4,697,427, Cl. 62-119.000.
Nold, Robert D., 4,712,029, Cl. 310-71.000.
Patel, Navinchandra R., 4,674,178, Cl. 29-598.000.
Quick, David C., 4,689,452, Cl. 200-80.00R.
Readman, John; and Bland, Timothy J., 4,683,389, Cl. 310-62.000.
Riordan, R. Michael, 4,682,938, Cl. 418-1.000.
Rossie, Joseph F., 4,652,782, Cl. 310-217.000.
Russ, David E., 4,641,544, Cl. 74-435.000.
Scanlon, John F.; Sherman, William D.; and Oman, Joel E., 4,673,002, Cl. 138-149.000.
Schaefer, John G.; Aarestad, Jerome K.; and Whitesel, Terry L., 4,714,405, Cl. 415-169.00R.
Scott, Craig H., 4,660,437, Cl. 74-675.000.
Seidel, William E., 4,669,700, Cl. 251-28.000.
Shekhawat, Sampat S.; Dhyanchand, P. John; and Thollot, Pierre, 4,635,177, Cl. 363-41.000.
Shekhawat, Sampat S.; Dhyanchand, P. John; and Thollot, Pierre, 4,670,828, Cl. 363-56.000.
Shepler, John E., 4,672,556, Cl. 364-484.000.
Sheeler, John E.; and Zur, Dov, 4,710,840, Cl. 361-20.000.
Short, Keith E., 4,680,934, Cl. 60-652.000.
Stjern, Daryl C.; and Wirt, Thomas M., 4,653,918, Cl. 356-350.000.
Sugden, Kenneth B., 4,699,171, Cl. 137-468.000.
Sutrina, Thomas A., 4,658,589, Cl. 60-646.000.
Swadley, Gerald L., 4,639,188, Cl. 415-9.000.
Symington, John, 4,637,215, Cl. 60-688.000.
Teske, Duane R.; Senasack, Henry E., Jr.; and Wilkins, Mark, 4,637,272, Cl. 74-424.80R.
Tysver, John, 4,693,349, Cl. 192-7.000.
Upadhyay, Anand; and Messenger, Lawrence W., 4,694,236, Cl. 318-798.000.
Weber, Kent, 4,650,732, Cl. 429-120.000.
Weber, Kent, 4,653,687, Cl. 236-12.110.
Weber, Kent, 4,682,622, Cl. 137-154.000.
Wefel, Jerry D., 4,647,804, Cl. 310-61.000.
Whitehouse, John W., 4,671,737, Cl. 416-165.000.
Wiemer, Douglas, 4,673,031, Cl. 165-39.000.
Wiemer, Douglas, 4,675,804, Cl. 364-161.000.

Williams, Keith R., 4,696,162, Cl. 60-453.000
Sundstrand Data Control, Inc.: *See*—
Bateman, Charles D.; and Grove, Michael M., 4,646,244, Cl. 364-461.000.
Bateman, Charles D., 4,684,948, Cl. 340-970.000.
Brady, Arthur R., 4,700,910, Cl. 244-1.00R.
Burdick, William S., 4,686,567, Cl. 358-150.000.
Chisholm, John P., 4,635,064, Cl. 342-408.000.
Chisholm, John P., 4,680,587, Cl. 342-33.000.
Cline, J. Douglas; Wilson, James A.; Feher, Stanley H.; and Ward, George D., 4,642,775, Cl. 364-443.000.
Fischer, Michael T., 4,674,051, Cl. 364-443.000.
Foote, Steven A., 4,634,965, Cl. 324-60.00C.
Gradin, James H., 4,639,106, Cl. 353-13.000.
Groenewegen, Johannes B., 4,694,119, Cl. 174-52.0PE.
Hulsing, Rand H., II; Peters, Rex B.; and Stemke, Kurt E., 4,672,752, Cl. 33-302.000.
Kirschner, Robert K.; and Mutter, Hans R., 4,647,967, Cl. 358-109.000.
McCormick, Willis G., 4,656,637, Cl. 372-38.000.
Muller, Hans R., 4,644,494, Cl. 364-900.000.
Noland, Lyle J., deceased, 4,675,823, Cl. 364-460.000.
Nolte, David B., 4,634,987, Cl. 328-160.000.
Norling, Brian L., 4,697,455, Cl. 73-497.000.
Paros, Jerome M.; Tonn, Jeffrey F.; and Wearn, Richard B., Jr., 4,706,259, Cl. 374-117.000.
Paterson, Noel S.; and Vermilion, Everette E., 4,639,730, Cl. 340-970.060.
Peters, Rex B., 4,665,748, Cl. 73-505.000.
Peters, Rex B., 4,712,426, Cl. 73-505.000.
Peters, Rex B., 4,712,427, Cl. 73-517.0AV.
Smith, Jeffrey T.; Frazier, David E.; and Leonardson, Ronald B., 4,675,820, Cl. 364-453.000.
Stephenson, Edward A., 4,656,585, Cl. 364-424.000.
Sundstrand Optical Technologies, Inc.: *See*—
Stjern, Daryl C.; and Daly, Frank, 4,653,919, Cl. 356-350.000.
Sundstrom, Inge: *See*—
Legerius, Bengt E.; and Sundstrom, Inge, 4,712,342, Cl. 52-221.000.
Sundstrom, Kaj: *See*—
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Sundstrom, Nils E.: *See*—
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Toivola, Reijo J.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Soderwall, Marja-Liisa; Kangas, Lauri V. M.; Blanco, Guillermo L.; and Sunduiqst, Hannu K., 4,696,949, Cl. 514-648.000.
Sung, Chiakang: *See*—
Millhollan, Michael S.; and Sung, Chiakang, 4,701,636, Cl. 307-297.000.
Sung, Eric; Jeschke, Peter; Schumann, Klaus; and Altenschoepfer, Theodor, to Henkel Kommanditgesellschaft auf Aktien: Dishwashing compositions comprising an enzyme and a C_8–C_{10} alkanol with 0–2 moles of propylene oxide, 4,692,260, 9-8-87, Cl. 252-99.000.
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Sung, Lan C., to Chu, David T.: Tennis ball throwing machine, 4,699,378, 10-13-87, Cl. 273-29.00A.
Sung, Rodney L.; and Jenkins, Robert H., Jr., to Texaco Inc.: Polyol-acid anhydride-N-alkyl-alkylene diamine reaction product and motor fuel composition containing same, 4,643,737, 2-17-87, Cl. 44-63.000.
Sung, Rodney L.; and Jenkins, Robert H., Jr., to Texaco Inc.: Polyoxyisopropylenediamine-acid anhydride-n-alkyl-alkylene diamine reaction product and motor fuel composition containing same, 4,643,738, 2-17-87, Cl. 44-63.000.
Sung, Rodney L.; Caggiano, Michael A.; and Behrens, Milton D., to Texaco Inc.: Motor fuel composition, 4,659,336, 4-21-87, Cl. 44-62.000.
Sung, Rodney L., to Texaco Inc.: Maleic anhydride-polyether-polyamine reaction product and motor fuel composition containing same, 4,659,337, 4-21-87, Cl. 44-63.000.
Sung, Rodney L.; Zoleski, Benjamin H.; and O'Rourke, Ronald L., to Texaco Inc.: Railway diesel crankcase lubricant, 4,676,917, 6-30-87, Cl. 252-51.50A.
Sung, Rodney L., to Texaco Inc.: Storage-stabilizing additives for middle distillate fuels, 4,689,051, 8-25-87, Cl. 44-72.000.
Sung, Rodney L.; Zoleski, Benjamin H.; and O'Rourke, Ronald L., to Texaco Inc.: Haze, oxidation, and corrosion resistant diesel engine lubricant, 4,705,642, 11-10-87, Cl. 252-47.500.
Sung, Rodney L.: *See*—
Zoleski, Benjamin H.; Crawford, Wheeler C.; and Sung, Rodney L., 4,681,694, Cl. 252-51.50R.
Sung, Rodney L. D.: *See*—
Sweeney, William M.; Zoleski, Benjamin H.; Sung, Rodney L. D.; and Crawford, Wheeler C., 4,704,217, Cl. 252-32.70E.
Sungene Technologies Corporation: *See*—
Cheng, David S. K., 4,666,844, Cl. 435-240.000.
Close, Kelly R., 4,665,030, Cl. 435-240.000.
Cooley, Gloria L.; and Wilcox, Anne S., 4,670,391, Cl. 435-240.000.
Cooley, Gloria L.; and Wilcox, Anne S., 4,670,392, Cl. 435-240.000.
Hemphill, John K.; and Eikenberry, Eric J., 4,684,612, Cl. 435-240.500.
Wilcox, Anne S.; and Cooley, Gloria L., 4,673,648, Cl. 435-240.000.
Sunkel, Carlos E.; Fau de Casa-Juana, Miguel; Statkow, Peter R.; and Straumann, Danielle, to Cermol S.A.: Esters of 1,4-dihydropyridines, processes for the preparation of the new esters, and medicaments containing the same, 4,656,181, 4-7-87, Cl. 514-356.000.
Sunkist Growers, Inc.: *See*—
Borgman, Bradley N.; Cramer, Jerry W.; and Dossey, Don E., 4,712,818, Cl. 294-64.100.
Conway, Tim D., 4,693,607, Cl. 356-380.000.
Miller, Dennis H.; and Mutka, Jerry R., 4,707,167, Cl. 426-96.00.
Sunnen Products Company: *See*—
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Sunohara, Masaaki: *See*—
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Sunohara, Masayuki: *See*—
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Sunohara, Tadaomi: *See*—
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Sunpower, Inc.: *See*—
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Redlich, Robert W., 4,642,547, Cl. 322-1.000.
Sunray, Bernard: Delayed-release suspension device, 4,655,719, 4-7-87, Cl. 446-59.000.
Sunrise Research, Inc.: *See*—
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Sunset Ltd.: *See*—
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Sunshine, Abraham; Laska, Eugene M.; and Siegel, Carole E., to Analgesic Associates: Analgesic and anti-inflammatory composition comprising caffeine and methods of using same, 4,656,177, 4-7-87, Cl. 514-264.000.
Sunshine, Abraham; Laska, Eugene M.; and Siegel, Carole E., to Richardson-Vicks, Inc.: Analgesic and anti-inflammatory composition comprising diphenhydramine and methods of using same, 4,683,241, 7-28-87, Cl. 514-557.000.
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Sunstar Giken Kabushiki Kaisha: *See*—
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Sunstar Kabushiki Kaisha: *See*—
Hasegawa, Kenji; Sakano, Yasuo; Katsuragi, Yasuhiro; Amino, Kenji; and Sugihara, Kunio, 4,675,184, Cl. 424-85.000.
Joyashiki, Hisashi; Iwasawa, Minoru; Oohgashi, Masakazu; and Terai, Masao, 4,710,995, Cl. 15-22.00R.
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Sunstrand Corporation: *See*—
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Sunsweet Growers, Inc.: *See*—
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Suntec Industries Incorporated: *See*—
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Sunter, Stephen K.: *See*—
Tsiakas, Nicholas; Sunter, Stephen K.; Wellard, Ronald G.; and Sasaki, Lawrence H., 4,646,289, Cl. 370-76.000.
Suntori Limited: *See*—
Tatsuoka, Toshio; Suzuki, Kenji; Imao, Kayoko; Satoh, Fumi; Miyano, Seiji; and Sumoto, Kunihiro, 4,713,453, Cl. 544-60.00.
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Cho, Hidetsura; Aisaka, Kazuo; and Emon, Mariko, 4,640,922, Cl. 514-256.000.
Cho, Hidetsura; Aisaka, Kazuo; Sato, Fumio; and Ishihara, Takafumi, 4,683,234, Cl. 514-256.000.
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Honda, Tadashi; and Nakanishi, Toshihiro, 4,698,423, Cl. 536-24.000.
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Tanaka, Takaharu; Higuchi, Naoki; Saito, Masayuki; and Hashimoto, Masaki, 4,701,210, Cl. 71-98.000.

Tanaka, Takaharu; Satoh, Masayuki; Hashimoto, Masaki; and Higuchi, Naoki, 4,701,465, Cl. 514-423.000.
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Yuhsho Sharyo Manufacturing Co., Ltd.: *See*—
Misawa, Rintaro, 4,681,330, Cl. 280-47.200.
Misawa, Rintaro; and Takahashi, Kou, 4,688,813, Cl. 280-5.220.
Zell Engineering Company Limited: *See*—
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Zes, Elias U.: *See*—
Kari, Esko T.; Aaltonen, Jarmo; and Suokas, Elias U., 4,687,571, Cl. 209-167.000.
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Z Brush Co., Inc.: *See*—
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Z Sack Manufacturing Corporation: *See*—
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Z Tool and Mfg. Corporation: *See*—
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Zyba S.A.: *See*—
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Zycon, Inc.: *See*—
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Zyor Electric Company, The: *See*—
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Zyndin, Robert S., 4,636,662, Cl. 307-512.000.
Zyndin, Robert S.; and Petritis, Demetris, 4,642,494, Cl. 310-49.00R.
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Zyor Healthcare Group, Inc.: *See*—
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Zyor Industries International, Inc.: *See*—
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Zyx, Armin; and Nebe, Rainer, to Krupp Polysius AG, Disperser for agitation system, 4,692,244, 9-8-87, Cl. 210-219.000.
Zyxger, Albert V.; and Tinley, Charles W., to North American Zyxtips Corporation, Assembly for packaging microcircuits having plated grounding and insulating leads, and method, 4,706,382, 7-87, Cl. 29-879.000.
Zyxit Systems International, Inc.: *See*—
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Goodwin, Vernon L., 4,672,699, Cl. 5-430.000.
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Supran, Michael K.: *See*—
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Sureau, Jean-Claude; and Krystofik, Steven S., to Radant Technologies, Inc. Electromagnetic energy shield, 4,684,954, 8-4-87, Cl. 343-909.000.
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Suri, Alajos: *See*—
Harsanyi, Jozsef; Kiss, Zoltan; Kukonya, Ferenc; Pinter, Janos; Suri, Alajos; and Toth, Andras, 4,657,668, Cl. 209-158.000.
Surne, Serge, to Compagnie Industrielle des Telecommunications Cit-Alcatel, Frame synchronization device, 4,675,886, 6-23-87, Cl. 375-116.000.
Suringh, Jan F.: *See*—
van Leijenhorst, Harro M.; and Suringh, Jan F., 4,691,586, Cl. 74-479.000.
Suris, Vladimir, to Harvey Hubbell Incorporated, Trolley wire hanger, 4,658,100, 4-14-87, Cl. 191-41.000.
Suris, Vladimir: *See*—
Griffiths, Thomas W.; and Suris, Vladimir, 4,614,817, Cl. 191-67.000.
Surkamp, Paul, to Johann Kaiser GmbH & Co. KG, Rotary dobby, 4,699,187, 10-13-87, Cl. 139-76.000.
Surkamp, Paul: *See*—
Brock, Josef; and Surkamp, Paul, 4,643,231, Cl. 139-66.00R.
Brock, Josef; and Surkamp, Paul, 4,646,788, Cl. 139-76.000.
Surko, Walter E., Jr., to Yale Security Inc. Lock cylinder having two sets of tumblers and key therefor, 4,638,651, 1-27-87, Cl. 70-364.00A.
Surko, Walter E., Jr.: *See*—
Frolov, Georgy; and Surko, Walter E., Jr., 4,665,583, Cl. 16-52.000.
Surletta, Zygmunt M., to Lear Siegler, Inc. Furniture spring assembly having frame support, 4,657,231, 4-14-87, Cl. 267-107.000.
Suroff, Leonard W.: *See*—
Kolt, Stanley, 4,697,736, Cl. 236-49.000.
Surowiecki, Mark W., to Raymond Engineering Inc. Ratchet mechanism for hydraulic wrench, 4,674,368, 6-23-87, Cl. 81-57.390.

Surpuriya, Vijay: *See*—
Wildman, Gary C.; Wirth, Frank; and Surpuriya, Vijay, 4,642,912, Cl. 36-44.000.
Surrency, H. Skeet: *See*—
Johnson, Dennis M.; and Surrency, H. Skeet, 4,711,043, Cl. 36-139.000.
Surtevall Trading AB: *See*—
Myhrman, Soren, 4,646,398, Cl. 24-522.000.
Surti, Tyrone N: Ribbon cartridge. 4,685,817, 8-11-87, Cl. 400-208.000.
Survival Technology, Inc.: *See*—
Dalling, N. Lawrence; and Gordon, Linda A., 4,640,686, Cl. 434-262.000.
Homan, Gerlof, 4,645,073, Cl. 206-219.000.
Mesa, Clarence M., 4,678,461, Cl. 604-157.000.
Sarnoff, Stanley J., 4,656,034, Cl. 424-94.000.
Sarnoff, Stanley J., 4,658,830, Cl. 128-696.000.
Sarnoff, Stanley J., 4,661,469, Cl. 514-2.000.
Sarnoff, Stanley J.; Tarello, William R.; Lopez, Claudio; and Karcher, Daniel W., 4,689,042, Cl. 604-89.000.
Tarello, William R.; Gordon, Linda A.; and Whalen, T. Daniel, 4,713,061, Cl. 604-200.000.
Susa, Ermanno: *See*—
Mayr, Adolfo; Susa, Ermanno; Leccese, Antonio; Davoli, Velmore; and Giachetti, Ettore, 4,636,486, Cl. 502-121.000.
Susak, David M.; and Vyne, Robert L., to Motorola Inc: Operational amplifier utilizing JFET followers. 4,713,626, 12-15-87, Cl. 330-253.000.
Susak, David M.: *See*—
Vyne, Robert L.; and Susak, David M., 4,716,356, Cl. 323-312.000.
Susaki, Kiyoshi: *See*—
Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.
Suschitzky, John L.: *See*—
Dicker, Ian D.; and Suschitzky, John L., 4,698,345, Cl. 514-291.000.
Gould, Kenneth J.; and Suschitzky, John L., 4,670,452, Cl. 514-382.000.
Sushardt, Rolf: *See*—
Rademacher, Friedrich; Sindermann, Siegmar; and Sushardt, Rolf, 4,635,690, Cl. 141-39.000.
Rademacher, Friedrich; Sindermann, Siegmar; and Sushardt, Rolf, 4,679,603, Cl. 141-39.000.
Suska, Charles R: Hinge incorporating leaf pads and tabs of uniform thickness. 4,686,743, 8-18-87, Cl. 16-389.000.
Susko, Edward W.: *See*—
McCartney, Charles P.; Susko, Edward W.; and Crouse, Joseph T., 4,672,625, Cl. 429-187.000.
Susko, John R.: *See*—
Burns, Francis C.; Dreyfus, Russell W.; and Susko, John R., 4,687,539, Cl. 156-626.000.
Clark, Roger J.; Economy, James; Flandera, Mary A.; Susko, John R.; and Wheater, Robin A., 4,690,962, Cl. 524-94.000.
Susko, Robin A.: *See*—
Egitto, Frank D.; Emmi, Francis; Mlynko, Walter E.; and Susko, Robin A., 4,654,115, Cl. 156-643.000.
Jones, Carol R.; and Susko, Robin A., 4,715,941, Cl. 204-192.360.
Suss, Claus: *See*—
Gotsch, Dieter; Klenk, Robert; Hafner, Otto; and Suss, Claus, 4,635,732, Cl. 173-162.00R.
Susse, Karl-Ernst; and Weidner, Frank: Method and arrangement for producing ultrashort light pulses. 4,696,009, 9-22-87, Cl. 372-25.000.
Sussman, Arthur: *See*—
Roth, Philip M.; Itskovitch, Nathan M.; and Sussman, Arthur, 4,713,894, Cl. 34-30.000.
Sussman, Howard: Containers for cosmetic sundries. 4,690,276, 9-1-87, Cl. 206-36.00X.
Sussman, Howard: Container for a plastic trash bag or the like. 4,691,841, 9-8-87, Cl. 220-404.000.
Sustare, Beverly D.: *See*—
Bromley, Eric; and Sustare, Beverly D., 4,672,541, Cl. 364-410.000.
Sustmann, Scarlet; and Marini, Ingo G., to Henkel Kommanditgesellschaft auf Aktien: pH-regulating Cellulose products. 4,634,438, 1-6-87, Cl. 604-376.000.
Sustmann, Scarlet; and Marini, Ingo G., to Lenzing Aktiengesellschaft: pH-regulating Cellulose fiber. 4,634,439, 1-6-87, Cl. 604-376.000.
Sustmann, Scarlet, to Vereinigte Papierwerke, Schickedanz & Co: Tampon for feminine hygiene and a process for its production. 4,642,108, 2-10-87, Cl. 604-379.000.
Sustmann, Scarlet, to Vereinigte Papierwerke, Schickedanz & Co: Layered catamenial device. 4,661,101, 4-28-87, Cl. 604-360.000.
Sustmann, Scarlet; and Marini, Ingo G., to Henkel Kommanditgesellschaft auf Aktien: Microbistatic and deodorizing catamenial and hygienic devices. 4,675,014, 6-23-87, Cl. 604-375.000.
Sustmann, Scarlet, to Vereinigte Papierwerke, Schickedanz & Co: Fluff free tampon and method for making. 4,699,618, 10-13-87, Cl. 604-365.000.
Sustmann, Scarlet: *See*—
Marini, Ingo G.; and Sustmann, Scarlet, 4,637,820, Cl. 8-129.000.
Susukida, Hiroshi: *See*—
Minami, Takao; Nagano, Hiroo; Yamanaka, Kazuo; Okada, Yasutaka; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; and Sasaguri, Nobuya, 4,715,909, Cl. 148-410.000.
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yaautaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.
Susumu Industrial Co., Ltd.: *See*—
Ozawa, Junchiro, 4,641,113, Cl. 333-161.000.
Ozawa, Junchiro, 4,684,916, Cl. 338-308.000.
Susumu, Kubo; Tsutomu, Ikeda; Yoichi, Takanami; and Yoichi Mikami, to Japan Tobacco Inc: Novel protein and plant-virus disease preventive agents. 4,701,522, 10-20-87, Cl. 530-370.000.
Susumu, Matsui: *See*—
Noda, Satoko; and Susumu, Matsui, 4,695,306, Cl. 435-192.000.
Susatoglu, Murat A. Y.: *See*—
Cusick, Gordon E.; and Susatoglu, Murat A. Y., 4,662,169, Cl. 57-401.000.
Sutcliffe, David T.; and Barraclough, David J., to Rolls-Royce plc: Composite material manufacture by shaping individual sheets followed by consolidating the sheets. 4,683,018, 7-28-87, Cl. 156-196.000.
Sutehall, Ralph; and Clarke, Robert S. F., to STC plc: Optical fiber cable. 4,715,676, 12-29-87, Cl. 350/96.23.
Suter, Frank L.; and Showalter, Donald R: Mobile roll-forming machine. 4,660,399, 4-28-87, Cl. 72-181.000.
Suter, Hans R., to Reag (AG): Method of dyeing an optical article. 4,710,199, 12-1-87, Cl. 8-507.000.
Sutera, Richard; Dressler, John L.; and Halliday, Bruce W., to Burlington Industries, Inc: Apparatus to damp turbulence in an ink jet fluid supply chamber. 4,638,327, 1-20-87, Cl. 346-75.000.
Sutera, Richard, to Burlington Industries, Inc: Fenestrated electrode for charging and/or deflecting fluid droplets in fluid-jet marking apparatus. 4,639,737, 1-27-87, Cl. 346-75.000.
Sutera, Richard; and Burchett, Roger, to Burlington Industries, Inc: Woven-fabric electrode for ink jet printer. 4,651,163, 3-17-87, Cl. 346-75.000.
Sutera, Richard; Dressler, John L.; and Archer, Timothy H., to Burlington Industries, Inc: Ink jet system catcher structure. 4,667,207, 5-19-87, Cl. 346-75.000.
Suters, Everett T: Double face changeable sign. 4,654,990, 4-7-87, Cl. 40-491.000.
Sutherland, Donald: Portable playground carrousel. 4,671,506, 6-9-87, Cl. 272-33.00R.
Sutherland, Donald J: Fuel vaporization and pressurization system for an internal combustion engine. 4,702,217, 10-27-87, Cl. 123-523.000.
Sutherland, Hugh F., II; and Luz, David W., to RCA Corporation: Diode modulator with raster width regulation. 4,645,984, 2-24-87, Cl. 315-371.000.
Sutherland, Hugh F., II; and Osborne, Gary T., to RCA Corporation: Auxiliary kinescope beam current limiter with plural cascaded low pass filter and peak detector stages. 4,689,668, 8-25-87, Cl. 358-74.000.
Sutherland, Hugh F., II, to RCA Corporation: Vertical deflection circuit. 4,700,114, 10-13-87, Cl. 315-389.000.
Sutherland, Hugh F., II: *See*—
Haferl, Peter E.; Sutherland, Hugh F., II; Luz, David W.; McDonald, James A.; Waybright, George C.; and Willis, Donald H., 4,682,085, Cl. 315-371.000.
Sutherland, Ian W., to National Research Development Corporation: Gel-forming polysaccharides. 4,638,059, 1-20-87, Cl. 536-121.000.
Sutherland, Ivan E: Asynchronous queue system. 4,679,213, 7-7-87, Cl. 377-66.000.
Sutherland, James A., to Torcad Limited: Process for improving corrosion resistance of zinc or cadmium plated metal articles. 4,657,598, 4-14-87, Cl. 148-6.200.
Sutherland, James F.; and Ghrist, William D., III, to Westinghouse Electric Corp: Fault-tolerant analog output network. 4,652,417, 3-24-87, Cl. 376-215.000.
Sutherland, James F., to Westinghouse Electric Corp: Redundant resistance temperature detector power supply system. 4,672,226, 6-9-87, Cl. 307-43.000.
Sutherland, James F.; and Miller, William L., to Westinghouse Electric Corp: Testable, fault-tolerant power interface circuit for controlling plant process equipment. 4,697,093, 9-29-87, Cl. 307-38.000.
Sutherland, James F.; Crew, Albert W.; and Emmy, Thomas J., to Westinghouse Electric Corp: Analog signal processor. 4,700,174, 10-13-87, Cl. 340-347.0CC.
Sutherland, James F.: *See*—
Hasenkopf, Joel E.; and Sutherland, James F., 4,694,415, Cl. 364-724.000.
Kenny, Thomas J.; and Sutherland, James F., 4,644,440, Cl. 361-111.000.
Kenny, Thomas J.; and Sutherland, James F., 4,691,263, Cl. 361-58.000.
Sutherland, Karl M., to American Hospital Supply Corp: Blood heat exchanger. 4,684,508, 8-4-87, Cl. 422-46.000.
Sutherland, Ranald M.: *See*—
Ringrose, Anthony; Sutherland, Ranald M.; Dahne, Claus; and Place, John F., 4,668,636, Cl. 436-164.000.
Sutherland, Ray, to Rockwell International Corporation: Tamperproof water meter. 4,663,970, 5-12-87, Cl. 73-273.000.
Sutherland, Robert L.; and Brown, William M., to Federal Paper Board Co., Inc: Lock arrangement. 4,708,284, 11-24-87, Cl. 229-48.00R.
Suthers, Mark S.; Este, Grantley O.; Streater, Richard W.; and Mac Laurin, Blair K., to Northern Telecom Limited: Saw devices with reflection-suppressing fingers. 4,642,507, 2-10-87, Cl. 310-313.00B.

Suthers, Mark S.: *See*—
Este, Grantley O.; Suthers, Mark S.; Streater, Richard W.; and MacLaurin, Blair K., 4,684,841, Cl. 310-313.00B.

Sutin, Gordon L.: *See*—
Galgana, Russell J.; Sutin, Gordon L.; McNerney, Michael; and Mahoney, Patrick F., 4,669,397, Cl. 110-259.000.
Galgana, Russell J.; Mahoney, Patrick F.; and Sutin, Gordon L., 4,715,763, Cl. 414-216.000.

Sutka, Klara: *See*—
Sutka, Pal; and Sutka, Klara, 4,678,748, Cl. 435-68.000.

Sutka, Pal; and Sutka, Klara. Process for the production of immunobiological preparations applicable in the diagnosis, prevention and/or treatment of *Candida guilliermondii* infections. 4,678,748, 7-7-87, Cl. 435-68.000.

Suto, Imre: *See*—
Antal nee Magyar, Zsuzsanna; Beller, Eva; doross, Laszlo; Daroczi, Ivan; Kalman, Miklos; Suto, Imre; and Szajani, Bela, 4,670,390, Cl. 435-180.000.

Suto, Mareo: *See*—
Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakami, Kanji; Okada, Hisao; Sasaki, Suji; Inose, Shigeru; Suto, Mareo; and Uzuhashi, Hideo, 4,665,282, Cl. 178-18.000.

Suto, Mark J.: *See*—
Berman, Ellen M.; and Suto, Mark J., 4,677,219, Cl. 558-419.000.

Sutoh, Akiatko: *See*—
Fujio, Akihiko; Iwaki, Hiroshi; Tsuboi, Kunio; and Sutoh, Akihiko, 4,711,551, Cl. 355-3.0DD.

Sutoh, Junichi: *See*—
Fujiwara, Shinobu; Satoh, Atsushi; Hattori, Tetsuya; and Sutoh, Junichi, 4,692,422, Cl. 501-136.000.

Sutor, Judy L.: *See*—
Wrathall, Robert S.; and Sutor, Judy L., 4,701,718, Cl. 330-253.000.

Sutou, Masatune: *See*—
Sugiyama, Masahiko; Sutou, Masatune; Murata, Mitsuru; Ooki, Minoru; and Tagawa, Shigetaro, 4,636,154, Cl. 418-97.000.

Sutphin, Eldon M., Jr., to RCA Corporation. Vehicle identification system using radar and acoustic information. 4,635,058, 1-6-87, Cl. 342-52.000.

Sutphin, Howard D.: *See*—
MacKinnon, Barry A.; and Sutphin, Howard D., 4,667,174, Cl. 335-299.000.

Sutphin, Melvin W.; and Taylor, Theodore E., to General Electric Company. Data muting method and apparatus for audo-digital communications systems. 4,663,765, 5-5-87, Cl. 375-5.000.

Sutphin, Richard C.; Bell, Steven R.; and Monsell, Kurt, to Acme Electric Corporation. Microprocessor controlled battery charger. 4,710,694, 12-1-87, Cl. 320-21.000.

Sutrina, Thomas A., to Sundstrand Corporation. Non-condensible ejection system for closed cycle Rankine apparatus. 4,658,589, 4-21-87, Cl. 60-646.000.

Sutter, Charles W.: *See*—
Parent, Edward D.; Purinton, Charles S.; and Sutter, Charles W., 4,663,120, Cl. 419-10.000.

Sutter, Erich E., to Medical Research Institute. Communication system for the disabled in which a display target is selected by encephalogram response. 4,651,145, 3-17-87, Cl. 340-706.000.

Sutter, Herbert G.: *See*—
Macedo, Pedro B.; Barkatt, Aaron; and Sutter, Herbert G., 4,687,581, Cl. 210-670.000.

Sutter, James J. Toy slot machine. 4,666,159, 5-19-87, Cl. 273-143.00R.

Sutter, Jean: *See*—
Souplet, Robert; and Sutter, Jean, 4,638,976, Cl. 251-173.000.

Sutter, Leroy V., Jr.: *See*—
Philipphar, Jay E.; Smith, Chadwick F.; and Sutter, Leroy V., Jr., 4,715,372, Cl. 128-303.100.
Stone, Joseph J.; and Sutter, Leroy V., Jr., 4,652,722, Cl. 219-121.01.S.

Sutterlin, Norbert; Bintz, Hans-Dieter; Mager, Theodor; Jagsch, Karl-Heinz; and Tessiaer, Dieter, to Rohm GmbH Chemische Fabrik. Continuous emulsion polymerization process. 4,713,434, 12-15-87, Cl. 526-62.000.

Sutterlin, Philip H.: *See*—
Dumas, Gregory P.; and Sutterlin, Philip H., 4,642,805, Cl. 370-58.000.

Suttles, Cameron; and Madsen, Karen C. Photograph carrying postcard. 4,662,093, 5-5-87, Cl. 40-158.00R.

Suttles, J. Marshall, to Royston Corporation. Cup dispenser. 4,658,983, 4-21-87, Cl. 221-44.000.

Suttles, J. Marshall, to Royston Corporation. Sheet metal door for cabinets and the like. 4,662,114, 5-5-87, Cl. 49-501.000.

Sutto, Melody L.: *See*—
McGregor, Charles W.; and Sutto, Melody L., 4,693,936, Cl. 428-383.000.

Sutton, Bernard. Versatile fitness kit. 4,691,915, 9-8-87, Cl. 272-68.000.

Sutton, David L.: *See*—
Childs, Jerry D.; Sutton, David L.; and Sabins, Freddie L., 4,676,832, Cl. 106-90.000.
Sabins, Fred L.; Sutton, David L.; and Johnson, Johnny W., 4,653,313, Cl. 73-61.400.

Sutton, David W., to Hero Automation. In-line shearing device. 4,648,298, 3-10-87, Cl. 83-62.000.

Sutton, Donald C., to United States of America, Navy. Pneumatic cable stripper. 4,704,925, 11-10-87, Cl. 81-9.400.

Sutton Engineering Company: *See*—
Harrold, Donald T.; and Dziki, Jeffrey P., 4,651,602, Cl. 83-15.000.

Sutton, Gary, to General Signal Corporation; and Dempster Systems Inc. Hydraulic control system and valve therefor. 4,642,019, 2-10-87, Cl. 414-525.00R.

Sutton, Gary, to General Signal Corporation; and Dempster Systems, Inc. Hydraulic control valve. 4,694,858, 9-22-87, Cl. 137-596.000.

Sutton, Gordon W.: *See*—
Brazier, John F.; Young, Alan H.; Viney, John E.; and Sutton, Gordon W., 4,708,638, Cl. 431-116.000.

Sutton, Harry G., Jr., to United States of America, Energy. Weld monitor and failure detector for nuclear reactor system. 4,675,146, 6-23-87, Cl. 376-250.000.

Sutton, Jerome L., to Valley Craft, Inc. Method for positioning fallen pallet loads. 4,669,949, 6-2-87, Cl. 414-786.000.

Sutton, Jimmy; Shearer, Wanda; Arkin, Karlie J.; Spoelstra, Jeffrey A.; Weiss, Steven M.; Ramsey, Sherry L.; Hurlbut, Kyle; Culbertson, W. Bruce; and Burns, Robert R., to Hewlett-Packard Company. Touch-screen two-dimensional emulation of three-dimensional objects. 4,649,499, 3-10-87, Cl. 364-518.000.

Sutton, John, to Central Electricity Generating Board. Apparatus for and method of monitoring the corrosion in electrical power cables by measuring the variation in induced eddy currents. 4,652,823, 3-24-87, Cl. 324-240.000.

Sutton, John H., III, to Beckman Instruments, Inc. Centrifuge rotor with an offset pivotal mount for a sample container. 4,659,324, 4-21-87, Cl. 494-20.000.

Sutton, Kerry L.: *See*—
Arnold, Allen J.; Courtney, Mark G.; Kirby, Diane N.; Mrs. Katherine H.; and Sutton, Kerry L., 4,715,430, Cl. 165-80.300.

Sutton, Leroy, to Zenith Electronics Corporation. Standby system for video display. 4,641,191, 2-3-87, Cl. 358-168.000.

Sutton, Leroy A.: *See*—
Gawell, George R.; Steinmetz, Richard J.; and Sutton, Leroy A., 4,645,988, Cl. 315-401.000.

Sutton, Paul M.; and Peplinski, Joseph, to Dorr-Oliver Inc. Method and apparatus for concentrating bioparticles. 4,681,685, 7-21-87, Cl. 210-618.000.

Sutton, Quinten H., to RTE Corporation. Sliding current interchange. 4,713,018, 12-15-87, Cl. 439-185.000.

Sutton, Robert F.; and Kirkham, Kathleen E., to Rockwell International Corporation. Preventing stress corrosion cracking of bearings. 4,687,556, 8-18-87, Cl. 204-29.000.

Sutton, Ronald D.: *See*—
De Vito, Joseph; Lyttle, Kevin A.; Sutton, Ronald D.; Westendorf, Alan J.; Larson, Nils E.; and Uttrachi, Gerald D., 4,645,903, Cl. 219-137.00R.

Sutton, Stephen J., to General Motors Corporation. Apparatus for detecting water in fuel. 4,638,305, 1-20-87, Cl. 340-620.000.

Sutton, Steven R.; and Hoeren, Gerd H., to Tektronix, Inc. Graphical input of timing relationships. 4,677,620, 6-30-87, Cl. 371-27.000.

Sutton, Walter T.; Craft, Randy; and Kummer, Stanley F., to Texas Instruments Incorporated. Control circuit particularly adapted for use with lubrication sensor apparatus. 4,672,231, 6-9-87, Cl. 307-118.000.

Sutton, Wesley D., Jr.: *See*—
Shannon, William H.; and Sutton, Wesley D., Jr., 4,706,952, Cl. 272-85.000.

Suval, William D.: *See*—
Spillert, Charles R.; Suval, William D.; and Lazaro, Eric J., 4,705,755, Cl. 436-64.000.

Suvanto, Antti: *See*—
Fejes, Peter; and Suvanto, Antti, 4,661,220, Cl. 204-141.500.

Suwa, Kaname, to Canon Kabushiki Kaisha. Keyboard of an electronic apparatus. 4,638,151, 1-20-87, Cl. 235-145.00R.

Suwa, Kaname, to Canon Kabushiki Kaisha. Thin electronic apparatus. 4,672,787, 6-23-87, Cl. 361-401.000.

Suwa, Kaname, to Canon Kabushiki Kaisha. Electronic equipment having a key input function. 4,681,987, 7-21-87, Cl. 200-5.00A.

Suwa, Katsuhiko: *See*—
Katayama, Akifumi; Mori, Keijirou; Ueda, Satoshi; and Suwa, Katsuhiko, 4,672,561, Cl. 364-556.000.

Suwa, Kyoichi, to Nippon Kogaku K. K. Focusing apparatus for projection optical system. 4,650,983, 3-17-87, Cl. 250-204.000.

Suwa, Kyoichi, to Nippon Kogaku K. K. Photomask and exposure apparatus using the same. 4,657,379, 4-14-87, Cl. 355-53.000.

Suwa, Kyoichi; Kawai, Hidemi; and Murakami, Masaichi, to Nippon Kogaku K. K. Method of aligning a semiconductor substrate and a photomask. 4,679,942, 7-14-87, Cl. 356-401.000.

Suwa, Kyoichi: *See*—
Murakami, Masaichi; Kawai, Hidemi; and Suwa, Kyoichi, 4,704,020, Cl. 353-122.000.
Shimizu, Hisayuki; Anzai, Satoru; Tanaka, Hiroshi; and Suwa, Kyoichi, 4,666,273, Cl. 353-101.000.
Tanimoto, Akikazu; Matsuura, Toshio; Murakami, Seiro; Uehara, Makoto; and Suwa, Kyoichi, 4,677,301, Cl. 250-548.000.
Tanimoto, Akikazu; Matsuura, Toshio; and Suwa, Kyoichi, 4,699,515, Cl. 356-40.000.

Suwa, Masateru: *See*—
Nihei, Masayasu; Suwa, Masateru; and Chigasaki, Mitsuri, 4,692,230, Cl. 204-192.310.

Suwa, Teruko. Fur-skin strip material and method for producing the same. 4,637,206, 1-20-87, Cl. 57-31.000.

Suwa, Yoshio: *See*—
Watanabe, Tokisuke; Kitaoka, Shinji; and Suwa, Yoshio, 4,658,042, Cl. 549-257.000.

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Suwabe, Yasushi: *See*—
Wakabayashi, Toshio; Kumonaka, Takahiro; and Suwabe, Yasushi, 4,656,172, Cl. 514-252.000.
Suwahara, Hiroshi: *See*—
Kamo, Kazuhiko; Suwahara, Hiroshi; and Nakane, Ryuji, 4,636,610, Cl. 219-124.020.
Suyama, Hideo; Imakoshi, Shigeyoshi; Soda, Yutaka; Fuse, Takeyuki; Abe, Iwao; and Wakabayashi, Noboru, to Sony Corporation. Multi channel magnetic transducer head. 4,673,999, 6-16-87, Cl. 360-125.000.
Suyama, Hideo: *See*—
Imakoshi, Shigeyoshi; Soda, Yutaka; Suyama, Hideo; and Iida, Yasuhiro, 4,679,107, Cl. 360-113.000.
Imakoshi, Shigeyoshi; Fukuyama, Munekatsu; Suyama, Hideo; and Souda, Yutaka, 4,691,259, Cl. 360-113.000.
Imakoshi, Shigeyoshi; Soda, Yutaka; and Suyama, Hideo, 4,695,908, Cl. 360-119.000.
Imakoshi, Shigeyoshi; Suyama, Hideo; Soda, Yutaka; Fukuyama, Munekatsu; and Iida, Yasuhiro, 4,703,378, Cl. 360-113.000.
Souda, Yutaka; Imakoshi, Shigeyoshi; Suyama, Hideo; Uchida, Hiroyuki; Iida, Yasuhiro; and Sekiya, Tetsuo, 4,673,998, Cl. 360-113.000.
Yada, Hiroaki; Imakoshi, Shigeyoshi; Suyama, Hideo; Sekiya, Tetsuo; and Nakayama, Masayuki, 4,701,815, Cl. 360-77.000.
Suyama, Hitoshi: *See*—
Akabane, Jun; and Suyama, Hitoshi, 4,707,101, Cl. 354-289.100.
Suyama, Katsuhiko, to Fujitsu Limited. Logic circuit. 4,656,611, 4-7-87, Cl. 365-203.000.
Suyama, Tadakazu: *See*—
Fukushima, Tsunekazu; Emoto, Hiroshi; Kagitani, Yoshio; Yokoyama, Kazumasa; Nishida, Masayuki; and Suyama, Tadakazu, 4,687,762, Cl. 514-34.000.
Uemura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sumi, Akinori; Ohtani, Wataru; Sakanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu, 4,694,074, Cl. 530-417.000.
Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; Inoue, Yoshihisa; Naito, Youichiro; and Suyama, Tadakazu, 4,654,337, Cl. 514-214.000.
Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; and Suyama, Tadakazu, 4,713,459, Cl. 546-150.000.
Suyama, Takahiro: *See*—
Hayakawa, Toshiro; Miyauchi, Nobuyuki; Yano, Seiki; and Suyama, Takahiro, 4,637,029, Cl. 372-45.000.
Hayakawa, Toshiro; Suyama, Takahiro; and Yamamoto, Saburo, 4,691,214, Cl. 357-17.000.
Hayakawa, Toshiro; Suyama, Takahiro; Takahashi, Kohsei; and Yamamoto, Saburo, 4,693,207, Cl. 118-715.000.
Hayakawa, Toshiro; Suyama, Takahiro; and Yamamoto, Saburo, 4,694,460, Cl. 372-45.000.
Suyama, Tomio: *See*—
Sakai, Tadashi; and Suyama, Tomio, 4,669,276, Cl. 62-347.000.
Suyama, Yasuyuki: *See*—
Ohmura, Kazumi; Suyama, Yasuyuki; and Nagasawa, Hiroaki, 4,664,575, Cl. 414-32.000.
Suye, Shinichiro: *See*—
Yokoyama, Sadaji; and Suye, Shinichiro, 4,661,448, Cl. 435-90.000.
Suyefuji, Mineo: *See*—
Shiraishi, Hisashi; Suyefuji, Mineo; and Kato, Masashi, 4,699,680, Cl. 156-242.000.
Suykerbuyk, Lucovicus F. M.: *See*—
Beer, Henri B.; Van Den Keybus, Franz A. M.; and Suykerbuyk, Lucovicus F. M., 4,670,114, Cl. 204-96.000.
Suzaki, Eiji: *See*—
Kajima, Yutaka; and Suzaki, Eiji, 4,653,185, Cl. 29-809.000.
Suzaki, Masafumi; Mikami, Katsumasa; Nagano, Yousuke; and Kitagishi, Tomoji, to Hitachi, Ltd. Thermal transfer printer. 4,641,149, 2-3-87, Cl. 346-76.0PH.
Suzaki, Masafumi: *See*—
Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryoichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.
Suzaki, Masayuki; Nishiwaki, Shoji; Hayashima, Toshitaka; Uezu, Kazuo; Maehara, Hidejirou; and Momose, Masanori, to Ricoh Company, Ltd. Printer with detachably mountable ink ribbon cassette. 4,683,478, 7-28-87, Cl. 346-76.0PH.
Suzaki, Shunkichi; Shirai, Toshiaki; Adachi, Hisanobu; Hayashi, Masaharu; Hattori, Kenji; and Takakura, Yoshinari, to Toyota Jidosha Kabushiki Kaisha, and Aisin Seiki Kabushiki Kaisha. Engine cooling fan coupling system controlled in concert with a cooling system thermostat. 4,687,132, 8-18-87, Cl. 236-35.000.
Suzaki, Takuji; and Yamamoto, Koji, to Omron Tateisi Electronics Co. Image pick-up device. 4,652,916, 3-24-87, Cl. 348-93.000.
Suzansky, Vasily G.: *See*—
Lyakhevich, Genrikh D.; Khimanych, Anatoly P.; Suzansky, Vasily G.; and Kovalerchik, Vulf P., 4,686,007, Cl. 201-3.000.
Suzawa, Osamu, to Seiko Epson Corporation. Backlighted liquid crystal display. 4,659,183, 4-21-87, Cl. 350-345.000.
Suzda, Gregory R.: *See*—
Wendt, David W.; Bullis, Daniel R., Jr.; Kemp, Alan F.; and Suzda, Gregory R., 4,662,664, Cl. 292-19.000.
Wendt, David W.; Bullis, Daniel R., Jr.; Kemp, Alan F.; and Suzda, Gregory R., 4,664,304, Cl. 226-127.000.
Suziku, Koichi: *See*—
Ito, Masahiro; Murayama, Noboru; Suziku, Koichi; Sato, Ken; Sato, Tsutomu, 4,698,778, Cl. 364-518.000.
Suzue, Masayoshi: *See*—
Morimoto, Takuo; Nishiuchi, Kihachiro; Wada, Kenichi; Su Masayoshi; and Hareyama, Yukiya, 4,655,967, Cl. 252-520.0
Nishiuchi, Kihachiro; Suzue, Masayoshi; and Sakane, 4,652,439, Cl. 423-598.000.
Nishiuchi, Kihachiro; Suzue, Masayoshi; and Sakane, 4,689,211, Cl. 423-598.000.
Suzue, Seigo: *See*—
Irikura, Tsutomu; Suzue, Seigo; Uchida, Hiroaki; Shin Hirotaka; Murayama, Satoshi; and Kinoshita, Susumu, 4,649, Cl. 544-281.000.
Suzue, Shigetoshi: *See*—
Kanai, Hiroyuki; Imamura, Tetsuya; Takeuchi, Takeshi; and Su Shigetoshi, 4,675,250, Cl. 428-403.000.
Suzuka, Masakazu: *See*—
Murata, Yukio; and Suzuka, Masakazu, 4,635,213, Cl. 364-526
Suzuka, Susumu: *See*—
Kaneko, Kazuo; Suzuka, Susumu; Gonda, Michihiro; Kanasugi, Mikiko, 4,694,088, Cl. 549-326.000.
Sensui, Hideyuki; Suzuka, Susumu; Gonda, Michihiro; and S kawa, Katsumasa, 4,642,663, Cl. 346-221.000.
Suzuki, Nobuo; Okamura, Kikuko; Sugiyama, Genpei; and Suz Susumu, 4,683,188, Cl. 430-110.000.
Suzuka, Teruo: *See*—
Sato, Yasukazu; Matsuda, Kenichi; Ozaki, Hiromi; Suzuka, Ter and Yamane, Mamoru, 4,643,813, Cl. 204-157.780.
Suzukamo, Gohfu; and Fukao, Masami, to Sumitomo Chemical Co pany, Limited. Method for racemization of chrysanthemic acid or ester. 4,644,080, 2-17-87, Cl. 560-124.000.
Suzukamo, Gohfu; and Fukao, Masami, to Sumitomo Chemical Co pany, Ltd. Method for racemization of chrysanthemic acid or ester. 4,659,864, 4-21-87, Cl. 560-124.000.
Suzukamo, Gohfu; Fukao, Masami; Minobe, Masao; and Sakam Akemi, to Sumitomo Chemical Company, Limited. Process preparing solid base catalyst. 4,711,873, 12-8-87, Cl. 502-344.000.
Suzuki, Akihisa, to Sharp Kabushiki Kaisha. Loudspeaker diaphrag 4,635,750, 1-13-87, Cl. 381-194.000.
Suzuki, Akimitsu; Awaji, Toshio; and Igari, Kozaburo, to NSK-Warn K. K. Speed responsive centrifugal clutch with a serial circumfer tial arrangement of shoe assemblies and dampers. 4,690,257, 9-1 Cl. 192-3.310.
Suzuki, Akimori: *See*—
Takematsu, Tetsuo; Suzuki, Akimori; Toda, Kazuya; and Go Masuo, 4,685,962, Cl. 71-118.000.
Suzuki, Akio; Koitabashi, Takeo; Iwata, Masatoshi; Yamaguchi, Ha shi; and Matsuzaka, Syoji, to Konishiroku Photo Industry Co., L Silver halide light-sensitive photographic material for radiograp use. 4,680,252, 7-14-87, Cl. 430-364.000.
Suzuki, Akio: *See*—
Honda, Chiba; Ueda, Koichi; and Suzuki, Akio, 4,686,175, 430-569.000.
Honda, Chika; Suzuki, Akio; Machida, Katsuiosbi; and Iwa Masatoshi, 4,639,417, Cl. 430-567.000.
Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; a Hosaka, Masumi, 4,659,654, Cl. 430-567.000.
Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; Hosa Masumi; and Honda, Chika, 4,689,292, Cl. 430-567.000.
Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akira; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masa Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junji Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.
Suzuki, Akira, to NEC Corporation. Semiconductor light emitt diode with high operating speed. 4,670,689, 6-2-87, Cl. 313-499.00
Suzuki, Akira, to Canon Kabushiki Kaisha. Image forming apparat 4,673,281, 6-16-87, Cl. 355-14.00R.
Suzuki, Akira; Suzuki, Hidemasa; and Yamaguchi, Tomio, to Fuji Se Machine Works, Ltd. Lead frame handling apparatus for blan machine. 4,674,238, 6-23-87, Cl. 51-418.000.
Suzuki, Akira, to Fuji Seiki Machine Works, Ltd. Method for prepa tion of silicon wafer. 4,679,359, 7-14-87, Cl. 51-321.000.
Suzuki, Akira; Mizuta, Yukio; Sato, Rejiro; and Shimizu, Kats Kabushiki Kaisha Tokai. Light-shielding screen device. 4,688,1 8-18-87, Cl. 362-354.000.
Suzuki, Akira; Tanaka, Hideki; and Murakami, Gen, to Hitachi, L Semiconductor device and method of manufacturing there 4,707,724, 11-17-87, Cl. 357-71.000.
Suzuki, Akira, to Hitachi, Ltd. Rotary compressor apparatus. 4,708,9 11-24-87, Cl. 417-425.000.
Suzuki, Akira, to Copal Company Limited. Focal plane shutter f cameras. 4,714,336, 12-22-87, Cl. 354-246.000.
Suzuki, Akira, to Toshiba Machine Co., Ltd. Laser picture-draw apparatus. 4,714,933, 12-22-87, Cl. 346-108.000.
Suzuki, Akira: *See*—
Akui, Nobuaki; Ueda, Yasuhiro; and Suzuki, Akira, 4,653,477, 128-4.000.
Akui, Nobuaki; Ueda, Yasuhiro; and Suzuki, Akira, 4,715,360, 128-4.000.
Kantrowitz, Adrian; Freed, Paul S.; Tachi, Hiroyuki; and Suzu Akira, 4,692,148, Cl. 604-96.000.
Sugiyama, Jun; Suzuki, Akira; Terada, Kosei; Oguri, Shigenori; a Ishi, Shigeki, 4,672,876, Cl. 84-1.030.
Suzuki, Akiyoshi; and Ina, Hideki, to Canon Kabushiki Kaisha. Opti apparatus using polarized light. 4,634,240, 1-6-87, Cl. 350-508.000.

Suzuki, Akiyoshi; and Ina, Hideki, to Canon Kabushiki Kaisha. Apparatus and a method for position detection of an object stepped portion. 4,641,035, 2-3-87, Cl. 250-548.000.

Suzuki, Akiyoshi; and Ina, Hideki, to Canon Kabushiki Kaisha. Observation apparatus with selective light diffusion. 4,645,924, 2-24-87, Cl. 250-236.000.

Suzuki, Akiyoshi, to Canon Kabushiki Kaisha. Observation device and an aligner using same. 4,655,601, 4-7-87, Cl. 356/401.000.

Suzuki, Akiyoshi, to Canon Kabushiki Kaisha. Exposure apparatus. 4,688,932, 8-25-87, Cl. 355-51.000.

Suzuki, Akiyoshi: *See*—
Hirose, Ryusho; and Suzuki, Akiyoshi, 4,688,904, Cl. 350-443.000.
Torigoe, Makoto; Kohno, Michio; and Suzuki, Akiyoshi, 4,653,903, Cl. 355-53.000.
Torigoe, Makoto; Suzuki, Akiyoshi; and Sakai, Terumasa, 4,711,568, Cl. 355-68.000.
Totsuka, Masao; and Suzuki, Akiyoshi, 4,659,228, Cl. 356-401.000.

Suzuki, Arata, to Capintec, Inc. High-energy radiation detector and method of detection. 4,649,276, 3-10-87, Cl. 250-361.00R.

Suzuki, Atsushi, to Fujitsu Limited. Constant pulse width generator including transition detectors. 4,710,904, 12-1-87, Cl. 365-226.000.

Suzuki, Atsushi: *See*—
Ina, Katsuhiro; Sato, Yoshihisa; Kinugawa, Masumi; Suzuki, Atsushi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; Yamada, Toshitaka; and Abe, Tomoaki, 4,667,745, Cl. 73-204.000.
Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; Suzuki, Atsushi; and Sugiura, Kengo, 4,680,964, Cl. 73-204.000.
Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; and Suzuki, Atsushi, 4,683,858, Cl. 123-486.000.

Suzuki, Chiaki: *See*—
Shimizu, Shigehisa; Suzuki, Chiaki; Harada, Kazumasa; and Maeda, Tomohisa, 4,656,737, Cl. 29-806.000.

Suzuki, Choichi: *See*—
Otani, Tetsurou; Takumi, Shigeji; and Suzuki, Choichi, 4,664,074, Cl. 123-41.310.

Suzuki, Eiichi, to Canon Kabushiki Kaisha. Ink-jet recording process. 4,695,846, 9-22-87, Cl. 346-1.100.

Suzuki, Eiji; Nozue, Yoshihiro; and Oide, Kenichi, to Fujitsu Limited. Radio receiver with variable phase shift correction. 4,677,631, 6-9-87, Cl. 375-14.000.

Suzuki, Etsuji: *See*—
Nagashima, Sumio; Suzuki, Etsuji; Chiyoda, Kiyomu; and Kodama, Masahiro, 4,644,584, Cl. 382-34.000.

Suzuki, Fujiyuki; and Osada, Akira, to Suzuki Jidosha Kogyo Kabushiki Kaisha. Method of controlling an air-fuel ratio for an internal combustion engine. 4,697,559, 10-6-87, Cl. 123-325.000.

Suzuki, Fumihiko, to Kabushiki Kaisha Kotobuki. Apparatus for turning up and down seats for a telescopic seating system. 4,702,043, 10-27-87, Cl. 52-9.000.

Suzuki, Fumnori: *See*—
Kamiya, Kiyoshi; Shiraishi, Atsushi; and Suzuki, Fumnori, 4,694,348, Cl. 358-236.000.

Suzuki, Harue: *See*—
Hosemura, Sin; Fujio, Junichi; Tanaka, Kozo; Suzuki, Harue; and Baba, Kenichi, 4,643,529, Cl. 350-337.000.

Suzuki, Haruko: *See*—
Oodaira, Hiroshi; Suzuki, Haruko; Saito, Masayuki; and Ohuchi, Masayuki, 4,694,138, Cl. 219-121.01.M.

Suzuki, Haruo: *See*—
Mori, Kohei; and Suzuki, Haruo, 4,658,704, Cl. 91-369.00R.

Suzuki, Hayao; and Matsuoka, Yoshiharu, to Seiko Instruments & Electronics Ltd. Robot controlling system. 4,659,971, 4-21-87, Cl. 318-568.000.

Suzuki, Hayao; and Matsuoka, Yoshiharu, to Seiko Instruments & Electronics Ltd. Robot controlling system. 4,694,232, 9-15-87, Cl. 318-568.000.

Suzuki, Hayato: *See*—
Yamamoto, Hiroshi; Suzuki, Hayato; and Takatsuka, Keizo, 4,687,800, Cl. 200-148.00B.

Suzuki, Hideki: *See*—
Kawaguchi, Toshiyuki; Suzuki, Hideki; and Usuda, Tsuneo, 4,701,279, Cl. 252-511.000.

Suzuki, Hidemasa; Watanabe, Mitsuru; and Ohtake, Matsuo, to Fuji Seiki Machine Works, Ltd. Wet blasting machine with automatic control system for slurry concentration. 4,669,230, 6-2-87, Cl. 51-415.000.

Suzuki, Hidemasa: *See*—
Suzuki, Akira; Suzuki, Hidemasa; and Yamaguchi, Tomio, 4,674,238, Cl. 51-418.000.

Suzuki, Hideo, to Bellmatic, Ltd. Method for smoothing magnetic recording media. 4,645,686, 2-24-87, Cl. 427-48.000.

Suzuki, Hideo, to Nippon Gakki Seizo Kabushiki Kaisha. Musical tone signal generating apparatus employing sampling of harmonic coefficients. 4,646,612, 3-3-87, Cl. 84-1.220.

Suzuki, Hideo, to Musashi Seimitsu Kogyo Kabushiki Kaisha. Process for producing built-up camshafts. 4,660,269, 4-28-87, Cl. 29-523.000.

Suzuki, Hideo; Kokura, Satoshi; Asai, Osamu; and Miyazaki, Kunio, to Hitachi, Ltd. SiC sintered body having metallized layer and production method thereof. 4,663,649, 5-5-87, Cl. 357-67.000.

Suzuki, Hideo, to Nippon Gakki Seizo Kabushiki Kaisha. Waveshape memory for an electronic musical instrument. 4,672,875, 6-16-87, Cl. 84-1.010.

Suzuki, Hideo, to Kabushiki Kaisha Toshiba. Digital signal processor. 4,674,105, 6-16-87, Cl. 375-80.000.

Suzuki, Hideo, to Nippon Gakki Seizo Kabushiki Kaisha. Tone signal generation device for changing the tone color of a stored tone waveshape in an electronic musical instrument. 4,679,480, 7-14-87, Cl. 84-1.220.

Suzuki, Hideo; and Nozue, Kazunobu, to Sanshin Kogyo Kabushiki Kaisha. Tilting device for marine propulsion device. 4,695,260, 9-22-87, Cl. 440-61.000.

Suzuki, Hideo; Okamoto, Kunihide; Hayashi, Yasuyuki; and Aiba, Mitsuru, to Kabushiki Kaisha Showa Seisakusho. Vehicle leveling system. 4,709,934, 12-1-87, Cl. 280-6.00R.

Suzuki, Hideo, to Fujitsu Limited. Josephson-junction logic device. 4,710,651, 12-1-87, Cl. 307-462.000.

Suzuki, Hideo: *See*—
Nakamura, Makoto; Suzuki, Hideo; and Karoki, Toshihiko, 4,686,512, Cl. 340-347.0DD.
Satoh, Susumu; Suzuki, Hideo; Obara, Takashi; Nishida, Minoru; and Hashimoto, Osamu, 4,708,748, Cl. 148-2.000.
Watanabe, Kunuki; and Suzuki, Hideo, 4,682,713, Cl. 222-591.000.
Yamoto, Hisayoshi; and Suzuki, Hideo, 4,702,937, Cl. 437-233.000.

Suzuki, Hidetoshi, to Canon Kabushiki Kaisha. Recording apparatus. 4,675,696, 6-23-87, Cl. 346-46.000.

Suzuki, Hidetoshi: *See*—
Ayata, Naoki; Saito, Seiji; Suzuki, Hidetoshi; Ozawa, Kunitaka; and Koumura, Noboru, 4,707,713, Cl. 346-140.00R.
Kan, Fumitaka; Hayakawa, Naoji; Majima, Toshaki; Takenouchi, Masanori; Yamamoto, Mitsuru; Suzuki, Hidetoshi; and Nomura, Ichiro, 4,675,699, Cl. 346-76.00R.
Kato, Yuzo; and Suzuki, Hidetoshi, 4,686,580, Cl. 358-287.000.
Nanjyo, Hirotoshi; and Suzuki, Hidetoshi, 4,669,436, Cl. 123-357.000.
Nanjyo, Hirotoshi; and Suzuki, Hidetoshi, 4,708,112, Cl. 123-357.000.
Ozawa, Kunitaka; Ayata, Naoki; Suzuki, Hidetoshi; Saito, Seiji; and Koumura, Noboru, 4,694,502, Cl. 382-17.000.

Suzuki, Hidetsugu: *See*—
Suzuki, Kiyoaki; Iwahara, Makoto; Suzuki, Hidetsugu; and Sakamoto, Atsushi, 4,672,434, Cl. 358-88.000.

Suzuki, Hideyuki; Terada, Katsunori; Masaki, Yuichi; and Morimoto, Kenji, to Canon Kabushiki Kaisha. Pattern forming method. 4,690,880, 9-1-87, Cl. 430-313.000.

Suzuki, Hideyuki: *See*—
Itabashi, Satoshi; Kawakami, Soichiro; Terada, Katsunori; Suzuki, Hideyuki; Furushima, Teruhiko; and Fukaya, Misaki, 4,705,598, Cl. 156-643.000.
Oba, Seisuke; Mikami, Tsutomu; Suzuki, Hideyuki; Shimada, Mitsuhiro; and Suzuki, Tadashi, 4,706,141, Cl. 360-96.500.

Suzuki, Hikoshiro, to Topre Corporation. Constant airflow control apparatus for air conditioning. 4,633,900, 1-6-87, Cl. 137-504.000.

Suzuki, Hiroaki; and Kobayashi, Teruo, to Kabushiki Kaisha Toshiba. Semiconductor integrated circuit. 4,651,190, 3-17-87, Cl. 357-45.000.

Suzuki, Hiroaki: *See*—
Matsuo, Kenji; Sasaki, Itsuo; Suzuki, Hiroaki; and Kunieda, Mitsuyuki, 4,716,308, Cl. 307-303.000.

Suzuki, Hirofumi: *See*—
Hoshizaki, Hiroki; Suzuki, Hirofumi; Kageyama, Terutaka; and Oyobe, Kazuo, 4,652,727, Cl. 219-543.000.
Hoshizaki, Hiroki; Kawahara, Nobuaki; Suzuki, Hirofumi; and Oyobe, Kazuo, 4,711,990, Cl. 219-552.000.

Suzuki, Hirohumi: *See*—
Yoshida, Hitoshi; Suzuki, Hirohumi; Oyobe, Kazuo; Nomura, Etsuji; Matsui, Kazuma; and Miwa, Naoto, 4,671,058, Cl. 60-303.000.

Suzuki, Hirokazu; Akiyama, Takehiro; Morita, Teruo; Takeda, Hirofumi; and Masunaga, Hikotaro, to Fujitsu Limited. Variable delay gate circuit. 4,645,958, 2-24-87, Cl. 307-597.000.

Suzuki, Hirokazu: *See*—
Kojima, Shinji; Suzuki, Hirokazu; and Orikasa, Yuichi, 4,654,255, Cl. 428-261.000.
Kojima, Shinji; Suzuki, Hirokazu; and Orikasa, Yuichi, 4,656,094, Cl. 428-412.000.

Suzuki, Hiromasa: *See*—
Kasahara, Yasushi; Ashihara, Yoshihiro; and Suzuki, Hiromasa, 4,649,105, Cl. 435-5.000.

Suzuki, Hiroshi; and Imamura, Makoto, to Kabushiki Kaisha Toshiba. Waveform equalizer for signal reproduced from magnetic recording medium. 4,635,143, 1-6-87, Cl. 360-65.000.

Suzuki, Hiroshi, to Kabushiki Kaisha Toshiba. Stepping motor ; control apparatus. 4,661,755, 4-28-87, Cl. 318-696.000.

Suzuki, Hiroshi, to Kabushiki Kaisha Asahi Seisakusho; and Iwatani Sangyo Kabushiki Kaisha. Pressure regulator for a fuel gas. 4,665,945, 5-19-87, Cl. 137-613.000.

Suzuki, Hiroshi; and Ohmori, Akimitsu, to Kabushiki Kaisha Toshiba. Chassis for accommodating electronic apparatus with display monitor. 4,669,697, 6-2-87, Cl. 248-638.000.

Suzuki, Hiroshi; Asakawa, Yutaka; and Matsui, Akira, to Asahi Denka Kogyo K.K.; and A.C.R. Co., Ltd. Curable epoxy resin composition. 4,689,390, 8-25-87, Cl. 528-118.000.

Suzuki, Hiroshi. Composite membrane having a surface layer of an ultrathin film of cage-shaped zeolite and processes for production thereof. 4,699,892, 10-13-87, Cl. 502-4.000.

Suzuki, Hiroshi: *See*—
Awano, Yoshiro; Suzuki, Hiroshi; Mizuno, Takaji; Eguri, Shigeo; and Higashida, Kenji, 4,697,062, Cl. 219-130.510.
Makino, Daisuke; Sato, Hidetaka; Suzuki, Hiroshi; Uchimura, Shun-ichiro; and Suzuki, Hiroshi, 4,645,688, Cl. 427-82.000.

Makino, Daisuke; Sato, Hidetaka; Suzuki, Hiroshi; Uchimura, Shun-ichiro; and Suzuki, Hiroshi, 4,645,688, Cl. 427-82.000.
Namba, Yoshiharu; Suzuki, Hiroshi; and Sugita, Kazuhiko, 4,700,510, Cl. 51-134.50R.
Suzuki, Hirosuke; Yasumoto, Hiromi; and Umemoto, Hiroshi, to Junkosha Co., Ltd. Strip line cable comprised of conductor pairs which are surrounded by porous dielectric. 4,639,693, 1-27-87, Cl. 333-1.000.
Suzuki, Hirosuke, to Junkosha Co., Ltd. Printed circuit board. 4,640,866, 2-3-87, Cl. 428-422.000.
Suzuki, Hirosuke, to Junkosha Co., Ltd. Electrical transmission line. 4,645,868, 2-24-87, Cl. 174-117.00F.
Suzuki, Hirosuke, to Junkosha Co., Ltd. Transmission line. 4,649,228, 3-10-87, Cl. 174-36.000.
Suzuki, Hirosuke; and Imaizumi, Haruo, to Junkosha Co., Ltd. Dielectric material in sheet form. 4,701,362, 10-20-87, Cl. 428-131.000.
Suzuki, Hirosuke; and Umebayashi, Tetsuro, to Junkosha Co., Ltd. Electrical transmission line. 4,707,671, 11-17-87, Cl. 333-1.000.
Suzuki, Hiroyuki: *See*—
Nitta, Michio; Suzuki, Hiroyuki; and Fukuhara, Yoshifumi, 4,662,826, Cl. 417-206.000.
Tanimoto, Akikazu; Ishizaka, Shoji; Endo, Yutaka; Suzuki, Hiroyuki; and Yanagihara, Masamitsu, 4,687,322, Cl. 355-55.000.
Suzuki, Hisao: *See*—
Sato, Yoshiaki; and Suzuki, Hisao, 4,639,397, Cl. 428-397.000.
Suzuki, Hisashi: *See*—
Nagahama, Toshiyuki; Suzuki, Hisashi; and Yamamoto, Akira, 4,658,525, Cl. 40-564.000.
Suzuki, Hisatosi: *See*—
Ito, Keiko; Ito, Michiyasu; Tsuji, Shoichi; and Suzuki, Hisatosi, 4,705,812, Cl. 521-92.000.
Ito, Keiko; Ito, Michiyasu, Tsuji, Shoichi; Suzuki, Hisatosi; and Ito, Shoichi, 4,705,813, Cl. 521-92.000.
Matsumura, Shuji; Ito, Michiyasu; Tsuji, Syoichi; Suzuki, Hisatosi; and Ito, Syoichi, 4,699,733, Cl. 282-521.000.
Suzuki, Hisayuki: *See*—
Yabe, Yuta; Watanabe, Takamichi; and Suzuki, Hisayuki, 4,670,586, Cl. 562-466.000.
Suzuki, Hitomi: *See*—
Oku, Kentaro; Fukushima, Masakazu; Suzuki, Hitomi; and Maruyama, Masanori, 4,701,668, Cl. 315-17.000.
Takayama, Shigehiko; Suzuki, Hitomi; Maruyama, Masanori; Fukushima, Masakazu; and Kurashige, Mitsuhiro, 4,713,588, Cl. 315-382.000.
Suzuki, Hitoshi; and Sato, Hiroaki, to Kabushiki Kaisha Toshiba. Piezoelectric resonating device. 4,642,508, 2-10-87, Cl. 310-321.000.
Suzuki, Hitoshi; Ebata, Yasuo; Matsumura, Sadao; and Ushizawa, Jisaburo, to Kabushiki Kaisha Toshiba. Surface acoustic wave device. 4,672,255, 6-9-87, Cl. 310-313.00A.
Suzuki, Hitoshi: *See*—
Nagai, Masahide; Noda, Minoru; and Suzuki, Hitoshi, 4,701,100, Cl. 414-751.000.
Suzuki, Ikuya: *See*—
Sakaida, Atsuo; and Suzuki, Ikuya, 4,653,943, Cl. 400-124.000.
Suzuki, Isamu, to Kabushiki Kaisha Toshiba. Gas turbine vane. 4,697,985, 10-6-87, Cl. 416-97.00R.
Suzuki, Isamu: *See*—
Tanioka, Norio; Kimura, Hisayoshi; and Suzuki, Isamu, 4,674,719, Cl. 248-56.000.
Suzuki, Isao: *See*—
Ishiyama, Kazuo; Yoshida, Masashi; Suzuki, Isao; Kudo, Ichiro; Otaki, Akira; and Okuyama, Noboru, 4,671,499, Cl. 266-275.000.
Takashima, Kiyoshi; Suzuki, Isao; Yoshida, Masashi; Tanaka, Ryutatsu; Masumitsu, Noriyuki; Kinoshita, Kazuhiro; and Ishii, Hiromi, 4,686,081, Cl. 420-29.000.
Uzawa, Sumiyo; Fujiwara, Tetsuo; Suzuki, Isao; and Endo, Akira, 4,652,157, Cl. 400-124.000.
Suzuki, Iwatoshi: *See*—
Shigemoto, Hiromi; Yamamoto, Akio; and Suzuki, Iwatoshi, 4,693,677, Cl. 425-376.00R.
Suzuki Jidosha Kogyo Kabushiki Kaisha: *See*—
Kaneta, Keisuke, 4,648,371, Cl. 123-492.000.
Kaneta, Keisuke, 4,681,079, Cl. 123-491.000.
Nakamura, Daisuke, 4,668,198, Cl. 440-75.000.
Suzuki, Fujiyuki; and Osada, Akira, 4,697,559, Cl. 123-325.000.
Umehara, Kazuhiro, 4,697,560, Cl. 123-335.000.
Yamamoto, Wataru, 4,637,210, Cl. 60-602.000.
Suzuki, Jiro; Nishino, Atsushi; Hosaka, Masato; Ono, Yukiyoshi; and Takeuchi, Yasuhiro, to Matsushita Electric Industrial Co., Ltd. Burner. 4,676,737, 6-30-87, Cl. 431-328.000.
Suzuki, Junji: *See*—
Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.
Suzuki, Kaoru, to Tokyo Shibaura Denki Kabushiki Kaisha. Processor and method of processing image data. 4,713,789, 12-15-87, Cl. 364-724.000.
Suzuki, Katsuaki: *See*—
Komiya, Jujiro; Kikuchi, Yuji; and Suzuki, Katsuaki, 4,655,977, Cl. 261-153.000.
Suzuki, Katsuhiro, to Sony Corporation. Disc cartridge having positive isolation means when in storage. 4,692,831, 9-8-87, Cl. 360-133.000.
Suzuki, Katsuhisa: *See*—
Okamoto, Masayoshi; Suzuki, Katsuhisa; Hoshino, Ryoichi; and Sasaki, Hironaka, 4,712,612, Cl. 165-146.000.
Suzuki, Katsumi, to NEC Corporation. X-ray mask and method manufacturing the same. 4,634,643, 1-6-87, Cl. 430-5.000.
Suzuki, Katsumi: *See*—
Hirose, Masataka; Ueno, Tsuyoshi; and Suzuki, Katsumi, 4,633,8
Cl. 118-719.000.
Sakamoto, Setsu; Nakagawa, Yasuhiro; Yamauchi, Isamu; Zaiz
Takashi; Suzuki, Katsumi; Shimamoto, Susumu; and Nakajm
Hideo, 4,675,156, Cl. 420-34.000.
Yanabu, Satoru; Mizuguchi, Hitoshi; Ikeda, Hisaoshi; Suzu
Katsumi; Toyoda, Mitsuru; and Thuries, Edmond, 4,665,289,
200-148.00A.
Suzuki, Katsunori: *See*—
Ueda, Shigeta; Hombu, Mitsuyuki; Honda, Kazuo; Ueda, Akite
Suzuki, Katsunori; and Shima, Seiya, 4,672,520, Cl. 363-37.00
Suzuki, Katutoyo: *See*—
Shimba, Satoru; Iwamuro, Masao; Ito, Kenji; Suzuki, Katuto
and Hamada, Fumio, 4,666,825, Cl. 430-385.000.
Suzuki, Kazufumi: *See*—
Unno, Shohei; Nakakawazi, Mikio; and Suzuki, Kazufu
4,692,760, Cl. 340-756.000.
Suzuki, Kazuhiro, to Nippon Cable System, Inc. Locking mechanis
4,651,583, 3-24-87, Cl. 74-96.000.
Suzuki, Kazuhiro, to Nippon Cable Systems Inc. Transmission operating device. 4,669,329, 6-2-87, Cl. 74-473.00R.
Suzuki, Kazuhiro: *See*—
Himono, Yusaku; Moriya, Yoshiaki; Miyahara, Masato; and Suzu
Kazuhiro, 4,695,124, Cl. 350-96.200.
Suzuki, Kazuichi: *See*—
Amagasa, Nobutada; Takatani, Ryoji; Inoo, Hiroshi; Suzuki, Kazu
chi; and Kiriyama, Mitsuo, 1,646,131, Cl. 357-79.000.
Suzuki, Kazuie; Torimaru, Takashi; and Ohta, Hiromibu, to Yokogaw
Hokushin Electric Corporation. Electromagnetic flowmete
4,663,976, 5-12-87, Cl. 73-861.120.
Suzuki, Kazumasa: *See*—
Takazoe, Ichiro; Ohta, Kosei; Shimizu, Junichi; Suzuki, Kazumas
Iwakura, Tatsuya; and Nakajima, Yoshikazu, 4,695,326, C
127-30.000.
Suzuki, Kazunori; Katsuta, Hiroo; and Toriumi, Yuki, to Canon Kab
shiki Kaisha. Press apparatus for planar members. 4,637,850, 1-20-87
Cl. 156-60.000.
Suzuki, Kazunori: *See*—
Nagahama, Masamitsu; and Suzuki, Kazunori, 4,708,508, C
401-199.000.
Toriumi, Yuki; Suzuki, Kazunori; and Katsuta, Hiroo, 4,643,57
Cl. 356-401.000.
Toshikuni, Masami; Suzuki, Kazunori; and Yoshida, Norie
4,693,833, Cl. 210-759.000.
Suzuki, Kazuo: *See*—
Kurihara, Haruki; Tamura, Hideo; Suzuki, Kazuo; and Matsumoto
Kenji, 4,663,762, Cl. 372-45.000.
Ooyabu, Shinji; Suzuki, Kazuo; Kondo, Masahiro; and Nakamura
Hirotoshi, 4,653,460, Cl. 123-645.000.
Suzuki, Kazuto: *See*—
Iwahashi, Hiroshi; Asano, Masamichi; Momodomi, Masak
Minagawa, Hidenobu; Suzuki, Kazuto; and Narita, Akira
4,697,101, Cl. 307-452.000.
Suzuki, Kazuyuki, to Sanden Corporation. Article storage and dispensing device with sold out indicating mechanism. 4,674,653, 6-23-87, Cl. 221-6.000.
Suzuki, Kenchiro: *See*—
Sawada, Kouji; Miura, Kiyokatsu; Suzuki, Kenchiro; Idosaki
Hidetaka; and Kazusa, Hideo, 4,714,368, Cl. 403-132.000.
Suzuki, Keitaro: *See*—
Ikenoue, Yutaka; Endoh, Hiroyuki; Ishii, Kei; and Suzuki, Keitaro
4,648,903, Cl. 75-230.000.
Suzuki, Keizo: *See*—
Okudaira, Sadayuki; Nishimatsu, Shigeru; Suzuki, Keizo; Nin
miya, Ken; and Hamazaki, Ryoji, 4,705,595, Cl. 156-643.000.
Suzuki, Kempei; Iwanaga, Yushi; Sato, Hiroshi; Sato, Kohei; Igarashi
Noriyuki; and Koya, Shinichi, to Takeda Riken Co., Ltd. IC test
equipment. 4,691,831, 9-8-87, Cl. 209-573.000.
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi
Hasegawa, Sadao; and Yamauchi, Takeshi, to Showa Aluminum
Industries K.K. Method for horizontal continuous casting of a metal
where the lower mold/cast metal contact point is horizontally displaced. 4,653,571, 3-31-87, Cl. 164-490.000.
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi
Hasegawa, Sadao; and Yamauchi, Takeshi, to Showa Aluminum
Industries K.K. Apparatus for horizontal continuous casting of metal.
4,688,624, 8-25-87, Cl. 164-440.000.
Suzuki, Ken'ichi. Protective device for a grinder or the like. 4,635,434
1-13-87, Cl. 57-273.000.
Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, to Kabushiki
Kaisha Toyota Chuo Kenkyusho. Method of brazing an aluminum
material. 4,655,385, 4-7-87, Cl. 228-223.000.
Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, to Kabushiki
Kaisha Toyota Chuo Kenkyusho. Brazing flux. 4,670,067, 6-2-87, Cl.
148-26.000.
Suzuki, Kenichi; Miura, Fusayoshi; and Shimizu, Fumio, to Kabushiki
Kaisha Toyota Chuo Kenkyusho. Brazing flux. 4,689,092, 8-25-87, Cl.
148-26.000.
Suzuki, Kenichi: *See*—
Yonekura, Koji; Suzuki, Kenichi; Takahashi, Yoshiyasu; and
Iwahori, Hiroaki, 4,643,241, Cl. 164-101.000.
Suzuki, Kenichirou; Fujitani, Yoshiyasu; Yoshimoto, Taisuke; and
Muraki, Hideaki, to Kabushiki Kaisha Toyota Chuo Kenkyush

Catalyst for oxidizing an offensively smelling substance and a method of removing an offensively smelling substance. 4,661,329, 4-28-87, Cl. 423-245.000.

Suzuki, Kenji; and Ito, Yoshinori, to Kabushiki Kaisha Asahi Seisakusho. Safety gas container. 4,660,714, 4-28-87, Cl. 206-0.600.

Suzuki, Kenji, to Fuji Photo Film Co., Ltd. Picture image information read-out method and apparatus. 4,686,571, 8-11-87, Cl. 358-213.000.

Suzuki, Kenji, to Fuji Photo Film Co., Ltd. Color image sensor with picture elements each comprising an M × N matrix of red, green, and blue photoelectric conversion elements featuring controllable charge storage time and selective readout for each color. 4,692,794, 9-8-87, Cl. 358-44.000.

Suzuki, Kenji, to Fuji Photo Film Co., Ltd. Color image sensor. 4,709,259, 11-24-87, Cl. 358-48.000.

Suzuki, Kenji; Terashita, Takaaki; and Murayama, Jin, to Fuji Photo Film Co., Ltd. Color filter and color image sensor using the same. 4,710,803, 12-1-87, Cl. 358-41.000.

Suzuki, Kenji; *See*—
Akashi, Akira; and Suzuki, Kenji, 4,676,623, Cl. 354-408.000.
Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.
Kogane, Mikio; Suzuki, Kenji; Kito, Eiichi; Kubota, Kazufumi; and Tokuda, Kanji, 4,639,118, Cl. 355-29.000.
Nishi, Tomoya; Amari, Mitsuhiro; and Suzuki, Kenji, 4,707,153, Cl. 400-121.000.
Suzuki, Takashi; Matsumura, Susumu; Suzuki, Kenji; and Otaka, Keiji, 4,659,917, Cl. 250-201.000.
Takagi, Hiroshi; Shinmi, Akira; and Suzuki, Kenji, 4,673,612, Cl. 428-216.000.
Tatsuoka, Toshio; Suzuki, Kenji; Imao, Kayoko; Satoh, Fumio; Miyano, Seiji; and Sumoto, Kunihiro, 4,713,453, Cl. 544-60.000.
Watarai, Hisao; Tanaka, Masahiro; Masuda, Shuji; Suzuki, Kenji; and Masumoto, Tsuyoshi, 4,636,806, Cl. 346-1.100.
Yotsuya, Isao; Suzuki, Kenji; and Asano, Kazumasa, 4,668,576, Cl. 428-353.000.

Suzuki, Kiminobu; *See*—
Magome, Koichi; Toda, Haruki; Koinuma, Hiroyuki; Sahara, Hiroshi; Suzuki, Kiminobu; Ohshima, Shigeo; and Komatsu, Kenji, 4,678,934, Cl. 307-279.000.

Suzuki, Kimio; *See*—
Hakata, Yoshitami; Wakuda, Masanori; and Suzuki, Kimio, 4,710,770, Cl. 340-870.180.

Suzuki, Kinuko; *See*—
Imao, Shoji; Nakamoto, Hideo; Osaka, Norihisa; Takesue, Masatoshi; Kodama, Hitoshi; Suzuki, Kinuko; and Inomoto, Masataka, deceased, 4,704,328, Cl. 428-324.000.

Suzuki, Kisaku. Method of making maki-zushi and an apparatus for making maki-zushi. 4,637,304, 1-20-87, Cl. 99-450.200.

Suzuki, Kiyoaki; Iwahara, Makoto; Suzuki, Hidetsugu; and Sakamoto, Atsushi, to Victor Company of Japan, Ltd. Stereoscopic television system and apparatus with 4 to 1 interlace display. 4,672,434, 6-9-87, Cl. 358-88.000.

Suzuki, Kiyoaki; *See*—
Asakuno, Hiroyoshi; Mori, Kinya; Suzuki, Kiyoaki; Nishida, Mamoru; Iwai, Kenji; Tamamushi, Masahiro; and Kawasaki, Teruo, 4,638,030, Cl. 524-536.000.

Suzuki, Kiyoshi; *See*—
Nakagawa, Takeo; and Suzuki, Kiyoshi, 4,640,156, Cl. 82-1.00C.
Nakagawa, Takeo; and Suzuki, Kiyoshi, 4,703,898, Cl. 241-30.000.

Suzuki, Kizito; Isoguchi, Seiichi; Watanabe, Koji; Yokoyama, Shotaro; and Nishibe, Takashi, to Konishiroku Photo Industry Co., Ltd.; Fuji Electric Co., Ltd.; and Fuji Electric Corporate Research and Development Co., Ltd. Range finder. 4,652,119, 3-24-87, Cl. 356-1.000.

Suzuki, Kizito; Tsutsumi, Takashi; Yokoyama, Shotaro; and Nishibe, Takashi, to Konishiroku Photo Industry Co., Ltd.; Fuji Electric Company, Ltd.; and Fuji Electric Corporate Research and Development Co., Ltd. Distance measuring equipment. 4,668,084, 5-26-87, Cl. 356-1.000.

Suzuki, Ko; *See*—
Yamashiro, Hiroshi; and Suzuki, Ko, 4,714,506, Cl. 156-80.000.

Suzuki, Kohji; *See*—
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,652,356, Cl. 204-283.000.
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,655,886, Cl. 204-98.000.
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,655,887, Cl. 204-98.000.
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,661,218, Cl. 204-98.000.
Oda, Yoshio; Morimoto, Takeshi; and Suzuki, Kohji, 4,666,574, Cl. 204-98.000.

Suzuki, Koichi, to Sugiyasu Industries Co., Ltd. Mechanism for automatically storing swing arms used for apparatus for lifting automobiles for repair. 4,679,660, 7-14-87, Cl. 187-8.410.

Suzuki, Koichi; Murayama, Noboru; Ito, Masahiro; and Sato, Kei, to Ricoh Company, Ltd. Halftone image processing method. 4,698,691, 10-6-87, Cl. 358-283.000.

Suzuki, Koichi, to Sugiyasu Industries Co., Ltd. Device for fixing swing arm used for apparatus for lifting automobiles for repair. 4,715,477, 12-29-87, Cl. 187-8.470.

Suzuki, Koji, to Canon Kabushiki Kaisha. Fan motor with a fan frame formed in part by a portion of a motor base. 4,663,549, 5-5-87, Cl. 310-62.000.

Suzuki, Koji, to Canon Kabushiki Kaisha. Surface potential electrometer and image forming apparatus using the same. 4,683,436, 7-28-87, Cl. 324-458.000.

Suzuki, Koji; *See*—
Shirai, Tsuneo; and Suzuki, Koji, 4,645,583, Cl. 204-435.000.
Takahashi, Kazuyoshi; Suzuki, Koji; Nagahira, Joji; Yoshihara, Kunio; Matsui, Toshiro; and Ishikawa, Tadashi, 4,709,319, Cl. 363-49.000.
Teranishi, Masayuki; Suzuki, Koji; Kase, Hiroshi; Kitamura, Shigeto; Shuto, Katsuichi; and Omori, Kenji, 4,657,916, Cl. 514-312.000.
Yamashita, Tatsuo; Terada, Masafumi; and Suzuki, Koji, 4,696,895, Cl. 435-7.000.

Suzuki, Kouhei; *See*—
Saito, Tamio; and Suzuki, Kouhei, 4,672,221, Cl. 250-578.000.

Suzuki, Kouichi; *See*—
Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, 4,655,973, Cl. 260-404.000.

Suzuki, Kouji; Ikeda, Mitsushi; and Aoki, Toshio, to Tokyo Shibaura Denki Kabushiki Kaisha. Method of manufacture thin film transistor. 4,700,458, 10-20-87, Cl. 437-83.000.

Suzuki, Koutarou; *See*—
Kawai, Yoichi; Abe, Masaru; Maki, Masami; Suzuki, Koutarou; and Hoshino, Minoru, 4,663,369, Cl. 523-203.000.

Suzuki, Kozo; *See*—
Funakoshi, Yasutomo; Miyazaki, Masamitu; Sakairi, Tadashi; and Suzuki, Kozo, 4,654,693, Cl. 357-74.000.

Suzuki, Kuniaki, to Kabushiki Kaisha Toshiba. Impact dot matrix printer. 4,653,941, 3-31-87, Cl. 400-121.000.

Suzuki, Kunihiko; and Enomoto, Koji, to Nissan Motor Co., Ltd. Four-wheel drive system with differential control response to tire-to-tire friction. 4,669,569, 6-2-87, Cl. 180-249.000.

Suzuki, Kunio; Onuma, Kunihiko; and Masui, Koji, to Hitachi, Ltd. Magnetic bubble file system. 4,658,376, 4-14-87, Cl. 365-1.000.

Suzuki, Makoto; and Koie, Hiroshi, to Brother Kogyo Kabushiki Kaisha. Word processing apparatus. 4,651,300, 3-17-87, Cl. 364-900.000.

Suzuki, Makoto; *See*—
Honma, Noriyuki; Kitsukawa, Goro; and Suzuki, Makoto, 4,697,109, Cl. 307-475.000.
Kojima, Yasumichi; Ueno, Hideo; Hayashi, Yasuhiro; Suzuki, Makoto; and Furukawa, Satoshi, 4,671,684, Cl. 400-63.000.
Sawada, Koji; and Suzuki, Makoto, 4,667,764, Cl. 180-297.000.

Suzuki, Mamoru; and Fukui, Shinta, to Tokyo Electric Power Co., Inc., The, and Mitsubishi Denki Kabushiki Kaisha. Method for determining reliability in electric power system. 4,641,248, 2-3-87, Cl. 364-492.000.

Suzuki, Masaaki; *See*—
Aonuma, Masashi; Suzuki, Masaaki; Sakakibara, Satoshi; Hibino, Noburo; and Kamada, Koh, 4,663,209, Cl. 428-141.000.

Suzuki, Masaharu; *See*—
Tanji, Hiroaki; Suzuki, Masaharu; Nomura, Kenji; Watanabe, Shojiro; and Kawasaki, Takashi, 4,690,841, Cl. 428-35.000.

Suzuki, Masahiko; Matsui, Kazama; Moriguchi, Koichi; and Kuroyanagi, Masatoshi, to Nippondenso Co., Ltd. Power steering system for vehicles. 4,658,584, 4-21-87, Cl. 60-450.000.

Suzuki, Masahiko; *See*—
Iwata, Hiroshi; Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Koichi; Horiuchi, Yasuhiro; and Nakamura, Kanehito, 4,710,106, Cl. 417-213.000.
Kuroyanagi, Masatoshi; Suzuki, Masahiko; Moriguchi, Kohichi; Matsui, Kazuma; and Iwata, Hiroshi, 4,652,215, Cl. 417-219.000.
Tsukahara, Kengi; Matsui, Kazuma; Abe, Taizoh; and Suzuki, Masahiko, 4,697,991, Cl. 417-219.000.

Suzuki, Masahiro; *See*—
Matsushima, Seiichi; Higashihara, Toshio; Shimizu, Mitsuru; Yoshizawa, Ken; Suzuki, Masahiro; and Sugiyama, Toshinori, 4,710,913, Cl. 369-280.000.

Suzuki, Masaki, deceased (by Suzuki, Yumiko, legal representative); and Akashi, Goro, to Fuji Photo Film Co., Ltd. Multichannel magnetic head. 4,636,898, 1-13-87, Cl. 360-122.000.

Suzuki, Masami; Hirota, Tatsuya; and Maeda, Masahiko, to Sanyo Electric Co., Ltd. Clothes dryer. 4,640,022, 2-3-87, Cl. 34-48.000.

Suzuki, Masami, to Kabushiki Kaisha Komatsu Seisakusho. Device for varying feed stroke of feed bars for use in a transfer press. 4,655,097, 4-7-87, Cl. 74-53.000.

Suzuki, Masami; Yamaguchi, Kouki; Katayama, Hisato; Muta, Tadayoshi; Okubo, Masakuni; Mochizuki, Akira; and Adachi, Hiroshi, to Kajima Corporation. Clean room having partially different degree of cleanliness. 4,699,640, 10-13-87, Cl. 55-385.00A.

Suzuki, Masami; *See*—
Iida, Muneo; Simizu, Jyosei; Suzuki, Masami; Okamoto, Nobuyuki; Kazama, Toshinori; Honda, Masanobu; Mochida, Jiro; Tada, Seiji; and Fujii, Masayuki, 4,660,110, Cl. 360-98.000.

Suzuki, Masanobu; *See*—
Watanabe, Hiroshi; Johzuka, Takashi; and Suzuki, Masanobu, 4,691,376, Cl. 455-131.000.

Suzuki, Masanori; Ichikawa, Yoshiaki; Iwatsuka, Nobuyoshi; and Ozaki, Norihiko, to Hitachi, Ltd. Manipulator. 4,662,814, 5-5-87, Cl. 414-730.000.

Suzuki, Masanori, to Mitsubishi Denki Kabushiki Kaisha. Gate turn-off thyristor. 4,710,792, 12-1-87, Cl. 357-38.000.

Suzuki, Masanori; *See*—
Inoue, Takeshi; and Suzuki, Masanori, 4,652,784, Cl. 310-320.000.
Utsumi, Kazuaki; Ochi, Atsushi; Suzuki, Masanori; and Midorikawa, Mitsuhiro, 4,681,667, Cl. 204-15.000.

Yamaguchi, Yoshimitsu; Shibata, Tadahiko; Suzuki, Masanori; and Toda, Takezi, 4,690,349, Cl. 242-75.500.

Suzuki, Masao: *See*—
Takayama, Tsutomu; Hashimoto, Seiji; Kaji, Toshio; Suzuki, Masao; and Tojo, Akihiko, 4,682,232, Cl. 358-172.000.

Suzuki, Masaru, to Kabushiki Kaisha Tokai Rika Denki Seisakusha. Anti-dazzle device for a rearview mirror of a motor vehicle. 4,634,835, 1-6-87, Cl. 219-219.000.

Suzuki, Masaru, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Manual adjusting device for tiltable outer mirror. 4,636,045, 1-13-87, Cl. 350-606.000.

Suzuki, Masaru, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Pressure switch with non-conductive housing and axially spaced terminals. 4,636,598, 1-13-87, Cl. 200-83.00N.

Suzuki, Masaru, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Door mirror. 4,657,362, 4-14-87, Cl. 350-637.000.

Suzuki, Masaru; Tsujiuchi, Yoshio; Ogawa, Akira; and Usami, Tadashi, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Mirror angle adjusting arrangement. 4,660,944, 4-28-87, Cl. 350-635.000.

Suzuki, Masaru: *See*—
Henmi, Yoshiyasu; Terada, Takashi; Suzuki, Masaru; and Ninomiya, Hiroshi, 4,701,327, Cl. 424-455.000.

Suzuki, Masato; Narita, Hiroshi; Okamatsu, Shigetoshi; and Abe, Kingo, to Hitachi, Ltd. Control system for power converter. 4,675,799, 6-23-87, Cl. 363-58.000.

Suzuki, Masatoshi: *See*—
Aoyagi, Yoshiki; Suzuki, Masatoshi; Inoue, Tadashi; and Tsukakoshi, Kunio, 4,680,227, Cl. 428-331.000.

Suzuki, Masayuki; and Kawamura, Masaharu, to Canon Kabushiki Kaisha. Motor drive device for camera. 4,647,169, 3-3-87, Cl. 354-173.100.

Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, to Canon Kabushiki Kaisha. Drive device for camera. 4,659,201, 4-21-87, Cl. 354-152.000.

Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, to Canon Kabushiki Kaisha. Film transport apparatus for camera. 4,673,272, 6-16-87, Cl. 354-173.110.

Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kawamura, Masaharu; Harada, Yoshihito; and Kobayashi, Ryuichi, to Canon Kabushiki Kaisha. Motorized drive device for camera. 4,699,488, 10-13-87, Cl. 354-173.110.

Suzuki, Masayuki: *See*—
Fukuda, Tsuyoshi; Suzuki, Masayuki; and Kiuchi, Masayoshi, 4,673,278, Cl. 354-479.000.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,679,925, Cl. 354-173.100.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,690,532, Cl. 354-173.110.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,697,899, Cl. 354-173.110.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,699,487, Cl. 354-173.100.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,716,428, Cl. 354-173.110.
Nakagawa, Kenzo; and Suzuki, Masayuki, 4,688,206, Cl. 369-291.000.
Ohara, Tsunemasa; Suzuki, Masayuki; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,671,635, Cl. 354-173.100.
Sato, Noriko; and Suzuki, Masayuki, 4,715,218, Cl. 73-86.000.
Suda, Shigeyuki; Suzuki, Masayuki; and Ando, Toshinori, 4,657,352, Cl. 350-432.000.
Uedaira, Satoru; Yamanoi, Hiroshi; Yamaguchi, Takashi; Suzuki, Masayuki; and Tamura, Hidemasa, 4,677,083, Cl. 423-598.000.
Yamanoi, Hiroshi; Uedaira, Satoru; Suzuki, Masayuki; and Tamura, Hidemasa, 4,668,500, Cl. 423-598.000.

Suzuki Mechanical Engineering Co., Ltd.: *See*—
Suzuki, Tsuneo, 4,642,834, Cl. 15-21.008.

Suzuki, Michio: *See*—
Saiki, Atsushi; Suzuki, Michio; Sunami, Hideo; Asai, Shojiro; Maki, Michiyoshi; and Asami, Kinichiro, 4,693,173, Cl. 98-31.500.
Saito, Susumu; Suzuki, Michio; Suda, Kyo; Yatsugake, Yasuo; and Tsukada, Kazuya, 4,685,802, Cl. 356-339.000.
Takai, Yoshihiro; Uematsu, Katsumi; and Suzuki, Michio, 4,661,001, Cl. 400-103.000.

Suzuki, Migaku; Kobayashi, Toshio; and Imai, Shigeo, to Uni-Charm Corporation. Method for production of non-woven fabric. 4,665,597, 5-19-87, Cl. 28-104.000.

Suzuki, Migaku; Sasaki, Satoshi; Mitsuno, Takashi; and Inagaki, Hiroyuki, to Uni-Charm Corporation. Disposable diaper and method for incorporation of elastic member into such diaper. 4,687,477, 8-18-87, Cl. 604-385.00A.

Suzuki, Migaku; and Nozaki, Satoshi, to Uni-Charm Corporation. Facing for absorptive articles and process for making it. 4,704,112, 11-3-87, Cl. 604-378.000.

Suzuki, Mikio; and Tsuooka, Shigeo, to Toyoda Koki Kabushiki Kaisha. Linear solenoid-operated valve for use in power steering system. 4,643,237, 2-17-87, Cl. 137-625.380.

Suzuki, Mikio; Iwashita, Shigeo; and Hayashi, Masaaki, to Toyoda Koki Kabushiki Kaisha. Electric power steering device for a motor vehicle. 4,685,528, 8-11-87, Cl. 180-79.100.

Suzuki, Mikio: *See*—
Fujikawa, Yoshihiro; Suzuki, Mikio; Sakashita, Mitsuaki; Tsuru, Nobatomo; and Miyasaka, Tadashi, 4,654,348, Cl. 514-256.0
Nakamura, Keiichi; Eto, Kunihiko; Suzuki, Mikio; Hayashi, Masaaki; and Iwashita, Shigeo, 4,653,601, Cl. 180-79.100.
Nakamura, Keiichi; Honaga, Susumu; Suzuki, Mikio; and Tachi, Yoshiyuki, 4,676,334, Cl. 180-142.000.
Nakamura, Keiichi; and Suzuki, Mikio, 4,715,464, Cl. 180-142.

Suzuki, Minoru: *See*—
Mori, Kenzo; Yasuda, Hyo; and Suzuki, Minoru, 4,635,065, 342-435.000.

Suzuki, Mitsuo; Hashimoto, Hitoshi; Ichikawa, Nobuyasu; Yamaichiho; Ozawa, Akira; and Matsuyama, Taizo, to Honda Giken Kogyo Kabushiki Kaisha. Drilling machine tool. 4,656,726, 4-14-87, Cl. 29-568.000.

Suzuki, Mitsuo: *See*—
Tanaka, Hiroyoshi; Suzuki, Mitsuo; and Ueda, Fujio, 4,698,194, 264-185.000.

Suzuai, Mitsutoshi; Morita, Yoshitaka; Okada, Masami; and Shimoda, Jun, to Kabushiki Kaisha Tsuchiya Seisakusho. Fluid filter with pleated filter medium. 4,710,297, 12-1-87, Cl. 210-493.200.

Suzuki, Morio, to Nissan Motor Co., Ltd. Vibration damping system for automotive vehicle. 4,662,432, 5-5-87, Cl. 165-41.000.

Suzuki, Motomu; and Asahina, Hiroshi, to Kabushiki Kaisha Toshiba. Digital fluoroscopy apparatus. 4,639,867, 1-27-87, Cl. 364-414.000.

Suzuki Motor Company Limited: *See*—
Hirose, Takeo; and Nozue, Takaji, 4,630,210, Cl. 280-690.000.
Hirose, Takeo; Tsutsumikoshi, Shinobu; and Machii, Tomo, 4,699,229, Cl. 180-9.210.
Kawamura, Seiichi, 4,644,930, Cl. 123-41.310.
Takahashi, Ken; and Kiryu, Munemori, 4,688,523, Cl. 123-41.32
Takahashi, Ken, 4,688,524, Cl. 123-41.320.
Takahashi, Ken; Hirata, Chiaki; and Ishioka, Yuji, 4,712,629, 180-68.100.
Tsutsumikoshi, Shinobu; and Goto, Akira, 4,650,203, 280-269.000.

Suzuki, Motoyoshi: *See*—
Mizuno, Yoshikazu; Ninoyu, Yutaka; Suzuki, Motoyoshi; Ikuma, Akira, 4,658,150, Cl. 307-10.008.

Suzuki, Motoyuki: *See*—
Takematsu, Tetsuo; Takeuchi, Yasutomo; Hiraishi, Kozo; Toshikazu; Nishimula, Shoji; Suzuki, Motoyuki; Sato, Masahi and Hayashi, Hiroshi, 4,657,581, Cl. 71-118.000.

Suzuki, Munehiro; Kimpara, Masaomi; and Tsuda, Kiyoshi, to American Cyanamid Company. Granular bait compositions for the control of ants employing a pyrimidinone derivative in combination with ground pupa of silkworm. 4,657,912, 4-14-87, Cl. 514-275.000.

Suzuki, Muneo; Kondo, Mikio; Morimoto, Makoto; and Kayano, Kazuhito, to Matsushita Electric Works, Ltd. Passive infrared detector. 4,672,206, 6-9-87, Cl. 250-342.000.

Suzuki, Naruhito. Multiple simultaneous access memory. 4,656,6 4-7-87, Cl. 365-230.000.

Suzuki, Narumi; and Takagi, Hisamitsu, to Fujitsu Limited. Hous and securing structure for radio communication device. 4,714,3 12-22-87, Cl. 312-7.100.

Suzuki, Nichiro; Ogushi, Yoshimi; Imai, Kiyoshi; Ohta, Nobuhiro; Ueno, Susumu, to Shin-Etsu Chemical Co., Ltd. Heat-resistant flexible laminate for substrate of printed circuit board and a method for the preparation thereof. 4,639,285, 1-27-87, Cl. 156-272.600.

Suzuki, Nitaro: *See*—
Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayato; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaz 4,712,742, Cl. 241-20.000.

Suzuki, Noboru: *See*—
Hirano, Shigeki; Shibagaki, Masahiro; Iyo, Hidetaka; Sese Reiichiro; Iwami, Munenori; and Suzuki, Noboru, 4,693,777, 156-345.000.
Yamamoto, Hiromi; Imai, Miho; and Suzuki, Noboru, 4,694,525, 15-160.000.

Suzuki, Nobuhiko. Brush for cleaning clothes. 4,639,965, 2-3-87, 15-104.00A.

Suzuki, Nobuhiko. Fabric currycomb. 4,686,711, 8-18-87, Cl. 104.00A.

Suzuki, Nobuhiro, to Futaba Denshi Kogyo Kabushiki Kaisha. Mo control with radio control device. 4,687,975, 8-18-87, Cl. 318-267.0

Suzuki, Nobuhiro, to Futaba Denshi Kogyo Kabushiki Kaisha. Ka servo system. 4,703,241, 10-27-87, Cl. 318-599.000.

Suzuki, Nobukazu: *See*—
Ikeda, Satoshi; and Suzuki, Nobukazu, 4,707,415, Cl. 428-621.0

Suzuki, Nobuo; Okamura, Kikuko; Sugiyama, Genpei; and Suzu Susumu, to Hodogaya Chemical Co., Ltd. Electrophotographic containing metal complex charge control agent. 4,683,185, 7-28 Cl. 430-110.000.

Suzuki, Nobuo: *See*—
Sekine, Hirokazu; Morimune, Katuhiko; Watanabe, Masaharu; Suzuki, Nobuo, 4,649,408, Cl. 357-24.000.
Sugimoto, Takayuki; Okuzawa, Yoshiyuki; and Suzuki, Nobu 4,644,756, Cl. 62-160.000.
Tajima, Atsushi; Suzuki, Nobuo; and Kuse, Tsutomu, 4,634,624, 428-212.000.
Yatabe, Toshiaki; Nishihara, Toshio; and Suzuki, Nobuo, 4,639,0 Cl. 350-1.700.

Suzuki, Nobuyoshi: *See*—
Noriya, Yasuo; Suzuki, Nobuyoshi; and Deguchi, Toru, 4,665,131, Cl. 525-277.000.
Noriya, Yasuo; Suzuki, Nobuyoshi; and Okada, Yuji, 4,665,132, Cl. 525-277.000.

Suzuki, Nobuyuki, to Canon Kabushiki Kaisha. Self-timer device for a camera. 4,641,937, 2-10-87, Cl. 354-238.100.

Suzuki, Nobuyuki; and Shimizu, Masami, to Canon Kabushiki Kaisha. Motor driven film rewind device for camera. 4,679,926, 7-14-87, Cl. 354/173.110.

Suzuki, Nobuyuki; Shimizu, Masao; and Katsuragawa, Mitsuhiro, to Canon Kabushiki Kaisha. Driving circuit of a vibration wave motor. 4,710,671, 12-15-87, Cl. 310-316.000.

Suzuki Nobuyuki: *See*—
Kuchi, Masayoshi; and Suzuki, Nobuyuki, 4,645,326, Cl. 354-484.000.
Nagaoka, Kazuo; Isobe, Tomoichi; Kanasugi, Toshihiko; Suzuki, Nobuyuki; Wakabayashi, Sadao; Uchida, Kenji; Tsukamoto, Hideharu; Ohno, Mitsuru; and Shimano, Tadahiko, 4,649,648, Cl. 33-125.00R.
Someya, Hiromi; Aihara, Yoshihiko; Mizoguti, Toyokazu; and Suzuki, Nobuyuki, 4,673,277, Cl. 354-474.000.
Sueda, Yasuo; Aiyfuku, Kiyoshi; Sunouchi, Akio; and Suzuki, Nobuyuki, 4,681,420, Cl. 354-409.000.
Uchidoi, Masanori; and Suzuki, Nobuyuki, 4,681,441, Cl. 356-222.000.

Suzuki, Norio, to NEC Corporation. Apparatus for detecting movement in a television signal based on taking ratio of signal representing framedifference to signal representing sum of picture element differences. 4,639,767, 1-27-87, Cl. 358-21.00R.

Suzuki, Norio; Watabe, Akira; and Yamashita, Kazunari, to Honda GikenKogyo Kabushiki Kaisha. Air intake side secondary air supply system for an internal combustion engine. 4,677,959, 7-7-87, Cl. 123-597.000.

Suzuki, Norio, to NEC Corporation. Color signal demodulation apparatus. 4,709,257, 11-24-87, Cl. 358-23.000.

Suzuki, Norio: *See*—
Isodi, Sumiro; Suzuki, Norio; Miwa, Tamotsu; and Aihara, Shinzo, 4,652,646, Cl. 544-251.000.
Kawashima, Sadao; Mori, Yoshikazu; Iwasaki, Masayoshi; and Suzuki, Norio, 4,699,007, Cl. 73-622.000.
Okuyama, Kousuke; Suzuki, Norio; Meguro, Satoshi; and Nagasawa, Kouichi, 4,637,124, Cl. 29-571.000.

Suzuki, Noriyasu: *See*—
Kinoshita, Yoshichika; and Suzuki, Noriyasu, 4,647,136, Cl. 339-12500R.
Takeuchi, Hitoshi; Yamada, Naoki; Ikemura, Hisao; and Suzuki, Noriyasu, 4,676,189, Cl. 118-626.000.

Suzuki, Osamu; Ishizaki, Kanjiro; and Ozawa, Seiichi, deceased (by Ozawa, Yoshiko, heiress), to Chichibu Cement Co., Ltd.; and Ozawa Concrete Industry Co., Ltd. Process for producing a high integrity container. 4,687,614, 8-18-87, Cl. 264-40.100.

Suzuki, Osamu; Asada, Eizi; and Fukuoka, Tatsuhiko, to Taiho Kogyo Co., Ltd. Electric conductive and sliding resin material. 4,698,179, 10-6-87, Cl. 252-511.000.

Suzuki, Osamu: *See*—
Kanda, Mamoru; Suzuki, Osamu; Ishiwata, Shousuke; and Hayashi, Mituroh, 4,679,427, Cl. 73-54.000.
Oishi, Kengo; and Suzuki, Osamu, 4,638,393, Cl. 360-132.000.
Oishi, Kengo; and Suzuki, Osamu, 4,669,018, Cl. 360-130.210.
Oishi, Kengo; and Suzuki, Osamu, 4,682,260, Cl. 360-133.000.
Oishi, Kengo; and Suzuki, Osamu, 4,689,702, Cl. 360-132.000.
Oishi, Kengo; and Suzuki, Osamu, 4,701,822, Cl. 360-132.000.

Suzuki, Ryoichi; Taka, Hideo; and Tamura, Shuichi, to Canon Kabushiki Kaisha. Signal processing apparatus for a semiconductor position sensing device. 4,682,872, 7-28-87, Cl. 354-403.000.

Suzuki, Ryoichi: *See*—
Kuwanata, Yuuji; Iino, Tomohiko; Suzuki, Ryoichi; and Haga, Noriyuki, 4,695,481, Cl. 427-96.600.
Shiomi, Yasuhiko; and Suzuki, Ryoichi, 4,693,597, Cl. 356-1.000.
Takigawa, Kazunori; and Suzuki, Ryoichi, 4,685,544, Cl. 188-273.000.
Uchiyama, Takashi; Suzuki, Ryoichi; and Nakamura, Zenzo, 4,669,850, Cl. 354-416.000.

Suzuki, Ryoji: *See*—
Nagai, Kiyotaka; Suzuki, Ryoji; and Yamada, Akitoshi, 4,672,665, Cl. 379-411.000.

Suzuki, Ryozo; Shiraga, Jun; Iwai, Shingo; and Okashiro, Tetuo, to Mitsubishi Denki Kabushiki Kaisha. Fuel supplying pump. 4,682,936, 7-28-87, Cl. 417-366.000.

Suzuki, Ryushi; and Yamaga, Joji, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Apparatus for separating gas from fluid. 4,643,746, 2-17-87, Cl. 55-204.000.

Suzuki, Ryushi; and Yamaga, Joji, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Device for removing bubbles from liquid. 4,662,908, 5-5-87, Cl. 55-204.000.

Suzuki, Saburo: *See*—
Terada, Takami; and Suzuki, Saburo, 4,660,886, Cl. 297-367.000.

Suzuki, Sadahide: *See*—
Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, 4,633,826, Cl. 123-90.310.
Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, 4,637,354, Cl. 123-55.0VF.

Suzuki, Satoru: *See*—
Nasu, Hisanori; Suzuki, Satoru; Yoshida, Hiroaki; Fukuda, Tomoichi; and Soeda, Eiichi, 4,706,192, Cl. 364-413.000.
Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hitoshi; Isogai, Tokio; Saitoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, 4,643,913, Cl. 427-75.000.

Suzuki, Satoshi, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument performing automatic accompaniment on programmable memorized pattern. 4,674,383, 6-23-87, Cl. 84-1.030.

Suzuki, Seigo; Yabe, Yukihiko; and Kawakami, Masumi, to Kabushiki Kaisha Toshiba. Majority circuit comprising binary counter. 4,692,640, 9-8-87, Cl. 307-464.000.

Suzuki, Seigo, to Kabushiki Kaisha Toshiba. Analog signal processing apparatus. 4,692,738, 9-8-87, Cl. 340-347.00C.

Suzuki, Seiji; Nishiyama, Yoshihisa; and Kitagawa, Tohru, to Tokyo Electric Co., Ltd. Multi-range load cell weighing scale. 4,711,314, 12-8-87, Cl. 177-164.000.

Suzuki, Seiko; Sasayama, Takao; and Miki, Masayuki, to Hitachi, Ltd. Air-to-fuel ratio sensor for an automobile. 4,664,773, 5-12-87, Cl. 204-406.000.

Suzuki, Setsuo: *See*—
Nakayama, Syoichi; Inui, Keita; and Suzuki, Setsuo, 4,673,602, Cl. 428-65.000.

Suzuki, Shigeaki: *See*—
Ohnishi, Takashi; Suzuki, Shigeaki; Fujita, Yoshiji; and Nishida, Takashi, 4,659,510, Cl. 252-522.00R.

Suzuki, Shigeharu: *See*—
Narutani, Tetsu; and Suzuki, Shigeharu, 4,690,798, Cl. 420-61.000.

Suzuki, Shigeo, to Nippon Gakki Seizo Kabushiki Kaisha. Sound bar type percussive musical instrument. 4,646,614, 3-3-87, Cl. 84-403.000.

Suzuki, Shigeo; Doi, Yoshiharu; and Soga, Kazuo, to Toa Nenryo Kogyo Kabushiki Kaisha. Catalyst for polymerization of olefins. 4,695,557, 9-22-87, Cl. 502-103.000.

Suzuki, Shigeo: *See*—
Yoshida, Yuji; Suzuki, Shigeo; Nakatani, Kazuo; Mukai, Yuji; Nakazawa, Akira; and Imoto, Takumi, 4,679,403, Cl. 62-114.000.

Suzuki, Shigeru; Ohta, Masaki; and Takenaka, Kenji, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Variable angle wobble plate type compressor which maintains the crankcase pressure at a predetermined value. 4,687,419, 8-18-87, Cl. 417-222.000.

Suzuki, Shigeru, to Ricoh Corporation. Laser beam image printing device with multiple sheet size feeding mechanism. 4,706,099, 11-10-87, Cl. 346-160.000.

Suzuki, Shigeru, to Akashi Seisakusho Ltd. Specimen moving device for electron microscope. 4,710,633, 12-1-87, Cl. 250-442.100.

Suzuki, Shigeru: *See*—
Ichida, Katsumi; Miyano, Hideyo; and Suzuki, Shigeru, 4,669,428, Cl. 123-52.0MB.
Ikeda, Kunihiko; Suzuki, Shigeru; Yokota, Takashi; Shimura, Akira; Kodama, Yutaka; Yamazaki, Shigeru; Niro, Masaichi; and Tomita, Satoru, 4,657,372, Cl. 355-3.00R.
Matsumoto, Susumu; Suzuki, Shigeru; Watanabe, Hisao; and Hanabe, Hiroshi, 4,705,554, Cl. 71-88.000.
Miyano, Hideyo; Kobayashi, Atsushi; Suzuki, Shigeru; and Ichida, Katsumi, 4,664,076, Cl. 123-52.0MB.
Ohdake, Eishu; Oikawa, Tomohiro; Shimizu, Kenichi; Seto, Takashi; Ishikawa, Masahiro; Suzuki, Shigeru; and Tagoku, Izumi, 4,640,611, Cl. 355-77.000.
Ohshima, Kiyoshi; Suzuki, Shigeru; Mashiko, Harumitsu; and Ohdake, Eisyu, 4,707,126, Cl. 355-14.0SH.

Suzuki, Shigeyasu: *See*—
Kaneko, Tomomichi; Suzuki, Shigeyasu; and Arakawa, Shouji, 4,698,981, Cl. 62-180.000.

Suzuki, Shigeyoshi: *See*—
Furukawa, Akira; Senga, Takao; and Suzuki, Shigeyoshi, 4,636,452, Cl. 430-112.000.
Kanada, Eiji; Suzuki, Shigeyoshi; Endo, Kazunaka; and Yamamoto, Kyonosuke, 4,636,066, Cl. 355-77.000.

Suzuki, Shin: *See*—
Sasamoto, Yasuhiko; Atsumi, Takeo; Suzuki, Shin; and Hoshi, Masakazu, 4,666,720, Cl. 426-104.000.

Suzuki, Shingo: *See*—
Yata, Yukio; and Suzuki, Shingo, 4,674,836, Cl. 350-128.000.
Yata, Yukio; and Suzuki, Shingo, 4,708,435, Cl. 350-129.000.

Suzuki, Shinichi; Takenaka, Kenji; and Ohta, Masaki, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Variable displacement compressor with variable angle wobble plate and wobble angle control unit. 4,688,997, 8-25-87, Cl. 417-222.000.

Suzuki, Shinichi; Tokumo, Akio; Kunugi, Yoshiro; and Kato, Masayuki, to Pioneer Electronic Corporation. Automatic sound field correcting system. 4,694,498, 9-15-87, Cl. 381-103.000.

Suzuki, Shinichi; Hara, Masato; Tsuda, Koji; Takasugi, Eiji; Kinba, Toshifumi; and Kaneko, Atsumi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Zero setting device in surveying instrument. 4,702,008, 10-27-87, Cl. 33-1.00T.

Suzuki, Shinichi: *See*—
Inagaki, Mitukane; Ohta, Masaki; Hyodo, Akihiko; Takenaka, Kenji; Mitibata, Takashi; Suzuki, Shinichi; and Kayukawa, Hiroaki, 4,712,982, Cl. 417-222.000.
Kunugi, Yoshiro; Suzuki, Shinichi; and Kato, Masayuki, 4,688,258, Cl. 381-103.000.
Nagai, Tatsuo; Suzuki, Shinichi; and Yamazaki, Hiroshi, 4,708,924, Cl. 430-138.000.
Niiho, Masaaki; Itoh, Kiyoshi; Suzuki, Shinichi; Itagaki, Takuo; and Tsuda, Koji, 4,636,068, Cl. 356-5.000.
Ohta, Masaki; Suzuki, Shinichi; and Takenaka, Kenji, 4,674,957, Cl. 417-222.000.

Takenaka, Kenji; Suzuki, Shinichi; Kayukawa, Hiroaki; and Ohta, Masaki, 4,702,677, Cl. 417-222.000.

Suzuki, Shinji: *See*—
Ito, Yoshikuni; Kanamoto, Jinshu; Murayama, Seiji; and Suzuki, Shinji, 4,666,527, Cl. 127-60.000.

Suzuki, Shintaro: *See*—
Umezawa, Hamao; Suzuki, Shintaro; Ohkuma, Taka'aki; Sato, Fumihiro; and Nakamura, Teruya, 4,710,517, Cl. 514-616.000.

Suzuki, Shizuo: *See*—
Takeuchi, Mamoru; Nemoto, Sadao; Suzuki, Shizuo; and Kawai, Juichiro, 4,697,984, Cl. 415-142.000.
Yamamura, Kazuomi; Ishihara, Hideo; Iwamoto, Yoshinao; Suzuki, Shizuo; Sirasaki, Yuichi; and Asakawa, Kenichi, 4,678,371, Cl. 405-164.000.

Suzuki, Shohei: *See*—
Bannai, Akira; and Suzuki, Shohei, 4,654,782, Cl. 364-200.000.

Suzuki, Shoichi: *See*—
Kato, Yushi; Suzuki, Shoichi; and Inoue, Akira, 4,652,221, Cl. 417-500.000.

Suzuki, Shoji, to Alpine Electronics Inc. Device for controlling pinch roller in cassette tape recorder. 4,694,983, 9-22-87, Cl. 226-181.000.

Suzuki, Shoji, to Alpine Electronics Inc. Protected switch unit for cassette tape recorder. 4,703,138, 10-27-87, Cl. 200-61.58R.

Suzuki, Shouzou, to Kabushiki-Kaishi Tokyo Emix. Bracket for supporting universal arm of dental X-ray apparatus. 4,651,966, 3-24-87, Cl. 248-674.000.

Suzuki, Shuichi: *See*—
Onishi, Yasunobu; Havase, Syuzi; Suzuki, Shuichi; and Wada, Moriyasu, 4,666,951, Cl. 522-8.000.

Suzuki, Shunichi: *See*—
Terada, Kazuo; Kurosawa, Susumu; and Suzuki, Shunichi, 4,706,107, Cl. 357-23.500.

Suzuki, Shuzo; Ogasawara, Ichiro; Yokota, Hiroshi; and Sumida, Shim, to Sumitomo Electric Industries, Ltd.; and Nippon Telegraph & Telephone Public Corporation. Multi core optical fiber. 4,653,852, 3-31-87, Cl. 350-9o.330.

Suzuki, Shuzo: *See*—
Kakii, Toshiaki; Matsuno, Koichiro; Suzuki, Shuzo; Ashiya, Fumihiro; and Ishihara, Koushi, 4,708,433, Cl. 350-96.220.
Nishimura, Masayuki; Suzuki, Shuzo; and Yokoto, Hiroshi, 4,715,695, Cl. 350-96.310.
Sakamoto, Katsuji; Ohta, Akio; Toda, Yuichi; Suzuki, Shuzo; and Ide, Takashi, 4,676,635, Cl. 356-73.100.
Uchioke, Fumikiyo; Ogasawara, Ichiro; and Suzuki, Shuzo, 4,703,998, Cl. 350-96.230.

Suzuki, Sigekazu: *See*—
Kato, Ichiro; and Suzuki, Sigekazu, 4,662,124, Cl. 51-283.00R.

Suzuki, Sigeo: *See*—
Yasuda, Kazuyuki; and Suzuki, Sigeo, 4,703,021, Cl. 501-87.000.

Suzuki, Sobei: *See*—
Nishizawa, Junichi; Suzuki, Sobei; and Tamamushi, Takashige, 4,684,966, Cl. 357-22.000.

Suzuki, Sohbe: *See*—
Yusa, Atsushi; Nishizawa, Jun-ichi; Suzuki, Sohbe; and Tamamushi, Takashige, 4,686,555, Cl. 357-30.000.

Suzuki, Soichi; Aihara, Mitsuo; and Fujii, Mitsuo, to Kabushiki Kaisha Toshiba. IC device and a system for testing the same. 4,691,287, 9-1-87, Cl. 364-490.000.

Suzuki, Sunao, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for measuring quantity of AC electricity. 4,667,198, 5-19-87, Cl. 324-142.000.

Suzuki, Susumu, to Kabushiki Kaisha Toshiba. Color signal processing circuit. 4,661,841, 4-28-87, Cl. 358-27.000.

Suzuki, Susumu: *See*—
Nakagawa, Masaki; and Suzuki, Susumu, 4,644,380, Cl. 358-28.000.

Suzuki, Tadao; Sako, Yoichiro; Furukawa, Shunske; Furuya, Tsuneo; and Baggen, Constant P. M. J., to Sony Corporation. Method and apparatus for transmitting digital data. 4,680,764, 7-14-87, Cl. 371-40.000.

Suzuki, Tadao; Nakamura, Shoichi; Nishioka, Hisao; and Ohkubo, Yutaka, to Sony Corporation. Method and apparatus for recording digitized information on a disc. 4,707,818, 11-17-87, Cl. 369-59.000.

Suzuki, Tadao: *See*—
Abe, Miki; and Suzuki, Tadao, 4,649,372, Cl. 340-347.0NT.
Furukawa, Shunsuke; Suzuki, Tadao; and Monen, Marinus J. B. M., 4,641,295, Cl. 369-32.000.
Kosugi, Seiji; and Suzuki, Tadao, 4,643,393, Cl. 251-129.010.

Suzuki, Tadashi; Koizumi, Hideo; Takeyama, Jun; and Tsukui, Kunitsugu, to Hitachi, Ltd. Shaft assembly and manufacturing process thereof. 4,671,696, 6-9-87, Cl. 403-265.000.

Suzuki, Tadashi; Futami, Toru; and Sakagami, Atsushi, to Nissan Motor Company, Limited. Network system. 4,674,084, 6-16-87, Cl. 370-85.000.

Suzuki, Tadashi, to Canon Kabushiki Kaisha. Image forming system having external signal generating means. 4,682,875, 7-28-87, Cl. 355-3.00R.

Suzuki, Tadashi; Futami, Toru; and Sakagami, Atsushi, to Nissan Motor Company, Limited. Synchronized network system. 4,694,294, 9-15-87, Cl. 340-825.140.

Suzuki, Tadashi; Tomikashi, Minoru; Futami, Toru; and Sakagami, Atsushi, to Nissan Motor Company, Limited. Network system. 4,706,245, 11-10-87, Cl. 370-85.000.

Suzuki, Tadashi; Okada, Kazuyoshi; and Abe, Noriyuki, to Nissan Motor Company, Limited. Network system utilizing an intermediate synchronizations signal and predetermined code string patterns. 4,712,211, 12-8-87, Cl. 370-100.000.

Suzuki, Tadashi: *See*—
Inaba, Mitsuharu; Sekiguchi, Takashi; Yoneyama, Yoshio; and Suzuki, Tadashi, 4,639,182, Cl. 414-543.000.
Oba, Seisuke; Mikami, Tsutomu; Suzuki, Hideyuki; Shimada, Mitsuhiro; and Suzuki, Tadashi, 4,706,141, Cl. 360-96.500.

Suzuki, Taihei: *See*—
Mukaemachi, Takuji; Shirasu, Hirotoshi; and Suzuki, Taihei, 4,663,759, Cl. 370-110.200.

Suzuki, Takaaki: *See*—
Takeshita, Keiji; Hamano, Hideo; Ohshima, Shoichi; Suzuki, Takaaki; and Ida, Shuichiro, 4,674,600, Cl. 184-6.120.

Suzuki, Takahiko: *See*—
Kageyama, Hidehei; and Suzuki, Takahiko, 4,669,904, Cl. 401-115.000.

Suzuki, Takahisa; Kuwahara, Shinichi; and Kawashima, Yoshinori, to Honda Giken Kogyo Kabushiki Kaisha. Motor vehicle with handlebar. 4,712,633, 12-15-87, Cl. 180-149.000.

Suzuki, Takahisa: *See*—
Fujita, Haruyasu; Ogawa, Masao; and Suzuki, Takahisa, 4,685,690, Cl. 280-112.00A.

Suzuki, Takamitsu: *See*—
Ogaki, Hirokazu; Yasutomo, Yuichi; Kato, Yoshibumi; Kato, Tatsuo; and Suzuki, Takamitsu, 4,677,565, Cl. 364-479.000.
Uchiyama, Kazuo; and Suzuki, Takamitsu, 4,643,143, Cl. 123-90.310.

Suzuki, Takanori: *See*—
Endo, Hiroshi; Yagi, Toshio; Tanaka, Masahiro; and Suzuki, Takanori, 4,689,351, Cl. 521-60.000.
Saruhashi, Kazuo; Ara, Masato; Suzuki, Takanori; Saito, Gunji; and Kojima, Atsushi, 4,679,382, Cl. 56-10.100.

Suzuki, Takao; and Shiba, Kenji, to Minolta Camera Kabushiki Kaisha. Planetarium having an auxiliary projector independently rotatable about a star field projector. 4,643,681, 2-17-87, Cl. 434-286.000.

Suzuki, Takao: *See*—
Arakawa, Kazumi; Hirao, Toshiyuki; Sugiura, Kenji; Kuroki, Satoshi; Hiraki, Sei; Suzuki, Takao; and Nakai, Ken, 4,640,336, Cl. 164-440.000.
Takeda, Hiromitsu; Nakahashi, Masako; Shirokane, Makoto; Tsuge, Akihiko; and Suzuki, Takao, 4,685,607, Cl. 228-193.000.

Suzuki, Takashi, to Canon Kabushiki Kaisha. Optical low-pass filter. 4,634,219, 1-6-87, Cl. 350-162.220.

Suzuki, Takashi, to Canon Kabushiki Kaisha. Range finding device with a spatial low-pass filter. 4,641,022, 2-3-87, Cl. 250-204.000.

Suzuki, Takashi, to Nittan Company, Limited. Light-scattering type smoke detector. 4,642,615, 2-10-87, Cl. 340-630.000.

Suzuki, Takashi; Hibino, Kunio; Murai, Mikio; Kawase, Shigeki; Shinohara, Koichi; and Nouchi, Norimoto, to Matsushita Electric Industrial Co., Ltd. Magnetic recording medium. 4,645,703, 2-24-87, Cl. 428-141.000.

Suzuki, Takashi; Odagiri, Masaru; Kai, Yoshiaki; Kitamaki, Hisayo; and Tomago, Akio, to Matsushita Electric Industrial Co., Ltd. Magnetic recording material. 4,647,507, 3-3-87, Cl. 428-421.000.

Suzuki, Takashi; Matsumura, Susumu; and Kitagishi, Nozomu, to Canon Kabushiki Kaisha. Image reading apparatus with an area-type beam splitter. 4,650,988, 3-17-87, Cl. 250-216.000.

Suzuki, Takashi; Matsumura, Susumu; Suzuki, Kenji; and Otaka, Keiji, to Canon Kabushiki Kaisha. Focus detector having first and second non-overlapping sensor series. 4,659,917, 4-21-87, Cl. 250-201.000.

Suzuki, Takashi; and Kasai, Hiroshi, to Yamaha Hatsudoki Kabushiki Kaisha. Shaft drive for balloon tired motorcycle. 4,664,215, 5-12-87, Cl. 180-226.000.

Suzuki, Takashi, to Sharp Kabushiki Kaisha. Electronic clinical thermometer. 4,691,713, 9-8-87, Cl. 128-736.000.

Suzuki, Takashi: *See*—
Iinuma, Hiroshi; Sakaguchi, Shuichi; and Suzuki, Takashi, 4,644,419, Cl. 360-46.000.
Imai, Tetsuya; Fujita, Hiroshi; Koikeda, Minoru; and Suzuki, Takashi, 4,698,449, Cl. 585-469.000.
Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, 4,636,649, Cl. 250-574.000.
Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, 4,638,308, Cl. 340-500.000.
Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, 4,658,243, Cl. 340-505.000.
Matsumura, Susumu; and Suzuki, Takashi, 4,662,716, Cl. 350-169.000.
Miyauchi, Shizuya; Suzuki, Takashi; Minobe, Shunichi; and Soga, Shigeyuki, 4,656,780, Cl. 49-348.000.
Saigo, Hiroshi; and Suzuki, Takashi, 4,699,603, Cl. 446-304.000.
Tanaka, Tomiho; Suzuki, Takashi; and Watashi, Mitsuo, 4,685,341, Cl. 74-15.820.
Yoshida, Hideki; Shinohara, Koichi; and Suzuki, Takashi, 4,673,617, Cl. 428-323.000.

Suzuki, Takatoshi; Takada, Yasuo; Sakakibara, Yuji; Sugiura, Masahiro; Hayashi, Hiroaki; and Kamigaito, Osami, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Molding material and mold. 4,691,756, 9-8-87, Cl. 164-361.000.

Suzuki, Takatoshi: *See*—
Azuma, Hidekazu; Yoshinaka, Ryozi; Tsuruhashi, Takayuki; Hokao, Katsuiku; Watanabe, Kazuki; Ogo, Kazutaka; Suzuki, Takatoshi; and Hayashi, Masahiro, 4,656,868, Cl. 73-587.000.
Matsuyama, Kiyoshi; Suzuki, Takatoshi; and Chigusa, Takeshi, 4,713,444, Cl. 528-502.000.
Ogo, Kazutaka; Hayashi, Masahiro; Suzuki, Takatoshi; Hokao, Katsuiku; Asai, Akio; and Tsuruhashi, Takayuki, 4,709,198, Cl. 318-571.000.

Suzuki, Takaya: *See*—
Kobayashi, Yutaka; and Suzuki, Takaya, 4,693,758, Cl. 437-174.000.

Suzuki, Takayoshi: *See*—
Yamamoto, Fumio; Suzuki, Takayoshi; Ikari, Masahiro; Saito, Susumu; Ohmori, Akira; and Yasuhara, Takashi, 4,684,705, Cl. 526-246.000.

Suzuki, Takehiko; Osaka, Shigemi; and Aikawa, Norikazu, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Micronized zirconia and method for production thereof. 4,664,894, 5-12-87, Cl. 423-265.000.

Suzuki, Takehiko: *See*—
Miyazaki, Makoto; Yomoda, Minoru; and Suzuki, Takehiko, 4,635,373, Cl. 33-180.00R.

Suzuki, Takehiro: *See*—
Katou, Yukio; Suzuki, Takehiro; and Shimada, Susumu, 4,711,316, Cl. 180-168.000.

Suzuki, Takeo, to Alps Electric Co., Ltd. Varactor diode tuner with band switched coils and lines. 4,710,973, 12-1-87, Cl. 455-180.000.

Suzuki, Takeshi, to Tomita Pharmaceutical Corp., Ltd. Method of preparing mixed electrolyte powder for bicarbonate dialysis and powder mixture formed. 4,655,941, 4-7-87, Cl. 252-1.000.

Suzuki, Takeshi; Tominaga, Shigetake; and Nakai, Masanori, to Daikin Kogyo Co., Ltd. Aqueous coating composition of fluorocarbon resin. 4,680,331, 7-14-87, Cl. 524-269.000.

Suzuki, Takeshi, to Nippon Electric Co., Ltd. Mounting structure for electronic apparatus or the like. 4,710,136, 12-1-87, Cl. 439-374.000.

Suzuki, Takeshi, to NEC Corporation. Telephone set structure having a member capable of being inserted in invertible position. 4,713,836, 12-15-87, Cl. 379-58.000.

Suzuki, Takeshi: *See*—
Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, 4,655,973, Cl. 260-404.000.

Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi, 4,709,079, Cl. 560-66.000.

Suzuki, Takumi: *See*—
Matsuzaki, Toshio; Sorimachi, Haruo; Satoh, Kiyoshi; Suzuki, Takumi; and Sugn, Takeshi, 4,689,638, Cl. 346-76.0PH.

Suzuki, Tameyuki; and Kamakura, Takuro, to Shinto Paint Co., Ltd. Method for selectively bonding substrate having fine electroconductive pattern. 4,676,854, 6-30-87, Cl. 156-151.000.

Suzuki, Tameyuki: *See*—
Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji, 4,670,188, Cl. 252-513.000.

Suzuki, Tatsumi, to Iwatsu Electric Co., Ltd. Jitter-free sweep generator for a cathode ray oscilloscope. 4,651,065, 3-17-87, Cl. 315-399.000.

Suzuki, Tatsuo; and Matsumoto, Atsushi, to Terumo Kabushiki Kaisha. Medical instrument. 4,673,393, 6-16-87, Cl. 604-167.000.

Suzuki, Tatsuo, to Terumo Corporation. Puncture needle assembly. 4,682,980, 7-28-87, Cl. 604-122.000.

Suzuki, Tatsuo; and Matsumoto, Atsushi, to Terumo Kabushiki Kaisha. Medical device. 4,682,981, 7-28-87, Cl. 604-158.000.

Suzuki, Tatsuya: *See*—
Mori, Shosuke; Sakurai, Atsushi; Aoki, Satoshi; and Suzuki, Tatsuya, 4,716,526, Cl. 364-200.000.

Suzuki, Teruo: *See*—
Yahagi, Masakichi; Horiuchi, Shoichi; Toyama, Takahumi; Kashiwagi, Akio; Suzuki, Teruo; Igaki, Tetsuo; Horisawa, Kazuyuki; and Shoji, Mituhiro, 4,677,203, Cl. 546-15.000.

Suzuki, Tetsuji; Yoshida, Su...mu; Ogawa, Hiroshi; and Miyazaki, Yasuyuki, to Kabushiki Kaisha Meidensha. Unmanned vehicle control system and method. 4,665,489, 5-12-87, Cl. 364-424.000.

Suzuki, Tetsumi; Murayama, Tetsuo; Ono, Hitoshi; Otsuka, Shigenori; and Nozomi, Mamoru, to Mitsubishi Chemical Industries, Ltd. Crystalline oxytitanium phthalocyanine and photoreceptor for use in electrophotography. 4,664,997, 5-12-87, Cl. 430-58.000.

Suzuki, Tetsuo; and Nishikawa, Sinji, to Fujitsu Limited. Microcomputer unit. 4,667,285, 5-19-87, Cl. 364-200.000.

Suzuki, Tetsuo: *See*—
Ozawa, Masaka...; Ozawa, Kunitaka; Hatanaka, Katsunori; Suzuki, Tetsuo; Mori, Tetsuzo; Shiina, Tadashi; and Ebinuma, Ryuichi, 4,651,173, Cl. 346-136.000.
Yoshimura, Shigeru; Suzuki, Tetsuo; and Takemura, Makoto, 4,692,778, Cl. 346-145.000.

Suzuki, Tetsuro, to Ricoh Company, Ltd. Toner for developing latent electrostatic images, containing charge control agent. 4,634,650, 1-6-87, Cl. 430-110.000.

Suzuki, Tetsuro: *See*—
Yoshikawa, Masao; Kojima, Akio; Suzuki, Tetsuro; and Sasaki, Masaomi, 4,672,149, Cl. 136-263.000.

Suzuki, Tetsushi: *See*—
Ichikawa, Noriyuki; Suzuki, Tetsushi; and Atsumi, Tomiaki, 4,710,152, Cl. 474-166.000.

Suzuki, Tokio: *See*—
Takahashi, Toshiaki; and Suzuki, Tokio, 4,684,928, Cl. 340-521.000.

Suzuki, Tomihiro, to Sumitomo Electric Industries, Ltd. Double Schottky-gate field effect transistor. 4,709,251, 11-24-87, Cl. 357-22.000.

Suzuki, Tomio: *See*—
Saito, Toshio; Yukawa, Kazuo; and Suzuki, Tomio, 4,661,845, Cl. 358-99.000.
Tabata, Shin-ichi; Suzuki, Tomio; Hamamoto, Youichi; Hayakawa, Noboru; and Watanabe, Kaoru, 4,655,925, Cl. 210-605.000.

Suzuki, Tomonari: *See*—
Higashigaki, Yoshiyuki; Yoshimoto, Yoshikazu; Suzuki, Tomonari; Nakajima, Shigeo; and Inoguchi, Toshio, 4,714,639, Cl. 428-36.000.

Suzuki, Tomosaburo, to Kabushiki Kaisha Daisei Kikai. Sprouting vegetable cultivation apparatus. 4,642,939, 2-17-87, Cl. 47-14.000.

Suzuki, Toshikazu: *See*—
Sato, Noritada; Suzuki, Toshikazu; and Seki, Yasukazu, 4,689,649, Cl. 357-29.000.

Suzuki, Toshimichi: *See*—
Yamamoto, Hiraku; Suzuki, Toshimichi; Katayama, Shigeru; Uratsuka, Isao; and Asoshima, Eishi, 4,695,598, Cl. 523-400.000.

Suzuki, Toshimitsu: *See*—
Nogi, Munehiro; Ohashi, Ryutaro; Miyazaki, Koichiro; Tanaka, Takashi; Tamakoshi, Koichiro; Tamano, Yoshiziro; Wakita, Syotaro; and Suzuki, Toshimitsu, 4,641,671, Cl. 134-57.00D.
Shiga, Takuo; Nabeta, Kazuo; Nakano, Hiroyuki; and Suzuki, Toshimitsu, 4,661,519, Cl. 514-547.000.
Yoshida, Eiichi; Aoki, Nobuyoshi; Suzuki, Toshimitsu; Hongo, Akira; Ueda, Hideki; and Nakata, Isse, 4,703,609, Cl. 53-431.000.

Suzuki, Toshio, to Toray Silicone Co., Ltd. Coating material for optical communication glass fibers and fibers made therefrom. 4,642,265, 2-10-87, Cl. 428-375.000.

Suzuki, Toshio; Yoshida, Masayoshi; and Shimizu, Tetsuo, to Pioneer Electronic Corporation. Time axis deviation compensation apparatus. 4,647,984, 3-3-87, Cl. 358-326.000.

Suzuki, Toshio; Saegusa, Takeshi; Takasu, Toshimitsu; Nakayama, Yuji; and Yamaguchi, Yutaka, to Kirin Beer Kabushiki Kaisha. Liquid filling device. 4,665,957, 5-19-87, Cl. 141-39.000.

Suzuki, Toshio; Shirahata, Akihiko; and Muramoto, Naohiro, to Toray Silicone Co., Ltd. Curable organosiloxane compositions. 4,677,161, 6-30-87, Cl. 524-862.000.

Suzuki, Toshio, to Toray Silicone Co., Ltd. Alkenyl organopolysiloxane and curable composition therefrom. 4,683,278, 7-28-87, Cl. 528-32.000.

Suzuki, Toshio; and Yahagi, Kazuyuki, to Kao Corporation. Hair cosmetic composition. 4,711,776, 12-8-87, Cl. 424-70.000.

Suzuki, Toshio: *See*—
Hongu, Tatsuya; Suzuki, Toshio; Ogawa, Yoshihiko; and Itoh, Takeshi, 4,689,357, Cl. 521-176.000.
Mutoh, Nobuyoshi; Sakai, Keijiro; Suzuki, Toshio; Ueda, Akiteru; Nandoh, Kenji; and Okajima, Ikuo, 4,688,162, Cl. 363-80.000.
Ohkuma, Kuniaki; Nakagawa, Reiji; Miyao, Hisao; Yoshimura, Shinichi; Suzuki, Toshio; Hayashi, Toyoaki; Arakawa, Masayasu; and Koizumi, Hideharu, 4,714,397, Cl. 414-222.000.
Sato, Yoshihiko; Ohishi, Fujio; Hongu, Tatsuya; Suzuki, Toshio and Ogawa, Yoshihiko, 4,652,495, Cl. 428-425.500.
Tsukamoto, Teisuke; Morohoshi, Shinichi; Iida, Tetsuo; Kishizawa, Yuji; Kato, Shoichi; Suzuki, Toshio; and Ebihara, Toshio, 4,698,975, Cl. 60-721.000.

Suzuki, Toshiro; and Matsubara, Osamu, to Hitachi, Ltd. Stabilized current source circuit. 4,642,552, 2-10-87, Cl. 323-315.000.

Suzuki, Toshiro; Fujii, Fumiaki; and Yamada, Izuru, to Hitachi, Ltd. Integrated circuit having input and output terminals for testing. 4,707,654, 11-17-87, Cl. 324-158.00R.

Suzuki, Toshiro: *See*—
Takatori, Hiroshi; Suzuki, Toshiro; and Tomooka, Keiji, 4,658,217, Cl. 328-139.000.
Takatori, Hiroshi; Suzuki, Toshiro; Matsubara, Osamu; and Yamada, Izuru, 4,687,998, Cl. 328-58.000.

Suzuki, Toshiyuki, to Casio Computer Co., Ltd. Gear train mechanism stop device of timepiece. 4,636,087, 1-13-87, Cl. 368-185.000.

Suzuki, Toshiyuki; and Nishikawa, Reiji, to Kabushiki Kaisha Toshiba. Magnetic recording medium. 4,649,073, 3-10-87, Cl. 428-212.000.

Suzuki, Toshiyuki; and Nishikawa, Reiji, to Kabushiki Kaisha Toshiba. Magnetic recording medium. 4,652,479, 3-24-87, Cl. 428-64.000.

Suzuki, Toshiyuki; and Okamura, Hiroshi, to Kabushiki Kaisha Toshiba. Magnetic disc apparatus with liner that avoids bent edges of magnetic discs. 4,654,741, 3-31-87, Cl. 360-133.000.

Suzuki, Toshiyuki; and Yoshida, Yuro, to Yamaha Hatsudoki Kabushiki Kaisha. Frame construction for motorcycles. 4,660,854, 4-28-87, Cl. 280-782.000.

Suzuki, Toshiyuki; Tsukada, Akira; and Kai, Masanobu, to Kao Corporation. Cosmetic emulsion and method for making the same. 4,675,179, 6-23-87, Cl. 424-67.000.

Suzuki, Toshiyuki: *See*—
Hata, Takehisa; Kanagawa, Nobuto; Morishita, Takashi; and Suzuki, Toshiyuki, 4,690,816, Cl. 424-456.000.
Sonobe, Yoshiaki; and Suzuki, Toshiyuki, 4,646,168, Cl. 360-18.000.

Suzuki, Tsuguya: *See*—
Kawaguchi, Takeshi; Suzuki, Tsuguya; and Shibata, Katsuhiro, 4,641,731, Cl. 188-218.0XL.

Suzuki, Tsunehiko, to Matsui-Walterschield Ltd. Power transmitting coupling. 4,645,372, 2-24-87, Cl. 403-325.000.

Suzuki, Tsunehiko, to Fuji Jukogyo Kabushiki Kaisha. Balancer structure for three-cylinder engines. 4,658,777, 4-21-87, Cl. 123-192.00B.

Suzuki, Tsunemasa: *See*—
Kurono, Masayasu; Hayashi, Motohide; Suzuki, Tsunemasa; Miura, Kenji; Kumagai, Yoshihiro; Matsumoto, Yukiharu; Miyano, Seiji; and Sumoto, Kunihiro, 4,678,801, Cl. 514-413.000.

Suzuki, Tsuneo, to Suzuki Mechanical Engineering Co., Ltd. Washing apparatus. 4,642,834, 2-17-87, Cl. 15-21.00R.

Suzuki, Tsuneo: *See*—
Kawakami, Chikahisa; and Suzuki, Tsuneo, 4,654,733, Cl. 360-99.000.

Suzuki, Tsutomu, to Mitsubishi Jukogyo Kabushiki Kaisha. Automatic cutting and winding apparatus for a web-like material such as a film. 4,678,133, 7-7-87, Cl. 242-56.00A.

Suzuki, Yasuaki: *See*—
Suzuki, Yasuo; Hirao, Hiroshi; and Suzuki, Yasuaki, 4,653,023, Cl. 365-104.000.

Suzuki, Yasunaga; Matsubara, Toshiaki; and Uragami, Akira, to Hitachi, Ltd. Semiconductor integrated circuit device. 4,710,842, 12-1-87, Cl. 361-88.000.

Suzuki, Yasuo, to Fujitsu Limited. Signal transmission circuit for a storage device. 4,641,284, 2-3-87, Cl. 365-210.000.

Suzuki, Yasuo, to Matsushita Electric Works, Ltd. D.C. brushless motor having wider and narrower pole parts. 4,644,233, 2-17-87, Cl. 318-254.000.

Suzuki, Yasuo, to Omron Tateisi Electronics Co. Information recording system with multiple levels of data access. 4,651,279, 3-17-87, Cl. 364-405.000.

Suzuki, Yasuo; Hirao, Hiroshi; and Suzuki, Yasuaki, to Fujitsu Limited. Plural-bit-per-cell read-only memory. 4,653,023, 3-24-87, Cl. 365-104.000.

Suzuki, Yasuo; and Ando, Yasunori, to Nissin Electric Co., Ltd. Film forming process. 4,683,149, 7-28-87, Cl. 427-38.000.

Suzuki, Yasuo; Kawamoto, Tetsuo; Motohashi, Ryo; Nagai, Masato; Takegawa, Katsumi; and Taniguchi, Naohiro, to Matsushita Electric Works, Ltd. Brushless D.C. motor having alternating wider and narrower pole shoes. 4,704,567, 11-3-87, Cl. 318-254.000.

Suzuki, Yasuo: *See*—
Urata, Chieo; and Suzuki, Yasuo, 4,653,310, Cl. 72-407.000.

Suzuki, Yasuro: *See*—
Saito, Teruo; Asai, Kuniaki; Suzuki, Yasuro; and Kagiya, Kei, 4,640,961, Cl. 525-444.000.

Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, to Teikoku Hormone Mfg. Co., Ltd. Diphenylmethylimine derivatives, their compositions and pharmaceutical uses. 4,673,692, 6-16-87, Cl. 514-583.000.

Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, to Teikoku Hormone Mfg. Co., Ltd. 2-(3,5-dialkyl-4-hydroxyphenyl)indole derivatives. 4,695,581, 9-22-87, Cl. 514-415.000.

Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; Itoh, Hiroshi; and Hara, Kunihiko, to Nippondenso Co., Ltd. Automatic antidazzle semitransparent mirror. 4,655,549, 4-7-87, Cl. 350-331.00R.

Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, to Nippondenso Co., Ltd. Control apparatus for two section, glare shield mirror. 4,697,883, 10-6-87, Cl. 350-331.00R.

Suzuki, Yasutoshi: *See*—
Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,669,827, Cl. 350-338.000.
Fukada, Tsuyoshi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,671,615, Cl. 350-331.00R.
Itoh, Hiroshi; Suzuki, Yasutoshi; Ohmi, Shinya; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,669,825, Cl. 350-332.000.
Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,669,826, Cl. 350-331.00R.
Itoh, Hiroshi; Ohmi, Shinya; Suzuki, Yasutoshi; Fukada, Tsuyoshi; and Hara, Kunihiko, 4,676,601, Cl. 350-331.00R.
Itoh, Hiroshi; Suzuki, Yasutoshi; Fukada, Tsuyoshi; Ohmi, Shinya; and Hara, Kunihiko, 4,687,956, Cl. 307-310.000.
Muramatsu, Hiromochi; Suzuki, Yasutoshi; Itoh, Hiroshi; Ohmi, Shinya; and Hara, Kunihiko, 4,671,617, Cl. 350-335.000.

Suzuki, Yoichi: *See*—
Morizumi, Ryoji; Suzuki, Yoichi; and Ameda, Kazuhiro, 4,638,883, Cl. 180-324.000.
Sasaki, Naoya; Kawauchi, Masataka; Fukudome, Yoshio; Takeda, Fumio; Suzuki, Yoichi; Mirubayashi, Toshio; and Utsumi, Itsunori, 4,653,742, Cl. 271-114.000.
Yuto, Masao; and Suzuki, Yoichi, 4,683,166, Cl. 428-314.800.

Suzuki, Yoji: *See*—
Gimnaga, Akihiro; Koba, Hiroshi; Sakuma, Shin; Kitagawa, Hisashi; Yamada, Akira; and Suzuki, Yoji, 4,687,738, Cl. 435-68.000.
Ichikawa, Yataro; Yoshesato, Eishin; Harada, Toshiaki; Imai, Hiroshi; and Suzuki, Yoji, 4,668,782, Cl. 540-222.000.

Suzuki, Yoshiaki: *See*—
Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, 4,665,017, Cl. 430-569.000.
Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, 4,681,838, Cl. 430-367.000.
Mifune, Hiroyuki; Shishido, Tadao; and Suzuki, Yoshiaki, 4,713,321, Cl. 430-569.000.

Suzuki, Yoshie; Koike, Kiichi; Kadowaki, Minoru; and Yoshinaka, Minoru, to Matsushita Electric Industrial Co., Ltd. Sealed storage battery. 4,659,636, 4-21-87, Cl. 429-54.000.

Suzuki, Yoshie: *See*—
Koike, Kiichi; Suzuki, Yoshie; Yoshinaka, Minoru; Okabe, Mitsuo; and Tanaka, Makoto, 4,664,994, Cl. 429-163.000.

Suzuki, Yoshifumi: *See*—
Takahashi, Toshiro; Tokushima, Tadao; Suzuki, Yoshifumi; and Wakui, Yukio, 4,681,669, Cl. 204-35.100.

Suzuki, Yoshihiro; Satoh, Nobuhiro; Wajima, Motoyo; Narahara, Toshikazu; and Shimazaki, Takeshi, to Hitachi, Ltd. Composite of metal and resin having electrolytically reduced metal layer and process for producing the same. 4,661,417, 4-28-87, Cl. 428-607.000.

Suzuki, Yoshihiro: *See*—
Sasaki, Torahiko; Tange, Kyotchi; Okawa, Masahiro; and Suzuki, Yoshihiro, 4,663,251, Cl. 429-29.000.
Sasaki, Torahiko; Tange, Kyoichi; Okawa, Masahiro; and Suzuki, Yoshihiro, 4,677,039, Cl. 429-14.000.
Sasaki, Torahiko; Sato, Kazuo; Ohkawa, Masahiro; Suzuki, Yoshihiro; Kubota, Masato; Nakao, Hatsuo; and Tange, Kyoichi, 4,696,870, Cl. 429-14.000.

Suzuki, Yoshihumi; Ito, Noritsugu; and Omura, Kazuhiro, to Brother Kogyo Kabushiki Kaisha. Media thickness compensating device for a printer. 4,676,675, 6-30-87, Cl. 400-56.000.

Suzuki, Yoshiji: *See*—
Kinoshita, Katsuyuki; Shinoda, Kazunori; Sugiyama, Masaru; Ooba, Kouichiro; and Suzuki, Yoshiji, 4,677,341, Cl. 315-12.100.
Kinoshita, Katsuyuki; and Suzuki, Yoshiji, 4,698,544, Cl. 313-379.000.

Suzuki, Yoshikazu: *See*—
Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, 4,655,973, Cl. 260-404.000.

Suzuki, Yoshiki; and Yamazaki, Teruhiko, to Mitsubishi Denki Kabushiki Kaisha. Negative type photoresist developing apparatus. 4,688,918, 8-25-87, Cl. 354-325.000.

Suzuki, Yoshiki; Ikura, Hiroshi; Yamashita, Gentaro; and Nagai, Tsuneji, to Teijin Limited. Method of treating an injured part on the oral mucosa and the covering material for use thereof. 4,715,369, 12-29-87, Cl. 128-156.000.

Suzuki, Yoshikuni: *See*—
Takahashi, Toshihiro; Sueda, Noriyoshi; Tsuji, Masahiro; Tahara, Yoshiyuki; Koyama, Hiroyasu; Suzuki, Yoshikuni; Nagase, Masao; and Sugai, Toshiji, 4,659,833, Cl. 546-142.000.

Suzuki, Yoshinori: *See*—
Sakakibara, Yasuhiro; Kobayashi, Isamu; and Suzuki, Yoshinori, 4,701,886, Cl. 365-189.000.

Suzuki, Yoshio, to Honda Giken Kogyo Kabushiki Kaisha. Method of detecting abnormality in a reference crank angle position detection system of an internal combustion engine. 4,664,082, 5-12-87, Cl. 123-414.000.

Suzuki, Yoshio; Sonoda, Hirotetu; and Yabe, Hideo, to Jidosha Kiki Co., Ltd. Control apparatus for power steering system. 4,674,587, 6-23-87, Cl. 180-142.000.

Suzuki, Yoshio; and Yamaguchi, Seiji, to Jidosha Kiki Co., Ltd. Power steering apparatus. 4,678,052, 7-7-87, Cl. 180-143.000.

Suzuki, Yoshio; Ohe, Takeshi; and Koike, Ichiro, to Jidosha Kiki Co., Ltd. Electric power steering apparatus. 4,681,182, 7-21-87, Cl. 180-79.100.

Suzuki, Yoshio; Sonoda, Hirotetu; and Yabe, Hideo, to Jidosha Kiki Co., Ltd. Hydraulic reaction force apparatus for power steering system. 4,681,184, 7-21-87, Cl. 180-141.000.

Suzuki, Yoshio; Yamamoto, Mitsuoki; and Hosomi, Hisashi, to Takenaka Komuten Co., Ltd. Offshore unit structure. 4,692,065, 9-8-87, Cl. 405-211.000.

Suzuki, Yoshio, to Toshiba Kikai Kabushiki Kaisha. Electrostatic chucks. 4,692,836, 9-8-87, Cl. 361-234.000.

Suzuki, Yoshio; Suzuki, Yoshio; Saitoh, Satoshi; Yamamoto, Mituoki; and Hosomi, Hisashi, to Takenaka Komuten Co., Ltd. Gravity type oceanic structure and its stable installation. 4,693,637, 9-15-87, Cl. 405-224.000.

Suzuki, Yoshio, to Tokyo Shibaura Denki Kabushiki Kaisha. Color cathode-ray tube. 4,701,665, 10-20-87, Cl. 313-402.000.

Suzuki, Yoshio: *See*—
Otobe, Yutaka; Suzuki, Yoshio; Kimura, Shigehiro; and Ohsawa, Naoki, 4,696,273, Cl. 123-417.000.
Suzuki, Yoshio; Suzuki, Yoshio; Saitoh, Satoshi; Yamamoto, Mituoki; and Hosomi, Hisashi, 4,693,637, Cl. 405-224.000.

Suzuki, Yoshitaka; Komatsu, Hiroshi; and Kobayashi, Hayahiro, to Honda Giken Kogyo Kabushiki Kaisha. Electrical auxiliary equipment for vehicles with trouble point self-diagnostic function. 4,663,940, 5-12-87, Cl. 62-127.000.

Suzuki, Yoshiyuki, to Canon Kabushiki Kaisha. Image reading apparatus. 4,675,745, 6-23-87, Cl. 358-285.000.

Suzuki, Yoshiyuki: *See*—
Nakao, Shinroku; Saito, Hideo; and Suzuki, Yoshiyuki, 4,660,855, Cl. 280-642.000.

Suzuki, Youji: *See*—
Arisawa, Takashi; Suzuki, Youji; Maruyama, Yoichiro; Kato, Masaaki; and Shiba, Koreyuki, 4,689,128, Cl. 204-157.220.

Suzuki, Yuichi: *See*—
Yokouchi, Kishio; Suzuki, Yuichi; and Niwa, Koichi, 4,704,658, Cl. 361-385.000.

Suzuki, Yuji; and Hattori, Syunsuke, to Kabushiki Kaisha Toshiba. Ink-jet recording apparatus. 4,652,893, 3-24-87, Cl. 346-140.00R.

Suzuki, Yuji: *See*—
Nakano, Jun; Nagahara, Michiko; Hayashida, Mitsuo; Suzuki, Yuji; and Maruyama, Yohichi, 4,652,566, Cl. 514-253.000.
Urano, Satoshi; Aoki, Kei; Ito, Takeyasu; Suzuki, Yuji; and Mizuguchi, Ryuzo, 4,666,993, Cl. 525-328.200.

Suzuki, Yukio; Masuda, Ikuro; Iwamura, Masahiro; Kadono, Shinya; Uragami, Akira; Yoshimura, Masayoshi; and Matsubara, Toshiaki, to Hitachi, Ltd. Level conversion circuitry for a semiconductor integrated circuit utilizing bis CMOS circuit elements. 4,689,503, 8-25-87, Cl. 307-446.000.

Suzuki, Yukio, to U.S. Philips Corporation. Magazine for discs, holders, and combination of a disc-player with such a magazine. 4,691,309, 9-1-87, Cl. 369-38.000.

Suzuki, Yukio: *See*—
Igarashi, Ryuji; and Suzuki, Yukio, 4,673,783, Cl. 219-10.55F.
Ogiue, Katsumi; Suzuki, Yukio; Masuda, Ikuro; Odaka, Masanori; and Uchida, Hideaki, 4,713,796, Cl. 365-189.000.
Uragami, Akira; Suzuki, Yukio; Kadono, Shinji; Iwamura, Masahiro; Masuda, Ikuro; and Yamauchi, Tatsumi, 4,678,943, Cl. 307-473.000.
Uragami, Akira; Suzuki, Yukio; Iwamura, Masahiro; and Masuda, Ikuro, 4,694,203, Cl. 307-446.000.

Suzuki, Yumiko, legal representative: *See*—
Suzuki, Masaki, deceased; and Akashi, Goro, 4,636,898, Cl. 360-122.000.

Suzumura, Koichi: *See*—
Kawai, Motoshi; Yamamoto, Noboru; Mase, Katuhisa; Matsui, Takeshi; Mikino, Tomoatsu; Miyase, Yoshiyuki; Okuda, Ryoichi; and Suzumura, Koichi, 4,649,888, Cl. 123-609.000.

Suzumura, Masanaga: *See*—
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Kumagai, Naotake; and Tatemoto, Minoru, 4,673,193, Cl. 280-707.000.
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,695,074, Cl. 280-707.000.
Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,639,014, Cl. 280-707.000.
Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,640,526, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,669,749, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Takizawa, Shozo; Kumagai, Naotake; and Tatemoto, Minoru, 4,669,750, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,697,237, Cl. 364-424.000.

Suzumura, Nobuo: *See*—
Horiba, Isao; Iwata, Akira; Suzumura, Nobuo; and Matsuo, Hiroshi, 4,672,651, Cl. 378-62.000.

Suzuyama, Hiroshi; and Sakaguchi, Minoru, to Hitachi, Ltd. Connecting system for gas-insulated switchgear apparatus. 4,651,255, 3-17-87, Cl. 361-341.000.

Suzzi, Robert J.: *See*—
Leman, Jean-Luc; and Suzzi, Robert J., 4,652,210, Cl. 416-140.000.

Svab, Eugen, to Ford Motor Company. Continuously variable transmission. 4,649,773, 3-17-87, Cl. 74-730.000.

Svadjian, Edward; and Goldiner, Paul L., to Albert Einstein College of Medicine of Yeshiva University. Double-lumen tube adaptor. 4,674,496, 6-23-87, Cl. 128-207.160.

Svagr, Alexandr, to SMS Schloemann-Siemag AG. Roll stand, with traveling carriage containing the set of rolls which can be run out of and back into said stand transversely to the direction of rolling. 4,686,845, 8-18-87, Cl. 72-238.000.

Svagr, Alexandr: *See*—
Feldmann, Hugo; Svagr, Alexandr; and Hartmann, Hans-Heinrich, 4,653,304, Cl. 72-239.000.

Svahn, Bror G. K.: *See*—
Isaksson, Karl B.; and Svahn, Bror G. K., 4,712,952, Cl. 408-211.000.

Svanda, Jacques: *See*—
Paly, Rene; and Svanda, Jacques, 4,677,564, Cl. 364-468.000.

Svard, Rune L., to Obbola Linerboard Aktiebolag. Device at incinerator. 4,667,606, 5-26-87, Cl. 110-110.000.

Svarrer, Lauge, to A/S Niro Atomizer. Atomizer wheel with steel bushings. 4,684,065, 8-4-87, Cl. 239-224.000.

Svatos, Joseph D. Roiling mill cooling system. 4,706,480, 11-17-87, Cl. 72-17.000.

Svecia Antiqua SA: *See*—
Nilsson, Ingvar, 4,669,644, Cl. 225-3.000.

Svecia Silkscreen Maskiner AB: *See*—
Ericsson, Sylve J. D.; and Lindstroin, Nils A. E., 4,669,377, Cl. 101-114.000.
Ericsson, Sylve J. D., 4,715,278, Cl. 101-123.000.

Svedberg, Per, to ASEA Aktiebolag. CMOS overvoltage protection circuit utilizing thyristor and majority carrier injecting anti-parallel diode. 4,694,315, 9-15-87, Cl. 357-23.130.

Sveen, Dagfinn, to Norsk Hydro a.s. Fixed marine steel structure and procedure for assembly of the structure. 4,669,917, 6-2-87, Cl. 405-227.000.

Svendsen, Bent: *See*—
Maimann, Mogens; and Svendsen, Bent, 4,635,041, Cl. 340-572.000.

Svendsen, John M.: *See*—
Petersen, Walter J.; Svendsen, John M.; and Morand, Verne J., 4,636,617, Cl. 219-375.000.
Petersen, Walter J.; and Svendsen, John M., 4,683,370, Cl. 219-370.000.

Svendsen, Robert: *See*—
Geller, Edward; Kirby, Mike; Mercer, John; O'Hanlon, Tom; Reichman, Jim; Theimer, Ken; and Svendsen, Robert, 4,674,579, Cl. 175-45.000.

Svengren, Anders G.; and Ganrot, Bertil A., to Nestec S.A. Preparation of a rolled pastry product. 4,640,670, 2-3-87, Cl. 425-142.000.

Svengren, Anders G., to Nestec S.A. Method and apparatus for extruding and cutting a food material. 4,659,580, 4-21-87, Cl. 426-516.000.

Svenka, Peter: *See*—
Pav, Josef; Rauf, Richard; Svenka, Peter; and Wenzel, Reinhard, 4,639,346, Cl. 264-280.000.
Pav, Josef; Wenzel, Reinhard; Svenka, Peter; and Rauf, Richard, 4,685,390, Cl. 100-168.000.

Svensk Industrigravyr AB: *See*—
Danestad, Carl-Johan, 4,672,019, Cl. 430-323.000.

Svenska Rotor Maskiner Aktiebolag: *See*—
Fetzer, Wolfgang, 4,678,643, Cl. 422-175.000.

Svenska Sockerfabriks AB: *See*—
Dahmen, Jan; Frejd, Torbjorn; Magnusson, Goran; and Noori, Ghazi, 4,675,392, Cl. 536-17.600.
Glifberg, Nils B.; and Bengtsson, Wilhelm, 4,633,956, Cl. 171-25.000.
Kalleaius, Gunilla P.; Lundblad, Karl A.; Mollby, Nils R.; Svensson, Stefan B.; and Winberg, Jan, 4,657,849, Cl. 435-7.003.

Svenska Traforskningsinstitutet: *See*—
Andersson, Susanne; Gustafsson, Jan-Erik; Herngren, Torbjorn; Carlsson, Staffan; and Hage, Gunnar, 4,683,841, Cl. 122-22.000.
Herngren, Torbjorn; and Lofthus, Jon, 4,690,634, Cl. 431-8.000.
Rydefalk, Staffan; and Einarsson, Jens, 4,689,988, Cl. 73-61.00R.
Strom, Valter E.; Johansson, Bo-Lennart I.; Karlsson, Hakan T.; and Ostman, Thomas, 4,655,093, Cl. 73-862.410.

Svenson, Lars-Gote: *See*—
Nordqvist, Glenn O.; and Svenson, Lars-Gote, 4,642,453, Cl. 250-214.00A.

Svenson, Richard N.; Hicks, Thomas S.; and Good, Thomas N., to Burroughs Corporation. On and under counter housing for electrical components. 4,669,029, 5-26-87, Cl. 361-392.000.

Svensson, A. Pedar: *See*—
Wallin, P. O. Thomas; Warell, Bengt H.; Svensson, A. Pedar; Lundstrom, Kurt A.; and Johansson, Lars A., 4,711,184, Cl. 108-144.000.

Svensson, Ake P.: *See*—
Wallin, Per Olov T.; Warell, Bengt H.; Svensson, Ake P.; Lundstrom, Kurt A.; and Johansson, Lars A., 4,714,025, Cl. 108-20.000.

Svensson, Assar; and Granlund, Dan, to Skega Aktiebolag. Vehicle track. 4,714,302, 12-22-87, Cl. 305-35.0EB.

Svensson, Bengt: *See*—
Andersson, Uno; and Svensson, Bengt, 4,645,014, Cl. 173-49.000.

Svensson, Bolennart A.: *See*—
Palmqvist, Lars I.; and Svensson, Bolennart A., 4,685,189, Cl. 29-450.000.

Svensson, Eric: *See*—
Callgren, Bo; and Svensson, Eric, 4,657,567, Cl. 55-109.000.

Svensson, Everth, to Schaktfirma Broderna Svensson AB. Arrangement for an axle and a method of mounting a bearing on the axle. 4,634,299, 1-6-87, Cl. 384-271.000.

Svensson, Hakan, to Aktiebolaget Bofors. Hatch cover for a combat vehicle. 4,646,616, 3-3-87, Cl. 89-36.140.

Svensson, Heino: *See*—
Peemoller, Horst; and Svensson, Heino, 4,697,049, Cl. 178-18.000.

Svensson, Ingemar. Influencing arrangement with telescopically variable length. 4,651,581, 3-24-87, Cl. 74-89.150.

Svensson, Kennet, to AB Siwertell. Loading device for a belt conveyor. 4,702,367, 10-27-87, Cl. 198-550.900.

Svensson, Klas G.: *See*—
Lobell, Hans; Svensson, Klas G.; Gladh, Goran; and Hoglander, Bjorn, 4,637,213, Cl. 60-685.000.

Svensson, Lars-Erik; and Thornblad, Ove, to Hoganas AB. Inhomogeneous sintered body. 4,659,547, 4-21-87, Cl. 419-6.000.

Svensson, Leif; Nyqvist, Jan-Olof; and Westling, Lars, to Aktiebolaget Bofors. Crystallization method for HMX and RDX. 4,638,065, 1-20-87, Cl. 544-196.000.

Svensson, Leif: *See*—
Schmid, Hermann; Sjoberg, Per; and Svensson, Leif, 4,706,567, Cl. 102-318.000.

Svensson, Sigfrid: *See*—
Mardh, Per A.; and Svensson, Sigfrid, 4,665,060, Cl. 514-61.000.

Svensson, Stefan B.: *See*—
Kallenius, Gunilla P.; Lundblad, Karl A.; Mollby, Nils R.; Svensson, Stefan B.; and Winberg, Jan, 4,657,849, Cl. 435-7.000.

Svensson, Sven G.: *See*—
Bjork, Jan; and Svensson, Sven G., 4,708,062, Cl. 102-420.000.

Svensson, Sven H., to Alfa-Laval AB. Method and apparatus for weighing and mixing powder and liquid. 4,660,990, 4-28-87, Cl. 366-348.000.

Svensson, Tommy E.: *See*—
Christopherson, Kjell H.; Odelius, Tomas; Rosemeier, Friedrich; Stenberg, Kaj O.; Svensson, Tommy E.; and Killmaier, Horst, 4,636,204, Cl. 604-283.000.

Svensson, Torsten, to Termofrost Sweden AB. Door. 4,637,167, 1-20-87, Cl. 49-386.000.

Sverdlin, Anatoly. Portable boring machine. 4,652,186, 3-24-87, Cl. 408-81.000.

Sverdlov, Evgeny D.: *See*—
Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Gregory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.

Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.

Svesson, Bengt: *See*—
Larsson, Lars; and Svesson, Bengt, 4,687,197, Cl. 272-72.000.

Svetlik, Harvey E.; and Wood, Roy F., to Phillips Petroleum Company. Pipeline lining. 4,691,740, 9-8-87, Cl. 138-109.000.

Svilans, Mikelis N., to Northern Telecom Limited. Surface-emitting light emitting device. 4,660,207, 4-21-87, Cl. 372-45.000.

Svilans, Mikelis N., to Northern Telecom Limited. Bragg distributed feedback surface emitting laser. 4,675,876, 6-23-87, Cl. 372-96.000.

Svilans, Mikelis N., to Northern Telecom Limited. Bragg distributed feedback surface emitting laser. 4,675,877, 6-23-87, Cl. 372-96.000.

Svirklys, Ferdinand M.; and Lancucki, Peter G., to Dominion Al-Chrome Corporation Ltd. Flotation system. 4,655,156, 4-7-87, Cl. 114-266.000.

Svitila, Barbara: *See*—
Magid, David J.; Svitila, Barbara; and Kaltriess, William, 4,679,706, Cl. 222-130.000.

Svoboda, Daniel; Hordinski, Steven; Severns, Dale R.; and Hooker, Howard W., to Union Oil Company of California. Apparatus for introducing solids into a solids upflow vessel. 4,634,330, 1-6-87, Cl. 414-198.000.

Svoboda, Jaroslav: *See*—
Krouglicof, Nicholas; McKinnon, Gordon M.; and Svoboda, Jaroslav, 4,649,504, Cl. 364-559.000.

Svoboda, Johann. Cabinet with roll front to be opened in the upward direction. 4,634,194, 1-6-87, Cl. 312-297.000.

Svyatsky, Eduard; and Rabindran, K. George, to Bell & Howell Company. Rotatable print mechanism for printing on front or back of media. 4,693,465, 9-15-87, Cl. 271-274.000.

SW Industries, Inc.: *See*—
Gallant, James O., 4,706,349, Cl. 26-104.000.
Hamed, Parviz, 4,689,273, Cl. 428-462.000.
Maddox, Edward L.; and Pitts, Thomas E., 4,656,360, Cl. 250-571.000.

Swab, John M.: *See*—
Wang, Samuel C.; and Swab, John M., 4,652,766, Cl. 250-578.000.
Wang, Samuel C.; Swab, John M.; Winn, Michael L.; and Gibbons, Martin D., 4,682,236, Cl. 358-213.260.

Swadell, Robert A. Self-equalizing lifting trailer. 4,637,770, 1-20-87, Cl. 414-495.000.

Swadley, Gerald L., to Sundstrand Corporation. Turbine wheel containment. 4,639,188, 1-27-87, Cl. 415-9.000.

Swaffield, John D., to Alden Research Foundation. High voltage plug and receptacle. 4,684,189, 8-4-87, Cl. 439-587.000.

Swagelok Company: *See*—
Medvick, Richard J.; Weber, Richard C., Jr.; Wagner, Ross L.; and Brand, Edward M., 4,637,432, Cl. 137-614.030.
Medvick, Richard J.; and Wagner, Ross L., 4,665,943, Cl. 137-543.170.
Medvick, Richard J.; and Wagner, Ross L., 4,671,540, Cl. 285-87.000.
Medvick, Richard J.; Weber, Richard C., Jr.; Wagner, Ross L.; and Brand, Edward M., 4,685,490, Cl. 137-614.030.

Swager, Tim M.: *See*—
Grubbs, Robert H.; and Swager, Tim M., 4,645,814, Cl. 526-256.000.

Swailes, John T.: *See*—
Crowell, Jonathan C.; and Swailes, John T., 4,646,436, Cl. 29-850.000.

Swain, Allan L.: *See*—
Thorndyke, Terence; and Swain, Allan L., 4,689,776, Cl. 367-139.000.

Swain, Danny C., to Advanced Control Engineering. Filter pump head assembly. 4,690,621, 9-1-87, Cl. 417-313.000.

Swain, David M.; and Tansey, Richard J., to Rockwell International Corporation. Apparatus and method for the recording and readout of multiple exposure holograms. 4,707,135, 11-17-87, Cl. 356-347.000.

Swain, Henry L., to Illinois Tool Works Inc. Releasable stop gate device. 4,685,562, 8-11-87, Cl. 206-328.000.

Swain, Stephen C., to International Positioning Systems, Ltd. Method for supporting and positioning the human anatomy. 4,658,807, 4-21-87, Cl. 128-78.000.

Swaine, Robert L., Jr.: *See*—
Kupper, Philip L.; Moore, Katherine L.; and Swaine, Robert L., Jr., 4,690,827, Cl. 426-548.000.

Swak, Inc.: *See*—
Kastle, George E.; Kastle, Jennie R.; Stinedurf, Constance V.; Wilson, James E.; and Wilson, Barbara M., 4,705,276, Cl. 273-309.000.

Swale, James F.: *See*—
Hubert, Carl H.; Miller, Paul A.; Furia, Thomas J.; Muhlfelder, Ludwig; Schmidt, George E., Jr.; and Swale, James F., 4,657,210, Cl. 244-158.00R.

Swales, Michael G.: *See*—
Knapp, John F.; Gruber, Robert J.; Floyd, Lawrence, Jr.; Bolte, Steven B.; and Swales, Michael G., 4,695,524, Cl. 430-32.000.

Swallert, Sven A., to Bergmann, Peter. Inflating device for use single-handed. 4,662,412, 5-5-87, Cl. 141-284.000.

Swallow, Nancy A.: *See*—
Coleman, Edward C.; Wagner, Jeffrey D.; Ballard, Donna J.; Stone, Catharine E.; Swallow, Nancy A.; and Carey, Nancy L., 4,640,837, Cl. 426-94.000.

Swaminathan, Balaji: *See*—
Sander, Craig S.; and Swaminathan, Balaji, 4,714,686, Cl. 437-195.000.

Swan, Alan J., to NAPCO Scientific Company. Humidification system. 4,668,854, 5-26-87, Cl. 219-273.000.

Swan, Dale G.; and Hansen, Jerry C., to Henkel Corporation. Poly(ester-amide) compositions. 4,656,242, 4-7-87, Cl. 528-295.300.

Swan, George A.: *See*—
Bailey, George W.; and Swan, George A., 4,634,515, Cl. 208-91.000.

Swan, Jack C., Jr.; and Poggioli, Paolo, to Cobe Laboratories, Inc. Dry chamber. 4,681,606, 7-21-87, Cl. 55-193.000.

Swan, Jack C., Jr.: *See*—
Heath, Gary B.; Palsulich, William G.; Manica, Keith J.; and Swan, Jack C., Jr., 4,666,598, Cl. 210-239.000.

Swan, Jye P.; Weinerman, Lee S.; and Mayo, Steven A., to Eastern Company, The. Rotary handle operated door lock. 4,706,478, 11-17-87, Cl. 70-208.000.

Swan, Leo, to Equipment Development Company, Inc. Diamond grinder assembly and snap-fit mounting means for scarifier case. 4,702,223, 10-27-87, Cl. 125-3.000.

Swan, Leo, to Equipment Development Company, Inc. Drum and cutter assembly for a planing machine. 4,714,294, 12-22-87, Cl. 299-39.000.

Swan, Timothy: *See*—
Wood, Christopher J.; Bradbury, David; Swan, Timothy; Segal, Michael G.; and Sellers, Robin M., 4,705,573, Cl. 134-3.000.

Swanberg, Melvin E., to Xerox Corporation. Temporal pixel clock synchronization system. 4,635,000, 1-6-87, Cl. 331-10.000.

Swanberg, Melvin E., to Xerox Corporation. Spatial pixel clock synchronization system. 4,663,523, 5-5-87, Cl. 250-235.000.

Swanberg, Melvin E., to Xerox Corporation. Pixel placement sensing arrangement using split detecting elements. 4,694,156, 9-15-87, Cl. 250-214.0RC.

Swanborn, Johannes C., to Glasfabriek Sas van Gent B.V. Method and device for coating a frontage part, or building, with glass sheets. 4,665,662, 5-19-87, Cl. 52-235.000.

Swander, Robert E.: *See*—
Bryant, Ronald O.; Millen, William L.; and Swander, Robert E., 4,655,230, Cl. 131-343.000.

Swango, Larry J.: *See*—
Worley, Shelby D.; and Swango, Larry J., 4,659,484, Cl. 210-755.000.

Swanhart, William G., Jr.: *See*—
Leusner, Steven J.; Raphael, Barbara C.; and Swanhart, William G., Jr., 4,696,826, Cl. 426-565.000.

Swank, Edgar W., to International Business Machines Corporation. Method for communicating changes made to text form a text processor to a remote host. 4,641,274, 2-3-87, Cl. 364-900.000.

Swann, David J., to Cherlyn Electronics Limited. Mixing of printing inks. 4,656,600, 4-7-87, Cl. 364-567.000.

Swann, Karl W.; and Cosman, Eric R. Adjustable intracranial pressure measuring screw. 4,646,752, 3-3-87, Cl. 128-748.000.

Swann, Lynn J.: *See*—
Wedertz, Larry D.; and Swann, Lynn J., 4,708,304, Cl. 244-3.280.

Swann, Peter R.; and Kraus, Bernd, to Gatan Inc. Anti-drift device for side entry electron microscope specimen holders. 4,703,181, 10-27-87, Cl. 250-442.100.

Swansen, James E., to United States of America, Energy. Fast counting electronics for neutron coincidence counting. 4,642,466, 2-10-87, Cl. 250-392.000.

Swansiger, William A., to United States of America, Energy. Recovery of tritium from tritiated molecules. 4,657,747, 4-14-87, Cl. 423-249.000.

Swanson, Alfred B. Wrist implant. 4,645,505, 2-24-87, Cl. 623-21.000.

Swanson, Arthur P. Golf club irons. 4,671,513, 6-9-87, Cl. 273-172.000.

Swanson Brothers, Inc.: *See*—
Swanson, Elrod H., 4,712,833, Cl. 297-219.000.

Swanson, Carl A. Reversible drill and drive tool holder. 4,676,703, 6-30-87, Cl. 408-239.00R.

Swanson, Chester, Jr. Automatic bolt lock. 4,699,406, 10-13-87, Cl. 292-175.000.

Swanson, Craig A.: *See*—
Lents, Charles M.; and Swanson, Craig A., 4,676,405, Cl. 222-108.000.

Swanson, Dail L.: *See*—
Hammer, Edward F.; Lemmers, Eugene; and Swanson, Dail L., 4,644,227, Cl. 315-96.000.

Swanson, Edward A.: *See*—
Reed, Charles C.; Cooley, Denton A.; Crane, Terry N.; Swanson, Edward A.; Oscarsson, Rolf A.; Liebmann, Vern L.; and Co, Dan L., 4,637,917, Cl. 422-46.000.

Swanson, Elrod H., to Swanson Brothers, Inc. Seat cushion for preventing slouching of an infant or weakened adult. 4,712,833, 12-15-87, Cl. 297-219.000.

Swanson, Erick C., to Keeler, Brad; and Swanson, Erick C. Fish farming system and method. 4,669,420, 6-2-87, Cl. 119-3.000.

Swanson, Gary J.: *See*—
Veldkamp, Wilfrid B.; Leger, James R.; and Swanson, Gary J., 4,649,351, Cl. 330-4.300.

Swanson, Gary L.: *See*—
James, Steven P.; Karr, Roger W.; and Swanson, Gary L., 4,697,572, Cl. 126-343.50R.

Swanson, Glen E.: *See*—
Swanson, Mark E.; and Swanson, Glen E., 4,648,644, Cl. 293-118.000.

Swanson, Hilmer I., to Harris Corporation. RF splitter circuit. 4,680,559, 7-14-87, Cl. 333-100.000.

Swanson, Lynwood W.: *See*—
Clark, William M., Jr.; Utlaut, Mark W.; Wysocki, Joseph A.; Stozek, Edmund K.; Szklarz, Eugene G.; Behrens, Robert G.; Swanson, Lynwood W.; and Bell, Anthony E., 4,670,685, Cl. 313-230.000.

Swanson, Mark E.; and Swanson, Glen E. Automobile protection device. 4,648,644, 3-10-87, Cl. 293-118.000.

Swanson, Mark G. Adjustable and removable vice stand assembly for motor vehicle. 4,705,254, 11-10-87, Cl. 248-287.000.

Swanson, Ralph R.: *See*—
Palazzolo, Faro D.; Drake, Brian L.; and Swanson, Ralph R., 4,683,801, Cl. 89-40.120.

Swanson, Richard A. Garment with side-accessible pocket structures. 4,651,348, 3-24-87, Cl. 2-93.000.

Swanson, Richard A. Pack vest. 4,669,127, 6-2-87, Cl. 2-46.000.

Swanson, Robert E. Patient controllable traction device. 4,674,485, 6-23-87, Cl. 128-75.000.

Swanson, Ronald R.: *See*—
Tuominen, Francis W.; Swanson, Ronald R.; Mattison, Phillip L.; MacKay, Kenneth D.; and Glorvigen, Bradley W., 4,661,606, Cl. 548-497.000.

Swanson, Roy T., to S&C Electric Company. High voltage interrupting switch with improved contact connection arrangement; and method. 4,691,085, 9-1-87, Cl. 200-151.000.

Swanson, Roy T., to S&C Electric Company. Switch for a high-voltage interrupting module. 4,692,577, 9-8-87, Cl. 200-151.000.

Swanson, Roy T.; Chahala, Leonard V.; and Jackson, Hiram S., to S&C Electric Company. Interrupting device with improved current-limiting arrangement. 4,692,734, 9-8-87, Cl. 337-162.000.

Swanson, Scott C., to Sangamo Weston, Inc. Method of and system for accumulating verifiable energy demand data from remote electricity meters. 4,639,728, 1-27-87, Cl. 340-870.030.

Swanson, Scott C., to Sangamo Weston, Inc. Method of and system for accumulating verifiable energy demand data from remote electricity meters. 4,682,169, 7-21-87, Cl. 379-104.000.

Swanson, Scott C., to Sangamo Weston, Inc. System for accumulating verifiable energy demand data from remote electricity meters. 4,697,180, 9-29-87, Cl. 340-870.020.

Swanson, Scott C., to Sangamo Weston, Inc. System for accumulating verifiable energy demand data from remote electricity meters. 4,697,181, 9-29-87, Cl. 340-870.020.

Swanson, Scott C., to Sangamo Weston, Inc. Method of and system for accumulating verifiable energy demand data from remote electricity meters. 4,697,182, 9-29-87, Cl. 340-870.020.

Swanson, Steve E.: *See*—
Shank, Jeffrey B.; Swanson, Steve E.; and Opdahl, Barry J., 4,691,985, Cl. 350-96.180.

Swanson, Steven E.: *See*—
Shank, Jeffrey B.; Swanson, Steven E.; and Opdahl, Barry J., 4,711,518, Cl. 350-96.200.

Swanson, Vernon F., to Western States Minerals Corp. Fluidized bed apparatus. 4,648,969, 3-10-87, Cl. 210-237.000.

Swanson, Wesley S.: *See*—
Kolze, Lawrence A.; Fies, James M.; and Swanson, Wesley S., 4,697,608, Cl. 137-1.000.

Swanson, Wilbur W.: *See*—
Cameron, Thomas B.; Swanson, Wilbur W.; Tartaglia, John M.; and Cox, Thomas B., 4,713,111, Cl. 75-68.00R.

Swanson, William M.: *See*—
Wyndham, Ronald; Chaplin, Gervaise M.; and Swanson, William M., 4,695,436, Cl. 423-135.000.

Swanstrom, Carl P.: *See*—
Fochtman, Edward G.; and Swanstrom, Carl P., 4,697,457, Cl. 73-820.000.

Swanstrom, Kenneth A., to Penn Engineering & Manufacturing Corp. Press having a programmable ram with sensing means. 4,676,471, 6-30-87, Cl. 227-8.000.

Swap, Alfred G.: *See*—
Bruser, Lewis; and Swap, Alfred G., 4,688,969, Cl. 405-303.000.

Swapp, Mavin: *See*—
Peterson, John L.; and Swapp, Mavin, 4,694,242, Cl. 324-73.00R.

Swapp, Mavin C.; and Frisbie, Milo W., to Motorola Inc. Cap for integrated circuit sleeve. 4,655,364, 4-7-87, Cl. 220-307.000.

Swapp, Mavin C.; and Frisbie, Milo W., to Motorola Inc. Integrated circuit sleeve handler. 4,660,710, 4-28-87, Cl. 198-397.000.

Swapp, Mavin C.; and Frisbie, Milo W., to Motorola Inc. Transport mechanism for an automated integrated circuit handler. 4,674,625, 6-23-87, Cl. 198-803.010.

Swapp, Mavin C.; and Frisbie, Milo W., to Motorola Inc. Article ejector/sorter for an automated article handling system. 4,676,359, 6-30-87, Cl. 198-372.000.

Swapp, Mavin C.; and Beaty, David W., to Telonics, Inc. System and method for automatic remote activation of an earth-based satellite transmitter. 4,704,735, 11-3-87, Cl. 455-68.000.

Swapp, Mavin C.; and Frisbie, Milo W., to Motorola, Inc. Input buffer and article injector mechanism for an automated article handler. 4,709,801, 12-1-87, Cl. 198-464.200.

Swarbrick, Alan. Thermoelectric generator for engine exhaust. 4,673,863, 6-16-87, Cl. 322-2.00R.

Swaringen, Roy A., Jr.: *See*—
El-Sayad, Hassan A.; Swaringen, Roy A., Jr.; and Yeowell, David A., 4,701,460, Cl. 514-308.000.

Swarr, Thomas E.; Nickols, Richard C.; and Krasij, Myron, to United States of America, Energy. Method of preparing thin porous sheets of ceramic material. 4,652,411, 3-24-87, Cl. 264-43.000.

Swarr, Thomas E.; and Trocciola, John C., to International Fuel Cells Corporation. Molten carbonate cathodes and method of fabricating. 4,708,917, 11-24-87, Cl. 429-40.000.

Swarr, Thomas E.; and Wnuck, Wayne G., to United States of America, Energy. Method of preparing a dimensionally stable electrode for use in a MCFC. 4,714,586, 12-22-87, Cl. 419-2.000.

Swart, Maarten E., to Revalidatie Institut Muiderpoort. Articulated bed with cellular air cushion mattress. 4,686,722, 8-18-87, Cl. 5-453.000.

Swarte, Petrus A., to U.S. Philips Corporation. Electro-acoustic system having a variable reflection/absorption characteristic. 4,712,247, 12-8-87, Cl. 381-96.000.

Swarthoff, Ton: *See*—
Thom, David; Swarthoff, Ton; and Maat, Jan, 4,707,291, Cl. 252-174.120.

Swartley, Donald M.: *See*—
Trinh, Toan; Wahl, Errol H.; Swartley, Donald M.; and Hemingway, Ronald L., 4,661,269, Cl. 252-8.800.

Swartling, Lennart G., to Du Pont de Nemours, E. I., and Company. Hopper mounting arrangement for an automatic tonning apparatus. 4,634,025, 1-6-87, Cl. 222-161.000.

Swartout, Willson C. Patient position monitoring system. 4,638,307, 1-20-87, Cl. 340-666.000.

Swartout, Wilson C. Passive automobile seat belt reminding device. 4,681,345, 7-21-87, Cl. 280-801.000.

Swarts, Richard F.; Moffatt, E. Marston; and Lopiccolo, Mario T., to United Technologies Corporation. Dual laser beam brazing of fine wires. 4,714,815, 12-22-87, Cl. 219-121.01.C.

Swarts, Richard E.: *See*—
Fournier, Joseph T., Jr.; and Swarts, Richard E., 4,703,287, Cl. 332-7.510.
McBrien, Gregory J.; and Swarts, Richard E., 4,661,753, Cl. 318-689.000.
Moffatt, E. Marston; and Swarts, Richard E., 4,660,417, Cl. 73-505.000.

Swartwout, Richard J., to Dunham-Bush, Inc. Electric motor backstopping device. 4,647,801, 3-3-87, Cl. 310-41.000.

Swartz, Gary D. Clip for holding and spacing siding panels. 4,698,942, 10-13-87, Cl. 52-99.000.

Swartz, George A.; and Benyon, Carl W., Jr., to RCA Corporation. Method for fabricating a radiation hardened oxide having structural damage. 4,634,473, 1-6-87, Cl. 148-1.500.

Swartz, George A., to RCA Corporation. Method for fabricating a radiation hardened oxide having two portions. 4,675,978, 6-30-87, Cl. 29-571.000.

Swartz, Harold L.; and Heidel, Jeffrey C., to Sperry Corporation. Differential capacitance detector. 4,642,555, 2-10-87, Cl. 324-60.00C.

Swartz, Harold L.: *See*—
Anderson, Jane E.; Swartz, Harold L.; and DiMarco, Mario, 4,644,662, Cl. 33-366.000.

Swartz, James R., to Sears, Roebuck and Co. Binocular focusing mechanism. 4,659,194, 4-21-87, Cl. 350-552.000.

Swartz, Jerome: *See*—
Shepard, Howard M.; Barkan, Edward D.; and Swartz, Jerome, 4,673,805, Cl. 235-472.000.

Swartz, John C.: *See*—
Atherton, Charles G.; and Swartz, John C., 4,649,304, Cl. 310-71.000.
Atherton, Charles G.; and Swartz, John C., 4,656,378, Cl. 310-71.000.

Swartz, Louis D.: *See*—
Catchpole, Clive; Yaniv, Zvi; Cannella, Vincent D.; Keens, John; and Swartz, Louis D., 4,675,739, Cl. 358-213.110.
Kitamura, Koichi; Swartz, Louis D.; Catchpole, Clive; and Yaniv, Zvi, 4,714,836, Cl. 250-578.000.

Swartz, Mark E.: *See*—
Mussler, James M.; and Swartz, Mark E., 4,710,758, Cl. 340-712.000.

Swartz, Mitchell R. Systems to preserve living tissue. 4,681,839, 7-21-87, Cl. 435-1.000.

Swartz, Robert G., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Means for controlling a semiconductor device and communication system comprising the means. 4,680,810, 7-14-87, Cl. 455-609.000.

Swartz, William E.: *See*—
Brotsky, Eugene; Everson, Charles W.; and Swartz, William E., 4,670,277, Cl. 426-310.000.

Swartzbaugh, Peter T., to Owens-Illinois, Inc. Child-resistant package. 4,687,112, 8-18-87, Cl. 215-216.000.

Swartzendruber, Ray E.; and Coffman, Keith, to Chore-Time Equipment, Inc. Apparatus for feeding livestock. 4,640,229, 2-3-87, Cl. 119-51.110.

Swartzendruber, Ray E., to Chore-Time Equipment, Inc. Intake cup apparatus. 4,667,623, 5-26-87, Cl. 119-52.0AF.

Swartzlander, Guy J. Percussion mallet for a musical instrument. 4,649,792, 3-17-87, Cl. 84-422.00S.

Swasdee, Manot: *See*—
Eccleston, Larry; Goodrich, Earl R., II; and Swasdee, Manot, 4,668,942, Cl. 340-551.000.

Swasey, Frank B.: *See*—
Lai, Kwo-Hrong; Lapkin, Milton; and Swasey, Frank B., 4,657,964, Cl. 524-409.000.

Swatek, Harald: *See*—
Rieder, Heinz; Schwaiger, Max; and Swatek, Harald, 4,636,079, Cl. 356-374.000.

Swatos, William J.: *See*—
Lengnick, Guenther F.; Sanders, Albert J., Jr.; and Swatos, William J., 4,671,933, Cl. 422-9.000.

Sway-Tin, Min: *See*—
Kissel, William R.; Sway-Tin, Min; Merchant, Daniel P.; and Frantz, Douglas C., 4,659,977, Cl. 320-64.000.

(SWC) Stauffer-Wacker Silicones Corporation: *See*—
Manis, Paul A.; and Martin, Eugene R., 4,647,683, Cl. 556-440.000.

Sweany, Ralph S. Shaft speed monitor. 4,713,654, 12-15-87, Cl. 340-671.000.

Swearingen, Judson S., to Rotoflow Corporation. Turbine shutdown control system. 4,695,221, 9-22-87, Cl. 415-36.000.

Swearingen, Judson S. Bearing support system with controllable spring rate. 4,696,585, 9-29-87, Cl. 384-399.000.

Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., to Dow Chemical Company, The. Thermosettable polymer or prepolymer prepared from herterocycle material containing a nitrogen atom and carboxylic acid mono- or dianhydride. 4,647,616, 3-3-87, Cl. 524-600.000.

Swearingen, Loren L.; Earls, Jimmy D.; and LaTulip, Randy J., to Dow Chemical Company, The. Thermosettable polymer or prepolymer prepared from heterocyclic material containing a nitrogen atom and carboxylic acid mono- or dianhydride. 4,668,767, 5-26-87, Cl. 528-341.000.

Swearingen, Loren L., Earls, Jimmy D.; and LaTulip, Randy J., to Dow Chemical Company, The. Thermosettable polymer or prepolymer prepared from heterocyclic materials containing a nitrogen atom and carboxylic acid mono- or dianhydride with N,N'-bis-imide. 4,684,693, 8-4-87, Cl. 524-600.000.

Swearingen, Loren L.; Embrey, Wallace E.; LaTulip, Randy J.; Earls, Jim D.; and McConchie, Garnet E., to Dow Chemical Company, The. Single pass process for making trimethyl pyridine. 4,701,529, 10-20-87, Cl. 546-251.000.

Swearingen, Loren L.; and LaTulip, Randy J., to Dow Chemical Company, The. Two-stage process for making trimethyl pyridine. 4,701,530, 10-20-87, Cl. 546-251.000.

Sweat, Samuel F.: *See*—
Somerville, Robert L.; Sweat, Samuel F.; and Sullivan, John L., 4,634,533, Cl. 210-722.000.

Sweatman, Bobby. Chalk line marking device. 4,679,325, 7-14-87, Cl. 33-138.000.

Sweatt, William: *See*—
Sawicki, Richard H.; and Sweatt, William, 4,647,164, Cl. 350-611.000.
Sawicki, Richard H.; and Sweatt, William, 4,664,488, Cl. 350-611.000.

Swedish Graft Technique AB: *See*—
Bowald, Staffan F., 4,713,072, Cl. 623-6.000.

Swedlow, Inc.: *See*—
Ashlock, Lysander T.; Mukamal, Harold; and White, William H., 4,702,773, Cl. 106-287.120.
Holdridge, David W., 4,682,856, Cl. 350-319.000.

Swedo, Raymond J.: *See*—
Zupancic, Joseph J.; and Swedo, Raymond J., 4,661,254, Cl. 210-490.000.
Zupancic, Joseph J.; Swedo, Raymond J.; and Petty-Weeks, Sandra L., 4,664,757, Cl. 204-1.00T.
Zupancic, Joseph J.; Swedo, Raymond J.; and Petty-Weeks, Sandra L., 4,664,761, Cl. 204-129.000.
Zupancic, Joseph J.; and Swedo, Raymond J., 4,695,483, Cl. 427-244.000.
Zupancic, Joseph J.; Swedo, Raymond J.; and Petty-Weeks, Sandra, 4,708,981, Cl. 525-59.000.

Swedowski, John E.: *See*—
Fritsch, Ronald J.; and Swedowski, John E., 4,671,588, Cl. 439-160.000.

Swedspan AB: *See*—
Bjorlin, Anders; Edberg, Thomas; Sjoblom, Eva; and Westling, Anders, 4,670,184, Cl. 252-311.000.

Sween Corporation: *See*—
Peirce, James G.; and Sween, Maurice A., 4,654,014, Cl. 440-59.000.

Sween, Maurice A.: *See*—
Peirce, James G.; and Sween, Maurice A., 4,654,014, Cl. 440-59.000.

Sweeney, Christopher L.: *See*—
Wertz, Ronald D.; Orszulak, James H.; and Sweeney, Christopher L., 4,680,599, Cl. 340-744.000.

Sweeney, Patrick; Camisso, Frank; and Burns, Scott. Locking wedge system. 4,688,363, 8-25-87, Cl. 52-407.000.

Sweeney, Ronald M.: *See*—
Rimmer, James R.; and Sweeney, Ronald M., 4,712,358, Cl. 53-450.000.

Sweeney, Theodore J., to Theodore Sweeney & Company, Inc. Adhesively securable fastener. 4,693,652, 9-15-87, Cl. 411-23.000.

Sweeney, W. Alan, to Chevron Research Company. Nonionic emulsifier and substituted succinic anhydride compositions therewith. 4,695,401, 9-22-87, Cl. 252-312.000.

Sweeney, William M.; Zoleski, Benjamin H.; Sung, Rodney L. D.; and Crawford, Wheeler C., to Texaco Inc. Gasoline crankcase lubricant. 4,704,217, 11-3-87, Cl. 252-32.70E.

Sweeney, William M.: *See*—
Nelson, Edward C.; and Sweeney, William M., 4,670,021, Cl. 44-66.000.

Sweeny, Henry D., to Swenco Limited. Tape applicator. 4,707,202, 11-17-87, Cl. 156-71.000.

Sweeny, Mark F.; Gershenson, Meir; Fleming, David L.; and Bar
Robert E., to Sperry Corporation. Intermediate normal metal lay
in superconducting circuitry. 4,660,061, 4-21-87, Cl. 357-5.000.

Sweeny, Peter K. Apparatus for adjusting the plate segment of
off-set lithographic printer. 4,641,577, 2-10-87, Cl. 101-415.100.

Sweers, Ronald L. Edge clip for an eaves trough mounting adapt
4,713,915, 12-22-87, Cl. 52-11.000.

Sweet, Douglas W., to General Motors Corporation. Serial pulse
quency converter. 4,672,643, 6-9-87, Cl. 377-47.000.

Sweet, Ervin J., to Avco Corporation. Combustor liner wall. 4,642,9
2-17-87, Cl. 60-752.000.

Sweet, Larry M.: *See*—
Haefner, Kenneth B.; Sweet, Larry M.; and Kuo, Ming
4,675,502, Cl. 219-124.340.

Sweet, Paula J. Method of assembling textiles. 4,665,851, 5-19-87,
112-262.100.

Sweet, Richard C.: *See*—
Bronnes, Robert L.; Sweet, Richard C.; and McKinlay, James
4,643,347, Cl. 228-208.000.

Sweet, Richard F. Playing card holder with tufted flock lin
4,669,733, 6-2-87, Cl. 273-150.000.

Sweet, Richard G.: *See*—
Nozaki, Tom, Jr.; Sweet, Richard G.; Stovel, Richard T.; a
Earks, David R., 4,667,830, Cl. 209-3.100.

Sweet Victory, Inc.: *See*—
Levine, Morris M., 4,637,221, Cl. 62-342.000.

Sweetana, Andrew S.: *See*—
Carothers, Charles H.; and Sweetana, Andrew S., 4,663,692,
361-117.000.

Sweetin, Willard L. Apparatus and methods for engaging toothpicks
assemble a toy structure. 4,637,805, 1-20-87, Cl. 446-71.000.

Sweetman, James D., to Paragon Electric Co., Inc. Battery power
motor drive with temperature-responsive battery heater. 4,667,14
5-19-87, Cl. 318-696.000.

Sweeton, David C.: *See*—
Engdahl, Jonathan R.; Hanneman, Jeffery A.; and Sweeton, Dav
C., 4,667,323, Cl. 370-85.000.

Sweetser, Philip B.: *See*—
Amuti, Kofi S.; and Sweetser, Philip B., 4,645,527, Cl. 71-96.000.

Sweetsir, Joel M. Retractable cleat for marine vessel. 4,672,909, 6-16-
Cl. 114-218.000.

Sweezy, Nelson E.: *See*—
Scott, Eddie W.; and Sweezy, Nelson E., 4,668,553, Cl. 428-92.00

Sweigart, Gerhard: *See*—
Paetsch, Jochen; Herlemann, Werner; Sweigart, Gerhard; Jard
Hans; and Lutz, Alfons, 4,702,518, Cl. 296-217.000.

Swenco Limited: *See*—
Sweeny, Henry D., 4,707,202, Cl. 156-71.000.

Swendrowski, Steven D.: *See*—
Newton, Edward L.; and Swendrowski, Steven D., 4,696,526,
439-68.000.

Swendson, David L.; Elson, Edward E.; Lieber, Clement; and Rol
Michael D., to American Hospital Supply Corporation. Guidi
catheter and method of use. 4,651,751, 3-24-87, Cl. 128-786.000.

Swengel, Robert C., Sr., to Donsco Incorporated. Oscillating devi
having improved support legs. 4,681,314, 7-21-87, Cl. 272-52.000.

Swengel, Robert C., Sr., to Donsco Inc. Oscillating device havi
improved support legs and demountable base. 4,693,466, 9-15-87,
272-52.000.

Swensen, Michael W.; Martin, William C.; and Kight, Henry H.
Texas Instruments Incorporated. Computer cooling system us
recycled coolant. 4,644,443, 2-17-87, Cl. 361-384.000.

Swenson, Clark E.: *See*—
Gallo, Frank G.; Swenson, Clark E.; Benclowski, William A.; C
sette, Angelo J.; Manno, John L.; and Paclak, Edward
4,716,010, Cl. 376-260.000.
Kasner, William H.; Cooper, Martin H.; Swenson, Clark E.; Co
Albert P.; and Andrews, Katherine M., 4,683,365, Cl. 2
121.0LC.

Swenson, John E.: *See*—
Frushour, James E.; Mahar, Michael L.; Majka, Christopher J.;
Swenson, John E., 4,644,237, Cl. 318-313.000.

Swenson, Paul F., Jr.; and Heinrich, Charles E., to TRD Corporati
Pump for saturated liquid. 4,681,510, 7-21-87, Cl. 415-168.000.

Swenson, Paula S., to Neptune Corporation. Illuminated infant t
4,701,146, 10-20-87, Cl. 446-130.000.

Swenson, Richard C., to United States of America, Navy. Capst
adaptable "V" puller. 4,662,609, 5-5-87, Cl. 254-371.000.

Swenson, Roy S.; MacDonald, Donald M.; Ring, Michael; and Fie
Jasper H., to International Paper Company. Kraft linerboard
densification and heat treatment. 4,692,212, 9-8-87, Cl. 162-206.00

Swenson, Steven L., to Onan Corporation. Engine starting cycle
overcrank control system. 4,653,442, 3-31-87, Cl. 123-179.00B.

Swensrud, Roger L.; Ziegler, James R.; Soroka, Daniel P.; and Wil
Donald L., to Westinghouse Electric Corp. Welding wire feed
apparatus with orbital mounting assembly. 4,650,959, 3-17-87,
219-125.100.

Swensrud, Roger L.; White, Mark D.; Janosik, Michael J.; Soro
Daniel P.; and Zelezniak, Joseph J., to Westinghouse Electric Co
Robot laser system. 4,659,902, 4-21-87, Cl. 219-121.0LU.

Swensrud, Roger L., to Westinghouse Electric Corp. End-of-
tooling carousel apparatus for use with a robot. 4,661,680, 4-28-87,
219-121.0LU.

Swensrud, Roger L.: *See*—
Soroka, Daniel P.; Swensrud, Roger L.; and Zelezniak, Joseph
4,710,606, Cl. 219-121.0LU.

Swenton, John S.; Horton, Derek; Priebe, Waldemar; and Morrow, Gary W., to Ohio State Research Foundation, The. 1-fluoro, 4-fluoro, and 1,4-difluoro-2'-halo anthracycline antibiotics. 4,663,445, 5-5-87, Cl. 536-6.400.

Swenton, John S.; Morrow, Gary W.; and Priebe, Waldemar, to Ohio State University Research Foundation. 1-fluoro, 4-fluoro, and 1,4-difluoro anthracycline anticancer antibiotics. 4,697,005, 9-29-87, Cl. 536-6.400.

Swerbinsky, Leo, to General Electric Company. Refrigerator cabinet and gasket construction. 4,653,819, 3-31-87, Cl. 312-296.000.

Swerdloff, Michael D.; Rogic, Milorad M.; and Hendrickson, Larry L., to Allied Corporation. Oxidized sulfur derivatives of diaminophosphinyl compounds as urease inhibitors and urease inhibited urea based fertilizer compositions. 4,696,693, 9-29-87, Cl. 71-28.000.

Swerdlow, Martin S. *See*—
Turner, Roger M.; Swerdlow, Martin S.; and Bate, Bernard. 4,662,887, Cl. 623-16.000.

Swerlein, Ronald L.; DesJardin, Lawrence A.; and Stever, Scott, to Hewlett-Packard Company. Device with automatic compensation of an ac attenuator. 4,663,586, 5-5-87, Cl. 324-115.000.

Swetlin, Brian J. *See*—
Chu, Sung G.; Jabloner, Harold; and Swetlin, Brian J., 4,656,208, Cl. 523-400.000.
Jabloner, Harold; Swetlin, Brian J.; and Chu, Sung G., 4,656,207, Cl. 523-400.000.

SWF Auto-Electric GmbH. *See*—
Andrei-Alexandru, Marcel; Kofink, Wolfgang; and Prohaska, Hans, 4,652,781, Cl. 310-83.000.
Andrei-Alexandru, Marcel; Kofink, Wolfgang; Schmid, Eckhardt; and Tietz, Volker, 4,698,560, Cl. 318-54.000.
Bauer, Kurt; and Schneider, Theodor, 4,692,677, Cl. 318-443.000.
Bayha, Heiner; Kluge, Hermann; and Rachner, Horst, 4,694,211, Cl. 310-71.000.
Egner-Walter, Bruno; Schmid, Eckhardt; and Scholl, Wolfgang, 4,641,389, Cl. 15-250.210.
Egner-Walter, Bruno; Neubauer, Walter; Schmid, Eckhardt; and Scholl, Wolfgang, 4,648,148, Cl. 15-250.210.
Erdelitsch, Herbert; Gaudich, Werner; and Hecht, Walter, 4,648,728, Cl. 384-537.000.
Kluge, Hermann, 4,673,333, Cl. 415-213.00T.
Kohler, Alfred; Schneider, Theodor; and Schubert, Karl F., 4,639,065, Cl. 339-119.00R.
Prohaska, Hans, 4,701,971, Cl. 15-250.210.

Swiatlowski, George J.; Trapp, Donald P.; Liescheidt, Duane B.; McDaniel, Arden G.; and Brandt, Maurice W., to Gerber Products Company. Apparatus and method for assembling product combinations. 4,673,078, 6-16-87, Cl. 198-450.000.

Swick, E. Grant; and McCully, Peter K., to Illinois Tool Works Inc. Branch retainer. 4,655,000, 4-7-87, Cl. 47-44.000.

Swick, E. Grant. *See*—
Ruehl, William E.; Heidorn, Richard H.; and Swick, E. Grant, 4,654,743, Cl. 361-111.000.
Schavilje, John N.; and Swick, E. Grant, 4,655,423, Cl. 248-71.000.

Swiderski, Kevin J., to B & G Machinery Company. Preform transfer mechanism. 4,709,803, 12-1-87, Cl. 198-468.200.

Swidwa, Kenneth J. *See*—
Rohosky, Thomas L.; and Swidwa, Kenneth J., 4,699,753, Cl. 376-268.000.

Swiech, Matthew J. *See*—
Munyon, Gary D.; and Swiech, Matthew J., 4,690,053, Cl. 101-328.000.

Swiech, Tom E., Jr.; and Maher, David P. Vending machine panels. 4,642,959, 2-17-87, Cl. 52-311.000.

Swietek, Franciscek J. *See*—
Horlitz, Carl F., Jr.; and Swietek, Franciscek J., 4,633,818, Cl. 122-4.00D.

Swift, Allan W. Security seal and seal assembly. 4,664,432, 5-12-87, Cl. 292-282.000.

Swift, Allan W., to E. J. Brooks Company. Security seal of the padlock type. 4,687,240, 8-18-87, Cl. 292-320.000.

Swift, Allan W. Security seal. 4,697,833, 10-6-87, Cl. 292-318.000.

Swift, Gerald W.; and Stones, David L., to TRW Inc. Radial wave power divider/combiner and related method. 4,684,874, 8-4-87, Cl. 333-125.000.

Swift, Graham. *See*—
Beckley, Ronald S.; Randow, Rodney L.; and Swift, Graham, 4,683,100, Cl. 260-513.00R.

Swift, Harold. *See*—
Baseman, Maurice; and Swift, Harold, 4,687,634, Cl. 422-7.000.

Swift, Ian; and Fauske, Hans K., to Fike Corporation. Micro-scale chemical process simulation methods and apparatus useful for design of full scale processes, emergency relief systems and associated equipment. 4,670,404, 6-2-87, Cl. 436-147.000.

Swift, Jeffery G. Expansible object. 4,715,840, 12-29-87, Cl. 446-74.000.

Swift, Joseph A., to Xerox Corporation. Electrostatic charging and cleaning brushes. 4,706,320, 11-17-87, Cl. 15-1.50R.

Swift, Joseph A. *See*—
Bean, Lloyd F.; Forbes, Richard L., II; Swift, Joseph A.; and Tharp, Bruce E., 4,681,426, Cl. 355-15.000.

Swift, Patricia A. *See*—
Georgiev, Vassil S.; Mullen, George B.; and Swift, Patricia A., 4,649,222, Cl. 564-459.000.

Swift, Shirley F. *See*—
Clements, Silous F.; Motola, Patrick D.; and Swift, Shirley F., 4,642,792, Cl. 364-900.000.

Swift, Stephen D. *See*—
Garman, James A.; and Swift, Stephen D., 4,639,995, Cl. 29-402.080.

Swift, William; and Fischell, Robert E., to Parker Hannifin Corporation. Passive filling device. 4,697,622, 10-6-87, Cl. 141-1.000.

Swift, William. *See*—
Fischell, Robert E.; Sadilek, Albert C.; and Swift, William, 4,661,097, Cl. 604-123.000.

Swift, William G., to Parker Hannifin Corporation. Fitting with prestressed septum. 4,655,765, 4-7-87, Cl. 604-891.000.

Swigert, Charles J. System for wide bandwidth damping. 4,633,982, 1-6-87, Cl. 188-267.000.

Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J.; and Crowell, Jonathan C., to Kollmorgen Technologies Corporation. Apparatus for making scribed circuit boards and circuit board modifications. 4,693,778, 9-15-87, Cl. 156-361.000.

Swiggett, Brian E.; Morino, Ronald; Keogh, Raymond J.; Crowell, Jonathan C.; Czenczy, George; Schoenberg, Andrew J.; and Friedrich, Marju L., to Kollmorgen Technologies Corporation. Method of making wires scribed circuit boards. 4,711,026, 12-8-87, Cl. 29-850.000.

Swihart, Terence J.; and Broderick, Dennis W., to Dow Corning Corporation. Bakeware release coating. 4,677,147, 6-30-87, Cl. 524-268.000.

Swihart, William R.; and Deacon, Edwin R., to Garrett Corporation, The. Actuation system for variable nozzle turbine. 4,679,984, 7-14-87, Cl. 415-163.000.

Swilley, Dennis N. Chair with interlocking multiple components. 4,712,837, 12-15-87, Cl. 297-442.000.

Swilley, Wilson H., to Cincinnati Butchers' Supply Company, The. Overhead trolley track switch. 4,646,646, 3-3-87, Cl. 104-100.000.

Swilley, Wilson H., to Cincinnati Butchers' Supply Company, The. Rotatable livestock head splitter. 4,653,145, 3-31-87, Cl. 17-1.00R.

Swilley, Wilson H., to Cincinnati Butchers' Supply Company, The. Animal hide puller. 4,653,149, 3-31-87, Cl. 17-21.000.

Swilley, Wilson H., to Cincinnati Butchers' Supply Company, The. Head hold down for hide puller. 4,707,885, 11-24-87, Cl. 17-21.000.

Swin, Richard E., Sr.; and Atalla, Anwar A., to Tec-Air, Inc. Ductless air treating device with illuminator. 4,711,161, 12-8-87, Cl. 98-31.500.

Swinbanks, Malcolm A., to National Research Development Corporation. Methods and apparatus for reducing noise by cancellation. 4,637,048, 1-13-87, Cl. 381-71.000.

Swinbanks, Malcolm A., to National Research Development Corporation. Damping for directional sound cancellation. 4,669,122, 5-26-87, Cl. 381-71.000.

Swinburne, Stephen G.; and Gelardi, Anthony L., to Shape Inc. Write/protect tab assembly for a floppy disc jacket and method for assembling same. 4,685,017, 8-4-87, Cl. 360-133.000.

Swinburne, Stephen G. *See*—
Gelardi, Anthony L.; and Swinburne, Stephen G., 4,677,517, Cl. 360-133.000.

Swindal, James L. *See*—
Dalton, Donald A.; Strife, James R.; and Swindal, James L., 4,686,684, Cl. 372-99.000.

Swindall, William S.; Campbell, Brian R.; and Kobi, Donald H., to Highway Products International Inc. Grade and cross fall reference device for highway survey vehicles. 4,674,327, 6-23-87, Cl. 73-146.000.

Swinderman, Robert T., to Martin Engineering Company. Conveyor belt cleaner. 4,643,293, 2-17-87, Cl. 198-497.000.

Swindlehurst, James A., to General Motors Corporation. Seat belt retractor. 4,635,874, 1-13-87, Cl. 242-107.40B.

Swinehart, Steven L., to Nisus Video, Inc. Shutter mechanism for a video tape camera. 4,643,548, 2-17-87, Cl. 352-216.000.

Swinehart, Steven L. Device for adjusting a video tape camera shutter mechanism. 4,699,483, 10-13-87, Cl. 352-216.000.

Swinger, Casimir; and Cassiday, Daniel, to Techno Opthalmics International, Inc. Method and apparatus for modifying corneal buttons. 4,660,556, 4-28-87, Cl. 128-305.000.

Swingler, Donald L., to Commonwealth Scientific and Industrial Research Organization. Dynode structure and array for an electron multiplier. 4,668,890, 5-26-87, Cl. 313-105.00R.

Swinglhe Inc. *See*—
Olesen, Paul, 4,666,075, Cl. 227-128.000.
Olesen, Paul; and Lin, Frank H., 4,705,202, Cl. 227-153.000.

Swinkels, Dominicus A.; Fredericks, Peter M.; and Osborn, Paul R., to Broken Hill Proprietary Co., Ltd., The. Characterizing and handling multi-component substances. 4,701,838, 10-20-87, Cl. 364-164.000.

Swinkels, Wouter H. *See*—
Smulders, Hendricus F. G.; Franken, Adrianus J. J.; Faber, Johannes W.; and Swinkels, Wouter H., 4,637,777, Cl. 414-751.000.

Swinmurn, C. John. *See*—
Gamarra, Jose P.; and Swinmurn, C. John, 4,716,183, Cl. 522-80.000.

Swinmurn, Christopher J. *See*—
Shimirak, Gerlad L.; Hunter, Thomas; Story, Martha F.; Halstead, W. G.; Chan, Paul S.; and Swinmurn, Christopher J., 4,701,574, Cl. 174-93.000.

Swinmurn, John C. *See*—
Debbaut, Christian A. M.; Shimirak, Gerald L.; and Swinmurn, John C., 4,686,327, Cl. 174-88.00R.

Swinney, Denis P.; Twizell, Norman; and Fergusson, Charles W., to Swinney Engineering Limited. Automatic backwashing filter. 4,673,498, 6-16-87, Cl. 210-275.000.

Swinney Engineering Limited: *See*—
Swinney, Denis P.; Twizell, Norman; and Fergusson, Charles W., 4,673,498, Cl. 210-275.000.
Swinton, Andrew D. Apparatus for providing a visual interpretation of an audio signal. 4,713,658, 12-15-87, Cl. 340-815.110.
Swinton, James D.: *See*—
Peebles, John A.; and Swinton, James D., 4,697,944, Cl. 400-635.000.
Swisher, Gary R.; and Meggs, Keith G., to Mattel, Inc. Toy vehicle. 4,655,727, 4-7-87, Cl. 446-470.000.
Swisher, George W., Jr., to CMI Corporation. Road planar having particle reducing means. 4,637,753, 1-20-87, Cl. 404-90.000.
Swisher, James A. Key for a lock of the plunger operated type. 4,698,988, 10-13-87, Cl. 70-34.000.
Swisher, Steven L., to Brunswick Corporation. Feathering ring for fishing reels. 4,637,569, 1-20-87, Cl. 242-84.20A.
Swisher, Steven L., to Brunswick Corporation. Bait alert for spin cast reel. 4,695,009, 9-22-87, Cl. 242-84.10R.
Swisher, Steven L.: *See*—
Carpenter, Robert L.; and Swisher, Steven L., 4,676,450, Cl. 242-84.20G.
Swiss Aluminium Ltd.: *See*—
Angehrn, Guido; and Utz, Manfred, 4,662,650, Cl. 280-789.000.
Brockmeyer, Jerry W.; Aubrey, Leonard S.; Dore, James E.; and Soble, Clifford N., 4,708,326, Cl. 266-159.000.
Clem, Chesley D., 4,664,955, Cl. 428-15.000.
Forster, Ludwig; Franke, Alois; and Nobel, Reinhard, 4,687,566, Cl. 204-279.000.
Frischknecht, Bruno; and Wurgler, Rolf, 4,649,986, Cl. 164-480.000.
Heamon, Mark L., 4,640,497, Cl. 266-227.000.
Hofling, Erich; and Maly, Zdenek, 4,703,187, Cl. 250-571.000.
Kampfer, Konrad; Rieger, Wolfhart; Gauckler, Ludwig; and Dellapina, Marco, 4,678,758, Cl. 501-80.000.
Keller, Felix; Kooijman, Ary A.; Engelsman, Robert; and Fischer, Werner K., 4,676,960, Cl. 423-240.000.
Maly, Zdenek; and Hofling, Erich, 4,634,508, Cl. 204-181.600.
McDonald, Howard A., 4,647,018, Cl. 266-218.000.
Mittelmann, Gerhard, 4,693,345, Cl. 190-108.000.
Paulet, Jean-Francois; and Steup, Heinz, 4,645,580, Cl. 204-272.000.
Pfister, Hans, 4,700,612, Cl. 91-471.000.
Plata, Miroslaw, 4,674,555, Cl. 164-150.000.
Rieder, Werner, deceased; Rieder, Margret, heir; Uttenweiler, Gabriele, heir; and Rieder, Barbara, heir, 4,698,941, Cl. 52-81.000.
Rieger, Wolfhart; Gauckler, Ludwig; Maurer, Albert; and Kampfer, Konrad, 4,690,763, Cl. 210-496.000.
Ritzl, Antal; and Zehnder, Jurg, 4,678,225, Cl. 296-181.000.
Rodrigues, Pedro; Buren, Ingo; and Timm, Jurgen, 4,671,985, Cl. 428-215.000.
Sautebin, Raoul; Weber, Jean-Claude; and Alborghetti, Carlo, 4,699,204, Cl. 164-467.000.
Scharpey, Wilhelm, 4,673,481, Cl. 204-243.00R.
Scharpey, Wilhelm; and Pawlek, Rudolf, 4,683,046, Cl. 204-243.00R.
Skaria, Arankathu; and Goeldi, Heinrich, 4,693,878, Cl. 423-334.000.
Wagner, Alfred; Hodel, Ulf; and Ames, Adolf, 4,703,642, Cl. 72-259.000.
Weingartner, Fritz, 4,637,908, Cl. 264-143.000.
Switall, Thomas G., to Rayco Graphic Manufacturing, Inc. Apparatus for applying silicone emulsion to a paper web. 4,637,341, 1-20-87, Cl. 118-694.000.
Switall, Thomas G., to Ryco Graphic Manufacturing, Inc. Liquid coating supply system for a printing press blanket coater. 4,643,124, 2-17-87, Cl. 118-259.000.
Switall, Thomas G.; Schaefges, Michael; and Goetzelman, Alan, to Ryco Graphic Manufacturing, Inc. Variable frequency pulsed spray dampening system. 4,649,818, 3-17-87, Cl. 101-147.000.
Switchcraft, Inc.: *See*—
Bailey, James R.; and Long, Eric L., 4,681,398, Cl. 350-96.200.
Bailey, James R.; and Basov, Emma, 4,695,116, Cl. 439-188.000.
Kysiak, William J., 4,655,535, Cl. 339-182.00R.
Kysiak, William J., 4,695,117, Cl. 439-188.000.
Lutzenberger, Kurt, 4,652,067, Cl. 339-18.00P.
Switches, Inc.: *See*—
Hilmer, Frederick W., 4,689,573, Cl. 324-380.000.
Swithenbank, Colin: *See*—
Bayer, Horst O.; and Swithenbank, Colin, 4,662,935, Cl. 71-121.000.
Switlicki, Michael. Process for heating hair curlers by microwave energy. 4,710,609, 12-1-87, Cl. 219-222.000.
Switzer, Jay A., to Union Oil Company of California. Photovoltaic device prepared by electroless deposition. 4,644,638, 2-24-87, Cl. 29-572.000.
Switzer, Jay A., to Union Oil Company of California. Electrochemical conversion using alternating current and semiconductor electrodes. 4,663,004, 5-5-87, Cl. 204-129.000.
Switzer, Jay A., to Union Oil Company of California. Electrical contacts containing thallium (III) oxide. 4,706,104, 11-10-87, Cl. 357-67.000.
Swivelier: *See*—
Phelan, Gerard, 4,638,970, Cl. 248-342.000.
SWM Corporation: *See*—
Falck, Glenn H., 4,665,810, Cl. 99-348.000.
Mitchell, Wayne R., 4,664,006, Cl. 83-341.000.
Prew, Stanley R., 4,697,750, Cl. 241-247.000.
Swoboda, Jack W., to Pioneer Magnetics, Inc. Self-balancing push-pull square wave converter type of switched power supply. 4,656,570, 4-7-87, Cl. 363-26.000.
Swoboda, Jack W., to Pioneer Magnetics, Inc. Battery backup system for switched power supply. 4,672,228, 6-9-87, Cl. 307-66.000.
Swoboda, Johann: *See*—
Berger, Rosemarie; Dreher, Hermann; Hambrecht, Juergen; Heil, Eduard; Reffert, Rudi W.; Swoboda, Johann; Echte, Adolf; and Siebel, Peter, 4,654,418, Cl. 528-486.000.
Brandt, Hermann; Fischer, Hermann; Dreher, Hermann; Heil, Eduard; Hambrecht, Juergen; Naarmann, Herbert; Echte, Adolf; Gausepohl, Hermann; Siebel, Peter; Swoboda, Johann; Schwoebel, Gerd; and Nikles, Albert, 4,696,996, Cl. 528-214.000.
Hambrecht, Juergen; Schmitt, Burghard; Swoboda, Johann; Wassmuth, Georg; Bernhard, Claus; and Stephan, Rudolf, 4,634,734, Cl. 525-85.000.
Swofford, Rodney W.: *See*—
Waters, Roger D.; Cox, John E.; and Swofford, Rodney W., 4,665,816, Cl. 100-38.000.
Swoll, Eva C.: *See*—
Baker, Robin C.; Brown, Steven E.; Lothrop, John R.; Lozyniak, Roman; Miller, Paul E.; Olsen, Robert H.; Parker, Charles H.; and Swoll, Eva C., 4,680,786, Cl. 379-60.000.
Swon, James E.; and Hill, Glen W. Friability drum tester for pharmaceutical tablets. 4,658,631, 4-21-87, Cl. 73-7.000.
Sword, Alexander F. Line coupling apparatus. 4,653,792, 3-31-87, Cl. 294-82.140.
Swoveland, Jack E., to Dana Corporation. Control cable attachment assembly. 4,643,042, 2-17-87, Cl. 74-501.50R.
SWS Silicones Corporation: *See*—
Manis, Paul A.; Martin, Eugene R.; and Muntz, Ronald L., 4,644,074, Cl. 556-401.000.
Syarto, Louis W.: *See*—
Zimmerman, Sanford S.; and Syarto, Louis W., 4,705,438, Cl. 409-132.000.
Syba Limited: *See*—
Choong, John; and Hollington, Geoffrey, 4,666,121, Cl. 248-575.000.
Sybert, Joanna R.: *See*—
Wolfe, James F.; Sybert, Paul D.; and Sybert, Joanna R., 4,703,103, Cl. 528-179.000.
Sybert, Paul D.: *See*—
Wolfe, James F.; Sybert, Paul D.; and Sybert, Joanna R., 4,703,103, Cl. 528-179.000.
Sybron Chemicals Holdings Inc.: *See*—
Richardson, Ray O.; Bromirski, Anthony F.; and Davis, Lois T., 4,655,794, Cl. 51-293.000.
Sycha, Alec B.: *See*—
Bardsley, Frank B.; and Sycha, Alec B., 4,712,846, Cl. 439-33.000.
Sydansk, Robert D., to Marathon Oil Company. Permeability restoration of damaged formations. 4,673,040, 6-16-87, Cl. 166-305.100.
Sydansk, Robert D.; and Argabright, Perry A., to Marathon Oil Company. Conformance improvement in a subterranean hydrocarbon-bearing formation using a polymer gel. 4,683,949, 8-4-87, Cl. 166-270.000.
Sydiskis, Robert J.; and Owen, David G. Aloe emodin and other anthraquinones and anthraquinone-like compounds from plants virucidal against herpes simplex viruses. 4,670,265, 6-2-87, Cl. 424-195.100.
Sydo, Lukas: *See*—
Butts, Gary; Sydo, Lukas; and Rossi, Victor L., 4,678,347, Cl. 384-43.000.
Syenergy Methods, Inc.: *See*—
Marston, Caroll E., 4,651,490, Cl. 52-410.000.
Syka, John E. P.: *See*—
Fies, William J., Jr.; Kelley, Paul E.; Reynolds, Walter E.; Stafford, George C., Jr.; and Syka, John E. P., 4,650,999, Cl. 250-282.000.
Louris, John N.; Syka, John E. P.; and Kelley, Paul E., 4,686,367, Cl. 250-290.000.
Sykes, Arthur R.: *See*—
Klein, William L.; and Sykes, Arthur R., 4,675,178, Cl. 424-65.000.
Sykes, Christopher G.: *See*—
Bryant, Michael J.; Attenborough, Frank R.; Sykes, Christopher G.; and Cameron, Neil W., 4,638,469, Cl. 367-154.000.
Sykes, Donald J., to Marpac Industries, Inc. Method for converting an expended thermoplastic article into a useful article. 4,678,617, 7-7-87, Cl. 264-25.000.
Sykes, Harry P., to Walnut Industries, Inc. Reinforced container and method of making. 4,655,366, 4-7-87, Cl. 220-441.000.
Sykes, Paul B.: *See*—
Klosowski, Jerome M.; Meddaugh, Michael D.; Sykes, Paul B.; and Wright, Antony P., 4,657,967, Cl. 524-860.000.
Sykes, Richard B.: *See*—
Liu, Wen-Chih; Parker, William L.; Singh, Pushpa; and Sykes, Richard B., 4,686,299, Cl. 549-271.000.
Sykes, Willard D. Fishing line signal device. 4,651,460, 3-24-87, Cl. 43-17.000.
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Sykora, Neal L. Lawn rake. 4,649,698, 3-17-87, Cl. 56-400.170.
Syldatk, Andreas: *See*—
Krause, Horst-Jurgen; Syldatk, Andreas; and Sung, Eric, 4,648,984, Cl. 252-174.220.
Sylling, Truman V.; and Allen, Stephen L. Method for desalination and rehabilitation of irrigated soil. 4,687,505, 8-18-87, Cl. 71-27.000.

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Cardenas, Carlos G.; Evans, James M.; Stark, Charles J.; and Ehmann, William J., 4,670,504, Cl. 524-504.000.
Sylvan, Richard: *See—*
Handler, Milton E.; Sylvan, Richard; and Peterson, Michael, 4,682,698, Cl. 211-70.600.
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Sylvester, Judith M.; and Kimball, David J., to Dow Corning Corporation. Dispersant composition for magnetic media, 4,640,790, 2-3-87, Cl. 252-62.540.
Sylvester, Vito P.: *See—*
Patrician, Thomas J.; Sylvester, Vito P.; and Martin, Harry D., III, 4,670,216, Cl. 419-15.000.
Sylvester, William, to Safariland Ballistics, Inc. Ballistics vest, 4,697,285, 10-6-87, Cl. 2-2.500.
Syma Intercontinental AG: *See—*
Strassle, Marcel, 4,641,983, Cl. 403-12.000.
Symbol Technologies, Inc.: *See—*
Shepard, Howard M.; Barkan, Edward D.; and Swartz, Jerome, 4,673,805, Cl. 235-472.000.
Symbolics Inc.: *See—*
Nestler, Eric, 4,716,287, Cl. 250-227.000.
Symes, Kenneth C.; Langley, John; and Mistry, Kishor K., to Allied Colloids Limited. Polymeric products and their production, 4,705,825, 11-10-87, Cl. 524-732.000.
Symes, Randall A.; and Zablocki, Richard T., to Applied Power Inc. System for disabling, enabling and otherwise controlling vehicle functions based upon continuous measurement of clutch wear and clutch position, 4,664,239, 5-12-87, Cl. 192-0.084.
Symington, John, to Sundstrand Corporation. Regenerator with spray cooler, 4,637,215, 1-20-87, Cl. 60-688.000.
Symington, John: *See—*
Fairchild, Jeffery; Hertz, Steven A.; and Symington, John, 4,696,618, Cl. 415-119.000.
Symington, John M.; and Listrom, Robin D., to University of Toronto Innovations Foundation. Fixture for attaching prosthesis to bone, 4,713,003, 12-15-87, Cl. 433-173.000.
Symon, Georg, to Rieter Machine Works Limited. Apparatus for interlacing a multi-filament yarn, 4,667,380, 5-26-87, Cl. 28-271.000.
Symon, Georg: *See—*
Graf, Felix; Schneeberger, Ruedi; and Symon, Georg, 4,712,746, Cl. 242-43.00R.
Symonds, Denzil J. W.: *See—*
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Symons, James D.: *See—*
DeHart, Arnold O.; and Symons, James D., 4,645,414, Cl. 415-83.000.
Symphar S.A.: *See—*
Bentzen, Craig L.; Guyon-Gellin, Yves; Kalathakis, Kyriacos; Phan, Hieu T.; Nguyen Mong, Lan; Niesor, Eric; and Rossier, Jean-Robert, 4,696,920, Cl. 514-89.000.
Syntonic SA: *See—*
Charmillot, Rene; and Lebet, Jean-Pierre, 4,649,935, Cl. 128-783.000.
Synbiotics, Corporation: *See—*
Vodian, Morton A.; and Bean, Eric S., 4,702,001, Cl. 435-5.000.
Synchro-Start Products, Inc.: *See—*
Mishler, Ralph E.; and Stocco, Peter J., 4,679,017, Cl. 335-164.000.
Syncro Machine Co.: *See—*
Hattersley, Harold J., Jr., 4,643,368, Cl. 242-25.00A.
Syndicat National des Entreprises de Drainage: *See—*
Goyet, Noel, 4,677,555, Cl. 364-424.000.
Synektron Corporation: *See—*
Pailthorp, Robert M.; Stupak, Joseph J., Jr.; and Elliott, Randall B., 4,656,400, Cl. 318-135.000.
Stupak, Joseph J., Jr., 4,659,969, Cl. 318-128.000.
Stupak, Joseph J., Jr., 4,665,348, Cl. 318-135.000.
Synergen Associates, Inc.: *See—*
Squires, Charles H.; Heefner, Donald L.; Evans, Ronald J.; Kopp, Beatrice J.; and Yarus, Michael J., 4,690,897, Cl. 435-320.000.
Synergist Limited: *See—*
Gerow, Frank J., 4,690,135, Cl. 128-779.000.
Synergy Computer Graphics Corporation: *See—*
Dahlquist, Brian J., 4,672,399, Cl. 346-160.000.
Doggett, David E., 4,672,400, Cl. 346-160.000.
Synofzik, Reinhard; Schwenzer, Michael; and Wallow, Peter, to Rheinmetall GmbH. Cartridged ammunition for gun barrel weapons, 4,671,179, 6-9-87, Cl. 102-430.000.
Synrinx Innovations Limited: *See—*
Strachan, John S., 4,689,614, Cl. 340-706.000.
Syntex Pharmaceuticals International Limited: *See—*
Schloemer, George C., 4,654,438, Cl. 562-496.000.
Syntex (U.S.A.) Inc.: *See—*
Armenta, Richard; Gibbons, Ian; and Olson, John, 4,668,620, Cl. 435-7.000.
Briggs, Jonathan, 4,676,640, Cl. 356-317.000.
Chan, Tai W.; and Nguyen, Huong T., 4,642,346, Cl. 544-276.000.
Clark, Robin; Muchowski, Joseph M.; Chiu, Fang-Ting; Gardner, John O.; and Berger, Jacob, 4,667,038, Cl. 546-145.000.
Clark, Robin; Muchowski, Joseph M.; Chiu, Fang-Ting; Gardner, John O.; and Berger, Jacob, 4,681,889, Cl. 514-307.000.
Clark, Robin D.; and Waterbury, L. David, 4,642,378, Cl. 564-51.000.
Clark, Robin D.; and Povzhitkov, Moysey M., 4,672,071, Cl. 514-356.000.
Collins, Christine G.; Pankey, Susan; and Jaklitsch, Anna, 4,652,529, Cl. 436-92.000.
Cook, Robert D.; and Besemer, Donald M., 4,676,656, Cl. 366-142.000.
DiNello, Robert K.; Gibbons, Ian; and Ullman, Edwin F., 4,687,735, Cl. 435-7.000.
Eppstein, Deborah A.; Fraser-Smith, Elizabeth; and Matthews, Thomas R., 4,684,625, Cl. 514-19.000.
Fried, John H.; and Venuti, Michael C., 4,690,925, Cl. 514-267.000.
Gallop, Paul M., 4,634,722, Cl. 523-106.000.
Greenhouse, Robert J.; and Muchowski, Joseph M., 4,654,360, Cl. 514-418.000.
Guzman, Angel; and Muchowski, Joseph M., 4,670,465, Cl. 514-522.000.
Jones, Gordon H.; Venuti, Michael C.; Alvarez, Robert; Bruno, John J.; and Pfister, Jurg R., 4,663,320, Cl. 514-212.000.
Kent, John S.; Lewis, Danny H.; Sanders, Lynda M.; and Tice, Thomas R., 4,675,189, Cl. 424-490.000.
Khanna, Pyare; and Colvin, Warren, 4,652,531, Cl. 436-501.000.
Khanna, Pyare; Ernst, Roberta D.; and Stone, Anne J., 4,654,311, Cl. 436-175.000.
Kluge, Arthur F.; and Wu, Helen Y., 4,678,805, Cl. 514-510.000.
Krantz, Alexander; Spencer, Robin; and Tam, Tim, 4,657,893, Cl. 514-18.000.
Krantz, Alexander; and Castelhano, Arlindo L., 4,661,510, Cl. 514-400.000.
Krantz, Alexander; Spencer, Robin; Tam, Tim; and Liak, Teng J., 4,665,070, Cl. 514-232.000.
Krantz, Alexander; Castelhano, Arlindo L.; and Pliura, Diana H., 4,668,703, Cl. 514-549.000.
Liu, Yen-Ping; Ullman, Edwin F.; and Becker, Martin J., 4,650,770, Cl. 436-523.000.
Lowin, David A.; Fayram, Richard A.; and Bivetto, Andrew J., 4,636,202, Cl. 604-236.000.
Muchowski, Joseph M.; Greenhouse, Robert J.; and Guzman, Angel, 4,707,473, Cl. 514-63.000.
Nash, John E., 4,634,379, Cl. 433-166.000.
Nelson, Peter; and Unger, Stefan H., 4,680,300, Cl. 514-312.000.
Nelson, Peter H.; Allison, Anthony C.; and Eugui, Elsie M., 4,686,234, Cl. 514-469.000.
Nestor, John J., 4,659,693, Cl. 514-12.000.
Nestor, John J.; and Vickery, Brian H., 4,698,442, Cl. 562-560.000.
Nestor, John J., Jr.; and Vickery, Brian H., 4,667,014, Cl. 530-313.000.
Nestor, John J., Jr.; and Schreiber, Alain B., 4,686,283, Cl. 530-327.000.
Nestor, John J., Jr.; and Vickery, Brian, 4,690,916, Cl. 514-15.000.
Pascal, Jean-Claude, 4,713,382, Cl. 514-255.000.
Roszkowski, Adolph P., 4,647,580, Cl. 514-464.000.
Tasset, Carl J., 4,686,002, Cl. 156-659.100.
Ullman, Edwin F., 4,713,348, Cl. 436-501.000.
Venuti, Michael C., 4,670,434, Cl. 514-234.000.
Verheyden, Julien P. H.; Martin, John C.; Madhavan, G. V. Bindu; McGee, Daniel P. C.; and Prisbe, Ernest J., 4,704,392, Cl. 514-267.000.
Zuk, Robert F.; and Litman, David J., 4,654,300, Cl. 435-7.000.
Synthaxe Limited: *See—*
Aitken, William A.; Sedivy, Anthony J.; and Dixon, Michael S., 4,658,690, Cl. 84-1.140.
Synthelabo: *See—*
Bigg, Denis; Menin, Jacques; Maloizel, Christian; and Merly, Jean, 4,659,731, Cl. 514-397.000.
Gaudilliere, Bernard; and Rousseau, Jean, 4,711,899, Cl. 514-330.000.
George, Pascal; and Giron, Claude, 4,650,796, Cl. 514-213.000.
George, Pascal; and De Peretti, Danielle, 4,675,323, Cl. 514-292.000.
Imbach, Jean-Louis; Gosselin, Gilles; and De Rudder, Jean, 4,659,698, Cl. 514-49.000.
Manoury, Philippe; Binet, Jean; and Dewitte, Elisabeth, 4,680,296, Cl. 514-259.000.
Manoury, Philippe; Obitz, Daniel; and Peynot, Michel, 4,711,892, Cl. 514-336.000.
Purcell, Thomas; and Zard, Lydia, 4,701,466, Cl. 514-450.000.
Raizon, Bernard; Rossey, Guy; and Wick, Alexander, 4,638,080, Cl. 560-35.000.
Regnier, Francois, 4,661,491, Cl. 514-260.000.
Rossey, Guy; and Legroux, Didier, 4,656,278, Cl. 546-140.000.
Wick, Alexander; Frost, Jonathan; and Bertin, Jean, 4,661,498, Cl. 514-302.000.
Wick, Alexander; and Raizon, Bernard, 4,663,350, Cl. 514-539.000.
Wick, Alexander; Frost, Jonathan; Gaudilliere, Bernard; Bertin, Jean; Dupont, Regis; and Rousseau, Jean, 4,690,931, Cl. 514-317.000.
Synthes Ltd. (U.S.A.): *See—*
Klaue, Kaj, 4,705,027, Cl. 128-92.0YY.
Synthes (U.S.A.): *See—*
Comte, Pierre-Andre; Burri, Caius; Claes, Lutz; Gerngross, Heinz; and Meier, Remy, 4,714,076, Cl. 128-92.0ZW.
Syntro Corporation: *See—*
Walfield, Alan M.; and Pollock, Thomas J., 4,652,628, Cl. 530-324.000.

Syntron, Inc.: *See*—
Woods, Theodore E.; Cole, Jimmy R.; and Burcham, James T., 4,709,355, Cl. 367-16.000.

Syohda, Shuji: *See*—
Sugiyama, Shuji; Syohda, Shuji; and Kuniyoshi, Shinji, 4,690,529, Cl. 353-122.000.

Syomura, Eiichi: *See*—
Takenoya, Hideaki; Syomura, Eiichi; and Inamori, Mikio, 4,649,845, Cl. 112-439.000.

Syperski, Thomas D.: *See*—
DiFrank, Frank J.; Locke, Ralph J.; and Syperski, Thomas D., 4,662,965, Cl. 156-215.000.

Sypula, Donald S.: *See*—
McAneney, T. Brian; Loutfy, Rafik O.; Mammino, Joseph; Nichol-Landry, Deborah J.; and Sypula, Donald S., 4,711,833, Cl. 430-131.000.

Syquest Technology: *See*—
Toldi, George; Nigam, Anil; Crain, Ronald; and Mercurio, Dominic, 4,683,506, Cl. 360-105.000.

Syracuse University: *See*—
Friedman, Alexander A.; and Podolak, Peter L., 4,690,755, Cl. 210-96.100.
Honig, Arnold, 4,642,206, Cl. 264-0.500.

Syred, Nicholas; and Biffin, Martin, to Coal Industry (Patents) Limited. Classification and/or grading. 4,634,456, 1-6-87, Cl. 55-52.000.

Syrek, Edward J., III. Back saver. 4,688,793, 8-25-87, Cl. 272-93.000.

Syrek, Gerald M.: *See*—
McDermott, Peter B.; and Syrek, Gerald M., 4,667,854, Cl. 222-101.000.

Syrett, Barry A.; and Kennard, Paul A., to Northern Telecom Limited. Microwave bandpass filters including dielectric resonators mounted on a suspended substrate board. 4,686,496, 8-11-87, Cl. 333-202.000.

Syrett, Barry C.; and McKubre, Michael C. H., to Electric Power Research Institute, Inc. Device for in-si u monitoring of corrosion rate of cathodically polarized metals. 4,658,365, 4-14-87, Cl. 364-496.000.

Syria, Roland L.; Purrett, John J.; and Jefferson, Eric, to Xermac, Inc. Electrical discharge machining apparatus including gap condition detection circuitry. 4,634,827, 1-6-87, Cl. 219-69.00G.

Syrigos, Harry, to Alpha Industries, Inc. Backfire antenna feeding. 4,673,945, 6-16-87, Cl. 343-755.000.

Syring, Milo J. Gondola dolly. 4,699,391, 10-13-87, Cl. 280-79.10A.

Syrinx Innovations Limited: *See*—
Strachan, John S., 4,689,992, Cl. 73-505.000.

Syryamin, Jury N.: *See*—
Kostylev, Alexandr D.; Syryamin, Jury N.; Smolyanitsky, Boris N.; Boginsky, Vladimir P.; Terskov, Alexei D.; Mjuntser, Elena G.; and Petreev, Anatoly M., 4,653,596, Cl. 173-135.000.
Kostylev, Alexandr D.; Boginsky, Vladimir P.; Smolyanitsky, Boris N.; Syryamin, Jury N.; Danilov, Boris B.; Kogan, David I.; and Saveliev, Vyacheslav N., 4,709,768, Cl. 175-296.000.

Systecon Inc.: *See*—
Euson, Thomas G., 4,650,003, Cl. 169-60.000.

System Homes Company, Ltd.: *See*—
Yoshino, Hozo; Koshi, Mitsuo; and Sumiyoshi, Osamu, 4,634,952, Cl. 318-811.000.

System Material Handling Company: *See*—
Gawlik, Robert F.; and Eccles, Timothy C., 4,643,511, Cl. 339-231.000.

Systemate B.V.: *See*—
Hazenbroek, Jacobus E.; Verrijp, Bastiaan; and Wallbridge, William L., 4,682,386, Cl. 17-46.000.

Systemic Nutrigation Concepts: *See*—
Martinez, Egmont U.; Martinez, Jesus G.; and Harrell, Gary W., 4,651,468, Cl. 47-80.000.

Systems Development Corporation: *See*—
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Systems Efficiency Limited: *See*—
Williams, Colin W. F., 4,702,728, Cl. 474-148.000.

Systems Engineering & Manufacturing Corp.: *See*—
Fishman, Herbert; and Rogers, Alvin J., 4,678,169, Cl. 269-46.000.

Systems and Support, Incorporated: *See*—
Jahr, Ronald S.; and Cowell, Thomas H., 4,707,852, Cl. 379-107.000.

Systemteknik AB: *See*—
Holm, Lauri J., 4,685,526, Cl. 177-211.000.

Systron Donner Corporation: *See*—
Hobbs, Larry P.; and Morris, Harold D., 4,651,075, Cl. 318-651.000.

Sytek, Inc.: *See*—
Gang, Joseph M.; and Bain, Mitchell B., 4,639,921, Cl. 371-53.000.

Syuku, Sigekazu: *See*—
Yamori, Tsunefumi; Syuku, Sigekazu; and Fujioka, Hironari, 4,647,951, Cl. 346-200.000.

Syutoo, Toshiyuki: *See*—
Ito, Motoya; Takahashi, Noriyoshi; Watanabe, Masatoshi; Abukawa, Toshimi; Seya, Takeshi; Kainuma, Hiroshi, and Syutoo, Toshiyuki, 4,704,789, Cl. 29-609.000.

Syva Company: *See*—
DiNello, Robert K., 4,663,278, Cl. 435-7.000.

Syvarth, Anne S.; Gordin, Harvey H.; Early, Paul D., Jr.; Needs, Kathy A.; and Perfetti, Thomas A., to R. J. Reynolds Tobacco Company. Method and system for effecting sensory evaluation of a smoking product. 4,711,255, 12-8-87, Cl. 131-330.000.

Syzdykov, Askar K.: *See*—
Aubakirov, Marat T.; Limanov, Esengali L.; Syzdykov, Askar K.; Abdrazakov, Ravil S.; Tleuov, Murat G.; Khazhuer, Vladimir S.; Buzdov, Ruslan D.; and Khashirov, Vladislav K., 4,681,174, Cl. 175-330.000.

Szabados, Andreas. Test specimen container for pasty specimen material. 4,678,559, 7-7-87, Cl. 209-17.000.

Szablewski, Piotr; and Sauerschell, Wolfgang, to VDO Adolf Schindling AG. Injection valve. 4,708,289, 11-24-87, Cl. 239-125.000.

Szablikowski, Klaus: *See*—
Lange, Werner; Hohl, Frank; and Szablikowski, Klaus, 4,703,087, Cl. 525-161.000.

Szabo, Anthony W.; and Hunt, Robert E., to Dallex Medical Sciences, Inc. Fail-safe mechanical drive for syringe. 4,676,122, 6-30-87, Cl. 74-625.000.

Szabo, Attila. Cartridge for frangible projectile. 4,686,905, 8-18-87, Cl. 102-444.000.

Szabo, Bela; Vagvolgyi, Jeno; and Feher, Istvan, to MTA Kozponti Fizikai Kutato Intezete. Current-impulse converter circuit with variable time constant. 4,694,208, 9-15-87, Cl. 307-603.000.

Szabo, Gabor: *See*—
Heja, Gergely; Korbonits, Dezso; Palosi, Endre; Kiss, Pal; Gonczi, Csaba; Szvoboda nee Kanzel, Ida; Maryanyos, Ede; Kun, Judit; Szomor nee Wundele, Maria; Szabo, Gabor; Kallay, Tamas; and Ledniczky, Laszlo, 4,709,081, Cl. 560-100.000.

Szabo, Josef: *See*—
Zverina, Karel; Tluchor, Denek; Szabo, Josef; Polidor, Jaromir; and Kroupa, Petr, 4,639,570, Cl. 219-121.0PP.

Szabo, Jozsef: *See*—
Szucs, Laszlo; Szabo, Jozsef; and Tasnadi, Csaba, 4,648,443, Cl. 165-181.000.

Szabo, Lajos: *See*—
Szantay, Csaba; Honty, Katalin; Szabo, Lajos; Keve, Tibor; and Acs, Tibor, 4,659,816, Cl. 540-478.000.

Szabo, Paul, to Digana Ag. Method of and apparatus for the determination of the thermal insulating properties of building walls. 4,647,221, 3-3-87, Cl. 374-44.000.

Szabo, Zsolt, to Dr. Ing. H.C.F. Porsche Aktiengesellschaft. Ferromagnetic multiple shell core for electric coils. 4,675,638, 6-23-87, Cl. 336-83.000.

Szabolcsi, Tamas: *See*—
Szekely, Istvan; Botar, Sandor; Dolgos nee Kekesi, Krisztina; Bertok, Bela; Gajary, Antal; Szabolcsi, Tamas; Kovacs, Gabor; and Lovasz nee Gaspar, Marianna, 4,638,002, Cl. 514-212.000.

Szadkowski, Stanislav, to International Industrial Engineering SPRL. Device for introducing and exchanging a casting tube. 4,669,528, 6-2-87, Cl. 164-437.000.

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Antal nee Magyar, Zsuzsanna; Beller, Eva; Boross, Laszlo; Daroczi, Ivan; Kalman, Miklos; Suto, Imre; and Szajani, Bela, 4,670,390, Cl. 435-180.000.
Boross, Laszlo; Dala nee Rezneki, Erzsebet; Kiss nee Deer, Aranka; Szajani, Bela; and Tetzli, Arpad, 4,650,762, Cl. 435-180.000.

Szakacs, Gabor L.: *See*—
Kaltenbach, Karl W.; Rettew, Stephen; Rudy, John O.; and Szakacs, Gabor L., 4,649,028, Cl. 422-100.000.
Kaltenbach, Karl W.; Rettew, Stephen; Rudy, John O.; and Szakacs, Gabor L., 4,705,668, Cl. 422-82.000.

Szal, Andrzej: *See*—
Przybyla, Janusz; Gozdziewicz, Zygmunt; Szal, Andrzej; Zub, Ryszard; and Maczynski, Andrzej, 4,656,719, Cl. 29-516.000.

Szalanski, Scott: *See*—
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Szalay, Otto: *See*—
Nagy, Zoltan; Hupka, Gyorgy; Szalay, Otto; and Kovacs, Attila, 4,681,531, Cl. 431-181.000.

Szalay, Zoltan: *See*—
Egeto, Csaba; Szalay, Zoltan; Dorombosy, Bela; and Krauz, Karoly, 4,668,110, Cl. 384-536.000.

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Szalvay, Laszlo, to Raychem Corporation. Pipe repair sleeve apparatus and method of repairing a damaged pipe. 4,713,870, 12-22-87, Cl. 29-402.090.

Szalvay, Laszlo: *See*—
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Szamitastechnikai Koordinacios Intezet: *See*—
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Szamosi, Daniel: *See*—
Zagyvai, Istvan; Gal, Andras; Merai, Jozsef; and Szamosi, Daniel, 4,675,114, Cl. 210-666.000.

Szantay, Csaba; Honty, Katalin; Szabo, Lajos; Keve, Tibor; and Acs, Tibor, to Richter Gedeon Vegyeszeti Gyar Rt. Process for the preparation of dimeric alkaloids. 4,659,816, 4-21-87, Cl. 540-478.000.

Szarka, David D., to Halliburton Company. Double-grip thermal expansion screen hanger and running tool. 4,669,538, 6-2-87, Cl. 166-120.000.

Szarka, David D., to Halliburton Company. Apparatus for setting a high temperature packer. 4,697,640, 10-6-87, Cl. 166-120.000.

Szarz, Richard A.: *See*—
Paul, Albert P.; Szarz, Richard A.; and Card, Roger J., 4,711,669, Cl. 106-38.510.

Szasz, Andras: *See*—
Kaldor, Istvan; Szasz, Andras; Vegh nee Ba, Ilona; Heizer, Jozsef; and Behedek nee Haraszin, Eva, 4,656,290, Cl. 548-306.000.

...zasz, Tibor: *See*—
Himmetsberger, Alois; Pavlovec, Radko; Wittmann, Heinz; Wuerthner, Hubert; Szasz, Tibor; Liedl, Kurt; and Erdec, Roland, 4,681,339, Cl. 280-633.000.

...zatkowski, Paul R.: *See*—
Louderback, Allan L.; and Szatkowski, Paul R., 4,677,075, Cl. 436-12.000.
Louderback, Allan L.; and Szatkowski, Paul R., 4,703,013, Cl. 436-12.000.

...zatmari, Sandor: *See*—
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...szczepanek, Andre; and Hubbins, Stephen, to Texas Instruments Incorporated, Token ring access control protocol circuit, 4,674,086, 6-16-87, Cl. 370-86.000.

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Hubbins, Stephen J.; England, David G.; Szczepanek, Andre; and Norvall, David, 4,698,753, Cl. 364-200.000.

...szczepanski, Harry, Golf club with converging directional indicia, 4,659,083, 4-21-87, Cl. 273-164.000.

...szczepanski, Henry, to Ciba-Geigy Corporation, 2-amino-4-cyclopropyl-1,3,5-triazines as intermediates for the production of herbicidally active N-(cyclopropyl-triazinyl)-N'-arylsulfonyl ureas, 4,670,559, 6-2-87, Cl. 544-211.000.

...szczepanski, Henry: *See*—
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Bose, Bimal K.; and Szczesny, Paul M., 4,713,534, Cl. 318-685.000.

...ze, Benjamin C.; to Du Pont de Nemours, E. I., and Company, Uniform polymeric filaments, 4,691,003, 9-1-87, Cl. 528-308.100.

...zeberenyi nee Szalay, Katalin: *See*—
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..., Donald M., to Applied Intelligent Systems, Inc., Inspection ...mination device, 4,677,531, 6-30-87, Cl. 362-32.000.

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...th, Jeno; Szeles, Jozsef; and Egenhoffer, Otto, 4,676,918, Cl. 252-70.000.

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Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jeges, Ferenc; Horvath, Gyula; and Tomori nee Jozsi, Eva, 4,703,036, Cl. 514-18.000.

Szemeredi, Robert: *See*—
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Szente, Andre: *See*—
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Foley, Donald E.; Gipp, Gregory H.; Schwader, William G.; Sells, Craig L.; Smittkamp, James A.; Stahl, Alan L.; and Szentes, John F., 4,635,739, Cl. 177-45.000.

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Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo; and Heil, Balint, 4,710,323, Cl. 260-543.00R.

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Old, Lloyd J.; Lloyd, Kenneth O.; Oettgen, Herbert F.; Whitmore, Willet F.; Szkudlarek, Jerzy; Finstad, Connie L.; Morrissey, Donna; Ogata, Shun-ichiro; and Ueda, Ryuzo, 4,650,756, Cl. 435-68.000.

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Miller, Gayle W.; Szluk, Nicholas J.; McKinley, William W.; Hayworth, Hubert O.; and Maheras, George, 4,654,121, Cl. 156-653.000.
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Szombathelyi, Zsolt: *See*—
Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo ; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.

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Szonyi, Laszlo, to International Business Machines Corporation. System for automatically calibrating a robot. 4,642,781, 2-10-87, Cl. 364-513.000.

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Szporny, Laszlo: *See*—
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Sztaba, Lennard: *See*—
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Szuchy, Nicholas C., to Grumman Aerospace Corporation. Fiber optic aircraft load relief control system. 4,692,610, 9-8-87, Cl. 250-227.000.

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Szudarek, Robert G.: *See*—
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Szudy, James E.: *See*—
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Szumierz, Anthony J.; and Chmiela, Frank P., to Molex Incorporated. Apparatus for electrical harness manufacture. 4,660,279, 4-28-87, Cl. 29-747.000.

Szuminski, Gary F.; and Nightingale, Douglas J., to Rolls-Royce Inc. Vectorable nozzles for aircraft. 4,713,935, 12-22-87, Cl. 60-229.000.

Szurkowski, Edward S.: *See*—
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Shimada, Makoto, 4,650,251, Cl. 297-452.000.
Shimada, Makoto, 4,715,916, Cl. 156-245.000.
Shirai, Tamotsu; and Kuroyanagi, Toshiya, 4,662,674, Cl. 297-113.000.
Takagi, Genjiro, 4,636,002, Cl. 297-319.000.
Yajima, Yutaka; and Matsushita, Kazuyoshi, 4,634,037, Cl. 228-6.100.
Yokoyama, Shoh, 4,673,215, Cl. 297-452.000.
Tachikawa Spring Co. Ltd: *See*—
Yokota, Masaaki, 4,640,549, Cl. 297-410.000.
Tachikawa, Takeyoshi; and Ohkubo, Shigeo, to Tachikawa Corporation. Venetian blind. 4,643,238, 2-17-87, Cl. 160-168.00R.
Tachiki, Shigeo; Shibuya, Ikutoshi; Fujikura, Makoto; and Kakuta, Atsushi, to Hitachi, Ltd.; and Hitachi Chemical Co., Ltd. Electrophotographic plate having a charge generating layer containing an organic pigment for charge generation. 4,657,834, 4-14-87, Cl. 430-58.000.
Tachino, Tomio: *See*—
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Tachita, Ryobun; and Teranishi, Akio, to Matsushita Electric Industrial Co., Ltd. Diversity receiver. 4,696,058, 9-22-87, Cl. 455-277.000.
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Tacito, Louis D.: *See*—
Kerins, Gerard J.; Collette, Wayne N.; Beck, Martin H.; Clark, Richard E.; Harry, Ieuan L.; Krishnakumar, Suppayan; Miller, Bryan H.; Nichols, Richard C.; Piccioli, David; Tacito, Louis D.; and Worsowicz, Eileene M., 4,665,682, Cl. 53-452.000.
Tack, Carl E., Jr., to Avondale Industries, Inc. Short stroke press with automated feed mechanism. 4,653,311, 3-31-87, Cl. 72-443.000.
Tack, Hans, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Tool-head/tool-holder coupling. 4,715,753, 12-29-87, Cl. 409-234.000.
Tack, Robert D.; Pearce, Sarah L.; and Rossi, Albert, to Exxon Chemical Patents Inc. Middle distillate compositions with improved cold flow properties. 4,713,088, 12-15-87, Cl. 44-62.000.
Tack, Rufin; and Eggermont, Marc, to N.V. Bekaert S.A. Spool. 4,715,556, 12-29-87, Cl. 242-118.600.
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Tacker, Willis A., Jr.; Bourland, Joe D.; Babbs, Charles F.; and Geddes, Leslie A., to Medtronic, Inc. Sequential-pulse, multiple pathway defibrillation method. 4,708,145, 11-24-87, Cl. 128-419.00D.
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Pfeiffer, Arthur M.; Tacklind, Christopher A.; Haas, Michael D.; and Zeiszler, James M., 4,667,959, Cl. 273-149.00R.
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Cortopassi, Jeffery J., 4,634,023, Cl. 206-459.000.
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Knutti, James W.; Allen, Henry V.; Petersen, Kurt E.; and Kowalski, Carl R., 4,680,606, Cl. 357-26.000.
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Tada, Atsushi. Manually operated trigger type dispenser. 4,691,849, 9-8-87, Cl. 222-382.000.
Tada, Haruo; and Nakada, Akiyoshi, to Matsushita Electric Industrial Co., Ltd. Industrial robot. 4,697,978, 10-6-87, Cl. 414-729.000.
Tada, Hideaki, to Mitsubishi Denki Kabushiki Kaisha. Inverter controlling method. 4,695,938, 9-22-87, Cl. 363-37.000.
Tada, Hideki; Ito, Michio; Tanaka, Kazuki; Kume, Nobuyuki; Takei, Tetsuya; and Kisu, Hiroki, to Canon Kabushiki Kaisha. Cleaning device. 4,674,865, 6-23-87, Cl. 355-15.000.
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Tada, Hiroshi: *See*—
Kitta, Toshiyuki; Tada, Hiroshi; and Ishikawa, Keizo, 4,648,224, Cl. 52-223.00R.
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Toyama, Akio; Matsumoto, Shuso; and Tada, Kazunori, 4,646,109, Cl. 346-134.000.
Tada, Kohji: *See*—
Kawasaki, Akihisa; Tada, Kohji; Kotani, Toshihiro; and Miyazawa, Shintaro, 4,684,515, Cl. 423-495.000.
Tada, Koji; and Kuhara, Yoshiki, to Sumitomo Electric Industries, Ltd. Holographic light guide. 4,662,711, 5-5-87, Cl. 350-96.120.
Tada, Koji; Tatsumi, Masami; Kotani, Toshihiro; and Sawada, Shinichi, to Sumitomo Electric Industries, Ltd. Method for growing a single crystal. 4,678,534, 7-7-87, Cl. 156-607.000.
Tada, Kunio; Nishiwaki, Yoshikazu; and Matsuoka, Shunji, to Sumitomo Electric Industries, Ltd. Light modulation device. 4,685,763, 8-11-87, Cl. 350-96.140.
Tada, Masahito: *See*—
Katto, Takayuki; Tada, Masahito; Kouyama, Toshitaka; and Iizuka, Yo, 4,659,789, Cl. 525-537.000.
Tada, Mikio: *See*—
Hayashi, Kazuhiko; Iwata, Masayosi; Tada, Mikio; and Mizuno, Hirotoshi, 4,659,882, Cl. 200-16.00R.
Tada, Mitsuro, to Sharp Kabushiki Kaisha. Automatic document feed type electrophotographic copying machine. 4,634,265, 1-6-87, Cl. 355-3.0SH.
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Hotta, Yoshiji; Kuroda, Kunishige; Kimura, Hiroshi; Hara, Nobuhiro; and Tada, Naofumi, 4,692,560, Cl. 174-15.0CA.
Tada, Nobuhiko: *See*—
Hammerling, Ulrich; Koo, Gloria C.; and Tada, Nobuhiko, 4,680,258, Cl. 435-7.000.
Tada, Osamu: *See*—
Yamaguchi, Isao; and Tada, Osamu, 4,671,085, Cl. 70-248.000.
Tada, Satomi: *See*—
Kumasaka, Sadao; Tada, Satomi; Fujii, Osamu; Yoneyama, Goro; and Idei, Masao, 4,666,393, Cl. 425-204.000.
Tada, Satoru: *See*—
Shimada, Tatsuo; Chida, Yoshinori; and Tada, Satoru, 4,643,596, Cl. 400-121.000.
Tada, Seitchi; and Hosoai, Yasuhisa, to Du Pont-Mitsui Polychemicals Co., Ltd. Vinyl chloride resin composition and process for production thereof. 4,677,163, 6-30-87, Cl. 525-190.000.
Tada, Seiji: *See*—
Iida, Muneo; Simizu, Jyosei; Suzuki, Masami; Okamoto, Nobuyuki; Kazama, Toshinori; Honda, Masanobu; Mochida, Jiro; Tada, Seiji; and Fujii, Masayuki, 4,660,110, Cl. 360-98.000.
Tada, Shoji; and Ibuki, Koji, to Mitsubishi Denki Kabushiki Kaisha. Arc detector for gas insulated electrical apparatus. 4,685,018, 8-4-87, Cl. 361-1.000.
Tada, Sugihiko: *See*—
Okita, Tsutomu; and Tada, Sugihiko, 4,664,734, Cl. 156-231.000.
Tada, Takashi: *See*—
Miyazaki, Kenji; Hagio, Tsuyoshi; Ogawa, Ichitaro; Yoshida, Hisayoshi; Kobayashi, Kazuo; Kashima, Kazutsugu; Tada, Takashi; Hayashi, Yoichiro; and Abe, Wataru, 4,637,884, Cl. 252-12.000.

Tada, Tatsumi: *See*—
Ishizaki, Naoki; Nunotani, Sadao; Tada, Tatsumi; Uehara, Kazuo; and Akushichi, Shuki, 4,646,622, Cl. 91-446.000.

Tada, Teruo: *See*—
Kondo, Kazuo; Ishiguro, Nobuya; and Tada, Teruo, 4,695,491, Cl. 428-35.000.

Tada, Yoshio: *See*—
Shimizu, Yoshiro; and Tada, Yoshio, 4,637,964, Cl. 428-694.000.
Shimokawa, Masao; and Tada, Yoshio, 4,659,415, Cl. 156-379.700.

Tada, Yukio; Umeno, Hiroshi; Sugimoto, Yasuhiro; and Oka, Hideo, to Honda Giken Kogyo Kabushiki Kaisha. Outboard motor. 4,692,123, 9-8-87, Cl. 440-77.000.

Tada, Yukio: *See*—
Koda, Akihide; Hori, Mikio; Yasumoto, Mitsugi; Matsuura, Naosuke; Yamawaki, Ichiro; and Tada, Yukio, 4,670,583, Cl. 562-426.000.

Tadaaki Sakai: *See*—
Nagoshi, Kazunori, 4,654,217, Cl. 426-524.000.
Nagoshi, Kazunori, 4,657,768, Cl. 426-524.000.

Tadachi, Akio; and Sato, Makoto, to Alps Electric Co., Ltd. Waveguide-to-coaxial converter. 4,652,839, 3-24-87, Cl. 333-26.000.

Tadachi, Akio, to Alps Electric Co., Ltd. Mounting and ground conductor arrangement for a microwave resonance circuit device. 4,654,606, 3-31-87, Cl. 331-99.000.

Tadachi, Akio; and Takayama, Akira to Alps Electric Co., Ltd. Oscillator having improved coupling between stripline and dielectric resonator. 4,673,895, 6-16-87, Cl. 331-99.000.

Tadano, Eiji: *See*—
Kaneko, Yujiro; and Tadano, Eiji, 4,663,850, Cl. 33-1.0BB.

Tadanobu, Fujimoto: *See*—
Seijiro, Sasai; Tadanobu, Fujimoto; and Kyozo, Tsukamoto, 4,654,304, Cl. 435-240.000.

Tadao, Takahashi, to Oki Electric Industry Co., Ltd. Power-down circuits for dynamic MOS integrated circuits. 4,686,386, 8-11-87, Cl. 307-269.000.

Tadashi, Hirata; Yoshirou, Satou; and Yoshimitsu, Tsutsui, to Amada Company, Limited. Multiple processing machine. 4,682,401, 7-28-87, Cl. 29-568.000.

Tadauchi, Masaharu; Inuzuka, Tatsuki; Hirane, Hideo; and Sato, Kunio, to Hitachi, Ltd. Recording apparatus. 4,654,677, 3-31-87, Cl. 346-153.100.

Tadauchi, Masaharu: *See*—
Inoue, Yasuo; and Tadauchi, Masaharu, 4,634,885, Cl. 250-578.000.
Nakamura, Koozoo; Hamada, Nagaharu; Tadauchi, Masaharu; Kozima, Yasuyuki; Suemori, Noboru; and Kouno, Takamitu, 4,694,351, Cl. 358-256.000.
Shimada, Satoshi; Kawakami, Kanji; Tadauchi, Masaharu; and Nishihara, Motohisa, 4,689,652, Cl. 357-30.000.

Taddei, Andre. Injection syringe. 4,664,656, 5-12-87, Cl. 604-241.000.

Taddei-Contreras, Fernando; Rodriguez-Tovar, Santiago; and Cardenas-Franco, Luis, to Vitro Tec Fideicomiso. Automatic glass container rejector. 4,675,042, 6-23-87, Cl. 65-158.000.

Taddei-Contreras, Fernando: *See*—
Cardenas-Franco, Luis; and Taddei-Contreras, Fernando, 4,708,727, Cl. 65-29.000.

Taddei, Lorenzo, to Comet - Construzione Occhiali Metallo S.p.A. Eyeglass nosepiece holder. 4,681,411, 7-21-87, Cl. 351-137.000.

Tadeka, Makoto: *See*—
Oonishi, Akiyoshi; Tanaka, Kenji; Tadeka, Makoto; Konno, Kazuhiko; and Saito, Masaki, 4,694,102, Cl. 562-426.000.

Tadiello, Mario, to La Batteria di M. Tadiello S.r.l. Plug for cells of electrical storage batteries. 4,696,874, 9-29-87, Cl. 429-64.000.

Tadiran Israel Electronics Industries Ltd.: *See*—
Reppen, Gyora, 4,673,831, Cl. 307-300.000.

Tadlock, John W.: *See*—
Thomsen, Jack W.; and Tadlock, John W., 4,654,142, Cl. 210-232.000.

Tadokoro, Eiichi: *See*—
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,649,072, Cl. 428-212.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,686,139, Cl. 428-323.000.
Ryoke, Katsumi; Takahashi, Masatoshi; Yoneyama, Takashi; Nishikawa, Yasuo; and Tadokoro, Eiichi, 4,693,929, Cl. 428-323.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,696,858, Cl. 428-323.000.
Yamaguchi, Nobutaka; Miyoshi, Takahito; Okutu, Toshimitu; Hibino, Noburo; Tadokoro, Eiichi; and Fujiyama, Masaaki, 4,650,720, Cl. 428-480.000.
Yamaguchi, Nobutaka; Iida, Shinobu; Utsumi, Masahiro; Nasu, Norio; and Tadokoro, Eiichi, 4,663,217, Cl. 428-212.000.

Tadokoro, Joji: *See*—
Araki, Seiji; and Tadokoro, Joji, 4,667,254, Cl. 358-293.000.
Araki, Seiji; and Tadokoro, Joji, 4,670,794, Cl. 358-293.000.

Tadokoro, Minoru: *See*—
Takahashi, Mutsuhiko; Tadokoro, Minoru; and Matsuzaki, Hiroshi, 4,664,095, Cl. 126-96.000.

Tadokoro, Tomoo; Okimoto, Haruo; and Akagi, Toshimichi, to Mazda Motor Corporation. Supercharged engine. 4,702,219, 10-27-87, Cl. 123-559.000.

Tadros, Safwat E., to Du Pont de Nemours, E. I., and Company. Process for laminating film to woven fabric. 4,664,738, 5-12-87, Cl. 156-275.100.

Tae-Ho, Suh, to Fritz Chemical Company. Expandable wand pet toy. 4,712,510, 12-15-87, Cl. 119-29.000.

Taeger, Tilman: *See*—
Pfleiderer, Ernst; Taeger, Tilman; and Wick, Gertrud, 4,636,222, Cl. 8-94.160.

Taff, Barry E.; and Stoller, Kenneth P. Luminescent tongue depressor. 4,643,172, 2-17-87, Cl. 128-16.000.

Taflove, Allen; Sresty, Guggilam C.; and Umashankar, Korada, to Uentech Corporation. Method and apparatus for enhancing liquid hydrocarbon production from a single borehole in a slowly producing formation by non-uniform heating through optimized electrode arrays surrounding the borehole. 4,662,438, 5-5-87, Cl. 166-245.000.

Taflove, Allen: *See*—
Bridges, Jack E.; Taflove, Allen; and Sresty, Guggilam C., 4,645,004, Cl. 166-248.000.
Bridges, Jack E.; Dev, Harsh; Snow, Richard H.; and Taflove, Allen, 4,670,634, Cl. 219-10.410.

Taft, Buckie A., to Steel Research Incorporated. Composite steel and concrete truss floor construction. 4,653,237, 3-31-87, Cl. 52-335.000.

Taft, Jeffrey D.; and Seymour, James O., Jr., to Westinghouse Electric Corp. Compact optical apparatus for tracking a path of movement of a tool along a line of travel on a workpiece. 4,683,493, 7-28-87, Cl. 358-101.000.

Taft, Jeffrey D., to Westinghouse Electric Corp. Range finding method and apparatus. 4,695,156, 9-22-87, Cl. 356-1.000.

Taft, Jeffrey D.: *See*—
Antoszewski, Richard S.; Sciulli, Frank J.; Taft, Jeffrey D.; and Clements, Jack W., 4,652,133, Cl. 356-376.000.

Taft, John R., to P.X. Industries, Inc. Low profile shelf lock. 4,666,117, 5-19-87, Cl. 248-243.000.

Taft, Phillip A.: *See*—
Reynolds, Desmond H. J.; and Taft, Phillip A., 4,693,273, Cl. 137-596.130.

Taga Electric Co., Ltd.: *See*—
Makabe, Kazunori; and Nakamura, Yoshiyuki, 4,671,149, Cl. 83-30.000.
Mishiro, Shoji, 4,635,483, Cl. 73-579.000.
Mishiro, Shoji, 4,652,786, Cl. 310-333.000.
Mishiro, Shoji, 4,697,117, Cl. 310-323.000.
Mishiro, Shoji, 4,703,214, Cl. 310-328.000.
Mishiro, Shoji, 4,705,980, Cl. 310-323.000.

Taga, Jun, to Mitsui & Co., Ltd., a part interest. Pleated and sealed filter cartridge with connected film. 4,680,118, 7-14-87, Cl. 210-493.100.

Taga, Kazumitsu: *See*—
Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, 4,637,145, Cl. 34-1.000.
Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; Sengoku, Koji; and Nagatome, Yoshiaki, 4,645,681, Cl. 426-634.000.
Sugisawa, Ko; Matsumura, Yasushi; Taga, Kazumitsu; and Hattori, Ryuichi, 4,664,924, Cl. 426-242.000.

Taga, Yukio, to Nippon Notion Kogyo Co., Ltd. Drive control in an apparatus for assembling fastener elements. 4,645,110, 2-24-87, Cl. 227-2.000.

Taga, Yukio, to Yoshida Kogyo K. K. Apparatus for assembling a pair of fastener elements. 4,698,905, 10-13-87, Cl. 29-798.000.

Taga, Yutaka; and Morisawa, Kunio, to Toyota Jidosha Kabushiki Kaisha. Hydraulic pressure control apparatus for use in automatic transmission. 4,660,693, 4-28-87, Cl. 192-0.075.

Taga, Yutaka; Morisawa, Kunio; Uno, Toshihiko; Ito, Masami; and Haneda, Takashi, to Toyota Jidosha Kabushiki Kaisha. Power take-off apparatus in automotive vehicle. 4,669,562, 6-2-87, Cl. 180-53.100.

Taga, Yutaka; and Morisawa, Kunio, to Toyota Jidosha Kabushiki Kaisha. Hydraulic control system for automatic transmission. 4,691,594, 9-8-87, Cl. 74-869.000.

Taga, Yutaka; Kubo, Seitoku; Kashihara, Yuji; Morisawa, Kunio; Takada, Mitsuru; and Nakamura, Yasunari, to Toyota Jidosha Kabushiki Kaisha. Four wheel drive vehicle slippage control device and method limiting center differential action according to input torque supplied thereto. 4,702,341, 10-27-87, Cl. 180-249.000.

Taga, Yutaka: *See*—
Fujiura, Kaiya; Hayakawa, Yoichi; Taga, Yutaka; and Nakamura, Shinya, 4,663,992, Cl. 74-869.000.
Harada, Yoshiharu; Taga, Yutaka; Nishikawa, Seiichi; Hayakawa, Yoichi; and Kawai, Masao, 4,688,449, Cl. 74-740.000.
Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,693,143, Cl. 74-866.000.
Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,708,032, Cl. 74-866.000.
Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,713,988, Cl. 74-868.000.
Hayakawa, Yoichi; Kawai, Masao; Taga, Yutaka; Watanabe, Kazuaki; and Harada, Yoshiharu, 4,679,450, Cl. 74-752.0A.
Hosono, Chihiro; Hayakawa, Yoichi; Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,673,072, Cl. 192-3.570.
Kobayashi, Koji; Sumiya, Koji; Taga, Yutaka; and Watanabe, Kazuaki, 4,693,353, Cl. 192-85.0AA.
Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,644,826, Cl. 74-866.000.
Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,648,289, Cl. 74-866.000.
Moroto, Shuzo; Sumiya, Koji; Watanabe, Kazuaki; Kubo, Seitoku; Kobayashi, Koji; and Taga, Yutaka, 4,714,146, Cl. 192-85.0AA.

Nakamura, Shinya; Kubo, Seitoku; and Taga, Yutaka, 4,693,081, Cl. 60-448.000.
Nakamura, Shinya; Kubo, Seitoku; and Taga, Yutaka, 4,702,083, Cl. 60-721.000.
Sumiya, Koji; Sakaguchi, Yoshikazu; Taniguchi, Takuji; Taga, Yutaka; and Shindo, Yoshio, 4,697,474, Cl. 74-733.000.
Tsukamoto, Kazumasa; Hayabuchi, Masahiro; Maeda, Koji; Watanabe, Kazuaki; and Taga, Yutaka, 4,693,348, Cl. 192-3.290.

Tagami, Katsutoshi; Tsuchiya, Yoshikazu; and Nakamura, Kazuo, to Honda Giken Kogyo Kabushiki Kaisha. Multiple communication system for vehicular bodies. 4,652,853, 3-24-87, Cl. 340-52.00F.

Tagami, Katsutoshi; Takahashi, Tsuneo; Yasui, Shinichiro; and Sugimura, Masao, to Honda Giken Kogyo Kabushiki Kaisha. Fixed range indicating system for use in a vehicle travel path indicating apparatus. 4,663,629, 5-5-87, Cl. 340-995.000.

Tagami, Kiyoshi: *See*—
Amemiya, Yoichi; Sogabe, Masaioyo; and Tagami, Kiyoshi, 4,697,114, Cl. 310-156.000.

Tagami, Tomoyuki, to Honda Giken Kogyo Kabushiki Kaisha. Damping force control device for vehicle damper. 4,697,824, 10-6-87, Cl. 280-701.000.

Tagami, Tomoyuki: *See*—
Asakura, Toshimitsu; and Tagami, Tomoyuki, 4,694,924, Cl. 180-68.300.
Tanaka, Osami; Tagami, Tomoyuki; and Tsunoda, Kazuhiko, 4,673,053, Cl. 180-227.000.

Tagashira, Yasuo: *See*—
Akiyama, Masashi; and Tagashira, Yasuo, 4,709,845, Cl. 228-17.000.

Tagawa, Koichi, to Maeda Industries, Ltd. Bicycle speed change lever assembly. 4,699,018, 10-13-87, Cl. 74-475.000.

Tagawa, Masayoshi: *See*—
Kikuma, Toshio; Matsumoto, Hiromi; Tagawa, Masayoshi; Kajiwara, Toshiyuki; Kimura, Tomoaki; Iida, Yoshihiko; and Yoshimoto, Kenichi, 4,700,312, Cl. 364-472.000.

Tagawa, Shigetaro: *See*—
Sugiyama, Masahiko; Sutou, Masatune; Murata, Mitsuru; Ooki, Minoru; and Tagawa, Shigetaro, 4,636,154, Cl. 418-97.000.

Tagawa, Susumu; Araki, Shoji; and Numata, Shinichi, to Sony Corporation. Cathode ray tube. 4,651,050, 3-17-87, Cl. 313-390.000.

Tagawa, Takao: *See*—
Nukushina, Etsuzi; Tagawa, Takao; and Nakai, Yoshiyuki, 4,669,861, Cl. 355-14.0TR.
Takai, Yasuhiro; Morimoto, Kenichi; Yoshida, Shigekazu; and Tagawa, Takao, 4,636,063, Cl. 355-68.000.

Tagawa, Takayuki: *See*—
Kazusa, Susumu; Nagamine, Masahiro; and Tagawa, Takayuki, 4,649,979, Cl. 152-527.000.

Tagawa, Toru: *See*—
Tanaka, Kinzi; Tagawa, Toru; Tanimoto, Yoshiji; and Okumura, Minoru, 4,660,219, Cl. 379-164.000.

Tagawa, Yuji, to Ikeda Bussan Co., Ltd. Vehicle seat. 4,699,426, 10-13-87, Cl. 297-378.000.

Tagaya, Nobuaki: *See*—
Maejima, Tsugio; Kobayashi, Wataru; Ashibe, Kenji; Tagaya, Nobuaki; and Sakurada, Satoshi, 4,664,775, Cl. 208-89.000.

Tagaya, Osamu: *See*—
Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, 4,655,973, Cl. 260-404.000.

Tagaya, Ryosaku, to Eisai Co., Ltd. Method and apparatus for detecting inferior container. 4,664,525, 5-12-87, Cl. 356-428.000.

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Tagg, James R. Apnea alarm systems. 4,657,026, 4-14-87, Cl. 128-721.000.

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Provolt, Monte B.; and Taggart, Peter C., 4,653,556, Cl. 144-3.00K.

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Taggi, Arthur J.: *See*—
El-Sayed, Lyla M.; and Taggi, Arthur J., 4,702,984, Cl. 430-115.000.
Hardam, William M.; Schadt, Frank L., III; and Taggi, Arthur J., 4,668,748, Cl. 526-240.000.

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Tago, Keiichiro, to Fuji Electric Co., Ltd. Reduced power displacement converting device using variable capacitance input. 4,636,712, 1-13-87, Cl. 323-349.000.

Tago, Kohichi: *See*—
Musha, Kazuhiko; Tago, Kohichi; and Kato, Hidetoshi, 4,641,196, Cl. 358-246.000.

Tago, Mamoru: *See*—
Fujiwara, Tsutomu; Matsuda, Susumu; Murakami, Keisuke; Ogawa, Izumi; Tago, Mamoru; Aoki, Chihiro; Doi, Masahiro; and Anno, Hiroshi, 4,711,443, Cl. 271-126.000.

Tago, Shigenobu: *See*—
Kushida, Yuichiro; Tago, Shigenobu; and Aoyagi, Tatsuhiro, 4,657,974, Cl. 525-73.000.

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Odawara, Kazuharu; and Tago, Yoshiaki, 4,665,457, Cl. 360-133.000.

Tagoku, Izumi: *See*—
Ohdake, Eishu; Oikawa, Tomohiro; Shimizu, Kenichi; Seto, Takashi; Ishikawa, Masahiro; Suzuki, Shigeru; and Tagoku, Izumi, 4,640,611, Cl. 352-77.000.

Taguchi, Hiromi, to Nissan Motor Co., Ltd. Cap mounting structure of the governor valve for automatic transmission. 4,712,708, 12-15-87, Cl. 220-319.000.

Taguchi, Ichiro: *See*—
Kirigaya, Tadayuki; and Taguchi, Ichiro, 4,705,375, Cl. 354-275.000.

Taguchi, Junji: *See*—
Hayase, Yoshio; Ichinari, Mitsuhiro; Taguchi, Junji; Ishiguro, Takeo; and Takahashi, Toshio, 4,681,874, Cl. 514-90.000.
Kariya, Akinori; Nabekawa, Shukichi; Hara, Yoshifusa; and Taguchi, Junji, 4,694,095, Cl. 558-186.000.

Taguchi, Katsuhiko, to Tokyo Juki Industrial Co., Ltd. Dust protection apparatus for a magnetic disc drive. 4,691,257, 9-1-87, Cl. 360-97.000.

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Murot, Shiyouzi; and Taguchi, Katsuhiko, 4,649,843, Cl. 112-270.000.

Taguchi, Kazuhisa: *See*—
Tsukada, Satoshi; and Taguchi, Kazuhisa, 4,649,097, Cl. 430-270.000.

Taguchi, Kazuo: *See*—
Nishio, Hisaharu; Taguchi, Kazuo; Okumura, Toshio; and Ebizawa, Akio, 4,668,477, Cl. 422-98.000.

Taguchi, Kenko, to NEC Corporation. Heterojunction avalanche photodiode. 4,684,969, 8-4-87, Cl. 357-30.000.

Taguchi, Masaaki; and Suenaga, Hitoshi, to Seiko Instruments & Electronics Ltd.; and Teikoku Chemical Industry Co., Ltd. Liquid crystal composition. 4,643,842, 2-17-87, Cl. 252-299.670.

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Taguchi, Masaaki: *See*—
Harada, Takamasa; Taguchi, Masaaki; and Ito, Kokichi, 4,662,721, Cl. 350-339.00R.
Harada, Takamasa; and Taguchi, Masaaki, 4,693,563, Cl. 350-350.00S.

Taguchi, Masahiro: *See*—
Hayashi, Yoshiro; Ekino, Yoshio; Yuki, Isamu; and Taguchi, Masahiro, 4,663,205, Cl. 428-36.000.
Sakakibara, Kazuo; Kuwakado, Satosi; Shimogawa, Toshiaki; Taguchi, Masahiro; Onimaru, Sadahisa; and Ina, Toshikazu, 4,669,780, Cl. 297-257.000.
Tashiro, Syuzaburo; Ina, Toshikazu; Taguchi, Masahiro; Onimaru, Sadahisa; Nakano, Osamu; and Kuno, Akira, 4,707,788, Cl. 364-424.000.
Tsuge, Noboru; Taguchi, Masahiro; Kuwakado, Satosi; and Kato, Kazutaka, 4,666,097, Cl. 242-55.000.
Uno, Toshio; Taguchi, Masahiro; Okuno, Toshimu; Kondo, Hirosato; Sotomura, Mikio; and Tsukamoto, Goro, 4,686,221, Cl. 514-254.000.

Taguchi, Masao, to Fujitsu Limited. Semiconductor memory device. 4,635,085, 1-6-87, Cl. 357-23.600.

Taguchi, Masao: *See*—
Sugisawa, Ko; Sekiguchi, Kazuya; Taguchi, Masao; Nakatani, Masayuki; and Iwata, Hitoshi, 4,690,699, Cl. 55-267.000.

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Taguchi, Masayuki: *See*—
Sadahiro, Toru; Taguchi, Masayuki; Tokiwa, Toru; and Terajima, Takeshi, 4,674,374, Cl. 83-62.100.

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Taguchi, Michio: *See*—
Hirano, Takashi; and Taguchi, Michio, 4,703,815, Cl. 177-25.000.

Taguchi, Nobuyoshi: *See*—
Imai, Akihiro; Shimizu, Tokihiko; and Taguchi, Nobuyoshi, 4,684,561, Cl. 428-141.000.

Taguchi, Osamu: *See*—
Wake, Masayoshi; Taguchi, Osamu; and Imaizumi, Mitsuyuki, 4,673,774, Cl. 174-94.00R.

Taguchi, Seiji: *See*—
Murakawa, Shigemi; Taguchi, Seiji; Nomura, Makoto; Takabe, Ryoji; Iwashita, Yoshiharu; and Ishii, Masahiro, 4,697,453, Cl. 73-290.00R.

Taguchi, Takao: *See*—
Matsumoto, Katsuaki; and Taguchi, Takao, 4,666,465, Cl. 51-293.000.
Okamura, Shigeru; and Taguchi, Takao, 4,641,034, Cl. 250-492.200.

Taguchi, Takasi; Ueno, Yoshiki; and Hattori, Tadashi, to Nippon Soken, Inc. Defrostable outside rear view mirror for an automobile. 4,634,242, 1-6-87, Cl. 350-588.000.

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Taguchi, Takasi: *See*—
Ueno, Yoshiki; Taguchi, Takasi; and Hattori, Tadashi, 4,696,548, Cl. 350-338.000.
Taguchi, Takeo, to Tomi Machinery Manufacturing Co., Ltd. Cooling and guiding device for thermoplastic synthetic resin films. 4,650,407, 3-17-87, Cl. 425-7_.00R.
Taguchi, Takeo: *See*—
Shinmoto, Jitsumi; and Taguchi, Takeo, 4,655,988, Cl. 264-566.000.
Taguchi, Tatsuya: *See*—
Tsunekawa, Tokuichi; Hosoe, Kazuya; Kinoshita, Takao; Kawabata, Takashi; Sakai, Shinji; and Taguchi, Tatsuya, 4,647,174, Cl. 354-402.000.
Taguchi, Tetsu; and Koshio, Tatsukichi, to NEC Corporation. Multipath canceller for cancelling a distortion caused to a radio frequency pulse by multipath transmission. 4,672,638, 6-9-87, Cl. 375-99.000.
Taguchi, Tetsu, to NEC Corporation. Variable frame length vocoder. 4,701,955, 10-20-87, Cl. 381-51.000.
Taguchi, Tetsuo; and Ishikawa, Takashi, to Pentel Kabushiki Kaisha. Inking apparatus for a wire matrix printer. 4,643,599, 2-17-87, Cl. 400-124.000.
Taguchi, Tetsuya: *See*—
Sakane, Toshio; Taguchi, Tetsuya; Ogawa, Masahiko; Tamura, Shuichi; and Tsunekawa, Tokuichi, 4,636,053, Cl. 354-403.000.
Taguchi, Toshimichi, to Sharp Kabushiki Kaisha. Membrane keyboard. 4,639,559, 1-27-87, Cl. 200-5.00A.
Taguchi, Toshio; and Matsuoka, Hitoshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of preventing multiple breakage of webs running in rotary press. 4,667,946, 5-26-87, Cl. 270-52.500.
Taguchi, Yoshinori; and Yamanami, Tsuguya, to Wacom Co., Ltd. Position detecting device. 4,678,870, 7-7-87, Cl. 178-19.000.
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Taguchi, Yoshinori: *See*—
Murakami, Azuma; and Taguchi, Yoshinori, 4,634,973, Cl. 324-207.000.
Murakami, Azuma; and Taguchi, Yoshinori, 4,658,373, Cl. 364-559.000.
Murakami, Azuma; Taguchi, Yoshinori; and Yamanami, Tsuguya, 4,697,244, Cl. 364-520.000.
Murakami, Azuma; Katsurahira, Yuji; and Taguchi, Yoshinori, 4,709,209, Cl. 324-207.000.
Taguchi, Yoshio: *See*—
Iwamoto, Hiroshi; and Taguchi, Yoshio, 4,665,867, Cl. 123-41.280.
Kato, Masayuki; Taguchi, Yoshio; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,683,275, Cl. 526-262.000.
Niwa, Tadashi; Kato, Masayuki; Taguchi, Yoshio; and Imai, Chihiro, 4,704,438, Cl. 525-333.300.
Taguchi, Yukiyasu: *See*—
Yasukawa, Masao; and Taguchi, Yukiyasu, 4,640,147, Cl. 74-409.000.
Tagushi, Kenko: *See*—
Sugimoto, Yoshimasa; Torikai, Toshitaka; and Tagushi, Kenko, 4,651,187, Cl. 357-30.000.
Tagushi, Masaaki: *See*—
Harada, Takamasa; Tagushi, Masaaki; and Iwasa, Koji, 4,715,688, Cl. 350-350.00S.
Tahara, Akihiro; and Kondo, Katsuya, to Sumitomo Metal Industries, Ltd. Method of controlling the strip shape and apparatus therefor. 4,633,693, 1-6-87, Cl. 72-8.000.
Tahara, Akinori; Enomoto, Hiromu; and Yasuda, Yasushi, to Fujitsu Limited. Semiconductor device. 4,680,600, 7-14-87, Cl. 357-15.000.
Tahara, Akinori: *See*—
Enomoto, Hiromu; Yasuda, Yasushi; Tahara, Akinori; and Kumagai, Masao, 4,703,202, Cl. 307-443.000.
Tahara, Kazuo: *See*—
Abukawa, Toshimi; Tahara, Kazuo; Takahashi, Noriyoshi; Tajima, Fumio; and Tomite, Tosio, 4,639,625, Cl. 310-154.000.
Abukawa, Toshimi; Tahara, Kazuo; Takahashi, Noriyoshi; and Tomite, Toshio, 4,703,210, Cl. 310-154.000.
Yamashita, Nobuyuki; Tahara, Kazuo; Watanabe, Masatoshi; and Takahashi, Noriyoshi, 4,657,818, Cl. 428-446.000.
Tahara, Kenji: *See*—
Mizuno, Keisuke; Kondou, Eiichirou; Tahara, Kenji; and Sekikawa, Ayako, 4,656,059, Cl. 427-345.000.
Tahara, Masato; Matsuura, Tooru; and Ryu, Toshihiko, to NEC Corporation. Cross-polarization interference canceller. 4,688,235, 8-18-87, Cl. 375-102.000.
Tahara, Shu: *See*—
Oka, Syotaro; Tahara, Shu; and Kobayashi, Junya, 4,696,796, Cl. 422-88.000.
Tahara, Teruji: *See*—
Yoshimura, Shushichi; Hiwatashi, Yasunori; Kobayashi, Hiromu; Yamazaki, Hozo; Nishino, Nobu; Tahara, Teruji; and Kobayashi, Hidenobu, 4,693,879, Cl. 423-461.000.
Tahara, Tomio, to Pola Chemical Industries Inc. Cosmetic holder casing. 4,666,043, 5-19-87, Cl. 206-581.000.
Tahara, Toshiro: *See*—
Yamazaki, Seiichi; Uchiyama, Kaoru; and Tahara, Toshiro, 4,662,554, Cl. 226-170.000.
Yamazaki, Seiichi; Uchiyama, Kaoru; and Tahara, Toshiro, 4,693,016, Cl. 34-52.000.
Tahara, Yasuteru; and Koike, Kazuyoshi, to Mitsubishi Rayon Co., Ltd. Method and equipment for detecting pinholes of hollow filament. 4,711,121, 12-8-87, Cl. 73-37.700.
Tahara, Yasuteru: *See*—
Koike, Kazuyoshi; and Tahara, Yasuteru, 4,639,130, Cl. 356-73.100.
Tahara, Yoshiyuki; Nagai, Michiko; Kogure, Katsura; Kawase, Shigeo; and Yamaguchi, Teruhito, to Nisshin Flour Milling Co., Ltd. Anti-ulcer compounds. 4,642,314, 2-10-87, Cl. 514-475.000.
Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, to Nisshin Flour Milling Co., Ltd. Isoprenylamine derivatives. 4,645,862, 2-24-87, Cl. 564-370.000.
Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, to Nisshin Flour Milling Co., Ltd. Isoprenylamine derivatives. 4,658,065, 4-14-87, Cl. 564-367.000.
Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, to Nisshin Flour Milling Co., Ltd. Isoprenylamine derivatives. 4,700,002, 10-13-87, Cl. 564-367.000.
Tahara, Yoshiyuki: *See*—
Takahashi, Toshihiro; Sueda, Noriyoshi; Tsuji, Masahiro; Tahara, Yoshiyuki; Koyama, Hiroyasu; Suzuki, Yoshikuni; Nagase, Masao; and Sugai, Toshiji, 4,659,833, Cl. 546-142.000.
Tahata, Masahiro; and Washizu, Hirokazu, to Kabushiki Kaisha Toshiba. Closed type compressor. 4,648,811, 3-10-87, Cl. 417-410.000.
Tahbaz, John A. Process for cleaning metal articles. 4,710,232, 12-1-87, Cl. 134-1.000.
Taheri, Syde A. Protective garment. 4,637,074, 1-20-87, Cl. 2-2.000.
Tahim, Raghbir S.: *See*—
Grote, Albert J.; Tahim, Raghbir S.; and Chang, Kai, 4,641,369, Cl. 455-327.000.
Tahon, Bernard: *See*—
Bernard, Jean-Claude; Chabrier, Patrick; Tahon, Bernard; Tesoriere, Jean-Marc; and Ortega, Domingo, 4,639,929, Cl. 373-120.000.
Tahtouh, Joseph F.: *See*—
Callens, E. Eugene, Jr.; Crowson, Leslie L., Jr.; Kobs, Robert P.; Tull, Herbert G., III; and Tahtouh, Joseph F., 4,706,360, Cl. 29-407.000.
Tai Cheong Blinds Company Ltd.: *See*—
Tung-Chow, Siu, 4,681,149, Cl. 160-134.000.
Tai, Henry T.; and Brown, Eric W., to I-Flow Corporation. Method for sequential intravenous infusion of multiple fluids. 4,687,475, 8-18-87, Cl. 604-248.000.
Tai, Henry T.: *See*—
Brown, Eric W.; and Tai, Henry T., 4,666,430, Cl. 604-141.000.
Brown, Eric W.; and Tai, Henry T., 4,701,159, Cl. 604-43.000.
Tai, Ho T., to Lever Brothers Company. Stable, free-flowing particulate adjuncts for use in detergent compositions. 4,713,193, 12-15-87, Cl. 252-91.000.
Tai, King L., to American Telephone and Telegraph Company, and AT&T Bell Laboratories. Integrated circuit chip-and-substrate assembly. 4,670,770, 6-2-87, Cl. 357-60.000.
Tai, King L.: *See*—
Frye, Robert C.; and Tai, King L., 4,703,288, Cl. 333-1.000.
Tai, Masahiko: *See*—
Tawada, Yoshihisa; Nakayama, Takehisa; Tai, Masahiko; and Ikuchi, Nozomu, 4,664,890, Cl. 422-186.050.
Tai, Masaru: *See*—
Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Konishi, Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Tai, Masaru; Watanabe, Yasuo; and Saikawa, Isamu, 4,673,_.3_ Cl. 540-222.000.
Taicher, Zvi; and Strikman, Shmuel, to Numar Corporation. Nuclear magnetic resonance sensing apparatus and techniques. 4,710,713, 12-1-87, Cl. 324-303.000.
Taig, Alistair G., to Allied Corporation. Disabling device for a brake control device. 4,641,733, 2-10-87, Cl. 192-13.00A.
Taig, Alistair G., to Allied Corporation. Universal joint having a bearing block with cylindrical receptacles. 4,643,699, 2-17-87, Cl. 464-112.000.
Taig, Alistair G. Transducer coupling. 4,655,092, 4-7-87, Cl. 73-862.350.
Taig, Alistair G., to Allied Corporation. Self-adjusting rack support. 4,691,583, 9-8-87, Cl. 74-422.000.
Taig, Alistair G., to Allied Corporation. Electric power assistance steering system. 4,715,462, 12-29-87, Cl. 180-79.100.
Taiho Industrial Co., Ltd.: *See*—
Koyase, Hiroyasu; Funaki, Kinsaku; and Morita, Atsuo, 4,642,138, Cl. 134-22.180.
Taiho Kogyo Co., Ltd.: *See*—
Kaku, Yoshihiro; and Otsu, Keiichiro, 4,662,267, Cl. 92-71.000.
Suzuki, Osamu; Asada, Eizi; and Fukuoka, Tatsuhiko, 4,698,179, Cl. 252-511.000.
Umemura, Hiroo, 4,638,568, Cl. 33-549.000.
Washimi, Kouichi; Shibata, Makoto; and Ugajin, Mitsuyuki, 4,645,213, Cl. 277-53.000.
Taiho Kogyo Kabushiki Kaisha: *See*—
Futamura, Kenichiro; Ohtsu, Keiichiro; Fukuoka, Tatsuhiko; Takenaka, Kenji; Itakura, Yoshio; and Koga, Hiroshi, 4,641,570, Cl. 92-71.000.
Futamura, Kenichiro; and Ohtsu, Keiichiro, 4,683,804, Cl. 92-71.000.
Taiho Pharmaceutical Company Limited: *See*—
Fujii, Setsuro; Unemi, Norio; and Takeda, Setsuo, 4,650,801, Cl. 514-274.000.

Fujii, Setsuro; Unemi, Norio; and Takeda, Setsuo, 4,652,570, Cl. 514-274.000.
Fujii, Setsuro; Ogawa, Kazuo; Hamakawa, Toshihiro; and Muranaka, Yoshiyuki, 4,675,428, Cl. 558-52.000.
Fujimura, Hajime; Hiramatu, Yasuzo; Yabuuchi, Takahiro; Hisaki, Masakatu; Takikawa, Katsuo; Honna, Takaji; Miyake, Hidekazu; and Kajitani, Makoto, 4,666,911, Cl. 514-255.000.
Koda, Akihide; Hori, Mikio; Yasumoto, Mitsugi; Matsuura, Naosuke; Yamawaki, Ichiro; and Tada, Yukio, 4,670,583, Cl. 562-426.000.
Micetich, Ronald G.; Yamabe, Shigeru; Tanaka, Motoaki; Yamazaki, Tomio; Ishida, Naobumi; and Kajitani, Makoto, 4,668,514, Cl. 424-114.000.
Ogawa, Kazuo; and Honna, Takaji, 4,714,765, Cl. 548-183.000.
Yamawaki, Ichiro; Ogawa, Kazuo; Ono, Naohiko; Honna, Takaji; Nagayama, Sekio; and Yasumoto, Mitsugi, 4,696,929, Cl. 514-253.000.
Taiho Seiki Kabushiki Kaisha: *See*—
Tsuge, Eiji; Yanagisawa, Taminori; Yamaguchi, Takaharu; and Fukatsu, Hiroshi, 4,634,338, Cl. 414-752.000.
Taijonlahti, Jorma; and Lindstrom, Mikko, to Lillbackan Konepaja. Method and device to move one or more clamp elements in an automatic sheet metal machining center, 4,658,682, 4-21-87, Cl. 83-13.000.
Taika, Tadao: *See*—
Furusawa, Hironobu; and Taika, Tadao, 4,670,498, Cl. 524-381.000.
Morita, Ichiro; Taika, Tadao; and Nakamura, Hidehiro, 4,694,049, Cl. 525-440.000.
Taikawa, Takashi, to Lin, Ting-I, a part interest. Slewing assembly, 4,647,936, 3-3-87, Cl. 343-702.000.
Taikisha Ltd.: *See*—
Morioka, Koji; Tojo, Hideaki; Kimura, Kazuo; and Yoshida, Susumu, 4,664,061, Cl. 118-663.000.
Tailer, Peter L.; and West, Jonathan H., to Windfarm Museum, Inc. Plunging cylinder liquid piston stirling engine, 4,676,066, 6-30-87, Cl. 60-517.000.
Taillades, Jacques: *See*—
Commeyras, Auguste; Taillades, Jacques; Brugidou, Jean; Mion, Louis; Sola, Regine; Pascal, Robert; Lasperas, Monique; and Rousset, Alain, 4,677,224, Cl. 562-557.000.
Taillandier, Yves J.: *See*—
Chizallet, Pierre J.; Drevet, Jean C.; Monnatte, Henri J.; Meillant, Henri P.; and Taillandier, Yves J., 4,672,544, Cl. 364-414.000.
Taillebois, Jacques: *See*—
Renaud, Jean-Marie; Gambs, Paul; Perrot, Jean-Claude; and Taillebois, Jacques, 4,713,541, Cl. 250-231.0SE.
Taillebois, Jacques A. J., to M.C.B. Device for optical code reading, by diascopy, and a process for manufacturing same, 4,644,158, 2-17-87, Cl. 250-231.0SE.
Taillefer, Pierre: *See*—
Mejia, Ezequiel; Taillefer, Pierre; and Nguyen, Phuc, 4,663,612, Cl. 340-572.000.
Tailor, Ramesh C.; and Utts, Bradley K., to Harshaw/Filtrol Partnership. Method and apparatus for forming a hermetic seal between glass and metal, 4,676,817, 6-30-87, Cl. 65-43.000.
Taipale, Dale L.; and Brome, John G., to Brandt, Inc. Electronic control for totaling denominations of several countries, 4,682,288, 7-21-87, Cl. 364-406.000.
Taira, Kazuo; Morofuji, Akihiko; Kobayashi, Seishichi; and Ueno, Hiroshi, to Toyo Seikan Kaisha Ltd. Metal vessel having circumferential side seam and adhesive primer for use in production thereof, 4,683,263, 7-28-87, Cl. 525-57.000.
Taira, Kazuo: *See*—
Matsuno, Kenji; Yasumuro, Hisakazu; Taira, Kazuo; Imatani, Tsuneo; and Toyoshima, Makoto, 4,685,989, Cl. 156-244.130.
Taira, Shigeo; and Ishibashi, Toru, to Diesel Kiki Co., Ltd. Distributor-type fuel injection pump with preliminary injection control device, 4,635,599, 1-13-87, Cl. 123-300.000.
Taira, Shigeo, to Diesel Kiki Co., Ltd. Fuel injection system for multi-cylinder internal combustion engines, 4,635,600, 1-13-87, Cl. 123-300.000.
Taira, Shigeo; and Ishibashi, Toru, to Diesel Kiki Co., Ltd. Distributor-type fuel injection pump having injection rate control function for internal combustion engines, 4,655,183, 4-7-87, Cl. 123-449.000.
Taira, Takeshi: *See*—
Nagoshi, Toshiharu; Totsuka, Hidehiko; Taira, Takeshi; Gotoh, Youkichi; and Senuma, Kazuya, 4,645,249, Cl. 293-102.000.
Taira, Taketoshi: *See*—
Shindou, Yoshio; Oka, Joji; Taira, Taketoshi; Miyauchi, Yujiro; and Yamazaki, Fumio, 4,705,726, Cl. 428-562.000.
Taira, Toshimitsu: *See*—
Yokoi, Nobuyuki; Taira, Toshimitsu; and Tsuyuguchi, Koji, 4,660,749, Cl. 222-600.000.
Tairaka, Yoshihiko, to Takeda Chemical Industries, Ltd. Flame-retardant polyurethane foam and polyol composition therefor, 4,649,163, 3-10-87, Cl. 521-107.000.
Tairaku, Seiichi: *See*—
Saita, Shigeaki; Takada, Hiroshi; and Tairaku, Seiichi, 4,644,224, Cl. 313-634.000.
Taisei Corporation: *See*—
Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,686,852, Cl. 73-61.00R.
Taisei Road Construction Co., Ltd.: *See*—
Mihara, Tohru; Sato, Kiyoshi; and Terauchi, Yasuo, 4,679,962, Cl. 404-126.000.
Mihara, Tohru, 4,682,909, Cl. 404-90.000.
Mihara, Tohru, 4,714,374, Cl. 404-91.000.
Taishi Foods Company Ltd.: *See*—
Kitamura, Keisuke, 4,677,247, Cl. 800-1.000.
Yan, Huang Y.; and Peng, Wang D., 4,664,919, Cl. 426-46.000.
Taisho Pharmaceutical Co., Ltd.: *See*—
Ikekawa, Nobuo, 4,711,881, Cl. 514-167.000.
Imagawa, Takashi; Yokoyama, Kazumasa; and Mizushima, Yutaka, 4,684,633, Cl. 514-78.000.
Migita, Yoshihiro; Eguchi, Tadashi; Kumazawa, Yukinari; Nakagami, Jozi; Amano, Takehiro; Sota, Kaoru; and Sakakibara, Jinsaku, 4,686,292, Cl. 544-343.000.
Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Kashimura, Masato; Watanabe, Yoshiaki; and Sota, Kaoru, 4,670,549, Cl. 536-7.400.
Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Watanabe, Yoshiaki; and Sota, Kaoru, 4,680,386, Cl. 536-7.400.
Watanabe, Naoharu; Numata, Kazuo; Yamagishi, Michio; Mizutani, Taku; Omura, Sadafumi; and Yamaguchi, Hideyo, 4,680,311, Cl. 514-561.000.
Watanabe, Yoshiaki; Morimoto, Shigeo; Goi, Masami; Mitsukuchi, Morihiro; Adachi, Takashi; Nakagami, Jozi; Asaka, Toshifumi; Eguchi, Tadashi; and Sota, Kaoru, 4,672,109, Cl. 536-7.200.
Watanabe, Yoshiaki; Yokoo, Chihiro; Goi, Masami; Onodera, Akira; Murata, Mitsuo; Fukushima, Hiroshi; and Sota, Kaoru, 4,699,981, Cl. 540-227.000.
Yamada, Toshiro; Fujisawa, Hiroshi; Goto, Kuniaki; Morimoto, Shigeo; Adachi, Takashi; and Watanabe, Yoshiaki, 4,668,776, Cl. 536-7.400.
Tait, Brian S.: *See*—
Bowler, Jean; and Tait, Brian S., 4,659,516, Cl. 260-397.500.
Tait, David S.: *See*—
Kufta, George; and Tait, David S., 4,688,252, Cl. 381-4.000.
Tait, Gerald W.: *See*—
Foster, Robert K.; and Tait, Gerald W., 4,665,510, Cl. 367-21.000.
Tait, Norman: *See*—
Smith, Francis H.; and Tait, Norman, 4,689,557, Cl. 324-174.000.
Tait, W. Stephen, to S. C. Johnson & Son, Inc. Phytate corrosion inhibitor system, 4,668,293, 5-26-87, Cl. 106-14.120.
Tait, William C.; and Lemberger, Richard R., to Minnesota Mining and Manufacturing Company. Deactivatable resonant marker for use in RF electronic article surveillance system, 4,689,636, 8-25-87, Cl. 343-895.000.
Tait, William S.: *See*—
Tomkins, David A.; Tait, William S.; and Duda, Donald J., 4,668,507, Cl. 424-45.000.
Taitel, Charles M.; and Taitel, Janice B., to Landice Products, Inc. Passive-type treadmill having an improved governor assembly and an electromagnetic speedometer integrated into the flywheel assembly, 4,659,074, 4-21-87, Cl. 272-69.000.
Taitel, Janice B.: *See*—
Taitel, Charles M.; and Taitel, Janice B., 4,659,074, Cl. 272-69.000.
Taitl, Ino: *See*—
Deckelmann, Karl; Hornung, Jurgen; Jones, Graham S.; Kersting, Roland; Reynolds, Quentin; and Taitl, Ino, 4,689,270, Cl. 428-432.000.
Elster, Werner; Koch, Horst; Ost, Gustav; Simon, Werner; Deckelmann, Karl; and Taitl, Ino, 4,659,986, Cl. 324-158.00F.
Taivalkoski, Amy L.: *See*—
Maddox, James F.; Kadonoff, Mark B.; Berger, Alan D.; Taivalkoski, Amy L.; George, Robert W., II; and Benayad-Cherif, Faycal E., 4,710,020, Cl. 356-1.000.
Taiyo Fishery Co. Ltd.: *See*—
Matsubayashi, Kaneo, 4,637,094, Cl. 17-1.00G.
Sasamoto, Yasuhiko; Atsumi, Takeo; Suzuki, Shin; and Hoshi, Masakazu, 4,666,720, Cl. 426-104.000.
Taiyo Kogyo Co., Ltd.: *See*—
Minami, Hirokazu; Ishizu, Nobuhiko; and Ota, Matsuo, 4,702,191, Cl. 114-106.000.
Taiyo Musen Co. Ltd.: *See*—
Mori, Kenzo; Yasuda, Hyo; and Suzuki, Minoru, 4,635,065, Cl. 342-435.000.
Taiyo Sanso Co., Ltd.: *See*—
Imaike, Sekiji; Hata, Takeki; and Yamazaki, Norio, 4,704,873, Cl. 62-64.000.
Taiyo Seiki Iron Works Co., Ltd.: *See*—
Takaguchi, Hiroyuki, 4,645,392, Cl. 410-80.000.
Taiyo Tanko Co., Ltd.: *See*—
Doi, Sadao; Yamada, Tohru; Matsumoto, Shungo; and Yamamoto, Taizo, 4,697,644, Cl. 172-123.000.
Taiyo Yuden Co., Ltd.: *See*—
Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,266, Cl. 361-321.000.
Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,267, Cl. 361-321.000.
Chazono, Hirokazu; Kishi, Hiroshi; Murai, Shunji; Fukui, Masami; and Wada, Takeshi, 4,700,268, Cl. 361-321.000.
Hayashi, Yutaka; Mishuku, Toshio; Yamanaka, Mitsuyuki; and Iida, Hideyo, 4,694,116, Cl. 136-256.000.
Kishi, Hiroshi; Oshio, Minoru; Murai, Shunji; Wada, Takeshi; and Fukui, Masami, 4,700,264, Cl. 361-321.000.
Kishi, Hiroshi; Oshio, Minoru; Murai, Shunji; Wada, Takeshi; and Fukui, Masami, 4,700,265, Cl. 361-321.000.
Kishi, Hiroshi; Oshio, Minoru; Murai, Shunji; Wada, Takeshi; and Fukui, Masami, 4,700,269, Cl. 361-321.000.

Kishi, Hiroshi; Oshio, Minoru; Murai, Shunji; Wada, Takeshi; and Fukui, Masami, 4,709,299, Cl. 361-321.000.
Taiyo Yuden Kabushiki Kaisha: *See*—
Hayashi, Yutaka; Iida, Hideyo; and Mishuku, Toshio, 4,641,091, Cl. 136-259.000.
Hayashi, Yutaka; Itoh, Atsuo; and Iida, Hideyo, 4,649,857, Cl. 118-326.000.
Iida, Hideyo; Mishuku, Toshio; and Shiba, Nobuyasu, 4,675,469, Cl. 136-259.000.
Sasazawa, Kazuo, 4,713,726, Cl. 361-321.000.
Taiyo Yushi K.K.: *See*—
Ishizuka, Waichi; and Aoki, Ryoichi, 4,678,676, Cl. 426-573.000.
Taizhanov, Karimzhan: *See*—
Junusov, Sabir J.; Junusov, Marat S.; Telnov, Vladimir A.; Dzhagangirov, Farkhad N.; Satritdinov, Fakhritdin; and Taizhanov, Karimzhan, 4,656,178, Cl. 514-279.000.
Tajana, Franco: *See*—
Ballarati, Vito; and Tajana, Franco, 4,669,158, Cl. 28-172.000.
Taji, Satoru; Yoshida, Norio; and Hikawa, Tetsuo, to Ricoh Company, Ltd. Etching of a phosphosilicate glass film selectively implanted with boron. 4,634,494, 1-6-87, Cl. 156-628.000.
Tajima, Akio, to Seikosha Co., Ltd. Paper feeding mechanism for printer. 4,688,958, 8-25-87, Cl. 400-636.300.
Tajima, Akira: *See*—
Tanaka, Kazuo; and Tajima, Akira, 4,682,860, Cl. 350-423.000.
Tajima, Atsushi; Suzuki, Nobuo; and Kuse, Tsutomu, to Hitachi, Ltd. Combined structure comprising parts having different coefficients of thermal expansion. 4,634,624, 1-6-87, Cl. 428-212.000.
Tajima, Eiichi; and Yamamoto, Kaname, to Tajima Roofing Co., Ltd. Laminated bituminous roofing membrane. 4,636,414, 1-13-87, Cl. 428-40.000.
Tajima, Eiichi: *See*—
Watanabe, Haruo; Tajima, Eiichi; Matsuraga, Masaaki; Hirohara, Toshihide; Iinuma, Yoshio; Ando, Naotake; Takahashi, Shigeyuki; and Takahashi, Teruaki, 4,643,526, Cl. 350-332.000.
Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yosimi; Saito, Kouichi; and Tamura, Akira, to Hitachi, Ltd. Permanent magnet electrical machine with reduced cogging. 4,672,253, 6-9-87, Cl. 310-269.000.
Tajima, Fumio: *See*—
Abukawa, Toshimi; Tahara, Kazuo; Takahashi, Noriyoshi; Tajima, Fumio; and Tomite, Tosio, 4,639,625, Cl. 310-154.000.
Tajima, Hatsuo; Nakahata, Kimio; Egami, Hidemi; Kan, Fumitaka; and Hosoi, Atsushi, to Canon Kabushiki Kaisha. Developing apparatus. 4,669,852, 6-2-87, Cl. 355-3.0DD.
Tajima, Hatsuo: *See*—
Egami, Hidemi; Kan, Fumitaka; Hosoi, Atsushi; Tajima, Hatsuo; Nakamura, Shunji; and Nakahata, Kimio, 4,660,958, Cl. 355-3.0DD.
Hosoi, Atsushi; Kan, Fumitaka; Egami, Hidemi; Tajima, Hatsuo; Nakamura, Shunji; and Nakahata, Kimio, 4,637,706, Cl. 355-3.0DD.
Nakamura, Shunji; Kan, Fumitaka; Egami, Hidemi; Hosoi, Atsushi; Tajima, Hatsuo; and Nakahata, Kimio, 4,638,760, Cl. 118-658.000.
Tajima, Hiroyuki, to Fuji Electric Company Ltd. Fuel cell system for replacement of fuel gas. 4,657,826, 4-14-87, Cl. 429-12.000.
Tajima, Hiroyuki, to Fuji Electric Company Ltd. Fuel cell system. 4,657,828, 4-14-87, Cl. 429-12.000.
Tajima, Ichiro; and Yamamoto, Minoru, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Composite material and process for producing the same. 4,649,071, 3-10-87, Cl. 428-212.000.
Tajima, Ikuo, to Tokai Kogyo Mishin Kabushiki Kaisha. Method of feeding a cloth in an embroidery machine. 4,653,415, 3-31-87, Cl. 112-262.200.
Tajima, Kyousuke, to Hosiden Electronics Co., Ltd. Connector socket. 4,637,669, 1-20-87, Cl. 339-14.00R.
Tajima, Kyousuke; and Kanuma, Satoru, to Hosiden Electronics Co., Ltd. Shielding connector. 4,650,270, 3-17-87, Cl. 339-143.00R.
Tajima, Masayoshi: *See*—
Iwaki, Akihiro; and Tajima, Masayoshi, 4,680,680, Cl. 362-80.000.
Kochi, Takeshi; Iwaki, Akihiro; and Tajima, Masayoshi, 4,670,823, Cl. 362-268.000.
Tajima, Noriyasu, to Tokyo Electric Co., Ltd. Counting in-line system. 4,655,304, 4-7-87, Cl. 177-4.000.
Tajima, Noriyasu; Aoba, Kunihiko; and Mihara, Hidemi, to Tokyo Electric Co., Ltd. Electronic weighing device having label printer with data stability check. 4,660,160, 4-21-87, Cl. 364-567.000.
Tajima, Noriyasu; Sakura, Yasuhiro; Futakata, Takashi; Senda, Kouji; and Seki, Kazuaki, to Tokyo Electric Co., Ltd. Indication method in balance with item indicator. 4,700,792, 10-20-87, Cl. 177-178.000.
Tajima, Osamu; Yamada, Makoto; Hagino, Hideo; and Nishizawa, Nobuyoshi, to Sanyo Electric Co., Ltd. Temperature control system for fuel cell powerplant. 4,640,873, 2-3-87, Cl. 429-24.000.
Tajima, Osamu; and Ito, Shigehiro, to Victor Company of Japan, Ltd. Optical type disc with V-shaped groove and optical type reproducing apparatus therefor. 4,674,070, 6-16-87, Cl. 369-46.000.
Tajima, Osamu: *See*—
Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, 4,678,856, Cl. 560-24.000.
Ikariya, Takao; Itagaki, Masanori; Mizuguchi, Masatsugu; Sakai, Itaru; and Tajima, Osamu, 4,699,994, Cl. 560-025.000.
Miyake, Yasuo; Tajima, Osamu; Nishioka, Masato; and Itoh, Yasuhiko, 4,686,157, Cl. 429-19.000.
Tajima Roofing Co., Ltd.: *See*—
Tajima, Eiichi; and Yamamoto, Kaname, 4,636,414, Cl. 428-40.000.
Tajima, Ryohei: *See*—
Nagamoto, Itsushi; Nakanishi, Tatsuo; and Tajima, Ryohei, 4,714,577, Cl. 264-46.600.
Tajima, Satoshi; and Watanabe, Shinpei, to International Business Machines Corporation. Serial keyboard interface system with frame retransmission after non-timely acknowledgements from data processor. 4,644,497, 2-17-87, Cl. 364-900.000.
Tajima, Shigeru; and Nakabayashi, Toshiya, to Sony Corporation. Motor driving circuit. 4,638,223, 1-20-87, Cl. 318-254.000.
Tajima, Shinobu: *See*—
Mori, Shunji; Tajima, Shinobu; and Itoh, Atsushi, 4,705,451, Cl. 414-70.000.
Tajima, Shoichi; and Fujiwara, Kouji, to Fujibyosya Co., Ltd. Anchor bolt. 4,652,194, 3-24-87, Cl. 411-417.000.
Tajima, Shoji; Kadomatsu, Yasuo; Miyazaki, Yoshio; Sakurai, Michikazu; and Anze, Kimio, to Ricoh Company, Ltd. Developer carrier and a method for manufacturing the same. 4,707,382, 11-17-87, Cl. 427-58.000.
Tajima, Taiji; and Higuchi, Shigemitsu, to Hitachi, Ltd. Control circuit for a stepping motor. 4,661,754, 4-28-87, Cl. 318-696.000.
Tajima, Takashi; Matsumoto, Kiyokazu; and Shibabuchi, Toshio, to Osaka Gas Company Limited. Coupling for corrugated conduit. 4,674,775, 6-23-87, Cl. 285-330.000.
Tajima, Tetsuo; Miwa, Hiroaki; Sudo, Ryoichi; and Horigome, Shinichi, to Hitachi, Ltd.; and Hitachi Maxell, Ltd. Optical disc. 4,668,550, 5-26-87, Cl. 428-65.000.
Tajima, Yoshihisa: *See*—
Takahashi, Katsuhiko; and Tajima, Yoshihisa, 4,713,408, Cl. 524-161.000.
Tajima, Yusuke; and Pucel, Robert A., to Raytheon Company. Radio frequency multiplier producing an even harmonic output. 4,660,006, 4-21-87, Cl. 333-218.000.
Tajima, Yusuke; Pucel, Robert A.; and Titus, Ward S., to Raytheon Company. Frequency conversion circuits. 4,662,000, 4-28-87, Cl. 455-333.000.
Tajima, Yusuke; and Tsukii, Toshikazu, to Raytheon Company. Monolithic programmable attenuator. 4,684,965, 8-4-87, Cl. 357-22.000.
Tajima, Yusuke; and Pucel, Robert A., to Raytheon Company. Frequency conversion circuits. 4,709,410, 11-24-87, Cl. 455-333.000.
Tajima, Yutaka: *See*—
Sakuranaka, Toru; Tajima, Yutaka; and Nakamura, Hisashi, 4,664,079, Cl. 123-370.000.
Tajiri, Akira: *See*—
Takizawa, Kazushige; Sakaki, Hirokazu; Abe, Yuji; Matsuo, Mamoru; Tajiri, Akira; and Tsuchida, Shin, 4,686,083, Cl. 420-548.000.
Tajiri, Hiromi, to Mitsubishi Denki Kabushiki Kaisha. Welding current power supply with inductive clipping. 4,654,503, 3-31-87, Cl. 219-110.000.
Tajiri, Hiromi, to Mitsubishi Denki Kabushiki Kaisha. Seam welding machine. 4,677,272, 6-30-87, Cl. 219-110.000.
Tajiri, Hiromitsu; Nishiguchi, Yasuo; and Matsuyama, Chiaki, to Kyocera Corporation. Reading apparatus with noise reduction. 4,652,767, 3-24-87, Cl. 250/578.000.
Tajiri, Kazuhiro; Kohmoto, Michio; Saito, Kiyoshi; and Takahira, Hitoshi, to Nitto Electric Industrial Co., Ltd. Epoxy resin powder coating composition. 4,639,476, 1-27-87, Cl. 523-213.000.
Tajiri, Keisuke; and Nomura, Hirotoshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Method for reproducing composition of electrolytic polishing solution for niobium material. 4,676,833, 6-30-87, Cl. 106-1.110.
Tajiri, Noriyuki: *See*—
Sugimori, Teruhiko; Tajiri, Noriyuki; and Fukuda, Yutaro, 4,690,974, Cl. 525-64.000.
Sugimori, Teruhiko; Tajiri, Noriyuki; and Fukuda, Yutaro, 4,690,975, Cl. 525-64.000.
Taka, Hideo: *See*—
Ogawa, Yukio; and Taka, Hideo, 4,688,919, Cl. 354-403.000.
Ohtsuka, Masanori; and Taka, Hideo, 4,669,849, Cl. 354-400.000.
Suzuki, Ryoichi; Taka, Hideo; and Tamura, Shuichi, 4,682,872, Cl. 354-403.000.
Takaba, Hiroaki: *See*—
Kobayashi, Akihiro; Yamaguchi, Shunzo; Kobayashi, Kiyomi; and Takaba, Hiroaki, 4,639,712, Cl. 338-238.000.
Takabayashi, Fumiki: *See*—
Kobayashi, Shigenobu; Takabayashi, Fumiki; and Yamada, Setsuo, 4,666,764, Cl. 428-254.000.
Takabayashi, Hirofumi: *See*—
Miyamoto, Toshinobu; Hayashi, Hiroo; Sakurai, Hideya; Takabayashi, Hirofumi; and Ohnishi, Youichi, 4,679,022, Cl. 335-296.000.
Takabayashi, Hitoshi; and Nakamura, Takahiro, to Anritsu Corporation. Apparatus for measuring thickness of object transparent to light utilizing interferometric method. 4,660,980, 4-28-87, Cl. 356-357.000.
Takabayashi, Kuniaki; Takaoka, Yoshitsugu; Hori, Kouichi; Shimotakahara, Masaki; Okada, Kiyojiro; and Shino, Satoru, to Green Cross Corporation, The. Continuous type centrifugal separator. 4,710,161, 12-1-87, Cl. 494-84.000.
Takabayashi, Toshiyuki, to Aisin Seiki Kabushiki Kaisha. Electrical power steering system. 4,645,024, 2-24-87, Cl. 180-79.100.
Takabayashi, Yasuhiro, to Fuji Electric Company, Ltd. Fuel cell power supply. 4,677,037, 6-30-87, Cl. 429-9.000.
Takabe, Katsunori; and Uetani, Kenichi, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for statistically processing elevator traffic information. 4,677,577, 6-30-87, Cl. 364-554.000.

Takabe, Ryoji: *See*—
Murakawa, Shigemi; Taguchi, Seiji; Nomura, Makoto; Takabe, Ryoji; Iwashita, Yoshiharu; and Ishii, Masahiro, 4,697,453, Cl. 73-290.00R.

Takace, James A., to Coachmen Industries, Inc. Seat pedestal. 4,667,917, 5-26-87, Cl. 248-398.000.

Takach, David S.; Boggavarapu, Rao L.; and Sinha, Ram R. P., to Westinghouse Electric Corp. Rotating flux transformer. 4,638,177, 1-20-87, Cl. 307-83.000.

Takach, Peter E. *See*—
Morrissey, Denis M.; Takach, Peter E.; and Zeblisky, Rudolph J., 4,683,036, Cl. 204-15.000.

Takacs, Gabor: *See*—
Szekely, Tibor; Tyihak, Erno ; Mincsovics, Emil; Remenyi nee Korodi, Zsuzsa; Peterfi, Laszlo; Kemeny, Gabor; and Takacs, Gabor, 4,671,871, Cl. 210-198.300.

Takacs, Gyoergy J. *See*—
Wolff, Donald L.; McCauley, Porter T.; Stiefel, Paul; Takacs, Gyoergy J.; and Adams, Roman A., 4,715,786, Cl. 417-32.000.

Takacs, Joseph. Windmill. 4,650,403, 3-17-87, Cl. 416-197.00A.

Takacs, Mark A. *See*—
Araps, Constance J.; Kandetzke, Steven M.; and Takacs, Mark A., 4,654,223, Cl. 427-12.000.
Araps, Constance J.; Kandetzke, Steven M.; and Takacs, Mark A., 4,656,050, Cl. 427-12.000.
Araps, Constance J.; Kandetzke, Steven M.; and Takacs, Mark A., 4,699,803, Cl. 437-243.000.
Cservak, Nancy R.; Fribley, Susan K.; Goth, George R.; and Takacs, Mark A., 4,665,007, Cl. 430-311.000.

Takacsy, Geza. *See*—
Vadas, Zoltan; Belcsak, Zoltan; Papp, Istvan; Wenzel, Bela; and Takacsy, Geza, 4,677,307, Cl. 290-2.000.

Takada, Akio: *See*—
Hanamura, Eiichi; Tokura, Yoshinori; Takada, Akio; and Itsubo, Akiro, 4,678,736, Cl. 430-270.000.

Takada, Hiromi, to Ricoh Company, Ltd. Automatically returned paper ball assembly of a printer. 4,714,364, 12-22-87, Cl. 400-639.100.

Takada, Hiroshi, to Murata Kikai Kabushiki Kaisha. Reading device in dobby machine. 4,685,492, 8-11-87, Cl. 139-68.000.

Takada, Hiroshi, to Murata Kikai Kabushiki Kaisha. Means for lifting motion of a heddle frame. 4,687,029, 8-18-87, Cl. 139-84.000.

Takada, Hiroshi: *See*—
Saita, Shigeaki; Takada, Hiroshi; and Tairaku, Senichi, 4,644,224, Cl. 313-634.000.
Yamashita, Masanobu; Takada, Hiroshi; Inoue, Takemi; and Yamauchi, Suguru, 4,651,687, Cl. 123-182.000.

Takada, Hiroyuki: *See*—
Wada, Shunichi; Shimomura, Setsuhiro; Kumagai, Naotake; Takizawa, Shozo; Maruyama, Mitsunori; Tatemoto, Minoru; Takada, Hiroyuki; and Harara, Mitsuhiko, 4,648,622, Cl. 280-707.000.

Takada, Hisashi, to Sumitomo Electric Industries, Ltd. Photoelectric converting circuit having a low parasitic capacitance. 4,638,152, 1-20-87, Cl. 250-214.00A.

Takada, Ikunori, to Mitsubishi Denki Kabushiki Kaisha. Planar semiconductor device with dual conductivity insulating layers over guard rings. 4,691,224, 9-1-87, Cl. 357-53.000.

Takada, Juichiro. Seat belt clamp. 4,635,873, 1-13-87, Cl. 242-107.200.

Takada, Juichiro. Stalk for a seat belt buckle or the like. 4,645,231, 2-24-87, Cl. 280-801.000.

Takada, Juichiro. Passive vehicle seat belt system. 4,655,477, 4-7-87, Cl. 280-804.000.

Takada, Jun; Yamaguchi, Minori; and Tawada, Yoshihisa, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Heat-resistant photoelectric converter. 4,665,278, 5-12-87, Cl. 136-256.000.

Takada, Jun: *See*—
Kuwahara, Hideyuki; Kondo, Bunji; Takada, Jun; Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,701,301, Cl. 419-21.000.

Takada, Katsuhiro, to Olympus Optical Co., Ltd. Graded refractive index single lens system. 4,684,221, 8-4-87, Cl. 350-413.000.

Takada, Katsuhiro, to Olympus Optical Co., Ltd. Graded refractive index lens system. 4,701,032, 10-20-87, Cl. 350-413.000.

Takada, Kazuya: *See*—
Kuramoto, Nobuyuki; Takada, Kazuya; and Numata, Yoshihiko, 4,642,298, Cl. 501-96.000.

Takada, Kazuyoshi, to Yamaha Hatsudoki Kabushiki Kaisha. Stabilizing means for snowmobile. 4,690,234, 9-1-87, Cl. 180-182.000.

Takada, Kousuke; and Kousaka, Akira, to Kabushiki Kaisha Toshiba. Magnetron with a ceramic stem having a cathode support structure. 4,705,989, 11-10-87, Cl. 315-39.510.

Takada, Makoto: *See*—
Fujita, Shigeru; Banzai, Hideo; and Takada, Makoto, 4,695,965, Cl. 364-518.000.

Takada, Masahiro; Yuzuriha, Teruaki; Katayama, Kouichi; and Sunamoto, Junzo, to Eisai Co., Ltd. Coated ubidecarenone-containing liposome. 4,636,381, 1-13-87, Cl. 424-38.000.

Takada, Masaru; Shiraishi, Kazuhiro; and Iida, Noboru, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Method for the production of thermoplastic tubes. 4,663,107, 5-5-87, Cl. 264-519.000.

Takada, Masayuki: *See*—
Nagai, Takaatsu; Takada, Masayuki; Sato, Akira; and Imamura, Mineo, 4,641,319, Cl. 373-84.000.

Takada, Minoru; and Tsuchiya, Toshio, to Honda Giken Kogyo Kabushiki Kaisha. Suspension for off-road motor vehicles. 4,708,361, 11-24-87, Cl. 280-663.000.

Takada, Mitsuo, to Nikko Co., Ltd. Power switch for a battery. 4,636,596, 1-13-87, Cl. 200-52.00R.

Takada, Mitsuru; Itoh, Hiroshi; Hiramatsu, Shigeki; and Tamura, Tadashi, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling hydraulically-operated power transmitting system including continuously variable transmission. 4,682,518, 7-28-87, Cl. 74-867.000.

Takada, Mitsuru: *See*—
Inagaki, Takafumi; Sasaoka, Hiroshi; Masutomi, Susumu; Itoh, Hiroshi; and Takada, Mitsuru, 4,698,764, Cl. 364-424.100.
Itoh, Hiroshi; and Takada, Mitsuru, 4,637,279, Cl. 74-866.000.
Itoh, Hiroshi; Akashi, Teruo; and Takada, Mitsuru, 4,653,353, Cl. 74-868.000.
Itoh, Hiroshi; and Takada, Mitsuru, 4,663,990, Cl. 74-866.000.
Itoh, Hiroshi; and Takada, Mitsuru, 4,672,863, Cl. 74-866.000.
Itoh, Hiroshi; Takada, Mitsuru; Sasaoka, Hiroshi; Inagaki, Takahumi; and Masutomi, Susumu, 4,689,745, Cl. 364-424.100.
Okada, Mitsuhiko; Itoh, Hiroshi; Kato, Nobuyuki; and Takada, Mitsuru, 4,669,336, Cl. 74-867.000.
Taga, Yutaka; Kubo, Seitoku; Kashihara, Yuji; Morisawa, Kunio; Takada, Mitsuru; and Nakamura, Yasunari, 4,702,341, Cl. 180-249.000.

Takada, Mitsuyuki; Morihiro, Yoshiyuki; and Takasago, Hayato, to Mitsubishi Denki Kabushiki Kaisha. Composite and circuit board having conductive layer on resin layer and method of manufacturing. 4,643,798, 2-17-87, Cl. 156-630.000.

Takada, Mitsuyuki; Endo, Atsushi; and Takasago, Hayato, to Mitsubishi Denki Kabushiki Kaisha. Composite having conductive layer on resin layer and method of manufacturing. 4,645,734, 2-24-87, Cl. 430-315.000.

Takada, Mitsuyuki; Morihiro, Yoshiyuki; and Takasago, Hayato, to Mitsubishi Denki Kabushiki Kaisha. Hybrid integrated circuit substrate and method of manufacturing the same. 4,685,203, 8-11-87, Cl. 29-620.000.

Takada, Reiji; and Aoki, Tsutomu, to Nippon Pneumatic Manufacturing Co., Ltd. Tool abnormality detector. 4,664,571, 5-12-87, Cl. 409-134.000.

Takada, Ryuji: *See*—
Hatamura, Yotaro; Ono, Kozo; Takada, Ryuji; and Kusaki, Takami, 4,674,339, Cl. 73-862.040.

Takada Sciyaku Kabushiki Kaisha: *See*—
Doi, Kengo; Nitta, Shinichi; Kusakari, Masaki; and Takahashi, Nobuhiko, 4,665,081, Cl. 514-356.000.

Takada, Shigetaka: *See*—
Iwata, Minoru; Takada, Shigetaka; and Takeuchi, Hitoshi, 4,657,189, Cl. 239-585.000.

Takada, Shun; Kadowaki, Takashi; and Onodera, Kaoru, to Konishiroku Photo Industry Co., Ltd. Photographic light-sensitive material containing phenolic couplers and stabilizers. 4,666,826, 5-19-87, Cl. 430-549.000.

Takada, Shun: *See*—
Miyoshi, Masanobu; Takada, Shun; and Onodera, Kaoru, 4,670,377, Cl. 430-621.000.

Takada, Shunji; Obshima, Naoto; and Ishimaru, Shingo, to Fuji Photo Film Co., Ltd. Silver halide photographic light sensitive materials. 4,668,614, 5-26-87, Cl. 430-567.000.

Takada, Shunji: *See*—
Mihayashi, Keiji; and Takada, Shunji, 4,705,743, Cl. 430-385.000.

Takada, Susumu; Sasatani, Takashi; Shindo, Hirohisa; Matsushita, Akira, and Eigyo, Masami, to Shionogi & Co., Ltd. Pyrazolo[4,3-c]quinoline-3-one and imidazo[4,3-c]cinnolin-3-one derivatives and their use as psychotropic agents. 4,690,930, 9-1-87, Cl. 514-293.000.

Takada, Tadakazu: *See*—
Tuchiya, Takahiro; Tukuda, Kazuaki; Takada, Tadakazu; and Goto, Hiroshi, 4,654,113, Cl. 156-643.000.

Takada, Tomoji, to Kabushiki Kaisha Toshiba. Large scale circuit device containing simultaneously accessible memory cells. 4,667,310, 5-19-87, Cl. 365-154.000.

Takada, Toshio: *See*—
Nagai, Norimichi; Horishi, Nanao; Kiyama, Masao; and Takada, Toshio, 4,698,182, Cl. 252-62.590.

Takada, Toshiyuki; Fukui, Noboru; and Shimizu, Akihito, to Kawasaki Jukogyo Kabushiki Kaisha. Exhaust system for water craft engines. 4,707,986, 11-24-87, Cl. 60-310.000.

Takada, Yasuo: *See*—
Suzuki, Takatoshi; Takada, Yasuo; Sakakibara, Yuji; Sugiura, Masahiro; Hayashi, Hiroaki; and Kamigaito, Osami, 4,691,756, Cl. 164-361.000.
Takemae, Shigeru; Takada, Yasuo; Tokuda, Shuichiro; Furukawa, Noriyuki; and Kodama, Hitoshi, 4,663,927, Cl. 57-6.000.

Takada, Yoji: *See*—
Yano, Toshihiko; Takada, Yoji; Tomioka, Hiroki; and Hirata, Naonori, 4,689,340, Cl. 514-399.000.

Takada, Yoshikazu: *See*—
Nakaoka, Kazuhide; Takada, Yoshikazu; Inagaki, Junichi; and Hiura, Akira, 4,715,905, Cl. 148-111.000.

Takada, Yukiharu: *See*—
Endo, Juro; Murakami, Shiro; Takada, Yukiharu; and Koike, Yoshiharu, 4,709,284, Cl. 360-103.000.

Takada, Yusaku: *See*—
Ohno, Akio; Tanaka, Kiyoharu; Takeda, Kenji; Yoshinaga, Kenji; Oguri, Shinichi; and Takada, Yusaku, 4,646,679, Cl. 118-691.000.

Takada, Zenji: *See*—
Ando, Hirohito; Takada, Zenji; and Shigeta, Yuko, 4,711,674, Cl. 106-289.000.

Takafuji, Hideo, to Nippon Steel Corporation. Cable for fastening structures and method of detecting damage to corrosion-preventive layer thereof. 4,684,293, 8-4-87, Cl. 405-224.000.

Takafuji, Hideo: *See*—
Minamida, Katsuhiro; Takafuji, Hideo; Haga, Hiroya; and Mizuhashi, Nobuo, 4,649,256, Cl. 219-121.0LD.

Takafuji, Yutaka; Kato, Hiroaki; and Funada, Fumiaki, to Sharp Kabushiki Kaisha; and Japan Electronic Industry Development Association. Method for the manufacture of thin film transistors. 4,654,959, 4-7-87, Cl. 29-571.000.

Takagaki, Hitohisa, to Polyplastics Co., Ltd. Polyacetal resin composition. 4,649,179, 3-10-87, Cl. 525-400.000.

Takagawa, Kiyoshi, to Mitsubishi Denki Kabushiki Kaisha. Plural turret system with display of permitted and non-permitted simultaneous machining operations. 4,700,313, 10-13-87, Cl. 364-474.000.

Takagawa, Makoto: *See*—
Osugi, Minoru; Takagawa, Makoto; Nakamura, Tadasi; Kojima, Takashi; and Tsuji, Kinya, 4,666,945, Cl. 518-713.000.

Takagi, Akihiro; and Kimoto, Kiyoshi, to Nippon Kogaku K. K. Apparatus for reproducing information from magnetooptical recording medium. 4,691,308, 9-1-87, Cl. 369-13.000.

Takagi, Akinobu: *See*—
Otobe, Yutaka; Kato, Akira; Hosoda, Fumio; and Takagi, Akinobu, 4,700,679, Cl. 123-327.000.

Takagi, Atsushi: *See*—
Nakahata, Kimio; Toyono, Tsutomu; Takagi, Atsushi; and Aguro, Yoshinori, 4,641,948, Cl. 355-3.0SH.

Takagi, Atushi: *See*—
Tokuda, Wahei; and Takagi, Atushi, 4,682,882, Cl. 355-14.00D.

Takagi, Eizi, to Kabushiki Kaisha Toshiba. Vacuum holder. 4,707,012, 11-17-87, Cl. 294-64.100.

Takagi, Fumio: *See*—
Hanamoto, Keiji; and Takagi, Fumio, 4,639,341, Cl. 264-40.100.

Takagi, Genjiro, to Tachikawa Spring Co., Ltc. Vehicle seat. 4,636,002, 1-13-87, Cl. 297-319.000.

Takagi, Haruyuki; and Yonezawa, Takeshi, to Yokohama Rubber Co., Ltd., The. Method of reading concavo-convex bar code. 4,687,942, 8-18-87, Cl. 250-556.000.

Takagi, Hiroshi; Koike, Kouichi; and Takeuchi, Hiroyuki, to Hitachi Medical Corporation. System for computing correction factors for sensitivity differences in detector channels of an X-ray tomography apparatus. 4,654,796, 3-31-87, Cl. 364-414.000.

Takagi, Hiroshi; Shinmi, Akira; and Suzuki, Kenji, to Canon Kabushiki Kaisha. Magnetic recording medium. 4,673,612, 6-16-87, Cl. 428-216.000.

Takagi, Hiroshi, to Omron Tateisi Electronics Co. Electronic cash register with means to enter discount prices directly by keyboard. 4,707,785, 11-17-87, Cl. 364-405.000.

Takagi, Hiroshi: *See*—
Nishimura, Yukuo; Asano, Toshiaki; Mizusawa, Nobutoshi; Kawakami, Eigo; Haruta, Masahiro; Noma, Takashi; Takagi, Hiroshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,640,592, Cl. 350-96.320.
Nishimura, Yukuo; Kawakami, Eigo; Asano, Toshiaki; Haruta, Masahiro; Takagi, Hiroshi; Noma, Takashi; Mizusawa, Nobutoshi; Nakazawa, Mitsunobu; and Ozawa, Kunitaka, 4,685,766, Cl. 350-96.320.

Takagi, Hiroyasu: *See*—
Watanabe, Isao; Momonoi, Kaishu; Hiraiwa, Toru; Ono, Satoshi; Nakano, Joji; Nagumo, Katsuyuki; and Takagi, Hiroyasu, 4,713,387, Cl. 514-332.000.

Takagi, Hisamitsu; Hanawa, Tetsuya; Nishiyama, Akihide; and Takashima, Yutaka, to Fujitsu Limited. Lock-releasing mechanism for telephone set with muting function. 4,700,383, 10-13-87, Cl. 379-421.000.

Takagi, Hisamitsu: *See*—
Suzuki, Narumi; and Takagi, Hisamitsu, 4,714,303, Cl. 312-7.100.

Takagi, Hitoshi: *See*—
Mita, Seiichi; Izumita, Morishi; Michikawa, Yuichi; Katayama, Hitoshi; Shiono, Hiroshi; Takagi, Hitoshi; Rokuda, Morito; and Doi, Nobukazu, 4,682,115, Cl. 328-164.000.

Takagi, Isamu: *See*—
Anahara, Meiji; Muramatsu, Shigeru; Takagi, Isamu; and Tuboi, Masayoshi, 4,672,804, Cl. 57-401.000.
Tanaka, Shigeru; and Takagi, Isamu, 4,684,766, Cl. 174-115.000.

Takagi, Katsuaki: *See*—
Minato, Osamu; Aoki, Masakazu; Yatsuda, Yuji; Takagi, Katsuaki; and Horiguchi, Masashi, 4,653,025, Cl. 365-154.000.

Takagi, Kazuhiko, to Brother Kogyo Kabushiki Kaisha. Image reading device. 4,706,125, 11-10-87, Cl. 358-256.000.

Takagi, Kazuhiko: *See*—
Igi, Hisashi; Ohta, Eiichi; Bandai, Yasuhito; and Takagi, Kazuhiko, 4,687,352, Cl. 400-73.000.

Takagi, Kazumasa; and Fukazawa, Tokuumi, to Hitachi Chemical Company, Ltd. Gamma ray detector. 4,647,781, 3-3-87, Cl. 250-483.100.

Takagi, Kazumasa: *See*—
Kobayashi, Toshio; Takagi, Kazumasa; and Fukazawa, Tokuumi, 4,691,983, Cl. 350-96.120.

Takagi, Kazunori: *See*—
Tokumo, Akio; Takagi, Kazunori; and Mori, Shuichi, 4,696,370, Cl. 181-141.000.

Takagi, Kazutoshi: *See*—
Yoshino, Hisakazu; Nishimura, Shinichi; and Takagi, Kazutoshi, 4,702,570, Cl. 350-516.000.

Takagi, Kenji, to Mitsubishi Plastics Industries Limited. Magnetic recording disc-jacket assembly. 4,655,348, 4-7-87, Cl. 206-444.000.

Takagi, Kiyotaka: *See*—
Abe, Hiroshi; Shichiri, Motoaki; Kawamori, Ryuzo; Ichoh, Tasuku; Iwatani, Kenji; Higuchi, Mamoru; Takagi, Kiyotaka; Okamoto, Noriluko; and Okudaira, Toshiyuki, 4,636,144, Cl. 417-63.000.

Takagi, Koichi; and Hayashi, Shunichi, to Mitsubishi Jukogyo Kabushiki Kaisha. Fiber reinforced plastic product and method of forming products. 4,677,020, 6-30-87, Cl. 428-294.000.

Takagi, Kozi; Nomura, Ken; Hattori, Yoshiyuki; and Kamiya, Masahiko, to Nippondenso Co., Ltd. Hydraulic braking system with malfunction alarm junction. 4,708,406, 11-24-87, Cl. 303-115.000.

Takagi, Kunihiko: *See*—
Mochizuki, Masatsugu; Umemura, Yoshihiro; Sakammoto, Izumi; and Takagi, Kunihiko, 4,675,347, Cl. 523-122.000.
Sakamoto, Izumi; and Takagi, Kunihiko, 4,642,104, Cl. 604-264.000.
Sakamoto, Izumi; and Takagi, Kunihiko, 4,642,111, Cl. 604-890.000.
Sakamoto, Izumi; Unigame, Tukasa; and Takagi, Kunihiko, 4,655,211, Cl. 128-156.000.
Yabushita, Yasunori; and Takagi, Kunihiko, 4,696,916, Cl. 514-25.000.

Takagi, Makoto: *See*—
Araki, Masatada; Kuroyama, Yutaka; Takeuchi, Yukihisa; Takagi, Makoto; and Imura, Toru, 4,713,871, Cl. 29-421.00E.
Takei, Shinzo; Yokoyama, Junji; and Takagi, Makoto, 4,640,700, Cl. 65-59.220.
Takeuchi, Yukihisa; and Takagi, Makoto, 4,711,795, Cl. 427-130.000.

Takagi, Masaaki, to Copal Company Limited. Photographic shutter. 4,664,493, 5-12-87, Cl. 354-226.000.

Takagi, Masashi: *See*—
Matsuoka, Akio; Takagi, Masashi; Yoshimi, Akiro; and Nishizawa, Kazutoshi, 4,646,535, Cl. 62-228.500.
Nishizawa, Kazutoshi; Takagi, Masashi; and Matsuoka, Akio, 4,715,792, Cl. 417-295.000.
Nishizawa, Kazutoshi; Takagi, Masashi; Matsuoka, Akio; and Nomura, Fuzio, 4,715,800, Cl. 418-69.000.

Takagi, Masayoshi; Hoshino, Yukio; and Yamauchi, Hiroki, to Toyoda Koki Kabushiki Kaisha. Machine tool with gang head interchange device. 4,713,876, 12-22-87, Cl. 29-568.000.

Takagi, Michiyuki: *See*—
Matsushita, Osami; Takagi, Michiyuki; Yoneyama, Mitsuhe; and Sugaya, Toyomi, 4,697,128, Cl. 318-607.000.

Takagi, Mitsuhiro: *See*—
Kaneda, Hiroshi; Takagi, Mitsuhiro; and Nakamura, Masaaki, 4,685,581, Cl. 220-3.200.

Takagi, Motoyuki: *See*—
Tokumoto, Minoru; Takagi, Motoyuki; Shiraoka, Shizuo; Goldsamuel; and Iovine, Carmine P., 4,710,526, Cl. 524-5.000.

Takagi, Nobukazu: *See*—
Abe, Tatsuhiko; and Takagi, Nobukazu, 4,643,223, Cl. 137-554.000.

Takagi, Nobuyuki: *See*—
Ishikawa, Hiroshi; Takagi, Nobuyuki; and Imai, Hajime, 4,675,770, Cl. 357-17.000.

Takagi, Satoshi: *See*—
Hasegawa, Isao; Yoshikawa, Kikuo; Takagi, Satoshi; and Takahashi, Akira, 4,691,261, Cl. 360-137.000.
Hayashi, Hideki; Takagi, Satoshi; and Yoshikawa, Kikuo, 4,646,174, Cl. 360-74.200.

Takagi, Seiichi: *See*—
Imai, Eiichi; Sakashita, Kiichiro; Takagi, Seiichi; and Kukimoto, Tsutomu, 4,702,986, Cl. 430-120.000.

Takagi, Shigehide; and Yamauchi, Shigeru, to Sumitomo Cement Co., Ltd. Porous ceramic material and processes for preparing same. 4,654,314, 3-31-87, Cl. 501-82.000.

Takagi, Shigeru, to Nippon Soken, Inc. Radial flow type dust collecting filter. 4,695,300, 9-22-87, Cl. 55-485.000.

Takagi, Shinichi: *See*—
Takano, Hiroshi; Takagi, Shinichi; and Wada, Kiyokazu, 4,642,080, Cl. 474-244.000.
Takano, Hiroshi; Takagi, Shinichi; Wada, Kiyokazu; Konishi, Sadaichi; and Kanaoka, Tomizo, 4,708,699, Cl. 474-144.000.

Takagi, Shiro, to Kabushiki Kaisha Toshiba. Data management apparatus. 4,653,021, 3-24-87, Cl. 364-900.000.

Takagi, Shuichi: *See*—
Nakayama, Hajime; Aoki, Osamu; Nishijima, Shigetoshi; Horiuchi, Haruo; Sugino, Takuya; and Takagi, Shuichi, 4,672,940, Cl. 123-590.000.

Takagi, Shunichi: *See*—
Kanda, Atsushi; Takagi, Shunichi; and Kambe, Rokuro, 4,657,825, Cl. 428-627.000.

Takagi, Soya; and Fukuzumi, Toshiharu, to Toyota Jidosha Kabushiki Kaisha. Method for hardening a surface of a cam provided on a camshaft. 4,658,111, 4-14-87, Cl. 219-125.100.

Takagi, Susumu, to Hewlett-Packard Company. Apparatus for measuring characteristics of circuit elements. 4,701,701, 10-20-87, Cl. 324-158.00K.

Takagi, Tadashi: *See*—
Seino, Kiyoharu; Takagi, Tadashi; and Takeda, Fumio, 4,639,694, Cl. 333-128.000.

Takagi, Takeo; Sakaguchi, Yuji; and Imamura, Yoshinori, to Bridgestone Corporation. Brake device for robot arm. 4,664,232, 5-12-87, Cl. 188-74.000.

Takagi, Toshiaki, to Terumo Kabushiki Kaisha. Plug assembly. 4,665,959, 5-19-87, Cl. 141-330.000.

Takagi, Toshiaki: *See*—
Shitaokoshi, Sachiro; Sekiguchi, Mamoru; Takagi, Toshiaki; and Mori, Toshimichi, 4,705,497, Cl. 604-4.000.
Yoshimoto, Masayuki; and Takagi, Toshiaki, 4,708,796, Cl. 210-321.800.
Takagi, Toshinori: *See*—
Okubo, Masao; Sugaya, Kiyoshi; Takagi, Toshinori; and Ishikawa, Junzo, 4,638,217, Cl. 315-111.810.
Takagi, Toshio; Fukuda, Masahiro; and Ohbu, Kazuo, to Lion Corporation. Separation and purification of biomembrane proteins. 4,654,132, 3-31-87, Cl. 204-182.800.
Takagi, Toshio: *See*—
Tsutsumi, Teruo; Ikeda, Sadao; and Takagi, Toshio, 4,660,053, Cl. 346-76.0PH.
Takagi, Toshisaburo: *See*—
Hara, Akira; Ohnuma, Hiraku; and Takagi, Toshisaburo, 4,671,869, Cl. 210-119.000.
Takagi, Tsuneharu: *See*—
Matsubara, Katsumi; Uchida, Riichi; Muramatsu, Masatoshi; Naya, Kotaro; and Takagi, Tsuneharu, 4,714,418, Cl. 418-201.000.
Takagi, Tsuneo; Tanabe, Kenjiro; Fukushima, Masao; Kyushima, Hiroki; Takenaka, Kiyoshi; Okada, Akira; and Isogaki, Yoshinori, to Dainippon Screen Mfg. Co., Ltd. Method and apparatus for electrophotographically reproducing a desired portion of an original on copying paper. 4,641,951, 2-10-87, Cl. 355-7.000.
Takagi, Tsutomu: *See*—
Kisumi, Masahiko; and Takagi, Tsutomu, 4,656,136, Cl. 435-253.000.
Takagi, Yasuo: *See*—
Nakamura, Masashi; Takagi, Yasuo; and Urakawa, Haruki, 4,650,729, Cl. 429-61.000.
Yamamori, Takahiro; Takagi, Yasuo; and Furukawa, Junichi, 4,677,878, Cl. 74-861.000.
Takagi, Yasushi: *See*—
Hattori, Torao; Takagi, Yasushi; Tange, Akira; Umetsu, Chiharu; Kudo, Osamu; Kurimoto, Kiyoshi; and Kitamura, Ryu, 4,698,050, Cl. 474-242.000.
Takagi, Yoshiaki; Katsui, Yoshihiro; Endo, Hiroyuki; and Ikenoue, Yutaka, to Hitachi Powdered Metals Co., Ltd.; and Honda Giken Kogyo Kabushiki Kaisha. Wear-resistant, sintered iron alloy and process for producing the same. 4,702,771, 10-27-87, Cl. 75-241.000.
Takagi, Yoshio, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor device including Darlington connections. 4,646,125, 2-24-87, Cl. 357-46.000.
Takagi, Yoshio: *See*—
Yano, Hideo; Kano, Keiichi; Ozawa, Hitoshi; Kato, Shinji; and Takagi, Yoshio, 4,666,786, Cl. 428-544.000.
Takagi, Yoshito; Wakahara, Yasuyuki; Hamano, Satoru; Mori, Masanori; Hamaguchi, Masayuki; and Yoshikawa, Naoki, to Nippondenso Co., Ltd. Brush holding device for rotating electrical machines. 4,673,838, 6-16-87, Cl. 310-239.000.
Takagi, Yoshiyuki; and Kaneaki, Tetsuhiko, to Matsushita Electric Industrial Co., Ltd. Electronic musical instrument for generating a natural musical tone. 4,709,611, 12-1-87, Cl. 84-1.220.
Takagi, Yutaka: *See*—
Kimura, Nobuhiro; Sato, Norikazu; Takagi, Yutaka; and Sugano, Tomoharu, 4,689,639, Cl. 346-76.0PH.
Takagi, Yuuji; Satoh, Isao; and Sugimura, Tatsuo, to Matsushita Electric Industrial Co., Ltd. Optical information recording and reproducing apparatus and optical disc. 4,695,993, 9-22-87, Cl. 369-54.000.
Takagishi, Hisao: *See*—
Saito, Yasuhisa; Takagishi, Hisao; Watanabe, Katsuya; Okuno, Kohichi; Kenmei, Junichi; and Kamio, Kunimasa, 4,705,833, Cl. 525-504.000.
Takago, Toshio; Yamamoto, Yasushi; Yamaguchi, Koichi; and Kato, Hideto, to Shin-Etsu Chemical Co., Ltd. Novel organosilicon compound. 4,652,663, 3-24-87, Cl. 549-215.000.
Takaguchi, Hiroyuki, to Taiyo Seiki Iron Works Co., Ltd. Deck fitting. 4,645,392, 2-24-87, Cl. 410-80.000.
Takahama, Akio, to Nippon Kogaku K. K. Transit. 4,644,659, 2-24-87, Cl. 33-1.00T.
Takahama, Hideyuki: *See*—
Endoh, Koichi; Kaneko, Toshiyuki; Yaoi, Hideo; Aso, Seiji; Obana, Yasuo; and Takahama, Hideyuki, 4,661,151, Cl. 75-53.000.
Takahama, Kazuhide: *See*—
Horiya, Keiichi; Takahama, Kazuhide; Kishino, Yasuichi; and Sato, Koichiro, 4,652,154, Cl. 400-120.000.
Horiya, Keiichi; Takahama, Kazuhide; and Usami, Yutaka, 4,683,479, Cl. 346-76.0PH.
Takahama, Shinobu, to Mitsubishi Denki Kabushiki Kaisha. Method of manufacturing package for high power integrated circuit. 4,677,741, 7-7-87, Cl. 29-588.000.
Takahama, Takashi: *See*—
Sakai, Kunito; Matsuda, Sadamu; and Takahama, Takashi, 4,697,203, Cl. 357-72.000.
Takahama, Teizo: *See*—
Sagisawa, Shinobu; Takahama, Teizo; and Kobayashi, Mitsuo, 4,695,963, Cl. 364-513.000.
Takahara, Atsushi; Ishikawa, Tomoyoshi; Tanaka, Hiroyuki; and Okui, Tamio, to NEC Corporation. Frequency synthesizer of a phase-locked type with a sampling circuit. 4,679,004, 7-7-87, Cl. 331-14.000.
Takahara, Kazuaki: *See*—
Ichikawa, Toshiji; Takahara, Kazuaki; Shimoda, Kazuhiro; Seita, Yukio; and Emi, Makoto, 4,708,800, Cl. 210-500.230.
Takahara, Kazuhiro: *See*—
Yamaguchi, Hisashi; Takahara, Kazuhiro; Gondoh, Hiroyuki; Kawada, Toyoshi; and Andoh, Shizuo, 4,636,789, Cl. 340-805.000.
Takahara, Masayuki; and Momoki, Motoyasu, to Olympus Optical Co., Ltd. Magnetic recording/reproducing apparatus. 4,692,824, 9-8-87, Cl. 360-85.000.
Takahara Shuzo Co., Ltd.: *See*—
Beppu, Teruhiko; Takesako, Kazutoh; Nakamura, Teruya; and Obayashi, Akira, 4,703,128, Cl. 549-270.000.
Takahara, Toshiyuki: *See*—
Imori, Hideo; and Takahara, Toshiyuki, 4,686,399, Cl. 310-62.000.
Takahara, Wataru: *See*—
Ikeda, Masaaki; Takahara, Wataru; Iteguchi, Junichi; Satoh, Hiroyuki; and Itoh, Shyuji, 4,642,732, Cl. 361-321.000.
Takahashi, Akinori, to NEC Corporation. A/D converter. 4,694,277, 9-15-87, Cl. 340-347.0NT.
Takahashi, Akinori: *See*—
Nakashima, Syozi; Takahashi, Akinori; Suganuma, Nobuo; and Ito, Satoshi, 4,645,662, Cl. 424-52.000.
Takahashi, Akio: *See*—
Matsumura, Kiichiro; Takahashi, Akio; and Tsukamoto, Jun, 4,666,736, Cl. 427-52.000.
Matsumura, Kiichiro; Takahashi, Akio; and Tsukamoto, Jun, 4,673,720, Cl. 526-285.000.
Yamada, Minoru; Wajima, Motoyo; Masaki, Akira; Takahashi, Akio; Nakanishi, Kenchirou; and Sugawara, Katuo, 4,710,854, Cl. 361-414.000.
Takahashi, Akira, to Ricoh Company, Ltd. Film transport indicator for cameras. 4,643,552, 2-17-87, Cl. 354-217.000.
Takahashi, Akira; Shibahara, Kazuo; Morimoto, Katsuhiro; Sanima, Hiromasa; and Kubo, Kazuhiko, to Kabushiki Kaisha Osaka Packing Seizosho. Shaped body of calcium silicate and process for producing same. 4,647,499, 3-3-87, Cl. 428-312.600.
Takahashi, Akira; and Hasegawa, Isao, to Clarion Co., Ltd. Cam driven actuating mechanism for a tape player. 4,656,552, 4-7-87, Cl. 360-137.000.
Takahashi, Akira; Kudara, Yoshifumi; Shoji, Sadao; and Nakatsuka, Saburo, to Matsushita Electric Industrial Co., Ltd. Safety valve device for enclosed cells. 4,662,533, 5-5-87, Cl. 220-209.000.
Takahashi, Akira; and Hasegawa, Isao, to Clarion Co., Ltd.; and Zero Engineering Ltd. Cam driven mode selection mechanism for tape recorder. 4,674,001, 6-16-87, Cl. 360-137.000.
Takahashi, Akira; and Kamioka, Kuniya, to Jeco Co. Fin swinging angle control apparatus. 4,676,146, 6-30-87, Cl. 98-40.300.
Takahashi, Akira; Murakami, Yoshiteru; Hirokane, Junji; Katayama, Hiroyuki; and Ohta, Kenji, to Sharp Kabushiki Kaisha. Magneto-optical memory element. 4,695,514, 9-22-87, Cl. 428-432.000.
Takahashi, Akira: *See*—
Danno, Yoshiaki; Takahashi, Akira; and Iida, Kazumasa, 4,705,001, Cl. 123-417.000.
Hasegawa, Isao; Yoshikawa, Kikuo; Takagi, Satoshi; and Takahashi, Akira, 4,691,261, Cl. 360-137.000.
Komatsubara, Masahiro; Kamimura, Tetsuro; Inanaga, Takugi; and Takahashi, Akira, 4,695,011, Cl. 242-199.000.
Kurokawa, Ryogo; Oyama, Fusami; Takahashi, Akira; and Hirose, Kenji, 4,652,002, Cl. 180-79.100.
Kurokawa, Ryogo; Oyama, Fusami; and Takahashi, Akira, 4,695,069, Cl. 280-91.000.
Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, 4,634,617, Cl. 428-65.000.
Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi, 4,658,393, Cl. 369-290.000.
Ohta, Kenji; Deguchi, Toshihisa; and Takahashi, Akira, 4,677,601, Cl. 369-13.000.
Oyama, Fusami; and Takahashi, Akira, 4,681,180, Cl. 180-76.000.
Tani, Tatsuhiro; Nagasawa, Hiroyuki; Tomite, Tosio; Tsubota, Kiyomasa; and Takahashi, Akira, 4,644,201, Cl. 310-51.000.
Takahashi, Atsuhisa; Nara, Takashi; Murayama, Masami; and Takeichi, Hiroaki, to Fujitsu Limited. Digital switch module having encoding law conversion capability. 4,661,946, 4-28-87, Cl. 370-58.000.
Takahashi, Atsushi, to Nifco, Inc. Device for locking rod against movement in extending and contracting directions. 4,657,425, 4-14-87, Cl. 403-104.000.
Takahashi, Atsushi: *See*—
Nukada, Hideki; and Takahashi, Atsushi, 4,677,505, Cl. 360-77.000.
Shioda, Mitsugu; and Takahashi, Atsushi, 4,688,961, Cl. 403-389.000.
Takahashi, Eiichi: *See*—
Ueno, Saburo; Yoshikumi, Chikao; Omura, Yoshio; Fuji, Takayoshi; Wada, Toshihiko; Takahashi, Eiichi; and Hirose, Fumio, 4,699,787, Cl. 424-95.000.
Takahashi, Eisaku: *See*—
Ohsugi, Katsuhisa; Ichida, Junji; and Takahashi, Eisaku, 4,668,627, Cl. 435-119.000.
Osugi, Katsuhisa; Ichinose, Isao; Takahashi, Eisaku; and Arahira, Masato, 4,684,664, Cl. 514-475.000.
Takahashi, Fuminobu: *See*—
Michiguchi, Yoshihiro; Hiramoto, Kazuo; Nishi, Masatsugu; and Takahashi, Fuminobu, 4,677,438, Cl. 342-22.000.
Michiguchi, Yoshihiro; Takahashi, Fuminobu; Hiramoto, Kazuo; Nishi, Masatsugu; and Sonoda, Shinji, 4,706,031, Cl. 324-337.000.
Takahashi, Fumio: *See*—
Toida, Akikazu; Iwata, Satoshi; Takahashi, Fumio; and Mimura, Takanobu, 4,707,703, Cl. 346-1.100.

Takahashi, Fumitaka; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, to Honda Giken Kogyo Kabushiki Kaisha. Optical switch having light source and receiver positioned stationary relative to steering wheel. 4,672,214, 6-9-87, Cl. 250-551.000.

Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, to Honda Giken Kogyo Kabushiki Kaisha. Light-conductive circuit unit including light deflecting means and optical switching means. 4,674,828, 6-23-87, Cl. 350-96.130.

Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Ohji, Nobuaki; and Sashida, Kiyoshi, to Honda Giken Kogyo Kabushiki Kaisha. Optical switching unit. 4,707,057, 11-17-87, Cl. 350-96.120.

Takahashi, Fumiyuki, to Du Pont de Nemours, E. I., and Company. Adaptable terminal assembly for multi-contact electrical connector. 4,676,580, 6-30-87, Cl. 439-885.000.

Takahashi, Haruhiko; Inui, Toshiharu; Saitoh, Hiroyuki; Ishikawa, Noriyoshi; Funato, Hitoshi; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, to Fuji Xerox Co., Ltd. Copying machine. 4,709,149, 11-24-87, Cl. 250-317.100.

Takahashi, Haruhiko: *See*—
Ishikawa, Noriyoshi; Takahashi, Haruhiko; Funato, Hitoshi; Leng, Svay; Saitoh, Hiroyuki; Ohmori, Takashi; Kurata, Masami; and Katou, Yasuo, 4,661,703, Cl. 250-317.100.

Takahashi, Haruji; Goto, Shigeo; Takata, Syuichi; Shibata, Mitsuaki; and Hata, Tomihira, to Shinko-Pfaudler Company, Ltd. Method for treating the surface of stainless steel by high temperature oxidation. 4,661,171, 4-28-87, Cl. 148-6.350.

Takahashi, Hatsuo; and Hibino, Junichi, to Hitachi, Ltd.; and Hitachi Electronics Engineering Co., Ltd. Magnetic shield for rotary actuator in a magnetic disc device. 4,658,313, 4-14-87, Cl. 360-98.000.

Takahashi, Hayashi: *See*—
Yoshinari, Osamu; Kawakatsu, Yoshifumi; Takahashi, Hayashi; and Fukuizumi, Hideaki, 4,659,623, Cl. 428-195.000.

Takahashi, Hideaki; Kondo, Haruyoshi; Takeuchi, Takashi; and Hayakawa, Kiyoharu, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Air-fuel ratio sensor and apparatus using the same. 4,661,234, 4-28-87, Cl. 204-406.000.

Takahashi, Hideaki: *See*—
Fukuda, Minoru; Takahashi, Hideaki; Sugiura, June; Tsuchiya, Fumio; and Kihara, Toshimasa, 4,691,298, Cl. 365-189.000.
Hayashi, Kazuo; Shoji, Tetsuo; Nitsuma, Hiroaki; Takahashi, Hideaki; and Abe, Hiroyuki, 4,665,984, Cl. 166-250.000.
Kawade, Hideji; Takahashi, Hideaki; Sato, Yoshiyuki; and Urayama, Yuji, 4,640,990, Cl. 379-77.000.
Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio, 4,656,862, Cl. 72-443.000.
Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio, 4,672,831, Cl. 72-21.000.

Takahashi, Hidemi: *See*—
Morita, Yasuyuki; Takahashi, Hidemi; and Sano, Reiji, 4,672,621, Cl. 372-58.000.

Takahashi, Hidemitsu: *See*—
Ikura, Katsuyata; Hagiwara, Kenji; Nagasaki, Fumihiko; Yamada, Tomio; Takahashi, Hidemitsu; and Hatano, Renpei, 4,713,396, Cl. 514-594.000.

Takahashi, Hidenao: *See*—
Hatakeyama, Hideharu; and Takahashi, Hidenao, 4,697,992, Cl. 417-269.000.

Takahashi, Hideo, to NEC Corporation. Clock frequency divider circuit. 4,656,649, 4-7-87, Cl. 377-48.000.

Takahashi, Hideo: *See*—
Koyama, Toshihiro; Watanabe, Takahiro; Shiozaki, Hiroyuki; Kawanami, Takao; Takahashi, Hideo; Shiraishi, Toshiyuki; and Okudaira, Ken, 4,665,729, Cl. 72-8.000.
Ogasawara, Kazuo; Katoh, Yoshiichi; and Takahashi, Hideo, 4,651,037, Cl. 307-572.000.

Takahashi, Hideyuki: *See*—
Komatsu, Toshio; Katada, Akira; and Takahashi, Hideyuki, 4,657,133, Cl. 206-204.000.
Komatsu, Toshio; and Takahashi, Hideyuki, 4,657,610, Cl. 156-87.000.

Takahashi, Hiroaki; Kobayashi, Masaharu; Noguchi, Takaharu; Shibuya, Toshifumi; and Arai, Takao, to Hitachi, Ltd. Rotary head type PCM recording and reproduction method and system. 4,685,004, 8-4-87, Cl. 360-32.000.

Takahashi, Hiromi: *See*—
Onoue, Hiroshi; and Takahashi, Hiromi, 4,713,461, Cl. 548-194.000.

Takahashi, Hiromichi: *See*—
Hara, Kenji; Takahashi, Hiromichi; Kamiya, Tetsuro; and Tsujii, Kaoru, 4,686,211, Cl. 514-148.000.

Takahashi, Hiroshi; Narutomi, Yasuhisa; Aotani, Yoshimasa; and Shiba, Keisuke, to Fuji Photo Film Co., Ltd. Plate making processing for using negative working light-sensitive lithographic plate requiring no dampening solution. 4,642,283, 2-10-87, Cl. 430-303.000.

Takahashi, Hiroshi, to Casio Computer Co., Ltd. Electronic cash register with means to store and correlate data on a customer by customer basis. 4,649,481, 3-10-87, Cl. 364-405.000.

Takahashi, Hiroshi; Uwano, Tomoki; Machida, Takashi; and Kitamura, Hirokazu, to Matsushita Electric Industrial Co., Ltd. Coaxial line-to-microstrip line transition device. 4,656,441, 4-7-87, Cl. 333-33.000.

Takahashi, Hiroshi, to Nihon Jumbo Kabushiki Kaisha. Film picker for film cartridge. 4,685,209, 8-11-87, Cl. 29-806.000.

Takahashi, Hiroshi; Kakizaki, Tetsuji; Kato, Mitsuyoshi; and Nishida, Koji, to Mitsubishi Petrochemical Co., Ltd. Coated optical fiber. 4,702,554, 10-27-87, Cl. 350-96.300.

Takahashi, Hiroshi, to NEC Corporation. Luminance/chrominance separating apparatus. 4,703,342, 10-27-87, Cl. 358-34.000.

Takahashi, Hiroshi; Tamura, Masanobu; and Sato, Kunihiko, to Toyota Jidosha Kabushiki Kaisha. Fuel injection control system for internal combustion engine. 4,705,004, 11-10-87, Cl. 123-491.000.

Takahashi, Hiroshi: *See*—
Egami, Tsuneyuki; Saito, Tsutomu; Kohama, Tokio; Saito, Kimitaka; Sato, Kunihiko; and Takahashi, Hiroshi, 4,635,200, Cl. 364-431.050.
Hatakeyama, Sakichi; and Takahashi, Hiroshi, 4,683,766, Cl. 74-333.000.
Inaba, Masao; Takahashi, Hiroshi; Nosaka, Kazuhiko; and Hatton, Takahiko, 4,649,507, Cl. 364-724.000.
Murakami, Chikara; Nakajima, Atsushi; Shimamoto, Yoshiharu; and Takahashi, Hiroshi, 4,652,780, Cl. 310-90.500.
Naritomi, Yasuhisa; Takahashi, Hiroshi; and Shiba, Keisuke, 4,690,886, Cl. 430-303.000.
Ono, Katsuhiro; Sakuma, Tatsuya; and Takahashi, Hiroshi, 4,698,835, Cl. 378-136.000.
Saito, Tsutomu; Egami, Tsuneyuki; Kohama, Tokio; Saito, Kimitaka; Takahashi, Hiroshi; and Sato, Kunihiko, 4,633,840, Cl. 123-489.000.
Sudo, Hajime; and Takahashi, Hiroshi, 4,644,205, Cl. 310-90.500.

Takahashi, Hiroto: *See*—
Ikeda, Masami; Shibata, Makoto; Takahashi, Hiroto; and Matsuda, Hiroto, 4,686,544, Cl. 346-140.00R.
Ikeda, Masami; Matsuda, Hiroto; Takahashi, Hiroto; and Shohji, Tatsumi, 4,694,306, Cl. 346-140.00R.

Takahashi, Hiroyoshi: *See*—
Ito, Makoto; Mori, Terumi; and Takahashi, Hiroyoshi, 4,686,879, Cl. 84-440.000.

Takahashi, Hiroyuki, to Takigen Manufacturing Co. Ltd. Disc type cylinder lock. 4,667,493, 5-26-87, Cl. 70-366.000.

Takahashi, Hiroyuki; and Toyoshima, Isao, to Murata Manufacturing Co., Ltd. Piezo-electric assembly. 4,703,218, 10-27-87, Cl. 310-348.000.

Takahashi, Hisamitsu: *See*—
Yamaura, Tatsuo; and Takahashi, Hisamitsu, 4,680,231, Cl. 428-407.000.

Takahashi, Hisanori: *See*—
Wada, Shintaro; Takahashi, Hisanori; and Nomura, Yoichi, 4,679,563, Cl. 128-640.000.

Takahashi, Hisatsugu: *See*—
Hosokawa, Hidehiro; Iida, Yoshimichi; and Takahashi, Hisatsugu, 4,641,500, Cl. 62-70.000.

Takahashi, Hitoshi, to Fujitsu Limited. Semiconductor integrated circuit device selected by an address signal. 4,707,802, 11-17-87, Cl. 364-900.000.

Takahashi, Horoyoshi, to Nippon Gakki Seizo Kabushiki Kaisha. Muffler mechanism for a piano. 4,633,753, 1-6-87, Cl. 84-220.000.

Takahashi, Ikuzo: *See*—
Sugihara, Junpei; Imai, Takeshi; Toida, Shuzo; and Takahashi, Ikuzo, 4,697,027, Cl. 556-466.000.

Takahashi, Isao: *See*—
Ishii, Toshio; Sakamoto, Yasuhisa; and Takahashi, Isao, 4,648,381, Cl. 126-20.000.
Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.

Takahashi, Isoji: *See*—
Sato, Yoshimitsu; Ohtsuka, Shuichi; Kimura, Akinori; Yoda, Akira; Kato, Keishi; and Takahashi, Isoji, 4,697,912, Cl. 355-3.00R.

Takahashi, Jiro: *See*—
Koizumi, Fumio; Kasuya, Takahira; and Takahashi, Jiro, 4,693,952, Cl. 430-109.000.
Shigeta, Kunio; Yamamoto, Yoko; and Takahashi, Jiro, 4,637,973, Cl. 430-122.000.
Shirose, Meizo; Takahashi, Jiro; Tsuchiya, Hiroshi; and Kaneko, Tadashi, 4,652,509, Cl. 430-110.000.

Takahashi, Juhei: *See*—
Asano, Shogo; and Takahashi, Juhei, 4,660,410, Cl. 73-35.000.

Takahashi, Junichi: *See*—
Itagaki, Masanori; Takahashi, Junichi; and Endou, Hideyasu, 4,695,678, Cl. 174-52.0FP.
Itoh, Yuji; and Takahashi, Junichi, 4,679,919, Cl. 351-206.000.

Takahashi, Junji, to Pioneer Electronic Corporation. Front-loading disc player with a horizontally disposed disc supporting member and a swingable turntable and pick-up unit. 4,654,840, 3-31-87, Cl. 369-75.200.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. Fungicidal aniline derivatives. 4,647,582, 3-3-87, Cl. 514-482.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Ishiguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. Fungicidal aniline derivatives. 4,647,583, 3-3-87, Cl. 514-482.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. Fungicidal aniline derivatives. 4,647,584, 3-3-87, Cl. 514-485.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. Fungicidal aniline derivatives. 4,666,938, 5-19-87, Cl. 514-479.000.

Takahashi, Junya; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; Kato, Toshiro; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. Fungicidal N-pyridinylamide derivatives. 4,672,070, 6-9-87, Cl. 514-346.000.

Takahashi, Junya; Sasaki, Mitsuru; Noguchi, Hiroshi; and Kato, Toshiro, to Sumitomo Chemical Company, Limited. Fungicidal aniline derivatives. 4,686,232, 8-11-87, Cl. 514-365.000.

Takahashi, Junya; Kato, Toshiro; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. Fungicidal N-phenylcarbamates. 4,690,946, 9-1-87, Cl. 514-485.000.

Takahashi, Junya; Kato, Toshiro; and Kamoshita, Katsuzo, to Sumitomo Chemical Company, Limited. Fungicidal carbamates and thiolcarbamates. 4,710,514, 12-1-87, Cl. 514-485.000.

Takahashi, Junya: *See*—
Noguchi, Hiroshi; Kato, Toshiro; Takahashi, Junya; Ishiguri, Yukio; Yamamoto, Shigeo; and Hirata, Naonori. 4,666,943, Cl. 514-627.000.
Tomioka, Hiroki; Ooishi, Tadashi; Takahasni, Junya; Sasaki, Mitsuru; and Hirata, Naonori, 4,709,052, Cl. 548-548.000.

Takahashi, Katsuhiko, to Polyplastics Co., Ltd. Manufacturing of high molecular weight polyester. 4,654,413, 3-31-87, Cl. 528-274.000.

Takahashi, Katsuhiko, to Fuso Keigokin Co., Ltd. Die cooling pipe. 4,655,280, 4-7-87, Cl. 165-47.000.

Takahashi, Katsuhiko; and Sugita, Michiyuki, to Polyplastics Co., Ltd. Thermoplastic resin composition. 4,692,480, 9-8-87, Cl. 523-218.000.

Takahashi, Katsuhiko; and Tajima, Yoshihisa, to Polyplastics Co., Ltd. Polybutylene terephthalate resin composition. 4,713,408, 12-15-87, Cl. 524-161.000.

Takahashi, Katsuhito, to Minigrip, Inc. Apparatus for forming plastic fastener and plastic accessory strips and uniting the same with a film. 4,698,118, 10-6-87, Cl. 156-499.000.

Takahashi, Kazuhisa; Kawasaki, Keiichi; and Itoh, Yuji, to Canon Kabushiki Kaisha. Image recording method and apparatus such as a light beam multiformat camera. 4,698,648, 10-6-87, Cl. 346-108.000.

Takahashi, Kazuhisa: *See*—
Kawaguchi, Fumiaki; Shimazu, Toshikazu; and Takahashi, Kazuhisa. 4,712,117, Cl. 346-108.000.
Shiba, Tetsuo; Takahashi, Kazuhisa; Ikeda, Kenji; and Higuchi, Hideyo, 4,706,106, Cl. 357-78.000.

Takahashi, Kazuo, to Canon Kabushiki Kaisha. Guide mechanism. 4,648,725, 3-10-87, Cl. 384-9.000.

Takahashi, Kazuo, to Canon Kabushiki Kaisha. Pattern exposure apparatus with distance measuring system. 4,659,225, 4-21-87, Cl. 356-358.000.

Takahashi, Kazuo: *See*—
Namba, Kenryo; Asami, Shigeru; Aoi, Toshiki; Takahashi, Kazuo; and Kuroiwa, Akihiko. 4,713,314, Cl. 430-270.000.

Takahashi, Kazutami: *See*—
Yokoyama, Tatsuichi; and Takahashi, Kazutami, 4,662,234, Cl. 74-393.000.

Takahashi, Kazuteru: *See*—
Higashio, Yasuhiko; and Takahashi, Kazuteru, 4,684,758, Cl. 585-608.000.

Takahashi, Kazuyoshi; Suzuki, Koji; Nagahira, Joji; Yoshihara, Kunio; Matsui, Toshiro; and Ishikawa, Tadashi, to Canon Kabushiki Kaisha. Power supply device. 4,709,319, 11-24-87, Cl. 363-49.000.

Takahashi, Keietsu; Ueda, Nobuo; Hazue, Masaaki; Yokoyama, Akira; and Ohmomo, Yoshiro, to Nihon Medi-Physics Co., Ltd. Increasing labeling efficiency by forming diagnostic agent in the presence of ascorbic acid or the like. 4,645,660, 2-24-87, Cl. 424-1.100.

Takahashi, Keietsu; Ueda, Nobuo; and Hazue, Masaaki, to Nihon Medi-Physics Co., Ltd. Radioactive diagnostic agent. 4,666,697, 5-19-87, Cl. 424-1.100.

Takahashi, Keiichi: *See*—
Hirata, Tadashi; Kobayashi, Shigeru; Takahashi, Keiichi; Morimoto, Makoto; and Arai, Yuko. 4,650,869, Cl. 544-343.000.

Takahashi, Keiko: *See*—
Wakabayashi, Toshio; Takahashi, Keiko; and Katayama, Hajime, 4,704,393, Cl. 514-274.000.

Takahashi, Keishi: *See*—
Kobayashi, Masashi; Takahashi, Keishi; and Yoneyama, Kimiya, 4,691,258, Cl. 360-97.000.

Takahashi, Ken; and Takahashi, Osamu, to Yokohama Kubber Co., Ltd. Pneumatic tire tread for heavy duty trucks. 4,641,697, 2-10-87, Cl. 152-209.00R.

Takahashi, Ken; Youda, Hiroshi; Sasaki, Seishi; and Kanai, Kenji, to Matsushita Electric Industrial Co., Ltd. Thin film magnetic head for reproducing perpendicular magnetization. 4,654,739, 3-31-87, Cl. 360-113.000.

Takahashi, Ken; and Kiryu, Munenori, to Suzuki Motor Co., Ltd. Method and apparatus for cooling cylinder head of an engine. 4,688,523, 8-25-87, Cl. 123-41.320.

Takahashi, Ken, to Suzuki Motor Co., Ltd. Apparatus for cooling cylinder head of an engine. 4,688,524, 8-25-87, Cl. 123-41.320.

Takahashi, Ken; Hirata, Chiaki; and Ishioka, Yuji, to Suzuki Motor Company Limited. Engine and drive belt cooling system for an all terrain vehicle. 4,712,629, 12-15-87, Cl. 180-68.100.

Takahashi, Ken: *See*—
Muraoka, Hiroaki; Sasaki, Seishi; Takahashi, Ken; and Youda, Hiroshi, 4,700,252, Cl. 360-113.000.

Takahashi, Kengo, to Hitachi, Ltd. Rotor spider for rotary electric machine. 4,636,675, 1-13-87, Cl. 310-157.000.

Takahashi, Kenichi, to Hitachi, Ltd. System and method for automatic transaction. 4,692,600, 9-8-87, Cl. 235-379.000.

Takahashi, Kenichi: *See*—
Yoshida, Noriyuki; and Takahashi, Kenichi, 4,678,327, Cl. 356-73.100.

Takahashi, Kenji; Umemoto, Chiyuki; and Kato, Hisatoyo, to Fuji Photo Film Co., Ltd. Radiation image recording and read-out method and apparatus. 4,710,626, 12-1-87, Cl. 250-327.200.

Takahashi, Kenji; Kuwahara, Heikichi; Yanagida, Takehiko; Nakayama, Wataru; Oizumi, Kiyoshi; and Sugimoto, Shigeo, to Hitachi, Ltd.; and Hitachi Cable, Ltd. Construction of a heat transfer wall of a heat transfer pipe. 4,715,436, 12-29-87, Cl. 165-133.000.

Takahashi, Kenji: *See*—
Hosoi, Yuichi; Miyahara, Junji; Mori, Nobufumi; and Takahashi, Kenji, 4,651,220, Cl. 358-256.000.
Hosoi, Yuichi; Mori, Nobufumi; Takahashi, Kenji; and Miyahara, Junji, 4,694,171, Cl. 250-311.000.
Khe, Nguyen C.; Nakamura, Masanobu; Fukawatase, Midori; and Takahashi, Kenji, 4,699,862, Cl. 430-93.000.
Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, 4,653,163, Cl. 29-157.30R.
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; and Oizumi, Kiyoshi, 4,690,211, Cl. 165-177.000.
Maruyama, Masanori; Takahashi, Kenji; Kudo, Koji; Hombaugh, Masanori; and Nagahara, Shusaku, 4,716,468, Cl. 358-219.000.
Masuda, Yukihiro; Ishibashi, Shizuka; Takahashi, Kenji; Kodama, Takuma; Kudo, Koji; and Hombough, Masanori, 4,647,822, Cl. 315-386.000.
Mori, Nobufumi; Takahashi, Kenji; and Horikawa, Kazuo, 4,636,641, Cl. 250-327.200.
Mori, Nobufumi; Hosoi, Yuichi; Takahashi, Kenji; and Miyahara, Junji, 4,695,725, Cl. 250-327.200.
Mori, Nobufumi; Hosoi, Yuichi; Takahashi, Kenji; and Miyahara, Junji, 4,700,071, Cl. 250-327.200.
Nakamura, Takashi; and Takahashi, Kenji, 4,698,508, Cl. 250-484.100.

Takahashi, Kiyofumi: *See*—
Tomibe, Shinji; Gomibuchi, Reizo; and Takahashi, Kiyofumi, 4,681,820, Cl. 428-698.000.
Tomibe, Shinji; Gomibuchi, Reizo; Takahashi, Kiyofumi; and Kato, Noboru, 4,690,854, Cl. 428-195.000.

Takahashi, Kiyoharu: *See*—
Matsumoto, Kunio; Kagimoto, Yoshitaka; Hirata, Tsutomu; Watanabe, Susumu; Ohtsuka, Akira; and Takahashi, Kiyoharu, 4,675,290, Cl. 435-24.000.

Takahashi, Kiyohiko: *See*—
Sakamoto, Norio; Ikariya, Toshiyuki; Takahashi, Kiyohiko; Nakamura, Masao; and Yanagisawa, Akira, 4,668,472, Cl. 422-56.000.

Takahashi, Kiyoshi: *See*—
Kitabayashi, Motoi; Hayashi, Takuo; Ozawa, Norihiko; Hirasawa, Yukihiro; and Miyazawa, Naotoshi, 4,647,813, Cl. 313-509.000.

Takahashi, Kiyotaka; and Arimoto, Kathuhiko, to Omron Tateisi Electronics Co. Handling machine for deposit envelopes. 4,670,081, 6-2-87, Cl. 156-384.000.

Takahashi, Kohsei: *See*—
Hayakawa, Toshiro; Suyama, Takahiro; Takahashi, Kohsei; and Yamamoto, Saburo, 4,693,207, Cl. 118-715.000.

Takahashi, Koichiro: *See*—
Shirasaki, Shin-ichi; Hotta, Yasunari; Yamamura, Hiroshi; Matsuda, Shin-ichi; Kakegawa, Kazuyuki; Moriyoshi, Yusuke; Takahashi, Koichiro; and Haneda, Hajime, 4,696,810, Cl. 423-593.000.

Takahashi, Koji; and Kawashima, Machio, to Hitachi, Ltd. In-line color picture tube apparatus with dynamic convergence correction device. 4,642,527, 2-10-87, Cl. 315-368.000.

Takahashi, Koji: *See*—
Aotsuka, Yasuo; Konishi, Masahiro; and Takahashi, Koji, 4,710,631, Cl. 250-354.100.
Sasaki, Noboru; and Takahashi, Koji, 4,705,744, Cl. 430-505.000.

Takahashi, Kotaro: *See*—
Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.

Takahashi, Kotei: *See*—
Ishii, Katsumi; Hirayama, Kanae; Matsuoka, Yoshio; and Takahashi, Kotei, 4,715,466, Cl. 180-233.000.

Takahashi, Kou: *See*—
Misawa, Rintaro; and Takahashi, Kou, 4,688,813, Cl. 280-5.220.

Takahashi, Kouichi; Ishida, Hidekuni; and Yonezawa, Toshio, to Tokyo Shibaura Electric Company, Limited. NPN transistor with base double doped with arsenic and boron. 4,667,218, 5-19-87, Cl. 357-63.000.

Takahashi, Kouji; and Takahashi, Rikio, to Takahashi Seimitsu Kogyo Kabushiki Kaisha. Yarn cutting scissors device. 4,655,261, 4-7-87, Cl. 139-302.000.

Takahashi, Kouji; and Fujiwara, Akihiro, to Canon Kabushiki Kaisha. Automatic focusing system. 4,697,904, 10-6-87, Cl. 354-403.000.

Takahashi, Kouji: *See*—
Harigaya, Isao; and Takahashi, Kouji, 4,696,440, Cl. 242-191.000.

Takayama, Nobutoshi; and Takahashi, Kouji, 4,669,005, Cl. 360-77.000.
Takahashi, Kousuke; and Yamada, Hachiro, to NEC Corporation. Bloch line pair driving device capable of quickly driving each Bloch line pair at a low voltage. 4,635,226, 1-6-87, Cl. 365-6.000.
Takahashi, Kozo, to Sharp Kabushiki Kaisha. Paper speed control in automatic document feeder. 4,693,461, 9-15-87, Cl. 271-176.000.
Takahashi, Kunihiro: *See*—
Kamohara, Hideaki; Fujioka, Kazumasa; Kobari, Toshiaki; Takahashi, Kunihiro; and Ueda, Shinjiro, 4,664,062, Cl. 118-719.000.
Takahashi, Kunio; and Sekiya, Yasuhisa, to Toyoda Van Moppes Limited. Grinding tool. 4,671,021, 6-9-87, Cl. 51-204.000.
Takahashi, Kunio: *See*—
Asano, Yuichiro; Kone, Yoshihisa; Yanagimoto, Takayuki; Shiozumi, Motoji; Takahashi, Kunio; Torao, Akira; Moriya, Susumu; and Momose, Atsushi, 4,708,882, Cl. 427-1.000.
Takahashi, Makoto: *See*—
Matsushita, Tsuyoshi; Mackawa, Motoi; and Takahashi, Makoto, 4,684,275, Cl. 400-479.000.
Takahashi, Masaaki: *See*—
Murakami, Susumu; Kagami, Teruyuki; Yatsuo, Tsutomu; and Takahashi, Masaaki, 4,691,223, Cl. 357-51.000.
Takahashi, Masahide; Sakai, Seiichi; Masada, Osamu; Ukawa, Masaru; and Onishi, Hamao, to Shikoku Denryoku Kabushiki Kaisha; and Shikoku Keisoku Kogyo Kabushiki Kaisha. Photovoltaic power control system. 4,636,931, 1-13-87, Cl. 363-71.000.
Takahashi, Masahiko: *See*—
Takano, Toshio; and Takahashi, Masahiko, 4,645,046, Cl. 192-4.00A.
Takahashi, Masahiro: *See*—
Eguchi, Hajime; Kataoka, Jiro; and Takahashi, Masahiro, 4,699,793, Cl. 426-41.000.
Kuwamoto, Michio; Takahashi, Masahiro; and Hasegawa, Masafumi, 4,651,055, Cl. 313-496.000.
Tomizawa, Hiroshi; Okada, Masakazu; Yasumoto, Seiichi; Mizokawa, Sadao; Fushimi, Hitoshi; Onuki, Ken; Takahashi, Masahiro; and Hamada, Takuji, 4,704,714, Cl. 370-15.000.
Takahashi, Masanobu: *See*—
Endo, Kazuyuki; Taniguchi, Motoaki; Takahashi, Masanobu; Yamada, Shigeki; and Kato, Kenshiro, 4,700,764, Cl. 152-526.000.
Satonaka, Shinobu; Takahashi, Masanobu; Wakikaido, Takahiro; and Yoshioka, Masahiro, 4,708,470, Cl. 355-77.000.
Takahashi, Masao: *See*—
Inagaki, Tetsuya; Aoki, Hidemi; Aikawa, Hiroyasu; and Takahashi, Masao, 4,707,472, Cl. 514-58.000.
Takahashi, Masaru: *See*—
Tanabe, Hisao; Takahashi, Masaru; Ozawa, Hiroyasu; Machida, Shoichi; and Kitamura, Makoto, 4,683,993, Cl. 188-321.110.
Takahashi, Masatomo, to Canon Kabushiki Kaisha. Communication apparatus. 4,663,778, 5-5-87, Cl. 379-100.000.
Takahashi, Masatomo; and Maeda, Toru, to Canon Kabushiki Kaisha. Facsimile apparatus. 4,668,994, 5-26-87, Cl. 358-256.000.
Takahashi, Masatoshi: *See*—
Hirakouchi, Yoshie; Toisawa, Osamu; and Takahashi, Masatoshi, 4,715,991, Cl. 252-555.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,649,072, Cl. 428-212.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,686,139, Cl. 428-323.000.
Ryoke, Katsumi; Takahashi, Masatoshi; Yoneyama, Takashi; Nishikawa, Yasuo; and Tadokoro, Eiichi, 4,693,929, Cl. 428-323.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,696,858, Cl. 428-323.000.
Takahashi, Michihisa: *See*—
Hoshina, Takayuki; Takahashi, Michihisa; Rimoto, Masanori; and Nagamoto, Masanaka, 4,659,644, Cl. 430-182.000.
Takahashi, Mikio: *See*—
Kumazawa, Kiyotake; Minamide, Noriaki; Moribe, Yoshihiro; Takahashi, Mikio; Beppu, Osamu; and Mitamura, Masahiro, 4,703,242, Cl. 318-685.000.
Nojima, Kazuhiro; Shono, Kouichi; and Takahashi, Mikio, 4,686,119, Cl. 427-362.000.
Wada, Atsuki; Takahashi, Mikio; and Suhara, Eiji, 4,673,493, Cl. 210-98.000.
Takahashi, Mikoto: *See*—
Sato, Hiroshi; Ikimi, Kiyoshi; Tojima, Hideto; and Takahashi, Mikoto, 4,709,112, Cl. 585-513.000.
Takahashi, Minoru: *See*—
Tohya, Syoichi; and Takahashi, Minoru, 4,636,703, Cl. 320-2.000.
Takahashi, Mitsugu: *See*—
Yoshiyasu, Hajimu; Takahashi, Mitsugu; Hisatsune, Fumiyuki; and Murata, Shiro, 4,642,428, Cl. 200-144.00R.
Takahashi, Mitsuo, to Seikoh Giken Co., Ltd.; and Sumitomo Heavy Industries, Ltd. Metal mold for resin molding. 4,715,804, 12-29-87, Cl. 425-141.000.
Takahashi, Mitsuru: *See*—
Nakamura, Makoto; Takahashi, Mitsuru; Osawa, Namieki; and Murakami, Yuichi, 4,713,044, Cl. 474-135.000.
Teranishi, Masayuki; Takahashi, Mitsuru; Nomoto, Hisayo; Kase, Hiroshi; Shuto, Katsuichi; Kubo, Kazuhiro; and Karasawa, Akira, 4,677,125, Cl. 514-7.000.
Tsuruoka, Ichiro; and Takahashi, Mitsuru, 4,714,427, Cl. 432-59.000.
Takahashi, Mizunori: *See*—
Ohta, Koji; Yoshimura, Masaaki; and Takahashi, Mizunori, 4,681,909, Cl. 524-272.000.
Takahashi, Mutsuhiko; Tadokoro, Minoru; and Matsuzaki, Hiroshi, to Hitachi Heating Appliances Co., Ltd. Safety device for open-type combustor. 4,664,095, 5-12-87, Cl. 126-96.000.
Takahashi, Mutsumi: *See*—
Kato, Kuniaki; and Takahashi, Mutsumi, 4,673,254, Cl. 350-345.000.
Takahashi, Mutsuo: *See*—
Iwama, Katsuaki; Takahashi, Mutsuo; and Shibata, Haruo, 4,705,986, Cl. 313-487.000.
Takahashi, Naotomi: *See*—
Ueno, Kuniki; and Takahashi, Naotomi, 4,640,747, Cl. 204-37.100.
Takahashi, Naoya; Endo, Keiji; Matsuzaka, Eiichi; Narui, Satoshi; and Sato, Atsushi, to Nippon Petrochemicals Company, Limited. Pressure-sensitive recording material. 4,686,548, 8-11-87, Cl. 503-213.000.
Takahashi, Naoya: *See*—
Kawakami, Shigenobu; Matsuzaka, Eiichi; Narui, Satoshi; and Takahashi, Naoya, 4,661,165, Cl. 106-311.000.
Takahashi, Naoyuki, to Olympus Optical Co., Ltd. Operating microscope apparatus. 4,714,328, 12-22-87, Cl. 350-521.000.
Takahashi, Noboru, to Mitsubishi Denki Kabushiki Kaisha. Wave shaping apparatus for eliminating pulse width distortion. 4,675,545, 6-23-87, Cl. 307-265.000.
Takahashi, Nobuaki: *See*—
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; Ueno, Shoji; Komura, Makoto; and Shichijo, Shunichi, 4,660,099, Cl. 358-342.000.
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,660,100, Cl. 358-342.000.
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,692,816, Cl. 358-342.000.
Takahashi, Nobuhiko: *See*—
Doi, Kengo; Nitta, Shinichi; Kusakari, Masaki; and Takahashi, Nobuhiko, 4,665,081, Cl. 514-356.000.
Takahashi, Nobuo: *See*—
Kawashima, Susumu; and Takahashi, Nobuo, 4,677,258, Cl. 178-18.000.
Takahashi, Nobutaka, to Nissan Motor Company, Limited. System for controlling an internal combustion engine and method therefor. 4,690,116, 9-1-87, Cl. 123-425.000.
Takahashi, Nobuyuki; Sugimoto, Ryuji; and Shirai, Yasuyuki, to Anelva Corporation. Automatic loader. 4,643,629, 2-17-87, Cl. 414-331.000.
Takahashi, Nobuyuki, to Anelva Corporation. Substrate processing apparatus. 4,674,621, 6-23-87, Cl. 198-378.000.
Takahashi, Nobuyuki: *See*—
Fujiwara, Norio; Takahashi, Nobuyuki; and Otsuki, Akihiro, 4,713,279, Cl. 428-142.000.
Maruoka, Kuniaki; Takahashi, Nobuyuki; Tujimura, Senkichi; Yamashita, Yasuhiko; Otsuka, Setsuo; Oohasi, Isao; and Motoyama, Takeo, 4,698,102, Cl. 148-2.000.
Takahashi, Noriaki: *See*—
Miura, Konoe; Nagasaka, Hideki; Takahashi, Noriaki; Ochiai, Tameichi; and Takasaki, Ryuichiro, 4,650,741, Cl. 430-192.000.
Takahashi, Norio, to Nifco Inc. Plate fastener. 4,715,095, 12-29-87, Cl. 24-453.000.
Takahashi, Norio: *See*—
Kobayashi, Yuji; and Takahashi, Norio, 4,673,807, Cl. 250-214.0AG.
Takahashi, Noriyoshi: *See*—
Abukawa, Toshimi; Tahara, Kazuo; Takahashi, Noriyoshi; Tajima, Fumio; and Tomite, Tosio, 4,639,625, Cl. 310-154.000.
Abukawa, Toshimi; Tahara, Kazuo; Takahashi, Noriyoshi; and Tomite, Toshio, 4,703,210, Cl. 310-154.000.
Ito, Motoya; Takahashi, Noriyoshi; Watanabe, Masatoshi; Abukawa, Toshimi; Seya, Takeshi; Kainuma, Hiroshi; and Syatoo, Toshiyuki, 4,704,789, Cl. 29-609.000.
Yamashita, Nobuyuki; Tahara, Kazuo; Watanabe, Masatoshi; and Takahashi, Noriyoshi, 4,657,818, Cl. 428-446.000.
Takahashi, Osamu; and Sakai, Minoru, to Fuji Photo Film Co., Ltd. Color diffusion transfer photographic film unit containing aluminum compound. 4,649,095, 3-10-87, Cl. 430-216.000.
Takahashi, Osamu: *See*—
Morigaki, Masakazu; Ohki, Nobutaka; Takahashi, Osamu; and Naruse, Hideaki, 4,704,350, Cl. 430-546.000.
Takahashi, Ken; and Takahashi, Osamu, 4,641,697, Cl. 152-209.00R.
Tange, Kohsuke; Takahashi, Osamu; Furuya, Yuhki; and Harada, Akira, 4,683,644, Cl. 437-7.000.
Takahashi, Ricardo M.: *See*—
Renken, Wayne G.; LeMay, Dan B.; and Takahashi, Ricardo M., 4,685,331, Cl. 73-204.000.
Takahashi, Rikio: *See*—
Takahashi, Kouji; and Takahashi, Rikio, 4,655,261, Cl. 139-302.000.
Takahashi, Ryoji: *See*—
Kajiyama, Ryuichi; and Takahashi, Ryoji, 4,677,437, Cl. 340-825.790.
Takahashi, Sachio: *See*—
Okazaki, Susumu; Higuchi, Shunichi; Nakamura, Osamu; and Takahashi, Sachio, 4,687,996, Cl. 324-436.000.

Takahashi, Sadahiro: *See*—
Fujishiro, Takeshi; Takahashi, Sadahiro; and Kaneko, Takanobu, 4,696,489, Cl. 280-707.000.

Takahashi, Sadao, to Ricoh Company, Ltd. Photosensitive member of recording apparatus. 4,634,264, 1-6-87, Cl. 355-16.000.

Takahashi, Sadatoshi; Asano, Toshiaki; Tsuji, Sadahiko; Fujibayashi, Kazuo; and Kato, Masatake, to Canon Kabushiki Kaisha. Zoom lens. 4,653,874, 3-31-87, Cl. 350-427.000.

Takahashi, Sadatoshi; Kato, Masatake; and Tsuji, Sadahiko, to Canon Kabushiki Kaisha. Zoom lens system. 4,687,303, 8-18-87, Cl. 350-427.000.

Takahashi, Sadatoshi; and Tanaka, Tsunefumi, to Canon Kabushiki Kaisha. Wide angle high range zoom lens. 4,690,513, 9-1-87, Cl. 350-427.000.

Takahashi, Sadatoshi: *See*—
Kitagishi, Nozomu; Momiyama, Kikuo; Ikemori, Keiji; Takahashi, Sadatoshi; and Tanaka, Tsunefumi, 4,639,096, Cl. 350-427.000.
Kitagishi, Nozomu; Takahashi, Sadatoshi; Ikemori, Keiji; Momiyama, Kikuo; and Tanaka, Tsunefumi, 4,695,133, Cl. 350-427.000.
Matsushita, Takashi; Takahashi, Sadatoshi; Ikemori, Keiji; Kitagishi, Nozomu; Tanaka, Tsunefumi; and Momiyama, Kikuo, 4,711,534, Cl. 350-426.000.
Tanaka, Tsunefumi; Ikemori, Keiji; Kitagishi, Nozomu; Takahashi, Sadatoshi; and Momiyama, Kikuo, 4,666,257, Cl. 350-427.000.
Tsuji, Sadahiko; and Takahashi, Sadatoshi, 4,359,187, Cl. 350-427.000.
Tsuji, Sadahiko; Takahashi, Sadatoshi; and Fujibayashi, Kazuo, 4,696,553, Cl. 350-427.000.

Takahashi, Sakae: *See*—
Omoda, Koichiro; Hamada, Hozumi; and Takahashi, Sakae, 4,675,809, Cl. 364-200.000.

Takahashi, Sankichi: *See*—
Koseki, Yasuo; Yamada, Akira; Kurokawa, Hideki; Matsuzaki, Harumi; Ebara, Katsuya; and Takahashi, Sankichi, 4,638,646, Cl. 62-478.000.
Koseki, Yasuo; Ebara, Katsuya; Takahashi, Sankichi; Matsuoka, Kazuhiko; Kuroiwa, Minoru; and Yamada, Akira, 4,670,137, Cl. 210-96.100.
Matsuzaki, Harumi; Kubota, Masayoshi; Ebara, Katsuya; Takahashi, Sankichi; and Kuroiwa, Minoru, 4,698,153, Cl. 210-192.000.

Takahashi, Satoji: *See*—
Hisamitsu, Kunio; Takemoto, Tadashi; Hijiya, Toyoto; and Takahashi, Satoji, 4,680,403, Cl. 546-247.000.

Takahashi, Satomi; Inoue, Kenji; Yanagida, Yoshifumi; Ohashi, Takehisa; and Watanabe, Kiyoshi, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Process for preparing N-[1(S)-ethoxycarbonyl-3-phenylpropyl]-L-alanyl-L-proline. 4,716,235, 12-29-87, Cl. 548-533.000.

Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, to Sony Corporation. Circuit board. 4,677,252, 6-30-87, Cl. 174-68.500.

Takahashi, Seiichi: *See*—
Makihara, Katsumi; Yanagi, Kenichi; Fukushima, Takeo; Suganuma, Namio; Samejima, Ichiro; and Takahashi, Seiichi, 4,638,851, Cl. 165-32.000.
Ujita, Tsugunobu; and Takahashi, Seiichi, 4,714,130, Cl. 180-262.000.

Takahashi Seimitsu Kogyo Kabushiki Kaisha: *See*—
Takahashi, Kouji; and Takahashi, Rikio, 4,655,261, Cl. 139-302.000.

Takahashi, Seizi: *See*—
Miyazaki, Masayuki; Kudo, Yoshihiko; Takahashi, Seizi; Kobayashi, Chiharu; and Sawaki, Akira, 4,659,208, Cl. 355-8.000.

Takahashi, Shigeki, to Matsushita Electric Industrial Co., Ltd. Coupling device for electric devices. 4,659,159, 4-21-87, Cl. 339-75.00M.

Takahashi, Shigeo; Hasegawa, Hiromi; Furusawa, Choji; and Morisawa, Kunio, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Throttle valve assembly. 4,651,773, 3-24-87, Cl. 137-315.000.

Takahashi, Shigeru; Tanaka, Makoto; and Tanaka, Kunio, to Teijin Limited. Waterproof composite sheet material. 4,656,080, 4-7-87, Cl. 428-215.000.

Takahashi, Shigeru; and Maeda, Yasuhiro, to Mitsui Petrochemical Industries, Ltd. Method for promoting fusion of plant protoplast. 4,677,066, 6-30-87, Cl. 435-172.200.

Takahashi, Shigeru: *See*—
Ibi, Akira; Sato, Takushi; Yamaguchi, Akihiro; Takahashi, Shigeru; Shishido, Shigeyuki; Tamai, Shoji; and Nakajima, Hisai, 4,687,836, Cl. 528-353.000.

Takahashi, Shigeyuki; Uchida, Manabu; and Yamazaki, Kazuhiro, to Daicel Chemical Industries, Ltd. Cellulose acetate molding containing odoriferous substance. 4,638,057, 1-20-87, Cl. 536-76.000.

Takahashi, Shigeyuki: *See*—
Mie, Kohei; Yamagishi, Yukio; Ishikawa, Hiroshi; Fukukawa, Mitsuo; and Takahashi, Shigeyuki, 4,699,543, Cl. 404-109.000.
Togashi, Shigeru; Saitoh, Hiromi; Takahashi, Shigeyuki; Makino, Yasuo; Kakinuma, Mitsuru; Satoh, Shigeo; and Sugiyama, Shigeki, 4,703,628, Cl. 62-135.000.
Watanabe, Haruo; Tajima, Eiichi; Matsunaga, Masaaki; Hirohara, Toshihide; Iinuma, Yoshio; Ando, Naotake; Takahashi, Shigeyuki; and Takahashi, Teruaki, 4,643,526, Cl. 350-332.000.

Takahashi, Shinichiro; and Isshiki, Isao, to Sumitomo Electric Industries, Ltd. Duty control circuit for gradually reducing the duty time. 4,691,330, 9-1-87, Cl. 377-39.000.

Takahashi, Shinichiro: *See*—
Isshiki, Isao; and Takahashi, Shinichiro, 4,686,483, Cl. 328-165.000.

Takahashi, Shinji; and Mita, Yoshinori, to Honda Giken Kogyo Kabushiki Kaisha. Body construction for motor scooter vehicles. 4,715,465, 12-29-87, Cl. 180-225.000.

Takahashi, Shinkichi, to Canon Kabushiki Kaisha. Image formation apparatus with variable density control. 4,657,377, 4-14-87, Cl. 355-14.00R.

Takahashi, Shino: *See*—
Arai, Yoshinao; Takahashi, Shino; Oikawa, Eigo; Sato, Shigeru; and Kobayashi, Hideaki, 4,706,187, Cl. 364-191.000.

Takahashi, Shinya: *See*—
Katoh, Akira; Ida, Masatoshi; Shijima, Kouichi; Oishi, Makoto; Hashimoto, Akihiko; and Takahashi, Shinya, 4,641,215, Cl. 360-35.100.

Takahashi, Shiro, to Man Design Co., Ltd. Annular hole cutter. 4,693,644, 9-15-87, Cl. 408-204.000.

Takahashi, Shizuo; and Yamashita, Kiyoshi, to Tokyo Automatic Machinery Works, Ltd. Apparatus for producing bags and packing articles therein. 4,640,083, 2-3-87, Cl. 53-551.000.

Takahashi, Shohzoh: *See*—
Yoshimura, Susumu; Kudoh, Yasuo; Tsuchiya, Soji; Kojima, Toshikuni; and Takahashi, Shohzoh, 4,679,124, Cl. 361-433.000.

Takahashi, Shoichi: *See*—
Inada, Yasuo; Sato, Koki; Fujii, Takazo; Yokoyama, Hideo; Takahashi, Shoichi; Mizutani, Kiyoshi; Kawashima, Takayoshi; and Nagawa, Akira, 4,664,333, Cl. 242-107.40A.

Takahashi, Shoji: *See*—
Kinugasa, Toshiyuki; Furuya, Tamio; Ishige, Yoshiki; Tsuchimoto, Yuichi; and Takahashi, Shoji, 4,714,424, Cl. 425-388.000.
Morimoto, Atsutaka; and Takahashi, Shoji, 4,636,905, Cl. 360-137.000.

Takahashi, Shokichi, to Matsushita Electric Industrial Co., Ltd. Separately pivoted hook arm arrangement for a cassette loading and unloading device. 4,672,485, 6-9-87, Cl. 360-96.500.

Takahashi, Shuji: *See*—
Kabe, Kazuyuki; Morikawa, Tuneo; and Takahashi, Shuji, 4,711,286, Cl. 152-527.000.
Yashima, Michio; and Takahashi, Shuji, 4,666,009, Cl. 180-68.500.
Yashima, Michio; and Takahashi, Shuji, 4,700,795, Cl. 180-68.500.

Takahashi, Shumichi, to Pioneer Electronic Corporation. Minimization of distortion due to a voice coil displacement in a speaker unit. 4,661,973, 4-28-87, Cl. 379-194.000.

Takahashi, Sumio: *See*—
Watabe, Seiji; Yokoyama, Isao; Sasaki, Masanori; Toyoshima, Yotaro; Takahashi, Sumio; and Maeda, Tsutomu, 4,714,908, Cl. 335-213.000.

Takahashi, Susumu, to Kanto Yakin Kogyo Kabushiki Kaisha. Brazing method for aluminum parts. 4,643,348, 2-17-87, Cl. 228-223.000.

Takahashi, Susumu, to Olympus Optical Co., Ltd. Oblique viewing optical system for endoscopes. 4,655,557, 4-7-87, Cl. 350-445.000.

Takahashi, Susumu, to Olympus Optical Co., Ltd. Illuminating optical system for endoscopes. 4,671,630, 6-9-87, Cl. 350-574.000.

Takahashi, Susumu, to Tokyo Kogaku Kikai Kabushiki Kaisha. Ophthalmic instrument having focus detecting mark projecting means. 4,673,264, 6-16-87, Cl. 351-211.000.

Takahashi, Susumu, to Olympus Optical Co., Ltd. Image transmission optical system for an endoscope. 4,676,606, 6-30-87, Cl. 350-463.000.

Takahashi, Susumu, to Niigata Engineering Co., Ltd. Emergency release valve apparatus. 4,687,016, 8-18-87, Cl. 137-240.000.

Takahashi, Susumu, to Olympus Optical Co., Ltd. Image transmission optical system for an endoscope. 4,693,568, 9-15-87, Cl. 350-469.000.

Takahashi, Susumu; and Iida, Hiroshi, to Sansui Electric Co., Ltd. AM stereo transmission method and apparatus. 4,716,590, 12-29-87, Cl. 381-15.000.

Takahashi, Susumu: *See*—
Nishioka, Kimihiko; Takahashi, Susumu; Yokota, Akira; and Okabe, Minoru, 4,674,844, Cl. 350-469.000.
Nishioka, Kimihiko; and Takahashi, Susumu, 4,676,592, Cl. 350-96.250.
Shishido, Yoshio; Takahashi, Susumu; Matsuo, Kazumasa; Miyazaki, Atsushi; Nishigaki, Shinichi; Kato, Shinichi; Nakamura, Takeaki; and Ishikawa, Akibumi, 4,711,999, Cl. 250-204.000.
Ueyanagi, Kiichi; Takahashi, Susumu; Usagawa, Toshiyuki; Umemoto, Yasunari; and Tsukada, Toshihisa, 4,683,487, Cl. 357-34.000.
Umemoto, Yasunari; Takahashi, Susumu; and Ono, Yuichi, 4,698,652, Cl. 357-16.000.
Usagawa, Toshiyuki; Ono, Yuichi; and Takahashi, Susumu, 4,710,787, Cl. 357-16.000.
Yamashita, Nobuo; and Takahashi, Susumu, 4,684,224, Cl. 350-445.000.

Takahashi, Tadahiro, to Diesel Kiki Co., Ltd. Cooling system with device for preventing a bad odor from circulating. 4,672,816, 6-16-87, Cl. 62-180.000.

Takahashi, Tadahiro, to Diesel Kiki Co., Ltd. Air conditioning system for automotive vehicles. 4,698,977, 10-13-87, Cl. 62-133.000.

Takahashi, Tadahiro: *See*—
Nakajima, Nobuyuki; and Takahashi, Tadahiro, 4,704,072, Cl. 417-223.000.

Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syoichi, to Hitachi, Ltd. Position-detecting sensor for detecting position of a moving object utilizing magnetism. 4,677,377, 6-30-87, Cl. 324-208.000.

Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syoichi, to Hitachi, Ltd. Crank angle sensor. 4,694,688, 9-22-87, Cl. 73-116.000.

Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syooichi, to Hitachi, Ltd. Magnetic position sensor. 4,707,695, 11-17-87, Cl. 340-870.310.

Takahashi, Tadashi; Miyashita, Kunio; and Kawamata, Syooichi, to Hitachi, Ltd. Device for magnetically detecting displacement of non-magnetic movable member. 4,713,613, 12-15-87, Cl. 324-208.000.

Takahashi, Tadashi: *See*—
- Adachi, Rensuke; and Takahashi, Tadashi. 4,676,593, Cl. 350-96.260.
- Ikegame, Hiroo; and Takahashi, Tadashi. 4,675,720, Cl. 357-75.000.
- Morinaga, Shigeki; Miyashita, Kunio; Hayashida, Hiroshi; and Takahashi, Tadashi. 4,638,225, Cl. 318-341.000.
- Sekizawa, Sadao; Seki, Toshio; and Takahashi, Tadashi. 4,639,807, Cl. 360-113.000.

Takahashi, Takao: *See*—
- Kato, Takatsugu; and Takahashi, Takao. 4,711,273, Cl. 139-116.000.
- Okada, Hiroshi; Takahashi, Takao; and Inoue, Hajime. 4,716,476, Cl. 360-66.000.
- Yasuda, Yukihiro; Yoshioka, Hiroshi; and Takahashi, Takao. 4,658,309, Cl. 360-77.000.

Takahashi, Takashi: *See*—
- Imai, Motomasa; Harata, Mitsuo; Takahashi, Takashi; and Nishijima, Kazuo. 4,701,767, Cl. 346-74.200.
- Tsuji, Jiro; and Takahashi, Takashi. 4,701,536, Cl. 549-215.000.
- Tsurumizu, Takashi; Hashimoto, Takashi; and Takahashi, Takashi. 4,661,350, Cl. 424-92.000.

Takahashi, Takayuki: *See*—
- Mori, Shigeru; and Takahashi, Takayuki. 4,701,272, Cl. 252-28.000.

Takahashi, Takehiko: *See*—
- Nakamura, Hiromi; Takahashi, Takehiko; Narazaki, Norio; Yamamoto, Kazuo; and Sayama, Norio. 4,653,268, Cl. 60-39.050.

Takahashi, Takehiro, to Mitsubishi Jukogyo Kabushiki Kaisha. Stamping device having identical mount bases for rotatably supporting a cutting tool and an anvil. 4,690,022, 9-1-87, Cl. 83-308.000.

Takahashi, Takeshi: *See*—
- Mitsuyasu, Masaki; and Takahashi, Takeshi. 4,688,536, Cl. 123-490.000.
- Takahashi, Yasuyuki; Aizawa, Shigeru; Tamai, Shigeru; Yoshida, Toshiro; and Takahashi, Takeshi. 4,714,566, Cl. 252-314.000.

Takahashi, Teruaki: *See*—
- Watanabe, Haruo; Tajima, Eiichi; Matsunaga, Masaaki; Hirohara, Toshihide; Iinuma, Yoshio; Ando, Naotake; Takahashi, Shigeyuki; and Takahashi, Teruaki. 4,643,526, Cl. 350-332.000.

Takahashi, Teruo, to Hakuto Seisakusho Co., Ltd. Multi-layered hollow coil, and an apparatus and method of manufacturing thereof. 4,668,544, 5-26-87, Cl. 428-593.000.

Takahashi, Teruo, to Nissan Motor Co., Ltd. Fuel tank's inside arrangement for reserving fuel to hold fuel outlet submerged during vehicle turn. 4,669,501, 6-2-87, Cl. 137-576.000.

Takahashi, Teruomi; and Sato, Tadashi, to Canon Kabushiki Kaisha. Write-in electronic display recorder. 4,713,698, 12-15-87, Cl. 358-296.000.

Takahashi, Tetujiro: *See*—
- Nakamura, Michiei; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro. 4,698,099, Cl. 106-288.00R.
- Nakamura, Michiei; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro. 4,704,165, Cl. 106-308.00M.

Takahashi, Tohru; and Kurami, Kunihiko, to Nissan Motor Co., Ltd. Control system for robot manipulator. 4,639,652, 1-27-87, Cl. 318-568.000.

Takahashi, Tohru: *See*—
- Kanbe, Junichiro; Okada, Shinjiro; Takahashi, Tohru; and Ando, Yujiro. 4,682,858, Cl. 350-334.000.
- Shimomura, Takeshi; and Takahashi, Tohru. 4,705,612, Cl. 204-165.000.
- Tamura, Yasuyuki; Kaneko, Shuzo; and Takahashi, Tohru. 4,649,094, Cl. 430-126.000.

Takahashi, Tokuyuki; Kuramochi, Koujiro; and Sayou, Syoichi, to Toyota Jidosha Kabushiki Kaisha. Control system for intermediate differential in four-wheel drive vehicle. 4,690,239, 9-1-87, Cl. 180-249.000.

Takahashi, Tomohiko, to Kabushiki Kaisha Toshiba. Method and apparatus for printing an image. 4,639,742, 1-27-87, Cl. 346-76.0PH.

Takahashi, Tomohiko: *See*—
- Nagashima, Masayoshi; Takahashi, Tomohiko; Higure, Naoto; and Fukuda, Kanehiro. 4,642,659, Cl. 346-76.0PH.

Takahashi, Tomowaki, to Nippon Kogaku K. K. Athermalized zoom lens system. 4,653,872, 3-31-87, Cl. 350-427.000.

Takahashi, Tomowaki; and Aono, Yasuhiro, to Nippon Kogaku K. K. Zoom lens including a wide angle of view. 4,699,475, 10-13-87, Cl. 350-427.000.

Takahashi, Tomoyuki; Katoh, Masashi; and Kikuchi, Hisashi, to Fuji Photo Film Co., Ltd. Photographic apparatus accommodating a plurality of film packs. 4,647,168, 3-3-87, Cl. 354-86.000.

Takahashi, Toru; and Yoshida, Taro, to Fujimori Kogyo Co., Inc. Laminated film for packaging. 4,692,327, 9-8-87, Cl. 428-35.000.

Takahashi, Toshiaki; and Suzuki, Tokio, to Alpine Electronics Inc. Motion sensor unit. 4,684,928, 8-4-87, Cl. 340-521.000.

Takahashi, Toshifumi: *See*—
- Harada, Tsutomu; and Takahashi, Toshifumi. 4,667,586, Cl. 99-289.00R.

Takahashi, Toshihiko; Inazawa, Yoshizumi; Tani, Toshiyuki; and Satomura, Shigeyuki, to Sony Corporation. Apparatus for reproducing a digital signal. 4,688,115, 8-18-87, Cl. 360-70.000.

Takahashi, Toshihiko; and Kawada, Hirohito, to Sony Corporation. Apparatus for recording and/or reproducing digital signal. 4,688,116, 8-18-87, Cl. 360-72.200.

Takahashi, Toshihiko; Tarui, Toshimi; and Sato, Hiroshi, to Nippon Steel Corporation. Method for softening rolled medium carbon machine structural steels. 4,702,778, 10-27-87, Cl. 148-12.00F.

Takahashi, Toshihiko: *See*—
- Inazawa, Yoshizumi; Takahashi, Toshihiko; Tani, Toshiyuki; and Satomura, Shigeyuki. 4,641,208, Cl. 360-72.200.

Takahashi, Toshihiro; Sueda, Noriyoshi; Tsuji, Masahiro; Tahara, Yoshiyuki; Koyama, Hiroyasu; Suzuki, Yoshikuni; Nagase, Masao; and Sugai, Toshiji, to Nisshin Flour Milling Co., Ltd. Optically active isocarbostyril derivatives and a method of preparing the same. 4,659,833, 4-21-87, Cl. 546-142.000.

Takahashi, Toshihiro: *See*—
- Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro. 4,645,862, Cl. 564-370.000.
- Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro. 4,658,063, Cl. 564-367.000.
- Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro. 4,700,002, Cl. 564-367.000.

Takahashi, Toshiki: *See*—
- Miyata, Toshimi; Takahashi, Toshiki; and Matsumoto, Kenji. 4,648,222, Cl. 52-208.000.

Takahashi, Toshimitsu: *See*—
- Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; Ueno, Tuneya; Matsumoto, Satoshi; Dosai, Takayoshi; Ohtsuki, Fumikazu; Fujimoto, Kazuhiro; and Takahashi, Toshimitsu. 4,669,291, Cl. 72-83.000.

Takahashi, Toshio, to Fuji Jukogyo Kabushiki Kaisha. System for diagnosing an internal combustion engine. 4,646,008, 2-24-87, Cl. 324-158.0MG.

Takahashi, Toshio: *See*—
- Hayase, Yoshio; Morita, Koichi; Ide, Kinya; and Takahashi, Toshio. 4,648,898, Cl. 71-93.000.
- Hayase, Yoshio; Ohtsuka, Toshikazu; Ishiguro, Takeo; and Takahashi, Toshio. 4,663,314, Cl. 514-63.000.
- Hayase, Yoshio; Ichinari, Mitsuhiro; Taguchi, Junji; Ishiguro, Takeo; and Takahashi, Toshio. 4,681,874, Cl. 514-90.000.
- Hayase, Yoshio; Ohtsuka, Toshikazu; Ide, Kinya; and Takahashi, Toshio. 4,695,312, Cl. 71-92.000.
- Uematsu, Ikuo; and Takahashi, Toshio. 4,676,112, Cl. 73-861.170.
- Yamauchi, Yoshiyuki; Ohara, Toshio; and Takahashi, Toshio. 4,696,342, Cl. 165-152.000.

Takahashi, Toshiro; and Nakamura, Koki, to Fuji Photo Film Co., Ltd. Process for forming a photographic image. 4,636,456, 1-13-87, Cl. 430-266.000.

Takahashi, Toshiro. Magnetic recording material and a method for producing the same. 4,650,708, 3-17-87, Cl. 428-216.000.

Takahashi, Toshiro; Tokushima, Tadao; Suzuki, Yoshifumi; and Waku, Yukio, to Nippon Gakki Seizo Kabushiki Kaisha. Method for producing magnetic recording media. 4,681,669, 7-21-87, Cl. 204-35.100.

Takahashi, Toshiro; and Hirano, Shigeo, to Fuji Photo Film Co., Ltd. Negative silver halide photographic light-sensitive material. 4,699,873, 10-13-87, Cl. 430-446.000.

Takahashi, Toshiro: *See*—
- Niki, Shoji; Takahashi, Toshiro; and Hirakoso, Yohei. 4,680,540, Cl. 324-78.00R.

Takahashi, Tsuneo; and Otsuka, Hirofumi, to Honda Giken Kogyo Kabushiki Kaisha. Optical torque detector. 4,637,264, 1-20-87, Cl. 73-862.330.

Takahashi, Tsuneo: *See*—
- Tagami, Katsutoshi; Takahashi, Tsuneo; Yasui, Shinichiro; and Sugimura, Masao. 4,663,629, Cl. 340-995.000.

Takahashi, Tsutomu; Matsukawa, Tetsuya; Naito, Yoshihiro; and Sato, Akihiro, to Chisso Corporation. Catalyst for olefin polymerization and process for producing same. 4,652,540, 3-24-87, Cl. 502-108.000.

Takahashi, Tsutomu, to NEC Corporation. Mobile radio data communication system using a speech recognition technique. 4,682,368, 7-21-87, Cl. 455-38.000.

Takahashi, Tsutomu: *See*—
- Higashimura, Toshinobu; Sawamoto, Mitsuo; Toyoshima, Yoshiki; Kanagawa, Shuuichi; Takahashi, Tsutomu; and Saito, Noriaki. 4,696,988, Cl. 526-220.000.
- Tomita, Tomoya; Hiramoto, Sotozi; Okubo, Takesi; Matsuo, Kuniyuki; Ashihara, Hiromoto; Nakamura, Mitsuo; Takahashi, Tsutomu; Fujino, Motoaki; and Hosaka, Kenji. 4,637,134, Cl. 29-741.000.

Takahashi, Yasufumi: *See*—
- Nakamura, Shigeki; Ohnishi, Makoto; and Takahashi, Yasufumi. 4,680,556, Cl. 332-16.00R.

Takahashi, Yasuhiro; Arai, Kazutaka; Ohara, Yoshio; Matsumoto, Hiroo; and Tsuchiya, Syuuzi, to Nissan Chemical Industries, Ltd. 2-phenylpropionic acid esters, method for optical resolution thereof and optically active substance thereof. 4,709,082, 11-24-87, Cl. 560-105.000.

Takahashi, Yasuhiro: *See*—
- Ikesue, Masumi; and Takahashi, Yasuhiro. 4,657,239, Cl. 271-227.000.

Takahashi, Yasunori, to Saiteku Corporation. Magnetic recording medium with vertically oriented magnetic particles. 4,672,009, 6-9-87, Cl. 428-694.000.

Takahashi, Yasuo, to Shinwa Setsakusho Co., Ltd. Method of manufacturing fiber bundles for use in brushes. 4,697,851, 10-6-87, Cl. 300-1.000.

Takahashi, Yasuro; Fujima, Yukihisa; and Tokuda, Kimishiro, to Mitsubishi Jukogyo Kabushiki Kaisha. Pulverized fuel firing apparatus. 4,669,398, 6-2-87, Cl. 110-347.000.

Takahashi, Yasushi: *See*—
Someno, Tetsuya; Kato, Kazuo; Takahashi, Yasushi; Ishii, Shinichi; Takeuchi, Tomio; and Umezawa, Hamao, 4,708,944, Cl. 502-7.000.

Takahashi, Yasutada: *See*—
Takahashi, Yutaka; and Takahashi, Yasutada, 4,648,424, Cl. 137-504.000.

Takahashi, Yasuyuki; Aizawa, Shigeru; Tamai, Shigeru; Yoshida, Toshiro; and Takahashi, Takeshi, to Meiji Milk Products Company Limited. Process for producing W/O/W type multiple emusion. 4,714,566, 12-22-87, Cl. 252-314.000.

Takahashi, Yohnosuke: *See*—
Ohara, Shinichiro; Takahashi, Yohnosuke; Naruo, Kyoichi; and Shinozaki, Fumiaki, 4,656,118, Cl. 430-272.000.

Takahashi, Yoshiaki: *See*—
Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki, 4,634,688, Cl. 514-41.000.
Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki, 4,661,474, Cl. 514-41.000.
Yanai, Takao; and Takahashi, Yoshiaki, 4,642,767, Cl. 364-200.000.

Takahashi, Yoshifusa; Kadonaga, Hiroshi; Ishikawa, Satoshi; and Kikuchi, Junichi, to Ricoh Company, Ltd.; and Furukawa Electric Company, Ltd., The. Optical data communication system. 4,644,587, 2-17-87, Cl. 455-601.000.

Takahashi, Yoshihiro; Abe, Hiraku; and Mamiya, Yasuhiro, to Alps Electric Co., Ltd. Code wheel for reflective optical rotary encoders. 4,644,156, 2-17-87, Cl. 250-231.0SE.

Takahashi, Yoshihiro; Abe, Hiraku; and Hayasaka, Kourou, to Alps Electric Co., Ltd. Optically reflecting code plate. 4,661,697, 4-28-87, Cl. 250-231.0SE.

Takahashi, Yoshihisa: *See*—
Amao, Nobuyoshi; Takahashi, Yoshihisa; and Yokomizo, Hitoshi, 4,668,884, Cl. 310-68.00R.

Takahashi, Yoshihito: *See*—
Kitagishi, Tomoji; Sasaki, Akira; Hakoyama, Akiyoshi; Furukawa, Shigetaka; Suzaki, Masafumi; Kobayashi, Ryooichi; Mikami, Katsumasa; Takahashi, Yoshihito; Nagano, Yousuke; and Honma, Takeo, 4,707,708, Cl. 346-76.0PH.

Takahashi, Yoshikazu: *See*—
Ando, Toshinari; Takahashi, Yoshikazu; Nishi, Masataka; Shimamoto, Susumu; Aihara, Katsuzo; and Tada, Naofumi, 4,652,697, Cl. 174-128.00S.

Takahashi, Yoshinobu; and Kojima, Masayuki, to Toyota Jidosha Kabushiki Kaisha. Apparatus for electrodeposition coating. 4,663,016, 5-5-87, Cl. 204-299.0EC.

Takahashi, Yoshinobu: *See*—
Fukuta, Kenji; Kaneko, Takaoki; and Takahashi, Yoshinobu, 4,678,644, Cl. 422-186.050.
Fukuta, Kenji; Kaneko, Takaoki; and Takahashi, Yoshinobu, 4,690,097, Cl. 118-723.000.

Takahashi, Yoshio, to Pioneer Electronic Corporation. Body-sensible acoustic device. 4,641,345, 2-3-87, Cl. 381-86.000.

Takahashi, Yoshio; and Hatanaka, Shigeto, to Mitsubishi Oil Co., Ltd. Sizing agent for paper making. 4,673,439, 6-16-87, Cl. 106-287.240.

Takahashi, Yoshio: *See*—
Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, 4,709,899, Cl. 249-20.000.
Yokota, Kinya; Ichihara, Akinobu; Tanakamaru, Yasuharu; and Takahashi, Yoshio, 4,666,523, Cl. 106-213.000.

Takahashi, Yoshitaka: *See*—
Dohmemoto, Tadashi; and Takahashi, Yoshitaka, 4,656,100, Cl. 428-611.000.
Hanyu, Susumu; Kata, Kenji; and Takahashi, Yoshitaka, 4,648,340, Cl. 112-447.000.
Kato, Kenji; Yamaguchi, Yoshio; and Takahashi, Yoshitaka, 4,648,341, Cl. 112-458.000.

Takahashi, Yoshiyasu: *See*—
Yonekura, Koji; Suzuki, Kenichi; Takahashi, Yoshiyasu; and Iwahori, Hiroaki, 4,643,241, Cl. 164-101.000.

Takahashi, Youjirou: *See*—
Nakanishi, Yoshiyuki; Akazawa, Yoji; Kurimoto, Ikuo; Takahashi, Youjirou; Uchida, Shinichi; and Yoshikawa, Hisashi, 4,665,200, Cl. 549-239.000.

Takahashi, Yukio; Hayase, Isao; Amano, Keijirou; Mizukami, Masao; and Ishiguri, Masaaki, to Hitachi, Ltd.; and Hitachi Automotive Engineering Co., Ltd. Moving vane type compressor. 4,711,620, 12-8-87, Cl. 418-56.000.

Takahashi, Yukio: *See*—
Sakakibara, Yuichi; Takahashi, Yukio; and Shima, Hideharu, 4,691,140, Cl. 313-486.000.

Takahashi, Yukoh; Kaneoya, Tatsuo; Okino, Eizo; Maegawa, Yuzo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, to Sumitomo Chemical Company, Ltd. Piperidine derivatives, their production and use as stabilizers. 4,670,489, 6-2-87, Cl. 524-103.000.

Takahashi, Yukoh: *See*—
Maegawa, Yuzo; Takahashi, Yukoh; Okino, Eizo; Kaneoya, Tatsuo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, 4,670,488, Cl. 524-103.000.

Takahashi, Yutaka; and Takahashi, Yasutada, to Kirin Beer Kabushiki Kaisha. Liquid flow rate controller. 4,648,424, 3-10-87, Cl. 137-504.000.

Takahashi, Yutaka. Air-conditioning hot-water supply device. 4,688,396, 8-25-87, Cl. 62-238.600.

Takahashi, Yutaka: *See*—
Kato, Shinichi; Sasaki, Masahiko; Kato, Tadashi; Kanno, Masahide; Takahashi, Yutaka; and Saito, Katsuyuki, 4,706,118, Cl. 358-98.000.
Sato, Ken; Takahashi, Yutaka; Tsukaya, Takashi; Kato, Shinichi; and Hattori, Shinichiro, 4,646,724, Cl. 128-6.000.

Takahata, Daisuke; and Sakai, Yukiyoshi, to Nitto Incorporated. Piezoelectric electro-acoustic transducer. 4,641,054, 2-3-87, Cl. 310-324.000.

Takahata, Hisatoshi: *See*—
Iida, Yoshikazu; and Takahata, Hisatoshi, 4,652,108, Cl. 354-415.000.
Terui, Nobuhiko; and Takahata, Hisatoshi, 4,695,148, Cl. 354-413.000.

Takahata, Naomi, to Canon Kabushiki Kaisha. Sheet handling apparatus. 4,688,786, 8-25-87, Cl. 271-294.000.

Takahata, Naomi: *See*—
Honjo, Takeshi; Takahata, Naomi; Tanaka, Mamoru; and Umeda, Yoshihito, 4,667,951, Cl. 271-259.000.

Takahata, Yasuyo; and Miyagawa, Ryuji, to Chemicals Inspection & Testing Institute. Partially hydrophilicized silica gel and process for producing the same. 4,694,092, 9-15-87, Cl. 556-400.000.

Takahatake, Yuriko: *See*—
Kondo, Kiyoshi; Matsui, Kiyohide; Negishi, Akira; and Takahatake, Yuriko, 4,681,953, Cl. 549-65.000.

Takahira, Hitoshi: *See*—
Tajri, Kazuhiro; Kohmoto, Michio; Saito, Kiyoshi; and Takahira, Hitoshi, 4,639,476, Cl. 523-213.000.

Takahira, Yoshiyuki: *See*—
Morioka, Akira; Matsuura, Takeshi; and Takahira, Yoshiyuki, 4,716,076, Cl. 428-323.000.

Takai, Fumio: *See*—
Furukawa, Toshiharu; Shimura, Susumu; Takai, Fumio; Sano, Norio; and Ishida, Tomonobu, 4,697,532, Cl. 110-346.000.

Takai, Haruki; Nomoto, Yuji; Hirata, Tadashi; Ohno, Tetsuji; and Kubo, Kazuhiro, to Kyowa Hakko Kogyo Kabushiki Kaisha. Cardiotonic quinazoline derivatives. 4,668,683, 5-26-87, Cl. 514-259.000.

Takai, Haruki; Ujiie, Mikio; and Nakamura, Hideki, to NEC Corporation. Terminal control device for reference station in TDMA satellite communication system. 4,712,212, 12-8-87, Cl. 370-104.000.

Takai, Hideo: *See*—
Fukuhara, Hiroshige; Takai, Hideo; Uekusa, Yasuyuki; and Kishi, Hisao, 4,672,382, Cl. 342-357.000.
Okamoto, Isao; Hiraishi, Motomi; Takai, Hideo; Kasai, Kenjiro; and Terada, Katsuyuki, 4,715,289, Cl. 105-199.200.

Takai, Hitoshi: *See*—
Ishino, Yuuji; Takai, Hitoshi; and Yoshida, Toshihiro, 4,686,895, Cl. 99-440.000.

Takai, Kazuki; Kinoshita, Shigeo; Fukazawa, Toshihiko; and Kikuchi, Junichi, to Clarion Co. Ltd. Loading and ejection mechanism for tape player. 4,672,478, 6-9-87, Cl. 360-93.000.

Takai, Kazuki; Ito, Yukio; Kinoshita, Shigeo; Kikuchi, Junichi; and Fukazawa, Toshihiko, to Clarion Co., Ltd. Releasable connection arrangement of a loading and/or ejection mechanism in a tape player. 4,688,122, 8-18-87, Cl. 360-96.500.

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Uno, Kunihiko; Nakazato, Kunihiro; Nishigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mihara, Jiro; and Takai, Kiyoaki, 4,639,927, Cl. 373-84.000.

Takai, Kiyoshi; and Kaseya, Akinori, to Godo Steel, Ltd. Hot gunning robot for furnace lining. 4,690,327, 9-1-87, Cl. 239-226.000.

Takai, Kiyoshi; and Iwasaki, Kiyoshi, to Godo Steel, Ltd. System using electric furnace exhaust gas to preheat scrap for steelmaking. 4,692,113, 9-8-87, Cl. 432-72.000.

Takai, Makoto: *See*—
Wakabayashi, Toshio; Takai, Makoto; Ichikawa, Shuji; Arai, Junichiro; and Murota, Seitsu, 4,673,684, Cl. 514-327.000.

Takai, Sakan: *See*—
Maegawa, Harumi; Takai, Sakan; Sukeda, Toshiaki; Irie, Shoji; and Kobata, Shoichi, 4,710,895, Cl. 365-2.000.

Takai, Yasuhiro; Morimoto, Kenichi; Yoshida, Shigekazu; and Tagawa, Takao, to Sharp Kabushiki Kaisha. Automatic exposure adjusting device. 4,636,063, 1-13-87, Cl. 355-68.000.

Takai, Yoshihiro; Uematsu, Katsumi; and Suzuki, Michio, to Tokyo Electric Co., Ltd. Label printer with test pattern for price and bar codes. 4,661,001, 4-28-87, Cl. 400-103.000.

Takaishi, Kazuaki, to Tokyo Electric Co., Ltd. Stepping motor drive circuit. 4,673,856, 6-16-87, Cl. 318-696.000.

Takaishi, Naotake; Urata, Kouichi; Inamoto, Yoshiaki; Tsutsumi, Hisao; and Kawano, Junichi, to Kao Soap Co., Ltd. α-mono (methyl-branched alkyl) glyceryl ether and a skin care cosmetic composition containing the same. 4,634,719, 1-6-87, Cl. 514-772.000.

Takaishi, Naotake; and Hori, Kimihiko, to Kao Corporation. Process for preparing 3-phenacylidene phthalides. 4,698,435, 10-6-87, Cl. 549-305.000.

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Hori, Kimihiko; Nakamura, Koichi; and Takaishi, Naotake, 4,670,585, Cl. 562-459.000.

Nakamura, Koichi; Hori, Kimihiko; Hattori, Michihiro; Tejima, Toru; Imokawa, Genji; and Takaishi, Naotake, 4,704,473, Cl. 562-463.000.

Nakamura, Koichi; Hattori, Michihiro; Tamura, Tadashi; Tejima, Toru; Takaishi, Naotake; Imokawa, Genji; and Hotta, Hajime, 4,710,373, Cl. 424-59.000.

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Takajo, Shigeaki, to Kawasaki Steel Corporation. Tin-containing ferrous composite powder and method of producing same and tin-containing sintered magnetic material. 4,643,765, 2-17-87, Cl. 75-0.50B.

Takaki, Hideki: *See*—
Katoh, Kazunobu; and Takaki, Hideki, 4,689,287, Cl. 430-230.000.

Takaki, Masaoki, to Hitachi, Ltd.; and Hitachi Control Systems, Inc. Sequence control method and apparatus. 4,683,549, 7-28-87, Cl. 364-900.000.

Takaki, Shoji: *See*—
Ohsaka, Yohnosuke; and Takaki, Shoji, 4,709,060, Cl. 549-511.000.

Takaki, Usaji; Sudo, Isamu; and Matsuhisa, Toshio, to Mitsui Toatsu Chemicals, Incorporated. Preparation process of cinnamate ester. 4,656,306, 4-7-87, Cl. 560-104.000.

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Hama, Yasuo; and Takaku, Shigetake, 4,680,969, Cl. 73-661.000.

Takaku, Tetsuo: *See*—
Katsurai, Junji; Monma, Masao; and Takaku, Tetsuo, 4,679,053, Cl. 346-1.100.

Takakura, Makoto; Kondo, Susumu; and Nogami, Tatsuya, to Nissan Chemical Industries Ltd. Polymer composition containing an organic metal complex and method for producing a metallized polymer from the polymer composition. 4,666,742, 5-19-87, Cl. 427-229.000.

Takakura, Masaki; Noguchi, Yoji; Yamane, Yasukuni; and Kako, Noritoshi, to Sharp Kabushiki Kaisha. Image processing device. 4,695,966, 9-22-87, Cl. 364-521.000.

Takakura, Mitsuro: *See*—
Okamoto, Tadashi; Shimoyama, Kazuhiko; Yamaoka, Hiromasa; and Takakura, Mitsuro, 4,694,419, Cl. 364-900.000.

Takakura, Toshihiko: *See*—
Okada, Daisuke; Uchida, Akihisa; Takakura, Toshihiko; Nakashima, Shinji; Ohno, Nobuhiko; and Ogiue, Katsumi, 4,700,464, Cl. 437-67.000.

Takakura, Yoshinari: *See*—
Suzaki, Shunkichi; Shirai, Toshiaki; Adachi, Hisanobu; Hayashi, Masaharu; Hattori, Kenji; and Takakura, Yoshinari, 4,687,132, Cl. 236-35.000.

Takakuwa, Masao, to Toho Polymer Kabushiki Kaisha. Information carrier, having a roughened surface, method of manufacturing same, and apparatus therefor. 4,657,419, 4-14-87, Cl. 400-490.000.

Takama, Hideaki: *See*—
Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, Koji; Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusawa, Kuniaki; Takama, Hideaki; Waseda, Masashi; and Fujita, Akihisa, 4,667,551, Cl. 83-72.000.

Takamagari, Munenori: *See*—
Kasai, Minoru; Oka, Takao; Takamagari, Munenori; Shibata, Chiyoji; and Nakamura, Minoru, 4,682,385, Cl. 17-45.000.

Takamatsu Electric Works, Ltd.: *See*—
Mitsukuchi, Kunio; Ito, Hiromitsu; Eguchi, Isamu; Hirasato, Bunji; and Furuhata, Takashi, 4,701,583, Cl. 200-148.00B.

Takamatsu, Hideo: *See*—
Yoshizawa, Tamae; Otsuka, Kiyoto; Nagata, Shiro; and Takamatsu, Hideo, 4,678,841, Cl. 525-353.000.

Takamatsu, Masayoshi; Hashimoto, Kouji; Manabe, Akiyoshi; and Ichihana, Hideyuki, to Teijin Chemicals, Ltd. Mixed polycarbonate resin composition. 4,678,845, 7-7-87, Cl. 525-462.000.

Takamatsu, Osamu: *See*—
Kitahara, Nobuko; Takamatsu, Osamu; Kaneko, Tetsuya; and Sugata, Masao, 4,636,038, Cl. 350-339.00R.

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Fukushima, Kiyoto; Takamatsu, Shigeru; and Kitaura, Eiji, 4,659,626, Cl. 428-425.900.

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Takamatsu, Yasuhiko: *See*—
Abe, Shuro; Yabuki, Yoshiro; Takamatsu, Yasuhiko; Yamaguchi, Takayuki; Ohta, Masatoshi; and Nakamura, Eiji, 4,651,164, Cl. 346-76.0PH.

Takami, Akio; Matsuura, Toshitaka; and Kawai, Nobuo, to NGK Spark Plug Co., Ltd. Gas sensor. 4,656,863, 4-14-87, Cl. 73-23.000.

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Takami, Akio: *See*—
Kojima, Takao; Nakano, Akira; Matsuura, Toshitaka; and Takami, Akio, 4,688,015, Cl. 338-34.000.

Matsuura, Toshitaka; Ohkawa, Teppei; Furusaki, Keizo; and Takami, Akio, 4,652,849, Cl. 338-34.000.

Takami, Akira, to Mitsubishi Denki Kabushiki Kaisha. Gear transmission. 4,685,348, 8-11-87, Cl. 74-437.000.

Takami, Eiichi: *See*—
Tanaka, Hiroyuki; Takami, Eiichi; Mishima, Kyoichi; Higashi, Mitsunobu; and Kumasaki, Toshimi, 4,702,729, Cl. 474-205.000.

Takami, Fumitaka: *See*—
Hamashima, Yoshio; and Takami, Fumitaka, 4,647,658, Cl. 540-215.000.

Takami, Satoshi, to Asahi Kogaku Kogyo Kabushiki Kaisha. Digital data output from a camera. 4,692,005, 9-8-87, Cl. 354-21.000.

Takamine, Henry, to Hughes Aircraft Company. Method and apparatus for determination of junction-to-case thermal resistance for a hybrid circuit element. 4,713,612, 12-15-87, Cl. 324-158.00D.

Takamine, Henry K.; and Olivares, Leonard, to Hughes Aircraft Company. Giga-hertz test jig. 4,672,312, 6-9-87, Cl. 324-158.00F.

Takamine, Henry K., to Hughes Aircraft Company. Ground shield apparatus for giga-hertz test jig. 4,712,062, 12-8-87, Cl. 324-158.00F.

Takamisawa Electric Co., Ltd.: *See*—
Fujii, Kunihisa; Tomono, Noboru; Kito, Tetsuo; and Yoshino, Kosei, 4,703,295, Cl. 335-129.000.

Takamiya, Bonnosuke: *See*—
Hiramatsu, Takeo; and Takamiya, Bonnosuke, 4,665,773, Cl. 74-866.000.

Takamiya Deltal Manufacturing Company Limited: *See*—
Kaoru, Koide; and Sadao, Nagai, 4,715,814, Cl. 433-59.000.

Takamiya, Kikuzo; and Ishibashi, Hideyuki, to Bridgestone Cycle Co., Ltd. Adjustable handlebar for bicycle. 4,682,509, 7-28-87, Cl. 74-551.400.

Takamiya, Kikuzo; Ishibashi, Hideyuki; and Kozakae, Kunitoshi, to Bridgestone Cycle Co., Ltd. Stepless speed change device. 4,697,469, 10-6-87, Cl. 74-117.000.

Takamiya, Kikuzo, Ishibashi, Hideyuki; and Kozakae, Kunitoshi, to Bridgestone Cycle Co., Ltd. Stepless speed change device. 4,712,450, 12-15-87, Cl. 74-750.00B.

Takamiya, Saburo, to Mitsubishi Denki Kabushiki Kaisha. Surface emitting semiconductor laser. 4,675,875, 6-23-87, Cl. 372-45.000.

Takamiya, Saburo: *See*—
Seiwa, Yoshito; and Takamiya, Saburo, 4,701,926, Cl. 372-45.000.

Takamizawa, Hideo: *See*—
Kurokawa, Yasuhiro; Utsumi, Kazuaki; and Takamizawa, Hideo, 4,650,777, Cl. 501-96.000.

Takamizawa, Kinya; and Uchiumi, Isao, to Tokyo Shibaura Denki Kabushiki Kaisha. Probe for electronic scanning type ultrasonic diagnostic apparatus. 4,644,214, 2-17-87, Cl. 310-334.000.

Takamizawa, Minoru; Yamamoto, Akira; Ishihara, Toshinobu; and Nagura, Shigehiro, to Shin-Etsu Chemical Co., Ltd. Contact lens comprising trimethylvinylsilane polymer. 4,649,185, 3-10-87, Cl. 526-279.000.

Takamizawa, Minoru; Kobayashi, Taishi; Ishihara, Toshinobu; Takeda, Yoshifumi; and Hayashida, Akira, to Shin-Etsu Chemical Co., Ltd. Precursor composition of silicon carbide. 4,657,991, 4-14-87, Cl. 525-477.000.

Takamizawa, Minoru; Yamamoto, Akira; and Nagura, Shigehiro, to Shin-Etsu Chemical Co., Ltd. Composite hollow fiber. 4,689,267, 8-25-87, Cl. 428-376.000.

Takamizawa, Minoru: *See*—
Endo, Morinobu; Takamizawa, Minoru; Hongu, Tatsuhiko; and Kobayashi, Taishi, 4,676,966, Cl. 423-345.000.

Fujimoto, Teruo; Kazama, Takeo; Takamizawa, Minoru; and Yamamoto, Akira, 4,636,454, Cl. 430-197.000.

Takamizawa, Takashi; and Hashizume, Motomu, to Texas Instruments Incorporated. Serial ROM devices. 4,646,265, 2-24-87, Cl. 365-104.000.

Takamori, Takesi: *See*—
Kawabe, Ryoichi; Iwasaki, Tetsuo; Kozuru, Hiroshi; Yoda, Masashi; Matsunaga, Masakazu; Takamori, Takesi; and Nakasima, Matao, 4,707,867, Cl. 4-313.000.

Takamura, Koji; and Kaiya, Haruhiko, to Olympus Optical Co., Ltd. Endoscope. 4,677,471, 6-30-87, Cl. 358-98.000.

Takamura, Koji; Hosoya, Takamasa; and Kobayashi, Kazunari, to Olympus Optical Co., Ltd. Connection device for connecting an associated unit to an eyepiece section of an endoscope. 4,697,894, 10-6-87, Cl. 350-574.000.

Takamura, Shuichi: *See*—
Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.

Takamura, Tohru: *See*—
Ishikawa, Kiyotsugu; Takamura, Tohru; Sone, Yoshiaki; Hashimoto, Susumu; and Hiramoto, Masao, 4,670,777, Cl. 358-48.000.

Takamura, Tomoe: *See*—
Uematsu, Takao; Komatsuzaki, Shigeki; Nakano, Fumio; and Takamura, Tomoe, 4,657,685, Cl. 252-32.500.

Takamura, Yoshio; and Nakajima, Akira, to Tokyo Shibaura Denki Kabushiki Kaisha. Multiple step-up rectifier circuit. 4,651,268, 3-17-87, Cl. 363-60.000.

Takamura, Yoshio; and Nakajima, Akira, to Kabushiki Kaisha Toshiba. Multiple output multiple step-up rectifier circuit. 4,660,138, 4-21-87, Cl. 363-61.000.

Takamura, Yoshio; and Nakajima, Akira, to Kabushiki Kaisha Toshiba. Voltage multiplying rectifier. 4,667,280, 5-19-87, Cl. 363-61.000.

Takamura, Yoshio; and Nakajima, Akira, to Kabushiki Kaisha Toshiba. Step-up rectifier circuit. 4,675,795, 6-23-87, Cl. 363-61.000.

Takamura, Yoshio; and Nakajima, Akira, to Kabushiki Kaisha Toshiba. Multiple step-up rectifier circuit. 4,716,512, 12-29-87, Cl. 363-61.000.

Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi, to Nippondenso Co., Ltd. Travel guidance system for vehicles. 4,646,089, 2-24-87, Cl. 340-995.000.

Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi, to Nippondenso Co. Ltd. Map display system. 4,675,676, 6-23-87, Cl. 340-995.000.

Takanashi, Hiroyoshi, to Nippon Gakki Seizo Kabushiki Kaisha. Disc automatically setting device of a disc player. 4,697,259, 9-29-87, Cl. 369-75.200.

Takanashi, Itsuo; Miyoshi, Tadayoshi; Nakagaki, Shintaro; and Nishiyama, Hiroshi, to Victor Company of Japan, Ltd. Color TV camera with plural solid state imaging devices mutually horizontally displaced and associated filters of vertically-oriented color stripes. 4,642,677, 2-10-87, Cl. 358-43.000.

Takanashi, Itsuo; Nakagaki, Shintaro; Ichimura, Hiroshi; and Kuriyama, Takashi, to Victor Company of Japan, Ltd. Color imaging apparatus having a 1:2 frequency ratio between video and reference signals for high S/N color demodulation. 4,691,227, 9-1-87, Cl. 358-47.000.

Takanashi, Keimichi: *See*—
Sakuma, Nobuo; and Takanashi, Keimichi, 4,712,884, Cl. 350-434.000.

Takanashi, Kenichi; and Sakuma, Nobuo, to Ricoh Company, Ltd. Fθ lens for use in light beam scanner. 4,707,085, 11-17-87, Cl. 350-480.000.

Takanashi, Kenji: *See*—
Kubota, Tatsuya; and Takanashi, Kenji, 4,698,676, Cl. 358-140.000.

Takanashi, Mahito: *See*—
Ozaki, Yoshiaki; and Takanashi, Mahito, 4,707,751, Cl. 360-97.000.

Takanashi, Masami; and Komatsu, Akihiro, to Honda Giken Kogyo Kabushiki Kaisha. Handle switch assembly for a motor vehicle. 4,641,723, 2-10-87, Cl. 180-315.000.

Takanashi, Nobuaki: *See*—
Ikeda, Hiroki; and Takanashi, Nobuaki, 4,683,406, Cl. 318-568.000.

Takanashi, Nobuyasu, to Terumo Kabushiki Kaisha. Junction for medical instruments. 4,687,474, 8-18-87, Cl. 604-257.000.

Takanashi, Nobuyasu: *See*—
Ito, Hideyuki; and Takanashi, Nobuyasu, 4,689,099, Cl. 156-69.000.

Takanashi, Tadao, to TR Co., Ltd. Handbag. 4,649,974, 3-17-87, Cl. 150-100.000.

Takanashi, Yukio, to Toshiba Kikai Kabushiki Kaisha. Injection device of injection molding machine. 4,645,445, 2-24-87, Cl. 425-208.000.

Takane, Hisao, to NEC Corporation. Method of dynamically changing formation of addresses in memory of a data processing system. 4,672,538, 6-9-87, Cl. 364-200.000.

Takano, Hajime; and Yamashita, Hiromitsu, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor integrated circuit device having ground connections arranged to eliminate mutual interference between island-disposed electronic circuits. 4,684,973, 8-4-87, Cl. 357-68.000.

Takano, Hiroji, to Matsushita Electric Industrial Co., Ltd. Apparatus and method for making a stamp. 4,714,957, 12-22-87, Cl. 358-93.000.

Takano, Hirokuni; Suemune, Toshiro; and Shimizu, Tadao, to Oki Electric Industry Co., Ltd. Memory device and printing system for dot printer. 4,704,040, 11-3-87, Cl. 400-121.000.

Takano, Hiroshi, to Mitsuboshi Belting Ltd. Method of controlling rotation of a V-belt drive. 4,634,404, 1-6-87, Cl. 474-11.000.

Takano, Hiroshi; Takagi, Shinichi; and Wada, Kiyokazu, to Mitsuboshi Belting Ltd. Power transmission belt. 4,642,080, 2-10-87, Cl. 474-244.000.

Takano, Hiroshi; Takagi, Shinichi; Wada, Kiyokazu; Konishi, Sadaichi; and Kanaoka, Tomizo, to Mitsuboshi Belting Ltd. Method and apparatus for reducing sound emanation from a drive system. 4,708,699, 11-24-87, Cl. 474-144.000.

Takano, Hiroshi: *See*—
Ikemura, Yuichi; and Takano, Hiroshi, 4,682,210, Cl. 358-29.000.
Nakao, Shinroku; Itoh, Masao; Itoh, Akira; and Takano, Hiroshi, 4,678,182, Cl. 272-73.000.

Takano, Katsuhiko; Yoshihara, Satoshi; Iijima, Shigeharu; Sasamori, Eizo; Matsushima, Masaaki; and Kishi, Hiroyoshi, to Canon Kabushiki Kaisha. Optical recording medium. 4,710,418, 12-1-87, Cl. 428-192.000.

Takano, Katuyuki: *See*—
Ueda, Hikoji; Otsu, Akira; Sano, Kenji; and Takano, Katuyuki, 4,652,511, Cl. 430-137.000.

Takano, Kazukiyo: *See*—
Sato, Toru; Okazaki, Naoto; Hasegawa, Toshihisa; Fujii, Katsumasa; and Takano, Kazukiyo, 4,686,974, Cl. 128-204.230.

Takano, Kunio; Nukushina, Masanori; and Miyamoto, Toshiyuki, to Tokyo Juki Industrial Co. Ltd. Input device for sewing machine. 4,665,846, 5-19-87, Cl. 112-121.120.

Takano, Kunio; and Nukushina, Masanori, to Tokyo Juki Industrial Co., Ltd. Automatic sewing machine. 4,665,847, 5-19-87, Cl. 112-121.120.

Takano, Kunio; Nukushina, Masanori; Okiyama, Yoichi; and Miyamoto, Toshiyuki, to Tokyo Juki Industrial Co., Ltd. Input device for sewing machine. 4,691,649, 9-8-87, Cl. 112-121.120.

Takano, Kunio; and Nukushina, Masanori, to Tokyo Juki Industrial Co., Ltd. Sewing machine control apparatus. 4,694,762, 9-22-87, Cl. 112-121.120.

Takano, Kunio: *See*—
Kinoshita, Tomoaki; Takano, Kunio; and Tachikawa, Osamu, 4,646,246, Cl. 364-470.000.
Kinoshita, Tomoaki; Takano, Kunio; Okiyama, Yoichi; and Tachikawa, Osamu, 4,683,827, Cl. 112-121.120.
Kinoshita, Tomoaki; Takano, Kunio; Nukushina, Masanori; Wada, Minoru; and Tokunaga, Hiroshi, 4,692,871, Cl. 364-470.000.

Takano, Masami; and Tamura, Yukio, to Sawafuji Electric Co., Inc. Resin molded rotor for a magneto generator. 4,710,659, 12-1-87, Cl. 310-153.000.

Takano, Masao: *See*—
Tamura, Kaoru; Takano, Masao; and Kimura, Tsutomu, 4,687,932, Cl. 250-327.200.

Takano, Masayuki; and Ishiyama, Kazuhumi, to Tokyo Shibaura Denki Kabushiki Kaisha. Ultrasonic probe device. 4,688,578, 8-25-87, Cl. 128-660.000.

Takano, Nanako: *See*—
Koseki, Hiroyuki; Watanabe, Jun; and Takano, Nanako, 4,669,520, Cl. 152-527.000.

Takano, Nobuyoshi: *See*—
Mitsumaki, Hiroshi; Takano, Nobuyoshi; and Ono, Naoya, 4,680,270, Cl. 436-52.000.
Mitsumaki, Hiroshi; Ono, Naoya; Shindo, Isao; and Takano, Nobuyoshi, 4,696,183, Cl. 73-19.000.
Yoshida, Kasumi; Takano, Nobuyoshi; and Ono, Naoya, 4,708,940, Cl. 436-45.000.

Takano, Satoshi: *See*—
Sawada, Kazuo; Takano, Satoshi; and Ezaki, Shigeo, 4,673,790, Cl. 219-69.00W.

Takano, Shozo: *See*—
Sawada, Tsutomu; Yoshida, Kyoji; Takano, Shozo; and Fujikawa, Masanori, 4,664,658, Cl. 604-266.000.

Takano, Shuntaro: *See*—
Imaizumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko; Murotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka, Kiyoshi; Takano, Shuntaro; and Saikawa, Isamu, 4,656,287, Cl. 548-194.000.
Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, 4,704,459, Cl. 546-123.000.

Takano, Takeshi: *See*—
Kasori, Mituo; Shinozaki, Kazuo; Anzai, Kazuo; and Takano, Takeshi, 4,698,320, Cl. 501-96.000.

Takano, Tetsuo. Miniaturized electric contact assembly for microswitch. 4,634,824, 1-6-87, Cl. 200-266.000.

Takano, Toshio; and Sakakiyama, Ryuzo, to Fuji Jukogyo Kabushiki Kaisha. Hydraulic control system for an infinitely variable belt-drive transmission. 4,644,827, 2-24-87, Cl. 74-866.000.

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Takano, Toshio: *See*—
Sakakiyama, Ryuzo; and Takano, Toshio, 4,680,712, Cl. 364-424.100.

Takano, Tsunesuke, to Kabushiki Kaisha T an T. Fuse assembly. 4,672,352, 6-9-87, Cl. 337-264.000.

Takano, Yoshiaki; and Kinoshita, Keichi, to Minolta Camera Kabushiki Kaisha. Copying machine. 4,697,917, 10-6-87, Cl. 355-14.00R.

Takano, Yoshiya; Hoshi, Yoshikazu; Abe, Takao; and Tomozaki, Ryozoo, to Hitachi, Ltd. Fuel injection pump having sintered cam ring secured to body by bolt. 4,687,425, 8-18-87, Cl. 417-462.000.

Takanohashi, Kunio; Yoshida, Tsuneaki; and Fuji, Shoichiro, to Takeda Chemical Industries, Ltd. Thiazole derivatives. 4,695,639, 9-22-87, Cl. 548-165.000.

Takanoo, Miyako: *See*—
Kawakubo, Fumio; Takanoo, Miyako; Yukimoto, Sadao; and Isayama, Katsuhiko, 4,687,818, Cl. 525-404.000.

Takanori, Kohno, to Copal Company Limited. Strobo control circuit. 4,684,234, 8-4-87, Cl. 354-421.000.

Takao, Hideaki: *See*—
Sekimura, Nobuyuki; Kamio, Masaru; Takao, Hideaki; Motoi, Taiko; and Murata, Tatsuo, 4,712,874, Cl. 350-339.00F.

Takao, Hiroyoshi; Yoshida, Nobuyuki; and Imai, Akio, to Sumitomo Chemical Company, Limited. Diene elastomer compositions. 4,647,614, 3-3-87, Cl. 524-526.000.

Takao, Hisoka; Sato, Toshiro; Saito, Seiichi; and Hayashi, Toshinari, to Fujitsu Limited. GaAs MESFET logic buffers using enhancement and depletion FETs. 4,707,622, 11-17-87, Cl. 307-448.000.

Takao Kawamura: *See*—
Kawamura, Takao; Ejima, Keibun; Miyamoto, Naooki; Higuchi, Hisashi; and Nishiguchi, Yasuo, 4,689,284, Cl. 430-84.000.

Takao, Kenji, to Rheon Automatic Machinery Co., Ltd. Apparatus for transferring shaped articles. 4,690,269, 9-1-87, Cl. 198-460.000.

Takao, Kijima: *See*—
Ando, Fumitaka; and Takao, Kijima, 4,652,009, Cl. 280-701.000.

Takao, Kunihiko; Kawashima, Kenichi; Nakamura, Yozo; and Hayase, Isao, to Hitachi, Ltd. Vane type compressor with volume control. 4,636,148, 1-13-87, Cl. 417-286.000.

Takao, Kunihiko; Kawashima, Kenichi; and Nakamura, Yozo, to Hitachi, Ltd. Vane type compressor with fluid pressure biased vanes. 4,653,991, 3-31-87, Cl. 418-82.000.

Takao, Kunihiko; Kawashima, Kenichi; Nakamura, Yozo; and Kishi, Atsuo, to Hitachi, Ltd. Slide vane type compressor with increased suction part-cross-sectional area. 4,702,684, 10-27-87, Cl. 418-259.000.

Takao, Makoto: *See*—
Nakamura, Usao; Takao, Makoto; Ueno, Etsuko; and Kawaguchi, Kichitaro, 4,636,471, Cl. 435-280.000.

Takao, Mitsunori, to Nippondenso Co., Ltd. Method and apparatus for discriminating operativeness/inoperativeness of an air-fuel ratio sensor. 4,677,955, 7-7-87, Cl. 123-489.000.

Takao, Mitsunori, to Nippondenso Co., Ltd. Apparatus for controlling an idle speed of an internal combustion engine. 4,708,1.9, 11-24-87, Cl. 123-339.000.

Takao, Mitsunori: *See*—
Kamei, Eiichi; Namba, Hideaki; Takao, Mitsunori; Ohba, Masahiro; Yonekawa, Masao; and Kiyono, Masashi, 4,653,449, Cl. 123-478.000.

Takao, Osamu; Yoshida, Minoru; and Ono, Seiichi, to Sanyo Electric Co., Ltd. Tape loading/unloading arrangement for magnetic recording and/or reproducing apparatus. 4,672,479, 6-9-87, Cl. 360-95.000.

Takao, Osamu: *See*—
Kodama, Yoshimi; Urakami, Toyozo; and Takao, Osamu, 4,656,540, Cl. 360-85.000.

Takao, Seiji: *See*—
Kobashi, Toshiyuki; and Takao, Seiji, 4,658,004, Cl. 526-341.000.
Kobashi, Toshiyuki; and Takao, Seiji, 4,659,529, Cl. 264-182.000.

Takao, Seiyu: *See*—
Seki, Masahiko; Nakatani, Hiroshi; Kogumasaka, Katsuya; Takao, Seiyu; Arimitsu, Isao; and Fujimori, Hisanori, 4,653,065, Cl. 373-80.000.

Takao, Shingo: *See*—
Ishiwatari, Takeo; Sasaki, Yasuchiyo; Misawa, Rokuro; and Takao, Shingo, 4,641,690, Cl. 141-4.000.

Takao, Shoichi: *See*—
Nakaoji, Kazuhiko; Kamao, Mitsugu; Itoh, Hayami; Tatsumi, Shuhei; and Takao, Shoichi, 4,706,891, Cl. 241-16.000.
Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.

Takao, Takeda; Hitoshi, Yamazaki; Shizuo, Nakano; Kouzi, Yamamoto; Hiroshi, Ito; and Jun, Imai, to Mitsubishi Denki Kabushiki Kaisha. Low pressure discharge lamp. 4,645,972, 2-24-87, Cl. 313-634.000.

Takao, Takeda: *See*—
Hitoshi, Yamazaki; Takao, Takeda; Shizuo, Nakano; Kouji, Yamamoto; Hiroshi, Ito; and Jun, Imai, 4,659,962, Cl. 313-493.000.

Takaoka, Iwane: *See*—
Kanno, Masashi; Komori, Katsufumi; Tatekawa, Masaichirou; Miwa, Kiyohito; and Takaoka, Iwane, 4,707,109, Cl. 355-7.000.

Takaoka, Makoto: *See*—
Ozawa, Kunitaka; Nakamura, Takashi; Katayama, Akira; Hatanaka, Katsunori; Mori, Tetsuzo; and Takaoka, Makoto, 4,716,421, Cl. 346-140.00R.

Takaoka, Michio; Motai, Tsuneaki; Ono, Motoyuki; Kaji, Isao; Hasegawa, Masakazu; Tan, Masayuki; and Kurata, Masaru, to Fujikura Ltd. Apparatus for jointing CV cables. 4,701,117, 10-20-87 Cl. 425-116.000.

Takaoka, Motoaki: *See*—
Hirano, Masao; Takaoka, Motoaki; and Shimura, Mikihiko, 4,679,157, Cl. 364-557.000.

Takaoka, Tadashi: *See*—
Nohmi, Makoto; Miyamoto, Shoji; Takaoka, Tadashi; and Oshima, Hiroyasu, 4,684,859, Cl. 318-317.000.

Takaoka, Takashi; Koyahara, Satoru; and Saito, Tetsuo, to Kabushiki Kaisha Toshiba. Optical recording medium. 4,682,321, 7-21-87, Cl. 369-284.000.

Takaoka, Takashi: *See*—
Yoshino, Yoshio; Tsuchihashi, Koji; Omae, Yoshihiro; Tsujikawa, Kenzo; Takaoka, Takashi; and Yamaguchi, Yukio, 4,655,878, Cl. 201-1.000.

Takaoka, Yoshitsugu: *See*—
Takabayashi, Kuniaki; Takaoka, Yoshitsugu; Hori, Kouichi; Shimotakahara, Masaki; Okada, Kikujiro; and Shiino, Satoru, 4,710,161, Cl. 494-84.000.

Takaoka, Yoshiyasu: *See*—
Sasao, Isamu; and Takaoka, Yoshiyasu, 4,651,926, Cl. 239-585.000.
Sasao, Isamu; and Takaoka, Yoshiyasu, 4,687,142, Cl. 239-533.300.
Sasao, Isamu; and Takaoka, Yoshiyasu, 4,688,312, Cl. 29-157.10R.

Takara Company: *See*—
Fujiyama, Kunio, 4,711,486, Cl. 297-71.000.

Takara Co., Ltd.: *See*—
Nagaoka, Junichi, 4,710,148, Cl. 446-464.000.
Oda, Nobuo, 4,636,178, Cl. 446-462.000.
Ohno, Kouzin, 4,674,990, Cl. 446-376.000.
Ohno, Kouzin, 4,680,018, Cl. 446-376.000.
Urakawa, Shigeki; and Inomata, Noriyuki, 4,684,355, Cl. 446-464.000.
Wakase, Hiroshi, 4,710,147, Cl. 446-464.000.
Yoke, Hideaki, 4,642,064, Cl. 446-94.000.

Takara Kogyo Co., Ltd.: *See*—
Takarabe, Takashi; and Ueda, Yoshihiko, 4,708,792, Cl. 210-150.000.

Takara Shuzo Co., Ltd.: *See*—
Noda, Satoko; and Susumu, Matsui, 4,698,306, Cl. 435-192.000.
Obayashi, Akira; Hiraoka, Nobutsugu; Kita, Keiko; and Nakajima, Hiroshi, 4,668,631, Cl. 435-199.000.
Sugimoto, Naotsugu; Toru, Kazutoshi; Tanahashi, Yuka; Morita, Hideo; Watanabe, Yuzo; Yamamoto, Kohei; and Kainuma, Teisuke, 4,656,044, Cl. 426-592.000.
Yokoyama, Sadaji; and Suye, Shinichiro, 4,661,448, Cl. 435-90.000.

Takarabe, Takashi; and Ueda, Yoshihiko, to Takara Kogyo Co., Ltd.; Takarabe, Takashi; and Ueda, Yoshihiko. Filter medium. 4,708,792, 11-24-87, Cl. 210-150.000.

Takarada, Mitsuhiro; Ishii, Hiroshi; Arai, Yutaka; and Hamano, Takashi, to Shin-Etsu Chemical Co, Ltd.; and Gun-ei Chemical Industry Co., Ltd. Fibrous material-based friction member. 4,657,951, 4-14-87, Cl. 523-153.000.

Takasago, Hayato: *See*—
Takada, Mitsuyuki; Morihiro, Yoshiyuki; and Takasago, Hayato, 4,643,798, Cl. 156-630.000.
Takada, Mitsuyuki; Endo, Atsushi; and Takasago, Hayato, 4,645,734, Cl. 430-315.000.
Takada, Mitsuyuki; Morihiro, Yoshiyuki; and Takasago, Hayato, 4,685,203, Cl. 29-620.000.

Takasago, Masahiro: *See*—
Muraoka, Koji; Maeda, Takeshi; Takasago, Masahiro; and Kaneda, Tokuya, 4,650,332, Cl. 356-374.000.

Takasago Medical Industry Co., Ltd.: *See*—
Inoue, Noboru; and Miura, Yoshio, 4,708,141, Cl. 128-334.00R.
Sakaguchi, Ushio; Nakano, Masahiro; and Uchida, Mitsukuni, 4,705,039, Cl. 128-334.00C.

Takasago Perfumery Co., Ltd.: *See*—
Ishii, Hiroshi; and Hosoda, Bunichiro, 4,678,603, Cl. 252-522.00R.
Moroe, Michio, 4,634,588, Cl. 424-48.000.
Okano, Tamon; Kumobayashi, Hidenori; Akutagawa, Susumu; Kiji, Jitsuo; Konishi, Hisatoshi; Fukuyama, Keiichi; and Shimano, Yasunobu, 4,705,895, Cl. 564-15.000.
Otsuka, Seimosuke; Tani, Kazuhide; Yamagata, Tsuneshi; Akutagawa, Susumu; Kumobayashi, Hidenori; and Yagi, Misao, 4,695,631, Cl. 544-170.000.
Yoshikawa, Sadao; Saburi, Masahiko; Ikariya, Takao; Ishii, Youchi; and Akutagawa, Susumu, 4,691,037, Cl. 556-18.000.

Takasago Thermal Engineering Co., Ltd.: *See*—
Hashimoto, Takayoshi, 4,693,175, Cl. 98-31.600.

Takasaka, Nobuo: *See*—
Kondow, Kiyohiro; Takasaka, Nobuo; and Hida, Yoshinori, 4,660,927, Cl. 350-96.340.

Takasaki, Akira: *See*—
Nagasaka, Yasumasa; and Takasaki, Akira, 4,699,581, Cl. 425-155.000.

Takasaki, Junsuke: *See*—
Yasuda, Akira; Ikehira, Junko; Itoh, Kenji; Takasaki, Junsuke; and Tsunoyama, Kozou, 4,670,065, Cl. 148-2.000.

Takasaki, Kunihiko, to Takigen Seizou Co. Ltd. Latch and lock mechanism for door handle. 4,650,230, 3-17-87, Cl. 292-173.000.

Takasaki, Kunihiko, to Takigen Seizou Co. Ltd. Door handle latch and lock mechanism. 4,704,882, 11-10-87, Cl. 70-215.000.

Takasaki, Masaru: *See*—
Takatsuji, Kouichi; and Takasaki, Masaru, 4,674,014, Cl. 362-80.000.

Takasaki, Mitsuhiro; and Murakami, Hiroya, to Hitachi, Ltd. Method for punching ceramic green sheet. 4,653,365, 3-31-87, Cl. 83-50.000.

Takasaki, Ryuichiro: *See*—
Miura, Konoe; Nagasaka, Hideki; Takahashi, Noriaki; Ochui, Tameichi; and Takasaki, Ryuichiro, 4,650,741, Cl. 430-192.000.

Takasaki, Yo: *See*—
Matsuoka, Nobuyuki; Takasaki, Yo; Minamitsu, Sadao; and Motoyama, Katsumi, 4,661,743, Cl. 313-496.100.

Takasaki, Yoshimi: *See*—
Aagano, Toshitaka; and Takasaki, Yoshimi, 4,642,462, Cl. 250-327.200.
Aagano, Toshitaka; and Takasaki, Yoshimi, 4,655,590, Cl. 356-72.000.
Aagano, Toshitaka; and Takasaki, Yoshimi, 4,687,937, Cl. 250-484.100.

Takasaki, Yoshiyuki, to Agency of Industrial Science & Technology and Ministry of International Trade & Industry. Pullulanase-like enzyme, method for preparation thereof, and method for saccharification of starch therewith. 4,657,865, 4-14-87, Cl. 435-202.000.

Takasaki, Yukio: *See*—
Kusano, Chushirou; Ishioka, Sachio; Imamura, Yoshinori; Takasaki, Yukio; Ogawa, Hirofumi; Makishima, Tatsuo; and Hirai, Tadaaki, 4,636,682, Cl. 313-386.000.

Takasawa, Kazuhiro, to Alps Electric Co., Ltd. Slide-action switch with movable contact lifting means. 4,704,503, 11-3-87, Cl. 200-16.00B.

Takasawa, Ryuichi: *See*—
Matsuo, Shigeru; Murakami, Tomoyoshi; and Takasawa, Ryuichi, 4,703,104, Cl. 528-211.000.

Takasawa, Seigo; and Morikawa, Yasushi, to Shin Nenryoyu Kaihatsu Gijutsu Kenkyu Kumiai. Process for the preparation of cellulase 4,634,670, 1-6-87, Cl. 435-209.000.

Takasawa, Seigo: *See*—
Hirata, Tadashi; Hashimoto, Yukio; Ogasa, Takehiro; Kobayashi, Shigeru; Sato, Akira; Sato, Kiyoshi; and Takasawa, Seigo, 4,663,450, Cl. 540-205.000.

Takasawa, Yosuke: *See*—
Mukai, Yasuo; Takasawa, Yosuke; Shimizu, Masanobu; and Shinohara, Shunya, 4,689,269, Cl. 428-413.000.

Takase Dyeing & Printing Works, Ltd.: *See*—
Okayasu, Shinpei; Uchikoshi, Shinichi; and Nobatake, Atsuo, 4,681,591, Cl. 8-115.680.

Takase, Fuyuto: *See*—
Hirai, Hiromu; Yamaguchi, Takashi; Takase, Fuyuto; and Yoshida, Tomomasa, 4,667,139, Cl. 318-687.000.

Takase, Hidetomo, to Tokyo Shibaura Denki Kabushiki Kaisha. Nuclear magnetic resonance diagnostic apparatus. 4,661,776, 4-28-87, Cl. 324-309.000.

Takase, Hiroshi; Imaizumi, Masaki; and Fujii, Toru, to Olympus Optical Co., Ltd. Vari-focal photographic lens system of lens group exchange type. 4,668,054, 5-26-87, Cl. 350-422.000.

Takase, Hiroshi; Imaizumi, Masaki; and Fujii, Toru, to Olympus Optical Co., Ltd. Vari-focal photographic lens system of rear lens group exchange type. 4,715,693, 12-29-87, Cl. 350-422.000.

Takase, Hiroshi: *See*—
Fujii, Toru; Takase, Hiroshi; and Imaizumi, Masaki, 4,708,442, Cl. 350-422.000.
Imaizumi, Masaki; Takase, Hiroshi; and Fujii, Toru, 4,653,870, Cl. 350-422.000.

Takase, Iwao: *See*—
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,678,521, Cl. 148-11.50F.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,689,091, Cl. 148-11.50F.

Takase, Jun: *See*—
Kato, Shogo; Takase, Jun; Okada, Masanori; and Kuramochi, Kouziro, 4,653,346, Cl. 74-701.000.

Takase, Kahei: *See*—
Yasunami, Masaburo; Takase, Kahei; Shinji, Akira; Mimura, Toru; Torii, Kunio; Kobayashi, Takaaki; Okutsu, Masaru; and Meguro, Takeshi, 4,656,194, Cl. 514-693.000.

Takase, Kohichi: *See*—
Mortoka, Tohru; Terasaki, Hidenori; Akasu, Hiroyuki; Nakano, Akiyoshi; and Takase, Kohichi, 4,650,457, Cl. 604-4.000.

Takase, Masayuki: *See*—
Haga, Toru; Nagano, Eiki; Takase, Masayuki; and Sato, Ryo, 4,668,278, Cl. 71-92.000.

Takase, Muneaki: *See*—
Cai, Jun-Chao; and Takase, Muneaki, 4,650,799, Cl. 514-255.000.

Takase, Sadao: Kawamura, Yoshihisa; and Nakagawa, Toyoaki, to Nissan Motor Company, Limited. Fuel injection detecting system for a diesel engine. 4,669,440, 6-2-87, Cl. 123-494.000.

Takase, Sadao: *See*—
Hosaka, Akio; and Takase, Sadao, 4,703,428, Cl. 364-424.100.
Takeda, Hitoshi; and Takase, Sadao, 4,715,145, Cl. 74-731.000.

Takase, Satoshi: *See*—
Ohmori, Susumu; Yagi, Akira; and Takase, Satoshi, 4,652,282, Cl. 55-155.000.

Takase, Shigehiro: *See*—
Kohsaka, Masanobu; Terano, Hiroshi; Komori, Tadaaki; Iwami, Morita; Yamashita, Michio; Hashimoto, Masasui; Uchida, Itsuo; and Takase, Shigehiro, 4,645,765, Cl. 514-233.000.

Takase, Tsuneyoshi: *See*—
Fujinuma, Katsumi; Takase, Tsuneyoshi; and Hayashi, Yoriyuki, 4,677,976, Cl. 128-201.280.

Takashi, Imuro: *See*—
Sasaki, Kiichi; and Takashi, Imuro, 4,638,534, Cl. 24-683.000.

Takashi, Ito: *See*—
Kenji, Yabusaki; Hitoshi, Tozawa; Akira, Noda; and Takashi, Ito, 4,708,477, Cl. 356-222.000.

Takashi, Shiori; Katsuhiko, Kobayashi; and Hideo, Tago, to Tokyo Kogaku Kikai Kabushiki Kaisha. Automatic perimeter. 4,679,920, 7-14-87, Cl. 351-226.000.

Takashima, Akira: *See*—
Makino, Hiroshi; Yoshino, Tsunemi; Kihara, Tadaharu; and Takashima, Akira, 4,695,893, Cl. 358-227.000.

Takashima, Hiroshi: *See*—
Watanabe, Tsutomu; Saya, Tsutomu; Takashima, Hiroshi; Someya, Ryoichi; and Kobayashi, Hiroaki, 4,677,330, Cl. 310-154.000.

Takashima, Kiyoshi; Suzuki, Isao; Yoshida, Masashi; Tanaka, Ryutatsu; Masumitsu, Noriyuki; Kinoshita, Kazuhiro; and Ishii, Hiromi, to Nippon Steel Corporation. Method for addition of low-melting point metal. 4,686,081, 8-11-87, Cl. 420-29.000.

Takashima, Kohki: *See*—
Matsumoto, Kazuo; and Takashima, Kohki, 4,642,313, Cl. 514-374.000.

Takashima, Masanobu; Satomura, Masato; Iwakura, Ken; and Igarashi, Akira, to Fuji Photo Film Co., Ltd. Recording material. 4,707,464, 11-17-87, Cl. 503-216.000.

Takashima, Mitsuru, to Sony Corporation. Optical pickup having a driving unit for moving objective lens. 4,643,522, 2-17-87, Cl. 350-255.000.

Takashima, Shigekazu; and Sakamoto, Tsutomu, to Kabushiki Kaisha Toshiba. Memory control apparatus for a CRT controller. 4,701,864, 10-20-87, Cl. 364-521.000.

Takashima, Shingo: *See*—
Sakai, Shoji; Noda, Koshi; Nakata, Kazuhiro; and Takashima, Shingo, 4,662,859, Cl. 464-88.000.

Takashima, Susumu; Tokimoto, Toyotarou; and Kurosawa, Kazuyuki, to Casio Computer Co., Ltd. Electronic musical instrument. 4,633,748, 1-6-87, Cl. 84-1.010.

Takashima, Susumu: *See*—
Kanke, Takao; Takashima, Susumu; and Inagaki, Naoki, 4,653,099, Cl. 381-51.000.
Ninomiya, Masao; Takashima, Susumu; Fukushima, Kazumasa; Yuyama, Masami; and Kurosawa, Kazuyuki, 4,712,243, Cl. 381-43.000.

Takashima, Takahiro: *See*—
Sugimoto, Koichi; Kamei, Kiyoshi; Murakami, Yotaro; Sugimoto, Takashi; Nishimura, Takashi; and Takashima, Takahiro, 4,634,477, Cl. 148-402.000.

Takashima, Takashi, to Bando Chemical Industries, Ltd. V belt with blocks having load carrying engaging means. 4,655,732, 4-7-87, Cl. 474-201.000.

Takashima, Toshiharu: *See*—
Murata, Kazushi; Takashima, Toshiharu; and Nakashima, Kunimichi, 4,637,108, Cl. 29-33.00P.

Takashima, Toshiyuki: *See*—
Kondo, Kiyoshi; Takashima, Toshiyuki; and Suda, Minoru, 4,701,539, Cl. 549-294.000.

Takashima, Yosuke, to NEC Corporation. Adaptive pseudo halftone generator. 4,701,806, 10-20-87, Cl. 358-283.000.

Takashima, Yutaka: *See*—
Takagi, Hisamitsu; Hanawa, Tetsuya; Nishiyama, Akihide; and Takashima, Yutaka, 4,700,383, Cl. 379-421.000.

Takashina, Shinji: *See*—
Shino, Satoshi; Sasahara, Akira; Ishikawa, Kiyoshi; Shibasaki, Shigeru; and Takashina, Shinji, 4,660,820, Cl. 271-9.000.

Takasu, Katsuji; and Okazaki, Kiyoshi, to Tokyo Shibaura Denki Kabushiki Kaisha. Diagnostic apparatus. 4,675,731, 6-23-87, Cl. 358-111.000.

Takasu, Katsuji: *See*—
Osada, Yoshiyuki; Tsuda, Hisanori; Sano, Masafumi; Omata, Satoshi; Takasu, Katsuji; and Hirai, Yutaka, 4,645,684, Cl. 427-38.000.

Takasu, Masao: *See*—
Kato, Ippei; Takasu, Masao; and Maruyama, Nobuo, 4,645,566, Cl. 162-138.000.

Takasu, Noboru: *See*—
Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, 4,688,733, Cl. 242-4.00R.
Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, 4,691,872, Cl. 242-4.00R.
Ishida, Masahiro; Kato, Shunichi; and Takasu, Noboru, 4,694,999, Cl. 242-4.00R.

Takasu, Shigeo: *See*—
Sakata, Masataka; Takasu, Shigeo; and Ikimi, Yoshihiro, 4,683,987, Cl. 187-9.00E.

Takasu, Toshimitsu: *See*—
Suzuki, Toshio; Saegusa, Takeshi; Takasu, Toshimitsu; Nakayama, Yuji; and Yamaguchi, Yutaka, 4,665,957, Cl. 141-39.000.

Takasu, Yoshio; Oguchi, Yoshihiro; and Katagiri, Kazuharu, to Canon Kabushiki Kaisha. Image forming method and image bearing member. 4,693,951, 9-15-87, Cl. 430-31.000.

Takasu, Yoshio: *See*—
Katagiri, Kazuhara; Oguchi, Yoshihiro; Ohtake, Takeshi; Arao, Kozo; Kitahara, Makoto; and Takasu, Yoshio, 4,673,630, Cl. 430-72.000.
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Takasue, Takashi: *See*—
Matsui, Kazumi; Otobe, Minoru; Takasue, Takashi; Iwasaki, Masami; and Oda, Masaki, 4,665,831, Cl. 104-165.000.

Takasuga, Shunzo: *See*—
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Takasugi, Atsushi, to Oki Electric Industry Co., Ltd. Data I/O circuit with higher integration density for DRAM. 4,646,272, 2-24-87, Cl. 365-233.000.

Takasugi, Eiji: *See*—
Suzuki, Shinichi; Hara, Masato; Tsuda, Koji; Takasugi, Eiji; Kinba, Toshitumi; and Kaneko, Atsumi, 4,702,008, Cl. 33-1.00T.

Takasugi, Hisashi: *See*—
Takaya, Takao; Takasugi, Hisashi; Yamanaka, Hideaki; Miyai, Kenji; and Inoue, Yoshikazu, 4,639,448, Cl. 514-226.000.
Takaya, Takao; Takasugi, Hisashi; and Yamanaka, Hideaki, 4,649,136, Cl. 514-202.000.
Takaya, Takao; and Takasugi, Hisashi, 4,649,146, Cl. 514-307.000.
Takaya, Takao; Takasugi, Hisashi; Tsuji, Kiyoshi; and Chiba, Toshiyuki, 4,698,337, Cl. 514-206.000.
Takaya, Takao; Takasugi, Hisashi; Kuno, Atsushi; and Sugiyama, Yoshie, 4,698,340, Cl. 514-222.000.
Takaya, Takao; Takasugi, Hisashi; Masugi, Takashi; Yamanada, Hideaki; and Kawabata, Kohji, 4,705,851, Cl. 540-215.000.

Takasugi, Mitsuo, to Colpo Co., Ltd. Cartridge with plug opening mechanism. 4,681,243, 7-21-87, Cl. 222-83.000.

Takasugi, Nobuhiro: *See*—
Watanabe, Kenji; Yamazaki, Isamu; Kyomasu, Ryuichi; Takasugi, Nobuhiro; Mimata, Tsutomu; and Kakutani, Osamu, 4,674,670, Cl. 228-102.000.

Takasugi, Nobuhito: *See*—
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Takasugi, Sumio: *See*—
Kageyama, Kunio; and Takasugi, Sumio, 4,695,508, Cl. 428-261.000.

Takasugi, Tsuneji, to Citizen Watch Co., Ltd. Method of making a watchcase. 4,659,897, 4-21-87, Cl. 219-93.000.

Takasugi, Wasao; Shinomura, Ryuichi; and Yokozawa, Norio, to Hitachi, Ltd.; and Hitachi Medical Corporation. Input circuit in ultrasonic apparatus. 4,680,498, 7-14-87, Cl. 310-319.000.

Takasugi, Wasao: *See*—
Sugiyama, Hisataka; Shigematsu, Kazuo; Maeda, Takeshi; Satoh, Atsushi; and Takasugi, Wasao, 4,646,103, Cl. 346-1.100.

Takasuka, Yutaka; Mohri, Kunihiko; and Kawaguchi, Akiko, to Pola Chemical Industries, Inc. Coated pigment and cosmetic materials comprising the same. 4,648,908, 3-10-87, Cl. 106-308.00F.

Takasuka, Yutaka; Mohri, Kunihiko; and Kawaguchi, Akiko, to Pola Chemical Industries Inc. Stick cosmetics containing coated pearlescent pigments. 4,710,375, 12-1-87, Cl. 424-69.000.

Takasumi, Masakazu: *See*—
Sato, Kazuo; Shiohata, Kouki; Matsushita, Osami; Kikuchi, Katsuaki; Takasumi, Masakazu; Sato, Ichiya; and Kaneko, Ryoichi, 4,685,335, Cl. 73-660.000.

Takata, Akira, to Ricoh Company, Ltd. EPROM memory device having a test circuit. 4,651,304, 3-17-87, Cl. 365-201.000.

Takata, Akira; and Matsuoka, Shigeki, to Ricoh Co., Ltd. Power supply switching circuit. 4,700,125, 10-13-87, Cl. 323-317.000.

Takata, Hajime: *See*—
Nakano, Akihiko; Hibino, Takeshi; Takata, Hajime; and Yoshida, Manabu, 4,705,911, Cl. 136-251.000.

Takata, Harry H., to AG-CHEM Equipment Co., Inc. Hydraulic metering control. 4,700,895, 10-20-87, Cl. 239-664.000.

Takata, Hideyuki; Tokushima, Yasuo; Katoh, Kaname; and Tachi, Hideo, to Toyota Motor Corporation; and Trinity Industrial Corporation. Method for heating a hot air circulating-type of furnace for baking and drying coatings on articles. 4,670,994, 6-9-87, Cl. 34-39.000.

Takata, Hiroshi: *See*—
Yanagiuchi, Noboru; Adachi, Shigeo; Inoue, Masatoshi; Takata, Hiroshi; and Matsuda, Toyoshi, 4,637,270, Cl. 74-336.500.

Takata, Hiroyuki: *See*—
Sakata, Isao; Nakajima, Susumu; Koshimazi, Koichi; Samejima, Natsuki; Inohara, Kazumi; and Takata, Hiroyuki, 4,709,022, Cl. 540-145.000.

Takata, Ikunori; and Kitamura, Takayuki, to Mitsubishi Denki Kabushiki Kaisha. Power semiconductor device. 4,652,902, 3-24-87, Cl. 357-46.000.

Takata, Koji; Nishiyama, Yukinori; and Shinomiya, Takashi, to Sumitomo Electric Industries, Ltd. Booster. 4,667,476, 5-26-87, Cl. 60-545.000.

Takata, Koji; and Nishiyama, Yukinori, to Sumitomo Electric Industries, Ltd. Automobile braking force control apparatus. 4,693,521, 9-15-87, Cl. 303-103.000.

Takata, Koji; and Nishiyama, Yukinori, to Sumitomo Electric Industries, Limited. Brake pressure control system. 4,714,299, 12-22-87, Cl. 303-100.000.

Takata, Kuniaki: *See*—
Nakahara, Akihiko; Takata, Kuniaki; and Iseki, Yuji, 4,680,355, Cl. 526-243.000.

Takata, Mamoru: *See*—
Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji; Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.
Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Takata, Mamoru, 4,655,182, Cl. 123-440.000.

Takata, Naoto: *See*—
Kanazawa, Hirotaka; Takatani, Teruhiko; and Takata, Naoto, 4,657,102, Cl. 180-140.000.

Takata, Nobuharu; and Kurita, Kohji, to Mitsubishi Denki Kabushiki Kaisha. Controlling system for a pole change electric motor. 4,644,242, 2-17-87, Cl. 318-771.000.

Takata, Nobuharu, to Mitsubishi Denki Kabushiki Kaisha. Variable frequency power source operating system. 4,651,072, 3-17-87, Cl. 318-440.000.

Takata, Nobuharu, to Mitsubishi Denki Kabushiki Kaisha. Variable frequency power unit controlling system. 4,691,156, 9-1-87, Cl. 318-798.000.

Takata, Nobuharu: *See*—
Hirosaki, Yoshihiko; and Takata, Nobuharu, 4,637,296, Cl. 98-1.000.

Takata, Syuichi: *See*—
Takahashi, Haruji; Goto, Shigeo; Takata, Syuichi; Shibata, Mitsuaki; and Hata, Tomihira, 4,661,171, Cl. 148-6.350.

Takata, Yatsuka; Yamada, Tadamasa; and Kikuchi, Eiki, to Aichi Steel Works, Ltd.; and Koyo Seiko Kabushiki Kaisha. Bearing steel and method of manufacturing the same. 4,642,219, 2-10-87, Cl. 420-104.000.

Takata, Yatsuka; Yamada, Tadamasa; and Kikuchi, Eiki, to Aichi Steel Works, Ltd.; and Koyo Seiko Kabushiki Kaisha. Method of purifying a bearing steel. 4,702,767, 10-27-87, Cl. 75-49.000.

Takata, Yoshirou: *See*—
Goto, Teruo; Takata, Yoshirou; Muraji, Kenji; and Higashi, Mikio, 4,698,622, Cl. 340-648.000.

Takatani, Ryoji: *See*—
Amagasa, Nobutada; Takatani, Ryoji; Inoo, Hiroshi; Suzuki, Kazuchi; and Kiriyama, Mitsuo, 4,646,131, Cl. 357-79.000.

Takatani, Teruhiko: *See*—
Kanazawa, Hirotaka; Takatani, Teruhiko; Furutani, Shigeki; Chikuma, Isamu; Shimada, Satoru; and Eda, Hiroshi, 4,646,867, Cl. 180-140.000.
Kanazawa, Hirotaka; Takatani, Teruhiko; and Takata, Naoto, 4,657,102, Cl. 180-140.000.

Takatoo, Masao: *See*—
Kobayashi, Takao; Abe, Shigeo; Bandoh, Tadaaki; Takatoo, Masao; Matsumoto, Hidekazu; and Hara, Hideyuki, 4,644,490, Cl. 364-748.000.

Takatori, Hiroshi; Suzuki, Toshiro; and Tomooka, Keiji, to Hitachi, Ltd. Timing signal extracting circuit. 4,658,217, 4-14-87, Cl. 328-139.000.

Takatori, Hiroshi; Suzuki, Toshiro; Matsubara, Osamu; and Yamada, Izuru, to Hitachi, Ltd. Pulse width generating circuit synchronized with clock signal and corresponding to a reference voltage. 4,687,998, 8-18-87, Cl. 328-58.000.

Takatori Machinery Mfg. Co., Ltd.: *See*—
Kuniki, Toyomi; and Yamaji, Satoru, 4,703,877, Cl. 223-60.000.

Takatori, Naoki: *See*—
Ossaka, Shigenori; and Takatori, Naoki, 4,656,543, Cl. 360-97.000.

Takatori, Yasushi: *See*—
Hara, Toshitami; Sato, Yasushi; Takatori, Yasushi; and Shirai, Yoshiaki, 4,707,705, Cl. 346-75.000.

Takats, Gilbert: *See*—
Bacou, Claude; Baptiste, Rene; Fessel, Henri; Takats, Gilbert; and Cabrol, Christian, 4,714,828, Cl. 250-214.000.

Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, to Dainippon Ink and Chemicals, Inc. Tolan-type nematic liquid crystalline compounds. 4,705,870, 11-10-87, Cl. 549-360.000.

Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, to Dainippon Ink and Chemicals, Inc. Tolan-type nematic liquid crystalline compounds. 4,705,905, 11-10-87, Cl. 585-25.000.

Takatsu, Haruyoshi; Sasaki, Makoto; Tanaka, Yasuyuki; and Sato, Hisato, to Dainippon Ink and Chemicals, Inc. Tolan-type nematic liquid crystalline compounds. 4,713,468, 12-15-87, Cl. 558-411.000.

Takatsu, Haruyoshi: *See*—
Tanaka, Yasuyuki; Takatsu, Haruyoshi; and Takeuchi, Kiyohumi, 4,654,421, Cl. 544-335.000.
Tanaka, Yasuyuki; Takatsu, Haruyoshi; and Takeuchi, Kiyohumi, 4,698,177, Cl. 252-299.630.

Takatsu, Kozo; and Kawata, Noboru, to Research Association for Petroleum Alternatives Development. Process for the production of crystalline silicate ISI-4 using ethylene glycol. 4,657,750, 4-14-87, Cl. 423-329.000.

Takatsu, Kozo: *See*—
Morimoto, Nobuyuki; Takatsu, Kozo; and Sugimoto, Michio, 4,695,440, Cl. 423-328.000.

Takatsu, Norihiko, to Nippon Kogaku K. K. Driving device for interline-transfer CCD for use in electronic still camera. 4,686,572, 8-11-87, Cl. 358-213.130.

Takatsu, Norihiko: *See*—
Kawahara, Atsushi; and Takatsu, Norihiko, 4,696,021, Cl. 377-58.000.

Takatsu, Tamao: *See*—
Shin, Shigeo; Takatsu, Tamao; Saito, Teruhiro; Kikuchi, Akiyoshi; and Nakanishi, Tsuneo, 4,673,123, Cl. 228-263.130.

Takatsuji, Kouichi; and Takasaki, Masaru, to Nissan Motor Co., Ltd. Mounting structure for vehicular lighting unit. 4,674,014, 6-16-87, Cl. 362-80.000.

Takatsuka, Jun: *See*—
Shimizu, Kimihiro; Nakahara, Tsuguji; Kinoshita, Taketoshi; Takatsuka, Jun; and Igarashi, Michiko, 4,640,835, Cl. 424-94.000.

Takatsuka, Keizo: *See*—
Yamamoto, Hiroshi; Suzuki, Hayato; and Takatsuka, Keizo, 4,687,890, Cl. 200-148.000.

Takauchi, Mitsuyoshi; and Takeda, Toshio, to Happy Mishin Seizo Kabushiki Kaisha. Cam-using electronic control sewing machine. 4,658,744, 4-21-87, Cl. 112-466.000.

Takauchi, Mitsuyoshi, to Happy Industrial Corporation. Device for generating stitch forming data in a sewing machine. 4,708,074, 11-24-87, Cl. 112-453.000.

Takauji, Kiyomi; and Kondo, Tatsunori, to Kabushiki Kaisha Kawai Gakki Seisakusho. Formant filter generator for an electronic musical instrument. 4,700,603, 10-20-87, Cl. 84-1.190.

Takauji, Kiyomi: *See*—
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; and Kitamura, Mineo, 4,635,517, Cl. 84-1.010.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Muroguchi, Masafumi, 4,638,706, Cl. 84-1.010.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Muroguchi, Masafumi, 4,638,709, Cl. 84-1.190.
Nagashima, Yoichi; Kondo, Tatsunori; Takauji, Kiyomi; Kitamura, Mineo; Matsushima, Tadashi; Nagashima, Eiji; and Muroguchi, Masafumi, 4,646,611, Cl. 84-1.190.

Takaya, Haruo: *See*—
Okado, Hideo; Shoji, Hiroshi; Takaya, Haruo; Kawamura, Kichinari; and Yamazaki, Yasuyoshi, 4,636,482, Cl. 502-60.000.

Takaya, Sueji: *See*—
Shimomura, Hiroshi; Takaya, Sueji; and Iizuka, Kazuo, 4,699,549, Cl. 407-42.000.

Takaya, Takao; Takasugi, Hisashi; Yamanaka, Hideaki; Miyai, Kenji; and Inoue, Yoshikazu, to Fujisawa Pharmaceutical Co., Ltd. 7-amino-3-[substituted vinyl]-3-cephem-4-carboxylates having antimicrobial activity. 4,639,448, 1-27-87, Cl. 514-226.000.

Takaya, Takao; Takasugi, Hisashi; and Yamanaka, Hideaki, to Fujisawa Pharmaceutical Co., Ltd. Cephem compounds. 4,649,136, 3-10-87, Cl. 514-202.000.

Takaya, Takao; Murata, Masayoshi; and Ito, Kiyotaka, to Fujisawa Pharmaceutical Co., Ltd. 3,4-dihydro-1,3-disubstituted-6-(substituted phenylimino)-2(1H)-pyrimidinone useful as cardiotonic agent and anti-allergic agent. 4,649,142, 3-10-87, Cl. 514-274.000.

Takaya, Takao; and Takasugi, Hisashi, to Fujisawa Pharmaceutical Co., Ltd. Thiazole derivatives and pharmaceutical composition comprising the same. 4,649,146, 3-10-87, Cl. 514-307.000.

Takaya, Takao; Yasuda, Nobuyoshi; Tsutsumi, Hideo; and Matsuda, Keiji, to Fujisawa Pharmaceutical Co., Ltd. Aminoglycoside derivatives. 4,656,160, 4-7-87, Cl. 514-41.000.

Takaya, Takao; Takasugi, Hisashi; Tsuji, Kiyoshi; and Chiba, Toshiyuki, to Fujisawa Pharmaceutical Co., Ltd. Cephem compound-

and processes for preparation thereof. 4,698,337, 10-6-87, Cl. 514-206.000.
Takaya, Takao; Takasugi, Hisashi; Kuno, Atsushi; and Sugiyama, Yoshie, to Fujisawa Pharmaceutical Co., Ltd. Pyrimidine derivatives, processes for preparation thereof and composition containing the same. 4,698,340, 10-6-87, Cl. 514-222.000.
Takaya, Takao; Takasugi, Hisashi; Masugi, Takashi; Yamanada, Hideaki; and Kawabata, Kohji, to Fujisawa Pharmaceutical Co., Ltd. Process for the preparation of 3-phosphoniummethyl-3-cephem compounds. 4,705,851, 11-10-87, Cl. 540-215.000.
Takayama, Akira, to Alps Electric Co., Ltd. Frequency conversion circuit. 4,677,693, 6-30-87, Cl. 455-327.000.
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Tadachi, Akio; and Takayama, Akira, 4,673,895, Cl. 331-99.000.
Takayama, Chiharu. *See*—
Miura, Yoshio; Takayama, Chiharu; Fujishima, Tooru; Oku, Masuo; Kawashima, Tooru; and Kudo, Yoshimichi, 4,669,072, Cl. 369-44.000.
Takayama, Hajime, to Shibazaki Seisakusho Ltd. Method of manufacturing a container cap with a concealed mark. 4,684,426, 8-4-87, Cl. 156-220.000.
Takayama, Hisao. *See*—
Nara, Toshio; Hobo, Suruya; Kashiwada, Masao; Totsuka, Motoyuki; Hoshiai, Takao; Umetani, Katsutoshi; Akamatsu, Kensuke; Inada, Tomohide; and Takayama, Hisao, 4,639,220, Cl. 433-69.000.
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Takayama, Kenzo, to Canon Kabushiki Kaisha. Image forming apparatus. 4,701,043, 10-20-87, Cl. 355-3.0DD.
Takayama, Makoto, to Canon Kabushiki Kaisha. Magnetic recording and reproducing apparatus. 4,665,446, 5-12-87, Cl. 360-62.000.
Takayama, Makoto, to Canon Kabushiki Kaisha. Color adjusting device. 4,679,072, 7-7-87, Cl. 358-80.000.
Takayama, Makoto; and Sakurada, Nobuaki, to Canon Kabushiki Kaisha. Video signal processing system. 4,706,132, 11-10-87, Cl. 358-336.000.
Takayama, Mineo. *See*—
Shiori, Hisanori; Kiuchi, Mitsuhiro; Takayama, Mineo; Homma, Toshio; Nagasaka, Hiroshi; and Kaneko, Yoshikazu, 4,657,775, Cl. 427-38.000.
Takayama, Nobutoshi, to Canon Kabushiki Kaisha. Automatic tracking control device. 4,644,417, 2-17-87, Cl. 360-10.200.
Takayama, Nobutoshi; and Takahashi, Kouji, to Canon Kabushiki Kaisha. Reproducing apparatus. 4,669,005, 5-26-87, Cl. 360-77.000.
Takayama, Nobutoshi; Harigaya, Isao; and Nagasawa, Kenichi, to Canon Kabushiki Kaisha. Information signal recording and reproducing apparatus. 4,675,753, 6-23-87, Cl. 360-27.000.
Takayama, Nobutoshi, to Canon Kabushiki Kaisha. Information signal reproducing apparatus. 4,680,648, 7-14-87, Cl. 360-10.200.
Takayama, Nobutoshi. *See*—
Edakubo, Hiroo; Takayama, Nobutoshi; and Takimoto, Hiroyuki, 4,636,882, Cl. 360-77.000.
Kozuki, Susumu; Nagasawa, Kenichi; Edakubo, Hiroo; Sato, Junichi; and Takayama, Nobutoshi, 4,638,390, Cl. 360-74.100.
Kozuki, Susumu; Takayama, Nobutoshi; Edakubo, Hiroo; Ushiro, Tatsuzo; Takei, Masahiro; and Nagasawa, Kenichi, 4,665,449, Cl. 360-77.000.
Kozuki, Susumu; Takimoto, Hiroyuki; Edakubo, Hiroo; and Takayama, Nobutoshi, 4,691,256, Cl. 360-73.000.
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Takayama Sangyo Co. Ltd.: *See*—
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Takayama, Satoshi, to Kabushiki Kaisha Toshiba. Image sensor manufacturing method. 4,671,853, 6-9-87, Cl. 156-659.100.
Takayama, Shigehiko; Suzuki, Hitomi; Maeuyama, Masanori; Fukushima, Masakazu; and Kurashige, Mitsuhiro, to Hitachi, Ltd.; and Nippon Hoso Kyokai. Image pickup tube. 4,713,588, 12-15-87, Cl. 315-382.000.
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Kudo, Mitsuhiro; Takayama, Shinji; Sawada, Yoshizo; and Ogata, Yasunobu, 4,668,310, Cl. 148-304.000.
Kumasaka, Norriyuki; Fujiwara, Hideo; Otomo, Shigekazu; Yamashita, Takeo; Takayama, Shinji; Saito, Noritoshi; and Kudo, Mitsuhiro, 4,656,547, Cl. 360-126.000.
Takayama, Suguru; and Shigeta, Masao, to TDK Corporation. Core of a noise filter comprised of an amorphous alloy. 4,637,843, 1-20-87, Cl. 420-73.000.
Takayama, Suguru. *See*—
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Takayama, Syuichi, to Olympus Optical Co., Ltd. Calculus disintegrating apparatus. 4,691,706, 9-8-87, Cl. 128-328.000.
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Yamada, Sadao; Takayama, Takeshi; Seshimoto, Osamu; and Yamaguchi, Akira, 4,683,048, Cl. 204-416.000.
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Tominaga, Haruo; Takayama, Teruyuki; Ogura, Yoshio; and Yamaguchi, Tetsuo, 4,686,153, Cl. 428-610.000.
Takayama, Tsutomu; Hashimoto, Seiji; Kaji, Toshio; Suzuki, Masao; and Tojo, Akihiko, to Canon Kabushiki Kaisha. Capacitor coupled circuit. 4,682,232, 7-21-87, Cl. 358-172.000.
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Kato, Tokuzo; Takayama, Tsutomu; and Kaji, Toshio, 4,638,350, Cl. 358-29.000.
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Takayama, Yoshihisa; Fuji, Shigeru; Kawauchi, Kazuyuki; and Yoshida, Toshihiko, to Fujitsu Limited. Gate array integrated device having mixed single column type and matrix type arrays. 4,661,815, 4-28-87, Cl. 340-825.860.
Takayama, Yoshihisa; Fuji, Shigeru; and Tanabe, Tomoaki, to Fujitsu Limited. Gate array type semiconductor integrated circuit device. 4,701,777, 10-20-87, Cl. 357-42.000.
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Takayanagi, Katsumi, to Alps Electric Co., Ltd. Network resistor unit. 4,654,628, 3-31-87, Cl. 338-320.000.
Takayanagi, Katsumi, to Alps Electric Co., Ltd. Resistor network. 4,658,234, 4-14-87, Cl. 338-260.000.
Takayanagi, Shinji, to Honda Giken Kogyo Kabushiki Kaisha. Caliper body supporting structure for disk brakes in vehicles having two rear wheels. 4,667,761, 5-26-87, Cl. 180-217.000.
Takayanagi, Shinji, to Honda Giken Kogyo Kabushiki Kaisha. Drive chain adjustment mechanism for vehicles having two rear wheels. 4,714,453, 12-22-87, Cl. 474-112.000.
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Takayanagi, Takashi; Asao, Yasuzi; Fuchizawa, Tetsuro; Jitsumatsu, Tetusji; Murase, Kiyoshi; and Kato, Hiroyuki, to Fuji Photo Film Co., Ltd. Support of photographic paper. 4,654,261, 3-31-87, Cl. 428-336.000.
Takayanagi, Takeshi, to Agency of Industrial Science and Technology, and Ministry of International Trade and Industry. Method for production of investment shell mold for grain-oriented casting of super alloy. 4,664,172, 5-12-87, Cl. 164-34.000.
Takayanagi, Yoshiaki, to Canon Kabushiki Kaisha. Load control unit in an image forming apparatus. 4,645,982, 2-24-87, Cl. 315-307.000.
Takayanagi, Yoshiaki; Ishida, Masato; and Miura, Makoto, to Canon Kabushiki Kaisha. Image forming apparatus with automatic regulation in response to image density. 4,684,239, 8-4-87, Cl. 355-14.00R.
Takayasu, Hidekazu, to Sanshin. Fuel supply device of a two-stroke engine for an outboard motor. 4,683,846, 8-4-87, Cl. 123-73.00A.
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Takeda, Makoto; Yamamoto, Kunihiko; and Take, Hiroshi, 4,651,149, Cl. 340-805.000.
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Take, Takao; Kaneko, Katsuaki; Kusunoki, Kokyo; and Ichiba, Toshinobu, to Onoda Cement Company, Ltd.; and Asahi Asbestos Co. Ltd. Process for producing non-combustible gypsum board and non-combustible laminated gypsum board. 4,645,548, 2-24-87, Cl. 156-39.000.
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Takebayashi, Hiroaki; Harumi, Fujio; Nakamura, Kiyoshi; and Inoue, Koichi, to Koyo Seiko Company Limited; and Kabushiki Kaisha Toshiba. Rotating member supporting apparatus. 4,634,300, 1-6-87, Cl. 384-548.000.

Takebayashi, Koji, to Matsushita Electronics Corporation. Method for making field oxide region with self-aligned channel stop implantation. 4,682,408, 7-28-87, Cl. 29-576.0W.
Takebayashi, Takamitsu. *See*—
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Nakai, Ryusuke; Takebe, Toshihiko; and Yamazaki, Hajime, 4,636,280, Cl. 156-603.000.
Takebe, Yoshiyuki. *See*—
Hakoyama, Soichi; Mori, Shigetatu; Takebe, Yoshiyuki; and Imaoka, Kanya, 4,638,624, Cl. 57-208.000.
Takechi, Moriaki. *See*—
Saitou, Yosio; Kataoka, Takeshi; Takechi, Moriaki; and Matsumoto, Takahiro, 4,707,676, Cl. 335-216.000.
Takechi, Tamaki. *See*—
Okajima, Yasuhiro; Tsugita, Yasuhiro; Takechi, Tamaki; and Okada, Syuji, 4,681,623, Cl. 75-0.50B.
Takechi, Toshihide. *See*—
Sakurai, Masao; Hamada, Yousuke; Ninomiya, Morimasa; Takechi, Toshihide; Nakagawa, Kunihiro; and Fujii, Takashi, 4,633,735, Cl. 74-675.000.
Takeda Chemical Industries. *See*—
Yasushi, Mikura; Kensuke, Asada; and Hajime, Toguchi, 4,645,830, Cl. 530-351.000.
Takeda Chemical Industries, Inc.. *See*—
Horii, Satoshi; Kameda, Yukihiko; and Fukase, Hiroshi, 4,701,559, Cl. 564-363.000.
Inoue, Keizo; Nomura, Hiroaki; and Okutani, Tetsuya, 4,675,430, Cl. 558-172.000.
Takeda Chemical Industries, Ltd.. *See*—
Doura, Fumihiro; Asada, Kazuo; and Inoue, Kouichi, 4,666,981, Cl. 525-100.000.
Goto, Giichi; and Saji, Yoshiaki, 4,695,572, Cl. 514-278.000.
Harada, Setsuo; Nozaki, Yukimasa; and Ono, Hideo, 4,667,027, Cl. 549-221.000.
Hirai, Shin-ichiro; Okada, Hiroaki; and Yashiki, Takatsuka, 4,659,696, Cl. 514-15.000.
Kawada, Mitsuru; Matsumoto, Kiyoharu; and Tsurushima, Masaaki, 4,689,404, Cl. 536-23.000.
Kishimoto, Shoji; Matsuo, Taisuke; and Ochiai, Michihiko, 4,665,067, Cl. 514-210.000.
Kitamori, Nobuyuki; Maeno, Masaya; and Izuhara, Seiji, 4,702,919, Cl. 424-480.000.
Kitano, Kazuaki; and Fujimoto, Shigeru, 4,656,131, Cl. 435-68.000.
Kung, Hsiang-Fu; Sugino, Hiromu; and Honda, Susumu, 4,681,930, Cl. 530-351.000.
Masakazu, Kikuchi; and Kazuo, Nakahama, 4,705,750, Cl. 435-68.000.
Matsumura, Koichi, 4,659,808, Cl. 536-18.500.
Matsumura, Koichi, 4,659,809, Cl. 536-18.500.
Matsuo, Taisuke, deceased; Ochiai, Michihiko; and Kishimoto, Shoji, 4,673,739, Cl. 540-355.000.
Matsuo, Taisuke, deceased; Ochiai, Michihiko; and Kishimoto, Shoji, 4,675,397, Cl. 540-355.000.
Meguro, Kanji; and Nishikawa, Kohei, 4,640,916, Cl. 514-222.000.
Meguro, Kanji; and Fujita, Takeshi, 4,687,777, Cl. 514-342.000.
Mitsudera, Hiroyuki; Konishi, Kazuo; and Sato, Yasuo, 4,640,929, Cl. 514-436.000.
Miyagawa, Kenichiro; Doi, Muneharu; and Akiyama, Shun-ichi, 4,701,413, Cl. 435-88.000.
Miyake, Akio; Kondo, Masahiro; and Fujino, Masahiko, 4,665,065, Cl. 574-202.000.
Moritaka, Shintaro, deceased; Watanabe, Yasuhiko; and Nishimura, Motoyuki, 4,687,669, Cl. 426-72.000.
Naito, Kenzo; Kato, Masayasu; and Tsukamura, Kazuo, 4,642,365, Cl. 558-83.000.
Naito, Kenzo; Tsukamura, Kazuo; and Aoyagi, Sakae, 4,692,519, Cl. 540-227.000.
Nakabayashi, Masamitsu; Kawai, Hideo; Tatsukawa, Suminori; and Kaji, Masayuki, 4,686,133, Cl. 428-209.000.
Nara, Kiyoshi; and Honda, Susumu, 4,686,284, Cl. 530-351.000.
Nasu, Kohji; and Doura, Fumihiro, 4,656,211, Cl. 524-198.000.
Nishimura, Susumu; Nomura, Hiroaki; and Akimoto, Hiroshi, 4,650,868, Cl. 544-280.000.
Nishino, Kenichi; Kobayashi, Atsuo; Higashi, Sachio; Yamamoto, Shinichiro; and Yasuda, Kiyoshi, 4,640,950, Cl. 524-265.000.
Nohara, Akira; and Maki, Yoshitaka, 4,672,073, Cl. 514-381.000.
Nohara, Akira; and Maki, Yoshitaka, 4,689,333, Cl. 514-338.000.
Nohara, Akira; and Maki, Yoshitaka, 4,714,774, Cl. 560-053.000.
Nohara, Akira, 4,716,167, Cl. 514-291.000.
Nojima, Shoshichi; Nomura, Hiroaki; and Tsushima, Susumu, 4,649,203, Cl. 548-112.000.
Nojima, Shoshichi; Nomura, Hiroaki; and Okutani, Tetsuya, 4,710,579, Cl. 558-169.000.
Ochiai, Michihiko; Okada, Taiti; Aki, Osami; Morimoto, Akira; Kawakita, Kenji; and Matsushita, Yoshihiro, 4,668,783, Cl. 540-222.000.
Ochiai, Michihiko; Morimoto, Akira; and Matsushita, Yoshihiro, 4,680,390, Cl. 540-228.000.
Ochiai, Michihiko; Kishimoto, Shoji; and Matsuo, Taisuke, deceased, 4,684,724, Cl. 540-355.000.
Okada, Hiroaki; Ogawa, Yasuaki; and Yashiki, Takatsuka, 4,652,441, Cl. 424-19.000.
Okada, Hiroaki; Ogawa, Yasuaki; and Yashiki, Takatsuka, 4,711,782, Cl. 424-455.000.
Ono, Hideo; Nozaki, Yukimasa; and Harada, Setsuo, 4,656,288, Cl. 548-244.000.
Oshima, Junji; Yamada, Minoru; and Kajita, Yasuyuki, 4,684,695, Cl. 525-36.000.
Satani, Eiji; Okamoto, Nagaoki; Fritz, James G.; and Kimura, Hiroshi, 4,659,581, Cl. 426-537.000.
Shirai, Norio; Kishimoto, Jotaro; Noguchi, Yukihide; Ishibe, Hideomi; and Nagai, Kiyoshi, 4,662,915, Cl. 55-511.000.
Sugihara, Hirosada; Nishikawa, Kohei; and Ito, Katsumi, 4,638,000, Cl. 514-211.000.
Sugihara, Hirosada; and Hirata, Minoru, 4,672,064, Cl. 514-253.000.
Tairaka, Yoshihiko, 4,649,163, Cl. 521-107.000.
Takanohashi, Kunio; Yoshida, Tsuneaki; and Fujii, Shoichiro, 4,695,639, Cl. 548-165.000.
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,677,191, Cl. 528-361.000.
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,683,288, Cl. 528-361.000.
Taniguchi, Shin ichi, 4,673,077, Cl. 198-393.000.
Tsuda, Masao; Sawa, Yoichi; and Yamazaki, Iwao, 4,644,012, Cl. 514-456.000.
Tsukamoto, Kyozo; Ichimori, Yuzo; and Wakimasu, Mitsuhiro, 4,681,848, Cl. 435-240.000.
Uda, Yoshiaki; Hirai, Shin-ichiro; and Yashiki, Takatsuka, 4,670,419, Cl. 514-16.000.
Ueda, Haruhiko; Toyoda, Hidekazu; and Fukuda, Minoru, 4,657,901, Cl. 514-171.000.
Uekado, Kazutaka; and Okada, Kazuo, 4,668,555, Cl. 428-69.000.
Wada, Yasutaro; and Ohtsuki, Takashi, 4,636,849, Cl. 358-106.000.
Yasaburgo, Akagi; Yasumoto, Miura; and Tetsuo, Hoshino, 4,714,611, Cl. 424-85.000.
Yoshida, Masaru; Asano, Masaharu; Kaetsu, Isao; Nakai, Katsuyuki; Yamanaka, Hidetoshi; Shida, Keizo; and Shiraishi, Akira, 4,652,443, Cl. 424-487.000.
Yoshioka, Koichi; Tamura, Norikazu; and Natsugari, Hideaki, 4,698,339, Cl. 514-210.000.
Takeda Chemical Industry, Ltd.. *See*—
Kigasawa, Kazuo; Ohtani, Hideaki; Tanaka, Makoto; and Hayashida, Shigeru, 4,695,465, Cl. 424-44900.
Takeda Color Frame Co., Ltd.. *See*—
Takeda, Tomihiro, 4,666,265, Cl. 351-41.000.
Takeda, Eiji. *See*—
Sunami, Hideo; Masuda, Hiroo; Kamigaki, Yoshiaki; Shimohigashi, Katsuhiro; and Takeda, Eiji, 4,656,492, Cl. 357-23.300.
Takeda, Fuchio; Matsushiro, Hiroyuki; Kobayashi, Kazuo; and Kaneko, Toshio, to Ricoh Company, Ltd. Developing apparatus. 4,710,015, 12-1-87, Cl. 355-3.0DD.
Takeda, Fumio. *See*—
Sasaki, Naoya; Kawauchi, Masataka; Fukudome, Yoshio; Takeda, Fumio; Suzuki, Yoichi; Mirubayashi, Toshio; and Utsumi, Itsunori, 4,653,742, Cl. 271-114.000.
Seino, Kiyoharu; Takagi, Tadashi; and Takeda, Fumio, 4,639,694, Cl. 333-128.000.
Takeda, Fumiteru; Hirano, Katsuhiko; and Inagaki, Yoshiharu, to Nippon Gakki Seizo Kabushiki Kaisha. Fractional range selectable musical tone generating apparatus. 4,711,148, 12-8-87, Cl. 84-1.010.
Takeda, Hideo. *See*—
Nakamura, Masao; Takeda, Hideo; Yukawa, Toshihide; and Kawasaki, Haruo, 4,670,568, Cl. 549-253.000.
Shibata, Norio; Takeda, Hideo; Sato, Tsunehiko; and Tanaka, Yasunori, 4,681,062, Cl. 118-410.000.
Takeda, Hideto, to Nippondenso Co., Ltd. Electromagnetic fuel injector with magnetic stop member. 4,637,554, 1-20-87, Cl. 239-585.000.
Takeda, Hiroaki; and Ishida, Masato, to Canon Kabushiki Kaisha. Developer detecting device. 4,647,185, 3-3-87, Cl. 355-14.00D.
Takeda, Hirofumi. *See*—
Suzuki, Hirokazu; Akiyama, Takehiro; Morita, Teruo; Takeda, Hirofumi; and Masunaga, Hikotaro, 4,645,958, Cl. 307-597.000.
Takeda, Hiromitsu; Nakahashi, Masako; Shirokane, Makoto; Tsuge, Akihiko; and Suzuki, Takao, to Kabushiki Kaisha Toshiba. Nitride ceramic-metal complex material and method of producing the same. 4,685,607, 8-11-87, Cl. 228-193.000.
Takeda, Hiromitsu. *See*—
Komatsu, Shuichi; Shimotori, Kazumi; Takeda, Hiromitsu; and Nakahashi, Masako, 4,681,251, Cl. 228-208.000.
Takeda, Hiroshi; Oshima, Noritsugu; Kubo, Tateo; and Sakaguchi, Kenichi, to Toyo Seikan Kaisha, Ltd. Compression molding apparatus. 4,640,673, 2-3-87, Cl. 425-297.000.
Takeda, Hisami. *See*—
Tomioka, Hiroki; Yano, Toshihiko; Takeda, Hisami; and Hirata, Naonori, 4,668,693, Cl. 514-399.000.
Takeda, Hisanobu; and Aso, Yasuhiro, to Aisin Seiki Kabushiki Kaisha. Washing device for parts of human body. 4,704,748, 11-10-87, Cl. 4-420.400.
Takeda, Hisanobu. *See*—
Oguma, Tomio; Takeda, Hisanobu; and Asou, Yasuhiro, 4,700,082, Cl. 307-116.000.
Takeda, Hitoshi, to Nissan Motor Co., Ltd. Method and apparatus for alleviating transmission shift shocks. 4,691,285, 9-1-87, Cl. 364-424.100.
Takeda, Hitoshi; and Takase, Sadao, to Nissan Motor Co., Ltd. Lock-up control for shockless gear shifting. 4,715,145, 12-29-87, Cl. 74-731.000.

Takeda, Iichiro. Device for relaxing the skin of the head. 4,646,728, 3-3-87, Cl. 128-97.000.

Takeda, Isamu: *See*—
Matsuo, Junichi; Sakano, Kozaburo; and Takeda, Isamu, 4,700,871, Cl. 222-107.000.

Takeda, Katsuhiko; and Sugiura, Masamichi, to Minolta Camera Kabushiki Kaisha. Optical member drive system for copying machine. 4,641,957, 2-10-87, Cl. 355-58.000.

Takeda, Kazuhiro: *See*—
Mashimo, Satoshi; Fujita, Kunihiro; Tanaka, Masayuki; Yamaguchi, Yoshio; and Takeda, Kazuhiro, 4,715,176, Cl. 57-251.000.

Takeda, Kazuma; and Igarashi, Tsutomu, to Alpine Electronics Inc. Device for protecting audio equipment in vehicle against theft. 4,683,462, 7-28-87, Cl. 340-571.000.

Takeda, Keigo, to Shiojiri Kogyo Kabushiki Kaisha. Self-charging electronic timepiece. 4,653,931, 3-31-87, Cl. 368-205.000.

Takeda, Keiji, to Fuji Photo Film Co., Ltd. Image recording process using both silver halide and vinyl monomers. 4,649,098, 3-10-87, Cl. 430-270.000.

Takeda, Kenji; Inagaki, Mitsuo; Sasaya, Hideaki; and Matsui, Kazuma, to Nippon Soken, Inc.; and Nippondenso Co., Ltd. Antiskid hydraulic pressure modulator for vehicle hydraulic braking system. 4,690,465, 9-1-87, Cl. 303-119.000.

Takeda, Kenji: *See*—
Imoto, Yuzo; Takei, Toshihiro; Hattori, Yoshiyuki; Uno, Haruhiko; Inagaki, Mitsuo; and Takeda, Kenji, 4,705,323, Cl. 303-116.000.
Ohno, Akio; Tanaka, Kiyoharu; Takeda, Kenji; Yoshinaga, Kenji; Oguri, Shimichi; and Takada, Yusaku, 4,646,679, Cl. 118-691.000.
Sadaki, Hiroshi; Imaizumi, Hiroyuki; Takeda, Kenji; Inaba, Takihiro; Takeno, Ryuko; Morita, Seishi; Kajita, Tetsuya; and Saikawa, Isamu, 4,667,040, Cl. 548-195.000.

Takeda, Kunimobu; and Shigenai, Osamu, to Alps Electric Co., Ltd. Disk recording and reproducing device having a disk loading and slide ejector mechanism. 4,661,869, 4-28-87, Cl. 360-97.000.

Takeda, Kyoji; and Kitai, Akira, to Tanaka Seiki Co., Ltd. Tape winding machine. 4,690,346, 9-1-87, Cl. 242-56.00R.

Takeda, Makoto; Nonomura, Keisaku; and Funada, Fumiaki, to Sharp Kabushiki Kaisha. Method of driving liquid crystal display device. 4,649,383, 3-10-87, Cl. 340-805.000.

Takeda, Makoto; Yamamoto, Kunihiko; Matsuhashi, Nobuaki; Kimura, Naofumi; Hamada, Hiroshi; and Take, Hiroshi, to Sharp Kabushiki Kaisha. Liquid crystal display driving with switching transistors. 4,651,148, 3-17-87, Cl. 340-805.000.

Takeda, Makoto; Yamamoto, Kunihiko; and Take, Hiroshi, to Sharp Kabushiki Kaisha. Liquid crystal display drive with reduced power consumption. 4,651,149, 3-17-87, Cl. 340-805.000.

Takeda, Makoto; Yamamoto, Kunihiko; Matsubayashi, Nobuaki; and Take, Hiroshi, to Sharp Kabushiki Kaisha. Liquid crystal matrix display panel driver circuit. 4,694,349, 9-15-87, Cl. 358-241.000.

Takeda, Makoto; Iwane, Hiroshi; Yoshida, Akira; and Mori, Teruo, to Mitsubishi Yuka Fine Chemicals Co., Ltd. 4,8-dimethylbicyclo(3.3.1-)nonane derivatives. 4,700,008, 10-13-87, Cl. 568-374.000.

Takeda, Makoto; Nonomura, Keisaku; and Yamamoto, Kunihiko, to Sharp Kabushiki Kaisha. Liquid crystal display with switching transistor for each pixel. 4,710,768, 12-1-87, Cl. 340-805.000.

Takeda, Mamoru: *See*—
Kikuchi, Isako; Ota, Isao; Takeda, Mamoru; and Kiyokawa, Seiji, 4,704,002, Cl. 350-334.000.

Takeda, Masaaki, to Matsushita Seiko Co., Ltd. Ultrasonic liquid atomizer with an improved soft start circuit. 4,641,053, 2-3-87, Cl. 310-317.000.

Takeda, Masami, to Canon Kabushiki Kaisha. Method of molding a member having undercut portions. 4,695,421, 9-22-87, Cl. 264-318.000.

Takeda, Masashi: *See*—
Shoji, Norio; and Takeda, Masashi, 4,714,841, Cl. 307-455.000.

Takeda, Masatoshi; and Sashida, Nobuo, to Mitsubishi Denki Kabushiki Kaisha. Static var compensators. 4,686,447, 8-11-87, Cl. 323-210.000.

Takeda, Masatoshi, to Mitsubishi Denki Kabushiki Kaisha. Switchgear. 4,695,741, 9-22-87, Cl. 307-643.000.

Takeda Medical Company Limited: *See*—
Kaneko, Yoshihiro; Tochikubo, Osamu; and Yokoi, Hiroyuki, 4,660,567, Cl. 128-682.000.

Takeda, Mikio; Oh-ishi, Tokuro; Nakajima, Hiromichi; and Nagao, Taku, to Tanabe Seiyaku Co., Ltd. Novel 9-chloro-1,5-benzothiazepine derivatives and their pharmaceutical use. 4,665,068, 5-12-87, Cl. 514-211.000.

Takeda, Mitsuru, and Kuramochi, Wataru, to Dai Nippon Insatsu Kabushiki Kaisha. Optical recording card with optical recording layers. 4,673,626, 6-16-87, Cl. 430-14.000.

Takeda, Mitsuru: *See*—
Ohtsuki, Tomonari; Ishii, Masaru; and Takeda, Mitsuru, 4,699,458, Cl. 350-96.210.

Takeda, Mituo; Odamoto, Katunobu; and Uraki, Keiji, to El Planning System Ltd. Portable type audio-visual sensory apparatus. 4,658,298, 4-14-87, Cl. 358-254.000.

Takeda, Mituo, Odamoto, Katunobu, and Uraki, Keiji, to El Planning System Ltd. Portable case for a small size audio-visual sensory apparatus. 4,658,956, 4-21-87, Cl. 206-320.000.

Takeda, Nobuhiko: *See*—
Hattori, Takemi; and Takeda, Nobuhiko, 4,714,291, Cl. 297-284.000.
Hattori, Takemi; and Takeda, Nobuhiko, 4,715,653, Cl. 297-284.000.

Takeda, Nobuhiro; and Hattori, Masuchi, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Power supply circuit for vehicle. 4,649,296, 3-10-87, Cl. 307-10.00R.

Takeda Riken Co., Ltd.: *See*—
Sato, Hiroshi; and Kobayashi, Yoshihito, 4,715,501, Cl. 209-573.000.
Suzuki, Kempei; Iwanaga, Yushi; Sato, Hiroshi; Sato, Kohei; Igarashi, Noriyuki; and Koya, Shinichi, 4,691,831, Cl. 209-573.000.

Takeda Riken Kogyo Kabushikikaisha: *See*—
Kasahara, Toshiharu; Ogami, Takayuki; and Kitayoshi, Hitoshi, 4,713,788, Cl. 364-718.000.
Nakajima, Takayuki; Aoki, Tetsuo; Kobayashi, Katsumi; and Akiyama, Noboru, 4,696,004, Cl. 371-25.000.
Nakajima, Takayuki; Aoki, Tetsuo; Kobayashi, Katsumi; and Akiyama, Noboru, 4,701,918, Cl. 371-20.000.
Niki, Shoji; Takahashi, Toshiro; and Hirakoso, Yohei, 4,680,540, Cl. 324-78.00R.
Noguchi, Kazuo, 4,654,848, Cl. 371-20.000.
Okino, Noboru, 4,670,879, Cl. 371-27.000.

Takeda, Rikio: *See*—
Yamazaki, Shinsuke; Takeda, Rikio; and Uda, Iwao, 4,710,349, Cl. 420-495.000.

Takeda, Ryo: *See*—
Yanazawa, Tadaaki; Tanaka, Teruaki; Noda, Akio; Takeda, Ryo; and Inoue, Masataka, 4,685,320, Cl. 72-250.000.

Takeda, Ryuzaburo: *See*—
Yamamoto, Etsuji; Kohno, Hideki; and Takeda, Ryuzaburo, 4,701,709, Cl. 324-312.000.

Takeda, Seijiro; Ichikawa, Norio; and Tsuruoka, Kazuhiro, to Hitachi, Ltd. Pressure sensor and a method of arranging a pressure sensor. 4,670,730, 6-2-87, Cl. 338-4.000.

Takeda, Seijiro: *See*—
Ichikawa, Norio; Takeda, Seijiro; and Tsuruoka, Kazuhiro, 4,644,797, Cl. 73-706.000.

Takeda, Setsuo: *See*—
Fujii, Setsuro; Unemi, Norio; and Takeda, Setsuo, 4,650,801, Cl. 514-274.000.
Fujii, Setsuro; Unemi, Norio; and Takeda, Setsuo, 4,652,570, Cl. 514-274.000.

Takeda, Shigeki; and Maekawa, Sachio, to Hashimoto Denki Co., Ltd. Apparatus for cutting veneer pieces into equal sections. 4,682,639, 7-28-87, Cl. 144-2.00R.

Takeda, Shinji; Asano, Teruyoshi; and Bando, Yoshiaki, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Ball valve. 4,667,926, 5-26-87, Cl. 251-170.000.

Takeda, Shoji: *See*—
Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,647,600, Cl. 523-116.000.
Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,652,593, Cl. 523-116.000.
Kawahara, Haruyuki; and Takeda, Shoji, 4,689,080, Cl. 106-35.000.

Takeda, Shunichi: *See*—
Matsui, Takeshi; Takeda, Shunichi; and Makino, Tomoatsu, 4,638,785, Cl. 123-644.000.

Takeda, Takao; Yamazaki, Hitoshi; Taniguchi, Yoshiteru; Tanaka, Norihiko; Ito, Hiroshi; Uchida, Minoru; and Imai, Jun, to Mitsubishi Denki Kabushiki Kaisha. Low pressure mercury vapor discharge lamp and preparation thereof. 4,703,227, 10-27-87, Cl. 313-634.000.

Takeda, Tamio; Gokyu, Toshio; Mizutani, Yuji; and Nakashima, Jun, to Kabushiki Kaisha Toshiba. Rotor with permanent magnets having thermal expansion gaps. 4,678,954, 7-7-87, Cl. 310-156.000.

Takeda, Tomihiro, to Takeda Color Frame Co., Ltd.; and Nippon Kogaku K. K. Spectacle rim part made of fiber-reinforced resin. 4,666,265, 5-19-87, Cl. 351-41.000.

Takeda, Tomoyuki; and Ito, Yoji, to Murata Manufacturing Co., Ltd. Dielectric material coaxial resonator filter directly mountable on a circuit board. 4,673,902, 6-16-87, Cl. 333-202.000.

Takeda, Toshio: *See*—
Kaga, Matasaburo; and Takeda, Toshio, 4,666,384, Cl. 418-150.000.
Takauchi, Mitsuyoshi; and Takeda, Toshio, 4,658,744, Cl. 112-466.000.

Takeda, Toyohiko: *See*—
Sakamoto, Teruo; Kawai, Sadao; Noda, Kinzaburo; Takeda, Toyohiko; and Kato, Hiroshi, 4,713,247, Cl. 424-461.000.

Takeda, Yoshiaki; Kinoshita, Toshiharu; and Kai, Osamu, to Tamura Electric Works, Ltd. Alarm information transmission system for coin telephone. 4,644,109, 2-17-87, Cl. 379-27.000.

Takeda, Yoshihumi: *See*—
Takamizawa, Minoru; Kobayashi, Taishi; Ishihara, Toshinobu; Takeda, Yoshihumi; and Hayashida, Akira, 4,657,991, Cl. 525-477.000.

Takeda, Yoshinobu: *See*—
Yamakawa, Akira; Takeda, Yoshinobu; and Kamijo, Eiji, 4,660,114, Cl. 360-122.000.

Takeda, Yoshio, to Sharp Kabushiki Kaisha. Heat sensitive type adhesive connector. 4,680,226, 7-14-87, Cl. 428-327.000.

Takeda, Yoshiro: *See*—
Owa, Yutaka; Tanaka, Yoshiro; Saito, Takeshi; and Takeda, Yoshiro, 4,637,759, Cl. 405-270.000.

Takeda, Yoshiyuki; Kawashima, Osamu; Furukawa, Shiro; and Ogino, Yasukazu, to Mitsubishi Chemical Industries Limited. Process for the epimerization of aminated phthalideisoquinolines. 4,704,458, 11-3-87, Cl. 546-90.000.

Takeda, Yuji; Anzai, Katsushi; Harada, Osamu; and Suematsu, Toshio, to Toyota Jidosha Kabushiki Kaisha. Method for controlling fuel injection amount of internal combustion engine and apparatus thereof. 4,655,186, 4-7-87, Cl. 123-480.000.

Takeda, Yuji; Suematsu, Toshio; Harada, Osamu; and Anzai, Katsushi, to Toyota Jidosha Kabushiki Kaisha. Air-fuel ratio controller for internal combustion engine. 4,664,086, 5-12-87, Cl. 123-489.000.

Takeda, Yuji; Anzai, Katsushi; Harada, Osamu; and Suematsu, Toshio, to Toyota Jidosha Kabushiki Kaisha. Idling speed control device of an internal combustion engine. 4,688,534, 8-25-87, Cl. 123-339.000.

Takeda, Yuji: *See*—
Anzai, Katsushi; Harada, Osamu; Suematsu, Toshio; and Takeda, Yuji, 4,712,522, Cl. 123-179.00L.
Harada, Osamu; Suematsu, Toshio; Takeda, Yuji; and Anzai, Katsushi, 4,640,251, Cl. 123-425.000.
Harada, Osamu; Takeda, Yuji; Suematsu, Toshio; Anzai, Katsushi; and Funato, Kazuhiko, 4,708,113, Cl. 123-425.000.

Takeda, Yukio; Iijima, Shiro; Higuchi, Shinsuke; Ohura, Masaki; and Nagaike, Sadanori, to Hitachi, Ltd. Thin film magnetic head slider. 4,639,803, 1-27-87, Cl. 360-103.000.

Takeda, Yukio: *See*—
Fukuda, Eisuke; Takeda, Yukio; Daido, Yoshimasa; Nakamura, Hiroshi; Sasaki, Susumu; and Takenaka, Sadao, 4,665,532, Cl. 375-19.000.

Takedo Chemical Industries, Ltd.: *See*—
Nomura, Hiroaki; Nishikawa, Kohei; and Tsushima, Susumu, 4,650,791, Cl. 514-82.000.

Takefuta, Hideyasu, to Diesel Kiki Co., Ltd. Automatic transmission system for vehicles. 4,645,045, 2-24-87, Cl. 192-3.620.

Takefuta, Hideyasu; and Seshima, Tatsuya, to Diesel Kiki Co., Ltd. Apparatus for controlling a clutch for vehicles. 4,662,491, 5-5-87, Cl. 192-0.032.

Takefuta, Hideyasu: *See*—
Wakiya, Michio; Takefuta, Hideyasu; and Kono, Hiromi, 4,662,494, Cl. 192-0.052.

Takegahara, Takashi: *See*—
Kishi, Hajimu; Seki, Masaki; Takegahara, Takashi; and Onishi, Yasushi, 4,706,201, Cl. 364-474.000.
Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,635,185, Cl. 364-191.000.
Kishi, Hajimu; Seki, Masaki; and Takegahara, Takashi, 4,642,754, Cl. 364-191.000.
Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,644,460, Cl. 364-171.000.
Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,654,651, Cl. 340-731.000.
Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,663,705, Cl. 364-191.000.
Kishi, Hajimu; Seki, Masaki; and Takegahara, Takashi, 4,680,719, Cl. 364-474.000.
Kishi, Hajimu; Seki, Masaki; Takegahara, Takashi; and Onishi, Yasushi, 4,703,415, Cl. 364-170.000.
Kishi, Hajimu; Seki, Masaki; and Takegahara, Takashi, 4,706,200, Cl. 364-474.000.

Takegawa, Hiroaki: *See*—
Yamamoto, Toshiaki; Kako, Hiroyoshi; Shibata, Takuo; Izuo, Takashi; Kamimae, Hajime; and Takegawa, Hiroaki, 4,696,379, Cl. 188-299.000.

Takegawa, Katsumi: *See*—
Suzuki, Yasuo; Kawamoto, Tetsuo; Motohashi, Ryo; Nagai, Masato; Takegawa, Katsumi; and Taniguchi, Naohiro, 4,704,567, Cl. 318-254.000.

Takegawa, Yujiro, to Tsudakoma Corp. Method of and apparatus for removing and replacing a broken weft yarn. 4,658,866, 4-21-87, Cl. 139-450.000.

Takeguchi, Shunsuke: *See*—
Urano, Shigeru; and Takeguchi, Shunsuke, 4,687,185, Cl. 266-274.000.

Takegushi, Shunsuke: *See*—
Umeha, Genkichi; Urano, Shigeru; Hiraka wa, Osamu; and Takegushi, Shunsuke, 4,644,912, Cl. 123-90.340.
Umeha, Genkichi; Urano, Shigeru; Hirakawa, Osamu; and Takegushi, Shunsuke, 4,649,011, Cl. 264-267.000.

Takehara, Hideaki: *See*—
Shibata, Yasuo; Takehara, Hideaki; and Miyajima, Shin, 4,704,326, Cl. 428-336.000.

Takehara, Katsuomi, to Kabushiki Kaisha Takehara Kikai Kenkyusho. Cutting device for a belt-like object. 4,688,455, 8-25-87, Cl. 83-175.000.

Takehara, Masahiro: *See*—
Meguro, Kenjiro; Sagawa, Koichiro; Yokota, Hirofumi; and Takehara, Masahiro, 4,640,943, Cl. 523-200.000.

Takehara, Shigeru, to Motorola, Inc. Magnetic write circuit. 4,647,988, 3-3-87, Cl. 360-46.000.

Takehara, Shin, to Nissan Motor Co., Ltd. Power unit mount assembly. 4,637,584, 1-20-87, Cl. 248-559.000.

Takehara, Shin, to Nissan Motor Co., Ltd. Vibration damping system for power unit. 4,709,779, 12-1-87, Cl. 180-300.000.

Takehara, Shin: *See*—
Abe, Eiichi; and Takehara, Shin, 4,666,016, Cl. 180-291.000.
Akatsu, Yousuke; Yamaguchi, Hirotsugu; Fukushima, Naoto; Hano, Sunao; Sugino, Masaru; Takehara, Shin; and Matsui, Shinichi, 4,693,491, Cl. 280-688.000.

Takehisa, Kiwamu: *See*—
Uchiyama, Taro; Takehisa, Kiwamu; and Ishizaki, Isao, 4,643,889, Cl. 423-579.000.

Takei, Akira; Hika, Yoshihiko; and Mida, Takashi, to Fujitsu Limited. Nonvolatile semiconductor memory device. 4,672,409, 6-9-87, Cl. 357-33.500.

Takei, Akira: *See*—
Asano, Hiroyuki; Katayose, Shinji; Inoue, Hideaki; Takei, Akira; and Tamura, Minoru, 4,649,880, Cl. 123-399.000.
Inoue, Hideaki; Katayose, Shinji; Takei, Akira; and Oka, Takashi, 4,660,520, Cl. 123-399.000.
Mida, Takashi; Takei, Akira; and Tashiro, Kiyoshi, 4,716,466, Cl. 358-213.260.

Takei, Atsuo: *See*—
Shimizu, Goro; Hayashi, Yoshimi; Hasegawa, Hajime; Koga, Tan; Takei, Atsuo; Okuyama, Tohru; and Tongoe, Hideo, 4,666,949, Cl. 521-114.000.

Takei, Haruo: *See*—
Toya, Ichizo; Mihara, Yuji; and Takei, Haruo, 4,634,653, Cl. 430-217.000.

Takei, Hidetoshi; and Minami, Teruo, to Toyo Denki Seizo Kabushiki Kaisha and Komatsu Ltd. Collector device for trolley-assisted vehicles. 4,694,125, 9-15-87, Cl. 191-87.000.

Takei, Hirofumi: *See*—
Omura, Hideo; Kaminaga, Toshiyuki; and Takei, Hirofumi, 4,645,031, Cl. 181-232.000.

Takei, Hiroshi: *See*—
Mizushima, Yutaka; Fujii, Mitsuharu; and Takei, Hiroshi, 4,647,586, Cl. 514-532.000.

Takei, Katsumori: *See*—
Aoki, Kenji; Takei, Katsumori; Nakamura, Haruo; and Matsubara, Yoshikazu, 4,671,616, Cl. 350-331.000.
Hayashi, Seiichi; Takei, Katsumori; Usui, Takahiro; Yamaguchi, Yoshitaka; and Taniguchi, Makoto, 4,636,258, Cl. 106-31.000.
Hayashi, Seiichi; Takei, Katsumori; and Yamaguchi, Yoshitaka, 4,684,563, Cl. 428-207.000.

Takei, Kazukata: *See*—
Miki, Kazuo; Fukui, Katsuhiko; Hayashi, Yasutaka; Ishiguri, Michio; Sumi, Kazumasa; and Takei, Kazukata, 4,669,745, Cl. 280-91.000.

Takei, Masahiro; and Kozuki, Susumu, to Canon Kabushiki Kaisha. Color image pickup apparatus with color filter array comprising filter elements of three different colors arranged to provide reduced folding distortion. 4,646,139, 2-24-87, Cl. 358-44.000.

Takei, Masahiro; Kozuki, Susumu; Masui, Toshiyuki; Hirasawa, Masahide; and Kashida, Motokazu, to Canon Kabushiki Kaisha. Data storing device having position determining means. 4,696,008, 9-22-87, Cl. 371-47.000.

Takei, Masahiro: *See*—
Kozuki, Susumu; Takayama, Nobutoshi; Edakubo, Hiroo; Ushiro, Tatsuzo; Takei, Masahiro; and Nagasawa, Kenichi, 4,665,449, Cl. 360-77.000.
Masui, Toshiyuki; Hirasawa, Masahide; Kozuki, Susumu; Kashida, Motokazu; Takei, Masahiro; and Nagasawa, Kenichi, 4,675,867, Cl. 371-31.000.
Yasumura, Hiroto; Kozuki, Susumu; and Takei, Masahiro, 4,692,914, Cl. 369-49.000.

Takei, Masamitsu; and Shoji, Shigeo, to Kawasaki Steel Corporation and Kawatetsu Wire Products. Unbonded PC steel strand. 4,635,433, 1-13-87, Cl. 57-223.000.

Takei, Nobuko: *See*—
Kasahara, Yasuo, 4,672,343, Cl. 335-170.000.

Takei, Shinzo; Yokoyama, Junji; and Takagi, Makoto, to Sony Corporation. Method for attaching a stud pin to a cathode ray tube panel. 4,640,700, 2-3-87, Cl. 65-59.220.

Takei, Tetsuya: *See*—
Tada, Hideki; Ito, Michio; Tanaka, Kazuki; Kume, Nobuyuki; Takei, Tetsuya; and Kisu, Hiroki, 4,674,865, Cl. 355-15.000.

Takei, Toshihiro; Hattori, Yoshiyuki; and Nomura, Ken, to Nippondenso Co., Ltd. Valve device. 4,674,540, 6-23-87, Cl. 137-625.650.

Takei, Toshihiro: *See*—
Imoto, Yuzo; Takei, Toshihiro; Hattori, Yoshiyuki; Uno, Haruhiko; Inagaki, Mitsuo; and Takeda, Kenji, 4,705,323, Cl. 303-116.000.
Imoto, Yuzo; Wakata, Hideo; Takei, Toshihiro; and Hattori, Yoshiyuki, 4,714,296, Cl. 303-6.00C.
Ishihara, Nobuaki; Takei, Toshihiro; Hattori, Yoshiyuki; and Okazaki, Koji, 4,669,963, Cl. 418-65.000.
Matsuda, Takeshi; Miyamoto, Masasi; and Takei, Toshihiro, 4,692,092, Cl. 415-143.000.

Takei, Tsutomu: *See*—
Fujimoto, Yuji; Aono, Masayuki; Takei, Tsutomu; Nakano, Teruo; and Nakabayashi, Teiji, 4,688,392, Cl. 62-174.000.

Takei, Yoshiaki; Nomori, Hiroyuki; and Matuura, Katumi, to Konishiroku Photo Industry Co., Ltd. Photoreceptor having polycarbonate layers and process for the preparation thereof. 4,637,971, 1-20-87, Cl. 430-59.000.

Takei, Yuji: *See*—
Ishiki, Naotsugu; and Takei, Yuji, 4,697,420, Cl. 60-517.000.

Takeichi, Hiroaki: *See*—
Takahashi, Atsuhisa; Nara, Takashi; Murayama, Masami; and Takeichi, Hiroaki, 4,661,946, Cl. 370-58.000.

Takeichi, Michifumi: *See*—
Ohmura, Keiji; Kawai, Sueo; Murakami, Yoshimasa; Takeichi, Michifumi; and Okazaki, Masato, 4,645,258, Cl. 296-204.000.

Takeichi, Yasutoshi: *See*—
Yamane, Kunio; Ohmura, Kazutaka; Nakayama, Akira; and Takeichi, Yasutoshi, 4,663,294, Cl. 435-317.000.

Takekawa, Junjiro: *See*—
Nime, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akiraga; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Masaki; Masuda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjiro; Ohtsuki, Etsuo; and Isago, Terashi, 4,703,620, Cl. 60-260.000.

Takekawa, Kouichi; and Bonkohara, Manabu, to NEC Corporation. Capacitor built-in integrated circuit packaged unit and process of fabrication thereof. 4,714,952, 12-22-87, Cl. 357-75.000.

Takekawa, Yujiro; and Matsuda, Fumio, to Tsudakoma Kogyo Kabushiki Kaisha. Multi-nozzle weft insertion device for a fluidic jet shuttleless-loom. 4,691,745, 9-8-87, Cl. 139-435.000.

Takekoshi, Tohru; Clugett, Donald C.; and Cooper, Stephen M., to General Electric Company. Novel copolyimides and polyamic acid precursors therefor. 4,634,760, 1-6-87, Cl. 528-353.000.

Takekoshi, Tohru; and Anderson, Patricia P., to General Electric Company. Secondary amine-terminated oligomers and copolyurethanecarbonates prepared therefrom. 4,695,612, 9-22-87, Cl. 525-433.000.

Takekoshi, Tohru; and Anderson, Patricia P., to General Electric Company. Crystalline polyimides containing cumulative phenylene sulfide units. 4,716,216, 12-29-87, Cl. 528-352.000.

Takekoshi, Yoshitaka; and Ushiyama, Shigeyuki, to Fanuc Ltd. Interlocking yoke and endplates for permanent magnet rotor. 4,639,627, 1-27-87, Cl. 310-156.000.

Takekura, Hiroyuki: *See*—
Kitamura, Masatsugu; Tanaka, Mitsuaki; and Takekura, Hiroyuki, 4,673,916, Cl. 340-347.05H.

Takemae, Mikio: *See*—
Nakano, Yoshiyuki; and Takemae, Mikio, 4,707,095, Cl. 354-173.110.
Nishioka, Sunao; and Takemae, Mikio, 4,707,105, Cl. 354-412.000.

Takemae, Shigeru; Takada, Yasuo; Tokuda, Shuichiro; Furukawa, Noriyuki; and Kodama, Hitoshi, to Mitsubishi Rayon Company, Ltd. Method and apparatus for producing slub yarn. 4,663,927, 5-12-87, Cl. 57-6.000.

Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, to Fujitsu Limited. Semiconductor memory device. 4,636,982, 1-13-87, Cl. 365-149.000.

Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, to Fujitsu Limited. Semiconductor memory device having stacked capacitor-type memory cells. 4,641,166, 2-3-87, Cl. 357-23.600.

Takemae, Yoshihiro, to Fujitsu Limited. Semiconductor memory device. 4,646,118, 2-24-87, Cl. 357-23.600.

Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, to Fujitsu Limited. Semiconductor memory device having stacked capacitor-type memory cells. 4,649,406, 3-10-87, Cl. 357-23.600.

Takemae, Yoshihiro; Nakano, Tomio; and Sato, Kimiaki, to Fujitsu Limited. Semiconductor memory device having divided regular circuits. 4,660,174, 4-21-87, Cl. 365-63.000.

Takemae, Yoshihiro, to Fujitsu Limited. Shift register for refreshing a MIS dynamic memory. 4,679,214, 7-7-87, Cl. 377-80.000.

Takemae, Yoshihiro, to Fujitsu Limited. Semiconductor memory device having redundant memory and parity capabilities. 4,688,219, 8-18-87, Cl. 371-10.000.

Takemae, Yoshihiro, to Fujitsu Limited. FET voltage reference circuit with threshold voltage compensation. 4,692,689, 9-8-87, Cl. 323-313.000.

Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fujii, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased (by Tsuge, Itaru, Sachie Tsuge, heirs), to Fujitsu Limited. Semiconductor integrated circuit device having fuse-type information storing circuit. 4,707,806, 11-17-87, Cl. 365-96.000.

Takemae, Yoshihiro; Nakano, Tomio; Nakano, Masao; and Sato, Kimiaki, to Fujitsu Limited. Semiconductor memory device having extended period for outputting data. 4,707,811, 11-17-87, Cl. 365-239.000.

Takemae, Yoshihiro: *See*—
Baba, Fumio; and Takemae, Yoshihiro, 4,680,734, Cl. 365-190.000.
Nakano, Masao; Takemae, Yoshihiro; Sato, Kimiaki; and Kodama, Nobumi, 4,704,706, Cl. 365-203.000.
Nakano, Masao; Takemae, Yoshihiro; Nakano, Tomio; Nozaki, Shigeki; Sato, Kimiaki; and Kodama, Nobumi, 4,716,549, Cl. 365-203.000.

Takemasa, Arihiko: *See*—
Komaki, Akio; Hayakawa, Takumi; Yoneda, Tadashi; Miura, Asahiko; Wada, Hironao; Matsubayashi, Satoshi; and Takemasa, Arihiko, 4,652,505, Cl. 429-131.000.

Takemasa, Kaoru: *See*—
Kato, Itsuo; Kanimura, Tetsuro; Takemasa, Kaoru; and Onishi, Junichi, 4,672,477, Cl. 360-96.200.

Takemasa, Masami, to Diesel Kiki Co., Ltd. Deodorizing device of an air conditioning system for automotive vehicles. 4,677,902, 7-7-87, Cl. 98-2.110.

Takematsu, Tetsuo; Takeuchi, Yasutomo; Hiraishi, Kozo; Fujii, Toshikazu; Nishimula, Shoji; Suzuki, Motoyuki; Sato, Masahiro; and Hayashi, Hiroshi, to Sanyo Chemical Industries, Ltd. Herbicidal amide compounds and their uses. 4,657,581, 4-14-87, Cl. 71-118.000.

Takematsu, Tetsuo; Konnai, Makoto; Shimizu, Kuniaki; Urushibata, Ikumi; and Kajiwara, Ikuo, to Kumiai Chemical Industry Co., Ltd.; and Ihara Chemical Industry Co., Ltd. Trifluoromethanesulfonanilide compounds and herbicidal compositions containing them. 4,659,371, 4-21-87, Cl. 71-103.000.

Takematsu, Tetsuo; Nishii, Masahiro; and Kobayashi, Izumi, to Idemitsu Kosan Company Limited. Triazine derivatives, a process for preparing the derivatives, and herbicides containing the derivatives as the effective component. 4,680,054, 7-14-87, Cl. 71-93.000.

Takematsu, Tetsuo; Suzuki, Akinori; Toda, Kazuya; and Goto, Masuo, to Yashima Chemical Industrial Co., Ltd. Phenylacetanilide derivatives. 4,685,962, 8-11-87, Cl. 71-118.000.

Takemoto, Eiji: *See*—
Hishinuma, Osamu; Masuda, Akira; Ohmori, Toshihiko; Miyaki, Masahiko; and Takemoto, Eiji, 4,671,239, Cl. 123-458.000.
Nagase, Masaomi; Takemoto, Eiji; Ibuki, Noritaka; and Hasegawa, Takashi, 4,714,068, Cl. 123-506.000.

Takemoto, Ichiki; Sumida, Seizo; Yoshida, Ryo; and Kamashita, Katsuzo, to Sumitomo Chemical Company, Limited. Urea derivatives, and their use as herbicides. 4,690,709, 9-1-87, Cl. 71-120.000.

Takemoto, Ichiki: *See*—
Nagano, Eiki; Takemoto, Ichiki; Fukushima, Masayuki; Yoshida, Ryo; and Matsumoto, Hiroshi, 4,670,043, Cl. 71-92.000.

Takemoto, Kenichi: *See*—
Ohta, Kazutoshi; Takemoto, Kenichi; and Makino, Katsumi, 4,666,743, Cl. 427-265.000.

Takemoto, Nagaaki: *See*—
Yamaguchi, Katsumori; and Takemoto, Nagaaki, 4,679,575, Cl. 131-365.000.

Takemoto, Seiso: *See*—
Oushiden, Hideshi, and Takemoto, Seiso, 4,650,317, Cl. 355-57.000.

Takemoto, Tadashi; and Ariyoshi, Yasuo, to Ajinomoto Company Incorporated. Process for producing α-L-aspartyl-L-phenylalanine methyl ester for its hydrochloride. 4,684,745, 8-4-87, Cl. 560-41.000.

Takemoto, Tadashi: *See*—
Hisamitsu, Kunio; Takemoto, Tadashi; and Yukawa, Toshihide, 4,673,744, Cl. 544-385.000.
Hisamitsu, Kunio; Takemoto, Tadashi; Hijiya, Toyoto; and Takahashi, Satoji, 4,680,403, Cl. 546-247.000.

Takemoto, Takeshi, to Ricoh Company, Ltd. Electromagnetic hammer printing device including a limited action spring force. 4,708,501, 11-24-87, Cl. 400-157.200.

Takemoto, Toyoki: *See*—
Kawakita, Kenji; Nomura, Noboru; and Takemoto, Toyoki, 4,685,198, Cl. 437-73.000.

Takemoto Yushi Kabushiki Kaisha: *See*—
Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko, 4,649,206, Cl. 549-435.000.
Namiki, Mitsuo; Osawa, Toshihiko; Fukuda, Yasuko; and Ozaki, Tatsuhiko, 4,708,820, Cl. 252-398.000.

Takemura, Kouchi; and Shiomi, Tadashi, to Kabushiki Kaisha Kamuchi Denki Seisakusho. Detection device for contact fusion in an electromagnetic contactor. 4,713,716, 12-15-87, Cl. 361-2.000.

Takemura, Makoto: *See*—
Yoshimura, Shigeru; Suzuki, Tetsuo; and Takemura, Makoto, 4,692,788, Cl. 346-145.000.

Takemura, Reiji: *See*—
Seko, Naomi; Takemura, Reiji; and Miyamori, Hideharu, 4,643,818, Cl. 204-253.000.

Takemura, Shinji; Hida, Tsuneo; Matsuzaki, Yutaka; and Ohoushi, Kenichi, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Apparatus for automatically opening and closing an opening covering member. 4,634,945, 1-6-87, Cl. 318-469.000.

Takemura, Tetsuo; and Gohara, Shinobu, to Hitachi, Ltd. Time switch in a time division switching network. 4,680,752, 7-14-87, Cl. 370-63.000.

Takemura, Tohru; Nakashima, Atushi; Yoshida, Haruhiko; Kamo, Jun; and Hamada, Eiichi, to Mitsubishi Rayon Co., Ltd. Blood oxygenator using a hollow-fiber membrane. 4,639,353, 1-27-87, Cl. 422-46.000.

Takemura, Tohru; Itoh, Hajime; Kamo, Jun; and Yoshida, Haruhiko, to Mitsubishi Rayon Co., Ltd. Multilayer composite hollow fibers and method of making same. 4,713,292, 12-15-87, Cl. 428-373.000.

Takemura, Yasuhiko: *See*—
Miyabayashi, Toshio; Sakabe, Nobuyuki; Udagawa, Yoshiyuki; Enyo, Hiroji; and Takemura, Yasuhiko, 4,675,362, Cl. 525-208.000.
Saito, Kazuyoshi; Iida, Taketoshi; Shirasaka, Toshio; and Takemura, Yasuhiko, 4,665,924, Cl. 128-660.000.

Takemura, Yoshihiro: *See*—
Yazaki, Asao; Sunaba, Takashi; and Takemura, Yoshihiro, 4,703,211, Cl. 310-179.000.

Takemura, Yoshinari; Obara, Kazuaki; and Nagashima, Michiyoshi, to Matsushita Electric Industrial Co., Ltd. Optical disk and method for reproducing reference signal therefrom. 4,712,204, 12-8-87, Cl. 369-32.000.

Takemura, Yoshinobu; Kawamoto, Masuo; Hashizume, Masahiro; and Nagata, Katsumi, to Mita Industrial Co., Ltd. Document detecting apparatus. 4,659,214, 4-21-87, Cl. 355-75.000.

Taken, Michael E.: *See*—
Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., 4,706,174, Cl. 363-9.000.
Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., 4,706,175, Cl. 363-9.000.
Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., 4,706,183, Cl. 363-157.000.
Schutten, Herman P.; Sackett, Robert W.; Sedivy, Jan K.; and Taken, Michael E., 4,706,184, Cl. 363-157.000.

Takenaga, Mutsuo: *See*—
Yamada, Noboru; Nishiuchi, Kenichi; and Takenaga, Mutsuo, 4,659,588, Cl. 427-42.000.

Takenaka, Hirofumi: *See*—
Kishida, Hiroo; and Takenaka, Hirofumi, 4,641,816, Cl. 254-228.000.
Kishida, Hiroo; and Takenaka, Hirofumi, 4,710,994, Cl. 14-1.000.

Takenaka, Hiroyuki; Shigemura, Tatsuhiko; Waseda, Masashi; Miura, Toshiaki; Hoshino, Noriyuki; and Nakashima, Mitsunori, to Mitsubishi Jukogyo Kabushiki Kaisha. Apparatus for detecting a gap in the junction area on a folded box. 4,704,034, 11-3-87, Cl. 356-429.000.

Takenaka, Kenji; Ohta, Masaki; and Kayukawa, Hiroaki, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Variable displacement wobble plate type compressor with wobble angle control unit. 4,685,866, 8-11-87, Cl. 417-222.000.

Takenaka, Kenji; Suzuki, Shinichi; Kayukawa, Hiroaki; and Ohta, Masaki, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Variable displacement wobble plate type compressor with improved wobble angle return system. 4,702,677, 10-27-87, Cl. 417-222.000.

Takenaka, Kenji: *See*—
- Futamura, Kenichiro; Ohtsu, Kenichiro; Fukuoka, Tatsuhiko; Takenaka, Kenji; Itakura, Yoshio; and Koga, Hiroshi, 4,641,570, Cl. 92-71.000.
- Inagaki, Mitukane; Ohta, Masaki; Hyodo, Akihiko; Takenaka, Kenji; Mitibata, Takashi; Suzuki, Shinichi; and Kayukawa, Hiroaki, 4,712,982, Cl. 417-222.000.
- Ohta, Masaki; Suzuki, Shinichi; and Takenaka, Kenji, 4,674,957, Cl. 417-222.000.
- Suzuki, Shigeru; Ohta, Masaki; and Takenaka, Kenji, 4,687,419, Cl. 417-222.000.
- Suzuki, Shinichi; Takenaka, Kenji; and Ohta, Masaki, 4,688,997, Cl. 417-222.000.

Takenaka, Kiyoshi; Ohtsuji, Masahiko; and Kabuto, Hiroaki, to Dainippon Screen Mfg. Co., Ltd. Copying machine with original-position confirming device. 4,707,117, 11-17-87, Cl. 355-3.0SH.

Takenaka, Kiyoshi: *See*—
- Takagi, Tsuneo; Tanabe, Kenjiro; Fukushima, Masao; Kyushima, Hiroki; Takenaka, Kiyoshi; Okada, Akira; and Isogaki, Yoshinor, 4,641,951, Cl. 355-7.000.

Takenaka Kohmuten Co., Lt.: *See*—
- Kanno, Haruki; Tsuyoshi, Hidekazu; Nishiiakagawa, Kou; Hara, Makoto; Mochida, Tetsuo; Hisaka, Tsugio; Miyaki, Munekazu; Kawarada, Minoru; and Kawarabayashi, Hideaki, 4,643,617, Cl. 405-222.000.

Takenaka Komuten Co.: *See*—
- Tsuji, Eiji; Igawa, Norio; Tabuchi, Hiroshi; and Horiike, Tomoji, 4,676,152, Cl. 99-468.000.

Takenaka Komuten Co., Ltd.: *See*—
- Ohkochi, Katsutoshi; Shinozaki, Mamoru; Ohshita, Toshiyuki; Kitano, Masayasu; and Kamata, Seizo, 4,706,753, Cl. 166-286.000.
- Suzuki, Yoshio; Yamamoto, Mitsuoki; and Hosomi, Hisashi, 4,692,065, Cl. 405-211.000.
- Suzuki, Yoshio; Suzuki, Yoshio; Saitoh, Satoshi; Yamamoto, Mituoki; and Hosomi, Hisashi, 4,693,637, Cl. 405-224.000.

Takenaka, Naoki: *See*—
- Hirayama, Noriyuki; Ohshima, Masaaki; Takenaka, Naoki; and Kino, Yoshihiro, 4,661,960, Cl. 372-45.000.

Takenaka, Sadao: *See*—
- Fukuda, Eisuke; Takeda, Yukio; Daido, Yoshimasa; Nakamura, Hiroshi; Sasaki, Susumu; and Takenaka, Sadao, 4,665,532, Cl. 375-19.000.

Takenaka, Shigeo; Koike, Norio; Itou, Takeo; and Matsuda, Hidemi, to Kabushiki Kaisha Toshiba. Color cathode ray tube having shadow mask with silicon, 4,692,659, 9-8-87, Cl. 313-402.000.

Takenaka, Shigeo; Kamohara, Eiji; and Nishimura, Takashi, to Kabushiki Kaisha Toshiba. Color cathode ray tube with plural electron gun assemblies, 4,712,038, 12-8-87, Cl. 313-2.100.

Takenaka, Shigeo, and Kamohara, Eiji, to Kabushiki Kaisha Toshiba. Electron gun with large aperture auxiliary electrode. 4,712,043, 12-8-87, Cl. 315-15.000.

Takenaka, Shigeo; Kamohara, Eiji; and Nishimura, Takashi, to Kabushiki Kaisha Toshiba. Color cathode ray tube with plural electron gun assemblies. 4,714,856, 12-22-87, Cl. 313-2.100.

Takenaka, Shinji; Oi, Ryu; and Shimakawa, Chitoshi, to Mitsui Toatsu Chemicals, Inc. Process for producing m-hydroxybenzyl alcohol. 4,684,449, 8-4-87, Cl. 204-75.000.

Takenaka, Shinji; and Oi, Ryu, to Mitsui Toatsu Chemicals, Inc. Process for production of m-phenoxybenzyl alcohol. 4,694,110, 9-15-87, Cl. 568-638.000.

Takenaka, Shinji: *See*—
- Maeda, Sadayuki; Shinoo, Yasutaka; Takenaka, Shinji; Arashida, Susumu; and Shimizu, Iwao, 4,670,607, Cl. 568-427.000.

Takenaka, Takaji; Watanabe, Hideki; and Imada, Haruhiko, to Hitachi Microcomputer Engineering, Ltd.; and Hitachi, Ltd. Multilayer circuit board. 4,706,165, 11-10-87, Cl. 361-403.000.

Takenaka, Toichi: *See*—
- Imai, Kazuo; Niigata, Kunihiro; Fujikura, Takashi; Hashimoto, Shinichi; and Takenaka, Toichi, 4,703,063, Cl. 514-603.000.

Takenaka, Toshio, to Mitsubishi Denki Kabushiki Kaisha. Remote-controlled mobile inspecting and monitoring system. 4,661,308, 4-28-87, Cl. 376-245.000.

Takenaka, Toshio: *See*—
- Sugimoto, Hiroshi; and Takenaka, Toshio, 4,650,636, Cl. 376-250.000.

Takenaka, Yuji: *See*—
- Kaneko, Rokusaburo; and Takenaka, Yuji, 4,643,562, Cl. 355-56.000.

Takeno, Hidekazu: *See*—
- Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Atsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.

Takeno, Ryuko: *See*—
- Imaizumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko; Murotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka, Kiyoshi; Takano, Shuntaro; and Saikawa, Isamu, 4,656,287, Cl. 548-194.000.
- Sadaki, Hiroshi; Imaizumi, Hiroyuki; Takeda, Kenji; Inaba, Takihiro; Takeno, Ryuko; Morita, Seishi; Kajita, Tetsuya; and Saikawa, Isamu, 4,667,040, Cl. 548-195.000.

Takeno, Shozo; Shimizu, Toshio; and Saito, Takashi, to Kabushiki Kaisha Toshiba; and Nippon Telegraph & Telephone Corporation. Thermal print head. 4,680,593, 7-14-87, Cl. 346-76.0PH.

Takenoshita, Hidemitsu: *See*—
- Hattori, Hisashi; Takenoshita, Hidemitsu; and Hanada, Yoichiro, 4,708,068, Cl. 110-245.000.

Takenouchi, Junji, to Victor Company of Japan, Ltd. Automatic tape loading type recording and/or reproducing apparatus having magnetic tape fast-forwarding and rewinding modes. 4,704,644, 11-3-87, Cl. 360-85.000.

Takenouchi, Masanori: *See*—
- Ikeda, Takeshi; Imai, Eiichi; Fukumoto, Hiroshi; Tanaka, Katsuhiko; Suematsu, Koshi; Urawa, Motoo; and Takenouchi, Masanorit 4,663,263, Cl. 430-110.000.
- Kan, Fumitaka; Hayakawa, Naoji; Majima, Toshiaki; Takenouchi, Masanori; Yamamoto, Mitsuru; Suzuki, Hidetoshi; and Nomura, Ichiro, 4,675,699, Cl. 346-76.00R.
- Suematsu, Koshi; Takenouchi, Masanori; Urawa, Motoo; and Ikeda, Takeshi, 4,666,814, Cl. 430-126.000.

Takenouchi, Shigeki: *See*—
- Yamazaki, Toshinori; Nakanishi, Tatsuo; Marukawa, Yuji; Takenouchi, Shigeki; and Nomori, Hiroyuki, 4,673,629, Cl. 430-58.000.

Takenoya, Hideaki; Inamori, Mikio; and Shomura, Eiichi, to Janome Sewing Machine Co. Ltd. Computer controlled sewing machine. 4,640,210, 2-3-87, Cl. 112-456.000.

Takenoya, Hideaki; Syomura, Eiichi; and Inamori, Mikio, to Janome Sewing Machine Co. Ltd. Stitching patterns for adjusting feed amount in an electronic control sewing machine. 4,649,845, 3-17-87, Cl. 112-439.000.

Takenoya, Hideaki; and Mishima, Fumiyuki, to Janome Sewing Machine Industry Co., Ltd. Platen and paper drive in an inked-platen wire-dot impact printer. 4,697,941, 10-6-87, Cl. 400-185.000.

Takenoya, Hideaki: *See*—
- Hanyu, Susumu; Takenoya, Hideaki; and Mishima, Fumiyuki, 4,664,545, Cl. 400-616.200.

Takeo, Saegusa; Horikawa, Jiro; Niwano, Masahiro; and Kanazawa, Takenobu, to Sumitomo Chemical Company, Limited. Star block copolymer from lactam and polyol and process for the production thereof. 4,650,608, 3-17-87, Cl. 540-451.000.

Takeo, Tadashi: *See*—
- Kikuchi, Uhee; and Takeo, Tadashi, 4,714,044, Cl. 118-314.000.

Takeo, Yasuhiro: *See*—
- Nakayama, Toshihiko; Moriguchi, Fujio; Murayama, Tomio; and Takeo, Yasuhiro, 4,638,329, Cl. 346-76.0PH.

Takeo, Yuji; Yoshimi, Tomohisa; Shinoda, Yoshio; and Nomura, Ken, to Nippondenso Co., Ltd. Apparatus for holding a motor vehicle door in a desired opening degree thereof. 4,674,230, 6-23-87, Cl. 49-32.000.

Takeoka, Seiei, to Niles Parts Co., Ltd. Apparatus for preventing a roundabout of supersonic wave in a supersonic wave transmitter and receiver for a vehicle. 4,695,985, 9-22-87, Cl. 367-87.000.

Takeoka, Takahisa: *See*—
- Shimada, Yukio; Obata, Yutaka; Takeoka, Takahisa; and Katoh, Toyotoshi, 4,658,595, Cl. 62-179.000.

Takeoka, Yoshikatsu; and Yasuda, Nobuaki, to Tokyo Shibaura Denki Kabushiki Kaisha. Optical protuberant bubble recording medium. 4,647,947, 3-3-87, Cl. 346-135.100.

Takeoka, Yoshikatsu; Ozawa, Norio; and Yasuda, Nobuaki, to Kabushiki Kaisha Toshiba. Method of producing an optical information recording medium. 4,663,008, 5-5-87, Cl. 204-192.260.

Takeoka, Yoshikatsu; Ozawa, Norio; and Yasuda, Nobuaki, to Kabushiki Kaisha Toshiba. Optical type information recording medium and manufacturing method thereof. 4,702,991, 10-27-87, Cl. 430-270.000.

Takesa, Kazuhiko: *See*—
- Tsuchimoto, Yoshihiro; and Takesa, Kazuhiko, 4,697,615, Cl. 137-340.000.

Takesako, Kazutoh: *See*—
- Beppu, Teruhiko; Takesako, Kazutoh; Nakamura, Teruya; and Obayashi, Akira, 4,703,128, Cl. 549-270.000.

Takesako, Sumiyoshi, to Kabushiki Kaisha Toshiba. Automatic-transfer-transaction processing apparatus. 4,641,239, 2-3-87, Cl. 364-408.000.

Takesako, Sumiyoshi, to Tokyo Shibaura Denki Kabushiki Kaisha. Apparatus for sorting sheets. 4,694,963, 9-22-87, Cl. 209-534.000.

Takeshiba, Hideo; Kinoto, Takao; and Jojima, Teruomi, to Sankyo Company Limited. Pyridazinone derivatives and their use as agricultural fungicides. 4,661,486, 4-28-87, Cl. 514-252.000.

Takeshima, Akira: *See*—
- Tsuchiya, Yutaka; Koishi, Musubu; and Takeshima, Akira, 4,645,918, Cl. 250-213.0VT.
- Tsuchiya, Yutaka; Koishi, Musubu; and Takeshima, Akira, 4,694,154, Cl. 250-213.0VT.
- Tsuchiya, Yutaka; Aoshima, Shinichirou; and Takeshima, Akira, 4,705,397, Cl. 356-345.000.

Takeshima, Rikio: *See*—
Harada, Saburo; Yoshino, Takao; Takeshima, Rikio; Sengan, Masakazu; and Kisset, Kyoichi, 4,669,939, Cl. 414-173.000.
Takeshima, Sadao; and Yabe, Hideo, to Jidosha Kiki Co., Ltd. Control device for power steering apparatus. 4,702,334, 10-27-87, Cl. 180-142.000.
Takeshima, Tohru: *See*—
Ooami, Kazuo; Sugo, Yasuhisa; and Takeshima, Tohru, 4,692,900, Cl. 365-63.000.
Takeshita, Akira: *See*—
Kayane, Yutaka; Sawamoto, Hirokazu; Omura, Takashi; Harada, Naoki; and Takeshita, Akira, 4,701,524, Cl. 534-642.000.
Miyamoto, Tetsuya; Omura, Takashi; Harada, Naoki; and Takeshita, Akira, 4,684,721, Cl. 540-126.000.
Takeshita, Fumitaka: *See*—
Arakawa, Satoshi; Toyota, Makoto; and Takeshita, Fumitaka, 4,667,230, Cl. 358-98.000.
Toyota, Makoto; Takeshita, Fumitaka; and Arakawa, Satoshi, 4,697,210, Cl. 358-98.000.
Takeshita, Hajime; Iwase, Takahiro; Masuda, Naofumi; Sibata, Takuo; Mochizuki, Hiroyuki; Kobayashi, Nobuo; Kawakami, Seiho; and Kuroiwa, Yosio, to Toyota Jidosha Kabushiki Kaisha. Method of broaching outer periphery of lobe-type rotor of roots-type fluid machine, and broaching cutter used in the method. 4,693,813, 9-15-87, Cl. 409-244.000.
Takeshita, Kazuyoshi, to Sony Corporation. Solid state image pickup. 4,638,361, 1-20-87, Cl. 358-213.000.
Takeshita, Kazuyoshi; and Hashimoto, Takeo, to Sony Corporation. Solid state image pickup device in which the transfer gate areas are supplied with negative voltage during the vertical transfer period and light receiving period but not when the positive read-out pulse period is applied. 4,663,771, 5-5-87, Cl. 377-58.000.
Takeshita, Keiji; Hamano, Hideo; Ohshima, Shoichi; Suzuki, Takaaki; and Iida, Shuichiro, to Toyota Jidosha Kabushiki Kaisha. Lubrication arrangement in change-speed gearing assembly. 4,674,600, 6-23-87, Cl. 184-6.120.
Takeshita, Keiji: *See*—
Hamano, Hideo; Takeshita, Keiji; and Funato, Yasumichi, 4,697,781, Cl. 248-559.000.
Horiuchi, Ichiro; Ohshima, Shouch; and Takeshita, Keiji, 4,660,433, Cl. 74-476.000.
Takeshita, Koji: *See*—
Katayama, Kazuso; Mori, Yasushi; Kanki, Hiroshi; Moru, Shigeki; Takeshita, Koji; Ozawa, Yutaka; and Yoshida, Zenichi, 4,660,838, Cl. 277-97.000.
Takeshita, Tetsurou: *See*—
Harase, Jiro; Ohta, Kuniteru; Takeshita, Tetsurou; and Endo, Michio, 4,709,742, Cl. 164-76.100.
Takesue, Masahiko: *See*—
Okada, Tahei; and Takesue, Masahiko, 4,634,543, Cl. 252-78.500.
Takesue, Masatoshi: *See*—
Imao, Shoji; Nakamoto, Hideo; Osaka, Norihisa; Takesue, Masatoshi; Kodama, Hitoshi; Suzuki, Kimuko; and Inoroto, Masataka, deceased, 4,704,328, Cl. 428-324.000.
Taketa, Kazuhiko: *See*—
Yasuda, Isao; Yoshisato, Yorinobu; Yoshikawa, Hideki; and Taketa, Kazuhiko, 4,713,709, Cl. 360-121.000.
Taketani, Mitsuhiro, to Kabushiki Kaisha Toshiba. Sheet loading device and method for a printing apparatus. 4,702,632, 10-27-87, Cl. 400-639.100.
Taketani, Toshinobu; Kuramori, Ken; Sakamoto, Sunji; and Fuji, Hiroshi, to Mazda Motor Corporation. Vehicle assembly line. 4,683,651, 8-4-87, Cl. 29-786.000.
Taketoh, Kiyoshi: *See*—
Koda, Toshihide; Honda, Tetsuya; Taketoh, Kiyoshi; and Yoshida, Tadahiro, 4,667,474, Cl. 60-517.000.
Taketomo, Eiji; and Hara, Yukiaki, to Nippon Steel Corporation. Gas separation module. 4,671,809, 6-9-87, Cl. 55-158.000.
Taketoshi, Kouichi: *See*—
Akama, Yasuyuki; Musa, Ikuo; and Taketoshi, Kouichi, 4,677,561, Cl. 364-449.000.
Takeuchi, Akihiko, to Canon Kabushiki Kaisha. Electrophotographic apparatus. 4,641,158, 2-3-87, Cl. 346-160.000.
Takeuchi, Akihiko, to Canon Kabushiki Kaisha. Image forming apparatus. 4,709,250, 11-24-87, Cl. 346-160.000.
Takeuchi, Akihiro: *See*—
Kusube, Haruo; Ochiai, Kiyoshi; Fukumoto, Tetsuhiro; and Takeuchi, Akihiro, 4,703,788, Cl. 152-209.00R.
Takeuchi, Hajime: *See*—
Hashimoto, Minoru; Takeuchi, Hajime; and Itoh, Takeo, 4,695,513, Cl. 428-425.900.
Ito, Takeo; Takeuchi, Hajime; Hashimoto, Minoru; and Maeda, Tatsumi, 4,714,654, Cl. 428-328.000.
Takeuchi, Hideo; Kobayashi, Michiaki; Yoritsune, Osamu; and Matsumoto, Takemasa, to Dai Nippon Insatsu Kabushiki Kaisha; and Mitsubishi Jukogyo Kabushiki Kaisha. Method of presetting plate cylinders for registering in an offset printing press. 4,694,749, 9-22-87, Cl. 101-426.000.
Takeuchi, Hideo; Kobayashi, Michiaki; and Shibasaki, Makoto, to Dai Nippon Insatsu Kabushiki Kaisha. Method for adjusting an ink fountain in a printing press and ink fountains. 4,703,691, 11-3-87, Cl. 101-365.000.
Takeuchi, Hiroaki: *See*—
Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; Yamanaka, Toshihiko; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,655,509, Cl. 303-10.000.
Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; and Yamanaka, Toshihiko, 4,660,899, Cl. 303-115.000.
Takeuchi, Hiromi: *See*—
Kasai, Kiyoshi; Hattori, Masayuki; Kikuchi, Osamu; Takeuchi, Hiromi; Hirai, Haruhiro; and Sakurai, Nobuo, 4,694,035, Cl. 524-458.000.
Takeuchi, Hiroo; and Hachiro, Nobuaki, to Nissin Kogyo Kabushiki Kaisha. Master cylinder-reducing valve assembly. 4,669,268, 6-2-87, Cl. 60-591.000.
Takeuchi, Hirosato; and Mikiya, Toshio, to Nitto Kohki Co., Ltd. Solar heat collector. 4,649,903, 3-17-87, Cl. 126-443.000.
Takeuchi, Hirosato; and Mikiya, Toshio, to Nitto Kohki Co., Ltd. Solar heat collector. 4,653,471, 3-31-87, Cl. 126-433.000.
Takeuchi, Hiroshi; Majima, Hidekazu; and Fukushima, Hirotaka, to Kabushiki Kaisha Daikin Seisakusho. Clutch cover assembly. 4,646,892, 3-3-87, Cl. 192-70.270.
Takeuchi, Hiroshi; Nakaya, Chitose; and Katakura, Kageyoshi, to Hitachi, Ltd.; and Hitachi Medical Corporation. Composite ultrasonic transducers and methods for making same. 4,683,396, 7-28-87, Cl. 310-358.000.
Takeuchi, Hiroshi, to Kabushiki Kaisha Daikin Seisakusho. Device for adjusting a clearance of a twin clutch. 4,684,002, 8-4-87, Cl. 192-70.250.
Takeuchi, Hiroshi: *See*—
Fujito, Nobutoshi; and Takeuchi, Hiroshi, 4,657,128, Cl. 192-113.00A.
Kushida, Keiko; and Takeuchi, Hiroshi, 4,677,336, Cl. 310-334.000.
Kushida, Keiko; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,692,653, Cl. 310-334.000.
Nakaya, Chitose; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,658,176, Cl. 310-334.000.
Teshima, Manami; Tsuchino, Hisanori; Takeuchi, Hiroshi; and Shimada, Fumio, 4,654,533, Cl. 250-484.100.
Umemura, Shin'ichiro; Takeuchi, Hiroshi; Katakura, Kageyoshi; and Nakaya, Chitose, 4,680,499, Cl. 310-334.000.
Umemura, Shinichiro; Takeuchi, Hiroshi; and Katakura, Kageyoshi, 4,692,654, Cl. 310-334.000.
Takeuchi, Hirotaka; Asai, Jiro; Yamada, Yasuhumi; and Yanase, Sumio, to Nippondenso Co., Ltd. Rectifying system for magnet-type AC generator. 4,701,692, 10-20-87, Cl. 322-90.000.
Takeuchi, Hiroyuki: *See*—
Takagi, Hiroshi; Koike, Kouichi; and Takeuchi, Hiroyuki, 4,654,796, Cl. 364-414.000.
Takeuchi, Hisaharu: *See*—
Ohue, Kazuto; Kondou, Toshiyuki; Takeuchi, Hisaharu; and Ikeda, Yuzo, 4,663,222, Cl. 428-224.000.
Ohue, Kazuto; Kondou, Toshiyuki; Takeuchi, Hisaharu; and Ikeda, Yuzo, 4,707,269, Cl. 210-651.000.
Takeuchi, Hisao: *See*—
Higuchi, Matsuo; Miyake, Masaya; Takeuchi, Hisao; and Kamijo, Eiji, 4,659,508, Cl. 252-516.000.
Takeuchi, Hitoshi; Yamada, Naoki; Ikemura, Hisao; and Suzuki, Noriyasu, to Toyota Jidosha Kabushiki Kaisha; and Trinity Industrial Corporation. Electrostatic spray coating apparatus. 4,676,189, 6-30-87, Cl. 118-626.000.
Takeuchi, Hitoshi; and Ooishi, Shogo, to Toyota Jidosha Kabushiki Kaisha. Rotary type electrostatic spray painting device. 4,700,896, 10-20-87, Cl. 239-693.000.
Takeuchi, Hitoshi: *See*—
Iwata, Minoru; Takada, Shigetaka; and Takeuchi, Hitoshi, 4,657,189, Cl. 239-585.000.
Nakamura, Michier; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, 4,698,099, Cl. 106-288.00R.
Nakamura, Michier; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, 4,704,165, Cl. 106-308.00M.
Takeuchi, Junji: *See*—
Takemoto, Masahiro; Takeuchi, Junji; and Yamazaki, Yoshio, 4,713,419, Cl. 525-211.000.
Takeuchi, Kazumasa; Iwadachi, Takaharu; and Ikushima, Kazuo, to NGK Insulators, Ltd. Material for lead frames. 4,696,704, 9-29-87, Cl. 148-412.000.
Takeuchi, Kiyohumi: *See*—
Fujita, Yutaka; and Takeuchi, Kiyohumi, 4,670,182, Cl. 252-299.610.
Tanaka, Yasuyuki; Takatsu, Haruyoshi; and Takeuchi, Kiyohumi, 4,654,421, Cl. 544-335.000.
Tanaka, Yasuyuki; Takatsu, Haruyoshi; and Takeuchi, Kiyohumi, 4,698,177, Cl. 252-299.630.
Takeuchi, Kiyoshi: *See*—
Obayashi, Hiroaki; Kobayashi, Hiroshi; and Takeuchi, Kiyoshi, 4,677,595, Cl. 367-13.000.
Takeuchi, Kobuo: *See*—
Hotate, Makoto; Nishikawa, Toshio; Takeuchi, Kobuo; Okuno, Itaru; and Nakazumi, Tsutaka, 4,691,677, Cl. 123-399.000.
Takeuchi, Koichi; Yamanaka, Megumi; Inada, Hisanobu; Kubo, Masayoshi; Katayama, Hideaki; Tokunaga, Kenji; and Miyamoto, Yoshinori, to Bando Chemical Industries, Ltd.; and Mitsubishi Jukogyo Kabushiki Kaisha. Cutting device for cutting an annular body into belts. 4,649,780, 3-17-87, Cl. 82-48.000.
Takeuchi, Koichi; Yamanaka, Megumi; Kubo, Masayoshi; Katayama, Hideaki; and Tokunaga, Kenji, to Mitsubishi Jukogyo Kabushiki Kaisha; and Bando Chemical Industries, Ltd. Apparatus for molding a belt for transmitting power. 4,710,255, 12-1-87, Cl. 156-361.000.

Takeuchi, Koji: *See*—
Higuchi, Ryoichi; Sakurai, Takao; Mikami, Naoko; Akaiwa, Kiriko; and Takeuchi, Koji, 4,695,651, Cl. 560-141.000.
Hirai, Kiyomiki; Takeuchi, Koji; Sakamoto, Hiroshi; and Abe, Masahiro, 4,689,388, Cl. 528-104.000.
Takeuchi, Kunihiko; Baba, Fujio; Shimomura, Yasuo; and Morishige, Yuji, to Tokyo Keiki Company Limited. Set point change-over circuit for fluid control valves. 4,682,166, 7-21-87, Cl. 340-825.500.
Takeuchi, Kunihiko; and Morishige, Yuge, to Tokyo Keiki Company Ltd. Pulse motor control apparatus. 4,703,244, 10-27-87, Cl. 318-696.000.
Takeuchi, Kunihiko; and Nogi, Hiroshi, to Tokyo Keiki Company Limited. Fluid control valve. 4,706,703, 11-17-87, Cl. 137-487.500.
Takeuchi, Kunihiko: *See*—
Miller, Charles H.; Takeuchi, Kunihiko; and Goodridge, Paul A., 4,678,490, Cl. 65-14.000.
Takeuchi, Kunio, to Tokai TRW & Co., Ltd. Steering mechanism for automobile. 4,709,593, 12-1-87, Cl. 74-498.000.
Takeuchi, Makoto; Kitazumi, Etsuo; Sakaki, Hirokazu; and Okishi, Yoshio, to Fuji Photo Film Co., Ltd. Process for producing aluminum support for lithographic printing plate. 4,714,528, 12-22-87, Cl. 204-33.000.
Takeuchi, Makoto: *See*—
Saito, Toshinori; and Takeuchi, Makoto, 4,681,513, Cl. 417-2.000.
Takeuchi, Mamoru; Nemoto, Sadao; Suzuki, Shizuo; and Kawai, Juichiro, to Hitachi, Ltd. Supporting structure for underwater structure. 4,697,984, 10-6-87, Cl. 415-142.000.
Takeuchi, Masaharu: *See*—
Nonomura, Yutaka; Sugiyama, Jun; Komatsubara, Hirofumi; and Takeuchi, Masaharu, 4,697,459, Cl. 73-862.360.
Sugiyama, Jun; Komatsubara, Hirofumi; Shimaoka, Keiichi; Takeuchi, Masaharu; and Takeuchi, Takashi, 4,697,460, Cl. 73-862.360.
Takeuchi, Masami: *See*—
Yokoe, Jintaro; Takeuchi, Masami; and Tsuji, Toshiaki, 4,713,090, Cl. 55-68.000.
Takeuchi, Masaru: *See*—
Fukatsu, Takeo; Takeuchi, Masaru; and Goto, Kazuyuki, 4,680,607, Cl. 357-30.000.
Fukatsu, Takeo; Takeuchi, Masaru; and Gotoh, Kazuyuki, 4,689,438, Cl. 136-256.000.
Takeuchi, Masashi: *See*—
Kitaguchi, Hiroshi; Takeuchi, Masashi; Sato, Kozo; Tsukase, Masaaki; and Kato, Masatoshi, 4,678,739, Cl. 430-353.000.
Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; Tsukase, Masaaki; and Kato, Masatoshi, 4,696,887, Cl. 430-203.000.
Tsukase, Masaaki; Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; and Kato, Masatoshi, 4,695,525, Cl. 430-151.000.
Takeuchi, Masasi: *See*—
Kitaguchi, Hiroshi; Kato, Masatoshi; Sato, Kozo; Takeuchi, Masasi; and Tsukase, Masaaki, 4,678,735, Cl. 430-203.000.
Takeuchi, Masato: *See*—
Okada, Hideo; Takeuchi, Masato; Okabe, Sigeru; Tobita, Hiroshi, Matsuda, Shimpei; Tamura, Kohki; and Nakajima, Fumito, 4,656,735, Cl. 29-623.100.
Okada, Hideo; Okabe, Sigeru; Iwase, Yoshio; Takeuchi, Masato; and Tamura, Kohki, 4,699,853, Cl. 429-37.000.
Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunko; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Jinichi; Honji, Akio; Takeuchi, Masato; and Tamura, Kohki, 4,643,957, Cl. 429-41.000.
Takeuchi, Masatoshi; and Hamagaki, Takayasu, to Seiken Co., Ltd. Nonwoven fiber abrasive disk. 4,715,150, 12-29-87, Cl. 51-395.000.
Takeuchi, Masayoshi: *See*—
Kishida, Yoshifumi; and Takeuchi, Masayoshi, 4,643,774, Cl. 134-1.000.
Kishida, Yoshifumi; and Takeuchi, Masayoshi, 4,714,086, Cl. 134-83.000.
Takeuchi, Michikazu, to TDK Corporation. PTC resistor device. 4,635,026, 1-6-87, Cl. 338-22.0SD.
Takeuchi, Michikazu; and Ishizu, Yoshiaki, to TDK Corporation. Positive temperature coefficient thermistor device. 4,644,316, 2-17-87, Cl. 338-22.00R.
Takeuchi, Mikio: *See*—
Hirano, Motoki; Takeuchi, Mikio; and Nakano, Kinichiro, 4,688,036, Cl. 340-825.690.
Mochida, Haruo; Nakano, Kinichiro; Takeuchi, Mikio; and Hirano, Motoki, 4,672,375, Cl. 340-825.310.
Yamazaki, Yoshihide; Uchimura, Kazumi; Yamashita, Satoshi; and Takeuchi, Mikio, 4,695,614, Cl. 526-142.000.
Takeuchi, Morihisa: *See*—
Uchikawa, Fusaoki; Takeuchi, Morihisa; Shimamoto, Kozo; Miyao, Kunihiko; Momiyama, Kimio; and Watarai, Hisao, 4,673,910, Cl. 338-35.000.
Takeuchi, Motoki; and Nakamura, Junichi, to Fuji Photo Film Co., Ltd. Flexible magnetic disk and method of making same. 4,699,815, 10-13-87, Cl. 428-65.000.
Takeuchi, Naokazu: *See*—
Wakamiya, Sukeyoshi; Takeuchi, Naokazu; Hama, Yoshihisa; Akashi, Tatsu; and Shimura, Tatsuo, 4,666,394, Cl. 425-342.100.
Takeuchi, Nobuo; Hotate, Makoto; Kaneko, Tadashi; and Nishikawa, Toshio, to Mazda Motor Corporation. Fuel supply control system for engine. 4,665,878, 5-19-87, Cl. 123-492.000.
Takeuchi, Nobuo: *See*—
Hotate, Makoto; Kaneko, Tadashi; Nishikawa, Toshio; Nakazumi, Tadataka; and Takeuchi, Nobuo, 4,682,044, Cl. 290-40.00B.
Takeuchi, Nobuyuki: *See*—
Une, Atsunobu; Iki, Makoto; Takeuchi, Nobuyuki; and Deguchi, Kimiyoshi, 4,656,347, Cl. 250-201.000.
Takeuchi, Osamu: *See*—
Miyashita, Tsuneo; Yoshikoshi, Hideyuki; Nishio, Hiroaki; and Takeuchi, Osamu, 4,636,342, Cl. 264-82.000.
Takeuchi, Seiji, to Kabushiki Kaisha Toshiba. Carrier reproducing circuit for phase shift keying signals. 4,639,682, 1-27-87, Cl. 329-50.000.
Takeuchi, Seiji; and Anger, Byron H., to Don Fell Limited; and Donfab Investments, Inc. Inflatable bags. 4,641,760, 2-10-87, Cl. 220-1.00B.
Takeuchi, Seiji; and Anger, Byron H., to Don Fell Limited; and Donfab Investments, Inc. Inflatable bags. 4,684,026, 8-4-87, Cl. 206-522.000.
Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunko; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Jinichi; Honji, Akio; Takeuchi, Masato; and Tamura, Kohki, to Hitachi, Ltd. Fuel cell. 4,643,957, 2-17-87, Cl. 429-41.000.
Takeuchi, Shigeo, to Takeuchi Tekko Kabushiki Kaisha. Kitchen utensil. 4,640,467, 2-3-87, Cl. 241-152.00R.
Takeuchi, Shoji, to Kentek Information Systems, Inc. Disposable photoconductive belt assembly for a printer or a copier. 4,657,369, 4-14-87, Cl. 355-3.0BE.
Takeuchi, Shoji: *See*—
Narishima, Wataru; and Takeuchi, Shoji, 4,703,160, Cl. 235-1.00D.
Takeuchi, Siro: *See*—
Hamano, Masanori; Takeuchi, Siro; and Inoue, Ichiro, 4,678,640, Cl. 422-56.000.
Takeuchi, Tadashi; and Ushida, Kunihiro; to NGK Spark Plug Co., Ltd. Vibration sensor. 4,672,839, 6-16-87, Cl. 73-35.000.
Takeuchi, Tadashi: *See*—
Tsunooka, Tsutomu; Takeuchi, Tadashi; Ushida, Kunihiro; and Kawajiri, Shogo, 4,638,206, Cl. 310-313.00B.
Takeuchi, Takashi: *See*—
Kishine, Nobuyuki; Imamura, Tetsuya; Yamauchi, Michihide; and Takeuchi, Takashi, 4,661,402, Cl. 428-323.000.
Sugiyama, Jun; Komatsubara, Hirofumi; Shimaoka, Keiichi; Takeuchi, Masaharu; and Takeuchi, Takashi, 4,697,460, Cl. 73-862.360.
Takahashi, Hideaki; Kondo, Haruyoshi; Takeuchi, Takashi; and Hayakawa, Kiyoharu, 4,661,234, Cl. 204-406.000.
Takeuchi, Takeshi: *See*—
Kanai, Hiroyuki; Imamura, Tetsuya; Takeuchi, Takeshi; and Suzue, Shigetoshi, 4,675,250, Cl. 428-403.000.
Takeuchi, Tamio: *See*—
Noro, Takanobu; Koakutsu, Yasumasa; Takeuchi, Tamio; Yano, Masao; Onoda, Seiichi; Arima, Hideo; Yokono, Hitoshi; and Tanei, Hirayoshi, 4,715,673, Cl. 350-96.200.
Takeuchi, Tatsuo: *See*—
Hosono, Nagao; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hidemi; and Satomura, Hiroshi, 4,709,298, Cl. 361-213.000.
Inaba, Yutaka; Satomura, Hiroshi; Nagase, Yukio; Takeuchi, Tatsuo; Egami, Hidemi; and Hosaka, Akihito, 4,697,196, Cl. 346-159.000.
Nagase, Yukio; Egami, Hidemi; Takeuchi, Tatsuo; and Satomura, Hiroshi, 4,700,261, Cl. 361-225.000.
Satomura, Hiroshi; Takeuchi, Tatsuo; Egami, Hidemi; Nagase, Yukio; and Hosono, Nagao, 4,674,857, Cl. 355-3.00R.
Takeuchi Tekko Kabushiki Kaisha: *See*—
Takeuchi, Shigeo, 4,640,467, Cl. 241-152.00R.
Takeuchi, Tetsuhiko: *See*—
Toki, Motoyuki; Kanbe, Sadao; Miyashita, Satoru; and Takeuchi, Tetsuhiko, 4,681,615, Cl. 65-18.100.
Takeuchi, Tetsuo: *See*—
Mukunoki, Yasuo; Yokoyama, Shigeki; Kawasaki, Hiroshi; Nemori, Ryoichi; and Takeuchi, Tetsuo, 4,649,102, Cl. 430-527.000.
Takeuchi, Tomio: *See*—
Someno, Tetsuya; Kato, Kazuo; Takahashi, Yasushi; Ishii, Shinichi; Takeuchi, Tomio; and Umezawa, Hamao, 4,708,944, Cl. 502-7.000.
Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Iinuma, Hironobu; Ikeda, Daishiro; Nakamura, Teruya; and Fuji, Akio, 4,658,058, Cl. 564-159.000.
Umezawa, Hamao; Takeuchi, Tomio; Aoyagi, Takaaki; and Ohuchi, Shokichi, 4,661,495, Cl. 514-275.000.
Umezawa, Hamao; Aoyagi, Takaaki; Takeuchi, Tomio; Hamada, Masa; and Ishizuka, Masaaki, 4,663,342, Cl. 514-423.000.
Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Iinuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, 4,686,308, Cl. 564-219.000.
Umezawa, Hamao; Takeuchi, Tomio; Nagatsu, Toshiharu; Hamada, Masa; Iwadare, Shuichi; Matsumoto, Ikuo; and Morishima, Hajime, 4,699,879, Cl. 435-116.000.
Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Tanaka, Wataru; Takita, Tomohisa; Nishimura, Yoshio; and Yoshikawa, Hiroshi, 4,716,221, Cl. 536-17.200.
Takeuchi, Toru: *See*—
Teraji, Tsutomu; Kawada, Kazushige; Takeuchi, Toru; Sugita, Shinichi; Adachi, Toshikazu; and Yaqi, Hideo, 4,650,522, Cl. 106-314.000.
Takeuchi, Toshio; Tomita, Hiroshi; and Ogasawara, Takio, to Sanshin Kogyo Kabushiki Kaisha. Spark timing control device for internal combustion engine. 4,633,834, 1-6-87, Cl. 123-424.000.
Takeuchi, Toshio, to Toyo Menka Kaisha, Ltd. Flexible optical fibers for use in viewing devices. 4,709,985, 12-1-87, Cl. 350-96.250.
Takeuchi, Toyoaki; Ohshima, Ken; Kenjyo, Hideyuki; Ikeda, Yoshiaki; and Sakamoto, Masaharu, to Olympus Optical Co., Ltd. Micro-

processor controlled focussing servo acquisition. 4,683,560, 7-28-87, Cl. 369-45.000.
Takeuchi, Yasuhiro; Sakakibara, Yasuyuki; Igashira, Toshihiko; and Nohira, Hidetaka, to Nippon Soken, Inc.; and Toyota Jidosha Kabushiki Kaisha. Fuel supply device for an internal combustion engine. 4,711,216, 12-8-87, Cl. 123-447.000.
Takeuchi, Yasuhiro: *See*—
Igashira, Toshihiko; Sakakibara, Yasuyuki; Takeuchi, Yasuhiro; Abe, Seiko; and Nohira, Hidetaka, 4,667,638, Cl. 123-446.000.
Suzuki, Jiro; Nishino, Atsushi; Hosaka, Masato; Ono, Yukiyoshi; and Takeuchi, Yasuhiro, 4,676,737, Cl. 431-328.000.
Takeuchi, Yasuhito, to Yokogawa Medical Systems, Limited. Azimuth adaptive phased array sonar. 4,638,467, 1-20-87, Cl. 367-105.000.
Takeuchi, Yasuhito; Hirota, Yuichi; Sano, Shinichi; and Ishiguro, Shinichi, to Yokogawa Medical Systems, Limited. Ultrasound diagnostic equipment. 4,694,680, 9-22-87, Cl. 73-1.0DV.
Takeuchi, Yasuhito: *See*—
Hirota, Yuichi; Kodama, Toshikatsu; Akasaka, Hideya; and Takeuchi, Yasuhito, 4,674,516, Cl. 128-660.000.
Takeuchi, Yasushi: *See*—
Handa, Takayuki; Takeuchi, Yasushi; Kato, Masumi; and Seki, Hisazi, 4,684,430, Cl. 156-366.000.
Takeuchi, Yasutomo: *See*—
Takematsu, Tetsuo; Takeuchi, Yasutomo; Hiraishi, Kozo; Fujii, Toshikazu; Nishimula, Shoji; Suzuki, Motoyuki; Sato, Masahiro; and Hayashi, Hiroshi, 4,657,581, Cl. 71-118.000.
Takeuchi, Yayoi: *See*—
Nakayama, Kenji; and Takeuchi, Yayoi, 4,686,686, Cl. 375-11.000.
Takeuchi, Yo: *See*—
Kobayashi, Yasuo; Yoda, Michihiro; Goto, Hiromi; and Takeuchi, Yo, 4,699,673, Cl. 148-11.5QA.
Watanabe, Hideo; Ohori, Koichi; and Takeuchi, Yo, 4,645,543, Cl. 148-2.000.
Takeuchi, Yoji: *See*—
Sumiya, Kenji; and Takeuchi, Yoji, 4,698,279, Cl. 428-411.100.
Takeuchi, Yoshimitsu: *See*—
Watanabe, Akira; Takeuchi, Yoshimitsu; Kihara, Seiji; Mitsudoh, Makoto; and Wakabayashi, Yoh'ichi, 4,681,633, Cl. 106-35.000.
Takeuchi, Yoshio; Koizumi, Toru; and Hori, Kozo, to Daikin Industries, Ltd. Fluorine-containing multifunctional ester compound. 4,713,469, 12-15-87, Cl. 560-17.000.
Takeuchi, Yoshio: *See*—
Kusuki, Yoshihiro; Kikuchi, Masao; and Takeuchi, Yoshio, 4,654,910, Cl. 8-151.200.
Takeuchi, Yoshiyuki: *See*—
Nakamura, Kenchi; Honaga, Susumu; Suzuki, Mikio; and Takeuchi, Yoshiyuki, 4,676,334, Cl. 180-142.000.
Takeuchi, Yukihisa; and Masumori, Hideo, to NGK Insulators, Ltd. Ceramic composition for dielectrics. 4,649,125, 3-10-87, Cl. 501-15.000.
Takeuchi, Yukihisa; and Takagi, Makoto, to Nippondenso Co., Ltd. Method of manufacturing an amorphous-metal-coated structure. 4,711,795, 12-8-87, Cl. 427-130.000.
Takeuchi, Yukihisa: *See*—
Araki, Masatada; Kuroyama, Yutaka; Takeuchi, Yukihisa; Takagi, Makoto; and Imura, Toru, 4,713,871, Cl. 29-421.00E.
Hirayama, Tsukasa; Takeuchi, Yukihisa; and Miura, Yasunao, 4,662,911, Cl. 55-282.000.
Miura, Yasunao; Yoshida, Hitoshi; Takeuchi, Yukihisa, and Ito, Kazuyuki, 4,670,304, Cl. 427-227.000.
Okajima, Atushi; Yoshida, Hitoshi; Takeuchi, Yukihisa; and Fukutani, Masanori, 4,695,301, Cl. 55-523.000.
Takeuchiseisakusho Co., Ltd.: *See*—
Denda, Rinta, 4,650,393, Cl. 414-694.000.
Takeura, Tooru: *See*—
Kamo, Yoshihisa; Sato, Naoki; Kitada, Masahiro; and Takeura, Tooru, 4,663,684, Cl. 360-113.000.
Takeya, Akira: *See*—
Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.
Takeya, Eisaku: *See*—
Noguchi, Yoshikazu; Yokoi, Tatsuhisa; Takeya, Eisaku; and Osawa, Hideyuki, 4,648,373, Cl. 123-568.000.
Yokoi, Tatsuhisa; Takeya, Eisaku; Hattori, Kyo; Abe, Kazuo; and Osawa, Hideyuki, 4,672,939, Cl. 123-568.000.
Takeyama, Jun: *See*—
Suzuki, Tadashi; Koizumi, Hideo; Takeyama, Jun; and Tsukui, Kunitsugu, 4,671,696, Cl. 403-265.000.
Takeyama, Tetsu: *See*—
Ozawa, Tateki; Yotsumoto, Hatsuo; and Takeyama, Tetsu, 4,647,540, Cl. 435-291.000.
Takeyama, Yutaka: *See*—
Kiyono, Yasuhiro; and Takeyama, Yutaka, 4,691,116, Cl. 307-10.00R.
Kiyono, Yasuhiro; and Takeyama, Yutaka, 4,705,959, Cl. 307-9.000.
Takezaki, Jiro: *See*—
Endo, Akira; Takezaki, Jiro; Tsujii, Fumio; and Shibata, Takanori, 4,538,438, Cl. 364-449.000.
Tsujii, Fumio; Matsuoka, Yoji; Endo, Akira; Takezaki, Jiro; and Shirai, Hiroshi, 4,635,202, Cl. 364-449.000.
Takezawa, Hatsuo; Donuma, Kenichi; Katagiri, Shuhei; and Sakura, Shigeyuki, to Tokyo Shibaura Denki Kabushiki Kaisha. Duplex optical communication module unit. 4,695,858, 9-22-87, Cl. 357-19.000.
Takezawa, Junichi: *See*—
Ito, Michio; Kambayashi, Kiyoshi; and Takezawa, Junichi, 4,677,015, Cl. 428-201.000.
Takezawa, Makoto: *See*—
Shoji, Toru; Sugiyama, Mitsuru; Takezawa, Makoto; Akiba, Yuichi; Kaneko, Akira; and Sato, Mituo, 4,673,596, Cl. 427-262.000.
Takezawa, Yoshio; and Akatsu, Tatsuo, to Toray Industries, Inc. Polyphenylene sulfide resin compositions and their moldings. 4,690,969, 9-1-87, Cl. 524-413.000.
Takezoe, Osamu: *See*—
Asano, Kazuhiko; Takezoe, Osamu; Yasuda, Yoshinori; Hayashi, Kenji; Aoki, Masanobu; Doi, Yoshio; and Shimata, Makoto, 4,648,918, Cl. 148-439.000.
Takezono, Tetsuya; Amari, Takaaki; and Imai, Hirosuke, to Nippon Oil Company, Ltd. Process for isolating and recovering butene-1 of high purity. 4,645,576, 2-24-87, Cl. 203-30.000.
Takezono, Tetsuya: *See*—
Kobori, Yoshihiro; and Takezono, Tetsuya, 4,650,885, Cl. 549-498.000.
Kobori, Yoshihiro; and Takezono, Tetsuya, 4,656,307, Cl. 560-117.000.
Takhashi, Fumio, to Nippon Kogaku K. K. Eye fundus observing and photographing apparatus. 4,704,018, 11-3-87, Cl. 351-206.000.
Taki Chemical Co., Ltd.: *See*—
Yamamoto, Shin; and Nishikura, Hiroshi, 4,699,661, Cl. 106-162.000.
Taki, Hideo: *See*—
Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Konishi, Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Tai, Masaru; Watanabe, Yasuo; and Saikawa, Isamu, 4,673,738, Cl. 540-222.000.
Taki, Hirokazu; Kobayashi, Toyohiro; Naito, Akihiko; and Morino, Yoshikazu, to Mitsubishi Denki Kabushiki Kaisha. System of simultaneous translation into a plurality of languages with sentence forming capabilities. 4,654,798, 3-31-87, Cl. 364-419.000.
Taki, Hisao, to Kabushiki Kaisha (NKB Corportion). Information presenting system. 4,677,570, 6-30-87, Cl. 364-518.000.
Taki, Kazuhiro; and Sakuyama, Hideo, to Nippon Mining Co., Ltd. Corrosion-resistant titanium-base alloy. 4,666,666, 5-19-87, Cl. 420-421.000.
Taki, Koichi: *See*—
Nakagawa, Fumio; Nakamura, Kazuyoshi; Shibao, Hitoshi; Yoshimura, Hiroshi; Taki, Koichi; Inoue, Makoto; Hayashi, Eiji; Dejima, Fusao; and Kohara, Yuritoshi, 4,690,638, Cl. 432-81.000.
Taki, Masaru; Okada, Hiroshi; Kawamura, Seijiro; Kusumoto, Akio; Morita, Koji; Ikenaga, Takao; Shigematsu, Toshifumi; and Iida, Masami, to Toto Ltd. Sanitary facility room for clean room. 4,692,951, 9-15-87, Cl. 4-664.000.
Taki, Yoshihiro; Akado, Hajime; Funae, Keizo; and Inukai, Satoshi, to Nippondenso Co., Ltd. Filter element. 4,640,779, 2-3-87, Cl. 210-493.500.
Taki, Youichirou, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor integrated circuit device with high breakdown voltage level. 4,705,968, 11-10-87, Cl. 307-456.000.
Taktar, Hem P.; and Mehta, Kamal N., to National Semiconductor Corporation. Molded semiconductor package having improved heat dissipation. 4,684,975, 8-4-87, Cl. 357-70.000.
Taktar, Hem P.; Shah, Divyesh P.; and Hilton, Robert E., to National Semiconductor Corporation. Nickel plated copper tape. 4,707,418, 11-17-87, Cl. 428-675.000.
Takigawa, Hideaki: *See*—
Takizawa, Tatsuji; Noda, Nobutaka; and Takigawa, Hideaki, 4,682,878, Cl. 355-3.0FU.
Takigawa, Kazunori; and Suzuki, Ryoichi, to Usui Kokusai Sangyo Kabushiki Kaisha. Sliding exhaust gas brake. 4,685,544, 8-11-87, Cl. 188-273.000.
Takigawa, Koichi: *See*—
Saito, Kaoru; Noji, Akio; Kakuta, Yonehiro; and Takigawa, Koichi, 4,700,479, Cl. 33-366.000.
Takigawa, Masahiro: *See*—
Igashira, Toshihiko; Sakakibara, Yasuyuki; Abe, Seiko; Takigawa, Masahiro; and Izawa, Akihiro, 4,635,849, Cl. 239-102.200.
Takigawa, Masuhiko: *See*—
Takigawa, Shigetsugu; and Takigawa, Masuhiko, 4,709,480, Cl. 30-254.000.
Takigawa, Noboru; Fujita, Kenji; Kawase, Katsumi; and Higaki, Takahiro, to Sumitomo Heavy Industries, Ltd. Method of and apparatus for washing aircraft. 4,668,301, 5-26-87, Cl. 134-6.000.
Takigawa, Noboru: *See*—
Fujita, Kenji; Kawase, Katsumi; and Takigawa, Noboru, 4,654,087, Cl. 134-6.000.
Takigawa, Shigetsugu; and Takigawa, Masuhiko, to ARS Edge Co. Ltd. Scissors. 4,709,480, 12-1-87, Cl. 30-254.000.
Takigawa, Tadahiro: *See*—
Nishimura, Eiji; Takigawa, Tadahiro; and Kato, Yoshihide, 4,712,013, Cl. 250-492.200.
Takigawa, Tetsuo: *See*—
Ibata, Koichi; Takigawa, Tetsuo; Okada, Masafumi; Mizuno, Masao; and Nishida, Takashi, 4,668,820, Cl. 560-248.000.
Kameyama, Tsutomu; Kitamura, Jiro; Takigawa, Tetsuo; and Mizuno, Masao, 4,703,061, Cl. 514-551.000.
Takigawa, Toshimichi: *See*—
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Takigen Manufacturing Co. Ltd.: *See*—
Sugawara, Tomonobu, 4,646,472, Cl. 49-386.000.

Takahashi, Hiroyuki, 4,667,493, Cl. 70-366.000.
Yamada, Kenichi, 4,635,977, Cl. 292-92.000.

Takigen Seizou Co. Ltd.: *See*—
Sugimoto, Naoyuki, 4,704,884, Cl. 70-337.000.
Takasaki, Kunihiko, 4,650,230, Cl. 292-173.000.
Takasaki, Kunihiko, 4,704,882, Cl. 70-215.000.

Taliguchi, Eiji; Yuto, Kazuaki; and Oniki, Toru, to Bridgestone Corporation. Pneumatic tire having all-weather running performances. 4,640,952, 2-3-87, Cl. 524-296.000.

Takiguchi, Haruhisa; Kaneiwa, Shinji; Matsui, Sadayoshi; and Taneya, Mototaka, to Sharp Kabushiki Kaisha. Optical element in semiconductor laser device having a diffraction grating and improved resonance characteristics. 4,658,403, 4-14-87, Cl. 372-96.000.

Takiguchi, Haruhisa: *See*—
Kaneiwa, Shinji; Takiguchi, Haruhisa; Yoshida, Toshihiko; and Matsui, Sadayoshi, 4,692,206, Cl. 156-649.000.
Matsui, Sadayoshi; Taneya, Mototaka; Takiguchi, Haruhisa; and Kaneiwa, Shinji, 4,679,200, Cl. 372-45.000.
Yamamoto, Osamu; Matsui, Sadayoshi; Takiguchi, Haruhisa; Hayashi, Hiroshi; and Miyauchi, Nobuyuki, 4,655,597, Cl. 356-373.000.
Yamamoto, Osamu; Takiguchi, Haruhisa; and Matsui, Sadayoshi, 4,660,983, Cl. 356-445.000.
Yano, Seiki; Yamamoto, Saburo; Takiguchi, Haruhisa; and Kaneiwa, Shinji, 4,712,219, Cl. 372-45.000.
Yoshida, Toshihiko; Takiguchi, Haruhisa; Kaneiwa, Shinji; and Matsui, Sadayoshi, 4,716,570, Cl. 372-45.000.

Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, to Konishiroku Photo Industry Co., Ltd. Dye-sensitized light-sensitive core/shell silver halide photographic material. 4,701,405, 10-20-87, Cl. 430-567.000.

Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, to Konishiroku Photo Industry Co., Ltd. Dye sensitized light-sensitive core/shell silver halide photographic material. 4,704,351, 11-3-87, Cl. 430-567.000.

Takiguchi, Isao, to Yazaki Corporation. Connecting structure for high voltage resistance wires. 4,713,015, 12-15-87, Cl. 439-125.000.

Takiguchi, Takao: *See*—
Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; Umehara, Shoji; and Ishikawa, Shozo, 4,702,982, Cl. 430-72.000.
Umehara, Shoji; Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; and Ishikawa, Shozo, 4,666,810, Cl. 430-71.000.

Takiguchi, Yoshihiro: *See*—
Kato, Makoto; Takiguchi, Yoshihiro; and Kinoshita, Katsuyuki, 4,704,634, Cl. 358-217.000.

Takihana, Masatoshi: *See*—
Tamaki, Nobuaki; Sakuma, Shinzo; Fukai, Toshimasa; and Takihana, Masatoshi, 4,707,577, Cl. 200-144.00B.

Takii, Osamu, to Yamaha Hatsudoki Kabushiki Kaisha. Exhaust system for V-type engine. 4,653,270, 3-31-87, Cl. 60-302.000.

Takii, Osamu: *See*—
Kawashima, Kenji; Asano, Katsuaki; and Takii, Osamu, 4,658,795, Cl. 123-519.000.

Takikawa, Katsuo: *See*—
Fujimura, Hajime; Hiramatu, Yasuzo; Yabuuchi, Takahiro; Hisaki, Masakatu; Takikawa, Katsuo; Honna, Takaji; Miyake, Hidekazu; and Kajitani, Makoto, 4,666,911, Cl. 514-255.000.

Takikawa, Kei; and Kanemaki, Hirofumi, to Nippon Telegraph and Telephone Corporation; and Sony Corporation. Pattern data processing apparatus. 4,656,468, 4-7-87, Cl. 340-744.000.

Takikawa, Makito, to Alps Electric Co., Ltd. Disk recording and playback apparatus having magnetic head separation device. 4,636,896, 1-13-87, Cl. 360-105.000.

Takimoto, Hideki, to NEC Corporation. Clamping apparatus for a video signal. 4,651,213, 3-17-87, Cl. 358-172.000.

Takimoto, Hiroaki; and Tsuchiya, Ichiro, to Sumitomo Electric Industries, Ltd. Gas reaction apparatus and multi-wall pipe type burner therefor. 4,661,140, 4-28-87, Cl. 65-157.000.

Takimoto, Hiroshi; and Fukui, Takumi, to Yamaha Hatsudoki Kabushiki Kaisha. Lamp mounting structure for small sized vehicle. 4,636,922, 1-13-87, Cl. 362-72.000.

Takimoto, Hiroshi, to Yamaha Hatsudoki Kabushiki Kaisha. Disk brake arrangement for vehicle. 4,667,760, 5-26-87, Cl. 180-215.000.

Takimoto, Hiroshi: *See*—
Mirua, Konoe; Takimoto, Hiroshi; Kaneko, Toshio; Ohta, Tokuya; Kobayashi, Masatsune; and Eida, Tsuyoshi, 4,683,002, Cl. 106-20.000.

Takimoto, Hiroyuki, to Canon Kabushiki Kaisha. Information signal reproducing apparatus having means for discriminating a track pitch and selecting the reproduction mode speed. 4,683,503, 7-28-87, Cl. 360-64.000.

Takimoto, Hiroyuki, to Canon Kabushiki Kaisha. Recording and reproducing apparatus having an automatic tracking control system using multiple pilot signals. 4,686,589, 8-11-87, Cl. 360-77.000.

Takimoto, Hiroyuki: *See*—
Edakubo, Hiroo; Takayama, Nobutoshi; and Takimoto, Hiroyuki, 4,636,882, Cl. 360-77.000.
Kozuki, Susumu; Takimoto, Hiroyuki, Edakubo, Hiroo; and Takayama, Nobutoshi, 4,691,256, Cl. 360-73.000.

Takimoto, Kazuhiro: *See*—
Hiraki, Shunichi; Usuki, Yoshikazu; and Takimoto, Kazuhiro, 4,647,472, Cl. 427-39.000.

Takimoto, Kazutoshi; Matsumi, Takatomo; and Kikuchi, Koji, to Sharp Kabushiki Kaisha. Apparatus for controlling a dewatering process. 4,679,414, 7-14-87, Cl. 68-12.00R.

Takimoto, Masahiro; Takeuchi, Junji; and Yamazaki, Yoshio, to Toyoda Gosei Co., Ltd. Thermoplastic olefin elastomer. 4,713,419, 12-15-87, Cl. 525-211.000.

Takimoto, Masahiro: *See*—
Yamazaki, Yoshio; and Takimoto, Masahiro, 4,654,238, Cl. 428-31.000.

Takimoto, Shingo: *See*—
Sato, Tatsuo; and Takimoto, Shingo, 4,656,489, Cl. 346-76.0PH.

Takimura, Keisuke: *See*—
Sasaki, Kan; Takimura, Keisuke; Katayama, Nobuaki; and Tochiya, Fumitomo, 4,645,029, Cl. 180-249.000.
Sasaki, Kan; Takimura, Keisuke; and Katayama, Nobuaki, 4,697,470, Cl. 74-701.000.

Takino, Shigekatsu: *See*—
Kondo, Hirokazu; and Takino, Shigekatsu, 4,646,650, Cl. 104-172.300.

Takiron Co., Ltd.: *See*—
Miura, Masanobu, 4,713,579, Cl. 313-500.000.

Takishima, Shoji, to Clarion Co., Ltd. Surface acoustic wave device sealing method. 4,699,682, 10-13-87, Cl. 156-292.000.

Takita, Atsushi: *See*—
Yamada, Hiroshi; Iioka, Michihiro; Sugano, Akira; Takita, Atsushi; Nigawara, Seitsu; and Fukai, Masayuki, 4,707,778, Cl. 364-132.000.

Takita, Kentaro: *See*—
Miki, Yasuhiko; and Takita, Kentaro, 4,692,886, Cl. 364-718.000.
Palmquist, Steven R.; Takita, Kentaro; and Hasegawa, Kazumi, 4,646,297, Cl. 371-1.000.

Takita, Tomohisa: *See*—
Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Tanaka, Wataru; Takita, Tomohisa; Nishimura, Yoshio; and Yoshikawa, Hiroshi, 4,716,221, Cl. 536-17.200.

Takiura, Yasuro: *See*—
Fujita, Kenjiro; and Takiura, Yasuro, 4,654,797, Cl. 364-414.000.

Takiyama, Masashi: *See*—
Watanabe, Kenshu; Uchikawa, Tadashi; Takiyama, Masashi; and Kurahashi, Takashi, 4,648,425, Cl. 137-557.000.

Takizawa, Akio; Suga, Mitsuhiro; and Saito, Syozo, to Nippon Antenna Kabushiki Kaisha. Mechanism for extending and contracting antenna. 4,665,406, 5-12-87, Cl. 343-903.000.

Takizawa, Hideaki: *See*—
Yoshikawa, Kazuo; Asano, Toru; Yamaguchi, Hisashi; Takizawa, Hideaki; and Andoh, Shizuo, 4,680,430, Cl. 178-19.000.

Takizawa, Kazushige; Sakaki, Hirokazu; Abe, Yuji; Matsuo, Mamoru; Tajiri, Akira; and Tsuchida, Shin, to Fuji Photo Film Co., Ltd.; Sumitomo Light Metal Industries, Ltd.; and Skyaluminium Co. Ltd. Aluminum alloy support for a lithographic printing plate. 4,686,093, 8-11-87, Cl. 420-548.000.

Takizawa, Kinji; Mizuno, Ichiro; and Sugizaki, Iwao, to Mitutoyo Mfg. Co., Ltd. Height gauge. 4,679,326, 7-14-87, Cl. 33-170.000.

Takizawa, Masaaki: *See*—
Ozawa, Isao; Ito, Noboru; Takizawa, Masaaki; Ohta, Yoshio; and Ijichi, Kiyoteru, 4,635,910, Cl. 267-140.100.

Takizawa, Masahiro: *See*—
Kajimoto, Noribumi; Kawakami, Yoshio; and Takizawa, Masahiro, 4,673,622, Cl. 428-423.100.

Takizawa, Minoru: *See*—
Nakamura, Michiei; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, 4,698,099, Cl. 106-288.00R.
Nakamura, Michiei; Takeuchi, Hitoshi; Takahashi, Tetujiro; Takizawa, Minoru; and Horiguchi, Shojiro, 4,704,165, Cl. 106-308.00M.

Takizawa, Morio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Sliding friction member for lens sliding ring. 4,640,579, 2-3-87, Cl. 350-255.000.

Takizawa, Morio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Sound preventing means in sliding lens barrel and method of manufacture thereof. 4,676,600, 6-30-87, Cl. 350-255.000.

Takizawa, Satoshi, to Nissan Motor Company, Limited. Method and apparatus for engine control. 4,658,787, 4-21-87, Cl. 123-418.000.

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Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Vehicle suspension responsive to vertical acceleration and change in height. 4,685,689, 8-11-87, Cl. 280-707.000.

Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Vehicle suspension apparatus. 4,696,483, 9-29-87, Cl. 280-6.00H.

Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Goto, Masaki, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Rear wheel steering system. 4,709,935, 12-1-87, Cl. 280-91.000.

Takizawa, Shozo: *See*—
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Kumagai, Naotake; and Tatemoto, Minoru, 4,673,193, Cl. 280-707.000.
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,695,074, Cl. 280-707.000.

Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,639,014, Cl. 280-707.000.

Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,640,526, Cl. 280-707.000.

Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Takizawa, Shozo; Kumagai, Naotake; and Tatemoto, Minoru, 4,669,750, Cl. 280-707.000.

Wada, Shunichi; Shimomura, Setsuhiro; Kumagai, Naotake; Takizawa, Shozo; Maruyama, Mitsunori; Tatemoto, Minoru; Takada, Hiroyuki; and Harara, Mitsuhiko, 4,648,622, Cl. 280-707.000.

Takizawa, Sumio: *See*—
Nishikawa, Masumi; Ishikawa, Masanobu; Watanabe, Hiroshi; Kikuchi, Kenichi; and Takizawa, Sumio, 4,669,325, Cl. 74-89.150.

Takizawa, Takashi; and Tanaka, Tsutomu, to Sanyo Electric Co. Ltd.; and Tokyo Sanyo Electric, Low-temperature showcase, 4,648,247, 3-10-87, Cl. 62-256.000.

Takizawa, Takeshi: *See*—
Nakajima, Junichi; Nakayama, Kenji; and Takizawa, Takeshi, 4,685,498, Cl. 144-208.00B.

Takizawa, Tatsuji; Noda, Nobutaka; and Takigawa, Hideaki, to Katsuragawa Denki Kabushiki Kaisha, Fixing devices for electrophotographic apparatus, 4,682,878, 7-28-87, Cl. 355-3.0FU.

Takke, Ralf: *See*—
Ross, Dieter; Bonewitz, Hans-Ulrich; Christiansen, Uwe; Klein, Karl-Friedrich; Muhlich, Albert; Rau, Karlheinz; Ruffing, Wolfgang; Simmat, Fritz; Stemkohl, Anton; and Takke, Ralf, 4,676,814, Cl. 65-3.120.

Takla, Nabil, to Data General Corporation, Bit shifting apparatus, 4,636,976, 1-13-87, Cl. 364-900.000.

Tako S.p.A.: *See*—
Martini, Gino, 4,643,863, Cl. 264-219.000.
Martini, Gino, 4,643,864, Cl. 264-220.000.

Takoshima, Takehiro, to Alps Electric Co., Ltd, Thermal head, 4,713,671, 12-15-87, Cl. 346-76.0PH.

Takoshima, Takehiro: *See*—
Kato, Masakazu; and Takoshima, Takehiro, 4,709,243, Cl. 346-76.0PH.

Takserman, Yuri: *See*—
Goldfeld, Emil; Harush, Shlomo; Takserman, Yuri; and Weiler, Shmuel, 4,705,237, Cl. 244-3.120.

Takubo, Hiroichi: *See*—
Kohno, Kouji; Takubo, Hiroichi; and Ito, Toshinobu, 4,690,111, Cl. 123-192.00B.
Kohno, Kouji; Takubo, Hiroichi; and Ito, Toshinobu, 4,696,267, Cl. 123-192.00B.

Takubo, Masayoshi, to Takubo, Masayoshi; and Takubo, Michihiro, Root canal sealer, 4,657,592, 4-14-87, Cl. 106-35.000.

Takubo, Michihiro: *See*—
Takubo, Masayoshi, 4,657,592, Cl. 106-35.000.

Takubo, Toyokazu; and Fuji, Atsushi, to Idemitsu Petrochemical Co., Ltd, Method of and apparatus for extruding thermoplastic resin, 4,666,64[illegible], 5-19-87, Cl. 264-176.100.

Takubo, Yonehara; Horibe, Yasutaka; and Yamanishi, Nobue, to Matsushita Electric Industrial Co., Ltd, Light shutter array element, 4,697,889, 10-6-87, Cl. 350-392.000.

Takuma Co., Ltd.: *See*—
Kito, Shigehiro; Tamaki, Akira; and Oyama, Kazuo, 4,650,647, Cl. 422-169.000.

Takuma, Hiroshi: *See*—
Tsuji, Yoshiomi; Maruyama, Ichiro; and Takuma, Hiroshi, 4,696,598, Cl. 405-115.000.

Takuma, Yoshiyuki, to Mitsubishi Denki Kabushiki Kaisha, Compressor system and start-up method therefor, 4,685,287, 8-11-87, Cl. 60-39.070.

Takumi, Kenta; and Sakamoto, Hidenori, to NEC Corporation, Broadband network systems, 4,675,866, 6-23-87, Cl. 370-124.000.

Takumi, Shigeji: *See*—
Otani, Tetsurou; Takumi, Shigeji; and Suzuki, Choichi, 4,664,074, Cl. 123-41.310.

Takusagawa, Takashi: *See*—
Iwata, Norio; Nakamura, Masao; and Takusagawa, Takashi, 4,702,293, Cl. 152-531.000.

Tal, Reuven; Chaiat, Dov; and Hirsch, Eitan, to State of Israel, Ministry of Defence, Israel Military Industries, The, Hollow charges, 4,702,171, 10-27-87, Cl. 102-476.000.

Talacko, Radovan, to Ransburg-Gema AG, Spray device for coating articles with powder, 4,659,019, 4-21-87, Cl. 239-692.000.

Talacko, Radovan, to Ransburg-Gema AG, Method and apparatus for electrostatic coating of articles with powdered coating material, 4,706,890, 11-17-87, Cl. 239-692.000.

Talalla, Andrew; and Bullara, Leo A, Stimulation of cauda-equina spinal nerves, 4,633,889, 1-6-87, Cl. 128-784.000.

Talamantez, Rudolph, Apparatus for heating, storing and transferring of heat, 4,660,543, 4-28-87, Cl. 126-400.000.

Talamantez, Rudolph, Sr, Ball-and-target game with tiltable playing surface therefor, 4,693,476, 9-15-87, Cl. 273-110.000.

Talarico, Louis C., II, Dual-compression forefoot compensated footwear, 4,642,911, 2-17-87, Cl. 36-30.00R.

Talas, Eva E., to Pennwalt Corporation, Process for continuously dispensing liquid microbicides into metalworking fluids, 4,693,283, 9-15-87, Cl. 141-1.000.

Talbert Manufacturing, Inc.: *See*—
Holt, Joseph C.; and Losh, Russell L., 4,635,997, Cl. 296-182.000.

Talbot, Douglas C., to CMI, Inc, Breath tester, 4,649,027, 3-10-87, Cl. 422-84.000.

Talbot, Gerald R., to Inmos Limited, Integrated circuit phase locked loop timing apparatus, 4,689,581, 8-25-87, Cl. 331-1.00A.

Talbot, Glenn D.: *See*—
Cabrera, Pedro P.; and Talbot, Glenn D., 4,653,719, Cl. 251-7.000.

Talbot, Jean-Guy; and Gauthier, Andre M., to Bombardier Inc, Snowmobile ski suspension, 4,671,521, 6-9-87, Cl. 280-16.000.

Talbot, Laurel C.; and Reed, Wilbur T., to B. H. Tytewadd Marketing, Incorporated, Surge protection device, 4,649,457, 3-10-87, Cl. 361-127.000.

Talbot, Lionel E., to Alcan International Limited, Electrical power control apparatus, 4,675,588, 6-23-87, Cl. 318-599.000.

Talbot, Robert E.: *See*—
Davis, Keith P.; and Talbot, Robert E., 4,673,509, Cl. 210-699.000.

Talbott, David: *See*—
Millar, Colin A.; Talbott, David; Potter, David J.; and Wood, Thomas D. S., 4,667,862, Cl. 225-2.000.

Talbott, Graham M.: *See*—
McCullough, Robert W.; Peoples, Clarence A.; Sacks, Maurice J.; Adams, Ronald L.; Kapfer, Klaus; and Talbott, Graham M., 4,663,103, Cl. 264-40.400.

Talbott, John W.; Peters, Thomas E.; and Logan, James D., to Morrison-Knudsen Forest Products, Inc, Method of treating materials to improve their conductance for use in the manufacture of directionally aligned materials, 4,664,856, 5-12-87, Cl. 264-24.000.

Talbott, Larry L.: *See*—
Barach, Jeffrey T.; and Talbott, Larry L., 4,707,364, Cl. 426-36.000.

Talbott, Robert D.: *See*—
Puski, Gabor; Hartman, Grant H., Jr.; and Talbott, Robert D., 4,697,004, Cl. 530-378.000.

Talend, Donald R., to Corcom, Inc, Telephone connector with bypass capacitor, 4,695,115, 9-22-87, Cl. 439-76.000.

Talento, Joseph L., to General Electric Company, Vacuum interrupter contact, 4,687,515, 8-18-87, Cl. 75-246.000.

Taleyarkhan, Rusi P., to Westinghouse Electric Corp, BWR fuel assembly with water flow mixing chamber at fuel bundle/water cross entrance, 4,649,021, 3-10-87, Cl. 376-444.000.

Taleyarkhan, Rusi P., to Westinghouse Electric Corp, Boiling water nuclear reactor fuel assembly, 4,678,631, 7-7-87, Cl. 376-444.000.

Taleyarkhan, Rusi P., to Westinghouse Electric Corp, Intermediate flow mixing nonsupport grid for BWR fuel assembly, 4,698,204, 10-6-87, Cl. 376-439.000.

Taleyarkhan, Rusi P., to Westinghouse Electric Corp, BWR fuel assembly bottom nozzle with one-way coolant flow valve, 4,716,011, 12-29-87, Cl. 376-281.000.

Taleyarkhan, Rusi P.: *See*—
Mildrum, Claude M.; and Taleyarkhan, Rusi P., 4,708,845, Cl. 376-435.000.

Taliq Corporation: *See*—
McLaughlin, Charles W.; Fergason, James L.; and Parker, Robert, 4,699,470, Cl. 350-334.000.
Parker, Robert, 4,669,828, Cl. 350-339.00R.
Wiley, Richard, 4,693,560, Cl. 350-335.000.

Talir, Jiri: *See*—
Bischofberger, Walter; Eicholzer, Heinz; and Talir, Jiri, 4,636,599, Cl. 200-144.0AP.
Bischofberger, Walter; Eichholzer, Heinz; Graber, Werner; Talir, Jiri; Hochspach, Edgar; and Luthi, Werner, 4,670,632, Cl. 200-144.0AP.

Tallafus, Ottmar, Cooling auger, 4,697,508, 10-6-87, Cl. 99-517.000.

Tallant, James C., II; and Parker, Robert P., to RCA Corporation, Non-saturating video output amplifier, 4,639,785, 1-27-87, Cl. 358-184.000.

Tallaron, Louis, to Societe pour l'Etude et la Fabrication de Circuits Integres Speciaux E.F.C.I.S, Logic data transfer bus preloading circuit, 4,651,036, 3-17-87, Cl. 307-571.000.

Taller, Robert A.; and Daugherty, Charles, to Becton, Dickinson and Company, Method for bonding polyurethane balloons to multilumen catheters, 4,661,095, 4-28-87, Cl. 604-103.000.

Taller, Robert A.; and McGary, Charles W., Jr., to Deseret Medical, Inc, Process for preparation of polyurethane condoms, 4,684,490, 8-4-87, Cl. 264-296.000.

Talleres de Escoriaza, S.A.: *See*—
Garro, Jose I. P., 4,660,346, Cl. 70-358.000.

Talleu, Patrick: *See*—
Cerdan, Jean-Pierre; Dueymes, Eric; Talleu, Patrick; Carnel, Jean; Palacio, Gerard; and Franzolini, Marc, 4,650,578, Cl. 210-197.000.

Talley, Eric; and Gounder, Raj N., to RCA Corporation, Electromagnetic radiation reflector structure and method for making same, 4,686,150, 8-11-87, Cl. 428-593.000.

Talley, John J., to General Electric Company, Flame retardant polyphenylene oxide thermoplastics, 4,645,787, 2-24-87, Cl. 524-122.000.

Talley, Thomas H.; and Wilson, Thomas E., to Schnadig Corporation, Incliner seat with push button release, 4,668,009, 5-26-87, Cl. 297-85.000.

Tallgrass Technologies, Inc.: *See*—
Brent, George L., 4,694,367, Cl. 360-106.000.

Tallinsky Politekhnichesky Institut: *See*—
Tjumanok, Alexei N.; Tamm, Yaan V.; and Sarandi, Jury L., 4,653,700, Cl. 241-79.100.

Tallis, John R., Jr.; and Volino, Nicholas A., to Facet Enterprises, Inc. Engine starter drive with integral starter relay. 4,695,735, 9-22-87, Cl. 290-38.00R.

Tallman, Clifford S., to United States of America, Energy. Stereoscopic optical viewing system. 4,663,511, 5-5-87, Cl. 219-121.0EC.

Tallman, Gary C. Sign sandblasting method. 4,702,786, 10-27-87, Cl. 156-154.000.

Tallman, Peter H.: *See—*
Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.

Tallman, William R.; and Kaplan, Robert A., to Scott & Fetzer Company, The. Gas fuel burner. 4,701,123, 10-20-87, Cl. 431-171.000.

Tallon, James A.; and Lewis, Richard T., to Union Carbide Corporation. Esters as pitch plasticizers. 4,715,897, 12-29-87, Cl. 106-284.000.

Tallone, Thomas: *See—*
Brunsing, Thomas P.; Fisk, Allan T.; Spector, Joseph; and Tallone, Thomas, 4,671,367, Cl. 175-58.000.

Talmage, John E., Jr.; and Gibson, William A., to Elographics, Inc. Electrographic touch sensor with Z-axis capability. 4,687,885, 8-18-87, Cl. 178-18.000.

Talmage, John E., Jr.: *See—*
Gibson, William A.; and Talmage, John E., Jr., 4,659,873, Cl. 178-18.000.
Gibson, William A.; and Talmage, John E., Jr., 4,661,655, Cl. 178-18.000.

Talmage, Joseph M., to Warner-Lambert Company. Composition for determining peroxidase-like activity of hemoglobin. 4,673,654, 6-16-87, Cl. 436-66.000.

Talmage, Joseph M.; and Oksman, Norman H., to Warner-Lambert Company. Occult blood test monitor. 4,675,160, 6-23-87, Cl. 422-56.000.

Talmor, Shlomo S., to Harris Corporation. Stable current source. 4,680,535, 7-14-87, Cl. 323-312.000.

Talon, Inc.: *See—*
Kedzierski, Stanley G., 4,644,613, Cl. 24-421.000.
MacFee, Norman W., 4,691,370, Cl. 383-61.000.
Samberg, Michael, 4,663,817, Cl. 29-408.000.
Sen Gupta, Sisir K., 4,638,557, Cl. 29-766.000.

Talon Tool Corp.: *See—*
Friggstad, Terrance, 4,664,008, Cl. 83-549.000.

Talonen, Tauno; and Niemi, Riitta, to Tamfelt Oy Ab. Method for the manufacture of a press felt and press felt. 4,698,250, 10-6-87, Cl. 428-58.000.

Talonn, Daniel A., to Sherwood Medical Company. Respiratory device. 4,693,256, 9-15-87, Cl. 128-725.000.

Talpo, Gianpietro: *See—*
Muscaglione, Giuseppe; and Talpo, Gianpietro, 4,716,266, Cl. 200-148.00R.

Talton, Tommy E.: *See—*
Kinsey, Kenneth M.; Talton, Tommy E.; and Lay, Robert L., 4,649,593, Cl. 16-81.000.

Talwar, Anil K.: *See—*
Denick, John, Jr.; Peters, David; Talwar, Anil K.; and Liao, Wei C., 4,711,774, Cl. 424-48.000.
Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,642,231, Cl. 424-15.000.
Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,643,892, Cl. 424-15.000.
Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,643,898, Cl. 424-155.000.
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Peters, David; Denick, John, Jr.; and Talwar, Anil K., 4,650,663, Cl. 424-484.000.

Talwar, Ashok K.; Poole, William E., Jr.; and Steinkolk, Richard B., to Eaton Corporation. Varactor tuning circuit for dielectric resonator stabilized oscillator. 4,683,447, 7-28-87, Cl. 331-177.00V.

Tam, Aloysius T., to Advanced Micro Devices, Inc. Memory with sequential mode. 4,680,738, 7-14-87, Cl. 365-239.000.

Tam Ceramics, Inc.: *See—*
Wallace, Clarence L., 4,687,044, Cl. 164-100.000.

Tam International, Inc.: *See—*
Sanford, Lawrence; Stokley, Charles O.; and Turner, Edwin C., 4,648,448, Cl. 166-191.000.

Tam, Jimmy W.: *See—*
Scherer, William C.; Tam, Jimmy W.; and Luebeck, Duane A., 4,685,621, Cl. 239-288.000.

Tam, Le Dinh C.; Garceau, Roger; and Leblanc, Andre, to Centre de Recherche Industrielle du Quebec. Multiple frequency adaptive noise filter for removing interference signals from a frequency band having a desired signal. 4,673,982, 6-16-87, Cl. 358-167.000.

Tam, Raphael K.: *See—*
Reiffel, Leonard; Jung, Wayne D.; Karlin, Richard A.; and Tam, Raphael K., 4,654,484, Cl. 379-53.000.

Tam, Tim: *See—*
Krantz, Alexander; Spencer, Robin; and Tam, Tim, 4,657,893, Cl. 514-18.000.
Krantz, Alexander; Spencer, Robin; Tam, Tim; and Liak, Teng J., 4,665,070, Cl. 514-232.000.

Tam, Yan S., to Rockwell International Corporation. Laser mirror positioning apparatus. 4,664,487, 5-12-87, Cl. 350-486.000.

Tama Chemical Co., Ltd.: *See—*
Shimizu, Shumpei; Cho, Toshitsura; and Yagi, Osamu, 4,634,509, Cl. 204-182.400.

Tamada, Atsushi: *See—*
Kikkawa, Atsushi; Kondo, Noriyuki; and Tamada, Atsushi, 4,659,936, Cl. 250-560.000.

Tamada, Hitoshi; Kaneko, Masahiko; Okamoto, Tsutomu; and Yamada, Toshiro, to Sony Corporation. Thermomagnetic recording system. 4,642,795, 2-10-87, Cl. 365-10.000.

Tamada, Kazukiyo, to Fuji Photo Film Co., Ltd. Device for loading or unloading magnetic disc pack. 4,709,282, 11-24-87, Cl. 360-97.000.

Tamada, Masuo, to Kabushiki Kaisha Toshiba. Mail sorting apparatus. 4,641,753, 2-10-87, Cl. 209-546.000.

Tamada, Shinichi: *See—*
Ohkumi, Shimichiro; and Tamada, Shinichi, 4,706,724, Cl. 152-454.000.

Tamada, Teruo: *See—*
Nakadai, Shigeru; and Tamada, Teruo, 4,642,596, Cl. 336-98.000.

Tamade, Yoshinori: *See—*
Uno, Kunihiko; Tamade, Yoshinori; Horino, Seiya; and Kodera, Tamotsu, 4,712,741, Cl. 241-16.000.

Tamag Basel AG: *See—*
Egri, Laszlo, 4,646,760, Cl. 131-296.000.

Tamagaki, Hiroshi: *See—*
Yoshikawa, Kiyoshi; Toku, Hisayuki; Ueda, Makoto; and Tamagaki, Hiroshi, 4,703,222, Cl. 313-362.100.

Tamagawa, Hiroshi: *See—*
Oka, Tsumoru; and Tamagawa, Hiroshi, 4,658,236, Cl. 340-56.000.

Tamagawa Machinery Co., Ltd.: *See—*
Yokoyama, Tatsuichi; and Takahashi, Kazutami, 4,662,234, Cl. 74-393.000.

Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, to Fuji Photo Film Co., Ltd. Process for making a photographic support. 4,659,430, 4-21-87, Cl. 162-135.000.

Tamagawa, Shigehisa; Fuchizawa, Tetsuro; and Abe, Hisamasa, to Fuji Photo Film Co., Ltd. Photographic printing paper support. 4,678,742, 7-7-87, Cl. 430-523.000.

Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, to Fuji Photo Film Co., Ltd. Heat-sensitive recording paper. 4,682,191, 7-21-87, Cl. 503-200.000.

Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, to Fuji Photo Film Co., Ltd. Photographic polyolefin coated paper. 4,705,746, 11-10-87, Cl. 430-538.000.

Tamagawa, Shigehisa: *See—*
Koike, Kazuyuki; Tamagawa, Shigehisa; and Fuchizawa, Tetsuro, 4,686,546, Cl. 503-200.000.

Tamagawa, Tohoru: *See—*
Kaneko, Eiji; Yanabu, Satoru; and Tamagawa, Tohoru, 4,695,467, Cl. 200-144.00B.

Tamagawa, Tsutomu: *See—*
Niret, Hironori; and Tamagawa, Tsutomu, 4,649,716, Cl. 62-280.000.

Tamagne, Henry J., to Ford Motor Company. Method for positioning two sensor devices. 4,635,353, 1-13-87, Cl. 29-602.00R.

Tamagne, Henry J., to Ford Motor Company. Apparatus for positioning two sensor devices. 4,677,946, 7-7-87, Cl. 123-146.50A.

Tamai, Motomi: *See—*
Onuma, Eiichi; Kawamura, Youji; Obana, Hiroshi; Aizawa, Takemi; Tamai, Motomi; Inagaki, Tsugiya; and Tokita, Minoru, 4,691,869, Cl. 241-34.000.

Tamai, Shigeru. Eraser of characters etc. 4,671,687, 6-9-87, Cl. 400-695.000.

Tamai, Shigeru: *See—*
Takahashi, Yasuyuki; Aizawa, Shigeru; Tamai, Shigeru; Yoshida, Toshiro; and Takahashi, Takeshi, 4,714,566, Cl. 252-314.000.

Tamai, Shoji: *See—*
Ibi, Akira; Sato, Takushi; Yamaguchi, Akihiro; Takahashi, Shigeru; Shishido, Shigeyuki; Tamai, Shoji; and Nakajima, Hisa, 4,687,836, Cl. 528-353.000.

Tamai, Yasuo: *See—*
Ogawa, Hiroshi; Saito, Shinji; and Tamai, Yasuo, 4,634,632, Cl. 428-425.900.
Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, 4,649,081, Cl. 428-447.000.
Ogawa, Hiroshi; and Tamai, Yasuo, 4,664,981, Cl. 428-425.900.
Ogawa, Hiroshi; Mizuno, Chiaki; Tamai, Yasuo; and Kamiyama, Koozi, 4,680,225, Cl. 428-323.000.
Ogawa, Hiroshi; Saito, Shinji; Mizuno, Chiaki; and Tamai, Yasuo, 4,687,710, Cl. 428-447.000.
Ono, Toshio; Tamai, Yasuo; Mizuno, Chiaki; Ogawa, Hiroshi; and Saito, Shinji, 4,710,421, Cl. 428-213.000.
Shirahata, Ryuji; and Tamai, Yasuo, 4,690,857, Cl. 428-216.000.

Tamai, Yoshin; Yamamoto, Fumito; Shiono, Manzo; Kanehira, Koichi; Ozasa, Hiroshi; and Nomoto, Kaoru, to Kuraray Co., Ltd. Ethylene oxide adducts, method of producing same and cosmetics and ointments containing same. 4,656,195, 4-7-87, Cl. 514-772.000.

Tamaki, Akihiro: *See—*
Kajimoto, Nobuyuki; Tamaki, Akihiro; and Nagata, Teruyuki, 4,680,369, Cl. 528-76.000.
Kajimoto, Nobuyuki; Tamaki, Akihiro; and Nagata, Teruyuki, 4,689,387, Cl. 528-76.000.

Tamaki, Akira: *See*—
Kito, Shigehiro; Tamaki, Akira; and Oyama, Kazuo, 4,650,647, Cl. 422-169.000.

Tamaki, Hiroaki; and Nakamura, Joji, to Kabushiki Kaisha Komatsu Seisakusho. Method of driving hollow piles into the ground. 4,637,758, 1-20-87, Cl. 405-248.000.

Tamaki, Hiroshi; Kondo, Fumitomo; and Sugai, Hiroo, to Tokyo Kogaku Kikai Kabushiki Kaisha. Inclination measuring apparatus having a prism with associated liquid container. 4,666,299, 5-19-87, Cl. 356-138.000.

Tamaki, Hiroyuki: *See*—
Ogawa, Masashi; and Tamaki, Hiroyuki, 4,699,705, Cl. 204-299.00R.

Tamaki, Isao, to Sony Corporation. Audio-visual teaching apparatus. 4,634,386, 1-6-87, Cl. 434-323.000.

Tamaki, Isao, to Sony Corporation. Control apparatus for controlling. 4,644,425, 2-17-87, Cl. 360-69.000.

Tamaki, Kentaro: *See*—
Yamauchi, Takayoshi; Hattori, Kaneaki; Ikeda, Shunichi; Nakao, Kenji; and Tamaki, Kentaro, 4,649,213, Cl. 560-56.000.
Yamauchi, Takayoshi; Hattori, Kaneaki; Ikeda, Shunichi; and Tamaki, Kentaro, 4,716,241, Cl. 558-44.000.

Tamaki, Nobuaki; Sakuma, Shinzo; Fukai, Toshimasa; and Takihana, Masatoshi, to Kabushiki Kaisha Meidensha. Vacuum interrupter. 4,707,577, 11-17-87, Cl. 200-144.00B.

Tamaki, Nobuaki: *See*—
Sakuma, Shinzo; Tamaki, Nobuaki; and Kawakami, Hideo, 4,661,666, Cl. 200-144.00B.

Tamaki, Sigeo, to Hitachi, Ltd. Idling return device for internal combustion engines. 4,660,518, 4-28-87, Cl. 123-328.000.

Tamaki, Sigeo: *See*—
Ishizawa, Isamu; and Tamaki, Sigeo, 4,712,531, Cl. 123-556.000.

Tamaki, Yasushi: *See*—
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,664,963, Cl. 428-142.000.
Sakai, Yusaku; Kitamoto, Yoshito; Ohtaki, Shinji; Tamaki, Yasushi; and Nagai, Hikaru, 4,675,075, Cl. 156-650.000.

Tamaki, Yoichi; Kure, Tokuo; Sato, Akira; and Higuchi, Hisayuki, to Hitachi, Ltd. Tapered groove IC isolation. 4,635,090, 1-6-87, Cl. 357-50.000.

Tamaki, Yoshihiro: *See*—
Hashimoto, Hitoshi; Tamaki, Yoshihiro; Mikami, Kazufumi; and Shimogai, Kiyoshi, 4,701,081, Cl. 408-1.00R.

Tamakoshi, Koichiro: *See*—
Nogi, Munehiro; Ohashi, Ryutaro; Miyazaki, Koichiro; Tanaka, Takashi; Tamakoshi, Koichiro; Tamano, Yoshiziro; Wakita, Syotaro; and Suzuki, Toshimitsu, 4,641,671, Cl. 134-57.00D.

Tamalis, William G.: *See*—
Deets, Gary L.; and Tamalis, William G., 4,684,708, Cl. 527-312.000.

Tamamaki, Masahiro: *See*—
Iwata, Akira; Tamamaki, Masahiro; Tanaka, Genji; Taniguchi, Masaaki; and Tsuda, Kouji, 4,671,917, Cl. 264-332.000.

Tamamizu, Teruyasu; Sato, Kichihei; Tanaka, Takashi; and Sato, Shunkichi, to Toshiba Ceramics Co., Ltd. Sintered silicon carbide porous body impregnated with metallic silicon. 4,710,428, 12-1-87, Cl. 428-408.000.

Tamamori, Hideo; and Tsunazawa, Mitsugu, to Nippon Air Brake Co., Ltd. Self-lapping type control valve device. 4,655,510, 4-7-87, Cl. 303-40.000.

Tamamori, Hideo; and Ikeda, Mitsuhiro, to Nippon Air Brake Co., Ltd. Equalizer discharge valve for a railroad car air brake system. 4,678,241, 7-7-87, Cl. 303-33.000.

Tamamura, Hideo, to Canon Kabushiki Kaisha. Underwater photographable camera. 4,634,253, 1-6-87, Cl. 354-403.000.

Tamamura, Hideo, to Canon Kabushiki Kaisha. Camera. 4,666,275, 5-19-87, Cl. 354-126.000.

Tamamura, Hideo; and Maeno, Hiroshi, to Canon Kabushiki Kaisha. Buckle for a water-proof camera. 4,668,061, 5-26-87, Cl. 354-64.000.

Tamamura, Hideo, to Canon Kabushiki Kaisha. Watertight camera. 4,697,897, 10-6-87, Cl. 354-64.000.

Tamamura, Hideo; and Maeno, Hiroshi, to Canon Kabushiki Kaisha. Water-proof window structure of water-proof camera. 4,714,333, 12-22-87, Cl. 354-64.000.

Tamamura, Hideo: *See*—
Maeno, Hiroshi; Yoshida, Michio; and Tamamura, Hideo, 4,666,274, Cl. 354-64.000.
Nagata, Toru; Aoshima, Chikara; Maeno, Hiroshi; and Tamamura, Hideo, 4,643,549, Cl. 354-64.000.

Tamamura, Junichi: *See*—
Aoki, Shigeo; Tamamura, Junichi; and Ukai, Yasuhiro, 4,644,338, Cl. 340-719.000.
Aoki, Shigeo; Tamamura, Junichi; and Ukai, Yasuhiro, 4,654,117, Cl. 156-659.100.

Tamamura, Takeo: *See*—
Minemura, Tetsuroh; Ishihara, Joo; Nagai, Masaichi; and Tamamura, Takeo, 4,668,591, Cl. 428-605.000.

Tamamura, Tetsuo: *See*—
Yamano, Kenji; and Tamamura, Tetsuo, 4,635,491, Cl. 74-89.150.

Tamamura, Toshiaki: *See*—
Tanaka, Akinobu; Morita, Masao; Imamura, Saburo; Tamamura, Toshiaki; and Kogure, Osamu, 4,702,990, Cl. 430-197.000.

Tamamushi, Masahiro: *See*—
Asakuno, Hiroyoshi; Mori, Kinya; Suzuki, Kiyoaki; Nishida, Mamoru; Iwai, Kenji; Tamamushi, Masahiro; and Kawasaki, Teruo, 4,638,030, Cl. 524-536.000.

Tamamushi, Takashige: *See*—
Nishizawa, Jun-ichi; Tamamushi, Takashige; and Motoya, Kanru, 4,651,180, Cl. 357-22.000.
Nishizawa, Junichi; and Tamamushi, Takashige, 4,651,015, Cl. 250-578.000.
Nishizawa, Junichi; Suzuki, Sobei; and Tamamushi, Takashige, 4,684,966, Cl. 357-22.000.
Yusa, Atsushi; Nishizawa, Jun-ichi; Suzuki, Sohbe; and Tamamushi, Takashige, 4,686,555, Cl. 357-30.000.

Tamano, Michio; and Kawasaki, Yoshiaki, to Fujitsu Limited. Connector pin inserter. 4,672,735, 6-16-87, Cl. 29-564.600.

Tamano, Yoshiziro: *See*—
Nogi, Munehiro; Ohashi, Ryutaro; Miyazaki, Koichiro; Tanaka, Takashi; Tamakoshi, Koichiro; Tamano, Yoshiziro; Wakita, Syotaro; and Suzuki, Toshimitsu, 4,641,671, Cl. 134-57.00D.

Tamano, Yutaka: *See*—
Arai, Shoji; Tamano, Yutaka; and Hasegawa, Masazumi, 4,638,016, Cl. 521-129.000.

Tamao, Yoshikuni: *See*—
Okamoto, Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni; Tonomura, Shinji; and Ohkubo, Kazuo, 4,670,420, Cl. 514-20.000.

Tamaoki, Hidetsune, to Sankyo Company Limited. Preparation of peptides with C-terminal proline amide. 4,709,014, 11-24-87, Cl. 530-333.000.

Tamaoki, Naohiro: *See*—
Sugitani, Yuji; and Tamaoki, Naohiro, 4,639,573, Cl. 219-124.220.
Sugitani, Yuji; and Tamaoki, Naohiro, 4,670,642, Cl. 219-125.120.

Tamarack Scientific Co., Inc.: *See*—
Sheets, Ronald E., 4,649,261, Cl. 219-390.000.
Sheets, Ronald E., 4,698,486, Cl. 250-492.200.

Tamari, Makoto: *See*—
Sorimachi, Kanehiro; and Tamari, Makoto, 4,677,778, Cl. 40-476.000.

Tamari, Masumi, to Kabushiki Kaisha Toshiba. Robot control system. 4,682,089, 7-21-87, Cl. 318-568.000.

Tamari, Nobuyuki: *See*—
Ebata, Yoshihiro; Hayami, Ryozo; Tamari, Nobuyuki; Tobana, Yasuo; and Kinoshita, Makoto, 4,707,416, Cl. 428-627.000.

Tamari, Vladimir F. Mechanical perspective drafting device. 4,672,749, 6-16-87, Cl. 33-18.300.

Tamari, Yehuda. Flow regulating device for peristaltic pumps. 4,650,471, 3-17-87, Cl. 604-153.000.

Tamaru, Kiichiro, to Kabushiki Kaisha Toshiba. Fault-compensating digital information transfer apparatus. 4,707,833, 11-17-87, Cl. 371-15.000.

Tamaru, Shigemi: *See*—
Eguchi, Kiyoshi; Ishikawa, Takayoshi; Tamaru, Shigemi; Genba, Yasushi; and Sera, Tsutomu, 4,655,538, Cl. 339-255.00P.

Tamaru, Shusaku: *See*—
Ikeyama, Norio; Yoshioka, Noriaki; Tamaru, Shusaku; and Ichinose, Hisashi, 4,707,261, Cl. 210-433.200.

Tamaru, Sinji: *See*—
Yamashita, Hiroshi; Fujii, Kanenaga; Hayakawa, Junji; Komiyama, Toru; and Tamaru, Sinji, 4,673,243, Cl. 350-96.150.

Tamaru, Takuya; and Ogusu, Mikio, to Nippon Gakki Seizo Kabushiki Kaisha. Disc case. 4,694,448, 9-15-87, Cl. 369-291.000.

Tamaru, Takuya: *See*—
Kamoshita, Yasuhiko; Tamaru, Takuya; Ogusu, Mikio; and Urata, Kazuo, 4,679,182, Cl. 369-77.200.
Ogusu, Mikio; Urata, Kazuo; Tamaru, Takuya; and Kamoshita, Yasuhiko, 4,646,285, Cl. 369-291.000.

Tamary, Ernest J., to Eastman Kodak Company. Fuser temperature control. 4,684,784, 8-4-87, Cl. 219-216.000.

Tamas, Attila J., to Clark Equipment Company. Battery mounting device. 4,682,751, 7-28-87, Cl. 248-503.000.

Tamasaki, Hidetoshi: *See*—
Uno, Nobuyoshi; Isa, Takayoshi; Kurata, Eijiro; and Tamasaki, Hidetoshi, 4,659,267, Cl. 411-5.000.

Tamasi, Piroska: *See*—
Madi-Szabo, Laszlo; Morvai, Margit; Horvath nee Feher, Eva; Jansco, Sandor; Tamasi, Piroska; Kovacs, Istvan; Kiss nee Loss, Ilona Maria; Bacsa, Gyorgy; Kubala nee Papp, Maria; and Bene nee Horvath, Magdolna, 4,705,779, Cl. 514-27.000.

Tamata, Shin: *See*—
Horiuchi, Susumu; and Tamata, Shin, 4,710,318, Cl. 252-628.000.
Matsuda, Masami; Aoyama, Yoshiyuki; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; Tamata, Shin; and Horiuchi, Susumu, 4,654,172, Cl. 252-629.000.
Mori, Kazuhide; Tamata, Shin; and Kikuchi, Makoto, 4,671,897, Cl. 252-628.000.
Uetake, Naohito; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; and Tamata, Shin, 4,648,990, Cl. 252-628.000.

Tamatani, Yasuyuki, to Tsudakoma Corporation. Improper weft removing device for shuttleless looms. 4,688,606, 8-25-87, Cl. 139-116.000.

Tamatani, Yasuyuki: *See*—
Tsuji, Kanji; Tamatani, Yasuyuki; and Senoo, Takashi, 4,646,791, Cl. 139-435.000.

Tamatoshi Industries Limited: *See*—
Itagaki, Takafumi, 4,684,286, Cl. 403-407.100.

Tamayama, Hiroshi: *See*—
Kondo, Ryuji; Murayama, Jin; Shizukuishi, Makoto; Tamayama, Hiroshi; and Yano, Takashi, 4,668,990, Cl. 358-213.230.
Murayama, Jin; Kondo, Ryuji; Tamayama, Hiroshi; Yano, Takashi, and Shizukuishi, Makoto, 4,686,573, Cl. 358-213.220.

Tamayama, Yasuko: *See*—
Rokugawa, Kyuji; and Tamayama, Yasuko, 4,714,672, Cl. 435-7.000.

Tamazawa, Tsuyoshi: *See*—
Hayashi, Yoshimasa; and Tamazawa, Tsuyoshi, 4,649,869, Cl. 123-41.210.

Tamba, Shinichi; Miyake, Hitomi; and Fukui, Noboru, to Kawasaki Jukogyo Kabushiki Kaisha. Overhead-valve engine. 4,662,322, 5-5-87, Cl. 123-41.860.

Tamba, Shinichi; Miyake, Hitomi; Fukui, Noboru; and Miguchi, Akio, to Kawasaki Jukogyo Kabushiki Kaisha. Liquid-cooled engine of the vertical shaft type. 4,681,067, 7-21-87, Cl. 123-41.100.

Tamba, Shinichi; and Ueki, Noriyuki, to Kawasaki Jukogyo Kabushiki Kaisha. V-type internal combustion engine. 4,697,557, 10-6-87, Cl. 123-319.000.

Tamba, Shinichi; Fukui, Noboru; and Miguchi, Akio, to Kawasaki Jukogyo Kabushiki Kaisha. Compression release device for engine. 4,703,723, 11-3-87, Cl. 123-182.000.

Tamba, Shinichi: *See*—
Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, 4,658,767, Cl. 123-52.0MV.
Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, 4,682,573, Cl. 123-90.200.
Fujikawa, Tetsuzo; Hirata, Makizo; and Tamba, Shinichi, 4,683,847, Cl. 123-90.200.
Fujikawa, Tetsuzo; Hirata, Makizo; Tamba, Shinichi; and Fukui, Noboru, 4,697,555, Cl. 123-90.230.

Tamborski, Christ; and Clark, Leland C., Jr., to Adamantech, Inc.; and Children's Hospital Research Foundation. Use of perfluorobromoalkyl ethers as X-ray contrast agents. 4,640,833, 2-3-87, Cl. 424-5.000.

Tamburello, Mario: *See*—
Spodati, Fabrizio; and Tamburello, Mario, 4,709,979, Cl. 350-96.200.

Tamburrino, Kenneth D.: *See*—
Polick, Raymond L.; Tamburrino, Kenneth D.; and Becker, Edmund H., 4,714,103, Cl. 164-486.000.

Tamehiro, Taizo: *See*—
Hagiwara, Takeshi; Matsuo, Masataka; Tamehiro, Tanezoh; Tamehiro, Taizo; and Murakami, Kakuichi, 4,711,916, Cl. 523-223.000.

Tamehiro, Tanezoh: *See*—
Hagiwara, Takeshi; Matsuo, Masataka; Tamehiro, Tanezoh; Tamehiro, Taizo; and Murakami, Kakuichi, 4,711,916, Cl. 523-223.000.

Tamemori, Hiroyuki; Hattori, Akihiko; and Yoshiyagawa, Mitsugi, to Nippon Sheet Glass Co., Ltd. Process for producing silica in fine powder form. 4,678,652, 7-7-87, Cl. 423-339.000.

Tameo, Robert P., to General Electric Company. Actuating lever for variable stator vanes. 4,652,208, 3-24-87, Cl. 415-162.000.

Tameo, Robert P.: *See*—
Klassen, David D.; Moyer, Roy E.; Lastrina, Frank A.; and Tameo, Robert P., 4,685,942, Cl. 55-306.000.

Tamet Corporation: *See*—
Barton, James W.; and Allen, Hubert D., 4,678,042, Cl. 172-15.000.

Tamer, Gregory G.; and Hollinden, David E., to RCA Corporation. Television sound signal processor. 4,639,786, 1-27-87, Cl. 358-197.000.

Tamer, Gregory G.: *See*—
Lagoni, William A.; Tamer, Gregory G.; Muterspaugh, Max W.; and Rindal, Abraham E., 4,660,088, Cl. 358-198.000.

Tamerlani, Giancarlo: *See*—
Cannata, Vincenzo; and Tamerlani, Giancarlo, 4,661,628, Cl. 562-401.000.

Tames, Joseph: *See*—
Cook, Barry; Richardson, Norman; and Tames, Joseph, 4,689,200, Cl. 422-15.000.

Tamez, Carlos; and Castaneda, Miguel P. Locking load bar carrier and method. 4,662,805, 5-5-87, Cl. 410-33.000.

Tamfelt Oy AB: *See*—
Cedercreutz, Axel; and Salminen, Ari, 4,681,287, Cl. 245-6.000.
Juutilainen, Holger, 4,692,059, Cl. 405-63.000.
Salminen, Ari, 4,695,015, Cl. 245-6.000.
Talonen, Tauno; and Niemi, Riitta, 4,698,250, Cl. 428-58.000.

Tamhankar, Satish; and Weltmer, William R., to BOC Group, Inc., The. One-step process for purifying an inert gas. 4,713,224, 12-15-87, Cl. 423-219.000.

Tami, Kazuya, to Tokyo Juki Industrial Co., Ltd. Sewing machine apparatus with improved shaft speed measuring and indicating means. 4,693,197, 9-15-87, Cl. 112-277.000.

Tami, Kazuya: *See*—
Hiramatsu, Tooru; Tami, Kazuya; and Osawa, Kozo, 4,648,335, Cl. 112-114.000.

Tamio, Nagai: *See*—
Sakuichi, Sakakibara; Yoshiaki, Tokuda; Tamio, Nagai; Yorinobu, Takino; and Tomiro, Arai, 4,685,810, Cl. 366-150.000.

Tamir, Hadassah; Katpiak, Stephen E.; and Wilchek, Meir, to Research Foundation for Mental Hygiene, Inc.; and Yeda Research and Development Co., Ltd. N-acylated 5-hydroxytryptophan amide derivatives. 4,658,038, 4-14-87, Cl. 548-495.000.

Tamir, Mosheh. Steering wheel locking device for road vehicles. 4,699,228, 10-13-87, Cl. 180-287.000.

Tamiya, Yoichiro: *See*—
Morita, Koyo; Nomura, Keizo; Nishizuka, Hiroshi; Hoshi, Tai; Tamiya, Yoichiro; and Asakawa, Terushige, 4,701,608, Cl. 250-205.000.

Tamkin, Michael S.: *See*—
Beaumont, Gregory J.; Duval, Casimir J.; Kula, Frank N.; and Tamkin, Michael S., 4,646,159, Cl. 358-254.000.

Tamm, Hans-Friedrich: *See*—
Dohler, Werner; Merz, Ludwig; Frohnert, Heinz; Uckermann, Bernd; Graeser, Ulrich; Jankowski, Alfons; Wolowski, Eckard; Tamm, Hans-Friedrich; and Wilczok, Norbert, 4,639,310, Cl. 208-412.000.

Tamm, Horst: *See*—
Golker, Walter; Tamm, Horst; and Wanka, Eberhard, 4,675,867, Cl. 324-247.000.

Tamm, Ulf S. Apparatus for measuring pulse rate, vital capacity and pulmonary peak flow. 4,679,566, 7-14-87, Cl. 128-671.000.

Tamm, Yaan V.: *See*—
Tjumanok, Alexei N.; Tamm, Yaan V.; and Sarandi, Jury L., 4,653,700, Cl. 241-79.100.
Tjumanok, Alexei N.; and Tamm, Yaan V., 4,659,025, Cl. 241-187.000.

Tammerijn, Franciscus M.; and Van Der Woord, Hugo, to U.S. Philips Corporation. Splash-proof, dust-proof vented luminaire. 4,658,339, 4-14-87, Cl. 362-294.000.

Tamminen, Pentti, to LTH Associates. Process and apparatus for separating metals from solutions. 4,715,934, 12-29-87, Cl. 204-10.000.

Tamminen, Pentti J., to LTH Associates. Electrochemical generation apparatus and method. 4,684,585, 8-4-87, Cl. 429-69.000.

Tammisalo, Erkki; Kanerva, Heikki; Aarnio, Jaakko; Wederhorn, Markku; and Laner, Kai, to Orion-yhtyma Oy. Apparatus for X-ray photography of the area of the dentition and of the jaws. 4,646,335, 2-24-87, Cl. 378-38.000.

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Tamoto, Koji: *See*—
Ichijima, Seiji; Ono, Mitsunori; Itoh, Isamu; Mibayashi, Ken; Tamoto, Koji; and Nakamura, Yoshisada, 4,711,837, Cl. 430-548.000.
Ogawa, Tadashi; Arakawa, Jun; Nagaoka, Satoshi; Ohashi, Yuichi; and Tamoto, Koji, 4,652,515, Cl. 430-505.000.
Toyama, Tadao; Kobayashi, Kesanao; Koike, Mitsuru; and Tamoto, Koji, 4,687,727, Cl. 430-175.000.

TAMPOflex GmbH: *See*—
Berberich, Bernd, 4,683,821, Cl. 101-170.000.

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Hoffman, Dorothy M.; Tams, Frederick J., III; and McGinn, Joseph T., 4,687,537, Cl. 156-612.000.

Tamura, Akihiko: *See*—
Shoji, Hisashi; Haneda, Satoshi; Hiratsuka, Seisi-furo; Fuma, Hiroshi; Soma, Shinobu; Itaya, Masahiko; Tamura, Akihiko; and Hayakawa, Kazuhi, 4,669,864, Cl. 355-15.000.

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Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yoshi; Saito, Kouichi; and Tamura, Akira, 4,672,253, Cl. 310-269.000.

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Kai, Osamu; Oyamada, Takashi; and Iwabuchi, Shin, 4,660,705, Cl. 194-318.000.
Kawade, Hideji; Takahashi, Hideaki; Sato, Yoshiyuki; and Urayama, Yuji, 4,640,990, Cl. 379-77.000.
Takeda, Yoshiaki; Kinoshita, Toshiharu; and Kai, Osamu, 4,644,109, Cl. 379-27.000.

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Uedaira, Satoru; Yamanoi, Hiroshi; Yamaguchi, Takashi; Suzuki, Masayuki; and Tamura, Hidemasa, 4,677,083, Cl. 423-598.000.
Yamaguchi, Takashi; Nagasawa, Naomi; and Tamura, Hidemasa, 4,639,400, Cl. 428-694.000.
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Kurihara, Haruki; Tamura, Hideo; Suzuki, Kazuo; and Matsumoto, Kenji, 4,663,762, Cl. 372-45.000.

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Kasamani, Mitsuru; and Tamura, Hideyuki, 4,706,632, Cl. 123-492.000.
Tamura, Hifumi; Yamamoto, Shigehiko; Shichi, Hiroyasu; and Ishitani, Toru, to Hitachi, Ltd. Ion beam apparatus. 4,687,930, 8-18-87, Cl. 250-309.000.
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Tamura, Hifumi: *See*—
Ishitani, Tohru; Tamura, Hifumi; and Umemura, Kaoru, 4,697,086, Cl. 250-492.200.
Ishitani, Tohru; Todokoro, Hideo; Kawanami, Yoshimi; and Tamura, Hifumi, 4,710,632, Cl. 250-396.00R.
Umemura, Kaoru; Ishitani, Tohru; and Tamura, Hifumi, 4,680,507, Cl. 315-111.810.
Tamura, Hiroshi; Nishibori, Kazuyoshi; Yamauchi, Yasutaka; and Kato, Katsushi, to Nippondenso Co., Ltd. Apparatus for injecting fuel into internal combustion engine. 4,683,859, 8-4-87, Cl. 123-491.000.
Tamura, Hiroshi; and Nakate, Yutaka, to Kabushiki Kaisha Toshiba. Security monitoring system. 4,694,282, 9-15-87, Cl. 340-539.000.
Tamura, Hiroshi: *See*—
Higashi, Akio; Shimada, Haruji; Kawajiri, Kazuhiro; Ono, Yoshihiro; Saitou, Mitsuo; Tamura, Hiroshi; and Ikeda, Mitsuru, 4,694,317, Cl. 357-30.000.
Kawajiri, Kazuhiro; Tamura, Hiroshi; Shimada, Haruji; Saito, Mitsuo; and Mizobuchi, Yuzo, 4,714,950, Cl. 357-30.000.
Wakino, Kikuo; Tamura, Hiroshi; and Ishikawa, Youhei, 4,692,727, Cl. 333-219.000.
Tamura, Hisao; and Kawakami, Takuji, to Ikeda Bussan Co, Ltd., and Ikeda Kinzokukougyo Co, Ltd. Position adjustable see-through headrest. 4,674,792, 6-23-87, Cl. 297-408.000.
Tamura, Hisashi; Hirata, Terutaka; Odohira, Tetsu; and Ogawa, Tadahiro, to Yokogawa Hokushin Electric Corporation. Capacitive type converter device. 4,644,798, 2-24-87, Cl. 73-708.000.
Tamura, Kaoru; Yasuhiro, Kawai; and Utsumi, Isao, to Fuji Photo Film Co., Ltd. Selective sheet feeder. 4,678,180, 7-7-87, Cl. 271-296.000.
Tamura, Kaoru; and Torii, Shunpeita, to Fuji Photo Film Co., Ltd. Cassette for stimulable phosphor sheet. 4,681,227, 7-21-87, Cl. 206-455.000.
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Machara, Yasunori; Fujiwara, Sigemi; Koyama, Katsuhide; Tamura, Kaoru; Kawai, Yasuhiro; and Watanabe, Kazuya, 4,697,902, Cl. 354-281.000.
Matsuda, Terumi; and Tamura, Kaoru, 4,684,592, Cl. 430-6.000.
Ohgoda, Makoto; and Tamura, Kaoru, 4,640,507, Cl. 271-245.000.
Ohgoda, Makoto; Tamura, Kaoru; and Kawai, Yasuhiro, 4,694,163, Cl. 250-234.000.
Ohgoda, Makoto; and Tamura, Kaoru, 4,704,529, Cl. 250-327.200.
Ohgoda, Makoto; and Tamura, Kaoru, 4,712,009, Cl. 250-327.200.
Tsutsui, Yoshio; Nakamura, Kiyoshi; Kimura, Akira; Imai, Hayato; Tamura, Kaoru; and Miura, Shozuchi, 4,700,283, Cl. 363-68.000.
Yamamoto, Takaaki; and Tamura, Kaoru, 4,703,537, Cl. 15-102.000.
Tamura, Katsuhide, to Canon Kabushiki Kaisha. Electro-optic display device and a method of producing the same. 4,647,402, 3-3-87, Cl. 252-511.000.
Tamura, Katsushige: *See*—
Yamamoto, Shigehiro; Hashimoto, Terukuni; Kobayashi, Mitsuo; Iwaki, Tsugishige; Tamura, Katsushige; and Saijo, Hideo, 4,702,872, Cl. 264-114.000.
Tamura, Kazuhisa; Watanabe, Hideo; and Shimiza, Akihiro, to Iseki & Co. Ltd. Handle post mounting device for tractor. 4,685,529, 8-11-87, Cl. 180-89.120.
Tamura, Kazuyuki: *See*—
Masuda, Sumio; Iiyama, Hiroshi; and Tamura, Kazuyuki, 4,692,613, Cl. 250-231.05E.
Tamura, Kenichi; Nishimura, Yuji; and Kawaharazaki, Takashi, to Kabushiki Kaisha Tokai-Rika-Denki-Seisakusho. Automatic seatbelt apparatus. 4,681,347, 7-21-87, Cl. 280-804.000.
Tamura, Kenichi, to Kabushiki Kaisha Tokai-rika-denki-seisakusho. Apparatus for adjusting position of seatbelt webbing at which it is retained by vehicle body. 4,706,993, 11-17-87, Cl. 280-808.000.
Tamura, Keiichi: *See*—
Izuchi, Shingo; Tamura, Keiichi; and Mori, Shinji, 4,667,894, Cl. 242-107.40A.
Tamura, Keiji: *See*—
Ebato, Kazuo; Osumi, Yasuaki; Tamura, Keiji; and Yoshida, Hiroshi, 4,661,415, Cl. 428-570.000.
Tamura, Kimio: *See*—
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,670,852, Cl. 364-565.000.
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,672,547, Cl. 364-426.000.
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Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,665,490, Cl. 364-426.000.
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Nakashima, Noriyuki; Wakao, Teruyoshi; Tamura, Kimio; and Makino, Nobuhiko, 4,664,409, Cl. 280-707.000.
Tamura, Kinichi; Sekine, Yoshitada; and Yokota, Fumiki, to Nissan Motor Company, Limited. Method and system for automatically attaching works onto vehicle bodies carried on a conveyor. 4,669,168, 6-2-87, Cl. 29-429.000.
Tamura, Kinichi; Kawada, Susumu; Sekine, Yoshitada; Abe, Kazuyoshi; Ishikawa, Ryosuke; and Yokota, Fumiki, to Nissan Motor Co., Ltd. Machine for holding workpiece. 4,691,905, 9-8-87, Cl. 269-45.000.
Tamura, Kohki: *See*—
Okada, Hideo; Takeuchi, Masato; Okabe, Sigeru; Tobita, Hiroshi; Matsuda, Shimpei; Tamura, Kohki; and Nakajima, Fumato, 4,656,735, Cl. 29-623.100.
Okada, Hideo; Okabe, Sigeru; Iwase, Yoshio; Takeuchi, Masato; and Tamura, Kohki, 4,699,853, Cl. 429-37.000.
Takeuchi, Seizi; Kamo, Tomoichi; Horiba, Tatsuo; Kitami, Kunio; Mori, Toshikatsu; Kahara, Toshiki; Imahashi, Jinichi; Honji, Akio; Takeuchi, Masato; and Tamura, Kohki, 4,643,957, Cl. 429-41.000.
Tamura, Konoshin: *See*—
Nakahara, Takafumi; Fujiwara, Makoto; Kondo, Motoe; Miyawaki, Yoshiharu; Hanmyo, Masayuki; Kinoshita, Shinya; Matsui, Masao; Tamura, Konoshin; and Murata, Susumu, 4,671,752, Cl. 425-7.000.
Tamura, Kouichi: *See*—
Kitagawa, Katsuichi; and Tamura, Kouichi, 4,693,608, Cl. 356-394.000.
Tamura, Kozo: *See*—
Hosaka, Nobuyoshi; Shimizu, Tasuku; Mikada, Kenzo; Tamura, Kozo; and Tanabe, Masatoshi, 4,678,571, Cl. 210-202.000.
Tamura, Mamoru: *See*—
Hiroshima, Toshio; Tamura, Mamoru; and Sakaizumi, Mikio, 4,676,693, Cl. 405-50.000.
Tamura, Masafumi; Uchiyama, Arisa; Kondo, Takashi; and Kageyama, Satoshi, to Kabushiki Kaisha Toshiba. Picture processing apparatus. 4,709,264, 11-24-87, Cl. 358-93.000.
Tamura, Masaki, to Nissan Motor Co., Ltd. Fuel tank vent pipe arrangement in vehicle body construction. 4,676,517, 6-30-87, Cl. 280-5.00A.
Tamura, Masanobu: *See*—
Takahashi, Hiroshi; Tamura, Masanobu; and Sato, Kunihiko, 4,705,004, Cl. 123-491.000.
Tamura, Masao: *See*—
Shukuri, Shoji; Tamura, Masao; Wada, Yasuo; and Fujisaki, Yoshihisa, 4,716,127, Cl. 437-27.000.
Wada, Yasuo; Tamura, Masao; Natsuaki, Nobuyoshi; and Ohyu, Kiyonori, 4,655,875, Cl. 156-643.000.
Tamura, Masayuki: *See*—
Hidaka, Yoshiaki; Araki, Junichi; and Tamura, Masayuki, 4,644,911, Cl. 123-52.00M.
Tamura, Michio: *See*—
Kubouwa, Shigeo; Okada, Hideki; and Tamura, Michio, 4,689,520, Cl. 313-468.000.
Tamura, Minoru: *See*—
Asano, Hiroyuki; Katayose, Shinji; Inoue, Hideaki; Takei, Akira; and Tamura, Minoru, 4,649,880, Cl. 123-399.000.
Tanabe, Yasuo; and Tamura, Minoru, 4,656,021, Cl. 423-350.000.
Tamura, Mitsuhiko; Katsumata, Haruo; and Nakanome, Takemi, to Mitsubishi Chemical Industries Limited. Process for preparing 2,3-dihydro-7-aminobenzofurans. 4,647,677, 3-3-87, Cl. 549-462.000.
Tamura, Mitsuhiko; Katsumata, Haruo; Urakawa, Kiyoharu; and Ohtani, Yoshiaki, to Mitsubishi Chemical Industries Ltd. Process for preparing 2-(1-hydroxyalkyl)-cyclohexanone and/or 2-alkylidene cyclohexanone. 4,668,827, 5-26-87, Cl. 568-345.000.
Tamura, Naoyuki: *See*—
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Tamura, Naoyuki; Nakanishi, Hiroshi; Yagi, Tetsuya; and Kuroiwa, Shintaro, 4,664,829, Cl. 252-52.00R.
Tamura, Nobuhiko: *See*—
Yamamoto, Michihiro; Ozato, Yukinori; Tamura, Nobuhiko; Miyagishi, Akira; and Hara, Youichi, 4,705,786, Cl. 514-252.000.
Tamura, Norikazu: *See*—
Yoshioka, Koichi; Tamura, Norikazu; and Natsugari, Hideaki, 4,698,339, Cl. 514-210.000.
Tamura, Poohsan N., to Westinghouse Electric Corp. Optical three-dimensional digital data acquisition system. 4,653,104, 3-24-87, Cl. 382-1.000.
Tamura, Sadahiro: *See*—
Inoue, Atsushi; Kuroda, Yuji; and Tamura, Sadahiro, 4,694,262, Cl. 331-96.000.
Nishikawa, Toshio; and Tamura, Sadahiro, 4,713,632, Cl. 331-117.00D.
Tamura, Shinichi; and Uga, Masanori, to Disco Abrasive Systems, Ltd. Automatic accurate alignment system. 4,672,557, 6-9-87, Cl. 364-490.000.
Tamura, Shinichiro; and Seto, Junetsu, to Sony Corporation. Photochromic photosensitive compositions. 4,693,962, 9-15-87, Cl. 430-345.000.
Tamura, Shuichi, to Canon Kabushiki Kaisha. Distance measuring device. 4,652,107, 3-24-87, Cl. 354-403.000.
Tamura, Shuichi: *See*—
Alyfuku, Kiyoshi; and Tamura, Shuichi, 4,664,495, Cl. 354-430.000.

Sakane, Toshio; Taguchi, Tetsuya; Ogawa, Masahiko; Tamura, Shuichi; and Tsunekawa, Tokuichi, 4,636,053, Cl. 354-403.000.
Suzuki, Ryoichi; Taka, Hideo; and Tamura, Shuichi, 4,682,872, Cl. 354-403.000.

Tamura, Tadashi: *See*—
Nakamura, Koichi; Hattori, Michihiro; Tamura, Tadashi; Tejima, Toru; Takaishi, Naotake; Imokawa, Genji; and Hotta, Hajime, 4,710,373, Cl. 424-59.000.
Nakamura, Toshio; Tamura, Tadashi; Kimura, Naomi; and Urata, Susumu, 4,706,555, Cl. 99-283.000.
Takada, Mitsuru; Itoh, Hiroshi; Hiramatsu, Shigeki; and Tamura, Tadashi, 4,682,518, Cl. 74-867.000.

Tamura, Takaaki; Fujita, Norihiko; Kawanishi, Toshio; and Matsuura, Chihiro, to Industrial Research Institute. Process for preparing carbon monoxide platinum conversion catalyst. 4,652,537, 3-24-87, Cl. 502-5.000.

Tamura, Takahiko; and Sengoku, Yoshinari, to Sony Corporation. Circuit for blanking the video of a television set for a time after turn-on. 4,692,793, 9-8-87, Cl. 358-29.000.

Tamura, Takahiro: *See*—
Mizuno, Takao; Arata, Tetsuya; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuno, Hiroaki, 4,669,962, Cl. 418-55.000.
Mizuno, Takao; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuroshima, Ryoichi, 4,714,415, Cl. 418-14.000.
Murayama, Akira; Kuno, Hiroaki; Uchikawa, Naoshi; Tamura, Takahiro; Mizuno, Takao; Aiba, Kazumi; Ikeda, Mitsuo; and Fukatsu, Kiyoshi, 4,690,625, Cl. 418-55.000.

Tamura, Takashi, to Konishiroku Photo Industry Co., Ltd. Cartridge-type apparatus for exchanging a developing device and toner supply container. 4,692,018, 9-8-87, Cl. 355-3.00R.

Tamura, Takashi: *See*—
Hirano, Yoshiyuki; Seo, Yosuke; Okuwaki, Toyoji; Kato, Katsuhiko; and Tamura, Takashi, 4,651,242, Cl. 360-103.000.
Nishiyama, Noboumasa; Aoi, Hajime; Tamura, Takashi; Ouchi, Yasuhide; and Saitou, Makoto, 4,644,424, Cl. 360-65.000.
Ohta, Norio; Okamine, Shigenori; Sugita, Yutaka; Seo, Yosuke; and Tamura, Takashi, 4,707,755, Cl. 360-114.000.
Ouchi, Yasuhide; Aoi, Hajime; Tamura, Takashi; Nakabayashi, Kazuyoshi; and Uchiyama, Takamasa, 4,651,236, Cl. 360-45.000.

Tamura, Takeo, to Tanabe Machinery Co., Ltd. Foldable case blank. 4,658,961, 4-21-87, Cl. 206-509.000.

Tamura, Tatsuo: *See*—
Saito, Junichi; Tamura, Tatsuo; Kurahashi, Yoshio; Uzawa, Shigeru; Matsumoto, Noboru; and Yamaguchi, Naoko, 4,710,509, Cl. 514-384.000.

Tamura, Tatsuya: *See*—
Nishimura, Tatsuo; and Tamura, Tatsuya, 4,676,090, Cl. 72-404.000.

Tamura, Teizo: *See*—
Tajima, Fumio; Katayama, Hiroshi; Miyashita, Kunio; Tamura, Teizo; Hironaka, Kenichi; Kawano, Takuro; Sekita, Yosimi; Saito, Kouichi; and Tamura, Akira, 4,672,253, Cl. 310-269.000.

Tamura, Tetsuji; and Sasaki, Masahiko, to Mitsui Engineering & Shipbuilding Co., Ltd. Apparatus for automatically applying lubrication in lifting device. 4,653,610, 3-31-87, Cl. 184-6.120.

Tamura, Tooru: *See*—
Ito, Akio; Mochizuki, Hideaki; Sunohara, Masaaki; and Tamura, Tooru, 4,701,770, Cl. 346-135.100.

Tamura, Toru; Shibata, Noriyoshi; and Kawakami, Toshiro, to Aisin Seiki Kabushiki Kaisha. Thrust bearing for turbocharger. 4,639,148, 1-27-87, Cl. 384-420.000.

Tamura, Toshifumi: *See*—
Shibagaki, Taro; Ibe, Hiroyuki; Tamura, Toshifumi; Ozeki, Takeshi; and Hirayama, Yoichi, 4,704,715, Cl. 370-50.000.

Tamura, Toshihisa: *See*—
Ohtani, Teruo; Tamura, Toshihisa; Ikeda, Yuji; Araikawa, Mutsuya; and Kywata, Kazuyoshi, 4,696,635, Cl. 425-330.000.

Tamura, Toshinari; Iwamoto, Hidenori; Yoshida, Makoto; and Yamamoto, Minoru, to Yamanouchi Pharmaceutical Co., Ltd. 4-substituted-2-azetidinone compound. 4,636,567, 1-13-87, Cl. 548-336.000.

Tamura, Yasuji, to Sanden Corporation. Audio-frequency electromechanical vibrator. 4,680,492, 7-14-87, Cl. 310-15.000.

Tamura, Yasuji, to Sanden Corporation. Slip detecting device for a prime mover. 4,697,091, 9-29-87, Cl. 290-45.000.

Tamura, Yasuyuki; Kaneko, Shuzo; and Takahashi, Tohru, to Canon Kabushiki Kaisha. Image formation method and apparatus in which imaging light and conductive toner are applied to opposite surfaces of a photosensitive member. 4,649,094, 3-10-87, Cl. 430-126.000.

Tamura, Yasuyuki: *See*—
Okada, Shinjiro; and Tamura, Yasuyuki, 4,697,887, Cl. 350-350.00S.

Tamura, Yoshiaki: *See*—
Katayama, Hiroyuki; Ishikawa, Hidetake; Kuwabara, Masatoshi; Kajioka, Hiroyuki; Fujita, Masaki; Shibata, Kenji; Tamura, Yoshiaki; and Shimanuki, Takashi, 4,662,937, Cl. 75-80.000.

Tamura, Yoshiharu; and Kimura, Katsuji, to NEC Corporation. Battery-powered radio communication apparatus capable of prolonging the communicable state thereof. 4,709,404, 11-24-87, Cl. 455-126.000.

Tamura, Yoshikazu; and Kitajima, Katsuo, to Anelva Corporation. Power supply system for a quadrupole mass spectrometer. 4,703,190, 10-27-87, Cl. 307-2.000.

Tamura, Youichi: *See*—
Sonobe, Youji; Tamura, Youichi; and Umesaki, Kenichiro, 4,643,572, Cl. 356-334.000.

Tamura, Yukio: *See*—
Takano, Masami; and Tamura, Yukio, 4,710,659, Cl. 310-153.000.

Tamura, Yutaka, to Mitsubishi Petrochemical Co., Ltd. Process for producing heat-resisting moldings. 4,663,375, 5-5-87, Cl. 524-171.000.

Tamura, Zensuke: *See*—
Sato, Isao; Ishibashi, Yoji; Tamura, Zensuke; Ohmori, Takashi; Minakawa, Yoshimitsu; Fujimura, Hidekazu; and Uchiyama, Yoshihiro, 4,671,069, Cl. 60-737.000.

Tamutus, Donald J., to RCA Corporation. Method of making a focusing color-selection structure for a CRT. 4,650,435, 3-17-87, Cl. 445-47.000.

Tamworth, Inc.: *See*—
Littleton, Jody; and Davis, Gary W., 4,709,719, Cl. 137-268.000.

Tan, Ewe-Hong: *See*—
Deschler, Ulrich; Panster, Peter; Kleinschmit, Peter; Wolff, Siegfried; and Tan, Ewe-Hong, 4,645,850, Cl. 556-431.000.
Deschler, Ulrich; Panster, Peter; Kleinschmit, Peter; Wolff, Siegfried; and Tan, Ewe-Hong, 4,704,428, Cl. 524-535.000.

Tan, Hong S.; and Wegman, Bernardus B. M., to Gist-Brocades N.V. Pharmaceutical tablets. 4,711,777, 12-8-87, Cl. 424-79.000.

Tan, Kee H.; and Sherlock, William R., to Shell Oil Company. Retractable flow line connector. 4,664,419, 5-12-87, Cl. 285-31.000.

Tan, Khen-Sang: *See*—
Hester, Richard K.; and Tan, Khen-Sang, 4,638,451, Cl. 364-900.000.
Marin, James S.; and Tan, Khen-Sang, 4,654,815, Cl. 364-606.000.

Tan, Loon-Seng; and Arnold, Fred E., to University of Dayton. Resin systems derived from benzocyclobutene-alkyne imide monomers. 4,675,370, 6-23-87, Cl. 526-259.000.

Tan, Loon-Seng; and Arnold, Fred E., to University of Dayton. Bisdiene from bis-benzocyclobutene compound. 4,711,964, 12-8-87, Cl. 548-461.000.

Tan, Masayuki: *See*—
Takaoka, Michio; Motai, Tsuneaki; Ono, Motoyuki; Kaji, Isao; Hasegawa, Masakazu; Tan, Masayuki; and Kurata, Masaru, 4,701,117, Cl. 425-116.000.

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Tan, Peng. Liquid crystal hot spot detection with infinitesimal temperature control. 4,682,857, 7-28-87, Cl. 350-331.00T.

Tan, Sing L.; and Schreurs, Louis P. M., to U.S. Philips Corporation. Color television transmission or data storage system having time-division multiplex encoding and data generator and receiver suitable therefor. 4,636,835, 1-13-87, Cl. 358-12.000.

Tan, Sing L.: *See*—
Vreeswijk, Franciscus W. P.; and Tan, Sing L., 4,704,629, Cl. 358-142.000.

Tan, Siv C.; Le Galle, Didier; and Benchimol, Claude, to Thomson-CGR. Method of reconstructing a high resolution image by tomodensitometry. 4,682,290, 7-21-87, Cl. 364-414.000.

Tan, Siv C.; Nguyen, Tri H.; and Benchimol, Claude D., to Thomson-CGR. Process of image reconstruction by tomodensitometry with improved spatial resolution. 4,694,399, 9-15-87, Cl. 364-414.000.

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Tan, Yoichi, to Fuji Xerox Co., Ltd. Digital signal transmission system. 4,656,628, 4-7-87, Cl. 370-85.000.

Tanabe, Hidemichi: *See*—
Ohba, Masahiro; Sugimoto, Hiroshi; Kamiya, Toru; Yamazaki, Toru; Tanabe, Hidemichi; Hirano, Satoshi; Namba, Hideaki; Matsui, Katsumasa; and Miura, Hisahiro, 4,668,873, Cl. 307-9.000.

Tanabe, Hideo: *See*—
Kitada, Masahiro; Tanabe, Hideo; Shimizu, Noboru; Tsuchiya, Hiroshi; and Katsumata, Masao, 4,663,607, Cl. 338-32.00H.

Tanabe, Hiroshi; Yamamoto, Etsuo; Togashi, Seigo; Sekiguchi, Kanetaka; Aota, Katsumi; and Sorimachi, Kazuaki, to Citizen Watch Co., Ltd. Method of making a liquid crystal display with color filters. 4,673,253, 6-16-87, Cl. 350-339.00F.

Tanabe, Hiroshi: *See*—
Togashi, Seigo; Yamamoto, Etsuo; Aota, Katsumi; Tanabe, Hiroshi; Sekiguchi, Kanetaka; and Sorimachi, Kazuaki, 4,655,552, Cl. 350-342.000.

Tanabe, Hisaki: *See*—
Satoh, Haruhiko; Tanabe, Hisaki; and Umemoto, Hirotoshi, 4,680,348, Cl. 525-528.000.

Tanabe, Hisao; Takahashi, Masaru; Ozawa, Hiroyasu; Machida, Shoichi; and Kitamura, Makoto, to Tokico Ltd. Hydraulic damper. 4,683,993, 8-4-87, Cl. 188-321.110.

Tanabe, Hisayuki: *See*—
Hayashi, Seiichi; Nakamura, Takashi; and Tanabe, Hisayuki, 4,710,782, Cl. 346-76.00R.

Tanabe, Keiji: *See*—
Okuyama, Takahiro; Toki, Susumu; and Tanabe, Keiji, 4,658,770, Cl. 123-90.410.

Tanabe, Kenjiro: *See*—
Takagi, Tsuneo; Tanabe, Kenjiro; Fukushima, Masao; Kyushima, Hiroki; Takenaka, Kiyoshi; Okada, Akira; and Isogaki, Yoshinori, 4,641,951, Cl. 355-7.000.

Tanabe Machinery Co., Ltd.: *See*—
Tamura, Takeo, 4,658,961, Cl. 206-509.000.

Tanabe, Masanori: *See*—
Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakami, Kanji; Okada, Hisao; Sasaki, Soji; Inose, Shigeru; Suto, Mareo; and Uzuhashi, Hideo, 4,665,282, Cl. 178-18.000.

Yamada, Kazuji; Kobayashi, Yutaka; Kawakami, Kanji; Shimada, Satoshi; Tanabe, Masanori; and Kobori, Shigeyuki, 4,670,969, Cl. 29-576.00E.

Tanabe, Masato: *See—*
Crowe, David F.; Tanabe, Masato; and Peters, Richard, 4,705,783, Cl. 514-180.000.

Tanabe, Masatoshi: *See—*
Hosaka, Nobuyoshi; Shimizu, Tasuku; Mikada, Kenzo; Tamura, Kozo; and Tanabe, Masatoshi, 4,678,571, Cl. 210-202.000.

Tanabe, Minoru; and Hirota, Masatoshi, to Matsushita Electric Industrial Co., Ltd. Pen recorder. 4,668,963, 5-26-87, Cl. 346-139.00C.

Tanabe, Osamu, to Alps Electric Co., Ltd. Push-push switch. 4,636,601, 1-13-87, Cl. 200-153.00J.

Tanabe, Seiichi: *See—*
Kinoshita, Tomohiro; Tanabe, Seiichi; and Sasakawa, Eishiro, 4,683,177, Cl. 429-26.000.
Yokoyama, Jiro; and Tanabe, Seiichi, 4,699,852, Cl. 429-31.000.

Tanabe Seiyaku Co., Ltd.: *See—*
Inoue, Ichizo; Oine, Toyonari; Yamada, Yoshihisa; Ishida, Ryuichi; and Ochiai, Takashi, 4,714,702, Cl. 514-259.000.
Kisumi, Masahiko; and Takagi, Tsutomu, 4,656,136, Cl. 435-253.000.
Kisumi, Masahiko; Komatsubara, Saburo; and Taniguchi, Tomoyasu, 4,692,409, Cl. 435-109.000.
Matsumoto, Kazuo; and Takashima, Kohki, 4,642,313, Cl. 514-374.000.
Nakai, Hideo; Wada, Hiroshi, Nagao, Taku; and Yabana, Hideo, 4,689,327, Cl. 514-252.000.
Samejima, Masayoshi; Matsuda, Saburo; Wakabayashi, Toshio; and Hayakawa, Naoki, 4,670,261, Cl. 424-127.000.
Sugano, Hiroshi; Ishida, Ryuichi; and Yamamura, Michio, 4,665,056, Cl. 514-18.000.
Sugano, Hiroshi; Ishida, Ryuichi; and Yamamura, Michio, 4,711,878, Cl. 514-18.000.
Takeda, Mikio; Oh-ishi, Tokuro; Nakajima, Hiromichi; and Nagao, Taku, 4,665,068, Cl. 514-211.000.

Tanabe Seiyku Co., Ltd.: *See—*
Iijima, Ikuo; Homma, Koichi; Saiga, Yutaka; Matsuoka, Yuzo; and Matsumoto, Mamoru, 4,663,319, Cl. 514-212.000.

Tanabe, Susumu: *See—*
Seki, Shigehazu; and Tanabe, Susumu, 4,685,470, Cl. 128-692.000.

Tanabe, Takeshi, to Murata Manufacturing Co., Ltd. Feed-through type multilayer capacitor. 4,665,465, 5-12-87, Cl. 361-306.000.

Tanabe, Takeshi: *See—*
Shin, Yasuo; and Tanabe, Takeshi, 4,691,186, Cl. 338-34.000.

Tanabe, Tohru, to Rhythm Watch Company Limited. Musical scale generating circuit. 4,699,518, 10-13-87, Cl. 368-75.000.

Tanabe, Tohru, to Rhythm Watch Company Limited. Electronic timepiece. 4,712,926, 12-15-87, Cl. 368-251.000.

Tanabe, Tomoaki: *See—*
Takayama, Yoshihisa; Fuji, Shigeru; and Tanabe, Tomoaki, 4,701,777, Cl. 357-42.000.

Tanabe, Toshiyuki; and Noguchi, Minoru, to Kabushiki Kaisha Toshiba. Sampling clock pulse generator. 4,672,639, 6-9-87, Cl. 375-118.000.

Tanabe, Toshiyuki; and Noguchi, Minoru, to Kabushiki Kaisha Toshiba. Reference signal reproduction apparatus. 4,688,094, 8-18-87, Cl. 358-148.000.

Tanabe, Toshiyuki, to Kabushiki Kaisha Toshiba. Sync apparatus for image multiplex transmission system. 4,712,131, 12-8-87, Cl. 358-142.000.

Tanabe, Tsuneaki: *See—*
Inoue, Akio; and Tanabe, Tsuneaki, 4,683,261, Cl. 524-566.000.

Tanabe, Yasuo; and Tamura, Minoru, to Mitsubishi Chemical Industries, Ltd. Method for the production of silicon. 4,656,021, 4-7-87, Cl. 423-350.000.

Tanabe, Yoshiaki; Katayama, Akira; and Hasuda, Masanori, to Nippon Kogaku K. K. Shutter device for camera. 4,657,366, 4-14-87, Cl. 354-246.000.

Tanabe, Yoshiaki: *See—*
Tanaka, Etsuo; and Tanabe, Yoshiaki, 4,668,065, Cl. 354-152.000.

Tanabe, Yoshimitsu; Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Sugimoto, Kenichi; and Yamaguchi, Akihiro, to Mitsui Toatsu Chemicals, Inc. Process for producing 6,6'-dihydroxy-3,3,3',3'-tetramethyl-1,1'-spirobindane. 4,701,567, 10-20-87, Cl. 568-719.000.

Tanabe, Yoshimitsu: *See—*
Yamaguchi, Keizaburo; Sugimoto, Kenichi; Tanabe, Yoshimitsu; Yamazaki, Midori; and Yamaguchi, Akihiro, 4,671,890, Cl. 252-182.000.
Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Tanabe, Yoshimitsu; Sugimoto, Kenichi; and Yamaguchi, Akihiro, 4,692,554, Cl. 564-430.000.

Tanabe, Yoshio: *See—*
Iwasaki, Yoshitaka; Mori, Kunio; and Tanabe, Yoshio, 4,700,791, Cl. 177-2.000.
Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Watanabe, Hideaki; Igarashi, Toshiji; Shiojiri, Hiroyuki; Tanabe, Yoshio; and Hara, Kumiko, 4,639,450, Cl. 514-238.000.

Tanabe, Zenichi: *See—*
Ohashi, Azusa; Shirai, Akira; Sakaki, Hirokazu; Tanabe, Zenichi; Tsuchida, Shin; and Hayashi, Yoshikatsu, 4,634,656, Cl. 430-278.000.

Tanada, Kikuko: *See—*
Hirai, Shiro; Hirano, Hiroshi; Arai, Hirotoshi; Kiba, Yasuo; Shibata, Hisanari; Kusayanagi, Yoshikazu; Yotsuji, Minako; Hashiba, Kazuhiko; and Tanada, Kikuko, 4,643,849, Cl. 540-955.000.

Tanae, Hiroyuki: *See—*
Kifune, Koji; Yamaguchi, Yasuhiko; and Tanae, Hiroyuki, 4,651,725, Cl. 128-156.000.
Motosugi, Kenzo; Kifune, Koji; Yamaguchi, Yasuhiko; Nobe, Yasuo; and Tanae, Hiroyuki, 4,699,135, Cl. 128-156.000.

Tanagawa, Koji; and Ohashi, Isao, to Oki Electric Industry Co., Ltd. Microprocessor. 4,636,945, 1-13-87, Cl. 364-200.000.

Tanagho, Emil A.; Schmidt, Richard A.; Gleason, Curtis A.; and Lue, Tom F., to University of California, The Regents of the. Control system for the stimulation of two bodily functions. 4,703,755, 11-3-87, Cl. 128-419.00R.

Tanahashi, Haruhiko, to Toyota Jidosha Kabushiki Kaisha. Vehicle rear wheel suspension with dual links extending in the overall forward direction. 4,650,211, 3-17-87, Cl. 280-701.000.

Tanahashi, Maki; Horiike, Sumio; and Nakano, Hiroyuki, to Omron Tateisi Electronics Co. Bifunctional environment sensor. 4,649,364, 3-10-87, Cl. 338-14.000.

Tanahashi, Masao; Hamashima, Tetsuo; and Kumano, Humihiro, to Matsushita Electric Works, Ltd. Cutting head for an electric shaver. 4,635,360, 1-13-87, Cl. 30-34.200.

Tanahashi, Mitsuhiko: *See—*
Higuchi, Takayoshi; Tanahashi, Mitsuhiko; and Mastukura, Motoo, 4,684,740, Cl. 549-464.000.

Tanahashi, Tooru, to Mitsubishi Denki Kabushiki Kaisha. Speed control apparatus for an elevator. 4,671,389, 6-9-87, Cl. 187-119.000.

Tanahashi, Toshio: *See—*
Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Nagai, Toshinari; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,693,076, Cl. 60-274.000.
Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,703,619, Cl. 60-274.000.
Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,651,889, Cl. 220-85.0VR.
Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,657,156, Cl. 220-85.0VS.
Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,659,346, Cl. 55-182.000.
Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,701,198, Cl. 55-387.000.

Tanahashi, Yuka: *See—*
Sugimoto, Naotsugu; Torii, Kazutoshi; Tanahashi, Yuka; Morita, Hideo; Watanabe, Yuzo; Yamamoto, Kohei; and Kamuma, Tetsuke, 4,656,044, Cl. 426-592.000.

Tanai, Sumio: *See—*
Okonogi, Shigeo; Yuguchi, Hiroya; Miyazaki, Yusuke; Tanai, Sumio; and Ohta, Minoru, 4,668,520, Cl. 426-564.000.

Tanaka, Aki, to P.L. Porter Company. Seatback recliner mechanism and inertia operated lock. 4,634,182, 1-6-87, Cl. 297-379.000.

Tanaka, Aki; and Landis, David E., to P. L. Porter Company. Infinitely positionable lock for reclining seat. 4,685,736, 8-11-87, Cl. 297-366.000.

Tanaka, Akihiko: *See—*
Kanayama, Tatsuya; Yamanaka, Yutaka; Toyoda, Hitoshi; Tanaka, Akihiko; and Shinogaya, Toshikazu, 4,647,495, Cl. 428-246.000.

Tanaka, Akihiro: *See—*
Baba, Kenji; Watanabe, Shoji; Nogita, Shunsuke; Yoda, Miki; Tanaka, Akihiro; and Mori, Shunji, 4,654,139, Cl. 210-85.000.

Tanaka, Akinobu; Morita, Masao; Imamura, Saburo; Tamamura, Toshiaki; and Kogure, Osamu, to Nippon Telegraph and Telephone Corporation. Photosensitive resin composition and process for forming photo-resist pattern using the same. 4,702,990, 10-27-87, Cl. 430-197.000.

Tanaka, Akira, to Forming Industry, Inc. Automatic skewered food roaster. 4,635,539, 1-13-87, Cl. 99-421.00H.

Tanaka, Akira; and Unger, Hans, to American Safety Equipment Corporation. Lightweight, multiple-point, quick-release, safety buckle for body harnesses. 4,656,700, 4-14-87, Cl. 24-574.000.

Tanaka, Akira. Mounting device for helmet. 4,684,096, 8-4-87, Cl. 248-309.100.

Tanaka, Akira; and Watanabe, Hirokazu, to Yoshida Kogyo K. K. Button assembly. 4,706,344, 11-17-87, Cl. 24-94.000.

Tanaka, Akira: *See—*
Fukuroi, Takeo; and Tanaka, Akira, 4,686,749, Cl. 24-691.000.
Sack, John J.; Stamboulian, Nazareth; and Tanaka, Akira, 4,659,108, Cl. 280-807.000.

Tanaka, Atsuo; Kajikawa, Yoshiaki; Maeda, Yorishige; Machida, Shiro; and Dohnomoto, Tadashi, to Toyota Jidosha Kabushiki Kaisha. Light metal alloy piston. 4,669,367, 6-2-87, Cl. 92-227.000.

Tanaka, Atsuo; and Dohnomoto, Tadashi, to Toyota Jidosha Kabushiki Kaisha. Fiber reinforced metal composite material. 4,696,866, 9-29-87, Cl. 428-614.000.

Tanaka, Atsuo: *See—*
Donomoto, Tadashi; Tatematsu, Yoshiaki; Tanaka, Atsuo; and Kubo, Masahiro, 4,708,847, Cl. 420-129.000.
Hamajima, Kaneo; Dohnomoto, Tadashi; Tanaka, Atsuo; and Kubo, Masahiro, 4,712,600, Cl. 164-97.000.
Okumura, Kunio; Fukuyama, Yasuo; and Tanaka, Atsuo, 4,640,808, Cl. 264-46.500.
Tatematsu, Yoshiaki; and Tanaka, Atsuo, 4,694,735, Cl. 92-208.000.

Tanaka, Atsuyuki: *See—*
Nishiyama, Masaaki; and Tanaka, Atsuyuki, 4,703,438, Cl. 364-519.000.

Tanaka, Chihaya: *See*—
Yamanishi, Toru; Kameo, Yuji; Yoshida, Masaaki; Yuto, Masao; and Tanaka, Chihaya, 4,655,545, Cl. 350-96.340.

Tanaka, Eiichi; Furumai, Koro; and Kikutani, Fumitaka, to Matsushita Electric Industrial Co., Ltd. Multistage fuel burner having a helically rising column of air-fuel mixture. 4,678,428, 7-7-87, Cl. 431-76.000.

Tanaka, Eiichi: *See*—
Moriwaki, Masafumi; Sano, Shigeaki; and Tanaka, Eiichi, 4,636,582, Cl. 178-18.000.
Nakagawa, Taizo; Tanaka, Eiichi; Koike, Kengo; Yoshida, Hiromi; and Yoshida, Hiroshi, 4,659,722, Cl. 514-332.000.

Tanaka, Eiichiro: *See*—
Kuramoto, Yukimasa; and Tanaka, Eiichiro, 4,657,374, Cl. 355-3.00R.

Tanaka, Eiji: *See*—
Suga, Yoshinori; Tanaka, Eiji; Enokido, Nobuo; and Maruyama, Yasuo, 4,645,797, Cl. 525-191.000.

Tanaka, Etsuo; and Tanabe, Yoshiaki, to Nippon Kogaku K. K. Shock absorbing device of a single lens reflex camera. 4,668,065, 5-26-87, Cl. 354-152.000.

Tanaka, Fujio; and Imamura, Nobutake, to Kokusai Denshin Denwa Kabushiki Kaisha. Magneto-optical recording medium. 4,701,881, 10-20-87, Cl. 365-122.000.

Tanaka, Fumihiro; Shimada, Yoshio; Yamaguchi, Kaneo; Matsushima, Kenichi; and Watanabe, Shinya, to Seiko Instruments & Electronics Ltd. Interface circuit of video signal hard copy apparatus. 4,713,691, 12-15-87, Cl. 358-148.000.

Tanaka, Fumihiro: *See*—
Watanabe, Shinya; Tanaka, Fumihiro; Yamaguchi, Kaneo; Shimada, Yoshio; and Matsushima, Kenichi, 4,713,690, Cl. 358-148.000.

Tanaka, Fuminari: *See*—
Sahoda, Masayuki; Tanaka, Fuminari; and Iida, Tetsuya, 4,701,877, Cl. 364-784.000.
Shigehara, Hiroshi; and Tanaka, Fuminari, 4,669,121, Cl. 381-51.000.

Tanaka, Fusatoshi; Nakatani, Shuichi; Nakayama, Hideo; and Hanafusa, Hiroyuki, to Mazda Motor Corporation. Cylinder head for combustion engine. 4,660,527, 4-28-87, Cl. 123-41.82R.

Tanaka, Fusatoshi: *See*—
Nakayama, Hideo; Nakatani, Shuichi; Tanaka, Fusatoshi; and Hanafusa, Hiroyuki, 4,690,106, Cl. 123-52.00M.

Tanaka, Genji: *See*—
Iwata, Akira; Tamamaki, Masahiro; Tanaka, Genji; Taniguchi, Masaaki; and Tsuda, Kouji, 4,671,917, Cl. 264-332.000.

Tanaka, Gotaro; Fujiwara, Kunio; and Matsuda, Yasuo, to Sumitomo Electric Industries, Ltd. Optical fiber and process for producing the same. 4,664,474, 5-12-87, Cl. 350-96.340.

Tanaka, Gotaro; Mizutani, Futoshi; Yoshioka, Naoki; and Kanamori, Hiroo, to Sumitomo Electric Industries, Ltd. Method for producing glass preform for single mode optical fiber. 4,675,040, 6-23-87, Cl. 65-3.120.

Tanaka, Gotaro: *See*—
Hoshikawa, Masao; Kyoto, Michihisa; Yano, Koji; and Tanaka, Gotaro, 4,693,738, Cl. 65-3.110.
Kyoto, Michihisa; Ishiguro, Yoichi; Kawauchi, Hiroshi; and Tanaka, Gotaro, 4,655,808, Cl. 65-3.120.
Mizutani, Futoshi; Tanaka, Gotaro; and Kanamori, Hiroo, 4,666,488, Cl. 65-3.120.
Yokota, Hiroshi; Tanaka, Gotaro; Kanamori, Hiroo; Mizutani, Futoshi; and Danzuka, Toshio, 4,668,263, Cl. 65-3.110.

Tanaka, Hajime: *See*—
Murata, Hideo; Yamauchi, Masaaki; and Tanaka, Hajime, 4,674,228, Cl. 47-1.100.

Tanaka, Haruhiko: *See*—
Murakami, Eiji; Hyodo, Toru; and Tanaka, Haruhiko, 4,651,663, Cl. 112-458.000.

Tanaka, Haruma, and Ohashi, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Poly-V pulley formed of sheet metal and method and apparatus for making same. 4,697,445, 10-6-87, Cl. 72-68.000.

Tanaka, Haruo: *See*—
Ura, Shigeru; Iwata, Mikio; Tanaka, Haruo; and Shiono, Hiroyuki, 4,657,821, Cl. 428-510.000.

Tanaka, Haruto; and Kawabata, Kazunobu, to Nissan Motor Company, Limited. Automatic level control system for automotive vehicle with fail-safe system therefor. 4,659,104, 4-21-87, Cl. 280-707.000.

Tanaka, Hatsuyuki: *See*—
Matsuno, Yutaka; Kumagai, Tadanobu; and Tanaka, Hatsuyuki, 4,701,982, Cl. 24-273.000.

Tanaka, Hideaki, to Hitachi Construction Machinery Co., Ltd. Locking apparatus of inertial mass drive hydraulic circuit system. 4,644,849, 2-24-87, Cl. 91-445.000.

Tanaka, Hideaki: *See*—
Fujita, Kunihiro; and Tanaka, Hideaki, 4,682,973, Cl. 474-263.000.
Okabe, Nobuya; Hirata, Toichi; Yoshida, Kuniaki; Sugiyama, Genroku; Haga, Masakazu; Tanaka, Hideaki; and Tatsumi, Akira, 4,697,418, Cl. 60-434.000.

Tanaka, Hidecharu; Sekiya, Mutsuo; and Uchikawa, Fusaoki, to Mitsubishi Denki Kabushiki Kaisha. Muffler for exhaust gas from internal combustion engine. 4,700,805, 10-20-87, Cl. 181-265.000.

Tanaka, Hidehiko: *See*—
Ise, Masahiro; Tanaka, Hidehiko; Machino, Katsuyuki; Matsubara, Toshiyuki; and Terasaka, Teiji, 4,675,668, Cl. 340-825.080.

Tanaka, Hideki; Tokushima, Takashige; Higashi, Haruki; and Hamada, Shigeki, to Mazda Motor Corporation. Means for suppressing engine output torque fluctuations. 4,699,097, 10-13-87, Cl. 123-192.00R.

Tanaka, Hideki: *See*—
Katsuno, Mitsuaki; Gyoda, Toshio; Tanaka, Hideki; Furumoto, Kunihiro; Yoshitsugu, Norttada; and Matsui, Kenji, 4,682,790, Cl. 280-801.000.
Suzuki, Akira; Tanaka, Hideki; and Murakami, Gen, 4,707,724, Cl. 357-71.000.

Tanaka, Hidenori, to Victor Company of Japan, Ltd. System for reproducing a video signal in a still picture reproduction. 4,649,439, 3-10-87, Cl. 360-10.300.

Tanaka, Hidenori, to Victor Company of Japan, Ltd. Vertical synchronizing signal separating circuit. 4,694,340, 9-15-87, Cl. 358-154.000.

Tanaka, Hidenori, to Victor Company of Japan, Ltd. Head switching signal producing circuit with compensation of a phase error due to the positioning of a rotary drum head and a rotational phase detector. 4,706,137, 11-10-87, Cl. 360-64.000.

Tanaka, Hideo; Ohhashi, Kuniyoshi; Gomi, Tatsuya; and Dobashi, Tomoyuki, to Suntory Limited; and Dainippon Ink and Chemicals, Inc. Beer container having means for frothing the content thereof. 4,649,054, 3-10-87, Cl. 426-397.000.

Tanaka, Hideo: *See*—
Fujita, Shigeru; Banzai, Hideo, and Tanaka, Hideo, 4,680,151, Cl. 264-40.300.
Murakami, Yoshikazu; Ito, Seigo; Okamoto, Hiromi; and Tanaka, Hideo, 4,679,015, Cl. 333-219.000.
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,656,264, Cl. 540-353.000.
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,665,166, Cl. 540-215.000.
Torii, Sigeru; Uneyama, Kenji; Tanaka, Hideo; Nokami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, 4,689,411, Cl. 540-358.000.
Torii, Sigeru; Tanaka, Hideo; Sasaoka, Michio; Uto, Seiryu; and Hayase, Syozo, 4,713,452, Cl. 540-358.000.
Uno, Kunihiko; Nakazato, Kunihiro; Noshigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mihara, Jiro; and Takai, Kiyoaki, 4,639,927, Cl. 373-84.000.

Tanaka, Hideshi, to Victor Company of Japan, Ltd. Gradation control device for thermal ink-transfer type printing apparatus. 4,652,892, 3-24-87, Cl. 346-76.0PH.

Tanaka, Hideshi, to Victor Company of Japan, Ltd. Thermal transfer printing apparatus. 4,704,615, 11-3-87, Cl. 346-76.0PH.

Tanaka, Hidetake; Niki, Akio; and Kuramochi, Osamu, to Ricoh Company, Ltd. Dot matrix printer control and storage device. 4,674,895, 6-23-87, Cl. 400-121.000.

Tanaka, Hidetoshi, to Canon Kabushiki Kaisha. Method and apparatus for two-side image formation. 4,674,866, 6-23-87, Cl. 355-23.000.

Tanaka, Hiroaki; and Akita, Shigeyuki, to Nippon Seiken, Inc. Incremental encoder rotational position detector. 4,638,249, 1-20-87, Cl. 324-166.000.

Tanaka, Hiroaki: *See*—
Numata, Koji; Tanaka, Hiroaki; and Kuno, Akira, 4,633,709, Cl. 73-178.00R.

Tanaka, Hirofumi: *See*—
Inoguchi, Kenichi; Iwakura, Yoichi; Tanaka, Hirofumi; and Umehara, Jun, 4,676,204, Cl. 123-179.000.

Tanaka, Hirohisa, to Nippon Seiko Kabushiki Kaisha. Control device of an infinitely variable transmission. 4,648,691, 1-27-87, Cl. 74-866.00.

Tanaka, Hirokazu: *See*—
Kitaura, Yoshihiko; Nakaguchi, Osamu; Hemmi, Keiji; Aratani, Matsuhiko; Takeno, Hidekazu; Okada, Satoshi; Tanaka, Hirokazu; Hashimoto, Masashi; Kuroda, Yoshio; Iguchi, Eiko; Kohsaka, Masanobu; Aoki, Hatsuo; and Imanaka, Hiroshi, 4,666,890, Cl. 514-18.000.
Kiyoto, Sumio; Okuhara, Masakuni; Kino, Eiko; Tanaka, Hirokazu; Aoki, Hatsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,680,178, Cl. 424-122.000.
Umehara, Kazuyoshi; Yoshida, Keizo; Tanaka, Hirokazu; Uchida, Itsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,643,990, Cl. 514-18.000.

Tanaka, Hirokuni, to Sanki Kogyo Kabushiki Kaisha. Clean tunnel conveying structure. 4,649,830, 3-17-87, Cl. 104-138.100.

Tanaka, Hirokuni, to Sanki Kogyo Kabushiki Kaisha. Clean air supply means in a clean tunnel. 4,660,464, 4-28-87, Cl. 98-115.300.

Tanaka, Hironori; Matsumoto, Masafumi; and Kotani, Matahira, to Sharp Kabushiki Kaisha. Paper supplying device. 4,696,462, 9-29-87, Cl. 271-10.000.

Tanaka, Hiroshi; Kakizaki, Yukio; Iwata, Hiromitsu; and Nazai, Tsuyoshi, to Nippon Kogaku K. K. Substrate positioning apparatus. 4,655,584, 4-7-87, Cl. 355-53.000.

Tanaka, Hiroshi; and Kikuchi, Toshiaki, to Mitsubishi Kinzoku Kabushiki Kaisha. Process for processing waste solution containing ammonium ions and fluoride ions. 4,655,929, 4-7-87, Cl. 210-664.000.

Tanaka, Hiroshi, to Nippon Kogaku K. K. Projection optical apparatus. 4,668,077, 5-26-87, Cl. 355-30.000.

Tanaka, Hiroshi; and Fukehara, Shinsuke, to Sony Corporation. Method and apparatus for printing trimming instructions for developer of photographs. 4,694,354, 9-15-87, Cl. 358-296.000.

Tanaka, Hiroshi; Iwata, Hiromitsu; and Kakizaki, Yukio, to Nippon Kogaku K. K. Apparatus for conveying and inspecting a substrate. 4,716,299, 12-29-87, Cl. 250-571.000.

Tanaka, Hiroshi: *See*—
Asai, Eiichi; Tanaka, Hiroshi; and Higashi, Nobuaki, 4,641,267, Cl. 364-414.000.
Shimizu, Hisayuki; Anzai, Satoru; Tanaka, Hiroshi; and Suwa, Kyoichi, 4,666,273, Cl. 353-101.000.

Tanaka, Hirosi; and Saito, Tokukazu, to Fuji Photo Film Co., Ltd. Method of adjusting radiation image read-out condition. 4,638,162, 1-20-87, Cl. 250-327.200.
Tanaka, Hirosi; and Nakajima, Nobuyoshi, to Fuji Photo Film Co., Ltd. Method of adjusting radiation image read-out conditions. 4,682,028, 7-21-87, Cl. 250-327.200.
Tanaka, Hirosi. *See*—
Higashi, Nobuaki; Nakajima, Nobuyoshi; and Tanaka, Hirosi, 4,652,999, Cl. 364-414.000.
Tanaka, Hirotoshi. *See*—
Masuda, Noboru; Asano, Michio; Hayashi, Takehisa; Tanaka, Hirotoshi; and Masaki, Akira, 4,697,110, Cl. 307-475.000.
Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Aoyama, Shigeo; Tanno, Satoshi; and Kato, Kaoru, to Matsushita Electric Industrial Co., Ltd.; and Matsushita Refrigeration Company. Heat exchanger. 4,691,767, 9-8-87, Cl. 165-151.000.
Tanaka, Hiroyoshi; Suzuki, Mitsuo; and Ueda, Fujio, to Toray Industries, Inc. Process for producing ultra-high-tenacity polyvinyl alcohol fiber. 4,698,194, 10-6-87, Cl. 264-185.000.
Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Ando, Toshiaki; Nishiwaki, Humitoshi; and Aoyama, Shigeo, to Matsushita Electric Industrial Co. Ltd. Heat exchanger. 4,715,437, 12-29-87, Cl. 165-151.000.
Tanaka, Hiroyuki, to Kioritz Corporation. Grass trimmer. 4,655,032, 4-7-87, Cl. 56-12.700.
Tanaka, Hiroyuki; Kin, Seki; and Pu, Lyong S., to Fuji Xerox Co., Ltd. Novel squarylium compound and photoreceptor containing same. 4,700,001, 10-13-87, Cl. 564-307.000.
Tanaka, Hiroyuki; Takami, Eiichi; Mishima, Kyoichi; Higashi, Mitsunobu; and Kumasaki, Toshimi, to Mitsuboshi Belting Ltd. Timing belt with controlled friction backside ribs. 4,702,729, 10-27-87, Cl. 474-205.000.
Tanaka, Hiroyuki; Kin, Seki; and Pu, Lyong S., to Fuji Xerox Co., Ltd. Squarylium compound in an electrophotographic element. 4,707,427, 11-17-87, Cl. 430-59.000.
Tanaka, Hiroyuki. *See*—
Takahara, Atsushi; Ishikawa, Tomoyoshi; Tanaka, Hiroyuki; and Oku, Tamio, 4,679,004, Cl. 331-14.000.
Tanaka, Hisao. *See*—
Arita, Masanobu; Tanaka, Hisao; and Mogami, Yukio, 4,652,490, Cl. 428-347.000.
Yamamori, Hisayoshi; Inoue, Michio; Kawashima, Kazuto; and Tanaka, Hisao, 4,663,227, Cl. 428-315.700.
Yamamori, Hisayoshi; Inoue, Michio; Kawashima, Kazuto; and Tanaka, Hisao, 4,675,213, Cl. 427-244.000.
Tanaka, Hitoshi. *See*—
Hattori, Yoshiyuki; Nomura, Ken; Goshima, Takahiro; and Tanaka, Hitoshi, 4,705,492, Cl. 474-49.000.
Nakamura, Morio; Obayashi, Shigeji; Yamamoto, Takushi; Nakanishi, Toshikazu; Tanaka, Hitoshi; and Sakamoto, Yuji, 4,683,274, Cl. 526-216.000.
Tanaka, Honami. *See*—
Noguchi, Kosaku; Tanaka, Honami; Kumura, Yukimasa; Yamazaki, Heima; Kitajima, Eiji; and Sunada, Tomonori, 4,640,822, Cl. 422-111.000.
Tanaka, Hozumi. *See*—
Hamanaka, Kenjiro; Nozu, Shinsaku; Sato, Katsuharu; and Tanaka, Hozumi, 4,663,750, Cl. 369-45.000.
Nozu, Shinsaku; Sato, Katsuharu; Tanaka, Hozumi; and Hamanaka, Kenjiro, 4,658,391, Cl. 369-45.000.
Tanaka, Isao. *See*—
Kawashima, Chikashi; Ogasawara, Shinji; Tanaka, Isao; and Koga, Yasufumi, 4,652,592, Cl. 522-117.000.
Koishi, Toshio; Tanaka, Isao; Yasumura, Takashi; and Nishikawa, Yukitoshi, 4,687,295, Cl. 350-96.340.
Konishi, Keisuke; and Tanaka, Isao, 4,654,911, Cl. 8-158.000.
Yasumura, Takashi; Koishi, Toshio; and Tanaka, Isao, 4,642,326, Cl. 525-153.000.
Tanaka, Itsuo. *See*—
Goto, Tokuju; Tanaka, Itsuo; Sando, Yoshikazu; and Ishidoshiro, Toshi, 4,691,137, Cl. 313-30.000.
Tanaka, Jouji; Watanabe, Tetunobu; Tanimoto, Yo-hiji; and Okumura, Minoru, to Nitsuko Limited; and Nippon Telegraph and Telephone Corporation. Key telephone system with means for operatively connecting another key telephone systems. 4,64 ,337, 2-3-87, Cl. 379-162.000.
Tanaka, Jun; and Nakayasu, Kazuo, to Showa Denki Kabushiki Kaisha. Process for production of hydantoin derivatives. 4,672,127, 6-9-87, Cl. 548-308.000.
Tanaka, Junsuke; and Matsumoto, Kenji, to Kuraray Co., Ltd. Process for continuous production of ethylene-vinyl acetate copolymer. 4,657,994, 4-14-87, Cl. 526-68.000.
Tanaka, Kanji; and Arai, Masashi, to Sanyo Electric Co., Ltd.; and Tokyo Sanyo Electric Co., Ltd. AM stereo receiver. 4,707,856, 11-17-87, Cl. 381-15.000.
Tanaka, Kanou; Konishi, Motofumi; Ando, Yoshio; Iwaya, Toshio; Kotera, Masahide; Hashimoto, Norio; Sugita, Yasutoshi; Sano, Yoshitaka; and Ono, Satoshi, to Canon Kabushiki Kaisha. Image processing system. 4,658,299, 4-14-87, Cl. 358-256.000.
Tanaka, Kanuza. *See*—
Clanton, Marlene K.; Kapec, Jeffrey; and Tanaka, Kanuza, 4,665,917, Cl. 128-334.00R.
Clanton, Marlene K.; Kapec, Jeffrey; and Tanaka, Kanuza, 4,703,887, Cl. 227-19.000.
Tanaka, Katsuhiko, to Nippon Seiko Kabushiki Kaisha. Motor unit. 4,701,651, 10-20-87, Cl. 310-90.000.
Tanaka, Katsuhiko; and Fukumoto, Hiroshi, to Canon Kabushiki Kaisha. Toner, charge-imparting material and composition containing triazine type compound. 4,710,443, 12-1-87, Cl. 430-106.600.
Tanaka, Katsuhiko. *See*—
Fukumoto, Hiroshi; Tanaka, Katsuhiko; and Imai, Eiichi, 4,657,838, Cl. 430-110.000.
Fukumoto, Hiroshi; Tanaka, Katsuhiko; and Kawagishi, Yoji, 4,673,631, Cl. 430-110.000.
Ikeda, Takeshi; Imai, Eiichi; Fukumoto, Hiroshi; Tanaka, Katsuhiko; Suematsu, Koshi; Urawa, Motoo; and Takenouchi, Masanori, 4,663,263, Cl. 430-110.000.
Murata, Michihiro; Tanaka, Katsuhiko; and Seto, Hiroyuki, 4,691,104, Cl. 250-338.000.
Tanaka, Kazuhiko, to Nippon Thompson Co., Ltd. Roller bearing for infinite rectilinear motion. 4,715,729, 12-29-87, Cl. 384-44.000.
Tanaka, Kazuhiro; Yamamoto, Yasuo; Hanaoka, Katsumi; and Hirai, Masatake, to Allied Corporation. Transformer with toroidal magnetic core. 4,639,707, 1-27-87, Cl. 336-185.000.
Tanaka, Kazuhiro. *See*—
Hanaoka, Katsumi; Yamamoto, Yasuo; Aru, Kazuhiro; and Tanaka, Kazuhiro, 4,646,803, Cl. 150-52.00R.
Tanaka, Kazuki. *See*—
Tada, Hideki; Ito, Michio; Tanaka, Kazuki; Kume, Nobuyuki; Takei, Tetsuya; and Kisu, Hiroki, 4,674,865, Cl. 355-15.000.
Tsuchiya, Hiroaki; Tanaka, Kazuki; and Osawa, Keishi, 4,680,669, Cl. 361-230.000.
Tanaka, Kazumi. Dot matrix printer head. 4,687,354, 8-18-87, Cl. 400-121.000.
Tanaka, Kazumi. *See*—
Nogi, Tatsuo; Iwami, Tomonori; and Tanaka, Kazumi, 4,678,581, Cl. 210-500.230.
Tanaka, Kazumoto; Mashimo, Tohru; Sato, Osamu; and Kobayashi, Toyohiko, to Mazda Motor Corporation. Control method for drilling apparatus which makes use of a final drilling pattern transformed from primary and secondary patterns. 4,639,868, 1-27-87, Cl. 364-420.000.
Tanaka, Kazuna. *See*—
Blatherwick, William J.; Hamilton, Leslie; Holewinski, Robert D.; Shen, Virginia A.; Kapec, Jeffrey; and Tanaka, Kazuna, 4,693,684, Cl. 433-90.000.
Tanaka, Kazunobu; and Kobayashi, Michio, to Daicel Chemical Industries, Ltd. Heat- and impact-resistant resin composition. 4,644,034, 2-17-87, Cl. 525-68.000.
Tanaka, Kazunobu; and Mori, Kyozo, to Daicel Chemical Industries, Ltd. Highly conductive styrenic resin composition. 4,678,602, 7-7-87, Cl. 252-513.000.
Tanaka, Kazuo; and Tajima, Akira, to Canon Kabushiki Kaisha. Ultrasmall size zoom lens. 4,682,860, 7-28-87, Cl. 350-423.000.
Tanaka, Kazuo, to Canon Kabushiki Kaisha. Camera system with lens coupling member. 4,710,007, 12-1-87, Cl. 354-286.000.
Tanaka, Kazuo. *See*—
Fujiwara, Akihiro; and Tanaka, Kazuo, 4,643,556, Cl. 354-406.000.
Fukuda, Yasushi; Oka, Tadafumi; and Tanaka, Kazuo, 4,698,810, Cl. 371-38.000.
Kato, Masatake; Ikemori, Keiji; Tanaka, Tsuaefumi; and Tanaka, Kazuo, 4,702,567, Cl. 350-427.000.
Tanaka, Kazushi. *See*—
Isobe, Yukihiro; Tanaka, Kazushi; Nishimatsu, Masaharu; Shinoura, Osamu; and Kubota, Yuichi, 4,670,340, Cl. 428-339.000.
Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobunori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masaharu; Isobe, Yukihiro; Tanaka, Kazushi; and Shinoura, Osamu, 4,708,909, Cl. 428-425.900.
Tanaka, Kazuto; Kakizawa, Haruo; and Nagata, Kouichi, to Fuji Photo Optical Co., Ltd. Optical instrument. 4,639,099, 1-27-87, Cl. 350-538.000.
Tanaka, Keiji; Honryo, Hatsuo; and Koga, Takeri, to Fuji Photo Film Co., Ltd. Device for continuously cutting and winding a web. 4,637,567, 1-20-87, Cl. 242-56.00R.
Tanaka, Keiji. *See*—
Ohara, Katsunobu; Tanaka, Keiji; Ando, Yujiro; and Moriyama, Inao, 4,675,261, Cl. 430-53.000.
Tanaka, Kenichi. *See*—
Imai, Isamu; Oshima, Kazuo; Tanaka, Kenichi; and Inada, Norio, 4,708,185, Cl. 152-451.000.
Tanaka, Kenji, to Driden Anstalt. Coupling constriction of a frame of spectacles and a coupling holder. 4,674,852, 6-23-87, Cl. 351-90.000.
Tanaka, Kenji. *See*—
Endo, Hideki; Hashimoto, Kazuto; Tanaka, Kenji; Matsumoto, Takeshi; Igi, Keishiro; Okamura, Takayuki; Taniguchi, Shunro; Ishii, Masao; Murata, Yoshifumi; and Yokota, Shinichi, 4,657,973, Cl. 525-67.000.
Oonishi, Akiyoshi; Tanaka, Kenji; Tadeka, Makoto; Konno, Kazuhiko; and Saito, Masaki, 4,694,102, Cl. 562-426.000.
Tanaka, Kentaro; Kondo, Eiji; Matsumoto, Kouichi; and Tsuji, Naoki, to Shionogi & Co., Ltd. Carbapenem-type antibiotics. 4,647,408, 3-3-87, Cl. 540-350.000.
Tanaka, Kentaro. Antianaemic composition and a process for producing the same. 4,659,697, 4-21-87, Cl. 514-23.000.
Tanaka, Kentaro. *See*—
Wakisaka, Yoshiharu; Uo, Junko; Matsumoto, Kouichi; Ohodaira, Osamu; and Tanaka, Kentaro, 4,713,241, Cl. 424-93.000.
Tanaka, Kenzi; Gomi, Koichi; Fukuda, Tamotsu; and Hayashi, Masataka, to Toyota Jidosha Kabushiki Kaisha. Fuel injection system for an internal combustion engine. 4,671,240, 6-9-87, Cl. 123-463.000.

Tanaka, Kimio: *See*—
Ikebe, Masaru; Satoh, Takateru; and Tanaka, Kimio, 4,671,469, Cl. 242-198.000.
Shiba, Haruo; Sato, Takateru; Tanaka, Kimio; and Sakata, Yoshiya, 4,688,128, Cl. 360-132.000.

Tanaka, Kinzi; Tagawa, Toru; Tanimoto, Yoshiji; and Okumura, Minoru, to Nitsuko Limited, and Nippon Telegraph and Telephone Corporation. Extension ringing arrangement key telephone system. 4,660,219, 4-21-87, Cl. 379-164.000.

Tanaka, Kiyoharu: *See*—
Ohno, Akio; Tanaka, Kiyoharu; Takeda, Kenji; Yoshinaga, Kenji; Oguri, Shinichi; and Takada, Yusaku, 4,646,679, Cl. 118-691.000.

Tanaka, Kiyoshi; Koga, Yoshihiro; Saeki, Masaru; Kaneko, Tetsuya; and Kawakita, Tetsuya, to Ajinomoto Co., Inc. Method for the separation of a basic amino acid from its fermentation broth. 4,663,048, 5-5-87, Cl. 210-638.000.

Tanaka, Kiyoshi; Saeki, Masaru; Matsuishi, Tsutomu; Koga, Yoshihiro; and Kawakita, Tetsuya, to Ajinomoto Co., Inc. Process for the separation of a basic amino acid from a fermentation broth using cation exchange resins. 4,714,767, 12-22-87, Cl. 548-344.000.

Tanaka, Kiyoshi: *See*—
Imaizumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko; Murotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka, Kiyoshi; Takano, Shuntaro; and Saikawa, Isamu, 4,656,287, Cl. 548-194.000.

Tanaka, Kohbun, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Buckle apparatus. 4,646,400, 3-3-87, Cl. 24-632.000.

Tanaka, Koichi; and Itoh, Satoshi, to Kabushiki Kaisha Toshiba. Digital phase-locked loop circuit. 4,715,050, 12-22-87, Cl. 375-111.000.

Tanaka, Koichi: *See*—
Ogura, Takashi; Tanaka, Koichi; Taniguchi, Koji; Yoshida, Masaru; and Mikami, Akiyoshi, 4,707,419, Cl. 428-690.000.
Shinohara, Nobutaka; Hirakawa, Shuji; Minami, Akihiko; and Tanaka, Koichi, 4,646,154, Cl. 358-183.000.
Taniguchi, Koji; Tanaka, Koichi; and Ogura, Takashi, 4,672,266, Cl. 313-509.000.

Tanaka, Koji: *See*—
Sakai, Yasushi; Tanaka, Koji; Saito, Michio; and Kiyohara, Akio, 4,684,711, Cl. 528-86.000.

Tanaka, Kojiro: *See*—
Namiki, Masayuki; Kamiya, Masaaki; Kojima, Yoshikazu; and Tanaka, Kojiro, 4,639,755, Cl. 357-28.000.

Tanaka, Kouichi; Kuwajima, Takeshi; and Amazawa, Kiyoshi, to Clarion Co., Ltd. Circuit arrangement capable of adjusting a threshold level of a differential transistor circuit. 4,634,902, 1-6-87, Cl. 307-542.000.

Tanaka, Kouichi; Kuwajima, Takeshi; and Amazawa, Kiyoshi, to NEC Corporation; and Clarion Co., Ltd. Demodulator comprising an indicator circuit for use in common to cancellation of a pilot signal and an indication of a reception state. 4,680,792, 7-14-87, Cl. 381-12.000.

Tanaka, Kouzou: *See*—
Yoshida, Takeshi; Honda, Takayasu; Kitazume, Shunosuke; and Tanaka, Kouzou, 4,637,653, Cl. 297-334.000.

Tanaka, Kozo: *See*—
Hosonuma, Sin; Fujio, Junichi; Tanaka, Kozo; Suzuki, Harue; and Baba, Kenichi, 4,643,529, Cl. 350-337.000.

Tanaka, Kunihiko; Ochiai, Hideo; and Ikenoya, Yasuo, to Honda Giken Kogyo Kabushiki Kaisha. Cooling system for a belt type transmission. 4,671,781, 6-9-87, Cl. 474-93.000.

Tanaka, Kunihiko: *See*—
Hanabata, Makoto; Furuta, Akihiro; Yasui, Seimei; and Tanaka, Kunihiko, 4,696,886, Cl. 430-192.000.
Watanabe, Masaki; Yamamoto, Hitoshi; Matsuoka, Yoshinori; and Tanaka, Kunihiko, 4,678,053, Cl. 180-210.000.

Tanaka, Kunimaro; and Ozaki, Minoru, to Mitsubishi Denki Kabushiki Kaisha. PCM recording and reproducing apparatus. 4,701,812, 10-20-87, Cl. 360-32.000.

Tanaka, Kunimaro: *See*—
Ozaki, Minoru; and Tanaka, Kunimaro, 4,703,494, Cl. 375-19.000.

Tanaka, Kuninobu: *See*—
Ishikawa, Fumio; and Tanaka, Kuninobu, 4,645,946, Cl. 307-261.000.

Tanaka, Kunio: *See*—
Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,635,185, Cl. 364-191.000.
Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,644,460, Cl. 364-171.000.
Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,654,651, Cl. 340-731.000.
Kishi, Hajimu; and Tanaka, Kunio, 4,659,265, Cl. 409-84.000.
Kishi, Hajimu; Tanaka, Kunio; and Takegahara, Takashi, 4,663,705, Cl. 364-191.000.
Kishi, Hajimu; Tanaka, Kunio; and Matsumura, Teruyuki, 4,669,041, Cl. 364-171.000.
Kishi, Hajimu; and Tanaka, Kunio, 4,689,750, Cl. 364-474.000.
Kishi, Hajimu; and Tanaka, Kunio, 4,692,873, Cl. 364-474.000.
Kishi, Hajimu; Seki, Masaki; and Tanaka, Kunio, 4,697,249, Cl. 364-900.000.
Kishi, Hajimu; Matsumura, Teruyuki; and Tanaka, Kunio, 4,703,441, Cl. 364-526.000.
Nakaya, Keiichi; Tanaka, Kunio; and Yokoyama, Koichi, 4,652,437, Cl. 423-421.000.
Nakaya, Keiichi; and Tanaka, Kunio, 4,693,872, Cl. 423-164.000.
Nakaya, Keiichi; and Tanaka, Kunio, 4,695,445, Cl. 423-635.000.
Nakaya, Keiichi; Tanaka, Kunio; Kanno, Fukuo; and Kobayashi, Mitaka, 4,698,379, Cl. 523-513.000.
Takahashi, Shigeru; Tanaka, Makoto; and Tanaka, Kunio, 4,656,080, Cl. 428-215.000.
Yamada, Yoshifumi; Tanaka, Kunio; and Abe, Zenwemon, 4,651,098, Cl. 324-309.000.

Tanaka, M.; Kobayashi, Kazuhiro; and Koboshi, Shigeharu, to Konishiroku Photo Industry Co., Ltd. Processing solution for light-sensitive silver halide photographic material comprises metal complexes of large polyamine derivatives. 4,702,998, 10-27-87, Cl. +430-430.000.

Tanaka Machine Industries Co., Ltd.: *See*—
Anno, Nobuo; Iwai, Itsuo; and Kamezaki, Takashi, 4,674,996, Cl. 474-10.000.
Ichihara, Eiichi; and Iwai, Itsuo, 4,709,667, Cl. 123-90.340.

Tanaka, Makoto: *See*—
Kigasawa, Kazuo; Ohtani, Hideaki; Tanaka, Makoto; and Hayashida, Shigeru, 4,695,465, Cl. 424-449.000.
Koike, Kiichi; Suzuki, Yoshie; Yoshinaka, Minoru; Okabe, Mitsuo; and Tanaka, Makoto, 4,664,994, Cl. 429-163.000.
Murayama, Sadamitsu; and Tanaka, Makoto, 4,680,221, Cl. 428-246.000.
Okuda, Kazuhiro; Tanaka, Makoto; and Kuramitsu, Wataru, 4,641,830, Cl. 271-274.000.
Takahashi, Shigeru; Tanaka, Makoto; and Tanaka, Kunio, 4,656,080, Cl. 428-215.000.

Tanaka, Mamoru: *See*—
Honjo, Takeshi; Takahata, Naomi; Tanaka, Mamoru; and Umeda, Yoshihito, 4,667,951, Cl. 271-259.000.

Tanaka, Mansei: *See*—
Shiraishi, Motoo; Tanaka, Mansei; Nakamura, Mitoru; and Sato, Koichi, 4,659,255, Cl. 405-216.000.

Tanaka, Masaaki: *See*—
Ogita, Akira; and Tanaka, Masaaki, 4,705,386, Cl. 355-4.000.

Tanaka, Masahiro: *See*—
Endo, Hiroshi; Yagi, Toshio; Tanaka, Masahiro; and Suzuki, Takanori, 4,689,351, Cl. 521-60.000.
Endo, Hiroshi; Arai, Masakazu; Nishikawa, Shigeo; Sato, Masanori; Tanaka, Masahiro; Nagasaki, Kunikazu; and Matsuno, Shigeki, 4,698,191, Cl. 264-50.000.
Watarai, Hisao; Tanaka, Masahiro; Masuda, Shuji; Suzuki, Kenji; and Masumoto, Tsuyoshi, 4,636,806, Cl. 346-1.100.

Tanaka, Masaki; and Ichinohe, Shoji, to Shin-Etsu Chemical Co., Ltd. Fabric-finishing agent containing a novel organopolysiloxane. 4,680,366, 7-14-87, Cl. 528-27.000.

Tanaka, Masaki: *See*—
Okada, Fumio; Tanaka, Masaki; and Ohashi, Hiroshi, 4,677,178, Cl. 528-34.000.

Tanaka, Masami, to Showa Precision Machinery Co., Ltd. Starting device with air motor for internal combustion engines. 4,694,791, 9-22-87, Cl. 123-179.00F.

Tanaka, Masanobu; and Tani, Takeru, to Sony Corporation. Frequency and volume display for a receiver. 4,661,994, 4-28-87, Cl. 455-157.000.

Tanaka, Masanori; Maehara, Atsushi; and Kanai, Junichi, to Hokuetsu Industries Co., Ltd. Rotary machine having screw rotor assembly. 4,679,996, 7-14-87, Cl. 418-201.000.

Tanaka, Masanori, to Hosiden Electronics Co., Ltd. Socket of electrostatic protection type. 4,711,506, 12-8-87, Cl. 439-108.000.

Tanaka, Masanori: *See*—
Kobayashi, Osamu; Akagawa, Masaki; Tanaka, Masanori; Ishi, Jun; and Yamagishi, Ryoji, 4,706,202, Cl. 364-479.000.
Usui, Koichi; Sato, Teiji; and Tanaka, Masanori, 4,681,749, Cl. 423-326.000.

Tanaka, Masao; Watanabe, Okosu; and Inada, Koichi, to Fujikura Ltd. Apparatus for separating or synthesizing light signals. 4,702,548, 10-27-87, Cl. 350-96.150.

Tanaka, Masao: *See*—
Hiai, Athuhiko; Wakimura, Kazuo; and Tanaka, Masao, 4,656,013, Cl. 423-89.000.
Uchiyama, Koji; Nakazawa, Akira; and Tanaka, Masao, 4,661,393, Cl. 428-200.000.

Tanaka, Masaru; Hara, Kiyoaki; and Yokoyama, Issei, to Horiba, Ltd. Apparatus for measuring luminescence lifetime. 4,662,748, 5-5-87, Cl. 356-317.000.

Tanaka, Masataka; Ohto, Masao; Sekine, Tetsuo; Isobe, Koji; and Maruyama, Masaru, to Hakko Electric Machine Works Co., Ltd. Biopsy needle set. 4,643,196, 2-17-87, Cl. 128-753.000.

Tanaka, Masato, to Sony Corporation. Signal recording and reproducing apparatus. 4,665,443, 5-12-87, Cl. 360-7.000.

Tanaka, Masato; and Himeno, Takuji, to Sony Corporation. Frequency modulation coding methods with reduced transition intervals. 4,672,363, 6-9-87, Cl. 340-347.0DD.

Tanaka, Masato; Iri, Shinsuke; and Shiozaki, Tomoharu, to Kanzaki Paper Manufacturing Company Limited. Pressure sensitive manifold paper. 4,688,060, 8-18-87, Cl. 503-214.000.

Tanaka, Masato; and Ohtsuka, Kanji, to Director-General of Agency of Industrial Science and Technology; and Nissan Chemical Industries, Ltd. Method for the preparation of phenyl pyruvic acid. 4,689,431, 8-25-87, Cl. 562-406.000.

Tanaka, Masato: *See*—
Osawa, Eiichi; Tanaka, Masato; Yoshizawa, Mamoru; Nakai, Jun; and Kojima, Yuichi, 4,697,212, Cl. 360-48.000.

Tanaka, Masayuki: *See*—
Mashimo, Satoshi; Fujita, Kunihiro; Tanaka, Masayuki; Yamaguchi, Yoshio; and Takeda, Kazuhiro, 4,715,176, Cl. 57-251.000

Tanaka, Mikihiko: *See*—
Amemiya, Kunio; Tanaka, Mikihiko; Kamemaru, Kenichi; and Nakagawa, Kiyoshi, 4,636,424, Cl. 428-198.000.
Tanaka, Mikio: *See*—
Doki, Yoshikuni; Fujiwara, Masatoshi; Shiga, Tatsuhide; Shono, Yohsuke; Tanaka, Mikio; and Tsuruoka, Yoshihiro, 4,649,359, Cl. 335-222.000.
Tanaka, Minako: *See*—
Fujiwara, Masami; Fukuda, Hidenori; and Tanaka, Minako, 4,670,185, Cl. 252-311.000.
Tanaka, Minoru, to Yamatake-Honeywell Co., Ltd. Control system using combined closed loop and duty cycle control functions. 4,634,046, 1-6-87, Cl. 236-46.00F.
Tanaka, Minoru, to NEC Corporation. Automatic call transfer system capable of carrying out call transfer without manual operation. 4,658,416, 4-14-87, Cl. 379-57.000.
Tanaka, Minoru; and Yonehata, Yuzuru, to Mitsubishi Denki Kabushiki Kaisha. Snubber circuit for GTO thyristor. 4,678,932, 7-7-87, Cl. 307-633.000.
Tanaka, Minoru: *See*—
Fukushima, Eiji; Tanaka, Minoru; Sanada, Kazuo; and Chigira, Sadao, 4,707,075, Cl. 350-96.260.
Minagawa, Yukinori; Tanaka, Minoru; Matsuo, Keiko; and Shimizu, Etsuo, 4,689,277, Cl. 428-690.000.
Minematsu, Yoshihiko; Tanaka, Minoru; Yamamoto, Masayuki; and Sakamoto, Kenichiro, 4,684,313, Cl. 414-735.000.
Satoh, Ryohei; Oshima, Muneo; Tanaka, Minoru; Sakaguchi, Suguru; Murata, Akira; and Hirota, Kazuo, 4,673,772, Cl. 174-52.0FP.
Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.
Terahara, Akira; and Tanaka, Minoru, 4,695,587, Cl. 514-510.000.
Tanaka, Mitsuaki: *See*—
Kitamura, Masatsugu; Tanaka, Mitsuaki; and Takekura, Hiroyuki, 4,673,916, Cl. 340-347.05H.
Tanaka, Mitsuo: *See*—
Nakamura, Koichi; and Tanaka, Mitsuo, 4,699,263, Cl. 198-435.000.
Tanaka, Morimasa; and Kyoden, Tatsuo, to Ichikoh Industries Limited. Remote-control switch for motor-driven automotive mirror. 4,698,463, 10-6-87, Cl. 200-5.00R.
Tanaka, Morimasa; and Ito, Shinichiro, to Ichikoh Industries Limited. Control switch for motor driven remote control mirror in vehicle. 4,698,464, 10-6-87, Cl. 200-5.00R.
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, to Wada Pure Chemical Ind., Ltd.; and Takeda Chemical Industries, Ltd. Copolymer and method for producing the same. 4,677,191, 6-30-87, Cl. 528-361.000.
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, to Waco Pure Chemical Industries, Ltd.; and Takeda Chemical Industries, Ltd. Polymer and its production. 4,683,288, 7-28-87, Cl. 528-361.000.
Tanaka, Motoaki: *See*—
Itoh, Kenichi; Noguki, Genji; Tanaka, Motoaki; and Ohba, Hitoshi, 4,694,053, Cl. 526-74.000.
Micetich, Ronald G.; Yamabe, Shigeru; Tanaka, Motoaki; Yamazaki, Tomio; Ishida, Naobumi; and Kajitani, Makoto, 4,668,514, Cl. 424-114.000.
Tanaka, Motoharu: *See*—
Nakamura, Hitoshi; Machida, Hazime; Tanaka, Motoharu; Watada, Atsuyuki; Omi, Fumiya; and Koinuma, Nobuyuki, 4,670,322, Cl. 428-172.000.
Nakamura, Hitoshi; Machida, Hazime; Tanaka, Motoharu; Watada, Atsuyuki; Omi, Fumiya; and Koinuma, Nobuyuki, 4,670,323, Cl. 428-172.000.
Tanaka, Naoki: *See*—
Iijima, Hitoshi; Tanaka, Naoki; and Ikeuchi, Masaki, 4,671,075, Cl. 62-196.100.
Kawaguchi, Toshiyuki; Katsukawa, Hiroyuki; Nakanishi, Kazumi; and Tanaka, Naoki, 4,648,131, Cl. 455-606.000.
Tanaka, Nobuyoshi: *See*—
Hashimoto, Seiji; Kinoshita, Takao; and Tanaka, Nobuyoshi, 4,712,135, Cl. 358-213.220.
Kuwayama, Tetsuro; Tanaka, Nobuyoshi; and Hashimoto, Seiji, 4,668,975, Cl. 358-44.000.
Ohno, Tadahiro; and Tanaka, Nobuyoshi, 4,686,554, Cl. 357-30.000.
Tanaka, Noriatsu: *See*—
Miyajima, Tamotsu; Tanaka, Noriatsu; and Saito, Nobuto, 4,687,791, Cl. 523-161.000.
Tanaka, Norihiko: *See*—
Takeda, Takao; Yamazaki, Hitoshi; Taniguchi, Yoshiteru; Tanaka, Norihiko; Ito, Hiroshi; Uchida, Minoru; and Imai, Jun, 4,703,227, Cl. 313-634.000.
Tanaka, Norio: *See*—
Baba, Masatoshi; Tanaka, Norio; Ikai, Takasi; Nawamaki, Tsutomu; and Matsunaga, Masaji, 4,643,757, Cl. 71-86.000.
Tanaka, Norito, to Toyo Lint Free Co., Ltd. Dust-free garment for clean room. 4,677,696, 7-7-87, Cl. 2-84.000.
Tanaka, Osami; Tagami, Tomoyuki; and Tsunoda, Kazuhiko, to Honda Giken Kogyo Kabushiki Kaisha. Frame-rear suspension assembly for a motorcycle and the like. 4,673,053, 6-16-87, Cl. 180-227.000.
Tanaka, Osamu, to Minolta Camera Kabushiki Kaisha. Diaphragm control attachment. 4,666,277, 5-19-87, Cl. 354-270.000.
Tanaka, Osamu: *See*—
Hirosaki, Botaro; and Tanaka, Osamu, 4,639,939, Cl. 375-118.000.
Mikuni, Yoshio; Tanaka, Osamu; and Matsuda, Kunikazu, 4,688,501, Cl. 112-241.000.
Tanaka, Ryoichi: *See*—
Ishida, Hideo; Tanaka, Ryoichi; and Atsumi, Katsuhito, 4,700,172, Cl. 340-81.00R.
Tanaka, Ryuichi; and Ishii, Akira, to Nippon Air Brake Co., Ltd. Fluid pressure control apparatus for reducing swing or fall of vehicle body due to braking during backwards running of vehicle. 4,709,968, 12-1-87, Cl. 303-6.00C.
Tanaka, Ryuichi: *See*—
Morita, Yousuke; Seguchi, Ladao; Kojima, Takuji; and Tanaka, Ryuichi, 4,668,714, Cl. 523-136.000.
Tanaka, Ryutatsu: *See*—
Takashima, Kiyoshi; Suzuki, Isao; Yoshida, Masashi; Tanaka, Ryutatsu; Masumitsu, Noriyuki; Kinoshita, Kazuhiro; and Ishii, Hiromi, 4,686,081, Cl. 420-29.000.
Tanaka, Sadaaki; and Ushijima, Hisashi, to Sony Corporation. Automatic beam current control system for television camera. 4,638,363, 1-20-87, Cl. 358-219.000.
Tanaka, Satoru: *See*—
Minami, Norio; Mathukura, Masayuki; Ueda, Koichiro; Tanaka, Satoru; and Igarashi, Toshiji, 4,650,798, Cl. 514-227.000.
Tanaka, Satoshi; and Imaizumi, Haruo, to Junkosha Co., Ltd. Corrosive liquid leak detecting sensor. 4,710,353, 12-1-87, Cl. 422-68.000.
Tanaka, Satoshi: *See*—
Akiyama, Kazunori; Tsunoda, Arihiro; and Tanaka, Satoshi, 4,678,178, Cl. 271-242.000.
Kobayashi, Satoru; and Tanaka, Satoshi, 4,677,373, Cl. 324-65.0LR.
Tanaka, Seietsu; and Shibata, Tomiichi, to Oki Electric Industry Co. Ltd. Method for manufacturing IC plastic package with window. 4,663,833, 5-12-87, Cl. 29-588.000.
Tanaka, Seietsu, to Oki Electric Industry Co., Ltd. Erasable and programable read only memory devices. 4,710,797, 12-1-87, Cl. 357-74.000.
Tanaka, Seiichi: *See*—
Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, 4,636,649, Cl. 250-574.000.
Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, 4,638,304, Cl. 340-500.000.
Kimura, Tetsuo; Tanaka, Seiichi; and Suzuki, Takashi, 4,658,243, Cl. 340-505.000.
Kimura, Tetsuo; and Tanaka, Seiichi, 4,668,939, Cl. 340-521.000.
Tanaka Seiki Co., Ltd.: *See*—
Takeda, Kyoji; and Kitai, Akira, 4,690,346, Cl. 242-56.00R.
Tanaka, Seiya, to Aisin Seiki Kabushiki Kaisha. Viscous fluid coupling. 4,702,360, 10-27-87, Cl. 192-58.00B.
Tanaka, Shigemori, to Canon Kabushiki Kaisha. Multilayer electrophotographic photosensitive element having charge transport layer containing powdered material having specified refractive index. 4,675,262, 6-23-87, Cl. 430-58.000.
Tanaka, Shigeru, to Kabushiki Kaisha Toshiba. Power converter apparatus and control method thereof. 4,663,702, 5-5-87, Cl. 363-65.000.
Tanaka, Shigeru, to Kabushiki Kaisha Toshiba. Control method for cycloconverter and control apparatus therefor. 4,670,826, 6-2-87, Cl. 363-10.000.
Tanaka, Shigeru, to Kabushiki Kaisha Toshiba. Apparatus for operating cycloconverters in parallel fashion. 4,673,823, 6-16-87, Cl. 307-11.000.
Tanaka, Shigeru, to Kabushiki Kaisha Toshiba. Delta-connected circulating current cycloconverter apparatus. 4,674,026, 6-16-87, Cl. 363-160.000.
Tanaka, Shigeru; and Takagi, Isamu, to Kabushiki Kaisha Toshiba. High voltage cable assembly having reduced stray capacitance. 4,684,766, 8-4-87, Cl. 174-115.000.
Tanaka, Shigeru: *See*—
Sada, Takeshi; Kato, Hidetoshi; Shibata, Hiroshi; Mori, Kazumasa; Mayumi, Nobuo; Sato, Hirohide; Akita, Yoshio; and Tanaka, Shigeru, 4,665,354, Cl. 320-64.000.
Yano, Naomichi; Ito, Hajime; and Tanaka, Shigeru, 4,681,154, Cl. 165-47.000.
Tanaka, Shigetaka, to Ricoh Company, Ltd. Equalization system tuning device which updates equalizer coefficients based on selected decision regions. 4,679,208, 7-7-87, Cl. 375-13.000.
Tanaka, Shinichi: *See*—
Fujimura, Toshiaki; Katoh, Yoshio; Imahashi, Satoshi; Seto, Koichi; and Tanaka, Shinichi, 4,699,859, Cl. 430-18.000.
Mukai, Toshiharu; and Tanaka, Shinichi, 4,688,202, Cl. 369-44.000.
Ueno, Shigeto; Ohnishi, Masanori; Nakamura, Yuji; and Tanaka, Shinichi, 4,639,814, Cl. 360-130.100.
Tanaka, Shinichiro: *See*—
Aoki, Keiji; and Tanaka, Shinichiro, 4,675,821, Cl. 364-431.080.
Tanaka, Shinsaku; and Yoshimura, Toshio, to Tanashin Denki Co., Ltd. Tape recorder. 4,639,800, 1-27-87, Cl. 360-90.000.
Tanaka, Shinsaku; and Kido, Kunio, to Tanashin Denki Co., Ltd. Reel receiving device. 4,709,871, 12-1-87, Cl. 242-68.300.
Tanaka, Shinya, to Canon Kabushiki Kaisha. Stereoscopic microscope including a rotatable light beam distributing means with a surface having distributing and non-distributing areas. 4,640,588, 2-3-87, Cl. 350-516.000.
Tanaka, Shinya; and Sato, Masaru, to Tokyo Kogaku Kikai Kabushiki Kaisha. Fail-safe laser apparatus including main and safety shutters for laser. 4,663,520, 5-5-87, Cl. 250-205.000.
Tanaka, Shizuo: *See*—
Nakane, Mototaka; and Tanaka, Shizuo, 4,640,400, Cl. 192-70.250.
Tanaka, Shoji, to Fujitsu Limited. Printed circuit board laminating apparatus. 4,680,079, 7-14-87, Cl. 156-353.000.

Tanaka, Shozo: *See*—
Honma, Yoshihiro; Kawamoto, Fumiaki; and Tanaka, Shozo, 4,661,208, Cl. 203-15.000.

Tanaka, Shuichi: *See*—
Nagano, Jun; and Tanaka, Shuichi, 4,642,686, Cl. 358-107.000.

Tanaka, Sigeto: *See*—
Tsuzuki, Kiyoshi; Tanaka, Sigeto; and Take, Yoshiaki, 4,715,527, Cl. 229-1.50B.

Tanaka, Sinya: *See*—
Koizumi, Hiroshi; Kijima, Masatsugu; and Tanaka, Sinya, 4,692,924, Cl. 372-30.000.

Tanaka, Sumio; Saito, Shinji; and Atsumi, Shigeru, to Kabushiki Kaisha Toshiba. Semiconductor read only memory device with improved access time. 4,692,902, 9-8-87, Cl. 365-210.000.

Tanaka, Sumio; Saito, Shinji; Atsumi, Shigeru; and Ohtsuka, Nobuaki, to Kabushiki Kaisha Toshiba. Semiconductor memory device. 4,694,429, 9-15-87, Cl. 365-189.000.

Tanaka, Sumio: *See*—
Narita, Fujiaki; and Tanaka, Sumio, 4,636,879, Cl. 360-72.200.

Tanaka, Susumu: *See*—
Sato, Masaaki; Tanaka, Susumu; Kaertyama, Kyoji; and Suda, Yoshio, 4,691,005, Cl. 528-380.000.

Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Vehicle suspension apparatus. 4,639,014, 1-27-87, Cl. 280-707.000.

Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Vehicle suspension apparatus. 4,640,526, 2-3-87, Cl. 280-707.000.

Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Vehicle suspension apparatus. 4,669,749, 6-2-87, Cl. 280-707.000.

Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Takizawa, Shozo; Kumagai, Naotake; and Tatemoto, Minoru, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Vehicle suspension apparatus. 4,669,750, 6-2-87, Cl. 280-707.000.

Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Vehicle suspension apparatus. 4,697,237, 9-29-87, Cl. 364-424.000.

Tanaka, Tadao: *See*—
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Kumagai, Naotake; and Tatemoto, Minoru, 4,673,193, Cl. 280-707.000.
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,695,074, Cl. 280-707.000.

Tanaka, Tadashi: *See*—
Kurokawa, Kazuo; and Tanaka, Tadashi, 4,639,854, Cl. 364-157.000.

Tanaka, Takaharu; Higuchi, Naoki; Saito, Masayuki; and Hashimoto, Masaki, to Suntory Limited. N-substituted glutamic acid derivative and process for production and use thereof. 4,701,210, 10-20-87, Cl. 71-98.000.

Tanaka, Takaharu; Saitoh, Masayuki; Hashimoto, Masaki; and Higuchi, Naoki, to Suntory Limited. N-acylpyrrolidine derivative and synthesis and use thereof. 4,701,465, 10-20-87, Cl. 514-423.000.

Tanaka, Takaharu: *See*—
Matsuo, Hisayuki; Mizuno, Kensaku; and Tanaka, Takaharu, 4,650,763, Cl. 435-224.000.
Matsuo, Hisayuki; Mizuno, Kensaku; and Tanaka, Takaharu, 4,704,359, Cl. 435-69.000.
Yoshizumi, Hajime; Amachi, Teruo; Kusumi, Takaaki; Tanaka, Takaharu; and Ishigooka, Hiroshi, 4,670,755, Cl. 424-93.000.

Tanaka, Takahiko: *See*—
Tsunoda, Akira; Tanaka, Takahiko; and Handa, Noboru, 4,673,853, Cl. 318-443.000.
Tsunoda, Akira; Tanaka, Takahiko; and Handa, Noboru, 4,689,535, Cl. 318-443.000.

Tanaka, Takanori; and Kitagawa, Takashi, to NEC Corporation. Color imaging apparatus. 4,700,219, 10-13-87, Cl. 358-29.000.

Tanaka, Takao: *See*—
Yaotani, Kouichi; Nakada, Fumio; Tanaka, Takao; and Yoshida, Minoru, 4,637,767, Cl. 411-411.000.

Tanaka, Takashi; and Yamamoto, Satoru, to Yoshida Kogyo K. K. Beam for a dyeing apparatus. 4,637,233, 1-20-87, Cl. 68-198.000.

Tanaka, Takashi: *See*—
Nogi, Munehiro; Ohashi, Ryutaro; Miyazaki, Koichiro; Tanaka, Takashi; Tamakoshi, Koichiro; Tamano, Yoshiziro; Wakita, Syotaro; and Suzuki, Toshimitsu, 4,641,671, Cl. 134-57.00D.
Tamamizu, Teruyasu; Sato, Kichihei; Tanaka, Takashi; and Sato, Shunkichi, 4,710,428, Cl. 428-408.000.
Watanabe, Toshinori; Sasaki, Koji; Yasunobu, Chizuko; Iizuka, Yumiko; Nagai, Yoshiaki; Yamanaka, Toshiro; Yamakoshi, Minoru; and Tanaka, Takashi, 4,700,317, Cl. 364-488.000.

Tanaka, Takemi: *See*—
Yamada, Yonekazu; Sato, Osamu; and Tanaka, Takemi, 4,670,207, Cl. 264-248.000.

Tanaka, Takeo: *See*—
Uno, Masahiro; and Tanaka, Takeo, 4,651,004, Cl. 250-343.000.

Tanaka, Takeshi: *See*—
Kanazawa, Hirotaka; Tanaka, Takeshi; Furutani, Shigeki; and Miyoshi, Akihiko, 4,673,189, Cl. 280-91.000.
Sakakibara, Yasuyuki; Abe, Seiko; Tomita, Masahiro; Yorita, Hiroshi; Tanaka, Takeshi; and Igashira, Toshihiko, 4,705,003, Cl. 123-449.000.
Sasaki, Kunihiko; Kodera, Masao; Huzino, Seizi; and Tanaka, Takeshi, 4,700,127, Cl. 324-58.50C.

Tanaka, Taro: *See*—
Igashira, Toshihiko; Tanaka, Taro; and Sakakibara, Yasuyuki, 4,649,886, Cl. 123-498.000.

Tanaka, Teruaki: *See*—
Arii, Kazuhiro; Tanaka, Teruaki; Sumida, Nobuyuki; and Arisaka, Kouhei, 4,637,563, Cl. 242-4.00B.
Yamaguchi, Hiroshi; Tanaka, Teruaki; Hirai, Masatake; Kohketsu, Tadashi; Matsumoto, Masahiro; and Kawate, Kenji, 4,649,240, Cl. 219-10.570.
Yanazawa, Tadaaki; Tanaka, Teruaki; Noda, Akio; Takeda, Ryo; and Inoue, Masataka, 4,685,320, Cl. 72-250.000.

Tanaka, Terukazu: *See*—
Izutsu, Yasuo; Sogo, Kiyomi; Okamoto, Shizuo; and Tanaka, Terukazu, 4,650,666, Cl. 424-479.000.

Tanaka, Teruo; Tanaka, Teruya; and Kitamura, Masato, to Dai-Ichi Kogyo Seiyaku Co., Ltd. Process for forming moisture-permeable waterproof coating on fabrics. 4,695,484, 9-22-87, Cl. 427-245.000.

Tanaka, Teruo: *See*—
Miyadera, Tetsuo; Sugimura, Yukio; Tanaka, Teruo; Hashimoto, Toshihiko; Iino, Kimio; and Sugawara, Shinichi, 4,639,441, Cl. 514-195.000.

Tanaka, Teruya: *See*—
Tanaka, Teruo; Tanaka, Teruya; and Kitamura, Masato, 4,695,484, Cl. 427-245.000.

Tanaka, Tetsuo: *See*—
Okuzono, Shuichi; Tanaka, Tetsuo; Oda, Yasuhiro; Shintani, Takashi; and Emura, Noriaki, 4,713,083, Cl. 8-557.000.
Sakamoto, Yukio; Tanaka, Tetsuo; and Hori, Toshio, 4,700,155, Cl. 333-182.000.

Tanaka, Tetsurou: *See*—
Matsuoka, Kaoru; Maeoka, Tadashi; Kajino, Jirou; Minabe, Hisashi; and Tanaka, Tetsurou, 4,704,643, Cl. 360-71.000.

Tanaka, Tomiho; Suzuki, Takashi; and Watashi, Mitsuo, to Kubota, Ltd. Power transmitting apparatus for tractor. 4,685,341, 8-11-87, Cl. 74-15.820.

Tanaka, Tomiji: *See*—
Sato, Noboru; and Tanaka, Tomiji, 4,670,356, Cl. 428-693.000.

Tanaka, Tomio: *See*—
Itoh, Hiroshi; Nitta, Atsuhiko; Tanaka, Tomio; and Kamio, Hideo, 4,649,219, Cl. 564-207.000.
Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamefumi; Ouchi, Tadahiro; Abe, Kazuki; and Kobayashi, Sadao, 4,683,329, Cl. 524-434.000.

Tanaka, Tomoo: *See*—
Morita, Masahiko; Hashimoto, Osamu; and Tanaka, Tomoo, 4,686,471, Cl. 324-243.000.

Tanaka, Toshiaki; and Sugihara, Kunihiko, to Nissan Motor Co., Ltd. Swirl chamber arrangement for diesel engine or the like. 4,635,596, 1-13-87, Cl. 123-293.000.

Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoki; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, to Toyota Jidosha Kabushiki Kaisha, and Nippondenso Kabushiki Kaisha. Intake air heater for internal combustion engine with perforated plate heater element partially traversing air passage. 4,685,437, 8-11-87, Cl. 123-549.000.

Tanaka, Toshiaki: *See*—
Etoh, Yukihiro; Sugihara, Kunihiko; Shioyama, Giichi; Tanaka, Toshiaki; and Kawamura, Yoshihisa, 4,676,209, Cl. 123-293.000.
Hori, Makoto; Nomura, Etsuji; Niwa, Hitoshi; Mukai, Hirokatsu; and Tanaka, Toshiaki, 4,667,644, Cl. 123-549.000.
Shioyama, Giichi; Sugihara, Kunihiko; Etoh, Yukihiro; Tanaka, Toshiaki; and Kawamura, Yoshihisa, 4,662,330, Cl. 123-269.000.

Tanaka, Toshie, to Nifco, Inc. Snap hook. 4,644,611, 2-24-87, Cl. 24-231.000.

Tanaka, Toshiharu: *See*—
Hayashi, Takayuki; Usami, Toshimasa; and Tanaka, Toshiharu, 4,686,547, Cl. 503-207.000.
Kiritani, Masataka; Usami, Toshimasa; and Tanaka, Toshiharu, 4,665,411, Cl. 346-213.000.
Usami, Toshimasa; and Tanaka, Toshiharu, 4,644,376, Cl. 346-215.000.
Usami, Toshimasa; Tanaka, Toshiharu; and Shinozaki, Fumiaki, 4,650,740, Cl. 430-176.000.
Usami, Toshimasa; Tanaka, Toshiharu; and Yoshida, Shoho, 4,682,194, Cl. 503-215.000.

Tanaka, Toshihide; Saka, Hiroshi; Yoshimura, Yoshikazu; and Shiono, Yasuhumi, to Matsushita Electric Industrial Co., Ltd. Waveguide-microstrip line coupling arrangement and a frequency converter having the coupling arrangement. 4,679,249, 7-7-87, Cl. 455-328.000.

Tanaka, Toshihide: *See*—
Mekata, Tsuyoshi; Saka, Hiroshi; and Tanaka, Toshihide, 4,707,666, Cl. 331-99.000.
Saka, Hiroshi; and Tanaka, Toshihide, 4,648,128, Cl. 455-301.000.

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Maenishi, Kozo; Genma, Keiji; Sano, Takezo; Tanaka, Toshiki; and Sato, Shigenobu, 4,656,733, Cl. 29-602.00R.

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Ajioka, Syohei; and Tanaka, Toshio, 4,634,448, Cl. 8-436.000.
Okada, Noboru; and Tanaka, Toshio, 4,666,030, Cl. 198-431.000.
Sato, Kanichi; Setoyama, Mikio; Kiguchi, Shoji; and Tanaka, Toshio, 4,638,845, Cl. 164-12.000.
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Sekimoto, Yoshihiro; Terashima, Shigeo; Kumata, Kiyoshi; and Tanaka, Toshiyuki, 4,678,276, Cl. 350-247.000.
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Fujisawa, Kunio; Tanaka, Toyoji; Mochizuki, Toshio; Nakamura, Norio; and Kaya, Seiji, 4,637,711, Cl. 355-72.000.
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Ikemori, Keiji; Tanaka, Tsunefumi; and Kato, Masatake, 4,687,302, Cl. 350-427.000.
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Takizawa, Takashi; and Tanaka, Tsutomu, 4,648,247, Cl. 62-256.000.
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Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Tanaka, Wataru; Takita, Tomohisa; Nishimura, Yoshio; and Yoshikawa, Hiroshi, 4,716,221, Cl. 536-17.200.
Tanaka, Yasuhiko; and Kimura, Yoshiaki, to Konishiroku Photo Industry Co., Ltd. Method of purging impurities from a printing head. 4,668,965, 5-26-87, Cl. 346-140.00R.
Tanaka, Yasuhiko; *See*—
Watanabe, Masato; Tanaka, Yasuhiko; and Murakami, Kiyotaka, 4,660,057, Cl. 346-140.00R.
Tanaka, Yasuhiro, to Murata Manufacturing Co., Ltd. Piezoelectric resonator with notched sides. 4,641,055, 2-3-87, Cl. 310-3a8.000.
Tanaka, Yasuhiro, to Murata Manufacturing Co., Ltd. Housing having grooves therein for mounting a piezoelectric ladder filter. 4,656,385, 4-7-87, Cl. 310-348.000.
Tanaka, Yasuhiro, to Murata Manufacturing Co., Ltd. Laminated terminal layer for electronic component. 4,695,756, 9-22-87, Cl. 310-355.000.
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Kimura, Sakae; and Tanaka, Yasuhiro, 4,693,571, Cl. 350-634.000.
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Shibata, Norio; Takeda, Hideo; Sato, Tsunehiko; and Tanaka, Yasunori, 4,681,062, Cl. 118-410.000.
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Tanaka, Yasuo; *See*—
Yoshinaka, Toshio; Taniguchi, Toshikatsu; Ida, Shuichiro; Nagano, Shuji; Kimura, Shigeru; and Tanaka, Yasuo, 4,711,136, Cl. 74-665.0GA.
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Miki, Nobuyuki; Yamaoka, Hiroshi; and Tanaka, Yoichi, 4,712,085, Cl. 338-22.0SD.
Tanaka, Yoichiro; *See*—
Sagoi, Masayuki; Tanaka, Yoichiro; and Nakamura, Hiroki, 4,701,374, Cl. 428-336.000.
Tanaka, Yoko; *See*—
DeLuca, Hector F.; Schnoes, Heinrich K.; Sicinski, Rafal R.; and Tanaka, Yoko, 4,689,180, Cl. 260-397.200.
Tanaka, Yoshiaki; Inami, Mamoru; and Otsuki, Zenju, to Victor Company of Japan, Limited. Spectrum display device for audio signals. 4,665,494, 5-12-87, Cl. 364-485.000.
Tanaka, Yoshiharu; *See*—
Inashima, Satoshi; Terada, Kiyoshi; Wakabayashi, Hideo; and Tanaka, Yoshiharu, 4,689,684, Cl. 358-190.000.
Tanaka, Yoshihiro; and Kodama, Ryozo, to Sankou Seizai Kougyou Kabushiki Kaisha. Transferring device of a cam type. 4,674,362, 6-23-87, Cl. 74-833.000.
Tanaka, Yoshihiro; *See*—
Fujitani, Mitsuhiro; and Tanaka, Yoshihiro, 4,674,819, Cl. 339-99.00R.
Tanaka, Yoshimichi, to Mazda Motor Corporation. Cylinder head for DOHC engine. 4,641,609, 2-10-87, Cl. 123-41.82R.
Tanaka, Yoshinari; *See*—
Akazawa, Toshiyuki; Tanaka, Yoshinari; and Okaya, Takuji, 4,640,870, Cl. 428-483.000.
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Tanaka, Yoshinobu; and Yokoi, Hiromitsu, to Kabushiki Kaisha Alpha Giken. Contairer. 4,634,023, 1-6-87, Cl. 222-105.000.
Tanaka, Yoshinori, to Sony Corporation. Magnetic disc recording and/or reproducing apparatus. 4,675,758, 6-23-87, Cl. 360-75.000.
Tanaka, Yosuio; and Onodera, Toshihiro, to Kabushiki Kaisha Toshiba. Drive method for switching power converter and apparatus using this method. 4,680,534, 7-14-87, Cl. 323-290.000.
Tanaka, Yoshio; *See*—
Shimizu, Toshimi; and Tanaka, Yoshio, 4,668,397, Cl. 210-634.000.
Tanaka, Yoshiro; *See*—
Owa, Yutaka; Tanaka, Yoshiro; Saito, Takeshi; and Takeda, Yoshiro, 4,637,759, Cl. 405-270.000.
Tanaka, Yuji; *See*—
Matsuda, Koichi; Kondo, Nobuaki; and Tanaka, Yuji, 4,635,890, Cl. 248-429.000.
Tanaka, Yukio; Miyatake, Toshiya; Kitera, Takuya; and Miyamae, Isamu, to Mitsubishi Jukogyo Kabushiki Kaisha. Extendable and retractable cleaning apparatus. 4,646,768, 3-3-87, Cl. 134-167.00R.
Tanaka, Yukitaka; Irinatsu, Yuichi; Noguchi, Aiko; and Kobayashi, Takashi, to Kao Corporation. Substitute composition for cocoa butter. 4,705,692, 11-10-87, Cl. 426-607.000.
Tanaka, Yutaka; Nishizawa, Taiji; Ninomiya, Yuichi; Ohmura, Toshiro; Kurita, Taiichiro; and Ohtsuka, Yoshimichi, to Nippon Hoso Kyokai. TV system conversion apparatus. 4,663,665, 5-5-87, Cl. 358-140.000.
Tanaka, Yutaka; and Umemura, Shunji, to Sony Corporation. Color correction circuit. 4,694,330, 9-15-87, Cl. 358-27.000.
Tanaka, Yutaka; and Iseki, Hidemi, to Kabushiki Kaisha Toshiba. Switched capacitor rectifier circuit. 4,704,545, 11-3-87, Cl. 307-236.000.
Tanaka, Yutaka; *See*—
Okada, Takashi; Mogi, Takao; Ohmori, Shoji; Tanaka, Yutaka; and Kobayashi, Hiroyuki, 4,635,113, Cl. 358-124.000.
Tanaka, Yuzuru, to Daishowa Seiki Co., Ltd. Contact detector for a machine tool. 4,657,451, 4-14-87, Cl. 409-186.000.
Tanakamaru, Yasuharu; *See*—
Yokota, Kinya; Ichihara, Akinobu; Tanakamaru, Yasuharu; and Takahashi, Yoshio, 4,666,523, Cl. 106-213.000.
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Tanasescu, Florin T.; Gaitan, Laurentiu Vatafu; and Stefanescu, Dumitru, to Institutul de Cercetare Stiintifica si Ingineric Techaologica Pentru Industria Electrotechnica-ICPE. Electronic controlling equipment for driving systems with electromagnetic couplings for industrial sewing and/or overcasting machines. 4,658,742, 4-21-87, Cl. 112-275.000.
Tanasescu, Leo, to Petro Fax, Inc. Reader-printer system. 4,648,707, 3-10-87, Cl. 355-45.000.
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Tanaka, Shinsaku; and Yoshimura, Toshio, 4,639,800, Cl. 360-90.000.

Tanaka, Shinsaku; and Kido, Kunio, 4,709,871, Cl. 242-68.300.

Tanazawa, Masayoshi; Shoji, Masaru; and Yamada, Wataru, to Casio Computer Co., Ltd. Movement of electronic watch of analog display type. 4,711,584, 12-8-87, Cl. 368-88.000.

Tanba, Nobuo: *See*—
Nakazato, Shinji; Uchida, Hideaki; Tanba, Nobuo; Gotoo, Nobuyuki; Onozawa, Kazunori; and Hiraishi, Atsushi, 4,672,416, Cl. 357-46.000.

Tanca, Michael C., to Combustion Engineering, Inc. Two stage slagging gasifier. 4,680,035, 7-14-87, Cl. 48-77.000.

Tandberg Data A/S: *See*—
Dahlerud, Ole C., 4,679,104, Cl. 360-78.000.
Helgeland, Olav, 4,662,797, Cl. 358-254.000.
Rudi, Guttorm; and Dilling, Jan-Erik, 4,636,890, Cl. 360-96.500.
Rudi, Guttorm, 4,636,903, Cl. 360-132.000.
Solhjell, Erik, 4,639,796, Cl. 360-77.000.
Strand, Steinar, 4,675,759, Cl. 360-75.000.

Tande, Myron. Apparatus for positioning an electrical box. 4,635,372, 1-13-87, Cl. 33-180.00R.

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Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S.; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., 4,663,706, Cl. 364-200.000.
Allen, James C.; Bartlett, Wendy B.; Johnson, Hoke S., III; Fisher, Steven D.; Larson, Richard O.; and Peck, John C., 4,667,287, Cl. 364-200.000.
Bailey, Carl J., 4,703,195, Cl. 307-147.000.
Chandran, Srikumar R.; and Walker, Mark S., 4,700,346, Cl. 371-1.000.
Ferchau, Joerg U.; and Trujillo, Victor D., 4,682,833, Cl. 439-377.000.
Goodman, William R.; Mayfield, Richard B.; Tawshunsky, Ted; and Zardiackas, Fredrick L., 4,646,300, Cl. 371-33.000.
Goodman, William R.; and Koenig, Kenneth G., 4,651,323, Cl. 371-60.000.
Goodman, William R., 4,667,321, Cl. 370-80.000.
Horst, Robert W.; and Harris, Richard L., 4,636,943, Cl. 364-200.000.
Humphrey, Richard A.; Fisher, Steven D.; Wierenga, Steven W.; and Sjostedt, Jon, 4,672,609, Cl. 371-21.000.
Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,639,864, Cl. 364-200.000.
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Lauer, Gilbert E., 4,675,646, Cl. 340-146.200.
Mathur, Vishnu; and Garcia, Socorro, 4,661,204, Cl. 156-656.000.
Monaghan, William A.; and Shook, James M., 4,650,263, Cl. 312-265.000.
Monaghan, William A.; and Shook, James M., 4,676,040, Cl. 52-285.000.
Pauker, Armando; and Preuit, Richard B., 4,638,240, Cl. 323-289.000.
Wang, Hsienchin W., 4,683,383, Cl. 307-473.000.

Tandler, Peter: *See*—
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Hopkins, Donn A.; and Niles, Raymond W., Jr., 4,654,737, Cl. 360-106.000.

Tandon, Jag S., to American Environmental International Inc. Air pollution control system method and apparatus. 4,662,899, 5-5-87, Cl. 55-80.000.

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Araghi, Mehdi N.; and Tandon, Jagdish C., 4,698,131, Cl. 156-647.000.
Kadekodi, Narayan K.; Ibrahim, Abd-El-Fattah A.; Handy, Roland J.; and Tandon, Jagdish C., 4,712,137, Cl. 358-213.290.
Stoffel, James C.; and Tandon, Jagdish C., 4,690,391, Cl. 269-21.000.
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Tandy Corporation: *See*—
Berger, Michael F., 4,649,514, Cl. 364-900.000.
Berger, Michael F.; and Sawyer, Sammy D., 4,679,166, Cl. 364-900.000.
Siddiq, Mohammed, 4,664,947, Cl. 427 130.000.

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Schultz, William J.; Portelli, Gene B.; and Tane, Jeffrey P., 4,684,678, Cl. 523-466.000.

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Noro, Takanobu; Koakutsu, Yasumasa; Takeuchi, Tamio; Yano, Masao; Onoda, Seiichi; Arima, Hideo; Yokono, Hitoshi; and Tanei, Hirayoshi, 4,715,673, Cl. 350-96.200.

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Tanel, Michael L., 4,653,206, Cl. 36-126.000.
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Iijima, Kouta; and Tanemura, Takeshi, 4,660,002, Cl. 332-16.00T.

Tanev, Georgi L.: *See*—
Zabunova, Orhideya B.; Zvetanov, Hristo B.; Petrova, Lyudmila V.; Ognyanova, Vaska A.; Nikolova, Milka P.; Tanev, Georgi L.; and Ivanova, Nedyalka S., 4,704,468, Cl. 560-43.000.

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Yano, Seiki; Yamamoto, Saburo; Matsui, Sadayoshi; and Taneya, Mototaka, 4,694,461, Cl. 372-50.000.

Tang, Alex K.: *See*—
Wadhera, Anil K.; Tang, Alex K.; and Basser, Theodore E., 4,705,916, Cl. 174-35.0GC.

Tang, Ching C.: *See*—
Benzing, David W.; Benzing, Jeffrey C.; Boren, Arthur D.; and Tang, Ching C., 4,657,616, Cl. 156-345.000.

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Tang, D. Duan-Lee: *See*—
Silvestri, Victor J.; and Tang, D. Duan-Lee, 4,689,656, Cl. 357-49.000.

Tang, David Y.; Cotter, Byron R.; and Goetz, Fredrick J., to Occidental Chemical Corporation. 3,4-difluoro-5-nitrobenzotrifluoride and preparation of fluoro-nitro-benzotrifluorides. 4,704,483, 11-3-87, Cl. 568-937.000.

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Tang, Robert H., to PPG Industries, Inc. Bis(allyl carbonate) monomer and method for polymerizing same. 4,686,266, 8-11-87, Cl. 526-193.000.

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Tang, Wai-Cheung; Frenna, Joseph; and Siu, David, to Com Dev Ltd. Odd order elliptic waveguide cavity filters. 4,644,305, 2-17-87, Cl. 333-208.000.

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Tangberg Data A/S: *See*—
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Tange, Koichi: *See*—
Arakawa, Hideo; Sugiyama, Gunji; Tange, Koichi; Hongo, Takerô; Yamamoto, Yazo; and Ohba, Hiroyuki, 4,700,302, Cl. 364-424.000.
Tange, Kyoichi: *See*—
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Sasaki, Torahiko; Tange, Kyoichi; Okawa, Masahiro; and Suzuki, Yoshihiro, 4,677,039, Cl. 429-14.000.
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Tanglin, David J.: *See*—
Hamstra, James R.; Koehler, Howard A.; Rusterholz, John T.; and Tanglin, David J., 4,706,191, Cl. 364-200.000.
Tango, Hiroyuki: *See*—
Inoue, Tomoyasu; Tango, Hiroyuki; Suguro, Kyoichi; Higashinakagawa, Iwao; and Hamasaki, Toshihiko, 4,662,949, Cl. 148-1.500.
Tangonan, Gregory L.; and Yen, Huan-Wun, to Hughes Aircraft Company. Spectral filter for integrated optics. 4,701,009, 10-20-87, Cl. 350-96.120.
Tangonan, Gregory L.; Yen, Huan-Wun; and Persechini, David L., to Hughes Aircraft Company. Product of and process for forming tapered waveguides. 4,711,514, 12-8-87, Cl. 350-96.120.
Tangorra, Giorgio, to Industrie Pirelli, S.p.A. Joint for the transmission of motion from a driving shaft to a driven shaft. 4,634,396, 1-6-87, Cl. 464-55.000.
Tangorra, Giorgio; Cicognani, Mario; and Macchiarulo, Vincenzo, to Industrie Pirelli S.p.A. Toothed-pulley for transmission with a toothed-belt. 4,634,410, 1-6-87, Cl. 474-153.000.
Tangorra, Giorgio; and Robecchi, Edoardo, to Industrie Pirelli S.p.A. V-belt. 4,657,526, 4-14-87, Cl. 474-261.000.
Tangorra, Giorgio, to Industrie Pirelli, S.p.A. Belt for the transmission of motion between pulleys. 4,661,088, 4-28-87, Cl. 474-237.000.
Tangorra, Giorgio, to Industrie Pirelli S.p.A. Oleoelastic energy accumulator. 4,697,674, 10-6-87, Cl. 188-298.000.
Tanguay, Jacques: *See*—
Pelletier, Jean; Tanguay, Jacques; and Potvin, Clement, 4,650,017, Cl. 180-9.100.
Tani, Hiroji: *See*—
Kasanami, Toru; Tani, Hiroji; Watanabe, Shizuharu; and Ikeda, Toshiaki, 4,693,843, Cl. 252-518.000.
Tani, Hoshiro: *See*—
Ushio, Tetsuji; Tatsuguchi, Satoru; Tani, Hoshiro; and Tsuzawa, Takashi, 4,688,320, Cl. 29-527.400.
Tani, Kanari, to Itoh, Kazuhiro. Easy-to-open synthetic resin bag and apparatus for the manufacture thereof. 4,650,079, 3-17-87, Cl. 206-616.000.
Tani, Kazuhide: *See*—
Otsuka, Seinosuke; Tani, Kazuhide; Yamagata, Tsuneaki; Akutagawa, Susumu; Kumobayashi, Hidenori; and Yagi, Misao, 4,695,531, Cl. 544-170.000.
Tani, Koichi: *See*—
Fukuda, Michio; Fudo, Eiji; Tani, Koichi; and Kobayashi, Haruhito, 4,653,182, Cl. 29-754.000.
Tani, Masanori: *See*—
Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Goto, Masaki, 4,709,935, Cl. 280-91.000.
Tani, Nobutaka; and Hayashi, Tsuneo, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Adsorbent and process for preparing the same. 4,637,994, 1-20-87, Cl. 502-404.000.
Tani, Nobutaka: *See*—
Furuyoshi, Shigeo; and Tani, Nobutaka, 4,654,420, Cl. 536-59.000.
Furuyoshi, Shigeo; and Tani, Nobutaka, 4,656,261, Cl. 536-59.000.
Ohnishi, Michikazu; and Tani, Nobutaka, 4,696,670, Cl. 604-49.000.
Tani, Seijiro: *See*—
Sayo, Kosaku; Tani, Seijiro; Miyamoto, Seigo; Emi, Kenji; and Fukushima, Toshihiko, 4,653,288, Cl. 62-210.000.
Tani, Tadaaki: *See*—
Ihama, Mikio; Tani, Tadaaki; and Ohnishi, Hiroshi, 4,683,193, Cl. 430-570.000.
Ihama, Mikio; and Tani, Tadaaki, 4,693,965, Cl. 430-569.000.
Tani, Takeru: *See*—
Tanaka, Masanobu; and Tani, Takeru, 4,661,994, Cl. 455-157.000.
Tani, Tatsuhiro; Nagasawa, Hiroyuki; Tomite, Tosio; Tsubota, Kiyomasa; and Takahashi, Akira, to Hitachi, Ltd. Armature for direct current motor with imbalance correction. 4,644,201, 2-17-87, Cl. 310-51.000.
Tani, Tatsuhiro: *See*—
Tomite, Tosio; Tani, Tatsuhiro; and Kobayashi, Hidemitsu, 4,707,630, Cl. 310-154.000.
Tani, Tatsuya: *See*—
Maeda, Hideo; Hori, Tadashi; and Tani, Tatsuya, 4,669,534, Cl. 165-59.000.
Tani, Toru: *See*—
Kodama, Masashi; Tani, Toru; Hanazawa, Kazuyoshi; Oka, Totaro; Teramoto, Kazuo; and Nishiumi, Shiro, 4,661,260, Cl. 210-679.000.
Tani, Toshiro: *See*—
Makishima, Akio; and Tani, Toshiro, 4,639,329, Cl. 252-501.100.
Tani, Toshiyuki: *See*—
Inazawa, Yoshizumi; Takahashi, Toshihiko; Tani, Toshiyuki; and Satomura, Shigeyuki, 4,641,208, Cl. 360-72.200.
Takahashi, Toshihiko; Inazawa, Yoshizumi; Tani, Toshiyuki; and Satomura, Shigeyuki, 4,688,115, Cl. 360-70.000.
Tani, Yoshiki: *See*—
Yamada, Hideaki; and Tani, Yoshiki, 4,637,982, Cl. 435-129.000.
Tani, Yoshio; Yabe, Masao; and Naruo, Kyoichi, to Fuji Photo Film Co., Ltd. Information recording medium. 4,686,543, 8-11-87, Cl. 346-137.000.
Tani, Yoshio: *See*—
Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, 4,633,824, Cl. 123-41.650.
Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, 4,686,946, Cl. 123-90.410.
Tani, Zempei; Hachimura, Kenji; and Kawai, Noboru, to Sharp Kabushiki Kaisha. Position control in a D.C. motor. 4,689,540, 8-25-87, Cl. 318-608.000.
Tani, Zempei; Masuda, Yoshifumi; and Miyake, Toshihide, to Sharp Kabushiki Kaisha. Semiconductor color sensor detection circuit. 4,692,025, 9-8-87, Cl. 356-45.000.
Tani, Zempei: *See*—
Ebina, Kiyoshi; Nakao, Kazuhira; and Tani, Zempei, 4,654,525, Cl. 250-231.0SE.
Taniai, Youichi: *See*—
Kushida, Takeo; and Taniai, Youichi, 4,677,327, Cl. 310-43.000.
Tanigaki, Katsumi; and Iida, Yasuo, to NEC Corporation. Positive acting resist material comprised of novoloc resin derived from phenylphenol. 4,690,882, 9-1-87, Cl. 430-192.000.
Tanigaki, Teiichi, to Sugai Chemical Industry Co., Ltd. Biphenyl compounds and process for producing the same. 4,670,581, 6-2-87, Cl. 560-108.000.
Tanigami, Yukio; Iino, Shuji; and Nakamura, Mitsutoshi, to Minolta Camera Kabushiki Kaisha. Photosensitive member with an insulating layer of amorphous silicon. 4,642,278, 2-10-87, Cl. 430-66.000.
Tanigami, Yukio; Iino, Shuji; and Nakamura, Mitsutoshi, to Minolta Camera Kabushiki Kaisha. Photosensitive member with an insulating layer of amorphous silicon. 4,642,279, 2-10-87, Cl. 430-66.000.
Tanigawa, Mitsuru: *See*—
Matsui, Kazuhiro; Tanigawa, Mitsuru; and Sugiura, Haruyuki, 4,697,303, Cl. 16-112.000.
Tanigawa, Naoya; Inagaki, Toshiyuki; and Maeda, Hiroyuki, to Aisin Seiki Kabushiki Kaisha. Variable orifice device. 4,653,533, 3-31-87, Cl. 137-565.000.
Tanigawa, Tohru, to Sharp Kabushiki Kaisha. Alignment method. 4,655,600, 4-7-87, Cl. 356-401.000.
Tanigawa, Yasuo: *See*—
Iwao, Nomura; Masuyama, Takayuki; Tanigawa, Yasuo; and Hasimoto, Hirofumi, 4,702,666, Cl. 414-730.000.
Nomura, Iwao; Masuyama, Takayuki; Tanigawa, Yasuo; and Hasimoto, Hirofumi, 4,636,136, Cl. 414-730.000.
Tanigawa, Yoshinari: *See*—
Ito, Kazuhiko; Yonehara, Jun; Tanigawa, Yoshinari; and Yamaguchi, Minoru, 4,651,814, Cl. 165-47.000.
Taniguchi, Akihiko; Fukunaga, Takahiro; and Shimizu, Eiichi, to Sharp Kabushiki Kaisha. Mechanism for adjusting the starting position of sliding table of an electrophotographic copying machine. 4,682,884, 7-28-87, Cl. 355-51.000.
Taniguchi, Akihiko; Migita, Haruyoshi; Nakanishi, Yasushi; and Kato, Itsuro, to Sharp Kabushiki Kaisha. Combined alarm display and numerical display for electrophotographic copying machine. 4,688,929, 8-25-87, Cl. 355-14.00R.
Taniguchi, Akihiko: *See*—
Nakanishi, Yasushi; and Taniguchi, Akihiko, 4,687,320, Cl. 355-14.00R.
Taniguchi, Akira; Ojio, Kunji; Yamamoto, Tatsuya; and Sana, Toshikazu, to Kawasaki Jukogyo Kabushiki Kaisha. Laminating apparatus for prepreg materials. 4,708,761, 11-24-87, Cl. 156-516.000.
Taniguchi, Fumio; and Matsuno, Tomio, to Nissan Motor Co., Ltd. Quick freeze cooling/heating unit powered by automotive air conditioner. 4,705,099, 11-10-87, Cl. 165-12.000.
Taniguchi, Harushige. Carrier for supporting user's body. 4,658,451, 4-21-87, Cl. 5-61.000.
Taniguchi, Harutaka; and Fumoto, Takafumi, to Fuji Electric Co., Ltd.; and Fuji Electric Corporate Research and Development Co., Ltd. Infrared analyzer. 4,692,622, 9-8-87, Cl. 250-343.000.
Taniguchi, Haruyuki: *See*—
Watanabe, Kenichi; and Taniguchi, Haruyuki, 4,706,945, Cl. 267-186.000.
Taniguchi, Hiroji; Iwatsuki, Kunihiro; and Shindou, Yoshio, to Toyota Jidosha Kabushiki Kaisha. Shift control system of automatic transmission. 4,690,017, 9-1-87, Cl. 74-866.000.
Taniguchi, Hiroshi; Tanizawa, Mitsumasa; and Ueno, Masatoshi, to Dainippon Screen Mfg. Co., Ltd. Apparatus for processing sensitive materials. 4,687,313, 8-18-87, Cl. 354-320.000.

Taniguchi, Hiroshi: *See*—
Furumoto, Mitsunobu; and Taniguchi, Hiroshi, 4,656,536, Cl. 360-72.200.
Taniguchi, Hiroyuki: *See*—
Kishi, Yasuo; and Taniguchi, Hiroyuki, 4,663,494, Cl. 136-244.000.
Taniguchi, Hisashi: *See*—
Inoue, Hidemasa; and Taniguchi, Hisashi, 4,649,710, Cl. 62-92.000.
Taniguchi, Hitoshi: *See*—
Hirotsuka, Motohiko; Harada, Tetsuro; Ohtsubo, Nobuhiro; Kawade, Hiroyuki; Hayakawa, Yoshiyuki; and Taniguchi, Hitoshi, 4,702,927, Cl. 426-467.000.
Taniguchi, Ikuo: *See*—
Ikeuchi, Satoshi; and Taniguchi, Ikuo, 4,680,776, Cl. 375-40.000.
Taniguchi, Junichi: *See*—
Udaka, Shigezo; Ueyama, Hideo; Taniguchi, Junichi; and Adachi, Keiji, 4,656,037, Cl. 424-118.000.
Taniguchi, Katsuo; Fujimoto, Tadaaki; and Saeki, Kenji, to Mitsui Petrochemical Industries, Ltd. Alkali metal-supported catalyst. 4,675,307, 6-23-87, Cl. 502-306.000.
Taniguchi, Kayoko; Tsuchiya, Hideki; and Toyama, Masaaki, to Sony Magnescale Incorporation. Optical instrument for measuring displacement. 4,676,645, 6-30-87, Cl. 356-356.000.
Taniguchi, Keishi: *See*—
Nagamoto, Masanaka; Kurisu, Norio; and Taniguchi, Keishi, 4,636,819, Cl. 346-216.000.
Taniguchi, Koji; Tanaka, Koichi; and Ogura, Takashi, to Sharp Kabushiki Kaisha. Thin film light emitting element. 4,672,266, 6-9-87, Cl. 313-509.000.
Taniguchi, Koji: *See*—
Ogura, Takashi; Tanaka, Koichi; Taniguchi, Koji; Yoshida, Masaru; and Mikami, Akiyoshi, 4,707,419, Cl. 428-690.000.
Taniguchi, Koki; Yamaguchi, Shigeri; and Nakayama, Keiji, to Sharp Kabushiki Kaisha. Circuit board connection. 4,639,062, 1-27-87, Cl. 339-59.00M.
Taniguchi, Koki, to Sharp Kabushiki Kaisha. Anisotropic electric conductive rubber connector. 4,643,498, 2-17-87, Cl. 339-17.00M.
Taniguchi, Makoto: *See*—
Hayashi, Seiichi; Takei, Katsumori; Usui, Takahiro; Yamaguchi, Yoshitaka; and Taniguchi, Makoto, 4,636,258, Cl. 106-31.000.
Taniguchi, Masaaki: *See*—
Iwata, Akira; Tamamaki, Masahiro; Tanaka, Genji; Taniguchi, Masaaki; and Tsuda, Kouji, 4,671,917, Cl. 264-332.000.
Taniguchi, Masao; Morita, Yoshiharu; Hayakawa, Shuzo; and Kawashima, Osamu, to Mitsubishi Chemical Industries Limited. Process for preparation of phthalide derivatives. 4,684,732, 8-4-87, Cl. 546-144.000.
Taniguchi, Masao: *See*—
Parsons, William H.; Schoen, William R.; Patchett, Arthur A.; and Taniguchi, Masao, 4,715,994, Cl. 260-502.50E.
Taniguchi, Masato; Nishio, Hisaharu; Kawamura, Mitsuyoshi; and Okumura, Toshio, to NGK Spark Plug Co. Ltd. Precombustion chamber with insulating means. 4,672,933, 6-16-87, Cl. 123-270.000.
Taniguchi, Masato, to NGK Spark Plug Co., Ltd. Structure for mounting sub-combustion chamber in an internal combustion engine. 4,699,102, 10-13-87, Cl. 123-271.000.
Taniguchi, Masato: *See*—
Kawamura, Mitsuyoshi; and Taniguchi, Masato, 4,676,207, Cl. 123-271.000.
Kojima, Takio; and Taniguchi, Masato, 4,691,673, Cl. 123-271.000.
Kojima, Takio; and Taniguchi, Masato, 4,704,998, Cl. 123-271.000.
Taniguchi, Motoaki: *See*—
Endo, Kazuyuki; Taniguchi, Motoaki; Takahashi, Masanobu; Yamada, Shigeki; and Kato, Kenshiro, 4,700,764, Cl. 152-526.000.
Taniguchi, Motoya; Kuni, Asahiro; Funatsu, Ryuichi; Kembo, Yukio; and Inagaki, Akira, to Hitachi, Ltd. Light-exposure apparatus. 4,666,291, 5-19-87, Cl. 355-52.000.
Taniguchi, Naohiro: *See*—
Suzuki, Yasuo; Kawamoto, Tetsuo; Motohashi, Ryo; Nagai, Masato; Takegawa, Katsumi; and Taniguchi, Naohiro, 4,704,567, Cl. 318-254.000.
Taniguchi, Nobuyuki; Tominaga, Shinji; Yamamoto, Kouji; Ootsuka, Hiroshi; and Ueda, Hiroshi, to Minolta Camera Kabushiki Kaisha. Power supply system for memory unit of camera. 4,662,736, 5-5-87, Cl. 354-412.000.
Taniguchi, Nobuyuki; Omaki, Takanobu; Ishikawa, Norio; Nakai, Masaaki; Ishida, Tokuji; and Hamada, Masataka, to Minolta Camera Kabushiki Kaisha. Automatic focusing camera. 4,702,584, 10-27-87, Cl. 354-400.000.
Taniguchi, Nobuyuki; Niwa, Masatake; Fujii, Akira; Hoda, Takeo; Nakai, Masaaki; Sekida, Minoru; and Sahara, Masayoshi, to Minolta Camera Kabushiki Kaisha. Camera system. 4,712,904, 12-15-87, Cl. 354-475.000.
Taniguchi, Nobuyuki; Ishida, Tokuji; Hamada, Masataka; Karasaki, Toshihiko; and Norita, Toshio, to Minolta Camera Kabushiki Kaisha. Focus condition detecting device. 4,716,434, 12-29-87, Cl. 354-408.000.
Taniguchi, Nobuyuki: *See*—
Akada, Yasuaki; Ishikawa, Norio; Egawa, Takeshi; and Taniguchi, Nobuyuki, 4,671,640, Cl. 354-402.000.
Hoda, Takeo; Taniguchi, Nobuyuki; and Seigenji, Kiyoshi, 4,676,616, Cl. 354-21.000.
Mukai, Hiromu; Yamaki, Toshio; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,705,382, Cl. 354-412.000.
Nakai, Masaaki; Sahara, Masayoshi; and Taniguchi, Nobuyuki, 4,639,112, Cl. 354-455.000.
Nakai, Masaaki; Sahara, Masayoshi; and Taniguchi, Nobuyuki, 4,673,275, Cl. 354-412.000.
Nakai, Masaaki; Izumi, Shuji; Fujino, Akihiko; Taniguchi, Nobuyuki; Yamaki, Toshio; and Mukai, Hiromu, 4,690,536, Cl. 354-402.000.
Yamaki, Toshio; Mukai, Hiromu; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,693,581, Cl. 354-400.000.
Taniguchi, Osamu; Okada, Shinjiro; and Ando, Yujiro, to Canon Kabushiki Kaisha. Color image forming apparatus comprising ferroelectric smectic liquid crystal having at least two stable states. 4,712,878, 12-15-87, Cl. 350-350.00S.
Taniguchi, Seiho: *See*—
Kotani, Kunio; Hayashi, Akio; and Taniguchi, Seiho, 4,648,986, Cl. 252-511.000.
Taniguchi, Shin: *See*—
Yamada, Koichi; Hiraiwa, Ichiro; Taniguchi, Shin; and Zengo, Toshinari, 4,680,109, Cl. 210-103.000.
Taniguchi, Shin ichi, to Takeda Chemical Industries, Ltd. Article supply apparatus. 4,673,077, 6-16-87, Cl. 198-393.000.
Taniguchi, Shinichi; Akashi, Akiru; and Ujii, Yasuo, to Konishiroku Photo Industry Co., Ltd. Automatic processor. 4,669,847, 6-2-87, Cl. 354-298.000.
Taniguchi, Shunro: *See*—
Endo, Hideki; Hashimoto, Kazuto; Tanaka, Kenji; Matsumoto, Takeshi; Igi, Keishiro; Okamura, Takayuki; Taniguchi, Shunro; Ishii, Masao; Murata, Yoshifumi; and Yokota, Shinichi, 4,657,973, Cl. 525-67.000.
Hirai, Koji; Taniguchi, Shunro; Ishiguro, Michihiro; Murata, Yoshifumi; Yokota, Shinichi; Ishii, Masao; Yoshimura, Noriaki; and Okamura, Takayuki, 4,639,471, Cl. 521-172.000.
Taniguchi, Tadashi: *See*—
Kondo, Shoji; and Taniguchi, Tadashi, 4,652,760, Cl. 250-363.05.
Taniguchi, Tadatsugu: *See*—
Itoh, Seiga; Nishi, Tatsunari; Mizukami, Tamio; Matsumoto, Tadashi; Oka, Tetsuo; Taniguchi, Tadatsugu; and Sugano, Haruo, 4,686,191, Cl. 435-320.000.
Taniguchi, Takao: *See*—
Moroto, Shuzo; Taniguchi, Takao; and Sakakibara, Shin, 4,673,071, Cl. 192-3.210.
Taniguchi, Takuji: *See*—
Sumiya, Koji; Sakaguchi, Yoshikazu; Taniguchi, Takuji; Taga, Yutaka; and Shindo, Yoshio, 4,697,474, Cl. 74-733.000.
Taniguchi, Tomizo: *See*—
Matsumoto, Fujio; Doi, Hajime; Mizushima, Kunio; Funahashi, Masaya; Taniguchi, Tomizo; and Sakamoto, Shoichi, 4,709,816, Cl. 206-444.000.
Taniguchi, Tomoyasu: *See*—
Kisumi, Masahiko; Komatsubara, Saburo; and Taniguchi, Tomoyasu, 4,692,409, Cl. 435-109.000.
Taniguchi, Toshihiko; and Miki, Yukio, to Minolta Camera Kabushiki Kaisha. Illuminating angle adjusting apparatus for an electronic flash device. 4,682,273, 7-21-87, Cl. 362-18.000.
Taniguchi, Toshikatsu: *See*—
Yoshinaka, Toshio; Taniguchi, Toshikatsu; Ida, Shuichiro; Nagano, Shuji; Kimura, Shigeru; and Tanaka, Yasuo, 4,711,136, Cl. 74-665.0GA.
Taniguchi, Tsutomu: *See*—
Ohba, Masatoshi; Sato, Ryuichi; and Taniguchi, Tsutomu, 4,654,555, Cl. 310-332.000.
Ohba, Masatoshi; Sato, Ryuichi; and Taniguchi, Tsutomu, 4,658,155, Cl. 307-154.000.
Sato, Ryuichi; Taniguchi, Tsutomu; and Ohba, Masatoshi, 4,654,553, Cl. 310-316.000.
Taniguchi, Yasushi, to Canon Kabushiki Kaisha. Metallic rotational polygon mirror. 4,643,518, 2-17-87, Cl. 350-6.800.
Taniguchi, Yasushi: *See*—
Sawamura, Mitsuharu; and Taniguchi, Yasushi, 4,714,308, Cl. 350-1.700.
Taniguchi, Yasutaka: *See*—
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Kumagai, Naotake; and Tatemoto, Minoru, 4,673,193, Cl. 280-707.000.
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,695,074, Cl. 280-707.000.
Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,639,014, Cl. 280-707.000.
Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,640,526, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,669,749, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Takizawa, Shozo; Kumagai, Naotake; and Tatemoto, Minoru, 4,669,750, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,697,237, Cl. 364-424.000.

Taniguchi, Yoshiaki: *See*—
Ohe, Takeshi; Taniguchi, Yoshiaki; and Arai, Minoru, 4,686,438, Cl. 318-280.000.

Taniguchi, Yoshiteru: *See*—
Takeda, Takao; Yamazaki, Hitoshi; Taniguchi, Yoshiteru; Tanaka, Norihiko; Ito, Hiroshi; Uchida, Minoru; and Imai, Jun, 4,703,227, Cl. 313-634.000.

Taniguchi, Yoshiya, to Toyo Machinary & Metal Co., Ltd. Injection molder. 4,695,238, 9-22-87, Cl. 425-145.000.

Taniguchi, Yoshiyuki; and Hirano, Motoki, to Nissan Motor Company, Limited. Keyless entry system for automotive devices with feature for giving caution for locking wireless code transmitter in vehicle. 4,670,746, 6-2-87, Cl. 340-825.310.

Taniguchi, Yukio, to Dai Nippon Insatsu Kabushiki Kaisha. Identification article with pattern-form fresnel hologram, fabrication thereof, and verification thereof. 4,677,285, 6-30-87, Cl. 235-488.000.

Taniguchi, Yutaka: *See*—
Kato, Hisatoyo; Kawai, Yasuhiro; Ohara, Yuji; Okamoto, Yoshihiko; Taniguchi, Yutaka; and Horikawa, Kazuo, 4,676,582, Cl. 350-6.500.

Taniguti, Ryosuke; Kohmo, Hidenori; Kubo, Manabu; and Ikeda, Takashi, to Mitsubishi Denki Kabushiki Kaisha. System for measuring three-dimensional coordinates. 4,688,184, 8-18-87, Cl. 364-560.000.

Taniguti, Ryousuke, to Mitsubishi Denki Kabushiki Kaisha. Vibration monitoring apparatus. 4,683,542, 7-28-87, Cl. 364-508.000.

Tanihata, Ryoichi: *See*—
Inoue, Masayoshi; Hirano, Kenichiro; and Tanihata, Ryoichi, 4,682,353, Cl. 379-163.000.

Tanihira, Tadashi: *See*—
Sakai, Tsuneo; Tanihira, Tadashi; and Ito, Yoshio, 4,654,884, Cl. 455-183.000.

Tanii, Junichi; Yamaki, Toshio; and Seigenji, Kiyoshi, to Minolta Camera Kabushiki Kaisha. Electrical connecting terminal. 4,687,266, 8-18-87, Cl. 439-77.000.

Tanii, Junichi; and Maekawa, Yukio, to Minolta Camera Kabushiki Kaisha. Positioning mechanism for positioning auxiliary optical device relative to main optical device and the auxiliary optical device. 4,712,871, 12-15-87, Cl. 350-257.000.

Tanishi, Shinnosuke: *See*—
Kubota, Atsushi; Tanishi, Shinnosuke; Sasaki, Shinichi; Kimura, Akiyoshi; and Koike, Michiro, 4,708,455, Cl. 355-3.00R.

Tanikawa, Isao: *See*—
Maruhashi, Yoshitsugu; Tanikawa, Isao; and Hirata, Sadao, 4,699,809, Cl. 427-230.000.
Maruhashi, Yoshitsugu; Tanikawa, Isao; and Hirata, Sadao, 4,714,580, Cl. 264-516.000.

Tanikawa, Masayoshi: *See*—
Furuta, Yohichi; Yamasaki, Takeo; Tachino, Tomio; and Tanikawa, Masayoshi, 4,643,043, Cl. 74-503.000.

Tanikawa, Shinji; and Nawa, Koichiro, to Yoshida Kogyo K. K. Device for mounting a prefabricating curtain wall unit to a floor structure. 4,662,135, 5-5-87, Cl. 52-235.000.

Tanikawa, Shinji; and Nawa, Koichiro, to Yoshida Kogyo K. K. Prefabricated curtain wall assembly having both window and spandrel units. 4,662,136, 5-5-87, Cl. 52-235.000.

Tanikawa, Shinji; and Nawa, Koichiro, to Yoshida Kogyo K. K. Prefabricated curtain wall assembly having both window and spandrel units, and method of installation. 4,662,145, 5-5-87, Cl. 52-745.000.

Tanikawa, Shinji, to Yoshida Kogyo K. K. Watertight windowsill construction. 4,715,152, 12-29-87, Cl. 52-209.000.

Tanikawa, Shoji: *See*—
Enomoto, Ryo; Yamauchi, Hidetoshi; and Tanikawa, Shoji, 4,664,946, Cl. 427-126.200.

Tanimoto, Akikazu; Matsuura, Toshio; Murakami, Seiro; Uehara, Makoto; and Suwa, Kyoichi, to Nippon Kogaku K. K. Alignment apparatus. 4,677,301, 6-30-87, Cl. 250-548.000.

Tanimoto, Akikazu; Ishizaka, Shoji; Endo, Yutaka; Suzuki, Hiroyuki; and Yanagihara, Masamitsu, to Nippon Kogaku K. K. Projection optical apparatus. 4,687,322, 8-18-87, Cl. 355-55.000.

Tanimoto, Akikazu; and Imamura, Kazunori, to Nippon Kogaku K. K. Projection exposure apparatus. 4,690,528, 9-1-87, Cl. 353-101.000.

Tanimoto, Akikazu; Matsuura, Toshio; and Suwa, Kyoichi, to Nippon Kogaku K. K. Process of transfer of mask pattern onto substrate and apparatus for alignment therebetween. 4,699,515, 10-13-87, Cl. 356-40.000.

Tanimoto, Akikazu; and Ishizaka, Shoji, to Nippon Kogaku K. K. Projection optical apparatus. 4,701,606, 10-20-87, Cl. 250-201.000.

Tanimoto, Akikazu, to Nippon Kogaku K. K. Exposure apparatus. 4,711,567, 12-8-87, Cl. 355-53.000.

Tanimoto, Akikazu: *See*—
Hazama, Junji; Kato, Kinya; Tanimoto, Akikazu; and Izawa, Hisao, 4,636,626, Cl. 250-201.000.
Kodama, Kenichi; Tanimoto, Akikazu; Izawa, Hisao; Ueshima, Yoichi; and Hazama, Junji, 4,685,805, Cl. 356-373.000.
Matsuura, Toshio; Murakami, Seiro; Imai, Yuji; Ohta, Kazuya; and Tanimoto, Akikazu, 4,702,606, Cl. 356-401.000.

Tanimoto, Akira, to Kabushiki Kaisha Toshiba. Current limiting type circuit breaker. 4,644,307, 2-17-87, Cl. 335-16.000.

Tanimoto, Akira; and Masuzawa, Sigenki, to Sharp Kabushiki Kaisha. Alphabetizing Japanese words in a portable electronic language interpreter. 4,658,374, 4-14-87, Cl. 364-900.000.

Tanimoto, Fumio: *See*—
Inoue, Yoshiharu; Tanimoto, Fumio; and Kitano, Hisao, 4,693,844, Cl. 512-14.000.

Tanimoto, Hiretoshi: *See*—
Yamada, Mutsuo; Nishimura, Yasuyuki; Arikawa, Yoshijiro; Kuwahara, Takanori; Kamiguchi, Taiji; and Tanimoto, Hiretoshi, 4,691,053, Cl. 562-531.000.

Tanimoto, Junichi: *See*—
Hirano, Takaaki; Kamuro, Setsufumi; Yamaguchi, Akira; Tanimoto, Junichi; and Okada, Mikiro, 4,694,393, Cl. 364-200.000.

Tanimoto, Masahiro: *See*—
Tsuji, Katsuya; Tanimoto, Masahiro; Hirano, Akihiro; and Yamada, Takeshi, 4,705,609, Cl. 422-93.000.

Tanimoto, Masayuki. Bandwidth compression system. 4,675,733, 6-23-87, Cl. 358-138.000.

Tanimoto, Shigemi: *See*—
Ootsuka, Ryotatsu; Tanimoto, Shigemi; and Toyoda, Kazuo, 4,670,050, Cl. 75-68.00R.

Tanimoto, Tetsuyuki: *See*—
Imura, Kenji; and Tanimoto, Tetsuyuki, 4,664,515, Cl. 356-43.000.
Kimura, Kazuo; Tanimoto, Tetsuyuki; and Kobayashi, Hiroshi, 4,697,878, Cl. 350-162.110.
Yasumoto, Hidetoshi; and Tanimoto, Tetsuyuki, 4,640,609, Cl. 355-37.000.

Tanimoto, Wataru; and Tsunoyama, Kouzou, to Kawasaki Steel Corporation. Method of laser emission spectroscopic analysis of steel and apparatus therefor. 4,645,342, 2-24-87, Cl. 356-318.000.

Tanimoto, Wataru: *See*—
Tsunoyama, Kouzou; Tanimoto, Wataru; Ohashi, Yoshiharu; Kimura, Shigeyuki; and Asakawa, Fumio, 4,652,128, Cl. 356-318.000.

Tanimoto, Yasufumi, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,681,425, 7-21-87, Cl. 355-14.0CU.

Tanimoto, Yoshihiro, to Sanyo Electric Co., Ltd. Electrostatic recording apparatus. 4,652,111, 3-24-87, Cl. 355-3.0DD.

Tanimoto, Yoshihiro: *See*—
Kohmoto, Yujiro; and Tanimoto, Yoshihiro, 4,684,235, Cl. 355-3.00R.

Tanimoto, Yoshiji: *See*—
Tanaka, Jouji; Watanabe, Tetunobu; Tanimoto, Yoshiji; and Okumura, Minoru, 4,641,337, Cl. 379-162.000.
Tanaka, Kinzi; Tagawa, Toru; Tanimoto, Yoshiji; and Okumura, Minoru, 4,660,219, Cl. 379-164.000.

Tanimoto, Yoshio; and Iketani, Kohichi, to Sumitomo Chemical Company, Limited. Rubber compositions. 4,708,992, 11-24-87, Cl. 525-313.000.

Tanimura, Nobuyoshi; and Kawamoto, Hiroshi, to Hitachi, Ltd. Semiconductor memory device including an improved data refreshing arrangement and a system employing the same. 4,660,180, 4-21-87, Cl. 365-222.000.

Tanimura, Nobuyoshi; and Yasui, Tokumasa, to Hitachi, Ltd. Semiconductor memory device and fabrication process thereof. 4,712,192, 12-8-87, Cl. 365-51.000.

Tanimura, Yoshihisa: *See*—
Katoh, Takashi; and Tanimura, Yoshihisa, 4,650,298, Cl. 350-602.000.

Tanino, Junichi, to Mitsubishi Denki Kabushiki Kaisha. Signal transmission apparatus. 4,639,912, 1-27-87, Cl. 370-86.000.

Tanino, Katsumi; Kiuchi, Norihiro; Tominaga, Chikara; Itoh, Eiji; Ogino, Kiyoshi; Yahagi, Masataka; and Sakamoto, Masaru, to Toyama Prefecture; and Nippon Mining Co., Ltd. Humidity-sensing element. 4,656,455, 4-7-87, Cl. 338-35.000.

Tanino, Masahiro; and Higuchi, Tomoyuki, to Sanyo Kiki Kabushiki Kaisha. Speedup device for hydraulic control circuit systems. 4,635,532, 1-13-87, Cl. 91-436.000.

Taniока, Hiroshi; Yamakawa, Tadashi; Inoue, Yutaka; Hosaka, Masao; Yagasaki, Toshiaki; Kasama, Nobuhiro; and Kurata, Mitsuru, to Canon Kabushiki Kaisha. Image processing system. 4,646,249, 2-24-87, Cl. 364-518.000.

Taniока, Hiroshi; and Ueda, Noriyoshi, to Canon Kabushiki Kaisha. Image reader suitable for manual scanning. 4,684,998, 8-4-87, Cl. 358-293.000.

Taniока, Hiroshi, to Canon Kabushiki Kaisha. Image signal processor. 4,698,690, 10-6-87, Cl. 358-283.000.

Taniока, Hiroshi; Ogino, Yoshitaka; Inoue, Yutaka; Naito, Masataka; and Hayakawa, Kimiaki, to Canon Kabushiki Kaisha. Image reading and converting apparatus. 4,706,128, 11-10-87, Cl. 358-286.000.

Taniока, Hiroshi, to Canon Kabushiki Kaisha. Image processing apparatus. 4,709,274, 11-24-87, Cl. 358-283.000.

Taniока, Hiroshi; and Honma, Toshio, to Canon Kabushiki Kaisha. Copying apparatus with variable image magnification. 4,711,558, 12-8-87, Cl. 355-14.00R.

Taniока, Hiroshi: *See*—
Inoue, Yutaka; Kurata, Mitsuru; Kasama, Nobuhiro; Hosaka, Masao; Yagasaki, Toshiaki; Taniока, Hiroshi; and Yamakawa, Tadashi, 4,714,940, Cl. 355-3.00R.

Taniока, Katsuhiko: *See*—
Bando, Yoshiaki; Asano, Teruyoshi; Kato, Shigenobu; and Taniока, Katsuhiko, 4,678,161, Cl. 251-171.000.

Taniока, Norio; Kimura, Hisayoshi; and Suzuki, Isamu, to Hitachi Cable, Ltd. Device for securing a brake hose at an intermediate portion thereof to an appropriate point in a vehicle body. 4,674,719, 6-23-87, Cl. 248-56.000.

Taniока, Tsuyoshi: *See*—
Otsuka, Akira; Shinoda, Tsutae; Horio, Kenji; and Taniока, Tsuyoshi, 4,684,849, Cl. 315-169.400.

Tanseko, Shozo: See—
Makita, Masaharu, Tanseko, Shozo, and Tenda, Takayasu, 4,654,393, Cl. 526-240.000
Mikita, Masaharu, Tanseko, Sozzo, and Tenda, Takayasu, 4,703,067, Cl. 521-61.000
Tanushima, Yasuo: See—
Tetsu, Sadayuki and Tanushima, Yasuo, 4,685,034, Cl. 361-424.000
Tanita, Yoshio: See—
Murata, Yoshimori, and Tanita, Yoshio, 4,645,440, Cl. 418-178.000
Tanuchi, Kazuman: See—
Miyata, Takahide, Iwashita, Kanao, Tanuchi, Kazuman, Yamamoto, Hiroshi, and Nakamichi, Katsuhiro, 4,672,925, Cl. 123-65.0PE
Tanyama, Kiyoshi, and Hori, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. Lubrication mechanism to final drive and differential unit, 4,677,871, 7-7-87, Cl. 74-467.000
Tanyama, Kiyoshi: See—
Hori, Hiroshi, and Tanyama, Kiyoshi, 4,656,885, Cl. 74-467.000
Tanyama, Moriyu: See—
Mase, Masahiro, Nagaoka, Takashi, Tomomi, Yoshitsugu, Tanyama, Minoru, and Terajima, Makoto, 4,668,160, Cl. 415-90.000
Tanyama, Seiro, to Sony Corporation. Digital information signal encoding method with reduced run length and improved self-clocking, 4,677,421, 6-30-87, Cl. 340-347.0DD
Tanyama, Tadyoshi, and Yoshida, Koichi, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for production of biologically active substances, 4,711,842, 12-8-87, Cl. 435-68.0(5)
Tanzaki, Yasunobu: See—
Yasuoka, Hideki, Tanzaki, Yasunobu, Moramatsu, Akira, and Anzai, Norio, 4,662,057, Cl. 29-571.000
Tanzawa, Mitsumasa: See—
Taniguchi, Hiroshi, Tanzawa, Mitsumasa, and Ueno, Masatoshi, 4,687,311, Cl. 354-320.000
Tanzawa, Tetsu, and Ohba, Osam, to Fujitsu Limited. Complementary logic circuit, 4,654,548, 3-31-87, Cl. 307-450.000
Tanzawa, Tetsu, to Fujitsu Limited. Master slice IC device, 4,682,202, 7-21-87, Cl. 357-45.000
Tanzawa, Tetsu, and Ohba, Osam, to Fujitsu Limited. Logical biMOS gate circuit having low power dissipation, 4,716,310, 12-29-87, Cl. 307-446.000
Tanzi, Akihito: See—
Yoshida, Tetzo, Tanji, Akihito, Maruda, Masamitsu, and Koyama, Isao, 4,645,293, Cl. 350-96.140
Tanji, Hiroaki, Suzuki, Masaharu, Nomura, Kenji, Watanabe, Shojiro, and Kawasaki, Takashi, to Denki Kagaku Kogyo Kabushiki Kaisha. Pyrolytic boron nitride article, 4,690,841, 9-1-87, Cl. 428-35.000
Tank, Eggert, Hedrich, Dieter, and Straub, Peter, to Daimler-Benz Aktiengesellschaft. Process for producing fiber-reinforced light-metal castings, 4,653,569, 3-31-87, Cl. 164-97.000
Tank, Klaus, and Tomlinson, Peter N., to DeBeers Industrial Diamond Division (Proprietary). Mining machine cutter pick insert, 4,679,858, 7-14-87, Cl. 299-91.000
Tank, Volker, to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Method of and arrangement for an interferometer, 4,652,130, 3-24-87, Cl. 356-346.000
Tankmaster Limited: See—
Cornelius, John, 4,669,309, Cl. 73-299.000
Tanko, Robert J.: See—
Ramirez, Jose E., Tanko, Robert J., Vishnupad, Mohan, and Schmitt, William H., 4,654,213, Cl. 424-145.000
Tanksystem A/S: See—
Hope, Bjorn R., 4,635,478, Cl. 73-292.000
Tanna, Himatlal K.: See—
Salikuddin, Mohammed, and Tanna, Himatlal K., 4,689,821, Cl. 381-71.000
Tanne, Emanuel: Automatic corneal surgery system, 4,665,914, 5-19-87, Cl. 128-305.000
Tanne, Emanuel: Automatic corneal surgery system, 4,691,715, 9-8-87, Cl. 128-774.000
Tanne, Emanuel: Automatic corneal surgery system, 4,691,716, 9-8-87, Cl. 128-774.000
Tannenbaum, Harvey P., to Du Pont de Nemours, E. I., and Company. Aqueous ink for use on fluorocarbon surfaces, 4,711,802, 12-8-87, Cl. 428-207.000
Tannenhauer, Gerd, to Ford Motor Company. Adjusting mechanism for a Bowden cable, 4,638,679, 1-27-87, Cl. 74-501.00R
Tanner, Alan R.: See—
Hale, Cecil H., Tanner, Alan R., and Hale, Bryan M., 4,714,530, Cl. 204-131.000
Tanner, Colin R.: See—
Kesh, Hans W., and Tanner, Colin R., 4,688,953, Cl. 384-615.000
Tanner, Dale: Metering pump, 4,661,049, 4-28-87, Cl. 417-418.000
Tanner, David P.: See—
Berman, Elliot, Gay, Charles F., Miller, Stephen C., and Tanner, David P., 4,663,495, Cl. 176-248.000
Tanner, Harley L., III, and Allen, Joseph C., to Texaco Inc. Petroleum reservoir flooding method, 4,639,596, 1-27-87, Cl. 250-259.000
Tanner, Herbert, Bertram, Heidrun-Leonore, Richter, Reinhard, and Spoullier, Manfred, to Degussa Aktiengesellschaft. Use of aqueous sodium or potassium methionimate solution for supplemental mixed fodders with methionine, 4,705,689, 11-10-87, Cl. 426-2.000
Tanner, Howard M. C.: See—
Chaffee, Edwin G., Holtman, Steve, Nelson, George A., and Tanner, Howard M. C., 4,633,872, Cl. 128-303.10E
Tanner, Jay: See—
Birnbach, Curtis, and Tanner, Jay, 4,647,154, Cl. 350-362.120
Birnbach, Curtis, and Tanner, Jay, 4,653,855, Cl. 350-363.000
Birnbach, Curtis, and Tanner, Jay, 4,670,894, Cl. 378-122.000
Birnbach, Curtis, and Tanner, Jay, 4,710,939, Cl. 372-73.000
Tanner, Jerome: See—
Kieff, Elliott, Tanner, Jerome, Hummel, Mary, and Bensel, Christopher, 4,707,358, Cl. 424-89.000
Tanner, John F., and Wedge, Robert, to Lloyd Engineering Co Ltd. Manufacture of piston rings, 4,651,395, 3-24-87, Cl. 29-156.800
Tanner, Paul W. Window protection, 4,637,444, 1-20-87, Cl. 160-91.00
Tanner, Rene', Calderara, Reto, Wenger, Alfred, and Senftenegger, Hans-Conrad, to Kristal Instrumente AG. Pressure transducer utilizing a transduction element, 4,675,643, 6-23-87, Cl. 338-4.000
Tanner, Rotty, and Parhonen, Hannu. Means for indicating drastic and a method of determining a direction, 4,680,036, 7-14-87, Cl. 33-356.000
Tanner, Robert A., to Dixon International Limited. Ventilator device, 4,715,268, 12-29-87, Cl. 98-41.100
Tannhaeuser, Rolf, and Herrmann, Franz, to Siemens Aktiengesellschaft. Apparatus for generating patterns of test signals, 4,667,93, 9-8-87, Cl. 371-27.000
Tannhauser, Robert J.: See—
Florez, Hugo R., and Tannhauser, Robert J., 4,655,222, Cl. 128-334.00R
Tanno, Kohetsu: See—
Kuroga, Yukinori, Endo, Nobuhiro, and Tanno, Kohetsu, 4,637,127, Cl. 29-576.00E
Tanno, Masao: See—
Tomita, Kazuyuki, and Tanno, Masao, 4,630,539, Cl. 250-440.00
Tanno, Minoru: See—
Fukuta, Kenji, Komiyama, Mamoru, Kawamura, Kazuo, and Tanno, Minoru, 4,703,894, Cl. 239-414.000
Tanno, Norihiko: See—
Ishizumi, Kikuo, Ohashi, Nachito, Tanno, Norihiko, Sato, Ryoji, Fukui, Masaru, and Mizusaki, Shinya, 4,677,585, Cl. 514-4.00
Tanno, Satoshi: See—
Tanaka, Hiroyoshi, Adachi, Masaaki, Tsuda, Yoshiyuki, Asada, Shigeo, Tanno, Satoshi, and Kato, Kaoru, 4,691,797, Cl. 165-151.000
Tanno, Tomiya: See—
Yoshida, Daisuke, Tanno, Tomiya, and Fukunaga, Taizo, 4,672,811, Cl. 60-449.000
Tanno, Yoshikazu, to Kabushiki Kaisha Toshiba. Zinc oxide varistor and method of making it, 4,700,169, 10-13-87, Cl. 338-21.000
Tanny, Michael W., to Unit Industries, Inc. Circuit board editing device, 4,637,541, 1-20-87, Cl. 228-180.100
Tano, Kazuhiro: See—
Yoshida, Makoto, Tano, Kazuhiro, Higuchi, Seizo, and Nakamura, Masato, 4,663,245, Cl. 428-632.000
Tano, Touru, Fujita, Akihiro, and Utsumi, Takayuki, to Kowa Company Ltd. Automatic focus adjustment apparatus, 4,660,068, 5-26-87, Cl. 354-403.000
Tano, Touru, Fujita, Akihiro, and Utsumi, Takayuki, to Kowa Company Ltd. Automatic focus adjustment apparatus, 4,692,032, 9-8-87, Cl. 354-403.000
Tanokura, Nobukazu: See—
Nishimura, Tetsuro, Tanokura, Nobukazu, and Urushibata, Masahiro, 4,657,535, Cl. 604-263.000
Tanoka, Shigeo, Mori, Yutaka, Ono, Akihiro, and Hasegawa, Ato, to Toyota Jidosha Kabushiki Kaisha. Control apparatus for power assisted steering system, 4,691,796, 9-8-87, Cl. 180-147.000
Tanoka, Shigeo: See—
Suzuki, Mikio, and Tanoka, Shigeo, 4,643,227, Cl. 137-625.00
Tanoue, Shohachi: See—
Morishita, Takashi, Hata, Takehisa, Mori, Mitsuo, and Tanoe, Shohachi, 4,695,466, Cl. 424-456.000
Tanoe, Hikaru, and Motomura, Kenichi, to Bridgestone Corporation. Pneumatic tire excellent in uneven wear resistance, 4,676,29, 6-30-87, Cl. 152-209.00R
Tansey, John. Femoral stem prosthesis, 4,661,501, 7-21-87, Cl. 623-23.000
Tansey, Richard J.: See—
Swain, David M., and Tansey, Richard J., 4,707,135, Cl. 356-347.000
Tansil, Thomas B.: See—
Matthews, Gordon H., Tansil, Thomas B., and Fannin, Michael L., 4,640,991, Cl. 379-88.000
Matthews, Gordon H., Tansil, Thomas B., and Fannin, Michael L., 4,652,700, Cl. 379-89.000
Tansill, Horace A. Means for fuel handling and storage having increased safety, 4,676,463, 6-30-87, Cl. 244-129.200
Tansony, John R., Langstaff, Scott A., and Tansony, Robert W., to Markland Specialty Engineering Ltd. Apparatus for detecting a interface in fluids utilizing plural multiplexed light emitters and receivers, 4,680,475, 7-14-87, Cl. 250-577.000
Tansony, Robert W.: See—
Tansony, John R., Langstaff, Scott A., and Tansony, Robert W., 4,680,475, Cl. 250-577.000
Tanton, George A.: See—
Walker, Clifford G., and Tanton, George A., 4,637,726, Cl. 356-367.000
Tantram, Anthony D. S., and Chan, Yat S., to City Technology Limited. Gas sensor, 4,633,708, 1-6-87, Cl. 73-23.000

Tantraporn, Wirojana. See—
Temple, Victor A. K., and Tantraporn, Wirojana, 4,648,174, Cl. 29-578.000.
Tantte, Jukka, to Instrumentarium Corp. NMR coil arrangement. 4,680,549, 7-14-87, Cl. 324-318.000.
Tanuma, Chiaki. See—
Hayashimoto, Yoshiaki; Tanuma, Chiaki; Yokoyama, Katsumori; and Harada, Noriomi, 4,634,884, Cl. 250-578.000.
Kondoh, You; and Tanuma, Chiaki, 4,689,514, Cl. 310-316.000.
Yokoyama, Katsumori; and Tanuma, Chiaki, 4,689,516, Cl. 310-317.000.
Tanuma, Hiroyuki. See—
Yamazaki, Nakamichi; Kubota, Takeshi; Hoshino, Yoshiharu; and Tanuma, Hiroyuki, 4,661,291, Cl. 252-629.000.
Tanuma, Isao. See—
Morimura, Yasuhiro; Fukuura, Yukio; Ishikawa, Hikaru; Tanuma, Isao; and Honda, Toshio, 4,707,397, Cl. 428-216.000.
Tanuma, Jiro. See—
Kikuchi, Hiroshi; Hayashi, Kuniharu; Isobe, Mineru; Tanuma, Jiro; and Mackawa, Masamori, 4,687,361, Cl. 400-322.000.
Tanuma, Yoshimi, and Watanabe, Hidetoshi, to Columbus Magnetic Products Co., Ltd. Cassette protective cover. 4,651,876, 3-24-87, Cl. 206-387.000.
Tanuki, Hiromune. See—
Yoshino, Shigeru; Ueki, Junzo; Shibuya, Ichiro; Kawada, Shigeo; Imo, Akira; Tanuki, Hiromune; and Murano, Kazuo, 4,670,979, Cl. 29-838.000.
Tanzi, Giancarlo. Method for producing footwear. 4,706,316, 11-17-87, Cl. 12-142.001.
Tanzilli, Richard A. See—
Morris, John R., Jr., and Tanzilli, Richard A., 4,666,873, Cl. 501-98.000.
Tao, Akihiko. See—
Maeda, Satoru; and Tao, Akihiko, 4,691,340, Cl. 379-96.000.
Tao, Frank, to CooperVision, Inc. Container with safety features for cleaning medical devices. 4,687,997, 8-18-87, Cl. 324-439.000.
Tao, Hiroaki, to Agency of Industrial Science & Technology, and Ministry of International Trade & Industry. Method for measurement of gas concentration. 4,699,314, 10-6-87, Cl. 436-171.000.
Tao, John C. See—
Shelley, Northshield; A.; and Tao, John C., 4,677,827, Cl. 60-648.000.
Taoda, Hiroshi. See—
Yamakita, Hiromi; Hayakawa, Kiyoshi; Tazawa, Masato; and Taoda, Hiroshi, 4,647,349, Cl. 204-59.000.
Taoda, Kiyomichi. See—
Hattori, Hirofumi; Yamazaki, Masayasu; Sasaki, Atsushi; Mikami, Keigo, deceased; Taoda, Kiyomichi; and Murakami, Mitsuharu, 4,669,976, Cl. 432-58.000.
Tapco Products Company, Inc. See—
Brost, Douglas G., 4,671,094, Cl. 72-319.000.
Rhoades, James J., 4,651,553, Cl. 72-319.000.
Tapemp Limited. See—
Lang, John, 4,712,098, Cl. 340-669.000.
Tapia, Graciano J., and Martinez, Oscar G., to Alcudia, Empresa para la Industria Quimica, S.A. Method for protecting plants using polymeric film containing anhydrous borax. 4,651,467, 3-24-87, Cl. 47-58.000.
Tapia, P. Hector L. Fuel injection pump by means of indirect control with elastic accessory. 4,662,828, 5-5-87, Cl. 417-368.000.
Taplin, John F. Supply control valve with integral pressure limiter. 4,637,431, 1-20-87, Cl. 137-596.150.
Taplin, Lael B., to Vickers, Incorporated. Power transmission. 4,675,230, 9-2-87, Cl. 417-216.000.
Tapmatic Corporation. See—
Johnson, Allan S., 4,795,437, Cl. 408-139.000.
Tapp, Michael R. See—
Buckman, William C., and Tapp, Michael R., 4,642,028, Cl. 416-95.000.
Tapps, Horst; Kruse, Hubert; Kuhn, Reinhard; Bode, Albert; and Boos, Margarete, to Casella Aktiengesellschaft. Mixtures of blue monoazo disperse dyestuffs and their use for dyeing polyester. 4,678,476, 7-7-87, Cl. 8-639.000.
Tapps, Wilhelm. See—
Fabian, Wolfgang; Kopineck, Hermann J.; and Tapps, Wilhelm, 4,674,309, Cl. 72-9.000.
Tappen, Gerhard. See—
Grill, Hans; and Tappen, Gerhard, 4,712,691, Cl. 211-49.100.
Tappermann, Henry; Vitzthum, Otto G.; and Seekamp, Heinrich, to General Foods Hag. Metering device for powdered material. 4,703,874, 11-3-87, Cl. 222-198.000.
Taprogge Gesellschaft mbH. See—
Ettner, Klaus; and Gebhardt, Wolfgang, 4,680,113, Cl. 210-181.000.
Gebhardt, Wolfgang, 4,676,302, Cl. 165-95.000.
Tarabichy, Sameh; and Miller, Barry. Revision arthroplasty method and related instrument. 4,702,236, 10-27-87, Cl. 128-92.00V.
Taragna, Luigi; and Giovannelli, Antonio, to Italcaps S.p.A. Warranty seal cap. 4,664,276, 5-12-87, Cl. 215-249.000.
Tarakad, Ramanathan R.; and Crawford, Duffer B., to M. W. Kellogg Company, The. Removal of mercury from gases. 4,693,731, 9-15-87, Cl. 55-72.000.
Taramasso, Marco; Manara, Giovanni; Fattore, Vittorio; and Notari, Bruno, to Snamprogetti, S.p.A. Silica-based synthetic materials containing boron in the crystal lattice and processes for their preparation. 4,656,016, 4-7-87, Cl. 423-277.000.
Taramasso, Marco; Manara, Giovanni; Fattore, Vittorio; and Notari, Bruno, to Snamprogetti, S.p.A. Silica-based synthetic material containing titanium in the crystal lattice and process for its preparation. 4,666,692, 5-19-87, Cl. 423-326.000.
Taramasso, Marco, deceased (by Gatti, Irene, heir); Notari, Bruno; Manara, Giovanni; and Bellussi, Giuseppe, to Snamprogetti, S.p.A. Process for preparing ZSM-5, large pore zeolite and ZSM-35. 4,687,654, 8-18-87, Cl. 423-329.000.
Tarascon, Jean-Marie, to Bell Communications Research, Inc. Secondary lithium battery including a lithium molybdate cathode. 4,710,439, 12-1-87, Cl. 429-194.000.
Tarasenko, Vladimir I. See—
Kostyley, Alexandr D.; Plachikh, Vladimir D.; Skachkov, Konstantin B.; Terskov, Alexei D.; Reznikov, Igor I.; and Tarasenko, Vladimir I., 4,697,647, Cl. 173-93.000.
Tarassoff, Serge, to Pomagalski S.A. Terminal for a detachable grip chairlift for gondola lift. 4,641,595, 2-10-87, Cl. 104-173.200.
Tarassoff, Serge, to Pomagalski S.A. Aerial ropeway transport installation with several sections. 4,669,389, 6-2-87, Cl. 104-173.200.
Tarassoff, Serge, to Pomagalski S.A. Device for driving cars or chairs of a gondola-lift or chair-lift in stations. 4,699,064, 10-13-87, Cl. 104-163.000.
Tarassoff, Serge, to Pomagalski S.A. Aerial ropeway transport installation with the rope stopping to detach the cars in the terminal. 4,712,486, 12-15-87, Cl. 104-173.100.
Taravel, Bernard, to Laboratoires Pharmascience. Brush having resiliently retractable bristles, in particular for brushing surfaces of complex shape, such as teeth. 4,633,542, 1-6-87, Cl. 15-167.00R.
Taravella, Jody J. See—
Astley, Vivian C., and Taravella, Jody J., 4,710,366, Cl. 423-321.00R.
Mollere, Phillip D.; Astley, Vivian C.; and Taravella, Jody J., 4,657,559, Cl. 23-297.000.
Tarbell, Harlan E., and Mielbo, Melvin J., to Grefco, Inc. Method for the treatment of mineral extender fillers. 4,671,973, 6-9-87, Cl. 427-215.000.
Tarbell, Robert J. Wheeled truck. 4,669,944, 6-2-87, Cl. 414-476.000.
Tarchini, Claudio, to Firmenich SA. 1,2,3,4,4a,5,8,8a-octahydro-2,2,6,8-tetramethyl-1-naphthalenol, its use as perfuming ingredient and process for making same. 4,671,798, 6-9-87, Cl. 8-522.000.
Tarcsafalvi, Andras, to Magyar Optikai Muvek. Vertical shaft system for gyroscopic theodolites with two degrees of freedom. 4,635,375, 1-13-87, Cl. 33-318.000.
Tardiff, George E. Practice putting ball. 4,664,387, 5-12-87, Cl. 273-183.000.
Tardy, John, to American Telephone and Telegraph Company AT&T Technologies, Inc. Off-line series type regulating power supply. 4,710,697, 12-1-87, Cl. 323-239.000.
Tardy, Maurice, to Bennes Marrel. Speed limiting device designed to equip the slide valve of a hydraulic system. 4,633,762, 1-6-87, Cl. 91-461.000.
Tardy, Maurice. Assisted slide for pressure compensation in a hydraulic distributor. 4,649,951, 3-17-87, Cl. 137-596.000.
Tardy, Michel. See—
Desmard, Adrien; Esertier, Michel; Rolhs, Claude; Tayot, Jean-Louis; and Tardy, Michel, 4,675,384, Cl. 530-364.000.
Tayot, Jean-Louis; and Tardy, Michel, 4,673,734, Cl. 530-364.000.
Tarello, William R.; Gordon, Linda A.; and Whalen, T. Daniel, to Survival Technology, Inc. Cartridge with universal plastic hub. 4,713,061, 12-15-87, Cl. 604-200.000.
Tarello, William R. See—
Sarnoff, Stanley J.; Tarello, William R.; Lopez, Claudio; and Karcher, Daniel W., 4,689,042, Cl. 604-93.000.
Targa Electronics Systems Inc. See—
Foster, William R., 4,642,759, Cl. 364-200.000.
Targa, Giorgio; and Russo, Vitaliano. Rope making machine. 4,640,097, 2-3-87, Cl. 57-58.360.
Targa Pascual, Juan. Supercharger system for use with heat engines. 4,688,383, 8-25-87, Cl. 60-599.000.
Target Concepts Inc. See—
Kahl, William; and Settanni, Richard, 4,703,171, Cl. 250-221.000.
Target Rock Corporation. See—
Liannios, Vito, 4,650,155, Cl. 251-118.000.
Wells, Robert A., 4,699,351, Cl. 251-29.000.
Target Therapeutics. See—
Daniels, John R.; Engelson, Erik T.; and Vegh, Gabriel B., 4,655,746, Cl. 604-53.000.
Daniels, John R., 4,708,718, Cl. 604-53.000.
Targetti, Giampaolo, to Targetti Sankey S.p.A. Assembly of components trestle type for outside fittings. 4,633,624, 1-6-87, Cl. 52-28.000.
Targetti, Giampaolo, to Targetti Sankey S.p.A. Assembly with a lamp to be embedded having a member that can be engaged in the embedding seat and forming the housing for the lamp. 4,636,924, 1-13-87, Cl. 362-277.000.
Targetti, Giampaolo. Expansion clamp for the connection of coinciding ends of hollow components of reticular structures and the like. 4,657,426, 4-14-87, Cl. 403-297.000.
Targetti Sankey S.p.A. See—
Targetti, Giampaolo, 4,633,624, Cl. 52-28.000.
Targetti, Giampaolo, 4,636,924, Cl. 362-277.000.
Targos, Tom S. See—
Seyferth, Dietmar; Yu, Yuan-Fu; and Targos, Tom S., 4,705,837, Cl. 528-31.000.
Targos, William M., to UOP Inc. Method of making a catalyst composition comprising uniform size metal components on carrier. 4,714,693, 12-22-87, Cl. 502-261.000.

Targos, William M.: *See*—
Abrevaya, Hayim; and Targos, William M., 4,714,692, Cl. 502-261.000.

Tari, Gabor; Bereczki, Gabor; and Blaskovics, Ferenc, to Metripond Merleggyar. Head restraining device for operating procedures on the head, 4,700,691, 10-20-87, Cl. 128-1.00R.

Tari, Lynda G. Immobilizing arm support, 4,662,366, 5-5-87, Cl. 128-134.000.

Tarin, Bernard: *See*—
Saccomani, Daniel; and Tarin, Bernard, 4,644,705, Cl. 52-27.000.

Tarjan, Peter P.: *See*—
DeCote, Robert, Jr.; and Tarjan, Peter P., 4,640,285, Cl. 128-419.0PT.

Tarkett AB: *See*—
Sachs, Peter R.; and Sears, James W., 4,675,234, Cl. 428-328.000.

Tarleton, George K.: *See*—
Abrant, Robert J.; Martys, Michael D.; and Tarleton, George K., 4,703,421, Cl. 364-200.000.
Abrant, Robert J.; Martys, Michael D.; and Tarleton, George K., 4,703,452, Cl. 364-900.000.

Tarli, Paolo: *See*—
Berretti, Rodolfo; Tarli, Paolo; and Berti, Brunilde, 4,643,974, Cl. 435-287.000.
Fabrizi, Paolo; Provvedi, Alessandro; and Tarli, Paolo, 4,666,864, Cl. 436-516.000.
Tabacco, Alessandro; Moda, Edoardo; and Tarli, Paolo, 4,703,015, Cl. 436-74.000.

Tarlow, Kenneth: Combination spotlight and table lamp, 4,635,413, 1-20-87, Cl. 362-242.000.

Tarlow, Kenneth A.; and Ridgley, Brad, to Ridgley, Brad: Tea brewer and dispenser combination, 4,683,812, 8-4-87, Cl. 99-289.00R.

Tarmac Construction Limited: *See*—
Ash, Dennis E., 4,633,638, Cl. 52-562.000.

Tarman, Paul B.: *See*—
Bodle, William W.; and Tarman, Paul B., 4,692,238, Cl. 208-407.000.
Ghosh, Sambhunath; Chynoweth, David P.; and Tarman, Paul B., 4,696,746, Cl. 210-603.000.
Lee, Bernard S.; Tarman, Paul B.; and Punwani, Dharam V., 4,693,682, Cl. 432-15.000.

Tarn-Pure Limited: *See*—
Hayes, John, 4,680,114, Cl. 210-192.000.

Tarnai, Gyorgy, to Vasipari Kutato es Fejleszto Vallalat: Control specimen for evaluation of non-destructive test results, artificial inclusions and process for producing control specimens, 4,704,892, 11-10-87, Cl. 73-1.0DV.

Tarnawski, Andrzej S.: *See*—
Hollander, Dazvel; and Tarnawski, Andrzej S., 4,668,704, Cl. 514-560.000.
Hollander, Daniel; and Tarnawski, Andrzej S., 4,670,468, Cl. 514-560.000.

Tarnay, Denes, to General Electric Company: Sealed headlamp, 4,665,471, 5-12-87, Cl. 362-267.000.

Tarnay, Denes: *See*—
Matheson, Robert R.; Tarnay, Denes; and Kolench, Peter, 4,654,760, Cl. 362-80.000.

Tarnay, Matthew; and Szemeredi, Robert, to Price Pfister, Inc: Water faucet inlet line connector, 4,655,486, 4-7-87, Cl. 285-340.000.

Tarnowski, Andrew A., to Image Graphics, Inc: Vacuum system for a charged particle beam recording system, 4,651,171, 3-17-87, Cl. 346-110.00V.

Taroni, Federico: *See*—
Ribolla, G. Carlo; Taroni, Federico; Peiretti, Domenico; and Pepino, Antonio, 4,701,985, Cl. 26-10.00C.

Tarozzi, Richard A.; and Formhals, Charles, to King-Seeley Thermos Co: Portable cooler with side receptacle, 4,648,512, 3-10-87, Cl. 206-542.000.

Tarozzi, Richard A.; and Formhals, Charles, to King-Seeley Thermos Company: Cooler with pocketed lid, 4,667,484, 5-26-87, Cl. 62-371.000.

Tarozzi, Richard A., to King-Seeley Thermos Company: Automatic drip coffee maker, 4,667,583, 5-26-87, Cl. 99-279.000.

Tarozzi, Richard A., to King-Seeley Thermos Co: Automatic drip coffee maker, 4,694,738, 9-22-87, Cl. 99-279.000.

Tarpley, William B., Jr.; and Ruscitto, Gerald L., to Energy & Minerals Research Co: Vinyl polymer gelling agent for powder dissemination composition, 4,652,383, 3-24-87, Cl. 252-8.000.

Tarr, Paulo B., to United States of America, Navy: Method of measuring magnetic effects due to eddy currents, 4,648,041, 3-3-87, Cl. 364-481.000.

Tarr, Richard D.: *See*—
Katritzky, Alan R.; Heilmann, Steven M.; Krepski, Larry R.; Rasmussen, Jerald K.; and Tarr, Richard D., 4,659,801, Cl. 528-226.000.

Tarrant, Dale E., to Atlantic Richfield Company: Electric discharge processing of thin films, 4,661,370, 4-28-87, Cl. 427-37.000.

Tarrant, Dennis E.: *See*—
Hutter, Harold G.; and Tarrant, Dennis E., 4,662,693, Cl. 339-177.00R.
Hutter, Harold G.; and Tarrant, Dennis E., 4,702,538, Cl. 439-292.000.

Tarrant, Thomas G: Cable tag, 4,656,767, 4-14-87, Cl. 40-316.000.

Tarroux, Pierre, to Europhane: Starting control circuit for a high pressure lamp, 4,665,346, 5-12-87, Cl. 315-289.000.

Tarrson, Emanuel B.; Maric, Dane; and Kelly, Thomas P., to John O. Butler Company: Toothbrush, 4,691,404, 9-8-87, Cl. 15-167.00R.

Tarrson, Emanuel B.; and Maric, Dane, to John O. Butler Company: Interdental brush handle, 4,710,996, 12-8-87, Cl. 15-105.000.

Tarry, Christopher A.: *See*—
Dobbs, Robert J.; and Tarry, Christopher A., 4,667,867, Cl. 228-44.700.

Tars, Yaak A.: *See*—
Barahan, Viktor P.; Zabrovsky, Stanislav G.; Zvyagin, Albert F.; Lazarev, Grigory B.; and Tars, Yaak A., 4,685,045, Cl. 363-68.000.

Tartaglia, John M.: *See*—
Cameron, Thomas B.; Swanson, Wilbur W.; Tartaglia, John M.; and Cox, Thomas B., 4,713,111, Cl. 75-68.00R.

Tartaglia, Marc S.; Tartaglia, Marc S., Jr.; and Tartaglia, Michael J., Multicolor silk screen printing machine with moveable heating carriage, 4,671,174, 6-9-87, Cl. 101-115.000.

Tartaglia, Marc S., Jr.: *See*—
Tartaglia, Marc S.; Tartaglia, Marc S., Jr.; and Tartaglia, Michael J., 4,671,174, Cl. 101-115.000.

Tartaglia, Michael J.: *See*—
Tartaglia, Marc S.; Tartaglia, Marc S., Jr.; and Tartaglia, Michael J., 4,671,174, Cl. 101-115.000.

Tartaglino, Jerry J.: Selective zone isolation for HVAC system, 4,662,269, 5-5-87, Cl. 98-39.100.

Tartar, Andre: *See*—
Beachey, Edwin H.; Tartar, Andre; Gras-Masse, Helene; Jolivet, Michel; Audibert, Francoise; and Chedid, Louis, 4,695,562, Cl. 514-13.000.

Tarter, James H., to Allied Corporation: Disc brake, 4,705,146, 11-10-87, Cl. 188-73.100.

Tartier, Serge: *See*—
de Decker, Daniel; Parraud, Rene; and Tartier, Serge, 4,670,924, Cl. 174-140.00R.

Tartt, Evangeline; and Webber, Sandra: Convertible vest-bag, 4,637,076, 1-20-87, Cl. 2-102.000.

Tarui, Toshimi: *See*—
Takahashi, Toshihiko; Tarui, Toshimi; and Sato, Hiroshi, 4,702,75, Cl. 148-12.00F.

Taruki, Takashi: *See*—
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Tarumi, Niro: *See*—
Yokoyama, Yuichi; Masuhara, Eiichi; Kadoma, Yoshimi; Tarumi, Niro; and Tsuchiya, Makoto, 4,650,643, Cl. 526-245.00.

Tarumi, Noriyoshi: *See*—
Kimura, Kiyoshi; Okamoto, Yukio; Mova, Tadashi; Fukaya, Masakazu; Tarumi, Noriyoshi; and Ito, Kunio, 4,645,327, Cl. 355-3.00R.
Yano, Hidetoshi; Seimiya, Ryuhun; Tarumi, Noriyoshi; Denzu, Hiromi; and Obu, Makoto, 4,696,255, Cl. 118-653.000.

Tarumoto, Kouji; Myata, Jun; Yagi, Koji; and Naoba, Satoshi, to Mazda Motor Corporation: Method of manufacturing wear resistant sliding member, 4,636,285, 1-13-87, Cl. 204-38.500.

Tarumoto, Kouji: *See*—
Shimizu, Tsutomu; Tarumoto, Kouji; and Naoba, Satoshi, 4,678,738, Cl. 430-320.000.

Tarver, Carl R.: *See*—
Gatti, John E.; and Tarver, Carl R., 4,713,714, Cl. 360-137.000.

Tarver, Stephen C: Air injector, 4,648,997, 3-10-87, Cl. 261-25.000.

Tarver, Stephen C: Air injector, 4,659,520, 4-21-87, Cl. 261-25.000.

Tarvin, Jeffrey A., to KMS Fusion, Inc: Optical humidity sensor, 4,641,524, 2-10-87, Cl. 73-335.000.

Tasaka, Isao: *See*—
Yukawa, Kazuhiko; Tasaka, Isao; and Yamamura, Yukio, 4,651,46, Cl. 36-132.000.

Tasaka, Motoo; and Hasebe, Kazuhiro, to Ricoh Company, Ltd: Multistrike ink ribbon, 4,652,486, 3-24-87, Cl. 428-321.300.

Tasaki, Tsukanobu; and Nagashima, Akira, to Kioritz Corporation: Intake silencer, 4,681,188, 7-21-87, Cl. 181-229.000.

Tasaki, Takashi: *See*—
Kubota, Teruo; and Tasaki, Takashi, 4,673,232, Cl. 439-441.000.

Tasbas, Hedy E.: *See*—
Coleman, Mary T.; and Tasbas, Hedy E., 4,690,671, Cl. 604-12.00.

Tasch, Franz: *See*—
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,678,168, Cl. 266-196.000.
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,697,274, Cl. 373-79.000.

Tascher, Edward R., to Kendall Company, The: Medical tubing and connector, 4,653,542, 3-31-87, Cl. 138-109.000.

Taschner, Klaus: *See*—
Hopfensperger, Reinhold; and Taschner, Klaus, 4,712,976, Cl. 415-54.000.

Taschner, Walter: *See*—
Fastner, Thorwald; Mayrhofer, Max; and Taschner, Walter, 4,684,053, Cl. 228-158.000.

Tascon Medical Technology Corporation: *See*—
Alonso, Manuel T., 4,680,031, Cl. 623-2.000.

Tasdemiroglu, Server, to United States of America, Army: Ballistic spall liner, 4,664,967, 5-12-87, Cl. 428-220.000.

Tasdighi, Ali: *See*—
Bowers, Derek F.; and Tasdighi, Ali, 4,677,369, Cl. 323-314.00.

ash, George: Drain pipe plug device. 4,660,603, 4-28-87, Cl. 138-92.000.
ash, George: Conduit flushing device. 4,672,988, 6-16-87, Cl. 134-167.00C.
ashima, Seiji: *See*—
Okimoto, Haruo; and Tashima, Seiji, 4,706,621, Cl. 123-216.000.
ashiro, Donald K.: *See*—
Pollard, Lorne R.; and Tashiro, Donald K., 4,669,945, Cl. 414-505.000.
ashiro, Ikuo: *See*—
Iwamoto, Katsuharu; Kawakami, Osamu; Miyagawa, Hideo; Tashiro, Ikuo; and Ishimura, Takiji, 4,687,927, Cl. 250-231.00P.
ashiro, Kiyoshi: *See*—
Mida, Takashi; Takei, Akira; and Tashiro, Kiyoshi, 4,716,466, Cl. 358-213.260.
ashiro, Korefumi; Saito, Kunio; Sato, Hiroshi; and Hori, Takamasa, to Hitachi, Ltd. Time division multiplex data transmission system. 4,651,317, 3-17-87, Cl. 370-86.000.
ashiro, Mamoru: *See*—
Yamazaki, Shunpei; Tashiro, Mamoru; and Miyazaki, Minoru, 4,636,401, Cl. 427-39.000.
ashiro, Masaharu: *See*—
Miyauchi, Terukatsu; Ikeda, Yoneichi; Tashiro, Masaharu; and Kubota, Osamu, 4,668,378, Cl. 208-127.000.
ashiro, Shozo: *See*—
Yamamoto, Michinori; and Tashiro, Shozo, 4,663,986, Cl. 74-665.00N.
ashiro, Syuzaburo; Ina, Toshikazu; Taguchi, Masahiro; Onimaru, Sadahisa; Nakano, Osamu; and Kuno, Akira, to Nippon Seiken, Inc.; and Nippondenso Co., Ltd. Automatic adjuster for automobile driver equipment. 4,707,588, 11-17-87, Cl. 364-424.000.
ashiro, Tsutomu: *See*—
Haruna, Koichi; Nakao, Kazuo; Nishiyama, Tamotsu; Tashiro, Tsutomu; Matsumoto, Kuniaki; and Sada, Nobuyuki, 4,644,480, Cl. 364-552.000.
ashiro, Yasuhisa: *See*—
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ashiro, Yasunori: *See*—
Hayashi, Torahiko; and Tashiro, Yasunori, 4,669,967, Cl. 425-376.00R.
Hayashi, Torahiko; and Tashiro, Yasunori, 4,693,109, Cl. 425-308.000.
ashiro, Yoshizo, to Alps Electric Co., Ltd. Antiflocculating agent for spacers in liquid crystal displays. 4,678,284, 7-7-87, Cl. 350-344.000.
ashiro, Yutaka; and Sano, Shoichi, to Honda Giken Kogyo Kabushiki Kaisha. Steering assembly for motor vehicle. 4,709,936, 12-1-87, Cl. 280-91.000.
ashita, Junichi: *See*—
Uchida, Teruyoshi; Yamamori, Hisayoshi; Kojima, Hirotaka; and Tashita, Junichi, 4,672,970, Cl. 128-635.000.
ashjian, Robert J.; and Moreland, Charles E., to New England Institute of Comparative Medicine. Transportable X-ray apparatus. 4,694,481, 9-15-87, Cl. 378-198.000.
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ask Force Tips Incorporated: *See*—
Steingass, Robert W., 4,653,693, Cl. 239-460.000.
ask, Harry L.; and Genco, Louis V., to United States of America, Air Force. Method of measurement of haze in transparencies. 4,687,338, 8-18-87, Cl. 356-446.000.
ask, Harry L.; and Wyatt, Ivan S., to United States of America, Air Force. Portable glide slope indicator. 4,707,696, 11-17-87, Cl. 340-954.000.
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Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.
sen, Curtis S.; and Smith, Gaylord D., to Inco Alloys International, Inc. Alloy for composite tubing in fluidized-bed coal combustor. 4,685,427, 8-11-87, Cl. 122-511.000.
Tasset, Carl J., to Syntex (U.S.A.) Inc. Stabilized choline base solutions. 4,686,002, 8-11-87, Cl. 156-659.100.
Tassi, Lamberto: *See*—
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Ballestrazzi, Aris; and Tassi, Lamberto, 4,709,530, Cl. 53-209.000.
Ballestrazzi, Aris; and Tassi, Lamberto, 4,709,537, Cl. 53-550.000.
Tassie, Douglas P., to General Electric Company. Seal assembly. 4,635,529, 1-13-87, Cl. 89-36.140.
Tassle, C. R. V.; and Freeburg, Thomas A., to Motorola, Inc. Method and apparatus for shedding load in a communications controller of a data communications system. 4,714,923, 12-22-87, Cl. 340-825.080.
Tasson, Brian B.: *See*—
Meyer, David A.; Tasson, Brian B.; Vollmer, Robert F.; and Warren, J. Bruce, 4,691,638, Cl. 102-434.000.
Tassone, Joseph V.; and Candor, James T., to Dayco Products, Inc. Apparatus for electrostatically orienting reinforcing particles in a layer of reinforced polymeric material. 4,671,758, 6-9-87, Cl. 425-174.80E.
Tassone, Joseph V.; and Candor, James T., to Dayco Products, Inc. Layer of reinforced polymeric material, method and apparatus for making the same and a product containing the same. 4,695,269, 9-22-87, Cl. 474-268.000.
Tassy, Tomas. Reinflatable life preserver device. 4,657,516, 4-14-87, Cl. 441-125.000.
Tata, Robert P., to General Motors Corporation. Magnetic drive vehicle coolant pump. 4,645,432, 2-24-87, Cl. 417-420.000.
Tatabanyai Szenbanyak: *See*—
Matyas, Bela; Gerber, Pal; Solymos, Andras; Kaszanitzky, Ferenc; Panto, Gyorgy; and Leffler, Janos, 4,649,031, Cl. 423-20.000.
Tatami, Mitsuhige, to Sony Corporation. Method and system for processing digital video signal incorporating phase-correction feature. 4,635,097, 1-6-87, Cl. 358-13.000.
Tatami, Mitsuhige, to Sony Corporation. Phase locked loop with frequency offset. 4,679,005, 7-7-87, Cl. 331-16.000.
Tatami, Mitsuhige, to Sony Corporation. Apparatus for correcting a time base error and for compensating dropouts included in a reproduced video signal. 4,680,658, 7-14-87, Cl. 360-36.200.
Tatani, Atsushi: *See*—
Onizuka, Masakazu; Tatani, Atsushi; Hamada, Takayoshi; and Omoto, Setsuo, 4,683,210, Cl. 436-50.000.
Onizuka, Masakazu; Tatani, Atsushi; and Hamada, Takayoshi, 4,683,211, Cl. 436-50.000.
Shinoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Omoto, Setsuo; and Okino, Susumu, 4,675,167, Cl. 423-242.000.
Shinoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Okino, Susumu; and Shimizu, Taku, 4,696,804, Cl. 423-242.000.
Shinoda, Naoharu; Tatani, Atsushi; Onizuka, Masakazu; Okino, Susumu; and Shimizu, Taku, 4,696,805, Cl. 423-242.000.
Tatano, Toshio: *See*—
Aoyama, Norihito; Miike, Akira; Okano, Mikio; and Tatano, Toshio, 4,683,208, Cl. 436-12.000.
Tatar, Fred W.: *See*—
Dundas, Robert E.; and Tatar, Fred W., 4,692,701, Cl. 324-246.000.
Tatara, Yuudai; Okawa, Susumu; Matsui, Hideaki; and Nakawaki, Yasunori, to Toyota Jidosha Kabushiki Kaisha. Continuously variable transmission. 4,660,438, 4-28-87, Cl. 74-689.000.
Tatarski, Joseph E.: *See*—
Becraft, Arthur D.; Citron, Howard M.; and Tatarski, Joseph E., 4,684,198, Cl. 439-571.000.
Tataseo, Victor. Ladder stand-off device with safety harness. 4,643,274, 2-17-87, Cl. 182-106.000.
Tate, Benjamin E. Cardboard box and/or plastic crate partition. 4,635,810, 1-13-87, Cl. 220-21.000.
Tate, Clarence R., to Thalatta, Inc. Color changeable fabric. 4,659,619, 4-21-87, Cl. 428-321.500.
Tate, John C.; and Weeren, Eric K., to General Electric Company. Apparatus for demodulating differential phase shift keyed signals. 4,634,990, 1-6-87, Cl. 329-126.000.
Tate, Kazuhito; Yoshida, Hajime; and Yanagida, Kazuhiro, to Mitsubishi Oil Co., Ltd. Pitch for production of carbon fibers. 4,670,129, 6-2-87, Cl. 208-22.000.
Tate & Lyle Public Limited Company: *See*—
Bateman, John R.; Goodacre, Brita C.; and Smithson, Alan, 4,710,231, Cl. 127-30.000.
Bucke, Christopher; and Cheetham, Peter S. J., 4,670,387, Cl. 435-97.000.
Shukla, Dipak P.; Sinclair, Keith; and Smith, Kevin A., 4,640,717, Cl. 127-58.000.
Tate, Marilyn: *See*—
Fifield, Charles C.; Mayes, Richard T.; Tate, Marilyn; and Varnell, Daniel F., 4,686,171, Cl. 430-273.000.
Tate, Philip E. R., to Manchem Limited. Adhesion of rubber to metals. 4,684,421, 8-4-87, Cl. 156-124.000.
Tate, Ralph, Jr.; and Woods, John T., to Whirlpool Corporation. Refrigeration apparatus cabinet construction utilizing prepainted steel panels. 4,640,432, 2-3-87, Cl. 220-75.000.
Tate, Ralph, Jr.; and Kraemer, Robert H. O., to Whirlpool Corporation. Thermostat mounting. 4,649,712, 3-17-87, Cl. 62-137.000.
Tate, Ralph, Jr.; and Paddock, Stephen W., to Whirlpool Corporation. Ice maker assembly and method of assembly. 4,649,717, 3-17-87, Cl. 62-340.000.
Tate, Ralph, Jr.; and Paddock, Stephen W., to Whirlpool Corporation. Ice maker assembly and method of assembly. 4,665,708, 5-19-87, Cl. 62-66.000.
Tate, Ralph, Jr.; and Woods, John T., to Whirlpool Corporation. Method of manufacturing refrigeration apparatus cabinet construc-

tion utilizing prepainted steel panels. 4,694,553, 9-22-87, Cl. 29-445.000.
Tate, Ralph, Jr.: *See*—
Linstromberg, William J.; Tate, Ralph, Jr.; and Kraemer, Robert H. O., 4,649,718, Cl. 62-340.000.
Tate, Roland D. Battery terminal and connector. 4,636,447, 1-13-87, Cl. 429-121.000.
Tate, Steven H.: *See*—
Disher, Brennan C.; and Tate, Steven H., 4,681,173, Cl. 175-7.000.
Tate, William J. Automatic mirror rotating system. 4,679,158, 7-7-87, Cl. 364-559.000.
Tateho Kagaku Kogyo Kabushiki Kaisha: *See*—
Kawabe, Tadashi; and Kobune, Masafumi, 4,681,862, Cl. 501-108.000.
Tateishi, Hideki; Shimizu, Tamotsu; Aiuchi, Susumu; Iwashita, Katsuhiro; and Nakamura, Hiroshi, to Hitachi, Ltd. Continuous sputtering apparatus. 4,675,096, 6-23-87, Cl. 204-298.000.
Tateishi, Hiromitsu, to Mitsui Ocean Development & Engineering Co., Ltd. Method for handling wellhead assembly. 4,658,903, 4-21-87, Cl. 166-335.000.
Tateishi, Hiroshi: *See*—
Onishi, Toshitada; Tateishi, Hiroshi; Koyama, Kenichi; Saito, Shigeo; and Nagata, Masayuki, 4,659,007, Cl. 228-156.000.
Tateishi, Masaru: *See*—
Murata, Seinchiro; Tateishi, Masaru; Yoshioka, Toshio; Kamei, Sakito; Nakazono, Hiroshi; and Yamawaki, Yoshiro, 4,660,491, Cl. 114-65.00R.
Murata, Seinchiro; Tateishi, Masaru; Hayakawa, Kohji; Sakamoto, Takeshi; and Mukasa, Kohsuke, 4,674,433, Cl. 114-355.000.
Tateisi, Kazuma; and Shinohara, Yoshitsugu, to Omron Tateisi Electronics Co. System for making payments for transactions. 4,678,895, 7-7-87, Cl. 235-379.000.
Tateisi, Kazuma: *See*—
Ohmae, Kenichi; Tateisi, Kazuma; Shinohara, Yoshitsugu; and Ueno, Nobuyuki, 4,673,802, Cl. 235-379.000.
Tatekawa, Masaichiro: *See*—
Urata, Yoshihito; Tatekawa, Masaichiro; and Sasaki, Toshiharu, 4,696,562, Cl. 355-3.00R.
Tatekawa, Masaichirou: *See*—
Kanno, Masashi; Komori, Katsufumi; Tatekawa, Masaichirou; Miwa, Kiyohito; and Takaoka, Iwane, 4,707,109, Cl. 355-7.000.
Tatematsu, Hiromu; and Miyabayashi, Takeshi, to Brother Kogyo Kabushiki Kaisha. Substrate processed for electroless plating for printed wiring pattern and process for manufacturing the processed substrate. 4,696,861, 9-29-87, Cl. 428-328.000.
Tatematsu, Kazuhisa; Kondo, Tokuji; Sasaki, Shiro; and Kawamatsu, Koji, to Arakawa Shatai Kogyo Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Walk-in mechanism associated with seat track structure. 4,666,208, 5-19-87, Cl. 297-341.000.
Tatematsu, Susumu: *See*—
Hida, Junichi; Tsukiyama, Yasumitsu; Kito, Yoshikazu; and Tatematsu, Susumu, 4,644,757, Cl. 62-188.000.
Tsukiyama, Yasumitsu; Kito, Yoshikazu; and Tatematsu, Susumu, 4,662,182, Cl. 62-137.000.
Tatematsu, Takeo: *See*—
Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fujii, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased, 4,707,806, Cl. 365-96.000.
Tatematsu, Yoshiaki; and Tanaka, Atsuo, to Toyota Jidosha Kabushiki Kaisha. Piston for internal combustion engine. 4,694,735, 9-22-87, Cl. 92-208.000.
Tatematsu, Yoshiaki: *See*—
Donomoto, Tadashi; Tatematsu, Yoshiaki; Tanaka, Atsuo; and Kubo, Masahiro, 4,708,847, Cl. 420-129.000.
Tatemoto, Minoru: *See*—
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Kumagai, Naotake; and Tatemoto, Minoru, 4,673,193, Cl. 280-707.000.
Kobayashi, Kazuyoshi; Takizawa, Shozo; Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,695,074, Cl. 280-707.000.
Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, 4,685,689, Cl. 280-707.000.
Takizawa, Shozo; Tatemoto, Minoru; Furumura, Akio; Sugawara, Tadashi; Kariya, Shigeo; and Hiroshima, Kazuo, 4,696,483, Cl. 280-6.000.
Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,639,014, Cl. 280-707.000.
Tanaka, Tadao; Chikamori, Sunao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; Kumagai, Naotake; Abe, Hiroki; and Takizawa, Shozo, 4,640,526, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,669,749, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Takizawa, Shozo; Kumagai, Naotake; and Tatemoto, Minoru, 4,669,750, Cl. 280-707.000.
Tanaka, Tadao; Harara, Mitsuhiko; Taniguchi, Yasutaka; Suzumura, Masanaga; Tatemoto, Minoru; and Kumagai, Naotake, 4,697,237, Cl. 364-424.000.
Wada, Shunichi; Shimomura, Setsuhiro; Kumagai, Naotake; Takizawa, Shozo; Maruyama, Mitsunori; Tatemoto, Minoru; Takada, Hiroyuki; and Harara, Mitsuhiko, 4,648,622, Cl. 280-707.000.
Tateno, Haruo: *See*—
Itoh, Tsutomu; Tateno, Haruo; Nagasaka, Hideo; Yamamoto, Masahiro; Mitsuyoshi, Yusuke; Matsuno, Susumu; Satoh, Hiroshi; and Kitoh, Masayuki, 4,670,290, Cl. 427-34.000.
Tateno, Kenichi: *See*—
Fujii, Hiroyuki; Tateno, Kenichi; and Nishikawa, Mikio, 4,637,131, Cl. 29-588.000.
Tateno, Shigeru: *See*—
Ueno, Susumu; Kuroda, Kouiti; Nomura, Hirokazu; and Tateno, Shigeru, 4,637,851, Cl. 156-272.600.
Tateoka, Masamichi, to Canon Kabushiki Kaisha. Light source device for close spacing of two light beams. 4,634,232, 1-6-87, Cl. 350-394.000.
Tateoka, Masamichi, to Canon Kabushiki Kaisha. Optical information processing apparatus. 4,635,243, 1-6-87, Cl. 369-44.000.
Tateoka, Masamichi, to Canon Kabushiki Kaisha. Reading apparatus. 4,661,858, 4-28-87, Cl. 358-284.000.
Tateoka, Masamichi; and Ando, Toshinori, to Canon Kabushiki Kaisha. Scanning optical system. 4,674,825, 6-23-87, Cl. 350-6.800.
Tateoka, Masamichi; and Yano, Hideaki, to Canon Kabushiki Kaisha. Optical information processing apparatus for light beam focus detection and control. 4,682,316, 7-21-87, Cl. 369-46.000.
Tateoka, Yasuo; Uemura, Ryuzo; and Sagawa, Takatoshi, to Nissan Motor Co., Ltd. Plastic parts with surface-hardening coating containing ultraviolet absorber. 4,708,908, 11-24-87, Cl. 428-423.100.
Tateosian, Louis; and Roemer, Frederick D., to Dentsply Research & Development Corp. Stable one part dental compositions employing ipn technology. 4,698,373, 10-6-87, Cl. 522-93.000.
Tateosian, Louis H.; and Wilson, W. Donald, to Dentsply International Inc. Interpenetrating polymer network compositions employing rubber-modified polymers. 4,711,913, 12-8-87, Cl. 522-14.000.
Tateosian, Louis H.: *See*—
Milnes, Ian M.; and Tateosian, Louis H., 4,650,550, Cl. 204-18.70.
Tateyama, Norihiro; Yamazaki, Kazuo; Kato, Hiroshi; and Teshima, Haruhito, to Sony Corporation. Cathode ray tube having a fluorescent layer with varying amounts of silica. 4,707,635, 11-17-87, Cl. 313-466.000.
Tateyama, Tomoyoshi, to Ikeda Bussan Co., Ltd.; and Ikeda Kanbukingyo Co., Ltd. Angular position adjustable headrest. 4,674,797, 6-23-87, Cl. 297-408.000.
Tatezaki, Junichi: *See*—
Funabashi, Tsuneo; Iwasaki, Kazuhiko; Yamaguchi, Nobuo; Shimura, Takanori; and Tatezaki, Junichi, 4,674,017, Cl. 364-200.000.
Iwasaki, Kazuhiko; Tatezaki, Junichi; and Funabashi, Tsuneo, 4,677,623, Cl. 371-40.000.
Tator, Kenneth B.; and Lackey, Richard O., to KTA-Tator, Inc. Environmental exposure tester. 4,698,507, 10-6-87, Cl. 250-429.000.
Tatro, Bernard J.: *See*—
Agdanowski, Ronald T.; Geil, James A.; and Tatro, Bernard J., 4,648,198, Cl. 128-207.180.
Tatro, Henry J., to Colt Industries Inc. Safety device preventing conversion to full automatic firing. 4,658,702, 4-21-87, Cl. 89-139.000.
Tatro, Henry J., to Colt Industries Inc. Rifle handguard assembly having outer shell with outer and inner liners. 4,663,875, 5-12-87, Cl. 42-71.010.
Tatsu, Kunihiko: *See*—
Komatsu, Teruaki; Kobayashi, Kiyoshi; Tatsu, Kunihiko; and Shibata, Shoichi, 4,695,065, Cl. 279-60.000.
Tatsuda, Kazunori: *See*—
Kobayashi, Masaaki; Okubo, Yoshiyuki; and Tatsuda, Kazunori, 4,692,663, Cl. 313-495.000.
Tatsuguchi, Masamitsu, to Mitsui Ocean Development & Engineering Co., Ltd. Locking device for locking off-shore work platform to jig chord used for lifting work platform. 4,662,787, 5-5-87, Cl. 405-198.000.
Tatsuguchi, Satoru: *See*—
Ushio, Tetsuji; Tatsuguchi, Satoru; Tani, Hoshiro; and Tsuzaki, Takashi, 4,688,320, Cl. 29-527.400.
Tatsuhama, Tetsuro: *See*—
Maeda, Akiya; Sakai, Mituya; Masaka, Yukinobu; Nomura, Masahiro; Yamada, Yasuo; and Tatsuhama, Tetsuro, 4,711,501, Cl. 299-21.000.
Tatsuhide, Nakane: *See*—
Shoutaro, Kato; Tatsuhide, Nakane; and Tetsuo, Ogawa, 4,700,223, Cl. 358-93.000.
Tatsukawa, Suminori: *See*—
Nakabayashi, Masamitsu; Kawai, Hideo; Tatsukawa, Suminori; and Kaji, Masayuki, 4,686,133, Cl. 428-209.000.
Tatsumi, Akira: *See*—
Okabe, Nobuya; Hirata, Toichi; Yoshida, Kunaki; Sugiyama, Genroku; Haga, Masakazu; Tanaka, Hideaki; and Tatsumi, Akira, 4,697,418, Cl. 60-434.000.
Seki, Gen; Hayashi, Seiichi; Kaito, Haruyuki; and Tatsumi, Akira, 4,658,315, Cl. 360-104.000.
Tatsumi, Eiji, to Pegasus Sewing Machine Mfg. Co., Ltd. Thread chain sewing apparatus for use in overedge sewing machine. 4,644,884, 2-24-87, Cl. 112-130.000.
Tatsumi, Hiroshi, to Kubota, Ltd. Detecting apparatus utilizing light beams. 4,638,157, 1-20-87, Cl. 250-236.000.
Tatsumi, Hisao; Kayata, Haruhiko; Yamamori, Kenji; Kakizawa, Toshio; and Mogi, Toshiaki, to Kabushiki Kaisha Toshiba. Thermal transfer printer. 4,712,115, 12-8-87, Cl. 346-76.0PH.

atsumi, Masami; Sawada, Shin-ichi; and Nakai, Ryusuke, to Sumitomo Electric Industries, Ltd. Method of monitoring single crystal during growth. 4,634,490, 1-6-87, Cl. 156-601.000.

atsumi, Masami: *See*—
Tada, Koji; Tatsumi, Masami; Kotani, Toshihiro; and Sawada, Shinichi. 4,678,534, Cl. 156-607.000.

atsumi, Shuhei: *See*—
Nakaoji, Kazuhiko; Kamao, Mitsugu; Itoh, Hayami; Tatsumi, Shuhei; and Takao, Shoichi. 4,706,891, Cl. 241-16.000.
Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shimano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru. 4,712,742, Cl. 241-20.000.

atsumi, Susumu: *See*—
Miyakawa, Seiichi; Tatsumi, Susumu; and Sakamoto, Koji. 4,640,129, Cl. 73-866.000.

atsumi, Takumi, to Mitsubishi Denki Kabushiki Kaisha. Safety control device for automatic transmission. 4,635,508, 1-13-87, Cl. 74-866.000.

atsuno, Kimio; Kataoka, Keiji; and Yonezawa, Seiji, to Hitachi, Ltd. Hologram lens. 4,683,880, 8-25-87, Cl. 350-3.720.

atsuno, Kimio; and Kataoka, Keiji, to Hitachi, Ltd. Optical focussing and tracking system using a polarization prism for dividing the reflected beam. 4,689,479, 8-25-87, Cl. 250-201.000.

atsuno, Kimio: *See*—
Arimoto, Akira; Saito, Susumu; Tatsuno, Kimio; and Kataoka, Keiji. 4,644,160, Cl. 250-201.000.

atsuoka, Masahiko: *See*—
Nakamura, Toru; Konishi, Satoshi; Yamada, Seiji; Tatsuoka, Masahiko; and Kubo, Michihiro. 4,708,215, Cl. 177-25.000.

atsuoka, Tosuo; Suzuki, Kenji; Iwao, Kayoko; Satoh, Fumio; Miyano, Seiji; and Sumoto, Kunihiro, to Suntori Limited. Oxabicycloheptane derivatives. 4,713,453, 12-15-87, Cl. 544-60.000.

atsuta, Kumiaki: *See*—
Otake, Noboru; Tatsuta, Kumiaki; Mizobuchi, Shigeyuki; Komeshima, Nobuyasu; Nakajima, Shohachi; Kawai, Hiroyuki; and Odagawa, Atsuo. 4,710,564, Cl. 536-6.400.

atsuta, Mitsugu: *See*—
Yokoyama, Fumitomo; Kuwayama, Yoshinari; Tatsuta, Mitsugu; and Kuramochi, Koujiro. 4,683,903, Cl. 137-56.000.

atsuzawa, Hisao, to Yamaya Sangyo Co., Ltd. Pressure reducing instrument for pressure gauges. 4,715,230, 12-29-87, Cl. 73-706.000.

att, Christopher F.; Richards, Kenneth; and Chamberlain, Michael R., to Wiggins Teape Group Limited, The. Process and apparatus for coating paper. 4,657,783, 4-14-87, Cl. 427-211.000.

attanelli, Robert; and Thomas, Steven R., to GK Technologies, Incorporated. Flat multiple pair cable stripping and connector attaching apparatus. 4,667,381, 5-26-87, Cl. 29-33.000M.

attermusch, Peter; and Zech, Ulrich, to Daimler-Benz Aktiengesellschaft. Stabilizer arrangement for drivable motor vehicle axles with independent wheel suspensions. 4,703,947, 11-3-87, Cl. 280-689.000.

attersall, Alan M. Speaker enclosure. 4,635,749, 1-13-87, Cl. 181-152.000.

attersall, William A.: *See*—
Barrett, Michael; Tattersall, William A.; and O'Donnell, Dennis. 4,660,366, Cl. 57-263.000.

atukawa, Junji; and Kurihara, Shozo, to Nippondenso Co., Ltd. Rotor structure of magneto generator. 4,701,654, 10-20-87, Cl. 310-153.000.

atum, John A. Educational aid for spelling. 4,643,679, 2-17-87, Cl. 434-167.000.

atum, O. Hilt. Dental implant. 4,636,216, 1-13-87, Cl. 623-16.000.

au Systems Corporation: *See*—
Waite, David P.; and Riddell, Horace G., 4,685,170, Cl. 364-200.000.

aub, Alan I.; Huang, Shyh-Chin; and Chang, Keh-Minn, to General Electric Company. Rapidly solidified nickel aluminide of improved stoichiometry and ductilization and method. 4,642,139, 2-10-87, Cl. 148-3.000.

aub, Alan I.; Frischmann, Peter G.; and Douglas, Thomas E., to General Electric Company. Heat assisted parting of amorphous alloys. 4,670,636, 6-2-87, Cl. 219-121.0EH.

aub, Alan I.; and Frischmann, Peter G., to General Electric Company. Isothermal hold method of hot working of amorphous alloys. 4,715,906, 12-29-87, Cl. 148-120.000.

aub, Alan I.: *See*—
Chang, Keh-Minn; Huang, Shyh-Chin; and Taub, Alan I., 4,650,519, Cl. 75-246.000.
Chang, Keh-Minn; Taub, Alan I.; and Huang, Shyh-Chin, 4,661,156, Cl. 75-246.000.
Chang, Keh-Minn; Taub, Alan I.; and Huang, Shyh-Chin, 4,676,829, Cl. 75-246.000.
Huang, Shyh-Chin; Chang, Keh-Minn; and Taub, Alan I., 4,668,311, Cl. 148-429.000.
Huang, Shyh-Chin; Chang, Keh-Minn; and Taub, Alan I., 4,710,247, Cl. 148-429.000.

aub, Daniel M., to International Business Machines Corporation. Synchronization mechanism for a multiprocessing system. 4,663,708, 5-5-87, Cl. 364-200.000.

aub, David: *See*—
Parsons, William H.; and Taub, David, 4,634,716, Cl. 514-423.000.

aub, Ronald H. Standard dimension pallet assembly formed of separate abutted segments. 4,694,962, 9-22-87, Cl. 206-600.000.

aub, Ronald H. Variable width, tiered display stand. 4,703,703, 11-3-87, Cl. 108-111.000.

aube, Bill: *See*—
Grundstedt, Peter; and Taube, Bill, 4,678,018, Cl. 160-135.000.

Taube, Thomas: *See*—
Conradty, Claudio; Zollner, Dieter; Lauterbach-Dammler, Inge; and Taube, Thomas, 4,639,928, Cl. 373-93.000.
Schieber, Franz; Zollner, Dieter; Lauterbach, Inge; Koziol, Konrad; Zoliner, Christine; and Taube, Thomas, 4,698,825, Cl. 373-93.000.
Wilhelmi, Herbert; Kegel, Kurt; Zollner, Dieter; Lauterbach-Dammler, Inge; Taube, Thomas; and Rittman, Friedrich, 4,710,607, Cl. 219-121.00P.

Tauber, Guenter: *See*—
Huebner, Horst; Tauber, Guenter; Hofbauer, Peter; Glatzer, Roland; Beintze, Guenther; Wagner, Dieter; and Riege, Guenter, 4,685,328, Cl. 73-55.000.

Tauber, Joseph P.: *See*—
Steinbach, Robert L.; and Tauber, Joseph P., 4,671,711, Cl. 409-82.000.

Tauber, Klaus: *See*—
Dommer, Erich; Rechtziegel, Bruno; and Tauber, Klaus, 4,701,302, Cl. 420-470.000.

Tauber, Thomas E.; and Horan, James L., to Aerosquip Corporation. Gas and fluid separator. 4,707,165, 11-17-87, Cl. 55-204.000.

Taubmans Industries Limited: *See*—
Coles, Peter R.; and Costello, Stephen G., 4,665,394, Cl. 340-815.100.

Taubner, Fred R.; and Roy, Joseph A., to GTE Products Corporation. Arc discharge lamp having improved lumen maintenance. 4,639,637, 1-27-87, Cl. 313-489.000.

Tauc, Jan; Maris, Humphrey J.; and Thomsen, Christian, to Brown University Research Foundation. Optical generator and detector of stress pulses. 4,710,030, 12-1-87, Cl. 356-432.000.

Tauchert, Klaus: *See*—
Hauger, Josef; and Tauchert, Klaus, 4,676,680, Cl. 400-211.000.

Tauer, Dennis L.: *See*—
Davis, Loren G.; Schmitz, Steven R.; and Tauer, Dennis L., 4,712,210, Cl. 370-77.000.

Taufer, Peter: *See*—
Nitschke, Werner; and Taufer, Peter, 4,658,202, Cl. 323-275.000.

Taumberger, Franz: *See*—
Falkenstein, Rudolf; Haberland, Detlef; Kaindl, Michael; Haltenorth, Helmut; Prussas, Herbert; and Taumberger, Franz, 4,707,066, Cl. 350-96.200.

Taunay, Claude, to Automobiles Peugeot, and Automobiles Citroen. Counterbalancing device for hatchback lid on a road vehicle. 4,679,841, 7-14-87, Cl. 296-76.000.

Taunier, Pierre: *See*—
Fruchart, Robert; Madar, Roland; Rouault, Alain; L'Heritier, Philippe; Taunier, Pierre; Boursier, Daniel; Fruchart, Daniel; and Chaudouet, Patrick, 4,663,066, Cl. 252-62.510.

Taunton-Rigby, Alison: *See*—
Alford, Bernadette L.; Mao, Jen-I; Moir, Donald T.; Taunton-Rigby, Alison; and Vovis, Gerald F., 4,666,847, Cl. 435-253.000.
Botstein, David; Davis, Ronald W.; Fink, Gerald R.; Taunton-Rigby, Alison; Knowlton, Robert G.; Mao, Jen-i; Moir, Donald T.; and Goff, Christopher G., 4,661,454, Cl. 435-256.000.

Tauranca Limited: *See*—
Brazier, John F.; Young, Alan H.; Viney, John E.; and Sutton, Gordon W., 4,708,638, Cl. 431-116.000.

Taurand, Gerard: *See*—
Cotrel, Claude; Guyon, Claude; Roussel, Gerard; and Taurand, Gerard, 4,642,308, Cl. 514-253.000.

Taurin, Michel; Pernot, Jean-Michel; and Marie, Gerard J. M., to La Radiotechnique. Electronic system for the secret transmission of audio signals. 4,659,875, 4-21-87, Cl. 380-19.000.

Taurus Controls Limited: *See*—
Taylor, James C., 4,696,194, Cl. 73-861.660.

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Czvikovszky, Tibor; Kovacs, Gabor; Lakner, Endre; Mahr, Lajos; Somogyi, Agnes; Mikes, Sandor; Kegly, Gyorgy; Muzsai, Istvan; Palotas, Laszlo; and Pfisztner, Nandor, 4,706,711, Cl. 138-103.000.

Taurus Precision, Inc.: *See*—
Jakubus, Gary, 4,655,060, Cl. 70-230.000.

Tauschek, Georg: *See*—
Schmid, Anton; Tauschek, Georg; Sedlmeier, Andreas; and Pollak, Peter, 4,700,446, Cl. 29-159.200.

Tauschel, Horst-Dietmar: *See*—
Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Klemschroth, Jurgen; Herrmann, Manfred; Fritsch, Edgar; Tauschel, Horst-Dietmar; Wagner, Bernd; and Wolf, Gunter, 4,698,341, Cl. 514-230.000.

Tauscher, Robert C.: *See*—
Woyski, William B.; Huntley, Bruce L.; and Tauscher, Robert C., 4,635,764, Cl. 188-268.000.

Tauscher, Willy; and Schneider, Gottlieb, to Sulzer Brothers Limited. Static mixing device for viscous melts. 4,692,030, 9-8-87, Cl. 366-337.000.

Tauschmann, Otto. Conduit. 4,694,865, 9-22-87, Cl. 138-148.000.

Tausevich, Edward R. Concealed inventory control device. 4,641,447, 2-10-87, Cl. 40-530.000.

Tauster, Samuel J.; Montagna, Angelo A.; Steger, John J.; Fung, Shun C.; and Cross, Virginia R., to Exxon Research and Engineering Co. Zeolite catalyst and process for using said catalyst (C-1591). 4,634,517, 1-6-87, Cl. 208-138.000.

Tauzia, Jean-Michel: *See*—
Lelu, Andre E.; Grignon, Jean R.; Gonthier, Bruno F.; and Tauzia, Jean-Michel, 4,638,735, Cl. 102-290.000.

Tauzin, Francis, to Sigma Plastique, and Pomagalski S.A. Cabin for an aerial cableway. 4,635,561, 1-13-87, Cl. 105-329.100.

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Tavana, Danesh; and Wong, Sing Y., to Monolithic Memories, Inc. Buffered Miller current compensating circuit. 4,698,525, 10-6-87, Cl. 307-456.000.

Tavano, John B. Emergency aircraft system. 4,651,952, 3-24-87, Cl. 244-2.000.

Tavasolian, Ali: *See*—
Reiner, Daniel T.; Bolt, Lawrence; Morlan, Philip W., Jr.; and Tavasolian, Ali, 4,659,112, Cl. 283-90.000.

Tavel, Goldie K.; and Schildmeier, J. Henry. Waste separator-receptacle for recycling of materials with environmental control dispenser and holder. 4,660,758, 4-28-87, Cl. 232-43.200.

Tavella, Mario: *See*—
Valbusa, Luigi; Coraluppi, Enzo; Quaglia, Andrea; and Tavella, Mario, 4,636,457, Cl. 430-267.000.

Tavener, John W., to Imperial Chemical Industries PLC. Ratchet mechanism. 4,633,733, 1-6-87, Cl. 74-533.000.

Taverdet, Jean C., to Societe Xeram. Encapsulated housing for dissipating heat produced by electrical circuits. 4,680,673, 7-14-87, Cl. 361-385.000.

Taves, Marvin J.: *See*—
Keyes, Paul H.; and Taves, Marvin J., 4,700,872, Cl. 222-162.000.

Tavis, John R. Variable-reluctance transducer. 4,690,004, 9-1-87, Cl. 73-862.640.

Tayss, Edward A.; Santalucia, John; and Carroll, David L., to Colgate-Palmolive Company. Ethylene propylene copolymer in a substrate and collapsible dispensing container made therefrom. 4,693,395, 9-15-87, Cl. 222-107.000.

Tayss, Edward A.; Temin, Samuel; Santalucia, John; and Carroll, Davis L., to Colgate-Palmolive Company. Laminate substrate and article therefrom incorporating fluorinated polyethylene. 4,693,396, 9-15-87, Cl. 222-107.000.

Tavtigian, Richard. Warning device for golf carts. 4,656,476, 4-7-87, Cl. 340-993.000.

Tawada, Yoshihisa; Nakayama, Takehisa; Tai, Masahiko; and Ikuchi, Nozomu, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha; and Shimadzu Corporation. Glow-discharge decomposition apparatus. 4,664,890, 5-12-87, Cl. 422-186.050.

Tawada, Yoshihisa; and Tsuge, Kazunori, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Film forming process. 4,701,344, 10-20-87, Cl. 427-39.000.

Tawada, Yoshihisa: *See*—
Hamakawa, Yoshihiro; Yamagishi, Hideo; and Tawada, Yoshihisa, 4,634,601, Cl. 427-39.000.
Takada, Jun; Yamaguchi, Minori; and Tawada, Yoshihisa, 4,665,278, Cl. 136-256.000.
Tsuge, Kazunori; Tawada, Yoshihisa; and Hamakawa, Yoshihiro, 4,670,762, Cl. 357-2.000.
Yamamoto, Kenji; Nakayama, Takehisa; and Tawada, Yoshihisa, 4,711,807, Cl. 428-334.000.

Tawara, Yoshio; and Ohashi, Ken, to Shin-Etsu Chemical Co., Ltd. Method for the preparation of an anisotropic sintered permanent magnet. 4,678,634, 7-7-87, Cl. 419-30.000.

Tawil, Riad A.; and Velbeck, Kenneth, to Harshaw/Filtrol Partnership. Radiation detection and acquisition system. 4,677,300, 6-30-87, Cl. 250-366.000.

Tawse, Alan I.: *See*—
Christian, Philip; and Tawse, Alan I., 4,641,689, Cl. 140-149.000.

Tawshunsky, Ted: *See*—
Goodman, William R.; Mayfield, Richard B.; Tawshunsky, Ted; and Zardiackas, Fredrick L., 4,646,300, Cl. 371-33.000.

Taxon, Morse N.; and Maguran, Gene A., to United Technologies Diesel Systems, Inc. Electromagnetic fuel injector. 4,655,396, 4-7-87, Cl. 239-533.900.

Taya, Akira; Narita, Kazuo; Hagiwara, Yasuhiko; and Hatakeyama, Keiji, to Kabushiki Kaisha Toshiba. Halophosphate phosphor and fluorescent lamp using the same. 4,663,563, 5-5-87, Cl. 313-487.000.

Taya, Keiichiro. Coaxial cable including an induction cable. 4,675,622, 6-23-87, Cl. 333-24.00R.

Taya, Shunroku; and Kozasa, Susumu, to Hitachi, Ltd. Ion implanter. 4,634,931, 1-6-87, Cl. 315-111.810.

Taya, Shunroku, to Hitachi, Ltd. Microwave discharge type ion source for ion injection devices. 4,703,180, 10-27-87, Cl. 250-425.000.

Taya, Takeyoshi: *See*—
Ito, Toshio; Fujio, Shunichi; and Taya, Takeyoshi, 4,705,092, Cl. 164-34.000.

Tayake, Masazumi: *See*—
Tokura, Koichi; and Tayake, Masazumi, 4,654,751, Cl. 361-328.000.

Tayco Developments, Inc.: *See*—
Taylor, Douglas P.; and Lee, David A., 4,638,895, Cl. 188-280.000.
Taylor, Paul H., 4,674,398, Cl. 91-459.000.

Tayeb, AbdulMohamed: *See*—
Shen, Nelson M.; Moisson, Marc F.; Arrington, John P.; and Tayeb, AbdulMohamed, 4,705,347, Cl. 350-96.150.

Tayebi, Amad, to New England Thermoplastics, Inc. Face mask. 4,641,645, 2-10-87, Cl. 128-206.190.

Tayebi, Amad, to Capsule Technology International, Ltd. Method for sealing tamper-evident capsules. 4,677,812, 7-7-87, Cl. 53-477.000.

Tayler, Gerald E.: *See*—
Hartung, Michael H.; and Tayler, Gerald E., 4,636,946, Cl. 364-200.000.

Taylor, Adoyal. Apparatus for destroying fire ants. 4,683,673, 8-4-87, Cl. 43-139.000.

Taylor, Alfred A.; and North, John P. Packaging apparatus. 4,663,917, 5-12-87, Cl. 53-552.000.

Taylor, Alfred W.: *See*—
Taylor, Thomas M.; and Taylor, Alfred W., 4,704,045, Cl. 404-90.000.

Taylor, Allan H., to United States of America, National Aeronautics and Space Administration. Lightweight piston. 4,683,809, 8-4-87, Cl. 92-208.000.

Taylor, Allan H.: *See*—
Jackson, L. Robert; Davis, Randall C.; and Taylor, Allan H., 4,650,385, Cl. 411-166.000.

Taylor, Alwyn H.: *See*—
McVeigh, James B., Jr.; Reise, Terrence F.; and Taylor, Alwyn H., 4,707,421, Cl. 429-94.000.

Taylor, Andrew W., to Pacific Proteins Limited. Process and apparatus for drying organic material in a rotary dryer. 4,668,185, 5-26-87, Cl. 432-105.000.

Taylor, Anne K.: *See*—
Fawzi, Mahdi B.; and Taylor, Anne K., 4,642,316, Cl. 514-398.000.

Taylor, Arthur D.; and Upson, Thomas M., to Engelhard Corporation. Method for producing silver colored brazing alloy. 4,640,752, 2-3-87, Cl. 204-141.500.

Taylor, Arthur R.; and Wulfekotter, Dudley, to Formica Corporation. Modified melamine resin for use in decorative laminates. 4,713,291, 12-15-87, Cl. 428-526.000.

Taylor, Attalee S.: *See*—
Andrews, Howard W., Jr.; Pickles, Charles S.; and Taylor, Attalee S., 4,715,820, Cl. 439-59.000.
Header, Stephen; Moore, Jerry L.; and Taylor, Attalee S., 4,687,267, Cl. 439-62.000.

Taylor, Barry E.: *See*—
Craig, William A.; and Taylor, Barry E., 4,636,332, Cl. 252-514.000.

Taylor, Benson T., Jr.; and Werkmeister, Robert L., to General Electric Company. Vacuum forming process for articles having high forming stresses. 4,704,237, 11-3-87, Cl. 264-40.100.

Taylor, Benson T., Jr., to General Electric Company. Method of reinforcing a structural assembly. 4,706,363, 11-17-87, Cl. 29-453.000.

Taylor, Bruce F.; and Hagen, Kenneth G., to Thermo Electron-Web Systems, Inc. Steam-shower apparatus and method of using same. 4,685,221, 8-11-87, Cl. 34-155.000.

Taylor, Bruce F.; and Hagen, Kenneth G., to Thermo Electron-Web Systems, Inc. Evaporative-cooling apparatus and method for the control of web or web-production machine component surface temperatures. 4,689,895, 9-1-87, Cl. 321-20.000.

Taylor, Bruce F.; and Hagen, Kenneth G., to Thermo Electron-Web Systems, Inc. Evaporative-cooling apparatus and method for the control of web or web-production machine component surface temperatures. 4,702,015, 10-27-87, Cl. 34-20.000.

Taylor, Carl R.: *See*—
Gartside, Charles H., III; Levy, Alvin C.; Overton, Bob J.; and Taylor, Carl R., 4,701,016, Cl. 350-96.230.

Taylor Chandler R., Jr., to A. H. Robins Company, Incorporated. 2-[(6-amino-pyridinyl)amine]phenyl]aryl methanones, their thiomethyl, ketal or thioketal analogs. 4,668,675, 5-26-87, Cl. 514-230.000.

Taylor, Chandler R., Jr., to A. H. Robins Company, Incorporated. Method of treating depression with 5-(aminoalkyl)-11-phenyl-5H-dibenzo(b,e)(1,4) diazepines. 4,694,003, 9-15-87, Cl. 514-220.000.

Taylor, Chandler R., Jr.; and Lo, Young S., to A. H. Robins Company, Inc. Nitro, amino and aroylamino-n-phenylpyridinamines. 4,698,438, 10-6-87, Cl. 546-262.000.

Taylor, Charles H., to Super Brush Co., Inc. Molded mascara application. 4,660,582, 4-28-87, Cl. 132-88.700.

Taylor, Charles W.: *See*—
Krampe, Stephen E.; Moore, Cheryl L.; and Taylor, Charles W., 4,693,776, Cl. 156-327.000.

Taylor, Cheryl J. Activity book with removable manipulatives. 4,702,700, 10-27-87, Cl. 434-168.000.

Taylor, Clive N. Pipe connector. 4,679,825, 7-14-87, Cl. 285-93.000.

Taylor, Clyde L. Module builder with a flared top and with attachments. 4,635,544, 1-13-87, Cl. 100-98.00R.

Taylor, Cynthia L.; and Nash, Judith E. M., to Community of Jesus, Inc. Wheelchair cover and method of using same. 4,693,289, 9-15-87, Cl. 150-52.00R.

Taylor, David, to BIP Chemicals, Ltd. Process for making solid urea-formaldehyde resins. 4,691,001, 9-1-87, Cl. 528-256.000.

Taylor, David E. M. Chemical substances. 4,657,553, 4-14-87, Cl. 623-66.000.

Taylor, David H., to Thermo King Corporation. Transport refrigeration unit with evaporator fan drive using ram air pressure. 4,638,641, 1-27-87, Cl. 62-180.000.

Taylor, David H., to Thermo King Corporation. Transport refrigeration system with thermal storage sink. 4,646,539, 3-3-87, Cl. 62-278.000.

Taylor, David L., Sr.; and Chapman, Hugh N., to Integrated Logic Systems, Inc. Low capacitance transistor cell element and transistor array. 4,684,967, 8-4-87, Cl. 357-23.110.

Taylor, David M., to Advanced Micro Devices, Inc. Method for digital voltage controlled oscillator. 4,672,568, 6-9-87, Cl. 364-721.000.

Taylor, David W. Classifier for comminution of pulverulent material by fluid energy. 4,638,953, 1-27-87, Cl. 241-39.000.

Taylor, Dennis: *See*—
Melhus, Ulf; Olsson, Mats; Bjorkqvist, Nils-Gunnar; Bjorn, Lars-Erik; and Taylor, Dennis, 4,688,465, Cl. 86-20.140.

ylor, Dennis M.: *See*—
Johnson, Bruce S.; and Taylor, Dennis M., 4,684,204, Cl. 439-863.000.

ylor, Dennis R.; and Gaffavan, Kevin P., to Kaiser Aluminum & Chemical Corporation. Treating compositions for used frying oils. 4,701,438, 10-20-87, Cl. 502-405.000.

ylor, Derek, to Allied Corporation. Coupling system, especially for a connector. 4,634,202, 1-6-87, Cl. 339-49.00R.

ylor, Douglas B., to Cooper Cliff Door Manufacturing (1980) Ltd. Apparatus for opening and closing industrial door. 4,690,195, 9-1-87, Cl. 160-310.000.

ylor, Douglas P.; and Lee, David A., to Tayco Developments, Inc. Frictionless hydraulic damper and damper-snubber. 4,638,895, 1-27-87, Cl. 188-280.000.

ylor, Edward C.; Beardsley, George P.; Harrington, Peter J.; and Fletcher, Stephen R., to Princeton University, The Trustees of. Pyrido(2,3-d)pyrimidine derivatives. 4,684,653, 8-4-87, Cl. 514-258.000.

ylor, Edward C.; Katz, Alan H.; Bull, Randy A.; Byers, Lance R.; and Brown, Richard A., to FMC Corporation. Aryl carboxylate process. 4,695,658, 9-22-87, Cl. 568-763.000.

ylor, F. Warren, to Fasco Industries, Inc. Push-in wall mount for vacuum cleaning system. 4,645,150, 2-24-87, Cl. 248-56.000.

ylor, Frank H., to Otis Engineering Corporation. Bleed-off tool for well test system. 4,640,363, 2-3-87, Cl. 166-317.000.

ylor, Frank H., to Otis Engineering Corporation. Bleedoff tool for well test system. 4,693,315, 9-15-87, Cl. 166-336.000.

ylor, Frank S.; and Bourdon, Claude, to Monitronik Ltee. Self-supporting element for mosaic display panel. 4,682,432, 7-28-87, Cl. 40-573.000.

ylor, Garth A.: *See*—
Crook, John A.; and Taylor, Garth A., 4,699,131, Cl. 128-132.00D.

ylor, Gary N.: *See*—
Miller, David A.; Moran, Joseph M.; and Taylor, Gary N., 4,683,024, Cl. 156-643.000.

ylor, George B.: *See*—
Scharton, Terry D.; and Taylor, George B., 4,645,542, Cl. 134-1.000.
Scharton, Terry D.; and Taylor, George B., 4,655,846, Cl. 134-1.000.
Scharton, Terry D.; and Taylor, George B., 4,699,665, Cl. 134-1.000.
Scharton, Terry D.; Taylor, George B.; and Kidd, Charles, 4,700,134, Cl. 324-220.000.

ylor, Glenn A.: *See*—
Hoy, Kenneth L.; and Taylor, Glenn A., 4,659,772, Cl. 524-753.000.

ylor, Glenn N.: *See*—
Widinski, Paul R.; and Taylor, Glenn N., 4,700,943, Cl. 272-96.000.

ylor, Gordon J. Brake shoe retainer mounting assembly. 4,648,491, 3-10-87, Cl. 188-341.000.

ylor, Graham. Elevated bikeway. 4,649,588, 3-17-87, Cl. 14-3.000.

ylor, Graham: *See*—
Jones, Keith; Lothian, Barry R.; Martin, Alexander; Taylor, Graham; and Haq, Zia, 4,668,709, Cl. 521-146.000.

ylor, Greg: *See*—
Silvestri, Frank, 4,694,726, Cl. 84-413.000.

ylor, Harold M.: *See*—
Hirsch, Kenneth S.; Jones, Charles D.; Taylor, Harold M.; and Dillard, Robert D., 4,657,730, Cl. 514-396.000.
Hirsch, Kenneth S.; and Taylor, Harold M., 4,661,508, Cl. 514-396.000.

ylor, Harold S.; and Taylor, John C., to Richards Medical Company. Blind hole targeting device for orthopedic surgery. 4,667,668, 5-26-87, Cl. 128-92.0VV.

ylor, Harvey W., Jr., to Du Pont de Nemours, E. I., and Company. Method of making raised relief circuit board with soldered connections having nomenclature applied thereto. 4,668,603, 5-26-87, Cl. 430-258.000.

ylor, Henry F.; Weller, Joseph F.; and Goldberg, Lew, to United States of America, Navy. Frequency multiples system using injection locking of multiple laser diodes. 4,635,246, 1-6-87, Cl. 370-3.000.

ylor, Henry F.; Rashleigh, Scott C.; Weller, Joseph F.; and Nosu, Kiyoshi, to Sachs/Freeman Associates, Inc. Method and apparatus for acousto-optically shifting the frequency of a light signal propagating in a single-mode fiber. 4,666,255, 5-19-87, Cl. 350-371.000.

ylor, Henry F.: *See*—
Goldberg, Lew; Taylor, Henry F.; and Weller, Joseph F., 4,686,485, Cl. 330-4.300.

ylor, Herbert, to Bijur Lubricating Corp. Pressure locking filler cap. 4,700,866, 10-20-87, Cl. 220-316.000.

ylor, Hugh F.; and Theobald, David R., to Utec B.V. Air weapon with gas-tight expansion chamber. 4,709,686, 12-1-87, Cl. 124-67.000.

ylor, Jack D.; and Collier, L. Warren, IV, to Kimberly-Clark Corporation. Elastic spunlaced polyester-meltblown polyetherurethane laminate. 4,692,368, 9-8-87, Cl. 428-137.000.

ylor, Jack R., to United States of America, Energy. Low NO_x combustor. 4,698,963, 10-13-87, Cl. 60-39.060.

ylor, Jackson H. Protective footwear for animals. 4,633,817, 1-6-87, Cl. 119-96.000.

ylor, James A.; and Taylor, Kenneth G. Neutron logging tool. 4,641,028, 2-3-87, Cl. 250-266.000.

ylor, James B.: *See*—
Jable, Roger D.; and Taylor, James B., 4,699,399, Cl. 280-680.000.

ylor, James C., to Taurus Controls Limited. Fluid flow measurement. 4,696,194, 9-29-87, Cl. 73-861.660.

Taylor, James F. Boat with changeable configuration hull. 4,690,094, 9-1-87, Cl. 114-284.000.

Taylor, James H., administrator: *See*—
Mergenthaler, Barry M.; King, Ronald J.; Kovats, Laszlo L., deceased; Taylor, James H., administrator; and Cone, Richard E., 4,656,344, Cl. 235-462.000.

Taylor, James L., to Standard Oil Company (Indiana); and Gulf Oil Corporation (Pennsylvania). Polar solvent dedusting. 4,670,104, 6-2-87, Cl. 202-84.000.

Taylor, James R.: *See*—
Kuhns, John P.; and Taylor, James R., 4,706,355, Cl. 29-157.30C.

Taylor, James W., Jr. Pneumatic thread tensioning device. 4,637,229, 1-20-87, Cl. 66-146.000.

Taylor, Jefferson H. Frequency attenuation compensated pneumatic headphone and liquid tube audio system for medical use. 4,701,952, 10-20-87, Cl. 381-25.000.

Taylor, Jefferson H.: *See*—
Vinegar, Harold J.; and Taylor, Jefferson H., 4,651,099, Cl. 324-320.000.

Taylor, Jerald M. Adjustable electric outlet box. 4,634,015, 1-6-87, Cl. 220-3.700.

Taylor, Jerry A., Sr., to Thermco Systems, Inc. Gas scavenger. 4,711,197, 12-8-87, Cl. 118-715.000.

Taylor, Jimmie. Top for motorcycles and snowmobiles. 4,681,362, 7-21-87, Cl. 296-78.103.

Taylor, John C.: *See*—
Taylor, Harold S.; and Taylor, John C., 4,667,664, Cl. 128-92.0VV.

Taylor, John D.; and Honn, Kenneth V., to Wayne State University. Inhibition of tumor growth and metastasis with calcium channel blocker compounds. 4,690,935, 9-1-87, Cl. 514-356.000.

Taylor, John E.; and Keene, Ian W., to BICC Public Limited Company. Optical fibre element housed in a tube resiliently set in a form such that its longitudinal axis follows a path greater than the rectilinear distance between points to be connected. 4,690,499, 9-1-87, Cl. 350-96.23O.

Taylor, John E.; and Keene, Ian W., to BICC Public Limited Company. Overhead flexible electric conductor. 4,699,461, 10-13-87, Cl. 350-96.23O.

Taylor, John F.: *See*—
Statham, Roger; and Taylor, John F., 4,636,389, Cl. 426-11.000.

Taylor, John S.: *See*—
Chadwick, Curt H.; Shulenberger, Art M.; Taylor, John S.; and Simmons, Richard R., 4,639,587, Cl. 250-2(1.000.

Taylor, John W.: *See*—
Curry, David G.; and Taylor, John W., 4,671,015, Cl. 49-465.000.

Taylor, John W., Jr.; and Hodges, Michael J., to Westinghouse Electric Corp. Stacked beam radar and target height measurement extractor especially for use therein. 4,649,389, 3-10-87, Cl. 342-123.000.

Taylor, John W., Jr., to Westinghouse Electric Corp. Selectable doppler filter for radar systems. 4,709,236, 11-24-87, Cl. 342-101.000.

Taylor, John W., Jr., to Westinghouse Electric Corp. Point clutter threshold determination for radar systems. 4,713,664, 12-15-87, Cl. 342-91.000.

Taylor, Joseph R., Jr. Belt abrading apparatus and method. 4,642,943, 2-17-87, Cl. 51-135.00R.

Taylor, Julian D.: *See*—
Puresevic, Peter J.; Taylor, Julian D.; and O'Sullivan, Denis, 4,673,095, Cl. 215-220.000.

Taylor, Julian S. Multiple stage choke valve. 4,634,095, 1-6-87, Cl. 251-121.000.

Taylor, Keith H.: *See*—
Morissette, Pierre; Stewart, Alexander W.; and Taylor, Keith H., 4,682,505, Cl. 73-862.340.

Taylor, Keith M.; Horng, Liou-Liang; and Hirzel, Timothy K., to Monsanto Company. Process for producing diperoxonic acids. 4,680,145, 7-14-87, Cl. 260-502.00R.

Taylor, Kenneth: *See*—
Whitehead, Graham K.; and Taylor, Kenneth, 4,682,270, Cl. 361-401.000.

Taylor, Kenneth G.: *See*—
Taylor, James A.; and Taylor, Kenneth G., 4,641,028, Cl. 250-266.000.

Taylor, Kenneth J.: *See*—
Clark, Michael; and Taylor, Kenneth J., 4,641,817, Cl. 267-140.100.
Taylor, Rollin E.; and Taylor, Kenneth J., 4,676,020, Cl. 43-42.023.

Taylor, Kenneth W., to University of Toronto Innovations Foundation. Scanning apparatus. 4,696,025, 9-22-87, Cl. 378-146.000.

Taylor Kerr (Energy Products) Limited: *See*—
Webb, Ian R.; Taylor, Neil J. T.; and Taylor, William, 4,671,54[illegible], Cl. 285-112.000.

Taylor, Larry D.; Reel, David A.; and Renfro, Gene R., to General Electric Company. Variable discharge grill for room air conditioner. 4,633,770, 1-6-87, Cl. 98-94.200.

Taylor, Larry T.: *See*—
Rector, Robert E.; Taylor, Larry T.; and Grassi, Richard J., 4,661,808, Cl. 340-735.000.

Taylor, Lawrence D., to Brandt, Inc. Electronic controller for dispensers and the like. 4,709,914, 12-1-87, Cl. 271-263.000.

Taylor, Lawrence D., to Brandt, Inc. Electronic controller for dispensers and the like. 4,711,441, 12-8-87, Cl. 271-6.000.

Taylor, Lawrence D., to Brandt, Inc. Electro-optical paper dispenser controller having a variable gain amplifier with digital input control means. 4,716,286, 12-29-87, Cl. 250-214.00R.

Taylor, Lawrence H. Metallic structural member particularly for support of walls and floors of buildings. 4,638,615, 1-27-87, Cl. 52-364.000.

Taylor, Leo O.: *See*—
Dawson, Christopher; Heatley, Fritz W.; and Taylor, Leo O., 4,712,885, Cl. 350-443.000.

Taylor, Lloyd D.; and Haubs, Michael K., to Polaroid Corporation. Polymeric pyridinium yides and products prepared from same. 4,670,528, 6-2-87, Cl. 526-263.000.

Taylor, Lloyd D.: *See*—
Bartels-Keith, James R., deceased; Puttick, Anthony J.; and Taylor, Lloyd D., 4,713,313, Cl. 430-251.000.

Taylor, Lyn P.: *See*—
Ross, Sidney A.; and Taylor, Lyn P., 4,690,142, Cl. 128-419.00R.

Taylor Made Products Co.: *See*—
Hall, David G., 4,706,804, Cl. 206-45.140.

Taylor, Malcolm E.: *See*—
Pereira, Joseph J.; Taylor, Malcolm E.; and Sawaf, Bernard, 4,682,689, Cl. 206-222.000.

Taylor, Malcolm R.: *See*—
Barr, John D.; Matthias, Terry R.; and Taylor, Malcolm R., 4,669,556, Cl. 175-329.000.
Barr, John D.; and Taylor, Malcolm R., 4,697,654, Cl. 175-329.000.

Taylor, Mark P.: *See*—
Chyung, Kenneth; Fenn, Philip M.; and Taylor, Mark P., 4,707,458, Cl. 501-4.000.
Gadkaree, Kishor P.; Montiertn, Max R.; and Taylor, Mark P., 4,673,658, Cl. 501-89.000.

Taylor, Maurice E.: *See*—
Finegold, Aaron N.; and Taylor, Maurice E., 4,711,231, Cl. 128-79.000.

Taylor, Maurice L., to Rolls-Royce plc. Gas turbine engine power plant. 4,679,394, 7-14-87, Cl. 60-224.000.

Taylor, Michael B.: *See*—
Callingham, Martin; Chaudhuri, Dwaipayan; Curry, Kenneth V.; Pike, Barry G.; and Taylor, Michael B., 4,650,670, Cl. 424-65.000.

Taylor, Michael D.; and Badger, Edward W., to Warner-Lambert Company. 2-alkylidene derivatives of 1,2,3,4-tetrahydropyridine-2,5-pyridine carboxylic acid dialkyl esters useful for treatment of cardiovascular disorders. 4,678,796, 7-7-87, Cl. 514-356.000.

Taylor, Monroe F., to W. R. Grace & Co., Cryovac Div. Vertical form-fill seal process and machine with product catching device. 4,709,532, 12-1-87, Cl. 53-451.000.

Taylor, Neil J. T.: *See*—
Webb, Ian R.; Taylor, Neil J. T.; and Taylor, William, 4,671,541, Cl. 285-112.000.

Taylor, Noel R.; and Taylor, Paul A. Automatic load seeking control for a motor. 4,691,155, 9-1-87, Cl. 318-771.000.

Taylor, Owen S., to United States of America, Navy. MHD pinch interrupting switch for high currents. 4,663,503, 5-5-87, Cl. 200-144.00R.

Taylor, Owen S., to Westinghouse Electric Corp. Method and apparatus for penetrating ice. 4,699,222, 10-13-87, Cl. 175-18.000.

Taylor, Paul. Infinitely variable transmission. 4,662,245, 5-5-87, Cl. 74-785.000.

Taylor, Paul A.: *See*—
Taylor, Noel R.; and Taylor, Paul A., 4,691,155, Cl. 318-771.000.

Taylor, Paul H., to Tayco Developments, Inc. Electrically operated valve assembly for controlling a piston and cylinder construction, piston and cylinder assembly incorporating said valve, and self-contained system including pressurized fluid and hydraulic actuator. 4,674,398, 6-23-87, Cl. 91-459.000.

Taylor, Paul R. Power train having an infinitely variable transmission. 4,704,923, 11-10-87, Cl. 74-785.000.

Taylor, Peter; and Griffin, Roger B. Releasable coupling. 4,708,548, 11-24-87, Cl. 409-234.000.

Taylor, Peter: *See*—
Lockhoff, Oswald; Kruger, Bernd-Wieland; Stadler, Peter; Paessens, Arnold; Streissle, Gert; Taylor, Peter; Zeiler, Hans-Joachim; and Metzger, Karl-Georg, 4,686,208, Cl. 514-42.000.

Taylor, Peter J., to PA Consulting Services Limited. Adaptive pattern recognition. 4,637,055, 1-13-87, Cl. 382-31.000.

Taylor, Peter J.; Clarke, Alan; and Thompson, John S., to Plessey Overseas Ltd. Fuel supply systems. 4,691,510, 9-8-87, Cl. 60-39.094.

Taylor, Peter J.: *See*—
Ridler, Keith D.; Taylor, Peter J.; Poley, John; Norvall, Christopher W.; and Upton, John, 4,685,475, Cl. 131-84.100.

Taylor, Peter W., to Molecular Diagnostics, Inc. Enzymatic detection of bacterial capsular polysaccharide antigens. 4,695,541, 9-22-87, Cl. 435-18.000.

Taylor, Richard H. Ferrule extractor. 4,672,731, 6-16-87, Cl. 29-259.000.

Taylor, Richard H.: *See*—
Taylor, William R., Jr.; Taylor, Robert L.; and Taylor, Richard H., 4,683,597, Cl. 4-295.000.

Taylor, Richard J.; Kellar, Paul R. N.; and Hinson, Neil R., to Quantel Limited. Video processing systems. 4,709,393, 11-24-87, Cl. 382-41.000.

Taylor, Richard P.: *See*—
Krill, Wayne V.; Taylor, Richard P.; and Wong, Thomas, 4,688,335, Cl. 34-41.000.

Taylor, Richard Q.: *See*—
Mori, Yukimori; and Taylor, Richard Q., 4,716,067, Cl. 428-117.000.

Taylor, Ritchie S. Maritime wind shift alarm system and method of detecting wind shifts. 4,673,924, 6-16-87, Cl. 340-601.000.

Taylor, Robert B.: *See*—
Richards, James C.; and Taylor, Robert B., 4,657,869, Cl. 435-287.000.

Taylor, Robert D., to Ehle, Allen F. Automatic tire pressurizing system. 4,651,792, 3-24-87, Cl. 152-415.000.

Taylor, Robert E. Clamping device. 4,660,816, 4-28-87, Cl. 269-238.000.

Taylor, Robert E., deceased: *See*—
Chenot, Charles F.; Taylor, Robert E., deceased; Chiola, Vincent, executrix; and Walter, Wolfgang, 4,698,548, Cl. 313-487.000.

Taylor, Robert L.: *See*—
Taylor, William R., Jr.; Taylor, Robert L.; and Taylor, Richard H., 4,683,597, Cl. 4-295.000.

Taylor, Robert N.: *See*—
Seidler, Jack; and Taylor, Robert N., 4,671,602, Cl. 439-857.00.

Taylor, Robert V., to Techsearch Inc. Security bag. 4,653,113, 3-24-87, Cl. 383-5.000.

Taylor, Roderick S.; and Leopold, Kurt E., to Canadian Patents and Development Limited. Magnetically induced pulser laser excitation system. 4,679,203, 7-7-87, Cl. 372-86.000.

Taylor, Roger W.; and Templin, Arthur R., to Masco Corporation. Prefabricated multi-wall chimney. 4,666,189, 5-19-87, Cl. 285-47.00.

Taylor, Rollin E.; and Taylor, Kenneth J. Fishing lure providing changeable effects. 4,676,020, 6-30-87, Cl. 43-42.020.

Taylor, Roy M., Jr.; and Klemm, Steven R., to Amway Corporation. Drain cleaner. 4,664,836, 5-12-87, Cl. 252-91.000.

Taylor, Shelton E. Refrigerant recovery and purification system. 4,646,527, 3-3-87, Cl. 62-85.000.

Taylor, Sheryl L.: *See*—
Behan, Diane E., 4,641,647, Cl. 128-207.180.

Taylor, Stewart A.; and Gullette, James C., to Taylor, Stewart A. Apparatus for shooting a projectile. 4,703,744, 11-3-87, Cl. 124-20.00R.

Taylor, Stewart S.: *See*—
Penney, Bruce J.; and Taylor, Stewart S., 4,701,694, Cl. 323-317.000.

Taylor, Theodore: *See*—
Brody, George C.; Ma, Francis K.; Nissen, Robert C.; Taylor, Theodore; Patel, Raju; and Ziesman, Craig A., 4,670,897, Cl. 379-60.000.

Taylor, Theodore E.: *See*—
Sutphin, Melvin W.; and Taylor, Theodore E., 4,663,765, Cl. 375-5.000.

Taylor, Thomas. Directional device for golfers. 4,669,725, 6-2-87, Cl. 273-33.000.

Taylor, Thomas C.; and Cerna, Peter. Aerospike for attachment to space vehicle system. 4,650,139, 3-17-87, Cl. 244-161.000.

Taylor, Thomas M.; and Taylor, Alfred W. Apparatus and method for pulverizing asphalt. 4,704,045, 11-3-87, Cl. 404-90.000.

Taylor, William. Safety guard for power-take-off shaft. 4,663,894, 5-12-87, Cl. 74-608.000.

Taylor, William: *See*—
Peters, Rudolph; Peters, Ronald L.; and Taylor, William, 4,646,740, Cl. 128-325.000.
Peters, Rudolph; Peters, Ronald; and Taylor, William, 4,712,549, Cl. 128-325.000.
Webb, Ian R.; Taylor, Neil J. T.; and Taylor, William, 4,671,541, Cl. 285-112.000.

Taylor, William A., to International Fuel Cells Corporation. Fuel cell powerplant employing an aqueous solution. 4,670,357, 6-2-87, Cl. 429-12.000.

Taylor, William A.; and Abrams, Martin L., to International Fuel Cells Corporation. Fuel cell coolant inlet manifold and system. 4,706,737, 11-17-87, Cl. 165-47.000.

Taylor, William A.: *See*—
Sanuelli, Gregory J.; and Taylor, William A., 4,643,956, Cl. 429-34.000.

Taylor, William B.: *See*—
Bustos, Rafael T.; and Taylor, William B., 4,708,552, Cl. 411-60.000.

Taylor, William D. Safety vehicle. 4,640,527, 2-3-87, Cl. 280-781.00.

Taylor, William D.: *See*—
Miller, William H.; and Taylor, William D., 4,694,081, Cl. 544-385.000.
Miller, William H.; and Taylor, William D., 4,694,082, Cl. 544-385.000.

Taylor, William E. G.: *See*—
Dunlop, Raymond B.; and Taylor, William E. G., 4,679,704, Cl. 222-56.000.

Taylor, William M.: *See*—
Schmitz, Thomas R.; and Taylor, William M., 4,646,494, Cl. 285-18.000.

Taylor, William R., Jr.; Taylor, Robert L.; and Taylor, Richard H. Drain plug. 4,683,597, 8-4-87, Cl. 4-295.000.

Taylor, William T.; and Lane, Bennie L. Fascia including means for rigidly securing a membrane in place. 4,665,667, 5-19-87, Cl. 52-96.000.

Taylor, William W., Jr.: *See*—
Clarkson, Bruce A.; Frere, Ronald J.; Loughlin, Thomas G.; Taylor, William W., Jr.; and Mongeau, Peter, 4,712,398, Cl. 70-276.000.

Taylor-Winfield Corporation, The: *See*—
Mullane, William E.; and Lund, David, 4,642,442, Cl. 219-10.410.
Mullane, William E.; and Lund, David, 4,661,668, Cl. 219-10.410.

Tayot, Jean-Louis; and Tardy, Michel, to Institut Merieux. Porous mineral support coated with an aminated polysaccharide polymer. 4,673,734, 6-16-87, Cl. 530-364.000.

Tayot, Jean-Louis: *See*—
Dromard, Adrien; Exertier, Michel; Rollin, Claude; Tayot, Jean-Louis; and Tardy, Michel, 4,675,384, Cl. 530-364.000.

Tazaki, Michiharu: Latch mechanism for furniture or the like. 4,653,820, 3-31-87, Cl. 312-333.000.

Tazaki, Satoru, to Clarion Co., Ltd.: AC-DC transformation circuit. 4,685,048, 8-4-87, Cl. 363-127.000.

Tazaki, Satoru; Yoshioka, Yasuhiro; and Amazawa, Kiyoshi, to Clarion Co., Ltd.: Control voltage generating circuit for activating a noise reduction circuit in an FM stereo receiver. 4,694,500, 9-15-87, Cl. 381-10.000.

Tazaki, Satoru, to Clarion Co., Ltd.: Circuit for controlling separation and high-cut operation of a stereo demodulator in an FM radio receiver. 4,710,958, 12-1-87, Cl. 381-10.000.

Tazaki, Shigemitsu, to Canon Kabushiki Kaisha: Multi-color printer with frame producing means. 4,651,175, 3-17-87, Cl. 346-140.00R.

Tazaki, Shigemitsu, to Canon Kabushiki Kaisha: Ink storing apparatus with a first case having plural ink tanks and a second case having one ink tank and a waste ink receptacle. 4,695,824, 9-22-87, Cl. 346-140.00R.

Tazawa, Akira: *See*—
Summura, Shin-ichi; and Tazawa, Akira, 4,696,970, Cl. 524.860.000.

Tazawa, Hiroaki: *See*—
Ando, Isao; Tazawa, Hiroaki; Sako, Yuji; Ootsuka, Shigeharu; Mizuno, Yuji; and Ikeda, Kosaku, 4,671,697, Cl. 403-325.000.
Mori, Teijiro; Wada, Yuichi; Sako, Yuji; Tazawa, Hiroaki; and Okado, Hiroyuki, 4,642,429, Cl. 200-144.00R.

Tazawa Koomuten Co., Ltd.: *See*—
Tazawa, Yoshio, 4,643,388, Cl. 249-219.00W.

Tazawa, Masato: *See*—
Yamakita, Hiromi; Hayakawa, Kiyoshi; Tazawa, Masato; and Taeda, Hiroshi, 4,647,348, Cl. 204-59.00R.

Tazawa, Shigemoto; and Ayata, Naoki, to Canon Kabushiki Kaisha: System for controlling drive of a wafer stage. 4,641,071, 2-3-87, Cl. 318-640.000.

Tazawa, Shinichi: *See*—
Tazawami, Hideo; Tazawa, Shinichi; Endo, Masami; and Kinoshita, Masaharu, 4,674,236, Cl. 51-325.000.

Tazawa, Yoshio, to Tazawa Koomuten Co., Ltd.: Device for holding reinforcing materials on concrete-applying frames. 4,643,388, 2-17-87, Cl. 249-219.00W.

Tazewell, Joseph H.: *See*—
Bryant, Lynn A.; Roberts, Durward T., Jr.; Beckman, Joseph A.; Tazewell, Joseph H.; and Cetnar, James F., 4,644,420, Cl. 156-116.000.

Tazoh, Yasuo: *See*—
Kobayashi, Keisuke; and Tazoh, Yasuo, 4,638,185, Cl. 307-352.000.

Tazou, Ken: *See*—
Ookubo, Takeshi; Shiraishi, Motoatsu; Namiki, Akira; and Tazou, Ken, 4,688,668, Cl. 198-621.000.
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,658,626, Cl. 72-405.000.
Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, 4,682,685, Cl. 198-621.000.

Tazuma, James J.: *See*—
Bergomi, Angelo; and Tazuma, James J., 4,656,266, Cl. 544-85.000.

TBA Industrial Products Limited: *See*—
Lord, Allan, 4,664,968, Cl. 428-240.000.

TBG Inc.: *See*—
Carsello, John P., 4,654,626, Cl. 338-172.000.

TBI: *See*—
Barben, Theodore R., II, 4,682,113, Cl. 324-441.000.

TBI Development Corporation: *See*—
Towns, Edward J.; Brown, Edward M.; and Lester, William M., 4,673,096, Cl. 215-230.000.
Towns, Edward J.; Brown, Edward M.; and Lester, William M., 4,674,642, Cl. 215-230.000.
Towns, Edward J.; and Brown, Edward M., 4,685,580, Cl. 215-260.000.
Towns, Edward J.; and Brown, Edward M., 4,697,714, Cl. 215-252.000.

TCH Thermo-Consulting-Heidelberg GmbH: *See*—
Vinkis, Mucic, 4,702,081, Cl. 60-655.000.

Tchejeyan, Sarkis K.: *See*—
Kitzmann, Ronald A.; and Tchejeyan, Sarkis K., 4,694,130, Cl. 200-314.000.

Tchernev, Dimiter I.: Heat pump energized by low-grade heat source. 4,637,218, 1-20-87, Cl. 62-106.000.

TCHIBO-Frisch-Rost-Kaffee AG: *See*—
Kaatze, Michael; and Reiff, Dieter, 4,642,906, Cl. 34-12.000.

Tchorbajian, Nichan; and Fitzgerald, Edward P., to Advanced Systems Development, Inc.: Digital scan converter and method therefor. 4,689,675, 8-25-87, Cl. 358-140.000.

TCI, Inc.: *See*—
Robinson, Jon L., 4,660,987, Cl. 366-67.000.

TDK Corporation: *See*—
Akachi, Yoshiaki; and Matsumaru, Takeo, 4,635,019, Cl. 336-180.000.
Arioka, Hiroyuki; Ishizaki, Hideki; and Ide, Toshiaki, 4,666,754, Cl. 428-141.000.
Fuji, Tatsuo, 4,700,839, Cl. 206-444.000.
Fujiwara, Shinobu; Satoh, Atsushi; Hattori, Tetsuya; and Sutoh, Junichi, 4,692,422, Cl. 501-136.000.
Fukushima, Kiyoto; Takamatsu, Shigeru; and Kitaura, Eiji, 4,659,626, Cl. 428-425.900.
Herada, Yoshio, 4,675,993, Cl. 29-740.000.
Hirabayashi, Yasuyuki; and Sugiura, Juro, 4,706,145, Cl. 360-118.000.
Ide, Toshiaki; Shimozawa, Tohru; and Nishimatsu, Masaharu, 4,699,819, Cl. 428-141.000.
Ihara, Keiichi, 4,677,745, Cl. 29-741.000.
Iizuka, Michio; and Shiba, Haruo, 4,656,550, Cl. 360-133.000.
Iizuka, Michio; and Shiba, Haruo, 4,677,516, Cl. 360-133.000.
Iizuka, Michio; and Shiba, Haruo, 4,710,839, Cl. 360-133.000.
Ikebe, Masara; Satoh, Takateru; and Tanaka, Kimio, 4,671,469, Cl. 242-198.000.
Ikeda, Masaaki; Takahara, Wataru; Iteguchi, Junichi; Satoh, Hiroyuki; and Itoh, Shyuji, 4,642,732, Cl. 361-321.000.
Imai, Yuji, 4,642,168, Cl. 204-129.650.
Ishida, Toshihiko; and Nunokawa, Eiichi, 4,646,916, Cl. 206-387.000.
Ishino, Ken; Hashimoto, Yasuo; Hayashi, Katuhiko; and Misawa, Nobutaka, 4,689,460, Cl. 219-10.55D.
Ishizaki, Hideki; Hasegawa, Osamu; and Nishimatsu, Masaharu, 4,677,023, Cl. 428-323.000.
Isobe, Yukihiro; Tanaka, Kazushi; Nishimatsu, Masaharu; Shinoura, Osamu; and Kubota, Yuichi, 4,670,340, Cl. 428-339.000.
Kajimoto, Norifumi; and Azegami, Hitoshi, 4,643,934, Cl. 428-141.000.
Kambe, Hirokazu; Kuroda, Kazuhiro; and Hayama, Masashi, 4,689,263, Cl. 428-212.000.
Katoh, Tomio, 4,703,296, Cl. 335-208.000.
Kawaguchi, Yukio; and Yamaguchi, Masayasu, 4,650,774, Cl. 501-87.000.
Kobayashi, Mikiya; Nakada, Takeshi; and Arai, Michio, 4,679,056, Cl. 346-76.0PH.
Miki, Nobuyuki; Yamaoka, Hiroshi; and Tanaka, Yoichi, 4,712,085, Cl. 338-22.0SD.
Morita, Haruyuki; Yoshinari, Jiro; and Fukuda, Kazumasa, 4,636,448, Cl. 428-607.000.
Morita, Haruyuki; Yoshinari, Jiro; and Fukuda, Kazumasa, 4,642,270, Cl. 428-621.000.
Nakayama, Masatoshi; Morita, Haruyuki; Kubota, Yuichi; and Tsuchiya, Keiko, 4,699,847, Cl. 428-522.000.
Namba, Kenryo; Asami, Shigeru; Aoi, Toshiki; Takahashi, Kazuo; and Kurotwa, Akihiko, 4,713,314, Cl. 430-270.000.
Narumiya, Yoshikazu; Hashimoto, Yasuo; Yui, Hiroshi; and Kageyama, Yoshiteru, 4,690,778, Cl. 252-506.000.
Nishimatsu, Masaharu; Ide, Toshiaki; Saito, Yoshiaki; and Kubota, Yuichi, 4,637,963, Cl. 428-694.000.
Nishimatsu, Masaharu; Ide, Toshiaki; and Arioka, Hiroyuki, 4,639,389, Cl. 428-141.000.
Nishimatsu, Masaharu; Arioka, Hiroyuki; and Ishizaki, Hideki, 4,693,934, Cl. 428-336.000.
Nishimatsu, Masaharu; Takayama, Suguru; and Arioka, Hiroyuki, 4,701,375, Cl. 428-336.000.
Ohta, Hiroshi; and Sasaki, Kinji, 4,650,713, Cl. 428-328.000.
Okamura, Masatoshi; Shiba, Haruo; and Akaoka, Kenkichi, 4,663,689, Cl. 360-132.000.
Okamura, Masatoshi; and Shiba, Haruo, 4,679,109, Cl. 360-132.000.
Okamura, Masatoshi; Shiba, Haruo; Hashizume, Kenji; and Sakata, Yoshiya, 4,682,259, Cl. 360-132.000.
Ota, Hiroshi, 4,650,717, Cl. 428-403.000.
Ota, Hiroshi, 4,692,377, Cl. 428-323.000.
Satoh, Takateru; Shiba, Haruo; and Nunokawa, Eiichi, 4,682,258, Cl. 360-132.000.
Sawamura, Kentaro; Kosaka, Yoshio; and Yamaguchi, Masayasu, 4,672,046, Cl. 501-98.000.
Sawamura, Kentaro; Kosaka, Yoshio; and Yamaguchi, Masayasu, 4,711,861, Cl. 501-98.000.
Shiba, Haruo; Sato, Takateru; Tanaka, Kimio; and Sakata, Yoshiya, 4,688,128, Cl. 360-132.000.
Shiba, Haruo; and Sakata, Yoshiya, 4,707,757, Cl. 360-132.000.
Shimada, Shigeru; Nishimatsu, Masaharu; Arioka, Hiroyuki; and Kubota, Yuichi, 4,678,708, Cl. 428-336.000.
Shimozawa, Toru; Nishimatsu, Masaharu; and Saito, Yoshiaki, 4,702,959, Cl. 428-323.000.
Shirai, Hirofusa; Hanabusa, Kenji; Kitamura, Mitsutoshi; Hino, Nobumasa; and Hirabaru, Okikazu, 4,663,084, Cl. 252-600.000.
Takayama, Suguru; and Shigeta, Masao, 4,637,843, Cl. 420-73.000.
Takeuchi, Michikazu, 4,635,026, Cl. 338-22.0SD.
Takeuchi, Michikazu; and Ishizu, Yoshiaki, 4,644,316, Cl. 338-22.00R.
Tokuoka, Yasumichi; Yamakawa, Yoshisuke; and Watanabe, Akio, 4,663,246, Cl. 428-694.000.
Tokuoka, Yasumichi; Arai, Hitoshi; Higuchi, Norio; and Hotsuki, Hideki, 4,670,337, Cl. 428-323.000.
Tokuoka, Yasumichi; Yamakawa, Yoshisuke; and Watanabe, Akio, 4,684,546, Cl. 427-130.000.
Towatari, Yoshishige; and Akoh, Tetsuo, 4,668,925, Cl. 333-219.000.
Umeya, Kazumasa; Shioi, Ryoichi; Senzaki, Hisao; Nakagawa, Hisao; Koyama, Shoji; and Kataoka, Hideshi, 4,654,510, Cl. 219-541.000.
Watabe, Seiji; Yokoyama, Isao; Sasaki, Masanori; Toyoshima, Yotaro; Takahashi, Sumio; and Maeda, Tsutomu, 4,714,908, Cl. 335-212.000.
Yoda, Kunichi; Kitaura, Eiji; Tsunoda, Tsutomu; and Kawakami, Yoshio, 4,713,278, Cl. 428-141.000.

TDK Electronics Co., Ltd.: *See—*
Fujita, Hideo; Saito, Yuichi; and Miura, Masatoshi, 4,638,205, Cl. 310-312.000.
Kajimoto, Noribumi; Kawakami, Yoshio; and Takizawa, Masahiro, 4,673,622, Cl. 428-423.100.
Te-Chin Handicraft Enterprise Co., Ltd.: *See—*
Gingline, Lin, 4,679,806, Cl. 280-47.380.
TE-Co.: *See—*
Longenecker, Francis S.; Moeder, Kevin J.; and Wolff, Jeffrey L., 4,711,437, Cl. 269-91.000.
Teac Corporation: *See—*
Aikawa, Shinichi; Shibuya, Hiroshi; Kato, Hideyo; and Nishimoto, Akira, 4,700,249, Cl. 360-104.000.
Araki, Tetsuro; and Onda, Hiroyuki, 4,644,324, Cl. 340-347.0DA.
Araki, Tetsuro; and Onda, Hiroyuki, 4,686,509, Cl. 340-347.0DA.
Araki, Tetsuro; and Onda, Hiroyuki, 4,700,173, Cl. 340-347.0AD.
Enami, Katsuya; Tsuyuguchi, Hiroshi; and Sakaguchi, Takahiro, 4,677,359, Cl. 318-69.00G.
Enami, Katsuya; Tsuyuguchi, Hiroshi; and Sakaguchi, Takahiro, 4,697,129, Cl. 318-696.000.
Enami, Katsuya; Kawamura, Sinobu; Nagase, Fumio; and Aikawa, Shinichi, 4,709,285, Cl. 360-104.000.
Inoue, Kazuhiko, 4,658,163, Cl. 310-80.000.
Inoue, Kazuhiko; Kawasaki, Tsutomu; and Ihana, Toshio, 4,709,281, Cl. 360-97.000.
Kitahara, Toshihiro; Sakai, Yoshiaki; Kobayashi, Kou; and Kikuchi, Satoru, 4,709,283, Cl. 360-99.000.
Matsunaga, Hiroshi; and Morita, Shinichi, 4,696,099, Cl. 29-603.000.
Morita, Tsutomu; Toma, Shozo; and Sakai, Yoshiaki, 4,651,235, Cl. 360-46.000.
Noda, Yasushi; and Shiroyama, Kazuhiko, 4,675,762, Cl. 360-97.000.
Noda, Yasushi; Kitahara, Toshihiro; and Tsuyuguchi, Hiroshi, 4,688,131, Cl. 360-137.000.
Noda, Yasushi; and Kitahara, Toshihiro, 4,692,828, Cl. 360-97.000.
Sakaguchi, Takahiro, 4,658,311, Cl. 360-97.000.
Sakaguchi, Takahiro, 4,700,245, Cl. 360-97.000.
Sakai, Yoshiaki; Tsuyuguchi, Hiroshi; Noda, Yasushi; and Sakaguchi, Takahiro, 4,675,763, Cl. 360-97.000.
Sakai, Yoshiaki; and Tsuyuguchi, Hiroshi, 4,691,255, Cl. 360-69.000.
Shimizu, Tokuzo, 4,684,078, Cl. 242-199.000.
Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hiraki, Kazuhiro; and Morita, Tsutomu, 4,677,510, Cl. 360-99.000.
Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hiraki, Kazuhiro; and Morita, Tsutomu, 4,688,112, Cl. 360-60.000.
Sukigara, Motoyuki; and Yasuda, Kazuhiko, 4,696,439, Cl. 242-186.000.
Tsuchiya, Isamu; and Ihana, Toshio, 4,665,454, Cl. 360-97.000.
Tsuchiya, Isamu; and Hirasawa, Kiyoshi, 4,689,782, Cl. 369-270.000.
Tsuchiya, Isamu; Kawasaki, Tsutomu; and Sakai, Yoshiaki, 4,694,361, Cl. 360-97.000.
Tsuyuguchi, Hiroshi; and Toma, Shozo, 4,658,307, Cl. 360-69.000.
Tsuyuguchi, Hiroshi; Morita, Tsutomu; and Shoji, Makoto, 4,700,243, Cl. 360-69.000.
Uemura, Yasuhiro, 4,701,817, Cl. 360-96.500.
Teac Corporttion: *See—*
Ando, Yasuhiko, 4,697,467, Cl. 74-89.200.
Teach, Eugene G., to Stauffer Chemical Company. Haloacyl and thiohaloacyl aryl-substituted oxazolidines and thiazolidines - herbicidal antidotes. 4,636,244, 1-13-87, Cl. 71-90.000.
Teach, Eugene G., to Stauffer Chemical Co. Haloacetamidines and the herbicidal use thereof. 4,670,593, 6-2-87, Cl. 564-245.000.
Teach, Eugene G.: *See—*
Buren, Lawrence L.; James, Donald R.; Randolph, Barney J.; Teach, Eugene G.; Tilles, Harry; and Walker, Francis H., 4,695,314, Cl. 71-100.000.
Felix, Raymond A.; and Teach, Eugene G., 4,650,512, Cl. 71-88.000.
Teach, Ted L.; and Sobottke, Mark D., to Spectra-Physics, Inc. Lighthouse structure and compensating lens in reference laser beam projecting apparatus. 4,662,707, 5-5-87, Cl. 350-6.500.
Teach, Ted L.: *See—*
Cain, Gary L.; Meyers, Lawrence J.; Teach, Ted L.; Rando, Joseph F.; and Markley, Theodore J., 4,679,937, Cl. 356-138.000.
Markley, Theodore J.; Teach, Ted L.; Hart, Edward E.; and Pohl, William C., 4,654,856, Cl. 372-65.000.
Teagno, Vladimiro: *See—*
D'Urso, Gianfranco; and Teagno, Vladimiro, 4,699,441, Cl. 439-397.000.
Teague, John E. Clipboard holder. 4,667,919, 5-26-87, Cl. 248-450.000.
Teague, Richard M., to Anteg Incorporated. Sock boarding method and apparatus. 4,658,995, 4-21-87, Cl. 223-76.000.
Teague, Richard M.: *See—*
Annas, Dulin L., Sr.; and Teague, Richard M., 4,697,857, Cl. 312-306.000.
Teague, Terry S.; Jackson, Donald A.; Kerske, James L.; Nichols, Stephen R.; and McGuire, Robert L., to Glen O'Brien Movable Partition Company, Inc. Component mounting system for prefabricated walls and the like. 4,688,750, 8-25-87, Cl. 248-243.000.
Teal, Richard D.: *See—*
Reilly, Roger D.; Teal, Richard D.; and Hoffman, Robert A., 4,688,819, Cl. 280-461.00A.
Team Construction and Fabrication, Inc.: *See—*
Falgout, Thomas E., Sr.; and Schoeffler, William N., 4,715,493, Cl. 175-73.000.
Team Corporation: *See—*
Woyski, William B.; Huntley, Bruce L.; and Tauscher, Robert C., 4,635,764, Cl. 188-268.000.
Team Engineering and Manufacturing, Inc.: *See—*
Falgout, Thomas E., Sr.; and Schoeffler, William N., 4,715,253, Cl. 81-57.140.
Team, Inc.: *See—*
Harrison, George W., 4,709,729, Cl. 138-99.000.
Teape, John W.: *See—*
Avison, Gerald; Teape, John W.; and Willer, Paul H. F., 4,640,321, Cl. 140-93.00A.
Teass, Horace A., Jr. Fail safe circuit for a salinity monitor. 4,668,941, 5-26-87, Cl. 340-603.000.
Teather, Roy; and Scott, Michael, to Stieger Limited. System for remotely adjusting a parameter of an electrical circuit within an enclosure. 4,704,607, 11-3-87, Cl. 340-825.070.
Tebbe, Frederick N., to Du Pont de Nemours, E. I., and Company. Melt-formable organoaluminum polymer. 4,696,968, 9-29-87, Cl. 524-610.000.
Tebbe, Gerhard, to Fichtel & Sachs AG. Torsional vibration damper. 4,687,087, 8-18-87, Cl. 192-106.200.
Tebben, John A. Row crop cultivator with setting indicator. 4,650,005, 3-17-87, Cl. 172-430.000.
Tec-Air, Inc.: *See—*
Swin, Richard E., Sr.; and Atalla, Anwar A., 4,711,161, Cl. 98-31.500.
Teccor Electronics, Inc.: *See—*
Norris, Richard G.; Webb, Monty F.; and Le, Vinh Q., 4,695,120, Cl. 339-26.000.
Tech-Line Instruments: *See—*
Arthur, Robert M., 4,650,767, Cl. 435-291.000.
Techcon Systems, Inc.: *See—*
Gilbert, Charles H., 4,646,776, Cl. 137-226.000.
Teche, Andre: *See—*
Martel, Jacques; Tessier, Jean; and Teche, Andre, 4,658,085, Cl. 549-302.000.
Techmedica, Inc.: *See—*
Pratt, Clyde R.; Carignan, Roger G.; Raggio, Charles M.; and Woznick, Chuck P., 4,636,219, Cl. 623-22.000.
Techna Vision, Inc.: *See—*
Orlosky, Henry, 4,693,446, Cl. 249-53.00R.
Technal International S.A.: *See—*
Marcusse, Alain; and Patel, Max, 4,712,337, Cl. 52-90.000.
Technalytics, Inc.: *See—*
Storace, Anthony, 4,669,647, Cl. 227-19.000.
Storace, Anthony, 4,691,853, Cl. 227-19.000.
Techni Multidiscipline Services (Proprietary) Limited: *See—*
Goodwin, Peter J., 4,659,275, Cl. 414-137.000.
Technic Inc.: *See—*
Morrissey, Ronald J.; and Kroll, Harry, 4,673,472, Cl. 204-44.60.
Technica Entwicklungsgesellschaft mbH & Co. KG: *See—*
Kuckens, Alexander; and Kohl, Horst, 4,675,165, Cl. 422-261.00.
Kuckens, Alexander; and Kohl, Horst, 4,689,067, Cl. 71-3.000.
Technical Equipment Systems, Inc.: *See—*
Alvarez, Antonio J., 4,658,591, Cl. 60-670.000.
Technical Innovations, Inc.: *See—*
Vollenweider, Edward E., 4,634,024, Cl. 222-135.000.
Technical Manufacturing Corporation: *See—*
Heide, Ulf B., 4,645,171, Cl. 248-637.000.
Technical Oil Tools Corporation: *See—*
Brown, Gregory D.; Clark, Darrel E.; and Schuermann, Rolph W., 4,694,692, Cl. 73-155.000.
Brown, Gregory D., 4,708,018, Cl. 73-439.000.
Jobe, Tommy L., 4,691,384, Cl. 455-602.000.
Technical Products Co., Ltd.: *See—*
Saitoh, Takashi, 4,660,351, Cl. 53-417.000.
Technical Research Associates: *See—*
Barabino, William A., 4,644,177, Cl. 250-577.000.
Technical Research and Development Institute, Japan Defense Agency: *See—*
Niwa, Yoshiyuki; Kashiwagi, Masahiro; Yasue, Masahiro; Bando, Shunichi; Kakinuma, Asao; and Wakatsuki, Tadashi, 4,676,721, Cl. 416-134.00A.
Technicare Corporation: *See—*
Compton, Russell A.; Hinshaw, Waldo S.; and Kramer, David M., 4,636,728, Cl. 324-309.000.
Compton, Russell A.; Keller, John T.; McBride, Thomas R.; and Kramer, David M., 4,673,880, Cl. 324-309.000.
Dow, Julian; and Meyers, Paul F., 4,649,925, Cl. 128-660.000.
Flugan, David C., 4,649,348, Cl. 324-318.000.
Kormos, Donald W.; Yeung, Hong-Ning; and Dewhurst, Henry S., 4,661,775, Cl. 324-307.000.
Kramer, David M.; Yeung, Hong-Ning; and Compton, Russell A., 4,665,367, Cl. 324-309.000.
Kramer, David M.; Compton, Russell A.; Strenk, Lawrence M.; and Murdoch, James B., 4,695,800, Cl. 324-309.000.
Meyers, Paul F., 4,688,576, Cl. 128-660.000.
Perusek, Allan J.; and Jablonski, Ernest F., 4,651,007, Cl. 250-363.00S.
Yeung, Hong-Ning; Kao, Chiming; and Lent, Arnold B., 4,649,346, Cl. 324-309.000.
Technicatome Societe Technique pour l'Energie Atomique: *See—*
Augustin, Xavier, 4,671,667, Cl. 366-279.000.

Technicon Instruments Corporation: *See*—
Ahmad, Syed I.; and Hedaya, Eddie; 4,707,441, Cl. 435-7.000.
Cassaday, Michael M.; Castellani, Leon; and Saros, Stephen; 4,669,756, Cl. 285-24.000.
Cassaday, Michael M.; 4,678,641, Cl. 422-101.000.
Farrell, Gregory A.; 4,695,431, Cl. 422-81.000.
Fox, John P.; Hedaya, Eddie; and Lippman, Violet; 4,713,324, Cl. 435-4.000.
Gyori, Steven A.; 4,706,736, Cl. 165-30.000.
Siegel, Richard C.; and Marx, Christina S.; 4,650,751, Cl. 435-7.000.
Siegel, Richard C.; Marx, Christina S.; Hargitay, Bartholomew; and Wotherspoon, Neil; 4,713,350, Cl. 436-533.000.
Spadaro, Anthony M.; McLoughlin, Thomas J.; and Engler, Phillip V.; 4,693,912, Cl. 427-213.300.
Stark, Edward W.; 4,658,131, Cl. 250-228.000.
Uffenheimer, Kenneth F.; 4,683,212, Cl. 436-52.000.
Weiss, Charles B.; 4,699,768, Cl. 422-70.000.
Technika Beteiligungsgesellschaft mbH: *See*—
Dammann, Karl-Heinz; 4,662,832, Cl. 418-201.000.
Technion Research & Development Foundation Ltd.: *See*—
Cais, Michael; Shimoni, Moshe; and Baniel, Abraham; 4,645,747, Cl. 436-500.000.
Hasson, David; and Karmon, Mordechai; 4,679,662, Cl. 427-235.000.
Lavie, Ram; 4,661,133, Cl. 62-18.000.
Manor, Gedalyahu; 4,704,851, Cl. 56-328.0TS.
Yahalom, Joseph; and Zadok, Ori; 4,652,348, Cl. 204-40.000.
Technip Geoproduction: *See*—
Cousty, Jean Pierre; 4,678,372, Cl. 405-196.000.
Delamare, Guy R.; 4,665,855, Cl. 114-230.000.
Technique du Verre Tisse S.A.: *See*—
Foret, Regis; 4,657,795, Cl. 428-36.000.
Technisch Ontwikkelingsbureau van Elten B.V.: *See*—
van Elten, Gerrit J.; Hurkmans, Antonius; and de Vries, Hugo V.; 4,712,964, Cl. 414-281.000.
Technische Hogeschool Eindhoven: *See*—
Brinkgreve, Peter; and Koningsberger, Diederik C.; 4,637,041, Cl. 378-71.000.
Techniservice: *See*—
Schwartz, Nathan G.; 4,711,191, Cl. 112-410.000.
Technitrol, Inc.: *See*—
Cargill, N. Allen; 4,688,481, Cl. 101-233.000.
Cargill, N. Allen; and Malashkin, Michail; 4,691,910, Cl. 271-3.000.
Techno Diagnosis B.V.: *See*—
Untermarkt, Rombartus W.; 4,656,875, Cl. 73-862.350.
Techno Instruments Investments 1983 Ltd.: *See*—
Holtzman, Abraham M.; and Relis, Joseph; 4,657,632, Cl. 156-659.100.
Holtzman, Abraham M.; and Relis, Joseph; 4,715,894, Cl. 106-1.220.
Techno Opthalmics International, Inc.: *See*—
Swinger, Casimir; and Cassiday, Daniel; 4,660,556, Cl. 128-305.000.
TechnoARBED Deutschland GmbH: *See*—
Altmeyer, Werner; Jakobs, Ewald; and Scheer, Berthold; 4,666,349, Cl. 407-118.000.
Altmeyer, Werner; Jakobs, Ewald; and Meier, Friedrich; 4,710,078, Cl. 409-233.000.
Technographics Fitchburg Coated Products, Inc.: *See*—
Prawdzik, John; Maxim, Norman F.; Lane, William C.; and Antonio, Christos; 4,689,102, Cl. 156-235.000.
Technological Research Association of Highly Reliable Marine Propulsion Plant: *See*—
Nagata, Osamu; Kajima, Takashi; and Ozaki, Toshiharu; 4,688,138, Cl. 361-154.000.
Nagata, Osamu; Kajima, Takashi; and Ozaki, Toshihara; 4,688,139, Cl. 361-154.000.
Technology Dynamics, Inc.: *See*—
Saaski, Elric W.; and Hartl, James C.; 4,678,904, Cl. 250-227.000.
Technology for Energy Corporation: *See*—
Hunter, Brook T.; Rizzie, Joseph W.; and Ward, Marvin L.; 4,712,847, Cl. 439-155.000.
Technology Network International, Inc.: *See*—
Scott, Bentley N.; Porter, Vernon R.; and Shortes, Samuel R.; 4,678,437, Cl. 434-21.000.
Technology Un, Ltd.: *See*—
Waldorf, Lindsey E.; 4,688,394, Cl. 62-243.000.
Technology Unlimited, Inc.: *See*—
Geho, W. Blair; 4,704,394, Cl. 514-288.000.
Geho, W. Blair; Lau, John R.; and Jacob, Joseph; 4,705,804, Cl. 514-474.000.
Technomare S.p.A.: *See*—
Beghetto, Leonardo; and Padovan, Giovanni; 4,687,062, Cl. 166-366.000.
Technomarmi Maiera S.p.A.: *See*—
Marocco, Giuseppe; 4,640,850, Cl. 428-15.000.
Technomed Gmk: *See*—
Berentey, Gyorgy; Sarvary, Andras; Feczko, Jozsef; and Pasztor, Pal; 4,651,724, Cl. 128-92.0YP.
Technomed International: *See*—
Mestas, Jean-Louis; and Cathignol, Dominique; 4,702,248, Cl. 128-328.000.
Technos et Compagnie: *See*—
Bizard, Andre; 4,702,311, Cl. 165-162.000.
Technad Corporation: *See*—
Mirel, Arthur G.; 4,643,213, Cl. 137-10.000.
Techs Industrial Design Limited: *See*—
Tsang, Fan K.; Tsang, Fan W.; and Chan, Ying S.; 4,658,116, Cl. 219-370.000.
Techsearch Inc.: *See*—
Taylor, Robert V.; 4,653,113, Cl. 383-5.000.
Techserve Engineering Corp.: *See*—
Brett, Dennis A.; and Runshe, Clay R.; 4,693,786, Cl. 202-83.000.
Teckserve Limited: *See*—
Faul, Thomas L.; 4,662,775, Cl. 403-365.000.
Tecl, Bohuslav: *See*—
Busen, Dietmar; Schluter, Helmut; Weghmann, Arnold; Blumler, Norbert; and Tecl, Bohuslav; 4,708,756, Cl. 156-143.000.
Tecla Company, Inc.: *See*—
Clark, Richard N.; 4,637,081, Cl. 5-18.00R.
Tecle, Haile: *See*—
Bergmeier, Stephen C.; Downs, David A.; Moos, Walter H.; Moreland, David W.; and Tecle, Haile; 4,710,508, Cl. 514-357.000.
Downs, David A.; and Tecle, Haile; 4,640,925, Cl. 514-331.000.
Downs, David A.; and Tecle, Haile; 4,666,905, Cl. 514-222.000.
Jaen, Juan C.; Wise, Lawrence D.; Tecle, Haile; and Bergmeier, Stephen C.; 4,650,805, Cl. 514-326.000.
Tecma Laboratories, Inc.: *See*—
Trenzeluk, Theodore; 4,713,242, Cl. 424-145.000.
Tecmachine, Societe Anonyme: *See*—
Deux, Alain; Merant, Jean-Camille; Gibert, Francois; and Berger, Antoine; 4,707,973, Cl. 56-328.00R.
TECNO S.p.A. Mobili e forniture per arredamento: *See*—
Borsani, Fulgenzio; 4,650,248, Cl. 297-300.000.
Tecnol, Inc.: *See*—
Hubbard, Vance M.; and Brunson, Welton K.; 4,635,628, Cl. 128-201.170.
Hubbard, Vance M.; and Brunson, Welton K.; 4,673,084, Cl. 206-438.000.
Hubbard, Vance M.; Brunson, Welton K.; and Caldwell, Darrell S.; 4,688,572, Cl. 128-402.000.
Tecnoma: *See*—
Ballu, Patrick J. M.; 4,710,109, Cl. 417-454.000.
Tecnomare S.p.A.: *See*—
Sebastiani, Gaetano; Brandi, Roberto; Di Lena, Francesco; Vanore, Silvestro; and Carraro, Roberto; 4,695,193, Cl. 405-204.000.
Tecnopinz S.A.: *See*—
Sproccati, Osvaldo; and Tettamanti, Enrico; 4,699,388, Cl. 279-48.000.
Tecnor: *See*—
Poncelet, Andre; Getti, Hyacinthe; and Faugoux, Michel; 4,714,626, Cl. 427-49.000.
Tecnoteam S.N.C. di Tardito Dario e Cartella Pietro: *See*—
Cartella, Pietro; 4,655,717, Cl. 440-27.000.
Tecsyn Canada Limited: *See*—
Tomarin, Seymour A.; 4,637,942, Cl. 425-17.000.
Tecumseh Products Company: *See*—
Campen, Kenneth W.; 4,712,521, Cl. 123-149.00C.
Farr, James B.; 4,642,031, Cl. 417-223.000.
Farr, James B.; 4,654,551, Cl. 310-112.000.
Gannaway, Edwin L.; 4,639,198, Cl. 417-410.000.
Gannaway, Edwin L.; 4,640,669, Cl. 417-410.000.
Gannaway, Edwin L.; 4,694,660, Cl. 62-196.400.
Geringer, Miles S.; and Kaufman, Vernon R.; 4,691,590, Cl. 74-579.00E.
Guntly, Thomas G.; and Schultz, Curtis L.; 4,679,534, Cl. 123-187.50R.
Guntly, Thomas G.; 4,684,484, Cl. 261-35.000.
Kaufman, Vernon R.; 4,676,205, Cl. 123-195.00R.
Kaufman, Vernon R.; and Geringer, Miles S.; 4,682,571, Cl. 123-73.00A.
Kromich, Peter G.; 4,648,363, Cl. 123-196.00R.
Kromich, Peter G.; 4,662,328, Cl. 123-198.00C.
Kromich, Peter G.; 4,671,057, Cl. 60-272.000.
Morse, Robert L.; 4,651,540, Cl. 62-503.000.
Tedder, Daniel W., to Georgia Tech Research Corporation. Two cycle process for producing fuel-grade ethanol from dilute aqueous mixtures. 4,692,432, 9-8-87, Cl. 568-916.000.
Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr., to Ethyl Corporation. Trimer process. 4,663,138, 5-5-87, Cl. 423-300.000.
Tedder, Joseph B., Jr.: *See*—
Allcock, Harry R.; Stinnett, S. James; Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr.; 4,656,017, Cl. 423-300.000.
Chang, Suae-Chen; Tedder, Joseph B., Jr.; and Adams, J. Robert, Jr.; 4,656,246, Cl. 528-499.000.
Sulzer, Gerald M.; Tedder, Joseph B., Jr.; Adams, J. Robert, Jr.; and Juneau, Matthew K.; 4,656,018, Cl. 423-330.000.
Teder, Leonid O.; Org, Tit A.; Lauri, Vamo G.; and Aas, Ants J., to Proizvodstvennoe Obiedinenie "Norma". Safety belt buckle for vehicles. 4,637,102, 1-20-87, Cl. 24-642.000.
Teder, Rein S.: *See*—
Bonin, Wayne A.; McCumber, Roger D.; and Teder, Rein S.; 4,694,687, Cl. 73-116.000.
Tedeschi, Anthony: *See*—
Prunesti, James; Bell, William D.; Gannaway, Jane P.; O'Boyle, Dolores; and Tedeschi, Anthony; 4,701,964, Cl. 2-406.000.
Tedeschi, Bernadette: *See*—
Mahjour, Majid; Neshitt, Russell U., Jr.; Fawzi, Mahdi B.; and Tedeschi, Bernadette; 4,666,926, Cl. 514-345.000.
Tedeschi, Rinaldo R.: *See*—
Hmelovsky, Michael W.; and Tedeschi, Rinaldo R.; 4,707,791, Cl. 364-431.040.

Tedesco, Robert J., to Westinghouse Electric Corp. Molded case circuit breaker with an improved contoured cradle. 4,642,430, 2-10-87, Cl. 200-153.00G.
Tedesco, Robert J.; and Haggerty, David L., to Westinghouse Electric Corp. Molded case circuit breaker with a movable electrical contact positioned by a camming spring loaded clip. 4,642,431, 2-10-87, Cl. 200-153.00G.
Tedesco, Robert J., to Westinghouse Electric Corp. Molded case circuit breaker with a movable lower electrical contact positioned by a torsion spring. 4,644,120, 2-17-87, Cl. 200-153.00G.
Tedesco, Robert J.; and Changle, Joseph F., to Westinghouse Electric Corp. Molded case circuit breaker with an improved operating mechanism having a pivot-transfer trip-free linkage. 4,650,944, 3-17-87, Cl. 200-153.00G.
Tedor, John B.: *See*—
Gupta, Alankar; McGrady, Michael B.; and Tedor, John B., 4,651,728, Cl. 128-201.280.
Tedrow, Prabha K.: *See*—
Reif, L. Rafael; Tedrow, Prabha K.; and Ilderem, Vida, 4,668,530, Cl. 427-55.000.
Tee, David D., to J. I. Case Company. Engine interlock control system for a material handling implement. 4,699,561, 10-13-87, Cl. 414-699.000.
Tee, Sim Ah, to Sun Industrial Coatings Private Ltd. Apparatus for holding electrial or electronic components during the application of solder. 4,677,937, 7-7-87, Cl. 118-500.000.
Teed, Richard K., to Professional Medical Products, Inc. Disposable absorbent garment construction. 4,645,501, 2-24-87, Cl. 604-390.000.
Teegen, Walter: *See*—
Linder, Ernst; Rembold, Helmut; Straubel, Max; and Teegen, Walter, 4,690,373, Cl. 251-129.020.
Rembold, Helmut; and Teegen, Walter, 4,646,976, Cl. 239-585.000.
Rembold, Helmut; Ruoff, Manfred; and Teegen, Walter, 4,674,451, Cl. 123-90.160.
Teener, Michael D.: *See*—
Nelson, Gary A.; Godding, Patrick N.; Schumaser, Richard E.; Walter, Keith D.; Marrone, Edward S.; Gates, Stillman E.; Rigsbee, Everett O., III; and Teener, Michael D., 4,679,191, Cl. 370-84.000.
Teepak, Inc.: *See*—
Bridgeford, Douglas J., 4,713,135, Cl. 156-218.000.
Pritikin, William B., deceased; Smith, Burl L.; and Bridgeford, Douglas J., 4,664,861, Cl. 264-173.000.
Stanley, Thomas R.; and Zeleznik, Mark R., 4,709,450, Cl. 17-49.000.
Story, Alfred D., 4,648,428, Cl. 138-118.100.
Towne, Clinton G.; and Stanley, Thomas R., 4,635,316, Cl. 17-1.00R.
Teepak Produktie N.V.: *See*—
Kollross, Gunter, 4,642,848, Cl. 17-49.000.
Kollross, Gunter, 4,649,601, Cl. 17-49.000.
Kollross, Gunter, 4,660,754, Cl. 17-33.000.
Teeple, Edward. Surgical eye mask. 4,635,625, 1-13-87, Cl. 128-163.000.
Teeple, Edward. Anti-air embolism and antiblood loss device for CVP catheter. 4,661,096, 4-28-87, Cl. 604-122.000.
Teeple, Edward. Surgical shield. 4,715,366, 12-29-87, Cl. 128-132.00D.
Teerman, Richard F.: *See*—
Cotter, David H.; Teerman, Richard F.; and Timmer, Robert C., 4,684,067, Cl. 239-533.300.
Teeters, Dale C.: *See*—
Gurgiolo, Arthur E.; Winquist, Marvin E.; Knobel, Thomas M.; and Teeters, Dale C., 4,643,953, Cl. 428-520.000.
Gurgiolo, Arthur E.; Winquist, Marvin E.; Knobel, Thomas M.; and Teeters, Dale C., 4,654,273, Cl. 428-522.000.
Teets, Bradley, to Iscar Ltd. Center height gage for cut-off tools. 4,682,420, 7-28-87, Cl. 33-626.000.
Teetz, Volker: *See*—
Geiger, Rolf; Teetz, Volker; and Langner, Dietrich, 4,668,796, Cl. 548-452.000.
Heber, Helmut; Eberle, Reinhard; and Teetz, Volker, 4,665,016, Cl. 435-23.000.
Obermeier, Rainer; Teetz, Volker; and Ludwig, Jurgen, 4,677,192, Cl. 530-305.000.
Urbach, Hansjorg; Henning, Rainer; Teetz, Volker; Wissman, Hans; and Becker, Reinhard, 4,668,797, Cl. 548-452.000.
Urbach, Hansjorg; Henning, Rainer; Teetz, Volker; and Becker, Reinhard, 4,714,708, Cl. 514-412.000.
Tega, Ezio; Piccini, Fabrizio; Mazzini, Marco; and Magi, Raffaello, to Metelmeccanica Gori & Zucchi M.G.Z. S.p.A. Apparatus for handling and assembling axial elettronic components on printed circuit cards. 4,711,015, 12-8-87, Cl. 29-566.200.
Tegal Corporation: *See*—
Bowker, Christopher D., 4,687,543, Cl. 156-643.000.
Drage, David J., 4,697,089, Cl. 250-561.000.
Uchimura, David H., 4,678,540, Cl. 156-643.000.
Tegart, Harold G. Golf course. 4,696,474, 9-29-87, Cl. 273-176.00A.
Tegethoff, Alfred: *See*—
Pircher, Hans; Bentz, Werner; and Tegethoff, Alfred, 4,645,720, Cl. 428-683.000.
Tegg, Duane T.: *See*—
Juaire, Phillip R.; and Tegg, Duane T., 4,670,918, Cl. 4-463.000.
Tegge, Bruce R.; Weary, Frank G.; and Sakaguchi, Yasuo, to Exxon Chemical Patents Inc. Removal of organic halides from hydrocarbon solvents. 4,713,413, 12-15-87, Cl. 525-54.000.
Tegman, Ragnar: *See*—
Burstrom, Martin; and Tegman, Ragnar, 4,642,204, Cl. 252-633.000.
Tegtmeier, Dietrich, to Daimler-Benz Aktiengesellschaft. Injection system of an internal combustion engine. 4,671,234, 6-9-87, Cl. 123-432.000.
Tegtmeier, Uwe: *See*—
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Tehon, Stephen W., to General Electric Company. Arrangement for ultrasonic temperature measurement using a resonant sensor. 4,650,346, 3-17-87, Cl. 374-117.000.
Tehon, Stephen W., to General Electric Company. Arrangement for remote ultrasonic temperature measurement. 4,676,663, 6-30-87, Cl. 374-119.000.
Tehranian, Michael M.: *See*—
Goodrich, Gerald O.; Tehranian, Michael M.; and White, Donald A., 4,701,841, Cl. 364-200.000.
Tei, Sadahiro, to Fuji Xerox Co. Ltd. Method for forming large area amorphous semiconductor layer and contact type image sensor. 4,660,277, 4-28-87, Cl. 29-572.000.
Teich, Christian M., to Deere & Company. Draft link sway block. 4,640,522, 2-3-87, Cl. 280-460.00A.
Teich, Wesley W.: *See*—
Clawson, Lawrence G.; and Teich, Wesley W., 4,669,198, Cl. 34-82.000.
Teichman, Betty L.: *See*—
Donawick, William J.; and Teichman, Betty L., 4,699,612, Cl. 604-80.000.
Teichmann, Friedrich; and Wenderoth, Karl, to Triumph-Adler A.G. Ribbon feed increment change mechanism and coded ribbon cassette to establish feed increment. 4,662,766, 5-5-87, Cl. 400-208.000.
Teichmann, Paul: *See*—
Langen, Manfred; Temburg, Konrad; and Teichmann, Paul, 4,683,619, Cl. 19-159.00A.
Leifeld, Ferdinand; and Teichmann, Paul, 4,707,887, Cl. 19-0.200.
Teichmann, Robert J. Nickel particle plating system. 4,711,814, 12-8-87, Cl. 428-403.000.
Teichmer, Daniel G.: *See*—
Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., 4,698,460, Cl. 178-19.000.
Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., 4,707,845, Cl. 178-19.000.
Murdock, Bruce; and Teichmer, Daniel G., 4,680,429, Cl. 178-19.000.
Teichner, Robert W.: *See*—
Merrick, Stephen P.; and Teichner, Robert W., 4,694,183, Cl. 250-551.000.
Teijin Chemicals, Ltd.: *See*—
Miyauchi, Masayoshi, 4,670,479, Cl. 524-154.000.
Takamatsu, Masayoshi; Hashimoto, Kouji; Manabe, Akiyoshi; and Ichihana, Hideyuki, 4,678,845, Cl. 525-462.000.
Teijin Limited. *See*—
Azuma, Shizuo; Hiramatsu, Toshiyuki; Nakagawa, Koji; and Ichikawa, Yataro, 4,685,952, Cl. 71-86.000.
Chiba, Kiyoshi; Ino, Hiromitsu; and Tokumitsu, Kazuto, 4,707,398, Cl. 148-304.000.
Gimaga, Akihiro; Kuba, Hiroshi; Sakuma, Shin; Kitagawa, Hiroshi; Yamada, Akira; and Suzuki, Yoji, 4,687,738, Cl. 435-68.000.
Hakoyama, Souchi; Mori, Shigetatu; Takebe, Yoshiyuki; and Imaoka, Kanya, 4,638,624, Cl. 57-208.000.
Hazato, Atsuo; Sugiura, Satsohi; Kurozumi, Seizi; and Noyori, Ryoji, 4,711,895, Cl. 514-530.000.
Ichikawa, Yataro; Yoshisato, Eishin; Harada, Toshiaki; Imai, Hiroshi; and Suzuki, Yoji, 4,668,782, Cl. 540-222.000.
Imamura, Tosuke, 4,710,423, Cl. 428-272.000.
Kadokura, Sadao; Honjo, Kazuhiko; Tomie, Takashi; and Nao, Masahiko, 4,666,788, Cl. 428-611.000.
Katoh, Hideo; and Hasegawa, Kinji, 4,670,319, Cl. 428-141.000.
Kobayashi, Shigenobu; Takabayashi, Fumiki; and Yamada, Setsuo, 4,666,764, Cl. 428-254.000.
Kumakawa, Shiro; and Yamamoto, Kazuyuki, 4,690,866, Cl. 428-364.000.
Makino, Shoji; Matsui, Michikage; and Hiratsuka, Shozaburo, 4,670,343, Cl. 428-395.000.
Masuho, Yasuhiko; Hara, Takeshi; and Noguchi, Teruhisa, 4,638,049, Cl. 530-388.000.
Matsubayashi, Tooru; and Yamashiro, Seiichi, 4,659,534, Cl. 264-566.000.
Matsui, Hideo; Fujie, Hiroshi; and Noma, Takashi, 4,716,215, Cl. 528-348.000.
Murayama, Sadamitsu; and Tanaka, Makoto, 4,680,221, Cl. 428-246.000.
Nishimura, Kunio; and Hirakawa, Tadashi, 4,710,432, Cl. 428-542.800.
Okamiwa, Hiroshi; Nakatani, Kenji; and Sato, Tetsuo, 4,697,041, Cl. 136-244.000.
Sasaki, Yoshiyuki; and Kasaoka, Katsuyuki, 4,684,566, Cl. 428-224.000.
Sasaki, Yoshiyuki; and Kasaoka, Katsuyuki, 4,698,260, Cl. 428-399.000.
Sugiura, Satoshi; Tanaka, Toshio; and Kurozumi, Seizi, 4,689,420, Cl. 560-121.000.
Suzuki, Yoshiki; Ikura, Hiroshi; Yamashita, Gentaro; and Nagai, Tsuneji, 4,715,369, Cl. 128-156.000.
Takahashi, Shigeru; Tanaka, Makoto; and Tanaka, Kunio, 4,656,080, Cl. 428-215.000.
Tanaka, Toshio; Hazato, Atsuo; and Kurozumi, Seizi, 4,649,156, Cl. 514-530.000.

Yamada, Hironori; Sayama, Nobuo; and Kuno, Masashi, 4,663,423, Cl. 528-179.000.
Yamada, Takeyoshi, 4,644,046, Cl. 528-28.000.
Yasuoka, Toshio, 4,683,158, Cl. 428-95.000.
Yatabe, Toshiaki; Nishihara, Toshio; and Suzuki, Nobuo, 4,639,069, Cl. 350-1.700.
Teijin Petrochemical Industries, Ltd.: *See*—
Hirose, Isao; Amemiya, Tamio; and Sakai, Tokuji, 4,709,088, Cl. 562-414.000.
Hirose, Isao, 4,716,245, Cl. 562-416.000.
Onodera, Tamio; Namatame, Akio; Sato, Kimihiko; and Sumitani, Koji, 4,700,012, Cl. 585-481.000.
Sumitani, Koji; Sakai, Tokuji; Yamasaki, Yasuo; and Onodera, Tamio, 4,695,667, Cl. 585-481.000.
Teijin Seiki Co., Ltd.: *See*—
Matsumoto, Kazuyuki; Hashimoto, Mashataka; and Iwata, Michiyoshi, 4,690,010, Cl. 74-469.000.
Miyake, Yuzuru; Nohara, Isao; Sugioka, Takami; Onishi, Susumu; and Ueno, Toshiyuki, 4,715,548, Cl. 242-18.00R.
Sugioka, Takami, 4,657,205, Cl. 242-157.100.
Sugioka, Takami, 4,685,629, Cl. 242-18.00R.
Yamakawa, Tsuyoshi, 4,682,135, Cl. 335-256.000.
Teikoku Chemical Industry Co., Ltd.: *See*—
Taguchi, Masaaki; and Suenaga, Hitoshi, 4,663,842, Cl. 252-299.670.
Taguchi, Masaaki; and Suenaga, Hitoshi, 4,710,585, Cl. 560-64.000.
Teikoku Hormone Mfg. Co., Ltd.: *See*—
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,673,692, Cl. 514-583.000.
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,695,581, Cl. 514-415.000.
Teikoku Tsushin Kogyo Co., Ltd.: *See*—
Akimoto, Takashi; Kai, Akio; Kobayashi, Masao; and Itoh, Haruo, 4,658,101, Cl. 200-16.00R.
Teisan Kabushiki Kaisha: *See*—
Yoshida, Eiichi; Aoki, Nobuyoshi; Suzuki, Toshimitsu; Hongo, Akira; Ueda, Hideki; and Nakata, Issei, 4,703,609, Cl. 53-431.000.
Teissier, Alain F.: *See*—
Kervistin, Robert; Lefebvre, Philippe J.; and Teissier, Alain F., 4,662,821, Cl. 415-170.00R.
Teissier, Claude: *See*—
Letournel, Michel; Helleboid, Jean-Marie; and Teissier, Claude, 4,680,496, Cl. 310-308.000.
Tetzel, Robin L.: *See*—
Bogardus, David W.; Tetzel, Robin L.; and Chapman, David D., 4,701,696, Cl. 324-73.00R.
Texeda, Alvaro R.: Reversible electrolytic system for softening and dealkalizing water, 4,671,863, 6-9-87, Cl. 204-266.000.
Tejima, Masahito; and Nojima, Yoshimitsu, to Kabushiki Kaisha Tsuchiya Seisakusho: Heat exchanger with temperature responsive bypass, 4,669,532, 6-2-87, Cl. 165-36.000.
Tejima, Shunichiro, to NEC Corporation: High-speed burst signal monitoring device, 4,635,247, 1-6-87, Cl. 370-13.000.
Tejima, Toru: *See*—
Nakamura, Kouchi; Hori, Kimihiko; Hattori, Michihiro; Tejima, Toru; Imokawa, Genji; and Takashi, Naotake, 4,704,473, Cl. 562-463.000.
Nakamura, Kouchi; Hattori, Michihiro; Tamura, Tadashi; Tejima, Toru; Takashi, Naotake; Imokawa, Genji; and Hotta, Hajime, 4,710,373, Cl. 424-59.000.
Tekken Construction Co., Ltd.: *See*—
Odashima, Takashi, 4,648,462, Cl. 169-61.000.
Odashima, Takashi, 4,671,362, Cl. 169-61.000.
Tekma Kinomat S.p.A.: *See*—
Camardella, Giuseppe, 4,662,573, Cl. 242-7.110.
Tekna Oy: *See*—
Uimonen, Matti, 4,711,038, Cl. 34-25.000.
Tekna Recherche & Developpement Inc.: *See*—
Tremblay, Paul; and Tzabanakis, Georges, 4,635,989, Cl. 294-102.100.
Tremblay, Paul; and Tzabanakis, Georges, 4,691,988, Cl. 350-96.230.
Tekniflex, Inc.: *See*—
Payne, George C., 4,677,384, Cl. 324-329.000.
Tekno-Detaljer Lindstrom & Waerme AB: *See*—
Larsson, Jan S., 4,701,589, Cl. 219-50.000.
Teknologisk Institut: *See*—
Kromer, Ole, 4,704,251, Cl. 419-17.000.
Teknowledge, Inc.: *See*—
Erman, Lee D.; Clancey, William J.; London, Philip E.; Scott, A. Carlisle; Bennett, James S.; and Lark, Jay S., 4,658,370, Cl. 364-513.000.
Hardy, Steven; and Joyce, Robert H., 4,648,044, Cl. 364-513.000.
Scott, A. Carlisle; Clayton, Jan E.; and Garnier, Jacques, 4,713,775, Cl. 364-513.000.
Tekron Licensing B.V.: *See*—
Evans, Harold R., 4,645,201, Cl. 272-97.000.
Tektite Corporation: *See*—
Ryan, Harold; Miller, Scott G.; and Schafer, John B., 4,689,551, Cl. 324-51.000.
Tektronix, Inc.: *See*—
Addis, John L., 4,647,889, Cl. 335-253.000.
Addis, John L., 4,667,146, Cl. 323-316.000.
Addis, John L.; and Morgan, David W., 4,704,558, Cl. 315-10.000.
Addis, John L., 4,713,627, Cl. 330-306.000.
Addis, John L., 4,714,896, Cl. 330-261.000.
Agoston, Agoston, 4,647,795, Cl. 307-352.000.
Agoston, Agoston, 4,659,946, Cl. 307-353.000.
Agoston, Agoston, 4,678,345, Cl. 368-119.000.
Agoston, Agoston; and Sparkes, Robert G., 4,680,780, Cl. 375-120.000.
Agoston, Agoston, 4,701,714, Cl. 328-56.000.
Ainsworth, Walter W.; and Metz, Arthur J., 4,705,961, Cl. 307-228.000.
Almy, Thomas A., 4,670,858, Cl. 365-49.000.
Baker, Daniel G., 4,677,395, Cl. 331-25.000.
Baker, Daniel G.; and Ainsworth, Kenneth M., 4,680,620, Cl. 358-10.000.
Baker, Daniel G.; and Feisel, Magaret A., 4,680,621, Cl. 358-19.000.
Barrett, Ronald A., 4,647,848, Cl. 324-95.000.
Barrett, Ronald A., 4,695,806, Cl. 330-254.000.
Bates, Roger D.; and Miller, Merlin R., 4,647,912, Cl. 340-825.500.
Baar, Bruce K.; and Meigs, Gordon W., 4,698,559, Cl. 315-128.000.
Baur, Bruce K., 4,706,154, Cl. 361-56.000.
Beeck, Carlos L., 4,642,592, Cl. 333-246.000.
Berg, William E., 4,658,330, Cl. 361-386.000.
Berg, William E., 4,658,331, Cl. 361-387.000.
Bergstedt, Gar A., 4,694,286, Cl. 340-703.000.
Bingold, Steven R.; Kleck, Jeffrey A.; and Dobyns, Kenneth P., 4,647,897, Cl. 338-172.000.
Blair, Bruce W., 4,647,862, Cl. 328-109.000.
Blair, Bruce W., 4,704,691, Cl. 364-487.000.
Boatwright, John P., 4,669,098, Cl. 377-28.000.
Bogardus, David W.; Tetzel, Robin L.; and Chapman, David D., 4,701,696, Cl. 324-73.00R.
Bos, Philip J., 4,635,051, Cl. 340-757.000.
Bos, Philip J.; and Prince, Dennis, 4,652,087, Cl. 350-332.000.
Bosco, Brian; Beenen, Gerhard J.; and Murdock, Bruce, 4,685,155, Cl. 29-157.00C.
Branson, Christopher W.; and Sullivan, Steven K., 4,712,058, Cl. 324-23.00R.
Breya, Edward F., 4,696,105, Cl. 29-840.000.
Bristol, L. Rodney, 4,686,523, Cl. 340-709.000.
Bristol, Lloyd R., 4,667,135, Cl. 315-371.000.
Buzak, Thomas S., 4,670,744, Cl. 340-716.000.
Buzak, Thomas S., 4,674,841, Cl. 350-337.000.
Caspell, George J., 4,686,489, Cl. 331-57.000.
Cleary, Edward J., Jr.; and Coleman, Mike R., 4,686,390, Cl. 307-351.000.
Compton, Peter M., 4,680,557, Cl. 333-1.000.
Corrie, Brian L.; Benn, Pauline; and McElevey, Michael J., 4,677,737, Cl. 29-571.000.
Crop, Roland E., 4,713,771, Cl. 364-487.000.
Cunningham, Howard G., Jr., 4,673,931, Cl. 340-722.000.
Davis, Brent M.; Beckett, Frederick J.; and Zandonatti, Raymond A., 4,668,928, Cl. 335-79.000.
Diller, Calvin D.; and Burke, Michael J., 4,684,881, Cl. 323-354.000.
Dodge, Warren; and Wirfs-Brock, Rebecca, 4,635,049, Cl. 340-721.000.
Dodge, Warren L., 4,660,154, Cl. 364-518.000.
Early, Stephen R.; and Grogan, Daniel, 4,687,552, Cl. 204-15.000.
Enochs, R. Scott, 4,702,547, Cl. 350-96.200.
Frisch, Arnold M.; Hollister, Allen L.; and Hutchinson, Larry L., 4,707,834, Cl. 371-20.000.
Fundak, Davorin; and Adams, Larry R., 4,689,674, Cl. 358-139.000.
Gjesdal, Harvey J., 4,696,089, Cl. 29-451.000.
Golladay, Harvey L., 4,634,949, Cl. 318-696.000.
Grellmann, H. Erwin; Jones, Keith E.; Laakso, Carl W.; and Wright, John A., 4,657,322, Cl. 339-17.00M.
Grellmann, H. Erwin; and Roland, Leonard A., 4,686,492, Cl. 333-33.000.
Grellmann, Heinz E.; and Roland, Leonard A., 4,695,811, Cl. 333-105.000.
Gumm, Linley F., 4,688,253, Cl. 381-7.000.
Hayes, Raymond; and Peter, Joseph R., 4,648,072, Cl. 365-45.000.
Hoffman, Eldon P., 4,647,770, Cl. 250-231.05E.
Hollister, Allen L., 4,646,030, Cl. 331-1.00A.
Holte, Timothy M.; and Jalovec, Lee J., 4,704,036, Cl. 368-120.000.
Horn, John J.; and Baker, Daniel G., 4,648,113, Cl. 381-1.000.
Houda, Pavel; Springer, Richard A.; and Belshee, Rodney W., 4,660,029, Cl. 340-744.000.
Hung, Angelo C. J.; and Wang, Francis C., 4,716,564, Cl. 371-27.000.
Husher, Frederick K.; Mickanin, Wesley C.; and Brashler, Mike G., 4,650,277, Cl. 350-96.200.
Jenness, Timothy A., 4,673,986, Cl. 358-242.000.
Jones, Keith E., 4,668,920, Cl. 330-286.000.
JongeVos, Hendrik, 4,672,532, Cl. 364-200.000.
Kmetim, David T.; and Rosener, Harvey J., 4,646,078, Cl. 340-750.000.
Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., 4,698,460, Cl. 178-19.000.
Krein, Philip T.; Meadows, Robert D.; Murdock, Bruce; and Teichmer, Daniel G., 4,707,845, Cl. 178-19.000.
Laakso, Carl W.; Reagan, John J.; and Beckman, Robert L., 4,650,545, Cl. 156-655.000.
Leber, David C.; and Falk, Timothy L., 4,694,572, Cl. 29-840.000.
Lockwood, Larry R., 4,654,600, Cl. 328-151.000.
Mallory, Robert L.; Schamel, Alfred H.; and Sekel, Stephen M., 4,688,148, Cl. 361-395.000.

Mallory, Robert J.; Schamel, Alfred H.; and Sekel, Stephen M., 4,694,380, Cl. 361-424.000.
Matrey, Earl G., 4,694,324, Cl. 358-10.000.
McManus, Paul A.; and Hoffman, Gregory L., 4,670,780, Cl. 358-80.000.
Meadows, Robert D.; Krein, Philip T.; and Murdock, Bruce, 4,698,461, Cl. 178-19.000.
Meigs, Gordon W., 4,670,692, Cl. 315-408.000.
Metz, Arthur J., 4,659,945, Cl. 307-353.000.
Metz, Arthur J.; and Lamb, James S., 4,663,610, Cl. 340-347.0DA.
Miller, Lawrence J.; and Chitwood, Donald F., 4,677,340, Cl. 315-10.000.
Mitch, John H., 4,677,290, Cl. 250-227.000.
Morland, Mark R.; Cole, Paul A.; Cousins, Ivan J.; and Zandonatti, Raymond A., 4,708,661, Cl. 439-77.000.
Murdock, Bruce; and Teichner, Daniel G., 4,680,429, Cl. 178-19.000.
Nelson, Theodore G.; and Diller, Calvin D., 4,691,174, Cl. 330-260.000.
Nicholas, Dan H., 4,677,481, Cl. 358-139.000.
Odenthal, Conrad J.; Askew, Dennis D.; and Jagua, Evan W., 4,685,340, Cl. 313-449.000.
Odenthal, Conrad J.; and McKibben, Barry A., 4,672,276, Cl. 315-382.000.
Palmquist, Steven R.; Takita, Kentaro; and Hasegawa, Kazumi, 4,646,297, Cl. 371-1.000.
Payne, David G., 4,716,500, Cl. 361-398.000.
Penney, Bruce J., 4,638,255, Cl. 329-36.000.
Penney, Bruce J.; and Taylor, Stewart S., 4,701,694, Cl. 323-317.000.
Penney, Bruce J., 4,707,727, Cl. 358-10.000.
Pepper, Steven H., 4,673,824, Cl. 307-64.000.
Pepper, Steven H., 4,677,536, Cl. 363-89.000.
Pepper, Steven H., 4,703,410, Cl. 363-56.000.
Pepper, Steven H., 4,713,607, Cl. 324-73.0PC.
Petrick, Bruce E.; and Wingfield, Perry E., 4,646,355, Cl. 382-54.000.
Petrick, Bruce E., 4,648,026, Cl. 364-174.000.
Pettet, Mark E.; and Hoeren, Gerd H., 4,694,420, Cl. 364-900.000.
Pollock, Ira G., 4,641,048, Cl. 307-591.000.
Press, Richard B.; and Dalrymple, John C., 4,672,369, Cl. 340-728.000.
Quinn, Patrick A., 4,692,712, Cl. 330-261.000.
Roland, Leonard A.; Lockwood, Larry R.; and Greffmann, H. Erwin, 4,670,723, Cl. 333-81.00A.
Saxe, Charles L., 4,647,922, Cl. 340-721.000.
Saxe, Charles L., 4,704,680, Cl. 364-200.000.
Shank, Gordon W.; Bristol, Lloyd R.; Eby, David H.; and Klock, Jeffrey A., 4,644,337, Cl. 340-709.000.
Shank, Gordon W.; and Bristol, Lloyd R., 4,647,915, Cl. 340-709.000.
Shank, Gordon W.; and Eason, Earl P., 4,716,345, Cl. 315-392.000.
Sherbeck, Terry G., 4,703,316, Cl. 340-706.000.
Smith, Kenneth R., 4,647,959, Cl. 357-74.000.
Steinhart, Jonathan E., 4,680,729, Cl. 364-900.000.
Stempfle, Julius E., 4,704,094, Cl. 445-30.000.
Straayer, David H.; Franz, Patrick J.; and Lynch, Eugene F., 4,680,577, Cl. 340-711.000.
Stroberger, Douglas J., 4,700,087, Cl. 307-475.000.
Sullivan, Steven K.; and Branson, Christopher W., 4,707,620, Cl. 307-270.000.
Sutton, Steven R.; and Hoeren, Gerd H., 4,677,620, Cl. 371-27.000.
Theus, John G., 4,691,121, Cl. 307-269.000.
Thomas, Wayne D., 4,642,744, Cl. 363-21.000.
Thong, Tran, 4,635,094, Cl. 358-10.000.
Thong, Tran, 4,635,098, Cl. 358-14.000.
Thong, Tran; and Balakrishnan, Shiv K., 4,654,634, Cl. 340-347.00R.
Thong, Tran, 4,672,306, Cl. 324-72.500.
Tierney, Lanne J., 4,682,304, Cl. 364-900.000.
Traa, Einar O., 4,712,087, Cl. 340-347.0CC.
Traa, Einar O., 4,714,872, Cl. 323-314.000.
Unger, Peter J.; and Mutton, Jon C., 4,694,379, Cl. 367-419.000.
Van Nice, H. Lee; Bostwick, Myron A., Jr.; and Kongsbie, Keith F., 4,713,520, Cl. 219-121.0LC.
Veenendaal, Cornelis T., 4,673,839, Cl. 310-338.000.
Wimmer, Guenther W.; and Krenthow, David B., 4,662,622, Cl. 271-96.000.
Wingfield, Perry E.; and Petrick, Bruce E., 4,648,119, Cl. 382-27.000.
Woo, James, 4,703,285, Cl. 330-260.000.
Wood, Brian J., 4,700,275, Cl. 361-393.000.
Zimmerman, Matt J., 4,683,415, Cl. 323-282.000.

Tel Aviv University. *See*—
Keydar, Iafa, 4,707,438, Cl. 435-5.000.

Telang, Anil M., to Becton, Dickinson and Company. Chest drainage apparatus with adjustable suction control, 4,650,476, 3-17-87, Cl. 604-319.000.

Telautograph Corporation. *See*—
Spiro, Jan L., 4,675,298, Cl. 340-827.000.

Telcor Inc. *See*—
Gallo, Bruce M.; Hannon, Charles; and Acgustin, Kurt, 4,699,591, Cl. 439-21.000.

Telcor, Inc. *See*—
Gallo, Bruce M.; Hannon, Charles; and Augustin, Kurt, 4,699,592, Cl. 439-27.000.

Teldec Schallplatten GmbH. *See*—
Knothe, Herbert; and Roschmann, Klaus, 4,640,745, Cl. 204-3.00.

Teldix GmbH. *See*—
Muller, Paul, 4,643,574, Cl. 356-350.000.
Piwelek, Bernd-Christian, 4,680,715, Cl. 364-449.000.

Telebit Corporation. *See*—
Hughes-Hartogs, Dirk, 4,679,227, Cl. 379-98.000.

Telecerman, Alberto, to Iwo Cilicia S.A.C.I.F.I.A. Spray shoe, 4,663,865, 5-12-87, Cl. 36-114.000.

Telechron, Inc. *See*—
Wingler, William C.; and Pompeono, Edward V., 4,695,883, Cl. 200.38.00R.

Teleco Oilfield Services Inc.. *See*—
Cobern, Martin E., 4,647,853, Cl. 324-166.000.
Grosso, Donald S.; and Park, Brian V., 4,676,374, Cl. 439-271.00.
Stone, Frederick A.; and Matos, Robert J., 4,674,771, Cl. 285-48.000.

Telecommunications Radioelectriques et Telephoniques TRT. *See*—
Barazeche, Bahman; Alexis, Roger P. J.; and Gonthier, Eric R., 4,645,884, Cl. 379-406.000.
Houriton, Jean-Jacques, 4,686,330, Cl. 379-269.000.
Lassaux, Jean; and Clement, Henry, 4,649,335, Cl. 324-52.00.
Lassaux, Jean; and Dagorn, Christian, 4,675,230, Cl. 379-413.00.
Loy, Fernand R., 4,674,826, Cl. 350-6.800.
Loy, Fernand R., 4,687,933, Cl. 250-334.000.
Riffod, Michel; and Tomasi, Jean-Pierre, 4,661,818, Cl. 342-172.000.

Telecomunicacoes Brasileiras S/A – Telebras. *See*—
Ghosh, Subir; and Jornor, Aluizio P., 4,680,758, Cl. 333-21.00R.

Teleconference Systems, Inc.. *See*—
Cotton, Robert V.; and Klodnicki, Edward J., 4,668,08, Cl. 358-257.000.

Teleconferencing Systems International Inc.. *See*—
Demzer, Gerald J., 4,669,108, Cl. 379-61.000.

Telecredit, Inc.. *See*—
Norwich, Daniel, 4,715,061, Cl. 379-91.000.

Telectronics N.V.. *See*—
Breyer, Branko; and Cikes, Ivo, 4,697,593, Cl. 128-690.000.
Breyer, Branko; Cikes, Ivo; and Fitzek-Petric, Bozidar, 4,708,61, Cl. 128-642.000.
Hamilton, John R.; and Whigham, Robert H., 4,708,144, Cl. 128-419.0PG.
Harris, Donald L., 4,715,380, Cl. 128-419.00P.
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Carlson, Melvin C.; and Dean, Raymond H., 4,694,989, Cl. 236-49.000.
Dean, Raymond H., 4,634,047, Cl. 236-49.000.
Hobbs, Michael L., 4,659,236, Cl. 374-208.000.
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Tenaglia, Richard D.: *See*—
Santangelo, Joseph G.; Weber, James J.; Sinclair, Richard G.; and Tenaglia, Richard D., 4,633,929, Cl. 164-34.000.
Ten Angel, Salvador. Folding roof rack for cars. 4,641,769, 2-10-87, Cl. 224-314.000.
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Ten Berge, Eduardus F. A., to AMP Incorporated. Optical fiber termination method, terminal splice and connector therefor. 4,669,820, 6-2-87, Cl. 350-96.200.
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Viegas, Steven F.; Tencer, Allan F.; Woodard, Peggy; and Gaynor, Sue, 4,662,364, Cl. 128-87.00R.
Tenconi, Riccardo, to Mec-Mor S.p.A. Device for the passing of the stitch from a needle for the forming of plain knitting to a needle for the forming of purl knitting and vice versa, in a knitting machine and the like. 4,646,542, 3-3-87, Cl. 66-24.000.
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Tendapak Holdings Pty. Limited: *See*—
Gibson, Royce G., 4,689,856, Cl. 17-32.000.
Tendex Kjennservice A/S: *See*—
Andreasson, Eva M.; Egeli, Finn; Holmberg, Krister A.; Nystrom, Borje; Stridh, Kjell G.; and Osterberg, Eva M., 4,650,000, Cl. 166-307.000.
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Tenenbaum, David M. Noise elimination system for pictures and the like. 4,691,343, 9-1-87, Cl. 379-100.000.
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Teng, Albert Y., to AT&T Bell Laboratories. File transfer scheduling arrangement. 4,642,758, 2-10-87, Cl. 364-200.000.
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Teng, Clarence W.; and Haken, Roger A., to Texas Instruments Incorporated. Integrated circuit fabrication process. 4,656,732, 4-14-87, Cl. 29-591.000.
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Teng, Ker-Wen; Nguyen, Bich-Yen; and Parrillo, Louis C., to Motorola, Inc. Integrated circuit trench cell. 4,686,552, 8-11-87, Cl. 357-23.600.
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Teng, Peter Y., to Wang Laboratories, Inc. Task control means for a multi-tasking data processing system. 4,658,351, 4-14-87, Cl. 364-200.000.
Teng, Yu-Ling; McCoy, Charles; DeFalco, Francis; and Mayernik, Richard A., to Kollmorgen Technologies Corporation. Electrodeposition composition and process for providing a Zn/Si/P coating on metal substrates. 4,672,007, 6-9-87, Cl. 428-624.000.
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Tengesdal, Paul. Ventilator unit. 4,688,626, 8-25-87, Cl. 165-4.000.
Tengler, Hermann; and Mettler, Paul, to Elpatronic AG. Saturation monitoring arrangement and method of control for a frequency-converter welding deivce. 4,709,132, 11-24-87, Cl. 219-110.000.
Tengler, John N.; and Shmatovich, Chris A., to Minnesota Mining and Manufacturing Company. Coaxial cable terminator. 4,664,467, 5-12-87, Cl. 339-177.00R.
Tengler, John N.: *See*—
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Tengowski, Joseph L.: *See*—
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Tengqvist, Lennart, to Lacani AB. Method for treating nails. 4,670,310, 6-2-87, Cl. 427-388.400.
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Tenhagen, Rudolf J., to BP Chemicals Limited. Process for making polyurethane foam. 4,714,574, 12-22-87, Cl. 264-45.100.
Tenhaven, Ulrich: *See*—
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Warnke, Heinrich; Kaup, Friedel; Bersch, Bernhard; Mertinkat, Willi; and Tenhaven, Ulrich, 4,707,385, Cl. 427-374.100.
Tenhengel, Edwin L., to Conbraco Industries, Inc. Backflow preventing device. 4,669,497, 6-2-87, Cl. 137-218.000.
ten Houte de Lange, Jacobus A. M.: *See*—
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Tenhover, Michael A., to Standard Oil Company, The. Amorphous metal-based composite oxygen anodes. 4,696,731, 9-29-87, Cl. 204-290.00R.
Tenhover, Michael A., to Standard Oil Company, The. Multi-layered amorphous metal-based oxygen anodes. 4,702,813, 10-27-87, Cl. 204-290.00R.
Tenhover, Michael A.; Harris, Jonathan H.; and Grasselli, Robert K., to Standard Oil Company, The. Anodes containing iridium based amorphous metal alloys and use thereof as halogen electrodes. 4,705,610, 11-10-87, Cl. 204-95.000.
Tenhover, Michael A.: *See*—
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Tenjinbayashi, Koji, to Agency of Industrial Science & Technology, and Ministry of International Trade and Industry. Interference method and interferometer for testing the surface precision of a parabolic mirror. 4,693,604, 9-15-87, Cl. 356-348.000.
ten Kate, Herman H. J.: *See*—
van de Klundert, Louis J. M.; ten Kate, Herman H. J.; Sikkenga, Jan; Groenenboom, Maarten; and Lisser, Jacques, 4,709,314, Cl. 363-14.000.
Tenma, Tadashi; Akashi, Kichizo; Konishi, Yozo; and Watase, Hideo, to Hitachi, Ltd. Automatic freight stacking system. 4,692,876, 9-8-87, Cl. 364-513.000.
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Field, Bruce F.; and Kasper, Joseph G., 4,679,271, Cl. 15-49.00C.
Kasper, Joseph G.; Field, Bruce F.; Westrum, Keith R.; and Grimes, Charles E., 4,675,935, Cl. 15-319.000.
Peabody, Ralph C.; and Grimes, Charles E., 4,634,403, Cl. 474-1.000.
Tennant, James M. Collapsible support. 4,662,132, 5-5-87, Cl. 52-148.000.
Tennant, Robert J.: *See*—
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Kodert, Frederick G.; Latreille, Maurice G.; McHenry, Robert J.; Nahill, George F.; Pfutzenreuter, Henry, III; Tennant, William A.; Tung, Thomas T.; and Vella, John, Jr., 4,712,990, Cl. 425-130.000.
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Twardowski, Zbigniew, 4,678,655, Cl. 423-478.000.
Tenneco Canada Inc. (ERCO division): *See*—
Lipsztajn, Marek, 4,699,701, Cl. 204-130.000.
Twardowski, Zbigniew; and McGilvery, James D., 4,683,039, Cl. 204-95.000.
Twardowski, Zbigniew, 4,692,228, Cl. 204-105.00R.
Tenneco Inc.: *See*—
Johnston, Alan A.; and Cuellar, John P., Jr., 4,668,413, Cl. 252-56.00R.
Sager, Robert L., Jr., 4,655,035, Cl. 60-307.000.
Tenneco Oil Company: *See*—
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Tennent, David F. Machine for inserting elongated cylindrical objects into mailing receptacles. 4,669,633, 6-2-87, Cl. 221-175.000.
Tennent, Howard G., to Hyperion Catalysis International, Inc. Carbon fibrils, method for producing same and compositions containing same. 4,663,230, 5-5-87, Cl. 428-367.000.
Tenner, Thomas E., Jr.: *See*—
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Hsieh, Shuang-shii, 4,636,303, Cl. 209-167.000.

Mair, Alexander D., 4,702,896, Cl. 423-167.000.
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Tennichi, Yasuhiro: *See*—
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Tennie, Manfred: *See*—
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Tenoso, Harold J., to Unimed, Inc.: Treatment of multiple sclerosis, 4,654,333, 3-31-87, Cl. 514-184.000.
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Tensho Electric Industries Co., Ltd.: *See*—
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Tensiodyne Scientific Corporation: *See*—
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Tensiter S.p.A.: *See*—
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Tensor Geophysical Service Corporation: *See*—
French, William S., 4,660,185, Cl. 367-19.000.
Tensor, Inc.: *See*—
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Tenu, Jean P.; Phillips, Nigel C.; Petit, Jean-Francois; and Bernard, Jean M.: Derivatives of muramyl-peptides and of steroids having macrophage-activating properties, 4,663,311, 5-5-87, Cl. 514-25.000.
Tenud, Leander; and Gosteli, Jacques, to Lonza Ltd.: Optically-active di-[3-chloro-2-oxy-propyltrimethylammonium]-tartrate, 4,670,192, 6-2-87, Cl. 260-501.150.
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Tenygl, Jiri, to Ceskoslovenska akademie ved: Method and apparatus for electrochemical analysis of solutions, 4,661,210, 4-28-87, Cl. 204-1.00T.
Tenzer, Abraham I., to Bio-Organics, Inc.: Bioactivating system for increased plant growth and yields, 4,666,497, 5-19-87, Cl. 71-6.000.
Teoh, Eam K.; Goodwin, Graham C.; and Edwards, William J., to John Lysaght (Australia) Limited: Rolling mill strip thickness controller, 4,691,547, 9-8-87, Cl. 72-16.000.
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Gulyas, Tamas; Horvath, Aniko; Keri, Gyorgy; Nikolics, Karoly; Szoke, Balazs; and Teplan, Istvan, 4,647,553, Cl. 514-15.000.
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Tepperberg, Phillip S.: Hand augmenting spinal manipulator encircling the hand, 4,705,030, 11-10-87, Cl. 128-69.000.
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Terada, Hiroshi, to Sharp Kabushiki Kaisha: Power transfer circuit, 4,675,801, 6-23-87, Cl. 363-143.000.
Terada, Kanechiyo, to Nippondenso Co., Ltd.: Magneto generator for internal combustion engine, 4,636,671, 1-13-87, Cl. 310-74.000.
Terada, Kanechiyo; Saga, Toshihiro; and Koizumi, Masahiro, to Nippondenso Co., Ltd.: Ignition apparatus for internal combustion engines, 4,699,115, 10-13-87, Cl. 123-604.000.
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Terada, Kimio; Mori, Michio; Goto, Yoichi; Nakazawa, Takashi; Mori, Kunio; and Usami, Shozo, to Asahi Denka Kogyo K.K.: Process for making creamy bacteria-free foamable oil-in-water emulsion including chocolate, 4,637,937, 1-20-87, Cl. 426-570.000.
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Terada, Takami; and Hayashi, Masayuki, to Aisin Seiki Kabushiki Kaisha: Powered seat adjusting device, 4,645,159, 2-24-87, Cl. 248-429.000.
Terada, Takami; and Suzuki, Saburo, to Aisin Seiki Kabushiki Kaisha: Reclining seat mechanism, 4,660,886, 4-28-87, Cl. 297-367.000.
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Terada, Yasushi; and Nakayama, Takeshi, to Mitsubishi Denki Kabushiki Kaisha: Semiconductor memory device, 4,691,216, 9-1-87, Cl. 357-23.600.
Terada, Yasushi; and Nakayama, Takeshi, to Mitsubishi Denki Kabushiki Kaisha: Semiconductor device, 4,694,314, 9-15-87, Cl. 357-23.600.
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Johnson, Lennart B.; Walkup, William B.; and Laychak, Steven F., 4,655,516, Cl. 339-17.0LC.
Johnson, Lennart B., 4,686,607, Cl. 361-413.000.
Kelly, John F., 4,688,865, Cl. 439-79.000.
Pitasi, Martin J., 4,682,269, Cl. 361-386.000.
Walkup, William B.; Chow, William; and Gillette, Garry C., 4,659,155, Cl. 339-14.00R.

Wrenn, Joseph F.; Heller, Lawrence; Chen, Juann-Neng; and Brenner, Jacqueline N., 4,660,197, Cl. 371-1.000.

Terae, Nobuyuki; Yamaya, Masaaki; and Okada, Fumio, to Shin-Etsu Chemical Co., Ltd. Antifoam composition. 4,690,713, 9-1-87, Cl. 106-287.160.

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Terahara, Akira; and Tanaka, Minoru, to Sankyo Company Limited. M-4 and IsoM-4 derivatives, their preparation and compositions containing them. 4,695,587, 9-22-87, Cl. 514-510.000.

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Terai, Kiyohide. Landing adjustment system for offshore structures. 4,636,113, 1-13-87, Cl. 405-203.000.

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Teraji, Tsutomu; Sakane, Kazuo; and Goto, Jiro, to Fujisawa Pharmaceutical Co., Ltd. Cephem intermediates. 4,654,422, 3-31-87, Cl. 548-115.000.

Terajima, Makoto; and Fujino, Kenji, to Yokogawa Hokushin Electric Corporation. Thermal print head. 4,651,168, 3-17-87, Cl. 346-76.0PH.

Terajima, Makoto. *See*—
Mase, Masahiro; Nagaoka, Takashi; Tsutsumi, Yoshitsugu; Taniyama, Minoru; and Terajima, Makoto, 4,668,160, Cl. 415-90.000.

Terajima, Takeshi. *See*—
Sadahiro, Toru; Taguchi, Masayuki; Tokiwa, Toru; and Terajima, Takeshi, 4,674,374, Cl. 83-62.100.

Terajima, Yushi; Tokuda, Katsuhiko; Nakamura, Shoji; Uehara, Keiichi; Ichikawa, Hideyuki; and Iwakami, Shinobu, to Shiseido Company Ltd. Hypo-allergenic moss oil and production process thereof. 4,663,080, 5-5-87, Cl. 252-522.00R.

Terakado, Seishi. *See*—
Yamamoto, Shuji; Kishimoto, Yoshio; Terakado, Seishi; and Shimada, Hideho, 4,661,690, Cl. 219-549.000.

Terakado, Tomoji; and Odagiri, Yuichi, to NEC Corporation. Integrated light emitting/receiving amplifier element. 4,698,821, 10-6-87, Cl. 372-50.000.

Terakasa, Katsunori. *See*—
Nakajima, Yasuo; Yoshimura, Tooru; and Terakasa, Katsunori, 4,651,693, Cl. 123-306.000.

Terakawa, Takashige. *See*—
Kikuchi, Makoto; Mori, Shinsaku; Nikawa, Yoshio; and Terakawa, Takashige, 4,690,156, Cl. 128-804.000.

Terakura, Yukio. *See*—
Ikemoto, Kazuhito; Terakura, Yukio; and Funato, Yasumichi, 4,674,614, Cl. 192.53.00F.

Teramachi, Hiroshi. Straight-sliding roller bearing and straight guide apparatus. 4,636,094, 1-13-87, Cl. 384-44.000.

Teramachi, Hiroshi. Simultaneously ground type bearing body and limited sliding bearing unit employing the same. 4,644,702, 2-24-87, Cl. 51-291.000.

Teramachi, Hiroshi. Linear roller bearing unit. 4,659,238, 4-21-87, Cl. 384-44.000.

Teramachi, Hiroshi. Bearing for axial linear motion. 4,659,239, 4-21-87, Cl. 384-45.000.

Teramachi, Hiroshi. Linear-motion bearing unit. 4,674,893, 6-23-87, Cl. 384-45.000.

Teramachi, Hiroshi. Table feed apparatus. 4,681,506, 7-21-87, Cl. 414-749.000.

Teramachi, Hiroshi. Recirculating-ball linear bearing and guide rail therefor. 4,692,039, 9-8-87, Cl. 384-45.000.

Teramachi, Hiroshi. Simultaneously ground type bearing body and unlimited sliding bearing unit employing the same. 4,693,040, 9-15-87, Cl. 51-291.000.

Teramachi, Hiroshi. Feeding apparatus employing ball screw. 4,693,131, 9-15-87, Cl. 74-424.80B.

Teramachi, Hiroshi. Endless ball spline. 4,695,170, 9-22-87, Cl. 384-45.000.

Teramachi, Hiroshi. Linear slide roller bearing unit. 4,702,622, 10-27-87, Cl. 384-44.000.

Teramachi, Kazuo. *See*—
Kayanoki, Katsuhiko; Teramachi, Kazuo; Ono, Seigo; and Hashimoto, Yasuyuki, 4,650,053, Cl. 192-106.200.

Teramae, Hiroshi; and Yoshimura, Yoshinari, to Kabushiki Kaisha Daikin Seisakusho. Clutch disc. 4,681,201, 7-21-87, Cl. 192-106.200.

Teramoto, Iwao. *See*—
Shimizu, Hirokazu; Itoh, Kunio; Sugino, Takashi; Wada, Masaru; Teramoto, Iwao; and Fujimoto, Kazuo, 4,651,322, Cl. 372-45.000.
Wada, Masaru; Shimizu, Hirokazu; Shibutani, Takao; Itoh, Kunio; Hamada, Ken; and Teramoto, Iwao, 4,675,074, Cl. 156-647.000.

Teramoto, Kazuo. *See*—
Kodama, Masashi; Tani, Toru; Hanazawa, Kazuyoshi; Oka, Totaro; Teramoto, Kazuo; and Nishiumi, Shiro, 4,661,260, Cl. 210-679.000.

Teramoto, Mitsutake; Saito, Shinkichi; and Takebayashi, Takamasa, to Yokohama Rubber Co., Ltd., The. Set of golf club irons. 4,645,207, 2-24-87, Cl. 273-77.00A.

Teramoto, Tsutomu. *See*—
Utsunomiya, Shunji; Teramoto, Tsutomu; and Haruta, Tadashi, 4,690,151, Cl. 128-682.000.

Teramoto, Yoshikichi; Nakamura, Kenichi; and Murayama, Naohiro, to Kureha Kagaku Kogyo Kabushiki Kaisha. Dielectric films comprising stretched films of vinylidene fluoride and porcelain particles. 4,687,803, 8-18-87, Cl. 524-413.000.

Teranishi, Akihiko; and Fukuoka, Toshio, to Teranishi Electric Works, Ltd. High potential generating toothbrush. 4,665,921, 5-19-87, Cl. 128-422.000.

Teranishi, Akio. *See*—
Tachita, Ryobun; and Teranishi, Akio, 4,696,058, Cl. 455-277.000.

Teranishi Electric Works, Ltd. *See*—
Teranishi, Akihiko; and Fukuoka, Toshio, 4,665,921, Cl. 128-422.000.

Teranishi, Haruo. *See*—
Ishikawa, Toshikatsu; Teranishi, Haruo; Imai, Yoshikazu; and Nagata, Yoichi, 4,649,060, Cl. 427-57.000.

Teranishi, Katsuya; Ozima, Kazuhira; Saito, Cyuichi; and Ogawa, Hiroyasu, to Hitachi, Ltd. Escalator. 4,682,681, 7-28-87, Cl. 198-333.000.

Teranishi, Masatoshi. *See*—
Seike, Noboru; Teranishi, Masatoshi; and Sakai, Minoru, 4,653,475, Cl. 128-4.000.

Teranishi, Masayuki; Suzuki, Koji; Kase, Hiroshi; Kitamura, Shigeto; Shuto, Katsuichi; and Omori, Kenji, to Kyowa Hakko Kogyo Co., Ltd. Quinoline-N-oxide derivative and pharmaceutical composition. 4,657,916, 4-14-87, Cl. 514-312.000.

Teranishi, Masayuki; Takahashi, Mitsuru; Nomoto, Hisayo; Kase, Hiroshi; Shuto, Katsuichi; Kubo, Kazuhiro; and Karasawa, Akira, to Kyowa Hakko Kogyo Co., Ltd. Phosphorus-containing peptide derivatives. 4,677,125, 6-30-87, Cl. 514-7.000.

Teranishi, Nobukazu; and Kohno, Akiyoshi, to NEC Corporation. Solid-state color image sensor with matrix-type color filter formed of filter elements each transmitting red, green and blue light. 4,652,911, 3-24-87, Cl. 358-44.000.

Terano, Hiroshi. *See*—
Kiyoto, Sumio; Murai, Hidetsugu; Tsurumi, Yasuhisa; Terano, Hiroshi; and Kohsaka, Masanobu, 4,670,259, Cl. 424-118.000.
Kohsaka, Masanobu; Terano, Hiroshi; Komori, Tadaaki; Iwami, Morita; Yamashita, Michio; Hashimoto, Masashi; Uchida, Itsuo; and Takase, Shigehiro, 4,645,765, Cl. 514-233.000.

Terano, Minoru; Yokoyama, Yasushi; Inoue, Masuo; and Miyoshi, Katsuyoshi, to Toho Titanium Co., Ltd. Catalyst for the polymerization of olefins. 4,640,906, 2-3-87, Cl. 502-104.000.

Terano, Minoru; Soga, Hirokazu; Inoue, Masuo; and Miyoshi, Katsuyoshi, to Toho Titanium Co., Ltd. Catalyst for the polymerization of olefins. 4,686,200, 8-11-87, Cl. 502-112.000.

Terano, Yoshitake, to Suntory Limited. Preparation containing stabilized physiologically active substance. 4,659,570, 4-21-87, Cl. 424-85.000.

Terao, Kazuo; Kubo, Tsutomu; Hyakutake, Nobuo; Tachibana, Hidekiyo; Hama, Jun-ichi; Teshigawara, Touru; and Kajimoto, Masashi, to Fuji Xerox Co., Ltd. Electrostatic latent image developing method. 4,707,428, 11-17-87, Cl. 430-102.000.

Terao, Kazuo. *See*—
Shoji, Yoshio; Terao, Kazuo; Noda, Akihiko; Yamamuro, Takashi; and Sunaga, Takayuki, 4,662,311, Cl. 118-651.000.

Terao, Motoyasu; Miyauchi, Yasushi; Shigematsu, Kazuo; and Horigome, Shinkichi, to Hitachi, Ltd. Information recording member. 4,637,976, 1-20-87, Cl. 430-523.000.

Terao, Motoyasu; Nishida, Tetsuya; Ohta, Yasuhiro; Horigome, Shinkichi; and Miyauchi, Yasushi, to Hitachi, Ltd. Thin film for recording data. 4,668,573, 5-26-87, Cl. 428-336.000.

Terao, Naoyosi. *See*—
Aoyama, Tsutomu; Nakamura, Taizo; Terao, Naoyosi; and Shimonaga, Hirohiko, 4,639,098, Cl. 350-514.000.

Terao, Toshimi. *See*—
Kitano, Kyozo; Mikuchi, Fumihiro; and Terao, Toshimi, 4,671,903, Cl. 260-505.00R.

Teraoka, Hideyuki, to Dainippon Screen Mfg. Co., Ltd. Heat treatment method. 4,678,432, 7-7-87, Cl. 432-12.000.

Teraoka, Masao; and Yuhashi, Yukio, to Tochigifujisangyo Kabushikigaisha. Hydraulic power transmission device with centrifugally actuated clutch override. 4,690,258, 9-1-87, Cl. 192-58.00C.

Teraoka, Masao, to Tochigifujisangyo Kabushikigaisha. Viscous coupling for a drive shaft. 4,712,663, 12-15-87, Cl. 192-58.00A.

Teraoka Seiko Co., Ltd.. *See*—
Denda, Toshio, 4,674,269, Cl. 53-502.000.
Denda, Toshio, 4,709,531, Cl. 53-415.000.
Iwasaki, Yoshitaka; Mori, Kunio; and Tanabe, Yoshio, 4,700,791, Cl. 177-2.000.
Matsuura, Yoshikazu, 4,673,046, Cl. 177-1.000.
Nakajima, Toshio, 4,669,381, Cl. 101-288.000.

Teraoka Seikosho Co., Ltd.. *See*—
Kazuharu, Teraoka, 4,685,702, Cl. 283-81.000.

Terasaka, Katsunori; Sunbuichi, Hiroshi; and Nakagawa, Toyoaki, to Nissan Motor Co., Ltd. Air-fuel ratio control for transient modes of

internal combustion engine operation. 4,712,529, 12-15-87, Cl. 123-492.000.
Terasaka, Kiyoshi. *See*—
Matsui, Goro; Kiba, Katsuyoshi; Terasaka, Kiyoshi; and Aoyama, Yuichi, 4,670,814, Cl. 361-274.000.
Terasaka, Satoru. *See*—
Enzaki, Yoshiki; Kitahara, Kazuki; Terasaka, Satoru; Mori, Kenji; and Kimura, Takeshi, 4,695,247, Cl. 431-352.000.
Terasaka, Teiji. *See*—
Ise, Masahiro; Tanaka, Hidehiko; Machino, Katsuyuki; Matsubara, Toshiyuki; and Terasaka, Teiji, 4,675,668, Cl. 340-825.080.
Terasaki, Hidenori. *See*—
Morioka, Tohru; Terasaki, Hidenori; Akasu, Hiroyuki; Nakano, Akiyoshi; and Takase, Kohichi, 4,650,457, Cl. 604-4.000.
Terasaki, Kazunori, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Method for treating a weft yarn in a shuttleless loom and device for effecting the same. 4,635,686, 1-13-87, Cl. 139-116.000.
Terasaki, Masanori. *See*—
Ino, Toshio; Maenosono, Tsukasa; Yoshida, Kazuo; Terasaki, Masanori; Kuriwaki, Tetsusho; Koga, Tadao; and Hirado, Miharu, 4,694,131, Cl. 219-10.410.
Koga, Tadao; Sugimori, Mitsuru; Terasaki, Masanori; Maenosono, Tsukasa; Tsushima, Satoru; Yoshida, Kazuo; Kuriwaki, Tetsusho; and Hirado, Miharu, 4,687,894, Cl. 219-10.430.
Terasaki, Syuji. *See*—
Murayama, Naohiro; Kakutani, Haruko; Mizuno, Toshiya; Nakamura, Kenichi; and Terasaki, Syuji, 4,656,234, Cl. 526-255.000.
Terasawa, Akinobu. *See*—
Horikawa, Mitsuo; and Terasawa, Akinobu, 4,651,388, Cl. 24-409.000.
Terasawa, Haruhumi. *See*—
Ishigami, Yukio; Akiyama, Yoshinori; and Terasawa, Haruhumi, 4,655,501, Cl. 297-113.000.
Terasawa, Hidenori, to Nippon Kogaku K. K. Wide angle and variable magnification lens system for finite distance. 4,650,295, 3-17-87, Cl. 350-425.000.
Terasawa, Hidenori, to Nippon Kogaku K. K. Zoom lens. 4,709,997, 12-1-87, Cl. 350-427.000.
Terasawa, Koji, to Canon Kabushiki Kaisha. Printing apparatus. 4,636,814, 1-13-87, Cl. 346-140.00R.
Terasawa, Koji, to Canon Kabushiki Kaisha. Suction recovery apparatus of ink-jet printer. 4,656,490, 4-7-87, Cl. 346-140.00R.
Terasawa, Koji, to Canon Kabushiki Kaisha. Suction recovering device for an ink jet printer and ink jet printer having the same device. 4,682,184, 7-21-87, Cl. 346-140.00R.
Terasawa, Koji, to Canon Kabushiki Kaisha. Ink jet printer. 4,695,851, 9-22-87, Cl. 346-140.00R.
Terasawa, Koji. *See*—
Kiyohara, Takehiko; Terasawa, Koji; and Miyakawa, Akira, 4,712,172, Cl. 346-1.100.
Terasawa, Masaaki. *See*—
Sato, Nobuyuki; Ujiie, Kazuaki; Terasawa, Masaaki; and Nabetani, Shinji, 4,692,904, Cl. 365-226.000.
Terasawa, Yoshio; and Oikawa, Saburo, to Hitachi, Ltd. Reverse blocking type semiconductor device. 4,713,679, 12-15-87, Cl. 357-38.000.
Terase, Kunihiko. *See*—
Senoue, Makoto; Terase, Kunihiko; and Nakaya, Keiichi, 4,673,558, Cl. 423-240.000.
Terashi, Hiroto, to Asahi Kogaku Kogyo Kabushiki Kaisha. Video camera iris control circuit. 4,649,431, 3-10-87, Cl. 358-228.000.
Terashima, Jun. *See*—
Arakawa, Kazuhiko; Terashima, Jun; and Tokura, Go, 4,711,548, Cl. 354-485.000.
Konno, Tatsuo; Sugiyama, Yoshiaki; Terashima, Jun; and Kiuchi, Masayoshi, 4,699,486, Cl. 354-82.000.
Tokura, Go; Arakawa, Kazuhiko; and Terashima, Jun, 4,716,259, Cl. 174-68.500.
Terashima, Kanetsugu. *See*—
Inoue, Hiromichi; Saito, Shinichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,676,925, Cl. 252-299.650.
Inoue, Hiromichi; Saito, Shinichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, 4,689,176, Cl. 252-299.650.
Saito, Shinichi; Inoue, Hiromichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,647,398, Cl. 252-299.650.
Saito, Shinichi; Inoue, Hiromichi; Terashima, Kanetsugu; Inukai, Takashi; and Furukawa, Kenji, 4,657,695, Cl. 252-299.610.
Saito, Shinichi; Inoue, Hiromichi; Miyazawa, Kazutoshi; Inukai, Takashi; and Terashima, Kanetsugu, 4,668,427, Cl. 252-299.660.
Terashima, Kazutaka. *See*—
Fukuda, Tsuguo; and Terashima, Kazutaka, 4,637,854, Cl. 156-607.000.
Terashima, Kiichi. *See*—
Fukuda, Masao; Kakita, Yukio; Ueda, Kenji; Terashima, Kiichi; and Bochi, Hiroshi, 4,711,345, Cl. 198-572.000.
Terashima, Masaaki. *See*—
Seshimoto, Osamu; Nozawa, Mituharu; Terashima, Masaaki; and Saito, Yoshio, 4,684,445, Cl. 204-1.00T.
Terashima, Shigeo. *See*—
Sekimoto, Yoshihiro; Terashima, Shigeo; Kumata, Kiyoshi; and Tanaka, Toshiyuki, 4,678,276, Cl. 350-247.000.
Sekimoto, Yoshihiro; Terashima, Shigeo; and Kojima, Kunio, 4,696,566, Cl. 350-255.000.
Terashima, Yoshiaki. *See*—
Ohkawa, Hideki; Ichihara, Katsutarou; Terashima, Yoshiaki; and Yasuda, Nobuaki, 4,666,759, Cl. 428-213.000.
Terashita, Shinji, to Yamaha Hatsudoki Kabushiki Kaisha. Transmission for motor three-wheelers. 4,658,661, 4-21-87, Cl. 74-331.000.
Terashita, Takaaki, to Fuji Photo Film Co., Ltd. Method for determining exposure amount in photographic printing. 4,641,959, 2-10-87, Cl. 355-77.000.
Terashita, Takaaki, to Fuji Photo Film Co., Ltd. Color film inspection method. 4,646,252, 2-24-87, Cl. 364-525.000.
Terashita, Takaaki; and Shigaki, Takao, to Fuji Photo Film Co., Ltd. Method of detecting principal subject image and determining exposures in color printing. 4,668,082, 5-26-87, Cl. 355-77.000.
Terashita, Takaaki, to Fuji Photo Film Co., Ltd. Method for controlling exposure in color photographic printers. 4,707,118, 11-17-87, Cl. 355-38.000.
Terashita, Takaaki, to Fuji Photo Film Co., Ltd. Photographic printer. 4,707,119, 11-17-87, Cl. 355-38.000.
Terashita, Takaaki, to Fuji Photo Film Co., Ltd. Photographic printer and method for determining exposure amount thereof. 4,710,019, 12-1-87, Cl. 355-38.000.
Terashita, Takaaki. *See*—
Suzuki, Kenji; Terashita, Takaaki; and Murayama, Jin, 4,710,801, Cl. 358-41.000.
Terashita, Toshiyuki. *See*—
Mamiya, Kiyotaka; Terashita, Toshiyuki; Okazaki, Katsumi; and Nakazumi, Taddtaka, 4,669,439, Cl. 123-489.000.
Teratani, Tatsuo. *See*—
Nakamura, Naotaka; Miyamoto, Yoshimi; Mamiyama, Motokazu; Tsubai, Toshiji, deceased; Teratani, Tatsuo; and Ishihara, Nobuyuki, 4,652,705, Cl. 200-19.00R.
Terauchi, Kiyoshi, to Sanden Corporation. Scroll type compressor with displacement adjusting mechanism. 4,642,034, 2-10-87, Cl. 417-295.000.
Terauchi, Kiyoshi, to Sanden Corporation. Slant plate type compressor with capacity adjusting mechanism and rotating swash plate. 4,664,604, 5-12-87, Cl. 417-222.000.
Terauchi, Ryugo, to Nippon Rehabili-Medical Corporation. Body massage apparatus with demountable vibrator. 4,697,580, 10-6-87, Cl. 128-36.000.
Terauchi, Yasuo. *See*—
Mihara, Tohru; Sato, Kiyoshi; and Terauchi, Yasuo, 4,679,962, Cl. 404-126.000.
Terauds, Oskar R., to Stouffer Corporation, The. Frozen food package and cover lid. 4,687,117, 8-18-87, Cl. 220-306.000.
Teraue, Takeshi. *See*—
Tada, Akira; Morita, Takamitsu; Teraue, Takeshi; and Kusumoto, Yoshihiro, 4,636,554, Cl. 525-359.300.
Terawaki, Katsumi. *See*—
Nakaki, Masashi; Terawaki, Katsumi; Shimomura, Tadao; and Kimura, Kazumasa, 4,656,232, Cl. 526-88.000.
Terayama, Arataro. *See*—
Ohta, Harutaka; Miyamoto, Kazuchiyo; Terayama, Arataro; Maruhashi, Seiji; and Gohdo, Shigeru, 4,708,082, Cl. 114-230.000.
Terayama, Takao. *See*—
Higasii, Housei; Terayama, Takao; Nishijima, Hideo; and Nakamura, Hiroshi, 4,675,752, Cl. 360-10.300.
Terayama, Yasunori; Nakamura, Masashi; Fujue, Kazuhiko; and Yoshitoshi, You, to Sony Corporation. Optical pickup. 4,687,296, 8-18-87, Cl. 350-247.000.
Terazawa, Masaaki. *See*—
Komiya, Ryohei; and Terazawa, Masaaki, 4,701,768, Cl. 346-74.400.
Terazono, Shinichi, to Mitsubishi Denki Kabushiki Kaisha. Photoelectric transducer with adjustable sensitivity to incident light wavelength. 4,714,824, 12-22-87, Cl. 250-211.00R.
Ter Beek, Albertus. *See*—
Ter Beek, Gerrit J.; and Ter Beek, Albertus, 4,715,724, Cl. 366-157.000.
Ter Beek, Gerrit J.; and Ter Beek, Albertus. Head attachment for a hydraulic synthetic-resin working machine for colored synthetic resin. 4,715,724, 12-29-87, Cl. 366-157.000.
Terbrack, William H.; Brion, Harvey F.; and Minear, Ronald J., to Hughes Aircraft Company. Headset receiver cartridge and earphone case therefor. 4,649,570, 3-10-87, Cl. 455-344.000.
Terenghi, Tiziano. *See*—
Re, Alberto; and Terenghi, Tiziano, 4,699,969, Cl. 528-70.000.
Terenzoni, Robert. Method of constructing a dormer while preserving the existing roof. 4,676,044, 6-30-87, Cl. 52-741.000.
Ter Heide, Lammert. *See*—
Munnig Schmidt, Robert H.; and Ter Heide, Lammert, 4,647,833, Cl. 320-21.000.
Terhorst, Bruce R. *See*—
Matsko, Joseph J.; Grunert, Kurt A.; and Terhorst, Bruce R., 4,642,726, Cl. 361-198.000.
Ter Horst, Gerrit H. F. *See*—
Vrind, Hendrik C.; Ter Horst, Gerrit H. F.; and Hamer, Henrik J., 4,669,248, Cl. 53-229.000.
Terhune, John J., to T. Entrepreneur, Inc. Garden tool. 4,693,022, 9-15-87, Cl. 36-132.000.
Terhune, Robert D. *See*—
Funk, Gary L.; Terhune, Robert D.; Kania, Cheryl C.; and Kallenberger, Robert H., 4,642,766, Cl. 364-402.000.
Terita, Robert S., to Bead Chain Manufacturing Company. Swaged compliant connector pins for printed circuit boards. 4,681,392, 7-21-87, Cl. 439-751.000.

Terkelsen, Bruce E., to United Technologies Corporation. Method and apparatus for epitaxial solidification. 4,714,101, 12-22-87, Cl. 164-122.200.
Terlecky, Boris S., to Trailer Train Company. All purpose railroad car. 4,636,119, 1-13-87, Cl. 410-54.000.
Terlecky, Boris S.: *See*—
Brodeur, Rene H., and Terlecky, Boris S., 4,681,040, Cl. 105-3.000.
Terlizzi, Frank M., Jr.; and Langen, Bernardus G., to W. R. Grace & Co. Molded meat vacuum packaging. 4,672,793, 6-16-87, Cl. 53-434.000.
Terman, David S.; Balint, Joseph P.; and Langone, John J. Products and methods for treatment of cancer. 4,699,783, 10-13-87, Cl. 424-85.000.
Terman, Lewis M.: *See*—
Lu, Nicky C.; Ning, Tak H.; and Terman, Lewis M., 4,688,063, Cl. 357-23.600.
Rajeevakumar, Thekkemadathil V.; and Terman, Lewis M., 4,638,462, Cl. 365-203.000.
Termet, Pierre. Cartridge loading and feeding arrangement for explosive charge operated device. 4,686,786, 8-18-87, Cl. 42-1.120.
Terminal Data Corporation: *See*—
Van Den Heuvel, Raymond C., 4,704,632, Cl. 358-209.000.
Termini, Frank J.: *See*—
Fowler, David K.; Karadimas, Margaret; DeSimone, Ronald; and Termini, Frank J., 4,688,862, Cl. 312-325.000.
Termofrost Sweden AB: *See*—
Svensson, Torsten, 4,637,167, Cl. 49-386.000.
Termohlen, David E. Drilling pipe for downhole drill motor. 4,690,212, 9-1-87, Cl. 166-65.100.
Termoz, Christian: *See*—
Duret, Francois; and Termoz, Christian, 4,663,720, Cl. 364-474.000.
Ternansky, Robert J., to Eli Lilly and Company. 1-(vinyl phosphonate adduct) pyrazolidinones. 4,716,232, 12-29-87, Cl. 548-112.000.
Terneu, Robert; and Roucour, Jean, to Glaverbel. Transparent glazing panels. 4,687,687, 8-18-87, Cl. 428-34.000.
Terneu, Robert: *See*—
Van Cauter, Albert; Terneu, Robert; and Van Laethem, Robert, 4,655,810, Cl. 65-60.400.
Van Laethem, Robert; Van Cauter, Albert; and Terneu, Robert, 4,664,059, Cl. 118-523.000.
Terni, Patrizia: *See*—
Mascellani, Giuseppe; Fravolini, Arnaldo; and Terni, Patrizia, 4,668,784, Cl. 544-32.000.
Mascellani, Giuseppe; Fravolini, Arnaldo; and Terni, Patrizia, 4,684,647, Cl. 514-222.000.
Terni-Societa per l'Industria e l'Elettricita SpA: *See*—
Podrini, Maurizio; Ferretti, Alessandro; and Di Schino, Giancarlo, 4,671,433, Cl. 222-606.000.
Ternstrom, Maj I.: *See*—
Widlund, Leif U. R.; and Ternstrom, Maj I., 4,692,163, Cl. 604-385.00A.
Teron, Christopher, to Teron International Urban Development Corporation Ltd. Electrical box. 4,674,646, 6-23-87, Cl. 220-3.400.
Teron International Urban Development Corporation Ltd.: *See*—
Teron, Christopher, 4,674,646, Cl. 220-3.400.
Teroson G.m.b.H.: *See*—
Duck, Edward W.; and Scheffler, Ingolf, 4,716,070, Cl. 428-192.000.
Terpinski, Eva A.: *See*—
Evans, Sevin A.; Terpinski, Eva A.; and Testa, Douglas, 4,710,376, Cl. 424-83.000.
Terpstra, Daniel A.: *See*—
Steiner, Robert E.; Cox, Karmen D.; Terpstra, Daniel A.; Metzger, James J., Jr.; and Plume, Steven H., 4,641,557, Cl. 83-71.000.
Terpstra, Paulus N., to Cacaofabriek de Zaan B.V. Filter for a high pressure separating press. 4,684,466, 8-4-87, Cl. 210-227.000.
Terra International, Inc.: *See*—
Haynes, Robert W., 4,693,609, Cl. 366-136.000.
Terra, Luigi; Sada, Edoardo; and Colombo, Sergio, to S.E.L.O. Societa Elettronica Lombarda S.p.A. Multipurpose apparatus for normal or tomographic investigations by means of a gamma camera. 4,649,277, 3-10-87, Cl. 250-363.00S.
Terra Marine Engineering, Inc.: *See*—
Russell, William F.; and Bryce, Willom W., 4,663,744, Cl. 367-76.000.
Terra Tek, Inc.: *See*—
Johnson, Christopher F.; and Green, Sidney J., 4,679,441, Cl. 73-798.000.
Owen, Lawrence B.; and Green, Sidney J., 4,634,315, Cl. 405-217.000.
Owen, Lawrence B.; Masterson, Daniel M.; and Green, Sidney J., 4,637,217, Cl. 62-74.000.
Terracol, Claude; and Roulet-Dubonnet, Jean-Pierre, to Meclin Gerin. Shunt effect low voltage circuit breaker. 4,695,913, 9-22-87, Cl. 361-13.000.
Terrade, Francois; and Laheyne, Claude, to Phillips Petroleum Company. Atomizing nozzle and use. 4,645,129, 2-24-87, Cl. 239-427.000.
Terrafix Limited: *See*—
Lowe, Eric; Poppe, Martin C.; and Stratton, Andrew., 4,680,590, Cl. 342-457.000.
Terragnoli, John. Self-contained machine for simultaneously slicing and perforating muffins prior to packaging. 4,677,888, 7-7-87. Cl. 83-862.000.
Terramundo Ltd.: *See*—
Wehrli, Walter, 4,635,378, Cl. 34-1.000.
Terranova, Victor P.; Wikesjo, Ulf M. E.; Genco, Robert J.; Hic, Susanne; and Lyall, Raymond M., to Meloy Laboratories, Inc. Method of promoting periodontal regeneration and fibroblast bonding. 4,702,734, 10-27-87, Cl. 604-54.000.
Terrell, David: *See*—
Debbaut, Christian A. M.; Gac, Norman; Lopez, Eugene F.; Meyer, Wendell W.; Terrell, David; and Tsou, Patrick K., 4,670,069, Cl. 156-48.000.
Terrell, Jacquelyn B.; and Mullersman, Ferdinand H., to General Electric Company. Battery charger for plural cell holding modules. 4,645,995, 2-24-87, Cl. 320-2.000.
Terrell, Kym A.; and Lance, Mark A., to Illinois Tool Works Inc. Strap buckle. 4,662,040, 5-5-87, Cl. 24-625.000.
Terrell, Michael S., to Duke Power Company. Material sampling apparatus. 4,682,507, 7-28-87, Cl. 73-863.570.
Terrell, Paul J.: *See*—
Izumi, Hideki D.; and Terrell, Paul J., 4,680,731, Cl. 364-900.000.
Terrell, Robert B.: *See*—
Slaughter, John E.; and Terrell, Robert B., 4,706,120, Cl. 358-103.000.
Terrell, Sanford V.: *See*—
Gabuzda, Paul G.; and Terrell, Sanford V., 4,715,438, Cl. 165-185.000.
Terreri, Claude J. Swimming pool cover support, covered swimming pool and method of covering a swimming pool. 4,685,254, 8-11-87, Cl. 52-2.000.
Terrian, Barbara C. Combination storm window and security system. 4,686,792, 8-18-87, Cl. 49-61.000.
Terrien, Conrad; and Carlson, Lee G., to UIP Engineered Products Corporation. Ion exchange apparatus. 4,693,818, 9-15-87, Cl. 210-189.000.
Terrien, Conrad: *See*—
Carlson, Lee G.; Terrien, Conrad; and Queisser, Roger, 4,670,154, Cl. 210-675.000.
Terrien, Donald R.: *See*—
Giggard, Earl D.; Khoury, Nick S.; and Terrien, Donald R., 4,676,392, Cl. 220-284.000.
Terrill, Larry R.: *See*—
Carr, Francis L.; and Terrill, Larry R., 4,638,236, Cl. 320-21.000.
Terrill, Maurice W. Surface engaging fishing pole holder. 4,656,774, 4-14-87, Cl. 43-21.200.
Terrill, Robert E.: *See*—
Kottman, Rickie A.; Terrill, Robert E.; and Wise, Ann E., 4,685,975, Cl. 134-33.000.
Terry, Alan J., to U.S. Philips Corporation. Deflection circuit for a cathode ray tube. 4,667,134, 5-19-87, Cl. 315-366.000.
Terry, Byron R., to Kimberly-Clark Corporation. Process for dry deinking of secondary fiber sources. 4,665,339, 5-26-87, Cl. 162-4.000.
Terry Corporation: *See*—
Howe, George C., 4,674,552, Cl. 164-11.000.
Wassell, Mark E.; and Mosmann, John G., 4,684,326, Cl. 416-215.000.
Terry, Harold: *See*—
Fossati, Giorgio; Terry, Harold; and Manco, Giuseppe, 4,674,527, Cl. 137-115.000.
Fossati, Giorgio; Terry, Harold; and Manco, Giuseppe, 4,700,748, Cl. 137-877.000.
Terry, Joel R.: *See*—
Kearton, William B.; Klees, Kenneth A.; and Terry, Joel R., 4,708,844, Cl. 376-247.000.
Terry, John P.; and May, Oscar W., to Buckman Laboratories, Inc. Aminophosphonic acid/phosphate mixtures for controlling corrosion of metal and inhibiting calcium phosphate precipitation. 4,671,934, 6-9-87, Cl. 422-15.000.
Terry, Lewis E.; and Thompson, Emily M., to Motorola, Inc. MOS transistor. 4,675,713, 6-23-87, Cl. 357-23.100.
Terry, Richard N., to Concept, Inc. Coupling device for attachment to an end of a catheter. 4,675,007, 6-23-87, Cl. 604-283.000.
Terry, Ruel C. Terminating persistent underground coal fires. 4,641,711, 2-10-87, Cl. 169-44.000.
Terry, Steve: *See*—
McEachern, Alexander; and Terry, Steve, 4,642,563, Cl. 324-111.000.
Terry, Sydney L. Locking fastener. 4,708,555, 11-24-87, Cl. 411-149.000.
Tersaeus, Stig G.: *See*—
Beudat, Emile; and Tersaeus, Stig G., 4,633,688, Cl. 70-279.000.
Tershak, Andrew T.: *See*—
Marcade, Roque D.; Thurlow, Sandra S.; Bookout, Donald W.; and Tershak, Andrew T., 4,646,528, Cl. 62-127.000.
Terskov, Alexei D.: *See*—
Kostylev, Alexandr D.; Svryamin, Jury N.; Smolyanitsky, Boris N.; Beginsky, Vladimir P.; Terskov, Alexei D.; Mjuntser, Elena G.; and Petreev, Anatoly M., 4,653,596, Cl. 173-135.000.
Kostylev, Alexandr D.; Plavskikh, Vladimir D.; Skachkov, Konstantin B.; Terskov, Alexei D.; Reznikov, Igor I.; and Tarasenko, Vladimir I., 4,697,647, Cl. 173-91.000.
Tertilt, Wernet, to Claas OHG. Mobile large baling press for harvested agricultural product. 4,662,275, 5-5-87, Cl. 100-89.000.
Terui, Hiroshi: *See*—
Araki, Kunihiko; Kitajima, Tomoya; Serikawa, Yoshio; Terui, Hiroshi; Koyama, Kenji; and Kobayashi, Mikio, 4,653,885, Cl. 354-173.100.
Terui, Mituru; Obata, Masaaki; and Morooka, Noriji, to Ikeda Bussan Co., Ltd. Reclining chair. 4,660,884, 4-28-87, Cl. 297-317.000.
Terui, Nobuhiko; and Takahata, Hisatoshi, to Nippon Kogaku K. K. Flash photographing system. 4,695,148, 9-22-87, Cl. 354-413.000.

Terui, Nobuhiko; and Hagiuda, Nobuyoshi, to Nippon Kogaku K. K. Flash photographing system. 4,697,907, 10-6-87, Cl. 354-416.000.

Terui, Nobuhiko: *See*—
Ogasawara, Akira; Watanabe, Sakuji; Terui, Nobuhiko; Utagawa, Ken; and Hoshino, Kunihisa, 4,634,851, Cl. 250-204.000.

Terui, Nobuo: *See*—
Ohya, Hiroshi; and Terui, Nobuo, 4,700,376, Cl. 379-77.000.

Terui, Sadao: *See*—
Ohata, Tomohisa; Terui, Sadao; and Shiraishi, Eiichi, 4,705,946, Cl. 502-304.000.

Terumo Corporation: *See*—
Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, 4,701,659, Cl. 310-334.000.
Ishizaka, Hideo; and Hanzawa, Yoshiki, 4,648,055, Cl. 364-557.000.
Ito, Hideyuki; and Takanashi, Nobuyasu, 4,689,099, Cl. 156-69.000.
Iwamoto, Tomiyuki; Hayakawa, Naoki; and Matsubara, Shigeru, 4,657,540, Cl. 604-408.000.
Kanno, Michio, 4,657,743, Cl. 422-46.000.
Kanno, Michio; and Koremura, Mitsumasa, 4,689,149, Cl. 210-321.300.
Kobayashi, Susumu; and Morikawa, Hideyuki, 4,648,812, Cl. 417-477.000.
Moriuchi, Yousuke; and Kousai, Tadashi, 4,699,617, Cl. 604-246.000.
Sato, Isao, 4,655,764, Cl. 604-408.000.
Suzuki, Tatsuo, 4,682,980, Cl. 604-122.000.
Wakabayashi, Toshio; Takai, Makoto; Ichikawa, Shuji; Arai, Junichiro; and Murota, Seiitsu, 4,673,684, Cl. 514-327.000.
Yamaguchi, Keiji; and Ishizaka, Hideo, 4,677,983, Cl. 128-680.000.
Yamaguchi, Keiji, 4,712,564, Cl. 128-682.000.

Terumo Kabushiki Kaisha: *See*—
Fujii, Tadashi, 4,644,510, Cl. 367-87.000.
Fujii, Tadashi; and Ishizuka, Yoshizo, 4,646,748, Cl. 128-660.000.
Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, 4,704,774, Cl. 29-25.350.
Ichikawa, Tosnji; and Ohachi, Yoshinori, 4,657,541, Cl. 604-408.000.
Ichikawa, Toshiji; Takahara, Kazuaki; Shimoda, Kazuhiro; Seita, Yukio; and Emi, Makoto, 4,708,800, Cl. 210-500.230.
Igarashi, Takeshi; Endo, Toshihiko; and Koshi, Isei, 4,673,636, Cl. 435-34.000.
Isono, Keinosuke; and Naoi, Keiji, 4,634,447, Cl. 623-66.000.
Isono, Keinosuke; and Naoi, Keiji, 4,643,715, Cl. 604-4.000.
Isono, Keinosuke, 4,668,217, Cl. 604-49.000.
Kanno, Michio, 4,658,655, Cl. 73-863.850.
Kasai, Masaaki; and Ishikawa, Kenji, 4,664,275, Cl. 215-247.000.
Kasai, Masaaki; and Ishikawa, Kenji, 4,682,703, Cl. 215-247.000.
Katsura, Yoshiro, 4,690,762, Cl. 210-436.000.
Kobayashi, Susumu; Muramoto, Yutaka; Ishizaka, Hideo; and Ishii, Yoshinori, 4,684,869, Cl. 320-2.000.
Monzen, Takashi, 4,664,682, Cl. 55-178.000.
Nishimura, Tetsuro; Tanokura, Nobukazu; and Urushibata, Masahiro, 4,657,535, Cl. 604-263.000.
Ohachi, Yoshinori, 4,657,542, Cl. 604-410.000.
Ohachi, Yoshinori, 4,664,115, Cl. 128-354.000.
Samejima, Masayoshi; Matsuda, Saburo; Wakabayashi, Toshio; and Hayakawa, Naoki, 4,670,261, Cl. 424-127.000.
Sato, Isao, 4,675,017, Cl. 604-405.000.
Seki, Shigehazu; and Tanabe, Susumu, 4,685,470, Cl. 128-692.000.
Shimomu ., Takeshi; and Takahashi, Tohru, 4,705,612, Cl. 204-165.000.
Shinno, Kouji; and Kuboki, Hitoshi, 4,695,276, Cl. 604-283.000.
Shinohara, Shuichi, 4,664,659, Cl. 604-283.000.
Shitaokoshi, Sachiro; Sekiguchi, Mamoru; Takagi, Toshitaki; and Mori, Toshimichi, 4,705,497, Cl. 604-4.000.
Suzuki, Tatsuo; and Matsumoto, Atsushi, 4,673,393, Cl. 604-167.000.
Suzuki, Tatsuo; and Matsumoto, Atsushi, 4,682,981, Cl. 604-158.000.
Takagi, Toshiaki, 4,665,959, Cl. 141-330.000.
Takanashi, Nobuyasu, 4,687,474, Cl. 604-257.000.
Wakabayashi, Toshio; Kumonaka, Takahiro; and Suwabe, Yasushi, 4,656,172, Cl. 514-252.000.
Wakabayashi, Toshio; Takahashi, Keiko; and Katayama, Hajime, 4,704,393, Cl. 514-274.000.
Watanabe, Masaharu; and Ohe, Hiroaki, 4,678,566, Cl. 210-143.000.
Yamamoto, Yuichi, 4,681,582, Cl. 604-890.000.
Yamamoto, Yuichi; and Sameshima, Tadashi, 4,705,628, Cl. 210-289.000.
Yoshida, Takao, 4,645,482, Cl. 493-189.000.
Yoshimoto, Masayuki; and Takagi, Toshiaki, 4,708,796, Cl. 210-321.800.

Terunuma, Hiroshi: *See*—
Wakabayashi, Hiroshi; Miyamoto, Hidenori; and Terunuma, Hiroshi, 4,668,070, Cl. 354-484.000.

Teruo, Hiyoshi; Koutaro, Mizuno; and Shigeru, Yamada, to Nippon Gakki Seizo Kabushiki Kaisha. Data input apparatus. 4,646,609, 3-3-87, Cl. 84-1.010.

Tervamaki, Jukka; and Jarvimaki, Kari, to Labsystems Oy. Diluting dosage device. 4,690,005, 9-1-87, Cl. 73-864.120.

Tervamaki, Jukka: *See*—
Kukka, Aarre; Tervamaki, Jukka; Nikulin, Heikki; and Vuorinen, Olavi, 4,684,250, Cl. 356-246.000.

Tervo, John N., to United States of America, Air Force. Termination load carrying device. 4,644,811, 2-24-87, Cl. 74-412.0TA.

Terwilleger, Arthur R.: *See*—
Stout, Daniel M.; Ellis, Michael W.; Terwilleger, Arthur R.; and Shankle, Robert D., Jr., 4,671,435, Cl. 222-646.000.

Terzian, Berj A., to Equitime, Inc. Hourly flagged digital time display. 4,671,673, 6-9-87, Cl. 368-82.000.

Terzian, Rouben T.: *See*—
Katzman, Allison W.; Terzian, Rouben T.; and Breslow, Jeffrey D., 4,674,169, Cl. 29-432.000.

Tesa S.A.: *See*—
Luthi, Walter, 4,679,332, Cl. 33-559.000.
Zanier, Adriano, 4,658,510, Cl. 33-172.00E.

Tesar, Roland: *See*—
Breyer, Karl; and Tesar, Roland, 4,707,278, Cl. 251-122.000.

Tesch, Helmut; Portugall, Michael; Stutz, Herbert; and Heinz, Gerhard, to BASF Aktiengesellschaft. Epoxy resin mixtures. 4,665,150, 5-12-87, Cl. 528-98.000.

Tesch, Klaus. Device for mutually centering and clamping two pipe bodies to be welded to one another. 4,712,720, 12-15-87, Cl. 228-49.300.

Teschemacher, Hansjorg; Brantl, Victor; Henschen, Agnes; and Lorspeich, Friedrich. Pharmacologically active peptides. 4,683,871, 7-21-87, Cl. 514-15.000.

Teschke, Gloria M. Pet feeder. 4,699,089, 10-13-87, Cl. 119-51.500.

Teschner, Eckart: *See*—
Hesse, Wolfgang; Settelmeyer, Richard; and Teschner, Eckart, 4,690,692, Cl. 51-293.000.

Tesco, Inc.: *See*—
Okada, Masao, 4,651,775, Cl. 137-625.410.

Tescom Corporation: *See*—
Hamernik, Edward L.; and Patterson, Daryll D., 4,700,735, Cl. 137-270.000.
Patterson, Daryll D., 4,693,267, Cl. 137-116.900.

Teshigawara, Touru: *See*—
Terao, Kazuo; Kubo, Tsutomu; Hyakutake, Nobuo; Tachibana, Hidekiyo; Hama, Jun-ichi; Teshigawara, Touru; and Kajimoto, Masashi, 4,707,428, Cl. 430-102.000.

Teshima, Daisuke: *See*—
Koizumi, Satoru; Teshima, Daisuke; and Katayama, Yoshio, 4,698,704, Cl. 363-74.100.

Teshima, Haruhito: *See*—
Tateyama, Norihiro; Yamazaki, Kazuo; Kato, Hiroshi; and Teshima, Haruhito, 4,707,635, Cl. 313-466.000.

Teshima, Hitoshi: *See*—
Shimozi, Kozi; and Teshima, Hitoshi, 4,698,213, Cl. 422-179.000.

Teshima, Manami; Tsuchino, Hisanori; Takeuchi, Hiroshi; and Shimada, Fumio, to Konishiroku Photo Industry Co., Ltd. Method for reading out a radiographic image. 4,654,533, 3-31-87, Cl. 250-484.100.

Teshima, Minoru: *See*—
Kikuchi, Hiroshi; Teshima, Minoru; Ishimizu, Hideaki; and Kawasaki, Hiroyoshi, 4,645,277, Cl. 339-17.01 M.

Teshima, Nobue: *See*—
Kato, Yasuyoshi; Teshima, Nobue; Ohta, Masao; and Konishi, Kunihiko, 4,711,872, Cl. 502-328.000.

Teshima, Tohru; Funaoka, Chihiro; and Robert, Pierre H., to Regie Nationale des Usines Renault; and Stanley Electric Co., Ltd. Display unit of speedometer for automobile. 4,647,901, 3-3-87, Cl. 340-52.008.

Teshima, Tohru; Funaoka, Chihiro; and Robert, Pierre H., to Regie Nationale des Usines Renault; and Stanley Electric Co., Ltd. Display unit of fuel consumption meter for automobile. 4,647,902, 3-3-87, Cl. 340-52.00R.

Teshima, Toru: *See*—
Augello, Daniel; Robert, Pierre H.; Teshima, Toru; and Naito, Hidehiko, 4,663,718, Cl. 364-444.000.

Teshima, Toshio: *See*—
Iwamura, Yoshinari; Okimoto, Katsunori; Teshima, Toshio; Miyahara, Shinobu; Uchida, Shigetaka; Sera, Taizo; and Ozawa, Koichi, 4,646,977, Cl. 239-590.500.

Teshima, Tsunehiko, to Hitachi, Ltd. Tracking control system for a video tape recorder. 4,638,379, 1-20-87, Cl. 360-19.100.

Teske, Artur; and Klimmeck, Dietrich A. Apparatus for the inspection of combined read/write heads of data carrier disks in EDP installations. 4,639,097, 1-27-87, Cl. 350-507.000.

Teske, Duane R.; Senasack, Henry E., Jr.; and Wilkins, Mark, to Sundstrand Corporation. Ballscrew actuator. 4,637,272, 1-20-87, Cl. 74-424.80R.

Teske, John E.; Beckman, Curt D.; Warner, Thomas C.; and Pine, Kent A. Trash container. 4,676,431, 6-30-87, Cl. 232-43.100.

Teske, Lothar. Apparatus for stoking a combustor. 4,705,443, 11-10-87, Cl. 414-173.000.

Teske, Richard E.: *See*—
Eberhardt, H. Alfred; Brottman, Kalman; Evangelista, Richard A.; Teske, Richard E.; and Sulmone, Michael, 4,691,667, Cl. 123-633.000.

Teskin, Frederick M., to El Paso Products Company. Nucleation of propylene polymers. 4,704,421, 11-3-87, Cl. 524-287.000.

Teskin, Frederick M.: *See*—
Ficker, Harold K.; and Teskin, Frederick M., 4,684,683, Cl. 524-220.000.
Ficker, Harold K.; and Teskin, Frederick M., 4,692,489, Cl. 524-243.000.

Teslawski, Georg: *See*—
Turin, Paul S.; Teslawski, Georg; and Tight, Dexter C., Jr., 4,667,081, Cl. 215-121.0LV.

Tesler, Yosef G. One-piece luminous pacifier. 4,688,571, 8-25-87, Cl. 128-360.000.

Tesmann, Holger; Blum, Helmut; and Koester, Rita, to Henkel Kommanditgesellschaft auf Aktien. Phosphinic acid adducts with maleic acid semiesters, a process for their production and their use. 4,702,823, 10-27-87, Cl. 209-166.000.
Tesmann, Holger. *See*—
von Rybinski, Wolfgang; Tesmann, Holger; and Dobias, Bohuslav, 4,714,544, Cl. 209-167.000.
Tessiere, Jean-Marc. *See*—
Bernard, Jean-Claude; Chabrier, Patrick; Tahon, Bernard; Tessiere, Jean-Marc; and Ortega, Domingo, 4,639,929, Cl. 373-126.000.
Tessaro, Giuliana C.; Sastri, Vinod R.; and Narang, Subash C., to Polytechnic Institute of New York. Siloxane-containing polyimide coatings for electronic devices. 4,656,235, 4-7-87, Cl. 526-262.000.
Tessaro, Mario, to MATESS di Mario Tessaro. Self-locking binding particularly for cross-country skiing. 4,659,103, 4-21-87, Cl. 280-615.000.
Tessenske, Dennis J. *See*—
Lenertz, John L.; Tessenske, Dennis J.; and Ferrari, Ricky J., 4,636,130, Cl. 414-500.000.
Tesser, Godefridus I., and Claesen, Christianus A. A., to Stichting Katholieke Universiteit. Phosphorylating agent. 4,692,542, 9-8-87, Cl. 558-184.000.
Tessera, Giancarlo. *See*—
Ciacci, Franco; Pizzoferrato, Vincenzo; and Tessera, Giancarlo, 4,665,485, Cl. 364-200.000.
Tessier, Frederic G., to Shepherd Industries Limited. Self-contained blowback-type firing unit. 4,649,800, 3-17-87, Cl. 89-194.000.
Tessier, James R. *See*—
Roncek, Joseph A.; and Tessier, James R., 4,691,426, Cl. 29-402.180.
Tessier, Jean; and Demoute, Jean-Pierre, to Roussel Uclaf. Certain insecticidal cyclopropane carboxylic acid derivatives. 4,689,342, 8-25-87, Cl. 524-427.000.
Tessier, Jean; and Demoute, Jean-Pierre, to Roussel Uclaf. Resolution of hemiacetals and alcohols. 4,701,542, 10-20-87, Cl. 549-456.000.
Tessier, Jean. *See*—
Martel, Jacques; Tessier, Jean; and Demoute, Jean-Pierre, 4,642,372, Cl. 560-124.000.
Martel, Jacques; Tessier, Jean; and Teche, Andre, 4,658,043, Cl. 549-302.000.
Tessier, Robert. *See*—
Jensen, Dennis; and Tessier, Robert, 4,675,599, Cl. 324-158.00F.
Tessler, Martin M. *See*—
Solarek, Daniel B.; Jobe, Patrick G.; and Tessler, Martin M., 4,675,394, Cl. 536-43.000.
Solarek, Daniel B.; Jobe, Patrick G.; Tessler, Martin M.; Billmets, Robert L.; Lamb, Diane J.; and Tsai, John J., 4,703,116, Cl. 536-104.000.
Trzasko, Peter T.; Tessler, Martin M.; Trksak, Ralph; and Jarowenko, Wadym, 4,687,519, Cl. 106-211.000.
Tsai, John J.; and Tessler, Martin M., 4,673,707, Cl. 525-54.200.
Tessmer, Dieter. *See*—
Sutterlin, Norbert; Blitz, Hans-Dieter; Mager, Theodor; Jagsch, Karl-Heinz; and Tessmer, Dieter, 4,713,434, Cl. 526-62.000.
Testa, Douglas. *See*—
Estis, Leonard F.; Evans, Sean A.; and Testa, Douglas, 4,680,175, Cl. 424-85.000.
Evans, Sean A.; Terpinski, Eva A.; and Testa, Douglas, 4,710,376, Cl. 424-83.000.
Testa, Pierlugi, to Videocolor. Method and device for illuminating the face plate of a color television tube for formation of the screen. 4,707,092, 11-17-87, Cl. 354-1.000.
Testa, Raymond T. *See*—
Carter, Guy T.; Grzenstein, Michael; Goodman, Joseph J.; Borders, Donald B.; Maiese, William M.; and Testa, Raymond T., 4,705,688, Cl. 424-122.000.
Kirby, Jane P.; Fantini, Amedeo A.; Borders, Donald B.; Testa, Raymond T.; and Martin, John H. E. J., deceased, 4,650,765, Cl. 435-254.000.
Kirby, Jane P.; Borders, Donald B.; Lee, May D.; Maiese, William M.; Testa, Raymond T.; and Labeda, David P., 4,699,790, Cl. 424-117.000.
Lee, May D.; Martin, John H.; Borders, Donald B.; Yao, Raymond C.; and Testa, Raymond T., 4,677,071, Cl. 435-253.000.
Testi, Termano. *See*—
Merli, Gabriele; and Testi, Termano, 4,698,597, Cl. 328-163.000.
Testin, William J., to RCA Corporation. Grounding arrangement useful in a display apparatus. 4,636,867, 1-13-87, Cl. 358-245.000.
Testin, William J.; and French, Michael P., to RCA Corporation. Television power supply shutdown circuit. 4,641,064, 2-3-87, Cl. 315-411.000.
Testin, William J.; and Tults, Juri, to RCA Corporation. Muting system. 4,641,190, 2-3-87, Cl. 358-165.000.
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Testin, William J.; and Tults, Juri, to RCA Corporation. Television tuning system with AFT provisions. 4,689,685, 8-25-87, Cl. 358-19-.100.
Tetard, Claude. *See*—
Gerbaud, Claude; and Tetard, Claude, 4,652,330, Cl. 156-361.000.
Tetard, Roger. *See*—
David, Bernard; and Tetard, Roger, 4,648,857, Cl. 474-272.000.
David, Bernard; and Tetard, Roger, 4,696,228, Cl. 101-123.000.
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Holmstrom, Hakan, 4,643,094, Cl. 101-401.100.
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Tew, Claude E.; and Lewis, Adam J., Jr., to Texas Instruments Incorporated. Infrared imager. 4,686,373, 8-11-87, Cl. 250-578.000.
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Gilmer, William S., 4,705,542, Cl. 55-93.000.
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Huang, Wann-Sheng; and Hight, Margaret A., 4,645,002, Cl. 166-245.000.
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Livingston, David R., 4,642,380, Cl. 564-206.000.
Maddox, Jim, Jr., 4,667,740, Cl. 166-274.000.
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McDaniel, Kenneth G., 4,642,319, Cl. 521-175.000.
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McEntire, Edward E.; and Knifton, John F., 4,657,984, Cl. 525.340.000.
McEntire, Edward E.; and Sellstrom, Kathy B., 4,675,441, Cl. 564-135.000.
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Najjar, Mitri S., 4,654,164, Cl. 252-373.000.
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Sanderson, John R.; and Larkin, John M., 4,705,903, Cl. 568-922.000.
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Shen, Chin W., 4,702,317, Cl. 166-272.000.
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Valone, Frederick W., 4,647,589, Cl. 514-627.000.
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Vanderpool, Steven H., 4,698,427, Cl. 544-404.000.
Vasconcellos, Stephen R.; Najjar, Mitri S.; and Pascoe, James R., 4,657,702, Cl. 252-373.000.
Vasconcellos, Stephen R.; Najjar, Mitri S.; and Garcia, Ralph, 4,681,700, Cl. 252-373.000.
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Zimmerman, Robert L.; and Vanderpool, Steven H., 4,698,428, Cl. 544-404.000.
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Relis, Matityahu; and Ledbetter, William B., 4,666,389, Cl. 425-78.000.
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Texas College of Osteopathic Medicine. *See*—
Meyer, Steven D.; and Raven, Peter B., 4,640,277, Cl. 128-204.230.
Texas Eastern Drilling Systems, Inc.. *See*—
Hatten, James L., 4,685,895, Cl. 464-19.000.
Texas Industries, Inc.. *See*—
van der Lely, Cornelis, 4,651,512, Cl. 56-341.000.
Texas Instruments Incorporated. *See*—
Anderson, Daniel F., 4,691,301, Cl. 365-200.000.
Ang, Saw T.; and Curran, Patrick A., 4,707,721, Cl. 357-54.000.
Arjmand, Masud; and Doddington, George R., 4,667,340, Cl. 381-31.000.
Bartley, David H.; McEntee, Timothy J.; Oxley, Donald W.; and Thatte, Satish M., 4,660,130, Cl. 364-200.000.
Bayraktaroglu, Burhan, 4,673,958, Cl. 357-13.000.
Bayraktaroglu, Burhan, 4,692,791, Cl. 357-81.000.
Bayraktaroglu, Burhan, 4,706,041, Cl. 331-52.000.
Bean, Kenneth E., 4,663,648, Cl. 357-55.000.
Beggs, Louis C.; and D'Entremont, John R., 4,705,824, Cl. 361-24.000.
Bellay, Jeffrey D.; and Powell, Theo J., 4,710,931, Cl. 371-25.000.
Benbassat, Gerard V.; and Seram, Daniel, 4,700,322, Cl. 364-513.500.
Blankenship, Gene E.; Gonsalves, Edward M.; Kawate, Keith W.; Sacarisen, Stephen P.; Giolma, William H.; and Spanjol, Damir A., 4,666,582, Cl. 204-404.000.
Bond, Jeffrey C.; and Thaden, Robert C., 4,656,597, Cl. 364-518.000.
Borrello, Sebastian R., 4,654,686, Cl. 357-30.000.
Boulanger, Henry J., 4,638,721, Cl. 92-6.00D.
Boulanger, Henry J., 4,641,121, Cl. 337-380.000.
Bridges, Jeffrey M., 4,715,109, Cl. 437-200.000.
Bucksch, Walter, 4,686,602, Cl. 361-91.000.
Calenda, Ciro; Notaro, Giuseppe; and Boulanger, Henry, 4,689,599, Cl. 337-365.000.
Carvajal, Fernando D., 4,645,950, Cl. 307-415.000.
Carvajal, Fernando D.; and Trogolo, Joe R., 4,660,065, Cl. 357-27.000.
Chang, Christopher T., 4,665,508, Cl. 365-208.000.
Chang, Ki S.; Patrick, Michael W.; Sacarisen, Stephen P.; and Stambaugh, Mark A., 4,646,232, Cl. 364-200.000.
Charboneau, Thomas J.; and Kawate, Keith W., 4,716,492, Cl. 361-283.000.
Chatterjee, Pallab K.; and Shah, Ashwin H., 4,673,962, Cl. 357-23.600.
Chatterjee, Pallab K., 4,683,486, Cl. 357-23.600.
Chatterjee, Pallab K., 4,695,872, Cl. 357-75.000.
Chauvel, Gerard, 4,684,938, Cl. 340-747.000.
Childers, Jimmie D., 4,654,827, Cl. 365-201.000.
Childers, Jimmie D., 4,670,878, Cl. 371-21.000.
Chiu, Anthony M.; Allison, Mark D.; Jones, James W.; Trammell, Lyndale A.; and San Ho, Fock, 4,639,664, Cl. 324-73.0AT.
Choate, William C., 4,685,143, Cl. 382-25.000.
Christian, Donald J.; and Stachowicz, Michael J., 4,696,047, Cl. 382-8.000.
Chrobak, Michael J.; and Evans, Doyle R., 4,635,354, Cl. 29-622.000.

Chun, Jino, 4,701,633, Cl. 307-269.000.
Cline, James H.; and Chastain, David M., 4,665,506, Cl. 365-189.000.
Cochran, Michael J.; and Barnett, Howard S., 4,634,786, Cl. 364-200.000.
Cochran, Michael J., 4,680,701, Cl. 364-200.000.
Culley, Paul R., 4,646,077, Cl. 340-748.000.
Curran, Patrick A., 4,704,785, Cl. 427-110.000.
D'Arrigo, Sebastiano; Imondi, Giuliano; and Vergara, Sossio, 4,652,837, Cl. 331-111.000.
D'Arrigo, Sebastiano; and Smayling, Michael C., 4,669,177, Cl. 29-571.000.
D'Arrigo, Sebastiano; Imondi, Giuliano; and Vergara, Sossio, 4,716,322, Cl. 307-592.000.
Davis, Cecil J.; Johnson, Randall E.; and Spencer, John E., 4,654,106, Cl. 156-345.000.
Davis, Cecil J.; Spencer, John E.; Hockersmith, Dan T.; Hildenbrand, Randall C.; Brown, Frederick W.; and Kohan, Stanford P., 4,657,620, Cl. 156-345.000.
Davis, Cecil J.; Spencer, John E.; Johnson, Randall E.; Jucha, Rhett B.; Brown, Frederick W.; and Kohan, Stanford P., 4,659,413, Cl. 156-345.000.
Davis, Cecil J.; Carter, Duane E.; and Jucha, Rhett B., 4,685,999, Cl. 156-643.000.
Davis, Cecil J.; Matthews, Robert; and Hildenbrand, Randall C., 4,687,542, Cl. 156-643.000.
De Filippis, Pietro; Caleada, Ciro; Notaro, Giuseppe; and Boulanger, Henry, 4,696,579, Cl. 374-187.000.
DeFilippis, Pietro; Calenda, Ciro; and Notaro, Giuseppe, 4,706,152, Cl. 361-32.000.
D'Hont, Lodewijk J., 4,639,765, Cl. 358-19.000.
Doddington, George R.; and Secrest, Bruce G., 4,696,038, Cl. 381-38.000.
Doddington, George R., 4,696,039, Cl. 381-46.000.
Doddington, George R.; and Papamichalis, Panos E., 4,696,040, Cl. 381-46.000.
Doering, Robert R., 4,661,374, Cl. 427-88.000.
Doering, Robert R.; Duane, Michael P.; and Armstrong, Gregory J., 4,677,739, Cl. 29-576.00B.
Doering, Robert R.; and Armstrong, Gregory J., 4,696,092, Cl. 437-5.000.
Domogalla, John C., 4,665,326, Cl. 307-362.000.
Douglas, Monte A.; and Bonifield, Thomas D., 4,654,112, Cl. 156-643.000.
Douglas, Monte A., 4,675,073, Cl. 156-643.000.
Douglas, Monte A., 4,690,729, Cl. 156-643.000.
Douglas, Monte A., 4,702,795, Cl. 156-643.000.
Douglas, Monte A., 4,711,698, Cl. 156-643.000.
Doyle, David W., 4,660,048, Cl. 343-700.0MS.
Dudley, Dana; and Hefner, Charles C., 4,667,239, Cl. 358-166.000.
Enomoto, Osaomi; and Komatsuzaki, Katsuo, 4,708,768, Cl. 437-228.000.
Esquivel, Agerico L., 4,698,900, Cl. 437-52.000.
Essig, Daniel L.; Pham, Luat Q.; Sexton, Joe F.; and Tubbs, Graham S., 4,646,257, Cl. 364-760.000.
Ezura, Toyokazu; Katsumata, Fujio; and Ikeya, Kiyokazu, 4,715,823, Cl. 439-267.000.
Fife, Robert M.; Ross, Dennis; and Shaw, Richard F., 4,685,031, Cl. 361-413.000.
Fischer, Clifford W., 4,654,613, Cl. 333-256.000.
Flinchbaugh, Bruce E., 4,672,546, Cl. 364-421.000.
Flinchbaugh, Bruce E., 4,685,070, Cl. 364-522.000.
Flinchbaugh, Bruce E., 4,703,426, Cl. 364-421.000.
Florence, James M.; and Allen, John B., 4,672,439, Cl. 358-113.000.
Franke, David W.; and Hall, Carroll R., 4,710,763, Cl. 340-723.000.
Frazier, Gary A.; Frensley, William R.; and Reed, Mark A., 4,705,361, Cl. 350-355.000.
Fuller, Clyde R.; Pollack, Gordon P.; Eklund, Robert H.; and Monahan, Dave, 4,659,426, Cl. 156-643.000.
Fulton, Temple L.; and Perkins, William O., 4,680,753, Cl. 370-85.000.
Gabriel, Nancy J. S.; Yuan, Han-Tzong; and Tiku, Shiban K., 4,672,414, Cl. 357-34.000.
Garcia, Felix, Jr., 4,641,026, Cl. 250-229.000.
Garner, Ricky B.; Payne, Thomas H.; and Tranjan, Farid M., 4,642,877, Cl. 29-571.000.
Garth, Simon C. J.; and Nixon, William C., 4,658,137, Cl. 250-310.000.
Gerson, Philips M., 4,703,298, Cl. 337-102.000.
Gonsalves, Edward M.; Sogge, Dale R.; and Charboneau, Thomas J., 4,662,232, Cl. 73-866.500.
Goudie, Kathleen M., 4,695,962, Cl. 364-513.500.
Goudie, Kathleen M., 4,696,042, Cl. 381-51.000.
Grenier, Aime J.; and McBride, Lyle E., 4,654,617, Cl. 335-262.000.
Guttag, Karl M.; Pinkam, Ray; and Novak, Mark F., 4,660,156, Cl. 364-521.000.
Guttag, Karl M.; and McDonough, Kevin C., 4,694,391, Cl. 364-200.000.
Haefling, James F.; Pritchard, James W.; and Stierman, Roger J., 4,691,854, Cl. 228-4.500.
Hahn, Larry A.; and Havemann, Robert H., 4,674,173, Cl. 29-576.00B.
Harshaw, Robert C., 4,696,012, Cl. 372-99.000.
Havemann, Robert H., 4,635,344, Cl. 29-576.00W.
Havemann, Robert H., 4,703,554, Cl. 437-31.000.
Havemann, Robert H., 4,706,378, Cl. 437-24.000.
Heilveil, Andrew; VanAken, Jerry R.; Guttag, Karl M.; Redwine, Donald J.; Pinkham, Raymond; and Novak, Mark F., 4,639,890, Cl. 364-900.000.
Henderson, Alva E., 4,658,424, Cl. 381-51.000.
Hester, Richard K.; and Tan, Khen-Sang, 4,638,451, Cl. 364-900.000.
Heston, David D.; Lehmann, Randall E.; and Seymour, David J., 4,658,220, Cl. 330-277.000.
Hewlett, Frank W., 4,656,498, Cl. 357-50.000.
Hingorany, Premkumar, 4,673,967, Cl. 357-70.000.
Hockersmith, Dan T.; and Gilbert, Joe W., 4,661,196, Cl. 156-345.000.
Hofer, Dean A.; Carlson, Daniel J.; and Pecak, Matthew L., 4,697,192, Cl. 343-895.000.
Holloway, Thomas C.; Tang, Thomas F.; Wei, Che-Chia; Haken, Roger A.; and Bell, David A., 4,657,628, Cl. 156-643.000.
Hornbeck, Larry J., 4,662,746, Cl. 350-269.000.
Hornbeck, Larry J., 4,710,732, Cl. 332-7.610.
Hubbins, Stephen J.; England, David G.; Szczepanek, Andre; and Norvall, David, 4,698,753, Cl. 364-200.000.
Hwang, Yin-Chao; and Powell, Theo J., 4,698,588, Cl. 324-73.00R.
Hynecek, Jaroslav, 4,649,430, Cl. 358-213.000.
Hynecek, Jaroslav, 4,656,503, Cl. 358-44.000.
Hynecek, Jaroslav, 4,660,090, Cl. 358-213.000.
Hynecek, Jaroslav, 4,668,971, Cl. 357-24.000.
Hynecek, Jaroslav, 4,673,963, Cl. 357-24.000.
Hynecek, Jaroslav, 4,679,212, Cl. 377-58.000.
Hynecek, Jaroslav, 4,708,766, Cl. 156-643.000.
Inoue, Shinji, 4,707,626, Cl. 307-625.000.
Johnson, Larry K., 4,700,032, Cl. 200-159.00B.
Johnson, Randall E.; and Spencer, John E., 4,657,617, Cl. 156-345.000.
Johnson, Randall E.; Peters, Louis E.; and Simmons, Lowell E., 4,657,621, Cl. 156-345.000.
Jones, Gary W., 4,675,716, Cl. 357-71.000.
Keenan, Joseph A.; and Reinberg, Alan R., 4,676,661, Cl. 368-156.000.
Keith, William C., 4,713,939, Cl. 62-6.000.
Kelly, John C., 4,649,413, Cl. 357-41.000.
Kim, Bumman; and Tserng, Hua Q., 4,641,161, Cl. 357-22.000.
Kottman, Rickie A.; Terrill, Robert E.; and Wise, Ann E., 4,685,975, Cl. 134-33.000.
Lam, Hon W.; and Sundaresan, Ravishankar, 4,656,731, Cl. 29-576.00J.
Landes, James L., 4,696,425, Cl. 228-1.100.
Lange, Thomas R., 4,665,560, Cl. 455-249.000.
Laws, Gerald E.; and Diefendorff, Keith E., 4,646,298, Cl. 371-16.000.
Laws, Gerald E., 4,670,846, Cl. 364-490.000.
LeToumelin, Loic; Tollon, Franck; and Leduc, Yves, 4,645,881, Cl. 379-252.000.
Levine, Jules D.; Jensen, Millard J.; and Haney, Ronald E., 4,691,076, Cl. 136-250.000.
Lin, Kun-Shan; Goudie, Kathleen M.; and Frantz, Gene A., 4,685,135, Cl. 381-52.000.
Lisauskas, Richard J., 4,646,195, Cl. 361-25.000.
Lou, Perry W., 4,656,369, Cl. 307-297.000.
Maan, Mohammed N., 4,689,807, Cl. 377-57.000.
Magar, Surendar S.; and Gass, Wanda K., 4,677,586, Cl. 364-900.000.
Magar, Surendar S.; Essig, Daniel L.; Simpson, Richard D.; and Caudel, Edward R., 4,713,748, Cl. 364-200.000.
Magar, Surendar S.; and Essig, Daniel L., 4,713,749, Cl. 364-200.000.
Malhi, Satwinder; and Baglee, David A., 4,641,173, Cl. 357-51.000.
Malhi, Satwinder, 4,662,061, Cl. 29-576.00B.
Malhi, Satwinder D. S., 4,677,735, Cl. 29-571.000.
Mand, Satwinder D. S., 4,689,871, Cl. 437-40.000.
Malhi, Satwinder S., 4,651,184, Cl. 357-23.600.
Marin, James S.; and Tan, Khen-Sang, 4,654,815, Cl. 364-608.000.
Maxwell, James W., 4,698,024, Cl. 439-62.000.
Maytum, Michael J.; and Lear, Anthony, 4,673,844, Cl. 315-200.00R.
McAdams, Hugh P., 4,638,182, Cl. 307-270.000.
McAdams, Hugh P., 4,716,320, Cl. 307-530.000.
McAulay, Alastair D., 4,686,532, Cl. 342-195.000.
McDavid, James M., 4,641,417, Cl. 29-571.000.
McDavid, James M., 4,665,295, Cl. 219-121.01.M.
McDavid, James M., 4,672,419, Cl. 357-71.000.
McDonough, Kevin C., 4,651,275, Cl. 364-200.000.
McElroy, David J., 4,634,901, Cl. 307-530.000.
McElroy, David J., 4,658,377, Cl. 365-149.000.
McElroy, David J., 4,687,951, Cl. 307-269.000.
McElroy, David J., 4,701,885, Cl. 365-189.000.
McLevige, William V.; Yuan, Han-Tzong; Duncan, Walter M.; and Doerbeck, Friedrich H., 4,654,960, Cl. 29-576.00B.
McLevige, William V., 4,711,701, Cl. 437-41.000.
McPherson, Joe W., 4,650,922, Cl. 174-52.0FP.
McPherson, Joe W., 4,700,215, Cl. 357-71.000.
Millis, Edwin G.; Bimer, Thomas C.; and Lewis, Alton D., 4,636,128, Cl. 414-217.000.
Mitchell, Allan T.; and Paterson, James L., 4,713,142, Cl. 156-653.000.
Narishima, Wataru; and Takeuchi, Shoji, 4,703,160, Cl. 235-1.00D.
Norwood, Roger D.; and Reddy, Chitranjan, 4,636,987, Cl. 365-208.000.

Norwood, Roger D.; and Reddy, Chitranjan, 4,656,613, Cl. 365-208.000.
Notaro, Giuseppe; and Attena, Giancarlo, 4,664,429, Cl. 292-201.000.
Novak, Mark F.; and Guttag, Karl M., 4,663,735, Cl. 364-900.000.
Novak, Mark F.; Guttag, Karl M.; and Redwine, Donald J., 4,688,197, Cl. 365-230.000.
Orcutt, John W., 4,712,129, Cl. 357-84.000.
Ott, Granville E., 4,638,309, Cl. 340-752.000.
Ott, Granville E., 4,661,915, Cl. 364-513.500.
Ott, Granville E., 4,680,579, Cl. 340-783.000.
Oxley, Donald W.; Bartley, David H.; and McEntee, Timothy J., 4,716,524, Cl. 364-200.000.
Paganelli, Jude V., 4,645,9[illegible], Cl. 310-338.000.
Palmer, Charles D., 4,646,028, Cl. 330-277.000.
Patel, Pravin P.; and Norwood, Roger D., 4,685,089, Cl. 365-233.000.
Paterson, James L.; and Haken, Boger A., 4,697,330, Cl. 437-42.000.
Pavio, Anthony M.; and Anderson, Kevin J., 4,658,440, Cl. 455-324.000.
Fejouhy, Radi; Nield, Joseph G., Jr.; D'Entremont, John R.; Beggs, Louis C.; and Rotulo, Fabrizio, 4,713,717, Cl. 361-26.000.
Peterson, Robert K., 4,688,150, Cl. 361-403.000.
Pinkham, Raymond, 4,636,986, Cl. 365-195.000.
Pinkham, Raymond; Valente, Fredrick A.; Guttag, Karl M.; and Vanaken, Jerry R., 4,648,077, Cl. 365-240.000.
Pinkham, Raymond; and Valente, Fredrick A., 4,667,313, Cl. 365-240.000.
Pinkham, Raymond, 4,683,555, Cl. 365-215.000.
Poland, Sid, 4,665,500, Cl. 364-760.000.
Porter, Vernon R.; and Baber, Samuel C., 4,673,592, Cl. 427-53.100.
Possley, Glen G.; and Wilson, Earl C., 4,692,787, Cl. 357-59.000.
Powell, Theo J.; and Hwang, Yin-Chao, 4,701,921, Cl. 371-23.000.
Powell, Theo J.; Bellay, Jeffrey D.; Daniels, Martin D.; and Hwang, Yin-Chao, 4,710,933, Cl. 371-25.000.
Provence, John D.; Brown, Frederick W.; and Jones, John I., 4,695,700, Cl. 219-121.0PD.
Purdes, Andrew J.; and Smith, Gregory C., 4,681,653, Cl. 156-614.000.
Purdes, Andrew J., 4,699,085, Cl. 118-725.000.
Rajasekaran, Periagaram K.; Doddington, George R.; and Schalk, Thomas B., 4,712,242, Cl. 381-42.000.
Reddy, Chitranjan, 4,636,657, Cl. 307-269.000.
Redwine, Donald J.; and Pinkham, Raymond, 4,689,741, Cl. 364-200.000.
Reid, Lee R., 4,660,066, Cl. 357-30.000.
Reimer, Jay B.; and Douron, Robert D., 4,704,696, Cl. 364-513.500.
Renner, Karl H.; and Morton, Alec J., 4,686,644, Cl. 364-724.000.
Renner, Karl H.; and Morton, Alec J., 4,695,970, Cl. 364-724.000.
Renner, Karl H.; and Morton, Alec J., 4,700,323, Cl. 364-724.000.
Rice, Joseph A., Jr.; McGregor, Douglas D.; Colegrove, Forrest D.; and Marton, Bela, 4,697,519, Cl. 102-406.000.
Robinson, Eugene A.; Sharpe, Claude A.; Iseli, James W.; Valella, Julio E.; and Liu, Kuen-Yu, 4,651,282, Cl. 364-443.000.
Roll, Walter F.; and Thedford, Anthony R., 4,658,140, Cl. 250-347.000.
Roll, Walter F., 4,659,932, Cl. 250-347.000.
Roll, Walter F.; and Campbell, Michael, 4,690,486, Cl. 350-6.600.
Rountree, Robert N.; and Herndon, Troy H., 4,692,781, Cl. 357-23.130.
Ruszczyk, Vicki V.; and Ting, Youn H., 4,646,051, Cl. 337-107.000.
Sacarisen, Stephen P.; and Fanini, Otto N., 4,641,308, Cl. 371-16.000.
Sallas, John J., 4,637,002, Cl. 367-190.000.
Sallas, John J.; and Trevino, Toby R., 4,670,863, Cl. 367-190.000.
Schiebel, Richard A., 4,658,277, Cl. 357-24.000.
Schmid, Hermann, 4,697,784, Cl. 249-119.000.
Schrader, Elliott G., 4,682,369, Cl. 455-127.000.
Scott, Bentley N., 4,642,580, Cl. 331-117.00D.
Scott, Bentley N., 4,677,691, Cl. 455-318.000.
Scott, Warner C., 4,680,805, Cl. 382-22.000.
Scott, Warner C., 4,701,960, Cl. 382-3.000.
Shah, Ashwin H., 4,685,087, Cl. 365-227.000.
Shu, Jing S.; Covington, Johnny P.; Lee, Wei; Venable, Larry G.; and Varnell, Gilbert L., 4,657,843, Cl. 430-325.000.
Simmons, Arturo; Walsh, Shawn T.; and Roberts, Charles G., 4,714,949, Cl. 357-23.130.
Slaughter, John E.; and Terrell, Robert B., 4,706,120, Cl. 358-103.000.
Spencer, John E.; Johnson, Randall E.; Hockersmith, Dan T.; Hildenbrand, Randall C.; Jones, John I.; and Jaspersen, William S., 4,657,618, Cl. 156-345.000.
Spinelli, Thomas S.; and Deras, Edward J., 4,706,812, Cl. 206-332.000.
Stambaugh, Mark A., 4,715,052, Cl. 377-108.000.
Steck, Christopher W., 4,677,584, Cl. 364-784.000.
Stiegler, Harvey J., 4,692,638, Cl. 307-449.000.
Strasser, Werner, 4,633,579, Cl. 29-622.000.
Strong, Bobby D.; Martin, Robert C.; Ovens, Kevin M.; and Salzman, James F., 4,704,548, Cl. 307-456.000.
Sutton, Walter T.; Craft, Randy; and Kummer, Stanley F., 4,672,231, Cl. 307-118.000.
Swensen, Michael W.; Martin, William C.; and Kight, Henry H., 4,644,443, Cl. 361-384.000.
Szczepanek, Andre; and Hubbins, Stephen, 4,674,086, Cl. 370-86.000.
Tachibana, Tadashi; Reddy, Chitranjan N.; and Hong, Ngai H., 4,653,030, Cl. 365-222.000.
Takamizawa, Takashi; and Hashizume, Motomu, 4,646,265, Cl. 365-104.000.
Tang, Thomas E.; Wei, Che-Chia; Haken, Roger A.; and Holloway, Thomas C., 4,676,866, Cl. 156-643.000.
Tang, Thomas E.; Wei, Che-Chia; Haken, Roger A.; Holloway, Thomas C.; and Bell, David A., 4,690,730, Cl. 156-643.000.
Teng, Clarence W.; and Haken, Roger A., 4,656,732, Cl. 29-591.000.
Teng, Clarence W., 4,660,278, Cl. 29-576.00W.
Tew, Claude E., 4,659,928, Cl. 250-332.000.
Tew, Claude E.; and Lewis, Adam J., Jr., 4,684,812, Cl. 250-578.000.
Tew, Claude E.; and Lewis, Adam J., Jr., 4,686,373, Cl. 250-578.000.
Thaden, Robert C.; Van Aken, Jerry; Bond, Jeffrey C.; and Albachten, Rudy, 4,654,804, Cl. 364-520.000.
Thaden, Robert C.; Bond, Jeffrey C.; Moravec, John V.; Guttag, Karl M.; Pinkham, Raymond; and Novak, Mark, 4,656,596, Cl. 364-521.000.
Thaden, Robert C.; and Bond, Jeffrey C., 4,660,155, Cl. 364-521.000.
Thaden, Robert C., 4,665,495, Cl. 364-518.000.
Thaden, Robert C.; and Watts, Mark W., 4,691,289, Cl. 364-518.000.
Thatte, Satish; and Oxley, Donald W., 4,695,949, Cl. 364-200.000.
Thompson, Craig W.; and Ross, Kenneth M., 4,688,195, Cl. 364-300.000.
Tigelaar, Howard L.; and Riemenschneider, Bert R., 4,685,197, Cl. 437-195.000.
Tigelaar, Howard L.; Riemenschneschneider, Bert R.; and Paterson, James L., 4,713,677, Cl. 357-23.500.
Tran, Bao G.; McAdams, Hugh P.; and Childers, Jimmie D., 4,658,382, Cl. 365-203.000.
Tran, Bao G., 4,661,930, Cl. 365-201.000.
Traynor, Kevin, 4,689,792, Cl. 371-38.000.
Traynor, Kevin, 4,710,934, Cl. 371-38.000.
Tregilgas, John H.; and Gnade, Bruce E., 4,675,087, Cl. 204-141.500.
Tregilgas, John H.; and Polgreen, Thomas L., 4,684,415, Cl. 437-228.000.
Tubbs, Graham S.; Daniels, Martin D.; Schaaf, Robert; and Walther, Ronald, 4,667,339, Cl. 377-79.000.
Tubbs, Graham S., 4,700,088, Cl. 307-485.000.
Tuvell, James A.; and Smayling, Michael C., 4,695,979, Cl. 365-185.000.
Tuvell, James A.; and Smayling, Michael C., 4,715,014, Cl. 365-185.000.
Vergara, Sossio; D'Arrigo, Sebastiano; and Imondi, Giuliano, 4,706,011, Cl. 323-274.000.
Vilimek, Vaclav F., 4,641,539, Cl. 73-862.670.
Wason, Cameron P., 4,654,836, Cl. 367-190.000.
Watson, Milton R.; Seeberger, F. G., Jr.; and Lockerd, Robert M., 4,654,514, Cl. 235-385.000.
Weber, Richard M., 4,682,669, Cl. 181-114.000.
Wendling, Robert W.; Kurtz, John W.; and Perez, Juan M., 4,691,886, Cl. 248-183.000.
Wetterau, Lin C., Jr., 4,654,818, Cl. 364-900.000.
White, Lionel S., Jr.; and Zivitz, Maury, 4,642,784, Cl. 364-551.000.
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Tharman, Paul A., to Briggs & Stratton Corporation. Low oil warning circuit, 4,684,917, 8-4-87, Cl. 340-59.000

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Thatcher, Alan J. Molded container with integral spout, 4,653,999, 3-17-87, Cl. 222-153.000

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Thatcher, James L., and Lindquist, Per E., to SI Handling Systems, Inc. Driverless vehicle with floating mounted substrate, and precision stop/locator assembly, 4,646,649, 3-3-87, Cl. 104-166.000

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Thi, Paul J., and Mora, Chanakya, to Aluminium Company of America. Bayer process for producing aluminum hydroxide having improved whiteness, 4,676,959, 6-30-87, Cl. 423-130.000

Thi, Paul J., and Mora, Chanakya, to Aluminum Company of America. Process for lowering level of contaminants in Bayer liquor by membrane filtration, 4,678,477, 7-7-87, Cl. 23-305.00A

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Theilacker, Klaus, to MAN-Roland Druckmaschinen Aktiengesellschaft. Liquid application system and apparatus for a rotary printing machine. 4,646,638, 3-3-87, Cl. 101-349.000.

Theilacker, Klaus, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Web threading apparatus, particularly for threading of a rotary printing machine, or similar paper handling system. 4,706,862, 11-17-87, Cl. 226-92.000.

Theilacker, Klaus, to M.A.N. Roland Druckmaschinen Aktiengesellschaft. System for lateral transport of liquid along a printing machine roller. 4,711,171, 12-8-87, Cl. 101-148.000.

Theilacker, Wolfgang. *See*—
Dietrich, Kurt; Stihler, Axel; and Theilacker, Wolfgang, 4,709,135, Cl. 219-303.000.

Theiler, Richard F. *See*—
Caswell, Michael L.; Corr, James J.; Dobrovolny, Mark S.; Lander, Lynn H.; Narath, William R.; and Theiler, Richard F., 4,695,395, Cl. 252-121.000.

Theiling, Ernst-August. *See*—
Walz, Gerd; and Theiling, Ernst-August, 4,644,036, Cl. 525-386.000.

Theiling, Louis F., Jr. *See*—
Meschke, Debra J., Hoy, Kenneth L.; and Theiling, Louis F., Jr., 4,638,029, Cl. 524-430.000.

Theimer, Ken. *See*—
Geller, Edward; Kirby, Mike; Mercer, John; O'Hanlon, Tom; Reichman, Jim; Theimer, Ken; and Svendsen, Robert, 4,674,579, Cl. 175-45.000.

Theimer, Siegfried. Printing frame. 4,674,868, 6-23-87, Cl. 355-122.000.

Theis, Alan T. *See*—
Sharp, Larry D.; and Theis, Alan T., 4,663,539, Cl. 307-38.000.

Theis, Peter F., to Morgan Industries, Inc. Programmed conversation recording system. 4,692,817, 9-8-87, Cl. 360-12.000.

Theis, Ralph W. Method for induced flow recovery of shallow crude oil deposits. 4,688,637, 8-25-87, Cl. 166-245.000.

Theisen, Peter J. *See*—
Bielinski, Ralph F.; Jaeschke, James R.; Krstic, Slobodan; Fiber, Earl T.; and Theisen, Peter J., 4,642,481, Cl. 307-252.0UA.

Theisen, William M.; and Wiseman, Charles D., to BOC Group, Inc., The. Method of fabricating a freestanding semiconductor connection. 4,702,003, 10-27-87, Cl. 29-840.000.

Theisen, William M. *See*—
Wiseman, Charles D.; and Theisen, William M., 4,711,791, Cl. 427-96.000.

Theiss, Edmund. *See*—
Ehrler, Ernst; Eichlseder, Martin; and Theiss, Edmund, 4,715,806, Cl. 425-553.000.

Theiss, John J.; and Durst, Paul T., to Temp. Systems, Inc. Fail safe safety control device. 4,691,097, 9-1-87, Cl. 219-513.000.

Theiss, Scott M. *See*—
Muller, Gary R.; Theiss, Scott M.; Brown, James E., Jr.; and Lawson, Bobby R., 4,715,324, Cl. 122-381.000.

Theissen, Friedel; and Fieseler, Heinrich, to Messer Griesheim GmbH. Double walled insulated container for storing low boiling liquified gases. 4,705,189, 11-10-87, Cl. 220-465.000.

Theissen, Mario. *See*—
Bonisch, Heinz-Jurgen; Brandl, Gerhard; Noor, Sybille; Oehling, Karl-Heinz; Riedl, Walter; Theissen, Mario; Wodiczka, Ernst; and Macht, Alwin, 4,691,670, Cl. 123-52.0MF.

Theissen, Robert J., to Rhone-Poulenc Inc. 2-nitro-5-(substituted phenoxy) benzoate esters of hydroxyalkanoic acids and derivatives thereof as herbicides. 4,667,052, 5-19-87, Cl. 560-21.000.

Theissen, Robert J., to Rhone-Poulenc Agrochimie. Substituted phenoxybenzoic acids and derivatives thereof as herbicides. 4,681,622, 7-21-87, Cl. 71-108.000.

Theissen, Wolfgang. *See*—
Block, Franz-Rudolf; Theissen, Wolfgang; Basler, Urs; and Pesovic, Branislav, 4,708,191, Cl. 164-150.000.

Theisstg, Werner; and Rumpp, Gerhard, to Hilti Aktiengesellschaft. Dust guard cap for a hand-held drilling device. 4,664,394, 5-12-87, Cl. 279-1.0ME.

Theissig, Werner. *See*—
Heine, Helmut A.; and Theissig, Werner, 4,675,919, Cl. 2-410.000.
Lippacher, Wolfgang; and Theissig, Werner, 4,669,551, Cl. 173-109.000.

Thelander, Finn. *See*—
Nodskov, Preben; and Thelander, Finn, 4,663,899, Cl. 52-109.000.

Thelen, Franz, to Steag AG. Process for the reduction of NO_x in fluidized-bed furnaces. 4,648,331, 3-10-87, Cl. 110-342.000.

Thelen, Gerhard A.; Tse, Yan H.; and Murphy, Wayne H., to Consolidated Rail Corporation. Wheel checking assembly. 4,659,266, 4-21-87, Cl. 410-10.000.

Thelen, Robert L. *See*—
Rouse, Michael W.; Thelen, Robert L.; and Morrison, John, 4,714,201, Cl. 241-24.000.

Thelen, Werner, to G. Siempelkamp GmbH & Co. Conveyor for particleboard-making apparatus. 4,681,523, 7-21-87, Cl. 425-168.000.

Thelen, Werner, to G. Siempelkamp GmbH & Co. Method of conveying particulate mats. 4,693,860, 9-15-87, Cl. 264-320.000.

Thelin, Anders G. *See*—
Schachner, Herbert; Tippmann, Heinz; Lux, Benno; Sternberg, Klas G.; and Thelin, Anders G., 4,707,384, Cl. 427-249.000.

Themont, Jean-Pierre. *See*—
Goepfert, Serge P. P.; Renault, Serge A. M.; Roger, Francoise M. M.; Themont, Jean-Pierre; and Vachet, Andre J., 4,683,153, Cl. 428-1.000.

Thenaisie, Jacky. *See*—
Dubertret, Alain; Rizzo, Gilles; Bargain, Raymond; De Mendo, Michel; and Thenaisie, Jacky, 4,687,269, Cl. 439-161.000.

Thenner, Gunther, to U.S. Philips Corporation. Method and device for aligning and straightening flexible, insulated conductors, 4,654,967, 4-7-87, Cl. 29-860.000.

Theobald, David R. *See*—
Taylor, Hugh F.; and Theobald, David R., 4,709,686, Cl. 124-67.000.

Theocharous, Evangelos, to Central Electricity Generating Board of Sudbury House. Optical fiber apparatus and method for remotely measuring an external parameter from a monitoring position, 4,713,538, 12-15-87, Cl. 250-227.000.

Theodor Groz & Sohne & Ernst Beckert Nadelfabriken Commandit-Gesellschaft. *See*—
Mayer, Harald, 4,656,841, Cl. 66-121.000.

Theodor Hymmen, Firma. *See*—
de Brock, Raoul, 4,665,819, Cl. 100-154.000.
Pankoke, Werner, 4,693,177, Cl. 100-154.000.

Theodoras, James T., II. *See*—
Platt, Michael J.; Theodoras, James T., II; and Ray, Rando, 4,709,244, Cl. 346-140.0OR.

Theodore, Ares N.; and Killgoar, Paul C., Jr., to Ford Motor Company. Environmentally durable elastomer composition with excellent low temperature dynamic properties. 4,645,791, 2-24-87, Cl. 524-490.00.

Theodore, Ares N. *See*—
Chattha, Mohinder S.; and Theodore, Ares N., 4,710,543, Cl. 525-161.000.
Chattha, Mohinder S.; and Theodore, Ares N., 4,713,427, Cl. 525-510.000.

Theodore Sweeney & Company, Inc. *See*—
Sweeney, Theodore J., 4,693,652, Cl. 411-23.000.

Theodorides, Panos. Storage unit. 4,666,202, 5-19-87, Cl. 294-161.00.

Theodoropulos, Spyros, to Viomedics Inc. Novel oxazine-azine and thiazine urea chromophors as fluorescent labels. 4,714,763, 12-22-87, Cl. 544-31.000.

Theodoulou, Sotos M. *See*—
Maczuszenko, Andrzej; Theodoulou, Sotos M.; and Rumsey, John, 4,692,017, Cl. 355-3.0DD.

Theofanis, Nicholas D. *See*—
Stemler, J. Robert; Klingensmith, James D.; Meuzener, Craig C.; Kulicki, John M.; and Theofanis, Nicholas D., 4,709,435, Cl. 14-73.000.

Theofilopoulos, Argyrios N. *See*—
Altman, Amnon; Theofilopoulos, Argyrios N.; Lerner, Richard A.; and Dixon, Frank J., 4,636,463, Cl. 435-7.000.

Thepault, Claude, to Crouzet S.p.A. Connection device for electrical component. 4,639,059, 1-27-87, Cl. 339-17.00F.

Thepenier, Catherine. *See*—
Adet, Bruno; Gudin, Claude; and Thepenier, Catherine, 4,685,30, Cl. 435-284.000.

Theracom Corporation. *See*—
Sargent Clement D., 4,675,930, Cl. 5-458.000.

Theragenics Corporation. *See*—
Russell, John L., Jr.; and Noonan, Denise J., 4,675,150, Cl. 376-340.000.
Russell, John L., Jr.; and Coggins, David N., 4,702,228, Cl. 128-1.200.

Theret, Jean-Marc C. F. *See*—
Fredholm, Allan; Davidson, James H.; Khan, Tasadduq; and Theret, Jean-Marc C. F., 4,639,280, Cl. 148-404.000.

Theriault, David G. *See*—
Smith, John R.; Kenny, Thomas J.; Graham, Kingsley F.; Neuner, James A.; Bauman, Douglas A.; Thompson, Timothy T.; Wassel, William W.; Rao, Dhulipala M.; and Theriault, David G., 4,642,636, Cl. 340-870.040.

Theriault, John P. *See*—
Cahill, Richard F.; Eck, Jeffrey A.; Schwantz, Gerald L.; Theriault, John P.; Turek, Philip A.; Udd, Eric; Wagoner, Raymond E.; and Wasser, Keith H., 4,712,306, Cl. 33-304.000.

Theriault, Kenneth T., to Lori Corporation. Key-in-knob cylinder replacement system. 4,672,828, 6-16-87, Cl. 70-373.000.

Theriault, Robert E.; and Hogeboom, John G., to Northern Telecom Limited. Double polysilicon integrated circuit process. 4,679,302, 7-14-87, Cl. 29-571.000.

Therkorn, Jens. Couch of adjustable inclination for body extension. 4,638,793, 1-27-87, Cl. 128-71.000.
Therm-O-Disc, Incorporated. See—
Ferroni, C. Paul; Linton, Jonathan L.; and Schmitt, Donald J., 4,669,182, Cl. 29-622.000.
Therma-Wave, Inc.. See—
Rosencwaig, Allan; and Opsal, Jon, 4,634,290, Cl. 374-5.000.
Rosencwaig, Allan; and Smith, Walter L., 4,636,088, Cl. 374-5.000.
Rosencwaig, Allan; and Opsal, Jon, 4,679,946, Cl. 374-5.000.
Thermahaby, S.A.. See—
Cappe, Alain; and Nabet, Claude, 4,716,278, Cl. 219-521.000.
Thermacore, Inc.. See—
Eastman, George Y., 4,696,010, Cl. 372-34.000.
Eastman, George Y., 4,697,205, Cl. 357-82.000.
Ernst, Donald M.; and Toth, Jerome E., 4,683,940, Cl. 165-32.000.
Thermal Concepts, Inc.. See—
Bingham, Grady A., 4,644,759, Cl. 62-324.100.
Thermal Dynamics Corporation. See—
Hatch, Bruce O.; and Spaulding, Richard A., 4,691,094, Cl. 219-121.0PR.
Hatch, Bruce O., 4,701,590, Cl. 219-121.0PR.
Kneeland, Robert D.; Hatch, Bruce O.; and Spaulding, Richard A., 4,663,512, Cl. 219-121.0PU.
Kneeland, Robert D.; Hatch, Bruce O.; and Spaulding, Richard A., 4,663,515, Cl. 219-121.0PT.
Thermal Energy Storage, Inc.. See—
Jensen, Eric A.; Hitchin, James; Tsai, Albert G.; and Arrhenius, Gustaf O., 4,696,338, Cl. 165-1.000.
Thermal Engine Technology, Inc.. See—
Lagow, Ralph J., 4,693,087, Cl. 60-670.000.
Thermal Science, Inc.. See—
Parker, John A.; Feldman, Rubin; and Bryant, Robert L., 4,687,651, Cl. 423-315.000.
Parker, John A.; Feldman, Rubin; and Bryant, Robert L., 4,687,785, Cl. 521-106.000.
Thermalloy Incorporated. See—
Clemens, Donald L., 4,712,159, Cl. 361-386.000.
Jordan, William D.; and Clemens, Donald L., 4,709,302, Cl. 361-388.000.
Thermatic Glass, Inc.. See—
Kelly, Paul R., 4,669,241, Cl. 52-400.000.
Thermco Systems, Inc.. See—
Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Goff, Ralph D.; and Herrera, Michael J., 4,636,140, Cl. 414-786.000.
Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Goff, Ralph D.; and Herrera, Michael J., 4,684,863, Cl. 318-593.000.
Aldridge, Robert E.; Elloway, Russell; Fritz, William O.; Goff, Ralph D.; and Herrera, Michael J., 4,692,115, Cl. 432-242.000.
Taylor, Jerry A., Sr., 4,711,197, Cl. 118-715.000.
Yu, Chorng-Tao, 4,711,989, Cl. 219-390.000.
Thermedics Inc.. See—
Poirier, Victor L., 4,668,222, Cl. 604-175.000.
Szycher, Michael; Dempsey, Donald J.; and Rolfe, Jonathan L., 4,638,043, Cl. 528-75.000.
Thermionics Laboratory, Inc.. See—
Farra, Carl R.; and Snouse, Thomas W., 4,685,193, Cl. 29-358.000.
Thermo Electric Instruments. See—
Richmond, James C., 4,707,148, Cl. 374-208.000.
Thermo Electron Corporation. See—
Hurley, James R.; Panora, Robert A.; Scaright, Edward F.; and Shukla, Kailash C., 4,668,390, Cl. 210-167.000.
Hurley, James R.; Birkner, Joseph R.; and Nunes, Maurice, 4,671,250, Cl. 126-21.00A.
Pezaris, Stylianos, 4,639,874, Cl. 364-478.000.
Samberg, Andrew J., 4,664,181, Cl. 165-104.130.
Thermo Electron Web Systems, Inc.. See—
Dunlap, Harold E.; and Goodnow, Ronald F., 4,665,859, Cl. 118-126.000.
Goodnow, Ronald F.; and Reid, Robert A., 4,691,406, Cl. 15-256.530.
Taylor, Bruce F.; and Hagen, Kenneth G., 4,685,221, Cl. 34-155.000.
Taylor, Bruce F.; and Hagen, Kenneth G., 4,689,895, Cl. 321-20.000.
Taylor, Bruce F.; and Hagen, Kennet h G., 4,702,015, Cl. 34-20.000.
Villalobos, Joseph A., 4,665,631, Cl. 34-114.000.
Thermo Kinetics Industries, Inc.. See—
Gambrell, David E., 4,684,379, Cl. 55-227.000.
Thermo King Corporation. See—
Hanson, Jay L., 4,646,529, Cl. 62-155.000.
Howland, Leland L.; and Seshadri, Jayaram, 4,685,306, Cl. 62-117.000.
Howland, Leland L.; and Seshadri, Jayaram, 4,706,465, Cl. 62-199.000.
Howland, Leland L.; and Seshadri, Jayaram, 4,711,095, Cl. 62-117.000.
Howland, Leland L.; and Seshadri, Jayaram, 4,712,383, Cl. 62-200.000.
Taylor, David H., 4,638,641, Cl. 62-180.000.
Taylor, David H., 4,646,539, Cl. 62-278.000.
Truckenbrod, Gregory R.; Christiansen, David A.; Falk, Herbert S.; Johnson, Richard A.; and Colclaser, Robert G., III, 4,663,725, Cl. 364-505.000.
Viegas, Herman H., 4,635,671, Cl. 137-102.000.
Waldschmidt, William L., 4,716,275, Cl. 219-201.000.
Thermo-O-Type Corporation. See—
Van Pelt, Christopher K., 4,698,504, Cl. 250-319.000.
Thermo Plastic Research Co., Ltd.. See—
Tipton, Lance W., 4,711,751, Cl. 264-159.000.
Thermo Produkter B.S. Ab. See—
Stenvinkel, Bengt, 4,658,593, Cl. 62-126.000.
Thermocatalytic Corporation. See—
Farina, Alfred J., 4,650,622, Cl. 264-64.000.
Thermocell Development, Ltd.. See—
Smith, Stuart B., 4,670,346, Cl. 428-422.800.
Thermoguard Equipment Inc.. See—
Shill, David, 4,700,941, Cl. 271-151.000.
Thermolyne Holdings Inc.. See—
Walsh, William J., 4,677,282, Cl. 219-508.000.
Thermon Manufacturing Company. See—
Yagnik, Chandrakant M.; and Goss, David C., 4,645,906, Cl. 219-301.000.
Thermotech D.I.C., Inc.. See—
Crigger, James, 4,650,707, Cl. 428-100.000.
Thermotechnik G. Bauknecht GmbH. See—
Meiser, Roland; Burkert, Josef; and Bendel, Ralf, 4,682,009, Cl. 219-377.000.
Thern, Rolf A. B.; and Holmgren, Hans G. Locality supervision system, 4,660,023, 4-21-87, Cl. 340-521.000.
Therond, Jean-Francois; and Cretin, Jacques, to Institut Francais du Petrole; and Compagnie Generale de Geophysique. Device associated to a computer for controlling data transfers between a data acquisition system and an assembly comprising a recording and reading apparatus, 4,669,060, 5-26-87, Cl. 364-900.000.
Therrien, David G.. See—
Veres, James F.; Stein, James B.; Beauchamp, Robert W.; Kimmens, Harold R.; Baird, David W.; Roman, Michael J.; Therrien, David G.; and Doyle, John J., 4,654,783, Cl. 364-200.000.
Thery, Denis. See—
Schapira, Joseph; Ken, Victor; Thery, Denis; and Jelodin, Stephane, 4,678,519, Cl. 148-6.15Z.
Thesing, Rich. See—
Nichols, Walt; Newsome, Reggie; Thesing, Rich; and Houck, Willie, 4,715,390, Cl. 131-335.000.
Theta Industries, Inc.. See—
Baricevac, Thomas A.; and Raffalski, Karl-Heinz, 4,636,090, Cl. 374-56.000.
Raffalski, Karl-Heinz, 4,687,343, Cl. 374-56.000.
Thetford Corporation. See—
Antos, John M.; and Selina, John R., 4,703,785, Cl. 141-326.000.
Antos, John M.; and Selina, John R., 4,712,255, Cl. 4-323.000.
Sargent, Charles L.; Antos, John M.; Hoffman, John A.; and Cameron, John T., 4,641,383, Cl. 4-323.000.
Thettu, Raghulinga R.. See—
Garavuso, Gerald M.; Liang, Shwu-Jian; and Thettu, Raghulinga R., 4,640,504, Cl. 271-113.000.
Theuer, Rudolf. See—
Nowak, Gerhard; Winter, Alfred; Morbitzer, Hans P.; Kruschik, Klaus; and Theuer, Rudolf, 4,691,936, Cl. 280-615.000.
Theuner, Hans-Werner. See—
Dreckmann, Karl; Schroeder, Jakob; and Theuner, Hans-Werner, 4,695,346, Cl. 156-361.000.
Theurer, Josef; and Oellerer, Friedrich, to Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile ballast cleaning machine, 4,635,664, 1-13-87, Cl. 134-131.000.
Theurer, Josef, to Franz Plasser Bahnbaumaschinen Industriegesellschaft m.b.H. Ballast cleaning machine with preliminary sifting conveyor, 4,640,364, 2-3-87, Cl. 171-16.000.
Theurer, Josef, to Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile track leveling, lining and tamping machine, 4,643,101, 2-17-87, Cl. 104-7.200.
Theurer, Josef; and Hansmann, Johann, to Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Continuously advancing track leveling, lining and tamping machine, 4,644,868, 2-24-87, Cl. 104-7.200.
Theurer, Josef, to Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile track leveling, lining and tamping machine, 4,646,645, 3-3-87, Cl. 104-7.200.
Theurer, Josef; and Bock, Gernot, to Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Apparatus for correcting the level and cross level of a track, 4,655,142, 4-7-87, Cl. 104-7.100.
Theurer, Josef, to Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile machine for measuring track parameters, 4,691,565, 9-8-87, Cl. 73-146.000.
Theurer, Josef; and Oellerer, Friedrich, to Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile track working machine operator cab arrangement, 4,703,568, 11-3-87, Cl. 37-104.000.
Theus, John G., to Tektronix, Inc. Digital free-running clock synchronizer, 4,691,121, 9-1-87, Cl. 307-269.000.
Theuwissen, Albert J. P.; Izushi, Munehisa; Jaspers, Cornelis A. M.; van de Steeg, Martinus J. H.; and Vermeulen, Arend J. W. A., to U.S. Philips Corporation. Autofocus television camera with means for reading and comparing partial images to derive a focus indication, 4,668,991, 5-26-87, Cl. 358-227.000.
Thevenet, Jean-Claude. See—
Gilfaut, Jean-Pierre; Peze, Andre; Ravillard, Jean-Paul; and Thevenet, Jean-Claude, 4,714,052, Cl. 122-149.000.
Thevenin, Jean-Claude. See—
Calvet, Jean; Cavan, Jean-Claude; Thevenin, Jean-Claude; and Fievet, Alain, 4,668,445, Cl. 264-1.500.

Calvet, Jean; Cavan, Jean-Claude; and Thevenin, Jean-Claude, 4,675,136, Cl. 264-1.500

Thevenin, Patrick D.; Gissinger, Bernard C.; and Thevenin, Stephane J. Device for providing double coverings or claddings, support pieces, supports and pliers for putting into effect said device, 4,656,794, 4-14-87, Cl. 52-22.000

Thevenin, Stephane J., *See*—
Thevenin, Patrick D.; Gissinger, Bernard C.; and Thevenin, Stephane J., 4,656,794, Cl. 52-22.000

Thevenon, Alain, to Instruments S.A. Optical device for an emission spectrometer, 4,645,344, 2-24-87, Cl. 356-328.000

Thevenot, Claude, *See*—
Bonnenfant, Yvon; Odet, Philippe; Perne, Raymond; and Thevenot, Claude, 4,679,696, Cl. 215-252.000

Thevoz, Michel, *See*—
Revillet, Georges; and Thevoz, Michel, 4,663,296, Cl. 436-45.000

Thewalt, Klaus, *See*—
Bison, Gunter; Linkat, Norbert; and Thewalt, Klaus, 4,652,671, Cl. 560-168.000

Thewalt, Reiner, *See*—
Gockel, Harald; Thewalt, Reiner; and Giering, Wilfried, 4,658,601, Cl. 188-196.00D

Thewlis, Duane E., *See*—
Bishop, Marshall E.; and Thewlis, Duane E., 4,707,205, Cl. 156-110.100

Theys, Raymond A., *See*—
Cummins, Michael; Cummins, James M.; and Theys, Raymond A., 4,640,142, Cl. 74-501.00R

Theyson, Thomas W., to Glyco Inc. Shock treatment of aqueous systems, 4,698,165, 10-6-87, Cl. 210-755.000

Thibault, Jean, to Eastman Kodak Company. Apparatus and method for preventing the formation of a deposit from a processing solution on a film transport member, 4,695,147, 9-22-87, Cl. 354-322.000

Thibault, Jean-Francois, *See*—
Rombouts, Franciscus M.; Thibault, Jean-Francois; and Mercier, Christiane, 4,672,034, Cl. 435-101.000

Thiccvic, Paul A., *See*—
Bouchard, Andre C.; Thibault, Paul A.; and Lagushenko, Radomir T., 4,678,520, Cl. 148-6.350

Bouchard, Andre C.; and Thibault, Paul A., 4,698,040, Cl. 445-26.000

Thibeault, Richard T., to United States of America, Navy. VLF/HF EMI filter, 4,672,337, 6-9-87, Cl. 333-167.000

Thibert, Jean-Jacques; and Bousquet, Jean-Marc, to Office National d'Etudes et de Recherches Aerospatiales (ONERA). Propeller blade for aircraft propulsion, 4,652,213, 3-24-87, Cl. 416-223.00R

Thibodeau, David J., Jr., to Sanders Associates, Inc. Dynamically configurable fast Fourier transform butterfly circuit, 4,689,762, 8-25-87, Cl. 364-726.000

Thibodeaux, Devron P., *See*—
Weiss, Louis C.; Thibodeaux, Devron P.; and Godshall, Mary Ann, 4,680,106, Cl. 209-1.000

Thie, Werner, *See*—
Sanz, Ernst Steger, Jean P.; and Thie, Werner, 4,697,597, Cl. 128-699.000

Thiebaud, Daniel, *See*—
Besson, Raymond; Delatte, Richard; Genestier, Gerard; Maitre, Pierre; Renard, Georges; Thiebaud, Daniel; and Valentin, Jean-Pascal, 4,705,982, Cl. 310-356.000

Thiebaud, Marius, Automatic regulating valve of the air flow sucked out of a room through a mechanical ventilating installation, 4,690,372, 9-1-87, Cl. 251-129.100

Thiede, Edwin C., *See*—
Coulter, Thomas R.; Isaacson, Philip O.; and Thiede, Edwin C., 4,707,697, Cl. 342-25.000

Thiede, Peter, to Vereinigte Flugtechnische Werke GmbH. Supercritical wing, 4,660,788, 4-28-87, Cl. 244-209.000

Thieke, Michael D. Snuff holder and dispenser, 4,705,165, 11-10-87, Cl. 206-253.000

Thiel, Bernhard, *See*—
Leuker, Wilhelm; Stipsits, Gunter; and Thiel, Bernhard, 4,640,121, Cl. 73-40.50A

Thiel, David V., to Griffith University. Phase shift keying and phase modulation transmission system, 4,682,118, 7-21-87, Cl. 329-122.000

Thiel, Gerhard, *See*—
Pilz, Georg; Buerger, Gert; Barl, Manfred; and Thiel, Gerhard, 4,713,201, Cl. 260-501.170

Pilz, Georg; Buerger, Gert; Barl, Manfred; and Thiel, Gerhard, 4,713,437, Cl. 528-336.000

Thiel, Klaus P.; Sindlinger, Raimund; and Merrem, Hans J., to Merck Patent Gesellschaft mit beschrankter Haftung. Process for the production of photoresist relief structures having an overhang character using o-quinone diazide photoresist with overexposure, 4,649,101, 3-10-87, Cl. 430-326.000

Thiel, Reinhard A., administrator, *See*—
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Thiel, Rudolf; and Doell, Andreas, to Alfred Teves GmbH. Actuating apparatus for a disc brake, 4,643,271, 2-17-87, Cl. 188-72.700

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Engel, Jurgen; Jakovlev, Vladimir; Nickel, Bernd; Thiemer, Klaus; and Scheffler, Gerhard, 4,643,995, Cl. 514-210.000

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Thierbach, Mark E., to American Telephone and Telegraph Company. Programmed logic array with two-level control timing, 4,661,922, 4-28-87, Cl. 364-716.000

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Nuckolls, John H.; and Thiessen, Albert R., 4,687,618, Cl. 376-152.000

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Thoe, Robert S., to United States of America, Energy. Method and apparatus for enhancing microchannel plate data. 4,637,052, 1-13-87, Cl. 382-1.000.

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Tholome, Roger, *See*—
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Thom, Guenter; and Zell, Karl, to Siemens Aktiengesellschaft. Backplane wiring for electrical printed circuit cards. 4,674,812, 6-23-87, Cl. 439-75.000.

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Thom, Paul, to Kiddie Products, Inc. Toy telephone. 4,713,535, 12-15-87, Cl. 446-141.000.

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Thom, Terrence C., to Can-Eng Holdings, Ltd. Rotary retort furnace. 4,648,836, 3-10-87, Cl. 432-107.000.

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Thoma, Wilhelm; Noll, Klaus; Nachtkamp, Klaus; Pedain, Josef; and Schroer, Walter, to Bayer Aktiengesellschaft. Coating agents of polyurethane dispersions and the use thereof for top coats and finishes. 4,652,466, 3-24-87, Cl. 427-244.000.

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Thoma, Wolfgang, *See*—
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Thomann, Chantal. Installation for cleaning building. 4,649,672, 3-17-87, Cl. 51-424.000.

Thomann, Christof, to Zellweger Uster, Ltd. Measuring device for measuring the cross-section of textile yarns. 4,638,169, 1-20-87, Cl. 250-560.000.
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Thomas, Bruce L. Taco holder and serving element combination. 4,653,645, 3-31-87, Cl. 206-543.000.
Thomas, Carlton E., to KMS Fusion, Inc. Target illumination. 4,657,721, 4-14-87, Cl. 376-104.000.
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Thomas, Charles E.; Yerazunis, William S.; Erkes, Joseph W.; and Lee, Minyoung, to General Electric Company. Acoustic detection of tool break events in machine tool operations. 4,636,779, 1-13-87, Cl. 340-680.000.
Thomas, Charles E.; Lee, Minyoung; Bedard, James F.; and Hayashi, Steven R., to General Electric Company. Acoustic monitoring of cutting conditions to detect tool break events. 4,636,780, 1-13-87, Cl. 340-680.000.
Thomas, Charles E.; and Harvey, Richard. Speed maneuvering water craft and controls. 4,641,599, 2-10-87, Cl. 114-346.000.
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Thomas, Charles R. Therapeutic pillow. 4,660,239, 4-28-87, Cl. 5-434.000.
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Thomas, Clayton A., to Noom, Richard A. Knockdown table or the like. 4,644,876, 2-24-87, Cl. 108-111.000.
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Thomas, David C., to Corban International, Ltd. Data processing system including data input authorization. 4,654,792, 3-31-87, Cl. 364-200.000.
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Thomas, David M.; and Tubb, Leonard J., to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence and Control Data Canada, Ltd. Algorithm for radar coordinate conversion in digital scan converters. 4,697,185, 9-29-87, Cl. 342-185.000.
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Thomas, Edward L. Fastener positioning device. 4,685,603, 8-11-87, Cl. 227-6.000.
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Thomas, Gareth; Kim, Nack J.; and Ramesh, Ramamoorthy, to Advanced Materials and Design Corp. Method of forming high strength, tough, corrosion-resistant steel. 4,671,827, 6-9-87, Cl. 148-12.00E.
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Thomas, Glenn R.; and McKee, Jere L., to Westinghouse Electric Corp. Circuit breaker with blow open latch. 4,638,277, 1-20-87, Cl. 335-190.000.

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Thomas, Griffith. Alkaline processing of naturally occurring calcium aluminum and iron phosphates. 4,668,487, 5-26-87, Cl. 423-208.000.

Thomas, Griffith. Production of ingredients for detergents and soap powders from alkali phosphates. 4,707,344, 11-17-87, Cl. 423-312.000.

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Thomas, Harold D. Wood bundling device. 4,658,570, 4-21-87, Cl. 53-556.000.

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Thomas, Haywood, Jr. Spinner apparatus and method. 4,706,530, 11-17-87, Cl. 82-40.000R.

Thomas, Hermann; Herd, Josef; and Jakob, Hans, to Maschinenfabrik Goebel GmbH. Knife cylinder for processing a continuous web. 4,671,154, 6-9-87, Cl. 83-698.000.

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Spaanderman, Cornelis; van der Hulst, Robert; and van Rij, Abraham W., 4,671,429, Cl. 222-110.000.

Thomas, Jacob E. *See*—
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Thomas, Jacques B. Automatic ski tuning device. 4,679,356, 7-14-87, Cl. 51-205.0WG.

Thomas, James A., III. Door security apparatus. 4,666,195, 5-19-87, Cl. 292-338.000.

Thomas, James E. Plate holder. 4,687,169, 8-18-87, Cl. 248-493.000.

Thomas, James L. Cradle type boat lifts. 4,686,920, 8-18-87, Cl. 114-48.000.

Thomas, James L., Sr.—
McCoukle, Charles C.; O'Neil, William F.; Meier, Michael J.; Fieldsted, Thomas P.; Thomas, James L.; and Pfeifer, Arthur F., 4,670,653, Cl. 250-330.000.

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Thomas, John E., to Economics Laboratory, Inc. Method and apparatus for dispensing a fluid using a fluid-operated timer. 4,651,907, 3-24-87, Cl. 222-639.000.

Thomas, John H.; Duncan, Don P.; Lake, Michael A.; and Womack, Gary B., to Westvaco Corporation. Modified rosin ester preparation. 4,643,848, 2-17-87, Cl. 260-104.000.

Thomas, Johnnie. Handbag or backpack with a flap closure. 4,687,036, 8-18-87, Cl. 150-118.000.

Thomas, Joyce K. *See*—
Richmond, Clark S.; Thomas, Joyce K.; and Hohulin, Samuel E., 4,665,582, Cl. 15-344.000.

Thomas, Karen A., to Olin Corporation. Continuous production of low density base grain with a salt-free liquor. 4,693,753, 9-22-87, Cl. 102-289.000.

Thomas, Keith E., to Capitol Records, Inc. Portable playback system with active tape drive tensioning feature. 4,679,108, 7-7-87, Cl. 360-130.310.

Thomas, Kendolph A., to Xerox Corporation. Front air knife top vacuum corrugation feeder. 4,635,921, 1-13-87, Cl. 271-94.000.

Thomas, Kenneth C. *See*—
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Thomas, Larry D.; Waltke, David L.; and Gibson, Gary, to Hoover Group, Inc. Composite metal and plastic tank. 4,648,521, 3-10-87, Cl. 220-1.500.

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Thomas, Lyell J., Jr. *See*—
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Thomas, Mammen; and Ko, Wen C., to Advanced Micro Devices, Inc. Emitter coupled logic bipolar memory cell. 4,635,230, 1-6-87, Cl. 365-175.000.

Thomas, Mammen; and Ko, Wen C., to Advanced Micro Devices, Inc. Emitter coupled logic bipolar memory cell. 4,654,824, 3-31-87, Cl. 365-175.000.

Thomas, Mammen; and Ko, Wen C., to Advanced Micro Devices, Inc. Method of forming emitter coupled logic bipolar memory cell using polysilicon Schottky diodes for coupling. 4,669,180, 6-2-87, Cl. 29-577.00C.

Thomas, Mammen; and Weinberg, Matthew, to Advanced Micro Devices, Inc. Fast bipolar transistor for integrated circuit structure and method for forming same. 4,682,409, 7-28-87, Cl. 29-591.000.

Thomas, Mammen; and Weinberg, Matthew, to Advanced Micro Devices, Inc. Method of making a planar polysilicon bipolar device. 4,686,763, 8-18-87, Cl. 437-51.000.

Thomas, Mammen, to Advanced Micro Devices, Inc. Process for isolation using self-aligned diffusion process. 4,696,095, 9-29-87, Cl. 437-78.000.

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Thomas, Mammen. *See*—
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Thomas, Mark S. *See*—
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Thomas, Michael; Neumann, Peter; Wegerle, Dieter; and Krallmann, Reinhold; to BASF Aktiengesellschaft. Lightfastness of dyeings obtained with acid dyes or metal complex dyes on polyamides: treatment with copper hydroxamates. 4,707,161, 11-17-87, Cl. 8-442.000.

Thomas, Michael. *See*—
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Thomas, Michael D. *See*—
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Thomas, Michael E.; Vora, Madhukar B.; and Kapoor, Ashok K., to Fairchild Camera & Instrument Corp. Method and structure for inhibiting dopant out-diffusion. 4,640,004, 2-3-87, Cl. 29-590.000.

Thomas, Michael E.; and Brown, Robert L., to Fairchild Semiconductor Corporation. Process for forming vias on integrated circuits. 4,670,091, 6-2-87, Cl. 156-643.000.

Thomas, Michael J. *See*—
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Thomas, Neil E., to Marconi Instruments Limited. Attenuators. 4,672,336, 6-9-87, Cl. 333-81.00A.

Thomas, Patrick K.; Hartman, Dennis C.; and Dockrey, Jasper W., to Motorola, Inc. Dry etching of multi-layer structures. 4,680,086, 7-14-87, Cl. 156-643.000.

Thomas, Perry W. Razor construction. 4,640,012, 2-3-87, Cl. 30-41.000.

Thomas, Peter A.; and Dewitt Dick, Doug B., to Drew Chemical Corporation. Control of scale in flue gas scrubbers. 4,670,236, 6-2-87, Cl. 423-242.000.

Thomas, Peter A. *See*—
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Thomas, Ralph H., Sr.: *See*—
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Thomas, Richard A.; and Eggleston, Ross W., to Ratcom, Inc. Flow cytometry. 4,673,288, 6-16-87, Cl. 356-72.000.
Thomas, Richard B. Method and system for controlling use of protected software. 4,685,055, 8-4-87, Cl. 364-200.000.
Thomas, Richard E.; and Ritz, Victor H., to United States of America, Navy. Co-sputtered thermionic cathodes and fabrication thereof. 4,675,091, 6-23-87, Cl. 204-192.150.
Thomas, Richard K.: *See*—
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Thomas, Robert F.: *See*—
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Thomas, Ronald L.; Titus, Terry C.; and Brandon, Craig A., to Clemson University. Process for obtaining juices from fruits containing same. 4,716,044, 12-29-87, Cl. 426-51.000.
Thomas, Scipio. Pneumatic seat support with linkage and horizontal shock absorbers. 4,681,292, 7-21-87, Cl. 248-584.000.
Thomas, Sharon L. Finger exercise device. 4,657,243, 4-14-87, Cl. 272-67.000.
Thomas, Squire J. Court ball game. 4,687,208, 8-18-87, Cl. 273-411.000.
Thomas, Stephen E.; and Thomas, Mark S. Generator assembly with torque balancing generation. 4,644,203, 2-17-87, Cl. 310-67.00A.
Thomas, Stephen M., to Siemon Company, The. Multicomponent telephone block access system. 4,655,521, 4-7-87, Cl. 339-31.00R.
Thomas, Stephen M.; and Nitowski, Ronald, to Siemon Company, The. Eight conductor modular plug. 4,682,837, 7-28-87, Cl. 439-344.000.
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Thomas, Vincent P.; West, Roderick M. P.; and Woodley, John P., to International Business Machines Corporation. MTL storage cell with inherent output multiplex capability. 4,672,579, 6-9-87, Cl. 365-155.000.
Thomas, Wayne D., to Tektronix, Inc. Regulated high voltage supply. 4,642,744, 2-10-87, Cl. 363-21.000.
Thomas, William C. Mask system for making multiple photographic exposures. 4,708,449, 11-24-87, Cl. 354-122.000.
Thomas, William R., to Baxter Travenol Laboratories, Inc. Aqueous compositions for treating blood clotting factor inhibitors. 4,663,164, 5-5-87, Cl. 424-101.000.
Thomas, William R., to Thoren Caging Systems, Inc. Ventilated animal housing and service system with cage filter covers. 4,690,100, 9-1-87, Cl. 119-15.000.
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Lutgendorf, Pieter H.; and Kleinnibbelink, Gerrit J., 4,680,463, Cl. 250-223.00B.
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Thominet, Michel; Acher, Jacques; and Monier, Jean-Claude, to Societe d'Etudes Scientifiques et Industrielles de l'Ile de France. New substituted heterocyclic benzamides, methods of preparing them and their application as behavior modifiers. 4,673,686, 6-16-87, Cl. 514-359.000.
Thoms, Wendl. Device for monitoring body signals. 4,662,378, 5-5-87, Cl. 128-644.000.
Thomke, Ernst; and Zaugg, Hans, to ETA S.A. Fabriques d'Ebauches. Electronic device for processing and displaying an item of information, a method of assembling said device and a machine for carrying out the method. 4,636,037, 1-13-87, Cl. 350/334.000.
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Thompson, Charles C.; and Bolch, James R., to United Technologies Corporation. Transpirationally cooled laser mirror. 4,657,359, 4-14-87, Cl. 350-610.000.
Thompson, Charles M., to Reed Tool Company. Means to secure cutting elements on drag type drill bits. 4,646,857, 3-3-87, Cl. 175-329.000.
Thompson, Charles R., to RCA Corporation. Differential PCM video transmission system employing horizontally offset five pixel groups and delta signals having plural non-linear encoding functions. 4,661,862, 4-28-87, Cl. 358-335.000.
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Smith, Darren A.; and Thompson, Ian R., 4,712,524, Cl. 123-198.00A.
Thompson, James B.; and Junge, Brent A., to General Electric Company. Household refrigerator air flow system. 4,704,874, 11-10-87, Cl. 62-187.000.
Thompson, James E., to United States Steel Corporation. Well pumping unit. 4,651,578, 3-24-87, Cl. 74-41.000.
Thompson, James E.; and Novick, Nicholas S., to Deere & Company. Ventilation system and filter. 4,660,462, 4-28-87, Cl. 98-2.110.
Thompson, James E., to USX Corporation. Well pumping unit. 4,703,665, 11-3-87, Cl. 74-41.000.
Thompson, James E.: *See*—
Beers, M. Dale; and Thompson, James E., 4,673,750, Cl. 549-215.000.
Thompson, Jeffrey L.: *See*—
Patton, Wesley H.; and Thompson, Jeffrey L., 4,673,854, Cl. 318-649.000.
Thompson, John A.; and Keogh, Christopher B., to Henkel Corporation. Crosslinked vinyl polymer compositions and process for preparing molded shaped articles. 4,649,169, 3-10-87, Cl. 524-247.000.
Thompson, John A., to Exxon Research and Engineering Company. Method for the modification of polycarbonate membranes, the membranes produced by such method and their use. 4,715,960, 12-29-87, Cl. 210-651.000.
Thompson, John A.: *See*—
Engle, Vencil D.; Hafer, Cameron H.; Hughes, Frank M.; Steger, Donald J.; Stewart, Edward G.; Street, Ramon L.; and Thompson, John A., 4,650,351, Cl. 400-120.000.
Thompson, John H.: *See*—
Slebzak, Gary R.; Thompson, John H.; and Douglas, George R., 4,704,709, Cl. 367-158.000.
Thompson, John M., to Ralston Purina Company. Apparatus for depositing chocolate chips and the like onto edible food products. 4,655,161, 4-7-87, Cl. 118-24.000.
Thompson, John M., to Ralston Purina Company. Method for depositing chocolate chips and the like onto edible food products. 4,699,795, 10-13-87, Cl. 426-289.000.
Thompson, John R.; Hunting, Curtis J.; Masson, Ronald K.; and Trivelpiece, Craig E., to Payview Limited. Addressable subscription television system having multiple scrambling modes. 4,716,588, 12-29-87, Cl. 380-20.000.
Thompson, John S.: *See*—
Taylor, Peter J.; Clarke, Alan; and Thompson, John S., 4,691,510, Cl. 60-39.094.
Thompson, Joseph V., Jr., to E-Zee Company, Inc. Fish hook safety device. 4,667,433, 5-26-87, Cl. 43-25.200.
Thompson, Kathryn L.: *See*—
Chang, Michael N.; Thompson, Kathryn L.; and Boulton, David A., 4,713,393, Cl. 514-469.000.
Thompson, Kenneth A.: *See*—
Rozema, John G.; and Thompson, Kenneth A., 4,696,016, Cl. 375-20.000.
Thompson, Kevan R.: *See*—
Doherty, James B.; Finke, Paul E.; Firestone, Raymond A.; Shah, Shrenik S.; and Thompson, Kevan R., 4,637,999, Cl. 514-201.000.
Thompson, Kevin D.; Ballard, Gary W.; and Mamot, Robert M., to Carrier Corporation. Adaptive blower motor controller. 4,648,551, 3-10-87, Cl. 236-49.000.
Thompson, Kevin D.; Dempsey, Daniel J.; and Peitz, Robert W., Jr., to Carrier Corporation. Excess air control. 4,703,747, 11-3-87, Cl. 126-112.000.
Thompson, Kevin D.; and Ballard, Gary W., to Carrier Corporation. Method of limiting motor power output. 4,707,646, 11-17-87, Cl. 318-332.000.
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Thompson, Kevin P., to Perkin-Elmer Corporation, The. Spatial/spectral real time imaging. 4,650,321, 3-17-87, Cl. 356-73.000.
Thompson, Larry L., to Rock Dock, Inc. Concrete marine float and method of fabricating same. 4,715,307, 12-29-87, Cl. 114-65.00A.
Thompson, Lester: *See*—
Vandewege, Orville, 4,673,117, Cl. 223-15.000.
Thompson, Malcolm J.: *See*—
Tuan, Hsing C.; and Thompson, Malcolm J., 4,646,163, Cl. 358-300.000.
Thompson, Marion L. Energy absorbing barrier. 4,681,302, 7-21-87, Cl. 256-13.100.
Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,643,759, 2-17-87, Cl. 71-90.000.
Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal ortho-heterocyclic pyrazolesulfonamides. 4,655,817, 4-7-87, Cl. 71-90.000.
Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal ortho-heterocyclic sulfonamides. 4,657,578, 4-14-87, Cl. 71-90.000.
Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal ortho-heterocyclic sulfonamides. 4,662,931, 5-5-87, Cl. 71-90.000.
Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,662,933, 5-5-87, Cl. 71-92.000.
Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal ortho-heterocyclic pyrazolesulfonamides. 4,707,178, 11-17-87, Cl. 71-90.000.
Thompson, Mark E., to Du Pont de Nemours, E. I., and Company. Herbicidal ortho-heterocyclic sulfonamides. 4,707,179, 11-17-87, Cl. 71-90.000.
Thompson, Mark E.: *See*—
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Hanagan, Mary A.; and Thompson, Mark E., 4,678,502, Cl. 71-93.000.
Hanagan, Mary A.; and Thompson, Mark E., 4,699,650, Cl. 71-92.000.
Thompson, Martin S., to Egerton Hospital Equipment Limited. Multi-position bed. 4,658,450, 4-21-87, Cl. 5-61.000.
Thompson, Michael: *See*—
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Krull, Ulrich J.; and Thompson, Michael, 4,637,861, Cl. 204-1.00T.
Krull, Ulrich J.; and Thompson, Michael, 4,661,235, Cl. 204-414.000.
Thompson, Michael D.; and Imes, Clifford W., IV, to Xerox Corporation. Developer metering structure. 4,637,340, 1-20-87, Cl. 118-657.000.
Thompson, Michael D.; and Madding, Gary D., to Bristol-Myers Company. Intermediates useful in the preparation of 3,4-dihydro-4-oxothieno[2,3-d]pyrimidine-2-carboxylates and process for preparing same. 4,701,528, 10-20-87, Cl. 544-278.000.
Thompson, Mortimer S., to Tri-Tech Systems International Inc. Closure cap with a linerless seal and a method for forming such closure and seal. 4,708,255, 11-24-87, Cl. 215-329.00.
Thompson, Mortimer S., to Tri-Tech Systems International Inc. Tamper evident plastic caps with lower separable or breakaway portions and a method of forming them. 4,709,824, 12-1-87, Cl. 215-252.000.
Thompson, Neil E. S.; Redmore, Derek; Oude Alink, Bernardus A.; and Outlaw, Benjamin T., to Petrolite Corporation. Process of corrosion inhibition using compounds containing sulfur and amino groups. 4,684,507, 8-4-87, Cl. 422-12.000.
Thompson, Neil E. S.; and Asperger, Robert G., to Petrolite Corporation. Use of tridithiocarbamic acid compositions as demulsifiers. 4,689,177, 8-25-87, Cl. 252-344.000.
Thompson, Niels A.: *See*—
Morse, Arthur L.; and Thompson, Niels A., 4,654,800, Cl. 250-211.00J.
Thompson, Peter: *See*—
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Thompson, Phillip D. Solenoid operated valve pressure balanced in a closed position by a single diaphragm. 4,641,686, 2-10-87, Cl. 137-625.650.
Thompson, Phillip E.; and Dietrich, Harry B., to United States of America, Navy. Method of forming thermally stable high resistivity

regions in n-type indium phosphide by oxygen implantation. 4,673,446, 6-16-87, Cl. 148-33.000.
Thompson, Raymond M., Jr.: *See*—
Shapiro, Ronald L.; and Thompson, Raymond M., Jr., 4,715,818, Cl. 434-118.000.
Thompson, Richard E.; and Uzzel, Robert G., to Lucas Industries. Self adjusting actuator for vehicle brakes. 4,637,498, 1-20-87, Cl. 188-71.900.
Thompson, Richard E., to Lucas Industries Public Limited Company. Internal shoe-drum brake. 4,678,067, 7-7-87, Cl. 188-328.000.
Thompson, Richard F.; Disney, Daniel J.; Quek, Swee-meng; and Westerfeld, Eric C., to Motorola Computer Systems, Inc. Dual cache for independent prefetch and execution units. 4,701,844, 10-20-87, Cl. 364-200.000.
Thompson, Robert A.; and White, Robert S., to General Electric Company. Adaptive displacement sensor for contour machining. 4,637,248, 1-20-87, Cl. 73-37.500.
Thompson, Robert E., to Chevron Research Company. Armored optical fiber cable. 4,696,542, 9-29-87, Cl. 350-96.230.
Thompson, Robert E.: *See*—
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Gould, Gordon; Soodak, Charles I.; and Thompson, Robert E., 4,651,917, Cl. 228-173.500.
Thompson, Robert J. Tip for a phacoemulsification needle. 4,689,040, 8-25-87, Cl. 604-22.000.
Thompson, Robert R. Small animal trap. 4,633,610, 1-6-87, Cl. 43-85.600.
Thompson, Robert R.; Mothersole, David S.; and MacGregor, Douglas B., to Motorola, Inc. Instruction address calculation unit for a microprocessor. 4,698,747, 10-6-87, Cl. 364-200.000.
Thompson, Robert W., to Minnesota Mining and Manufacturing Company. Microfilm reader and printer. 4,636,059, 1-13-87, Cl. 355-5.000.
Thompson, Robert W.: *See*—
Pyatt, Lawrence A.; and Thompson, Robert W., 4,704,579, Cl. 324-226.000.
Thompson, Robert W., Jr. Knitting machine counter. 4,674,300, 6-23-87, Cl. 66-8.000.
Thompson, Roby C.; Erdman, Arthur G.; and Dorman, Frank D., to University of Minnesota, Regents of the. Bone fixation device. 4,644,943, 2-24-87, Cl. 128-92.0YY.
Thompson, Roger A.; Jensen, James W.; and Templeton, Darrell L., to Adolph Coors Company. Laminating device with paper tension control. 4,704,171, 11-3-87, Cl. 156-64.000.
Thompson, Roger D., to Borzl (USA) Inc. Gable rake strip for a tile roof. 4,706,421, 11-17-87, Cl. 52-94.000.
Thompson, Roger E. Drink container. 4,669,608, 6-2-87, Cl. 206-217.000.
Thompson, Ronald J., to Polysar Limited. Process for binding nonwovens with acrylate compounds. 4,702,944, 10-27-87, Cl. 427-389.800.
Thompson, Ronald J.: *See*—
Damour, Philippe; Patoureau, Alain; Somma, Jack J.; and Thompson, Ronald J., 4,714,356, Cl. 384-275.000.
Thompson-Russell, Kathryn C.: *See*—
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Thompson, Silas W., II. Laminated pharmaceutical label. 4,674,771, 6-23-87, Cl. 282-8.00R.
Thompson, Stanley C. System to fit golf club to golfer. 4,655,457, 4-7-87, Cl. 273-162.00R.
Thompson, Stephan G.: *See*—
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Thompson, Thomas L. Floating dock/marina system. 4,660,495, 4-28-87, Cl. 114-263.000.
Thompson, Thomas L. Method of forming a non-skid surfaced structure. 4,662,972, 5-5-87, Cl. 156-279.000.
Thompson, Thomas L. Method of forming a walking-surface panel. 4,670,079, 9-2-87, Cl. 156-307.500.
Thompson, Timothy F.; and Wojcik, Robert M., to Westinghouse Electric Corp. Methods and apparatus for system fault diagnosis and control. 4,649,515, 3-10-87, Cl. 364-900.000.
Thompson, Timothy F.: *See*—
Smith, John R.; Kenny, Thomas J.; Graham, Kingsley F.; Neuner, James A.; Bauman, Douglas A.; Thompson, Timothy F.; Wassel, William W.; Rao, Dhulipala M.; and Theriault, David G., 4,642,636, Cl. 340-870.040.
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Thompson, Wesley G.: *See*—
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Thompson, William: *See*—
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Thompson, William J., to Rockwell International Corporation. Broadband signal termination apparatus comprising series cascade of resistors and transmission lines. 4,647,877, 3-3-87, Cl. 333-22.00R.
Thompson, William L., to Babcock & Wilcox Company, The. Variable pulse rate led electronics for a fiber optic vortex shedding flowmeter. 4,656,353, 4-7-87, Cl. 250-231.00R.
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Thompson, William W.; Bacon, Lawrence D.; Curry, Kent G.; and Morihiro, Steve, to Western Design Corporation. Gun-powered linear linkless ammunition magazine. 4,676,138, 6-30-87, Cl. 89-33.140.
Thoms, William H. Intelligent radiation monitor. 4,642,463, 2-10-87, Cl. 250-336.100.
Thomsen, Bernard D. Load transfer cell assembly for concrete pavement transverse joints. 4,648,739, 3-10-87, Cl. 404-2.000.
Thomsen, Christian: *See*—
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Thomsen, Jack W.; and Tadlock, John W., to Everpure, Inc. Filtering system. 4,654,142, 3-31-87, Cl. 210-232.000.
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Thomsen, Paul M.; and Ciocan, Dan N., to Conrac Corporation. Automated system for adjustment of the white balance in a signal displayed on the screen of a color cathode ray tube. 4,700,218, 10-13-87, Cl. 358-29.000.
Thomsen, Peter K. Arrangement for joining denture components by adhesion (device for binding parts of dental prosthesis by adhesion). 4,711,631, 12-8-87, Cl. 433-181.000.
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Thorgeirsson, Markus B., deceased; and by Magnusdottir, Helena R., sole heir. Life net to rescue men from sea or water on board a ship or upon a pier. 4,652,246, 3-24-87, Cl. 441-80.000
Thorkildsen, Finn; Pepin, Thierry; and Lunde, Tom, to Arvin Engineering Company. Apparatus for making finished wire harnesses or sub-assemblies therefor. 4,653,160, 3-31-87, Cl. 29-33.00M
Thorley, Neil R. Retractable ski leash device embodying dual purpose locking means. 4,685,697, 8-11-87, Cl. 280-617.000
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Halberstadt, Alex E.; and Hame, Roger A., 4,710,677, Cl. 313-580.000
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Thorn, Gernot, to Leybold-Heraeus GmbH. Apparatus for electrically contactlessly measuring the thickness of electrically conducting thin films on non-conducting travelling webs in vacuum deposition apparatus. 4,682,105, 7-21-87, Cl. 324-230.000
Thorn, Gernot; Thomas, Friedrich-Werner; Sturmer, Johann; Dahlinger, Dietrich; Hubertus, Guido; and Sperzel, Wolfgang, to Leybold-Heraeus GmbH. Direct-current-alternating-current inverter comprising a load which gains by forcing an output voltage of the direct-current-alternating-current inverter having a defined wave shape and frequency. 4,700,281, 10-13-87, Cl. 363-37.000
Thorn, John E.; and Burns, William W., to Ford Motor Company. Fuel tank filler tube restrictor assembly. 4,679,698, 7-14-87, Cl. 220-86.00R
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Thorn, Richard, to Den norske stats oljeselskap a.s. Apparatus for the measurement of the fraction of gas in a two-component fluid flow comprising a liquid and a gas in mixture. 4,713,603, 12-15-87, Cl. 324-61.00P
Thorn, Richard P.; and Schwemmer, Leonard J. Motion control strut. 4,706,946, 11-17-87, Cl. 267-292.000.
Thorn, Richard P. Quiet fluid filled vibration isolator. 4,709,907, 12-1-87, Cl. 267-140.100.
Thornander, Hans T.; Poore, John W.; Sholder, Jason A.; Thacker, James R.; and Amundson, David C., to Siemens-Elema AB. Physiologically responsive pacemaker and method of adjusting the pacing interval thereof. 4,712,555, 12-15-87, Cl. 128-419.0PG.

Thornber, Craig W.: See—
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Thornblom, Jan; and Astner, Gunnar, to SKF Steel Engineering AB. Method and means for use in the installation of plasma generators in shaft furnaces. 4,638,499, 1-20-87, Cl. 373-24.000.
Thornburg, Dennis D.; and Parenteau, Richard R. Combination smoke detector and device for containing air. 4,710,756, 12-1-87, Cl. 340-628.000.
Thorndike, Charles E. Log carrier. 4,637,769, 1-20-87, Cl. 414-454.000.
Thorndyke, Robert J., to Atlantis Projects Inc. Transportation van having load elevating platform located therein. 4,701,086, 10-20-87, Cl. 410-26.000.
Thorndyke, Terence; and Swain, Allan E. Portable aneural control unit. 4,689,776, 8-25-87, Cl. 367-139.000.
Thorne, Gale H.; Owen, Charles V.; Smith, Randall W.; Goldberg, Ruth D.; Miles, Scott D.; and Claus, Michael J., to Becton, Dickinson and Company. Automatic random access analyzer. 4,678,752, 7-7-87, Cl. 435-291.000.
Thorne, Kenneth W., to Parallel Industries, Inc. Convection blower for conventional electric ovens. 4,687,908, 8-18-87, Cl. 219-400.000.
Thorne, Richard L., to Fymetics, Inc. Power supply for electrostatic air cleaner. 4,654,772, 3-31-87, Cl. 363-19.000.
Thornell, John S.; and Kleinman, Dennis P. Glove with removable digits. 4,704,743, 11-10-87, Cl. 2-159.000.
Thorner, Robert H. Protector garment for men. 4,644,945, 2-24-87, Cl. 128-159.000.
Thornfeldt, Carl R. Treatment of nonacne inflammatory and infectious dermatoses and hair loss. 4,713,394, 12-15-87, Cl. 514-574.000.
Thornley, Joseph S.: See—
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Thornthwaite, Jerry T. Nuclear isolation medium and procedure for separating cell nuclei. 4,668,618, 5-26-87, Cl. 435-6.000.
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Thornton, Curtis W., to Edward Weck & Company, Inc. Skin clip remover. 4,665,460, 8-11-87, Cl. 128-321.000.
Thornton, David C.; and McKinley, Mark J., to Dow Chemical Company, The. Flocculants for brine-containing systems. 4,693,830, 9-15-87, Cl. 210-734.000.
Thornton-Desena Industries: See—
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Thornton, Donald L.; and Rodman, Clarke A., to Allied Corporation. Thermally formed gradient density filter. 4,661,132, 4-28-87, Cl. 55-486.000.
Thornton, Donald L.; and Rodman, Clarke A., to Allied Corp. Molded panel filter. 4,701,197, 10-20-87, Cl. 55-487.000.
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Thornton, Harold C., Jr.; and Hall, Clifton W., to Tramtec Corporation. Reversible and self-adjusting propeller device. 4,693,671, 9-15-87, Cl. 416-43.000.
Thornton, Henry M.; Thornton, John S.; Munchel, Eugene A.; and Plowman, Richard E., to Ashcombe Products Company. Gang drill and method for clearing patterns of holes in tubular members. 4,674,925, 6-23-87, Cl. 408-1.00R.
Thornton, James M., to Thor Ceramics Limited. Composite refractory product. 4,668,554, 5-26-87, Cl. 428-36.000.
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Thornton, Ken O. Toxic waste drain system and method. 4,687,372, 8-18-87, Cl. 405-128.000.
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Thornton, Robert L.; and Burnham, Robert D., to Xerox Corporation. Phased array semiconductor laser with preferred emission in the fundamental supermode. 4,706,255, 11-10-87, Cl. 372-50.000.
Thornton, Robert L.: See—
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Thornton, Theodore W. Dispensing chain of loop lengths of dental floss or the like and method of forming same. 4,706,843, 11-17-87, Cl. 221-48.000.
Thornton, Thomas A.; and Pettus, William G., to Babcock & Wilcox Company, The. Nuclear fuel pellet-cladding interaction test device and method modeling in-core reactor thermal conditions. 4,643,866, 2-17-87, Cl. 376-245.000.
Thornton-Trump, Walter E. Vehicle speed control device. 4,648,366, 3-10-87, Cl. 123-335.000.
Thornton, William A., Jr. Method and apparatus for measuring any of a large number of characteristics of lamplight. 4,653,925, 3-31-87, Cl. 356-419.000.
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Thornwall, Joseph C., to United States of America, Army, Electronic device providing automatic permutations of a Vigenere Square. 4,675,477, 6-23-87, Cl. 380-21.000.
Thorogood, Douglas E., to Baxter Travenol Laboratories, Inc. Method and apparatus for removal of items from a sterile enclosure. 4,715,165, 12-29-87, Cl. 53-469.000.
Thorogood, Robert M., to Air Products and Chemicals, Inc. Heat exchanger design for cryogenic reboiler or condenser service. 4,699,209, 10-13-87, Cl. 165-110.000.
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Thorp, Peter; and Manley, Roger E. W., to Coal Industry (Patents) Limited. Breathing apparatus. 4,635,629, 1-13-87, Cl. 128-202.260.
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Thorpe, Arthur N.; Senftle, Frank E.; and Alexander, Corrinne C., to United States of America, Interior, Method for oxidation of pyrite in coal to magnetite and low field magnetic separation thereof. 4,661,118, 4-28-87, Cl. 44-1.05R.
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Thorpe, John E.; and Sarang, Gursharan S., to M&T Chemicals Inc. Production of dielectric boards. 4,715,116, 12-29-87, Cl. 29-846.000.
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Thorpe, Paul: See—
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Thorpe, Vonda J. Quilting frame apparatus. 4,658,521, 4-21-87, Cl. 38-102.600.
Thorsell, Leif U. F.; and Nilsson, Nils O., to Mö och Domsjö Aktiebolag. Process for preparing cellulose pulp from lignocellulosic material while removing high molecular weight substances from the pulping liquor. 4,670,098, 6-2-87, Cl. 162-29.000.
Thowsell, Paul W.; and Mulvihill, Mark A., to Whitmore Manufacturing Company, The. Extreme pressure additives for lubricants. 4,648,985, 3-10-87, Cl. 252-32.500.
Thorsen, Niels P.; Jessen, Gilbert W.; Thomsen, Erik; and Sorensen, Jens R., to Danfoss A/S. Control circuit for a refrigerating device. 4,706,467, 11-17-87, Cl. 62-139.000.
Thorsen, Thomas A.: See—
Greenwood, Leon D.; and Thorsen, Thomas A., 4,658,775, Cl. 123-185.000.
Thorsett, Eugene D.: See—
Greenlee, William J.; and Thorsett, Eugene D., 4,634,715, Cl. 514-423.000.
Harris, Elbert E.; Patchett, Arthur A.; and Thorsett, Eugene D., 4,680,392, Cl. 540-527.000.
Wyvratt, Matthew J., Jr.; Thorsett, Eugene D.; Tristram, Edward W.; Patchett, Arthur A.; and Harris, Elbert E., 4,661,479, Cl. 514-214.000.
Thorsgard, Knute E. Method and device for achieving reversible male sterilization. 4,682,592, 7-28-87, Cl. 128-303.100R.
Thorsman & Co. Aktiebolag: See—
Legerius, Bengt E.; and Sundstrom, Inge, 4,712,342, Cl. 52-221.000.
Thorsnes, Ola O., to Selvaag-Bygg A/S. Method for docking of a floating structure. 4,662,780, 5-5-87, Cl. 405-1.000.
Thorson, Russell E.; and Marver, Douglas J., to Kimberly Clark Corporation. Apparatus for controlling the heating of composite materials. 4,680,450, 7-14-87, Cl. 219-388.000.
Thorsrud, Agmund K., to Phillips Petroleum Company. Radio frequency energy sensitized compositions and method for sensitizing compositions to radio frequency energy. 4,661,299, 4-28-87, Cl. 264-25.000.
Thorsrud, Agmund K., to Phillips Petroleum Company. Formation of laminated structures by selective dielectric heating of bonding film. 4,707,402, 11-17-87, Cl. 428-328.000.
Thorud, Richard A.; and White, Donald M., III, to Toro Company, The. Single stage snowthrower. 4,694,594, 9-22-87, Cl. 37-244.000.
Thorud, Stanley R., to Liberty Diversified Industries, Inc. Security cassette holder. 4,714,161, 12-22-87, Cl. 206-387.000.

Thorvick, Thomas S.: *See*—
Cullen, Richard; Koploy, Randolph A.; Thorvick, Thomas S.; and Westman, Donald A., 4,650,957, Cl. 219-124.030.
Those Characters From Cleveland, Inc.: *See*—
Perkitny, Jerzy; and Chanter, Edward G., 4,685,893, Cl. 446-319.000.
Shaffer, Ralph; and Trentel, Susan, 4,674,749, Cl. 273-153.00R.
Thottathil, John K., to E. R. Squibb & Sons, Inc. Process for preparing phosphonic acids. 4,670,193, 6-2-87, Cl. 260-502.40R.
Thottathil, John K., to E. R. Squibb & Sons, Inc. Process for preparing 7-oxabicycloheptane amino-alcohol intermediates useful in making thromboxane A2 receptor antagonists. 4,687,865, 8-18-87, Cl. 549-463.000.
Thottathil, Paulose P.: *See*—
Horowitz, Carl; Ryan, John M.; Sanduja, Mohan L.; Sugathan, Kenneth K.; and Thottathil, Paulose P., 4,683,007, Cl. 106-308.00M.
Thrall Car Manufacturing Company: *See*—
Baker, William R., 4,667,604, Cl. 105-378.000.
Baker, William R.; Marulic, Walter J.; and Robertson, James C., 4,677,918, Cl. 105-378.000.
Blunden, Donald J., 4,668,140, Cl. 410-10.000.
Blunden, Donald J., 4,674,929, Cl. 410-30.000.
Blunden, Donald J., 4,679,974, Cl. 410-30.000.
Harris, William H.; Klag, James P.; and Lam, Joseph W., 4,681,041, Cl. 105-355.000.
Thrane, David T.: *See*—
Turpin, Edward T.; and Thrane, David T., 4,639,299, Cl. 204-181.700.
Thrash, Robert J.; and Connolly, John F., to Amoco Corporation. Electrolyte additive for lithium-sulfur dioxide electrochemical cells. 4,643,958, 2-17-87, Cl. 429-105.000.
Thrash, Tommy K., to Sunbelt America Corporation. Lignocellulose comminution and classification. 4,670,944, 6-9-87, Cl. 19-58.000.
Threadgill, James A., to Master Chemical Corporation. Liquid separator. 4,652,372, 3-24-87, Cl. 210-242.300.
Threadgill, James A., to Master Chemical Corporation. Tap lubricating system. 4,708,539, 11-24-87, Cl. 408-61.000.
Three Bond Co., Ltd.: *See*—
McGinniss, Vincent D., 4,638,035, Cl. 525-384.000.
Miyauchi, Yukio; Nakagawa, Yuichi; Kurihara, Makoto; and Hayashi, Norifumi, 4,702,939, Cl. 427-195.000.
3 T S p.A.: *See*—
Borromeo, Lucio, 4,676,120, Cl. 74-551.100.
Borromeo, Lucio, 4,693,627, Cl. 403-24.000.
Threlkel, Richard S., to Chevron Research Company. Olefin oligomerization process and catalyst. 4,677,241, 6-30-87, Cl. 585-526.000.
Thring, Robert H., to Southwest Research Institute. Multicylinder catalytic engine. 4,715,326, 12-29-87, Cl. 123-3.000.
Thro, Dennis E.; and Nierenberg, Mort J., to RCA Corporation. Deflection yoke centering apparatus. 4,650,436, 3-17-87, Cl. 445-63.000.
Thro, Dennis E., to RCA Corporation. Device for locating and orienting objects. 4,667,945, 5-26-87, Cl. 269-234.000.
Thro, Stuart W., to Motorola, Inc. Data communications system transmitter selection method and apparatus. 4,670,906, 6-2-87, Cl. 455-56.000.
Throckmorton, Morford C., to Goodyear Tire & Rubber Company, The; Enichimica S.p.A.; and Enichem Polimeri S.p.A. Molecular weight modifier for use with lanthanide and actinide catalysts. 4,663,405, 5-5-87, Cl. 526-144.000.
Throckmorton, Peter E.: *See*—
Scaccia, Carl; Fisher, Dennis H.; and Throckmorton, Peter E., 4,644,015, Cl. 521-129.000.
Thrower, Eugene S.: *See*—
Baker, Harold R.; Thrower, Eugene S.; and Simpson, David C., 4,690,779, Cl. 252-546.000.
Thrush, Ted K., to Portavideo International, Inc. Protective carrying case for video cassette apparatus and method of enclosing thereof. 4,669,001, 5-26-87, Cl. 360-33.100.
Thual, Jacques G. Sundial arrangement. 4,656,748, 4-14-87, Cl. 33-270.000.
Thubeaville, Heinz: *See*—
Tietze, Jurgen; Danguillier, Wilhelm; Thubeaville, Heinz; Pohl, Siegfried; and Muller, Friedrich, 4,708,196, Cl. 165-47.000.
Thue, Sverre: *See*—
Skarsvaag, Kristian; Sunde, Andreas J.; and Thue, Sverre, 4,683,759, Cl. 73-861.040.
Thuen, Ted, to Breed Corporation. Cantilevered soft landing boat loader for semiconductor processing furnaces. 4,671,726, 6-9-87, Cl. 414-182.000.
Thukakoshi, Thuneo: *See*—
Nakagawa, Akio; Ohashi, Hiromichi; Yamaguchi, Yoshihiro; Watanabe, Kiminori; and Thukakoshi, Thuneo, 4,672,407, Cl. 357-23.400.
Thukral, Prem S.: *See*—
Bollands, Martin A.; Pike, William C.; Thukral, Prem S.; and Woolmington, Timothy P., 4,715,455, Cl. 175-402.000.
Thulin, Robert, to Nabisco Brands, Inc. Apparatus for co-extrusion of a dough mass having dissimilar inner and outer portions. 4,648,821, 3-10-87, Cl. 425-133.100.
Thulin, Robert; Ross, Robert E.; and Polifroni, Nicholas, to Nabisco Brands, Inc. Apparatus for co-extrusion of a dough mass with particulate matter in the outer dough. 4,698,000, 10-6-87, Cl. 425-133.100.
Thulin, Robert R., to Nabisco Brands, Inc. Apparatus for continuously forming latticed pastry goods. 4,678,418, 7-7-87, Cl. 425-115.000.
Thulin, Willis, to Industri AB Thule. Device for carrying a load. 4,688,706, 8-25-87, Cl. 224-329.000.
Thulke, Wolfgang: *See*—
Amann, Markus-Christian; Mahlein, Hans F.; Stegmueller, Bernhard; Thulke, Wolfgang; Winzer, Gerhard; and Wolff, Ulrich, 4,656,636, Cl. 372-50.000.
Thumm, Helmut: *See*—
Bahr, Theodor; Thumm, Helmut; and Musselmann, Walter, 4,634,059, Cl. 241-46.00B.
Thumm, Klaus A.: *See*—
Neumann, Irving H.; Stobb, Walter J.; Silva, Robert M.; and Thumm, Klaus A., 4,636,139, Cl. 414-786.000.
Thummel, Rudolph C.: *See*—
Schurter, Rolf; Thummel, Rudolph C.; Topfl, Werner; Meyer, Willy; and Durr, Dieter, 4,664,695, Cl. 71-92.000.
Thun, Alfred H. Bicycle pedal bearing assembly. 4,651,590, 3-24-87, Cl. 74-594.100.
Thun, Inc.: *See*—
Sharon, Wilfred J., 4,635,503, Cl. 74-594.200.
Thunberg, Allen L.; and Reczek, James A., to Eastman Kodak Company. Analytical compositions, elements and methods utilizing reduction of ferric ion chelates to form detectable dyes. 4,701,420, 10-20-87, Cl. 436-94.000.
Thunberg, Allen L.: *See*—
Frickey, Paul H.; Sanford, Karl J.; Dappen, Glen M.; Thunberg, Allen L.; Sundberg, Michael W.; and Danielson, Susan J., 4,670,381, Cl. 435-007.000.
Thunberg, Stefan L. G.: *See*—
Fey, Maurice G.; Wolf, Charles B.; and Thunberg, Stefan L. G., 4,668,853, Cl. 219-121.0PN.
Thune-Eureka A/S: *See*—
Berggren, Torsten L., 4,684,073, Cl. 241-247.000.
Thurakal, Philip J.: *See*—
Malka, Jacob H.; and Thurakal, Philip J., 4,677,581, Cl. 364-571.000.
Thurber, Charles R., Jr., to Intersil, Inc. Dual slope converter with large apparent integrator swing. 4,656,459, 4-7-87, Cl. 340-347.0NT.
Thurber, Charles R., Jr., to Intersil, Inc. Charging circuit for a reference capacitor. 4,658,198, 4-14-87, Cl. 320-1.000.
Thurgood, Brian E.: *See*—
Lindgren, James R.; Thurgood, Brian E.; and Watter, James B., 4,703,885, Cl. 228-263.150.
Thuries, Edmond, to Alsthom. Double-acting, compressed gas, high tension circuit breaker with actuating energy assisted by the thermal effect of the arc. 4,649,243, 3-10-87, Cl. 200-148.00A.
Thuries, Edmond; and Perret, Michel, to Alsthom. Compressed gas, high tension circuit breaker, with operating energy assisted by the thermal effect of the arc. 4,650,941, 3-17-87, Cl. 200-148.00A.
Thuries, Edmond; Masson, Jean-Paul; and Malik, Louis, to Alsthom-Atlantique. Connector for a telescopic isolating switch. 4,715,834, 12-29-87, Cl. 439-842.000.
Thuries, Edmond: *See*—
Dumont, Pierre; and Thuries, Edmond, 4,670,973, Cl. 29-631.000.
Pham, Van Doan; and Thuries, Edmond, 4,698,469, Cl. 200-148.00E.
Yanabu, Satoru; Mizoguchi, Hitoshi; Ikeda, Hisatoshi; Suzuki, Katsumi; Toyoda, Mitsuru; and Thuries, Edmond, 4,665,289, Cl. 200-148.00A.
Thurin, Jan: *See*—
Lloyd, Kenneth O.; Old, Lloyd J.; Karlsson, Karl-Anders; Larson, Goran; Stromberg, Nicklas; Thurin, Jan; Anger, Bernd R.; and Oettgen, Herbert F., 4,678,747, Cl. 435-7.000.
Thurlow, Norman C.; and Hruda, Robert M., to Westinghouse Electric Corp. Process and system for detecting and measuring a tritium gas leak. 4,683,749, 8-4-87, Cl. 73-40.700.
Thurlow, Sandra S.: *See*—
Marcade, Roque D.; Thurlow, Sandra S.; Bookout, Donald W.; and Tershak, Andrew T., 4,646,528, Cl. 62-127.000.
Thurman, Daniel M. Computerized airspace control system. 4,706,198, 11-10-87, Cl. 364-439.000.
Thurman, Glenn A., to Colonial Rubber Works, Inc. Method of preparing a polymer for cross-link rotational molding and a polymer prepared by said method. 4,703,093, 10-27-87, Cl. 525-387.000.
Thurman, Richard E.: *See*—
Bennett, Glenn E.; Look, Raymond J.; Dola, Frank P.; Thurman, Richard E.; and Siwinski, Paul P., 4,680,423, Cl. 174-36.000.
Gilliam, Kenneth R.; Look, Raymond J.; and Thurman, Richard E., 4,663,098, Cl. 264-104.000.
Thurmond, Gary D.: *See*—
Gee, Caroline M.; and Thurmond, Gary D., 4,690,488, Cl. 350-96.120.
Thurnau, Edwin H.: *See*—
McQueen, Coy E.; Twedt, Lynn O.; and Thurnau, Edwin H., 4,637,446, Cl. 160-207.000.
Thurner, Helmut, to Bayrisches Druckgusswerk Thurner GmbH & Co. Trim press. 4,665,785, 5-19-87, Cl. 83-98.000.
Thurow, Eberhard: *See*—
Ross, Cyrus A.; and Thurow, Eberhard, 4,685,375, Cl. 86-20.150.
Ross, Cyrus A.; and Thurow, Eberhard, 4,693,763, Cl. 149-8.000.
Thurow, Gerhard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic shock absorber with rolling bellows. 4,657,229, 4-14-87, Cl. 267-64.270.
Thurow, Horst, to Hoechst Aktiengesellschaft. Aqueous protein solutions which are stable towards denaturing, processes for their preparation and their use. 4,637,834, 1-20-87, Cl. 106-124.000.

Thurston, Christopher F.: *See*—
Bennetto, Hugh P., Delaney, Gerard M., Mason, Jeremy R.; Stirling, John L., Roller, Sibel; Thurston, Christopher F.; and White, Donald R., Jr., 4,652,501, Cl. 429-2.000.

Thurston, Marlin O., to R. H. Burton Company. Position detector. 4,687,928, 8-18-87, Cl. 250-231.0SE.

Thurston, Marlin O.: *See*—
Zofan, Ely S.; and Thurston, Marlin O., 4,684,927, Cl. 340-384.00E.

Thurston, Robert D.: *See*—
Lockett, George E.; and Thurston, Robert D., 4,644,750, Cl. 60-641.200.

Thuy, Pham D.; and Vanypre, Dominique, to SFENA-Societe Francaise d'Equippements pour la Navigation Aereenne. Process for smoothing the curves generated in a television scanning system. 4,698,768, 10-6-87, Cl. 364-521.000.

Thwaites, Michael J.: *See*—
Hockley, Peter J.; and Thwaites, Michael J., 4,665,428, Cl. 357-58.000.
Hockley, Peter J.; and Thwaites, Michael J., 4,665,504, Cl. 365-163.000.

Thwaites, Peter J., to Dufaylite Developments Limited. Intumescent materials. 4,649,089, 3-10-87, Cl. 428-913.000.

Thy Plast I/S: *See*—
Peschardt, Preben; and Poulsen, Jorgen, 4,660,735, Cl. 220-276.000.

Thyes, Marco: *See*—
Himmele, Walter; Wiersdorff, Walter-Wielart; and Thyes, Marco, 4,656,282, Cl. 546-150.000.
Rossy, Phillip A.; Thyes, Marco; Franke, Albrecht; Koenig, Horst; Lehmann, Hans Dieter; Gries, Josef; Friedrich, Ludwig; and Lenke, Dieter, 4,636,504, Cl. 514-252.000.
Steiner, Gerd; and Thyes, Marco, 4,661,591, Cl. 540-495.000.

Thyfault, Ronald. Method of making wheat wine. 4,675,192, 6-23-87, Cl. 426-12.000.

Thygesen, Soren, to Micaform A/S. Method and apparatus for applying a coat of adhesively bonded expanded mineral grains to a surface of a structure. 4,689,249, 8-25-87, Cl. 427-180.000.

Thylen, Lars H.; and Djupsjobacka, Anders G., to Telefonaktiebolaget LM Ericsson. Method and apparatus for increasing the bandwidth of a high speed modulator. 4,658,224, 4-14-87, Cl. 332-7.510.

Thyren, Carl H.; and Hesthamar, Tore, to Enpece AB. Method and apparatus for volume measurement. 4,713,966, 12-22-87, Cl. 73-149.000.

Thyssen Aktiengesellschaft: *See*—
Rellermeyer, Heinrich; and Kaas, Werner, 4,645,184, Cl. 266-81.000.

Thyssen Industrie AG: *See*—
Eisenmann, Rolf, 4,649,731, Cl. 72-352.000.
Haupl, Otmar, 4,640,198, Cl. 105-168.000.
Holzinger, Gerhard; Meins, Jurgen; and Miller, Luitpold, 4,636,667, Cl. 310-13.000.
Kreiskorte, Ing. H., 4,682,498, Cl. 73-618.000.
Meins, Juergen, 4,636,666, Cl. 310-13.000.
Miller, Luitpold; and Raschbichler, Hans-Georg, 4,641,586, Cl. 104-284.000.
Miller, Luitpold; and Raschbichler, Hans G., 4,698,895, Cl. 29-464.000.
Piepenbreier, Ernst, 4,664,037, Cl. 105-131.000.
Raschbichler, Hans-Georg, 4,665,329, Cl. 310-13.000.
Schreckenberg, Klaus, 4,667,564, Cl. 89-1.130.

Thyssen Stahl AG: *See*—
Frings, Adam; and Prange, Wilfried, 4,650,954, Cl. 219-121.0LD.
Pircher, Hans; Bentz, Werner; and Tegethoff, Alfred, 4,645,720, Cl. 428-683.000.

Thyzel, Reinhardt: *See*—
Schroder, Eckhard; and Thyzel, Reinhardt, 4,652,092, Cl. 350-463.000.
Schroder, Eckhard; and Thyzel, Reinhardt, 4,702,245, Cl. 128-303.100.

TI Gas Spares Limited: *See*—
Barnes, Hugh V., 4,709,687, Cl. 126-42.000.

TI New World Limited: *See*—
Gostelow, Benjamin F., 4,653,463, Cl. 126-39.00H.

Tiba, Omar; and Culbertson, Billy M., to Ashland Oil, Inc. Resin from phenolic and oxazoline using phosphorous acid ester as catalyst. 4,699,970, 10-13-87, Cl. 528-141.000.

Tibbals, E. C., Jr. Compound knitting needle. 4,696,170, 9-29-87, Cl. 66-120.000.

Tibbals, E. C., Jr. Circular weft knitting machine. 4,711,100, 12-8-87, Cl. 66-55.000.

Tibbals, Edward C., Jr. Earthquake tremor responsive shut off valve. 4,688,592, 8-25-87, Cl. 137-38.000.

Tibbals, Edward C., Jr., to Loeffler, William R. Single ball traction drive assembly. 4,700,581, 10-20-87, Cl. 74-198.000.

Tibbals, Edward C., Jr. Speed change device. 4,715,249, 12-29-87, Cl. 74-800.000.

Tibes, Ulrich; Weischer, Carl H.; Hettche, Helmut; Breuel, Hans-Peter; and Gunesch, Dietmar, to Degussa Aktiengesellschaft. Combination of flutiritin and anticholinergic acting spasmolytic. 4,668,684, 5-26-87, Cl. 514-277.000.

Tibor, Gergely: *See*—
Egon, Janosdeak; Tibor, Gergely; and Janos, Szabo, 4,708,226, Cl. 188-251.00A.

Tiburtius, Christoph; Marx, Anna; Buschhaus, Hans-Ulrich; and Findeisen, Kurt, to Bayer Aktiengesellschaft. Sizing agent for glass fibers. 4,659,753, 4-21-87, Cl. 523-209.000.

Tibussek, Fritz, to Wirth Maschinen- und Bohrgerate-Fabrik GmbH. Tool member for a rotary drilling tool. 4,637,659, 1-20-87, Cl. 299-89.000.

Tice, Robert G.: *See*—
Richmond, James W.; Tice, Robert G.; and Booth, William M., III, 4,655,754, Cl. 604-323.000.

Tice, Thomas R.: *See*—
Kent, John S.; Lewis, Danny H.; Sanders, Lynda M.; and Tice, Thomas R., 4,675,189, Cl. 424-490.000.
Magrath, Joseph M.; Tice, Thomas R.; Meyers, William E.; and Dappert, Thomas O., 4,696,258, Cl. 119-1.000.

Tice, William A. Card feeding apparatus. 4,677,923, 7-7-87, Cl. 112-104.000.

Ticehurst, Roy M.; and Watson, Joseph L., to Davy McKee (Poole) Limited. Lubrication of rolling mills. 4,709,568, 12-1-87, Cl. 72-201.000.

Tichenor, Hardy: *See*—
Asbo, Einar L.; and Tichenor, Hardy, 4,646,351, Cl. 382-3.000.

Tick, Paul A., to Corning Glass Works. Optical elements made from ThF_4—BeF_2 glasses. 4,668,641, 5-26-87, Cl. 501-37.000.

Tickle, John D.: *See*—
Anderson, Roger A.; Goodman, James L.; Tickle, John D.; and Liskey, A. Keith, 4,653,953, Cl. 403-268.000.

Tickner, Derek C.: *See*—
Kortschinski, Juri; Lat, Michael V.; Maurice, Claude G.; and Tickner, Derek C., 4,710,847, Cl. 361-125.000.

Tickner, Ernest G.: *See*—
Rasor, Julia S.; and Tickner, Ernest G., 4,657,756, Cl. 424-9.000.
Rasor, Julia S.; and Tickner, Ernest G., 4,681,119, Cl. 128-660.000.

Ticknor, Anthony J.: *See*—
Stefanov, Michael E.; Sullivan, Brian J.; and Ticknor, Anthony J., 4,637,725, Cl. 356-354.000.

Ticks, Gerd-Heinz: *See*—
Idigkeit, Werner; Kurr, Klaus; and Ticks, Gerd-Heinz, 4,638,983, Cl. 267-140.100.
Rohner, Gerhard; Schweikert, Wilh; and Ticks, Gerd-Heinz, 4,678,203, Cl. 280-707.000.

Tideberg, Robert. Hydraulic brake bleeding apparatus. 4,655,328, 4-7-87, Cl. 188-352.000.

Tidewater Compression Service, Inc.: *See*—
Ashton, Robert, 4,653,986, Cl. 417-243.000.

Tidewater Industrial Components, Inc.: *See*—
Burke, David D., 4,701,192, Cl. 55-213.000.

Tidman, Derek A.: *See*—
Goldstein, Yeshayahu S. A.; Tidman, Derek A.; Burton, Rodney L.; Massey, Dennis W.; and Winsor, Niels K., 4,715,261, Cl. 89-8.000.

Tidquist, John C.; and Weisberg, Herbert B., to Weisberg, Herbert B. Composition and method for de-installing asbestos coatings. 4,699,666, 10-13-87, Cl. 134-4.000.

Tidstam, Goran: *See*—
Lundberg, Krister; Tidstam, Goran; and Pope, Daniel F., 4,641,969, Cl. 356-343.000.

Tidwell, John H. Air cleaning system. 4,673,422, 6-16-87, Cl. 55-248.000.

Tidy Cham Pty. Ltd.: *See*—
Mitchell, Francoise E. L., 4,690,288, Cl. 211-113.000.

TIE/Communications, Inc.: *See*—
Butler, James E., 4,667,142, Cl. 320-6.000.
Korsky, Vincent V.; and Keenan, Ronald M., 4,679,228, Cl. 379-165.000.
Korsky, Vincent V.; and Pajer, Raymond T., 4,715,062, Cl. 379-390.000.
Tosto, Roger J., 4,674,118, Cl. 379-393.000.

Tieben, James B. Seed cleaner. 4,699,713, 10-13-87, Cl. 209-315.000.

Tiede, Edward. Self propelled auger and separable vehicle therefor. 4,714,149, 12-22-87, Cl. 198-312.000.

Tiede, Helge, to August Kuhne, Firma. Sailboat having at least two hulls. 4,702,186, 10-27-87, Cl. 114-39.000.

Tiede, James. Hideaway vehicle step. 4,708,355, 11-24-87, Cl. 280-166.000.

Tiedemann, Helmut: *See*—
Crumbach, Richard; Gillner, Manfred; Schulde, Heinz J.; and Tiedemann, Helmut, 4,707,208, Cl. 156-285.000.

Tiedje, J. Thomas: *See*—
Abeles, Benjamin; Eberhardt, Wolfgang U.; and Tiedje, J. Thomas, 4,684,565, Cl. 428-220.000.
Deckman, Harry W.; Stephens, Richard B.; Tiedje, J. Thomas; and Abeles, Benjamin, 4,701,366, Cl. 428-188.000.

Tiedje, Thomas J.; and Abeles, Benjamin, to Exxon Research & Engineering Co. Proximity doping of amorphous semiconductors. 4,642,144, 2-10-87, Cl. 148-175.000.

Tiedke, Herman W. B.: *See*—
Burke, Raymond W.; Tiedke, Herman W. B.; and Barton, Brian C., 4,673,054, Cl. 180-271.000.

Tiefel, Thomas H.: *See*—
Jin, Sungho; Mottine, John J., Jr.; Sherwood, Richard C.; and Tiefel, Thomas H., 4,644,101, Cl. 178-18.000.

Tiefenthaler, Edelbert, to Sulzer Brothers Limited. Solenoid valve having a power amplifier. 4,697,619, 10-6-87, Cl. 137-613.000.

Tiegel Manufacturing Co.: *See*—
Wegner, Paul C., 4,685,415, Cl. 118-58.000.

Tiegs, Del V.; and Tiegs, Randy G. One-piece split boot for universal joint. 4,676,513, 6-30-87, Cl. 277-212.0FB.

Tiegs, Randy G.: *See*—
Tiegs, Del V.; and Tiegs, Randy G., 4,676,513, Cl. 277-212.0FB.

Tiegs, Terry N., to United States of America, Energy. Method for preparing configured silicon carbide whisker-reinforced alumina ceramic articles. 4,652,413, 3-24-87, Cl. 264-66.000.
Tiegs, Terry N.: *See*—
Becher, Paul F.; and Tiegs, Terry N., 4,657,877, Cl. 501-89.000.
Tieleman, Edward J., to Linco Holland Engineering B.V. Stretching mechanism of a device for cutting slaughtered poultry. 4,683,616, 8-4-87, Cl. 17-11.000.
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Jacobs, Pierre A.; Tielen, Mia; and Uytterhoeven, Jan B., 4,656,149, Cl. 502-35.000.
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Stoutamire, Donald W.; and Tieman, Charles H., 4,681,947, Cl. 544-370.000.
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Tiemann, James P. Helicopter blade and the like stand-off and folding device. 4,712,978, 12-15-87, Cl. 416-1.000.
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Blank, Richard E.; Tien, Albert F.; and Amith, Avraham, 4,708,677, Cl. 445-3.000.
Tien, Kuang-Yung. Wrench; socket. 4,646,594, 3-3-87, Cl. 81-121.100.
Tien, Ming: *See*—
Farrell, Roberta L.; Kirk, Thomas K.; and Tien, Ming, 4,687,741, Cl. 435-189.000.
Tien, Zu-Jean, to International Business Machines Corporation. Laser luminescence monitor for material thickness. 4,713,140, 12-15-87, Cl. 156-626.000.
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Geerts, Wilhelmus H. M.; Stok, Filippus L.; and Tienkamp, Engbert, 4,709,260, Cl. 358-51.000.
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Collins, Raymond F.; Knowles, Philip; Saunders, Libert C.; Tierney, Francis J.; and Warne, Peter J., 4,647,569, Cl. 514-340.000.
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Roche, John L.; and Tiers, George V. D., 4,645,714, Cl. 428-458.000.
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Tietjen, Donald L.; and Cruess, Michael W., to Motorola, Inc. Method and apparatus for interfacing buses of different sizes. 4,683,534, 7-28-87, Cl. 364-200.000.
Tietjens, Eduard W., to U.S. Philips Corporation. Shaving apparatus. 4,707,923, 11-24-87, Cl. 30-346.510.
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Mohring, Edgar; Muller, Hanns P.; Roessler, Peter; Wagner, Kuno; and Tietz, Helmet, 4,684,728, Cl. 544-182.000.
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Andrei-Alexandru, Marcel; Kofink, Wolfgang; Schmid, Eckhardt; and Tietz, Volker, 4,698,560, Cl. 318-54.000.
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Tietz, Werner; and Kruhn, Jurgen, to Zeiss Ikon Aktiengesellschaft. Magnetic lock. 4,662,197, 5-5-87, Cl. 70-276.000.
Tietze, Armin R.: *See*—
Rossi, Eva-Maria; and Tietze, Armin R., 4,693,908, Cl. 427-130.000.
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Fohr, Robert D.; and Tieze, Jeffrey E., 4,682,813, Cl. 297-192.000.
Tiffany, Burris D.; Nichols, Steve; Meulman, Paul A.; Hylton, Thomas A.; and Lipton, Michael F., to Upjohn Company, The. Non-hygroscopic adinazolam methanesulfonate salt and process therefor. 4,684,725, 8-4-87, Cl. 540-565.000.
Tiffany, Carlton R. Rainbow projector. 4,681,402, 7-21-87, Cl. 350-286.000.
Tiffany, James J., to Newell Co. Display product and package combination. 4,682,690, 7-28-87, Cl. 206-305.000.
Tiffin, Patrick J.; and Watkins, Baxter R., to Rosenberg, Gordon W. Stair-climbing wheelchair with means for cushioning vertical movements thereof. 4,671,369, 6-9-87, Cl. 180-8.100.
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Tigelaar, Howard L.; Riemenschneider, Bert R.; and Paterson, James L., to Texas Instruments Incorporated. Electrically erasable programmable read only memory cell including trench capacitor. 4,713,677, 12-15-87, Cl. 357-23.500.
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Weishaupt, Walter; Tigges, Michael; and Proske, Arnost, 4,652,860, Cl. 340-539.000.
Tighe, Charles I., Jr., to AMP Incorporated. High density coaxial cable connector. 4,660,918, 4-28-87, Cl. 339-97.00P.
Tighe, Charles I., Jr., to AMP Incorporated. Ribbon coax cable connector. 4,693,539, 9-15-87, Cl. 439-465.000.
Tighe, Laurence E.; and Bhatia, Sushil, to Dennison Manufacturing Company. Heat transferable laminate. 4,704,310, 11-3-87, Cl. 427-261.000.
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Turin, Paul S.; Teslawski, Georg; and Tight, Dexter C., Jr., 4,667,081, Cl. 215-121.0LV.
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Saarinen, Olli; Tihverainen, Paavo; Rinne, Seppo; and Mehto, Lauri, 4,646,494, Cl. 52-232.000.
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Walker, Michael D., 4,677,665, Cl. 379-386.000.
TII Industries, Inc.: *See*—
Pagliuca, Emanuel J., 4,701,825, Cl. 361-119.000.
Tiitto, Seppo E., to American Stress Technologies, Inc. Barkhausen noise method for stress and defect detecting in hard steel. 4,634,976, 1-6-87, Cl. 324-240.000.
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Lamalle, Jean; and Tijne, Jean-Louis, 4,698,031, Cl. 425-189.000.
Tijunelis, Donatas: *See*—
Patun, Ronald J.; and Tijunelis, Donatas, 4,685,867, Cl. 417-367.000.
Tikes, Jacques: *See*—
Kuntzmann, Jean C.; and Tikes, Jacques, 4,684,908, Cl. 333-252.000.
Tiku, Shiban K.: *See*—
Gabriel, Nancy J. S.; Yuan, Han-Tzong; and Tiku, Shiban K., 4,672,414, Cl. 357-34.000.
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Janoff, Andrew S.; Rauch, Joyce; and Tilcock, Colin P. S., 4,666,831, Cl. 435-13.000.
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Denton, Medona B.; and Tilden, Scott B., 4,688,942, Cl. 356-432.000.
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Hoppner, Klaus; Tilders, Benno; Wehle, Anton; and Wolf, Gunter, 4,662,071, Cl. 30-381.000.
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Pletcher, Gary; Henderson, Robert C.; Tiley, Robert; and Cesaro, Michael J., 4,658,491, Cl. 29-423.000.
Tilghman, Stephen E.; Duncan, Richard L.; and Kaufman, Bruce A., to Halliburton Company. Method of testing and addressing a magnetic core memory. 4,669,082, 5-26-87, Cl. 371-21.000.
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Forehand, Gilbert H.; Lynch, Michael J.; Duncan, Richard L.; Tilghman, Stephen E.; and Penn, Jack C., 4,709,234, Cl. 340-856.000.
Lynch, Michael J.; Forehand, Gilbert H.; Duncan, Richard L.; Tilghman, Stephen E.; and Penn, Jack C., 4,665,398, Cl. 340-853.000.
Tilgner, Hans G.; and Schmitz, Franz J., to Akzo Nv. Process for reducing alcohol in fermented beverages by means of dialysis. 4,664,918, 5-12-87, Cl. 426-14.000.
Tilgner, Leopold; Scholer, Jurgen; Sautter, Sieghart; and Vogel, Jurgen, to SKF Gleitlager GmbH. Method and apparatus for making ball and socket joints incorporating a slip liner. 4,691,422, 9-8-87, Cl. 29-149.50B.
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Loser, Norbert; Tilgner, Leopold; and Scholer, Jurgen, 4,708,499, Cl. 384-539.000.
Tilidetzke, Steven J.: *See*—
Humble, David R.; Gentzler, David L.; and Tilidetzke, Steven J., 4,676,343, Cl. 186-61.000.
Tiljander, Ossi, to Oy Partek AB. Hydraulic motor with stationary axle and rotating fluid distributor. 4,700,613, 10-20-87, Cl. 91-485.000.
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Radvan, Bronislaw; and Till, Andrew, 4,690,860, Cl. 428-290.000.

Till, Henry R.: Warner, Fredrick A.; and Radulski, Charles A., to Xerox Corporation. Intermediate transfer apparatus. 4,684,238, 8-4-87, Cl. 355-10.000.
Till, Henry R.: *See*—
Radulski, Charles A.; and Till, Henry R., 4,690,539, Cl. 355-3.0TR.
Till, Morris C. Fish scaler. 4,667,372, 5-26-87, Cl. 17-67.000.
Till, Wolfgang: *See*—
Ehrmann-Falkenau, Ekkehard; Veith, Richard; and Till, Wolfgang, 4,673,901, Cl. 333-196.000.
Tillander, Hans: *See*—
Ekbladh, Fred Vage G.; and Tillander, Hans, 4,671,791, Cl. 604-133.000.
Tillay, Michael J. Intraocular lens with shape memory alloy haptic/optic and method of use. 4,666,445, 5-19-87, Cl. 623-6.000.
Tiller, Newton G.: *See*—
Hodo, James D.; Moore, Dennis R.; Morris, Thomas F.; and Tiller, Newton G., 4,676,110, Cl. 73-809.000.
Tilles, David J.: *See*—
Jones, Steven P.; and Tilles, David J., 4,644,633, Cl. 29-566.300.
Tilles, Harry: *See*—
Buren, Lawrence L.; James, Donald R.; Randolph, Barney J.; Teach, Eugene G.; Tilles, Harry; and Walker, Francis H., 4,695,314, Cl. 71-100.000.
Tilles, Robert S.; Nenakhov, Sergei S.; and Savinykh, Vitaly V. Apparatus for discharging free-flowing and viscous materials from a belt conveyor. 4,651,867, 3-24-87, Cl. 198-524.000.
Tilles, Robert S.: *See*—
Nenakhov, Sergei S.; Tilles, Robert S.; Savinykh, Vitaly V.; Dyakov, Vladimir A.; and Nikitin, Vladimir V., 4,675,076, Cl. 198-525.000.
Savinykh, Vitaly V.; Tilles, Robert S.; Yakhontov, Jury A.; and Krasnov, Vladimir A., 4,650,065, Cl. 198-828.000.
Tilley, Jefferson W.: *See*—
Mullin, John G., Jr.; Nakamura, Keiji; Tilley, Jefferson W.; and Watanabe, Hiroshi, 4,696,930, Cl. 514-256.000.
Tilliette, Zephyr, to Commissariat a l'Energie Atomique. Water-sodium steam generator with straight concentric tubes and gas circulating in the annular space. 4,633,819, 1-6-87, Cl. 122-32.000.
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Tillman, Alfred J., to Moog, Inc. Time-delay valve. 4,681,135, 7-21-87, Cl. 137-489.500.
Tillman, Christopher D., to Orbital Research Partners, L.P. Reconfigurable standard switch panel. 4,685,029, 8-4-87, Cl. 361-349.000.
Tillman, Horst; and Sieg, Giselher, to Dorma-Baubeschlag GmbH & Co. KG. Door closer. 4,660,250, 4-28-87, Cl. 16-58.000.
Tillmann, Dittmar K., to Haworth, Inc. Switchable receptacle unit. 4,666,223, 5-19-87, Cl. 339-32.00R.
Tillmann, Horst; and Sieg, Giselher, to Dorma-Baubeschlag GmbH & Co. KG. Door check. 4,658,468, 4-21-87, Cl. 16-53.000.
Tillner, Alfred; and Hedenberg, Conny. Method and apparatus for fitting covers to body structures. 4,675,962, 6-30-87, Cl. 29-91.100.
Tillotson, John G. Method for coating a secondary carpet backing. 4,661,380, 4-28-87, Cl. 427-207.100.
Tillotson, John G. Method for forming a layer of blown cellular urethane on a carpet backing. 4,715,912, 12-29-87, Cl. 156-79.000.
Tillotson, Ltd.: *See*—
Scott, William A., 4,684,485, Cl. 261-35.000.
Scott, William A.; and Dull, Carl, 4,711,744, Cl. 261-64.400.
Tillotson, Richard: *See*—
Knapp, Ronald H.; and Tillotson, Richard, 4,671,566, Cl. 297-16.000.
Tilly, Peter E., to Rockwell International Corporation. Adaptive analog variable limiter. 4,716,374, 12-29-87, Cl. 328-169.000.
Tilman, Paul A.: *See*—
Boeckmann, Hugo; Huff, Glenn E.; and Tilman, Paul A., 4,708,245, Cl. 206-330.000.
Tilman, Paul L. J. Claw extractor. 4,648,166, 3-10-87, Cl. 29-252.000.
Tilney, Catherine. Food exchanges kit, and methods of constructing and utilizing same. 4,689,019, 8-25-87, Cl. 434-127.000.
Tilsley, Gwilym J.: *See*—
Whinray, David T.; and Tilsley, Gwilym J., 4,680,723, Cl. 364-571.000.
Tilstone, Arthur D.: *See*—
McCreery, James F.; and Tilstone, Arthur D., 4,685,844, Cl. 407-114.000.
Tilt-Lock, Inc.: *See*—
Cullen, Paul R.; and Schroeder, Peter J., 4,687,244, Cl. 294-66.410.
Tim-Bar Corporation: *See*—
Cline, Thomas L., 4,671,556, Cl. 296-97.00R.
Timalara Pty. Limited: *See*—
Waterhouse, John C., 4,633,996, Cl. 198-372.000.
Timar, John; Mohammed, Sheikh A. H.; and Walker, John, to Polysar Limited. Pneumatic tire inner liner having puncture sealing characteristics. 4,665,963, 5-19-87, Cl. 152-504.000.
Timar, Tibor; Zsupan, Kalman; Repasi, Janos; Borwos nee Safranek, Iren; Kiss, Istvan; Fodor, Amdras; and Maroy, Peter, to Alkaloida Vegyeszeti Gyar. Chromene derivatives useful as insecticides. 4,716,238, 12-29-87, Cl. 549-408.000.
Timar, Tibor: *See*—
Hosztafi, Sandor; Timar, Tibor; Salamon, Zoltan; Fabian nee Orban, Ilona; and Nagy nee Vajda, Julianna, 4,647,694, Cl. 562-443.000.
Timari, Jali. Release mechanism for rifles. 4,662,098, 5-5-87, Cl. 42-69.010.
Timber Textures (UK) Limited: *See*—
Cottingham, Richard L., 4,701,355, Cl. 427-317.000.
Timberland Company, The: *See*—
Beck, Guy, 4,658,516, Cl. 36-59.00B.
Timberline Software Corporation: *See*—
Peltz, Curtis L.; Martin, George F.; and Blake, Peter H., 4,716,542, Cl. 364-900.000.
Time and Data Systems International Limited: *See*—
Rudland, Peter E., 4,678,898, Cl. 235-468.000.
Time Video Information Services, Inc.: *See*—
Jacobson, Dov, 4,695,832, Cl. 340-709.000.
Timeback Systems, Inc.: *See*—
Nelson, Robert G., 4,683,456, Cl. 340-347.0AD.
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Timesavers, Inc.: *See*—
David, Eugene C., 4,651,474, Cl. 51-134.000.
Stump, Lee E., 4,635,405, Cl. 51-145.00T.
Stump, Lee E., 4,640,056, Cl. 51-139.000.
Timex Corporation: *See*—
Egger, Joseph; and Sedlak, Adolf, 4,657,408, Cl. 368-327.000.
Reichel, Judith, 4,653,933, Cl. 368-282.000.
Sedlak, Adolf; and Stotz, Gerhard, 4,679,944, Cl. 368-157.000.
Wuthrich, Paul, 4,647,218, Cl. 368-157.000.
Wuthrich, Paul, 4,668,101, Cl. 368-296.000.
Wuthrich, Paul, 4,700,091, Cl. 310-49.00R.
Timgren, Carl J., to Perlow Oy. Cuvette set for blood analysis. 4,696,799, 9-29-87, Cl. 422-102.000.
Timineri, Anthony A., to Nissho Iwai American Corporation. Antenna positioning apparatus. 4,691,207, 9-1-87, Cl. 343-766.000.
Timkin, Alexei F.: *See*—
Yantsen, Ivan A.; Bekishev, Kenes K.; Savchak, Orest G.; Klok, Alexandr B.; Zhanabaev, Tolgat M.; Pakshtas, Mechislav-Valentinas K.; Glotov, Boris N.; Fink, Garold K.; Timkin, Alexei F.; Zorin, Nikolai I.; and Bobylev, Leonid M., 4,658,913, Cl. 173-134.000.
Timm, Edward E., to Dow Chemical Company, The. Apparatus for preparing large quantities of uniform size drops. 4,666,671, 5-19-87, Cl. 422-135.000.
Timm, Hans Fries, Soren; and Wenzlaff, Axel, to GKSS-Forschungszentrum Geesthacht GmbH. Apparatus for desalination and purification of water by reverse osmosis and ultrafiltration. 4,689,149, 8-25-87, Cl. 210-321.100.
Timm, Jurgen: *See*—
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Timm, Klaus: *See*—
Ehle, Joachim; Timm, Klaus; and Ahlers, Heinfried, 4,682,741, Cl. 173-99.000.
Timman, Dale: *See*—
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Timme, William F. Auxiliary stimulation apparatus for apnea distress. 4,694,839, 9-22-87, Cl. 128-721.000.
Timmer, George R.; and Brown, Scott W. Endless, agricultural, belted-chain conveyor with provision for attaching crop-protecting sprocket-run covers. 4,653,632, 3-31-87, Cl. 198-803.010.
Timmer, Hans H.; and Reichel, Wolfgang, to Ingenieurburo Timmer GmbH. System for controlling the temperature of rooms. 4,683,941, 8-4-87, Cl. 165-47.000.
Timmer, Robert C.: *See*—
Cotter, David H.; Teerman, Richard F.; and Timmer, Robert C., 4,684,067, Cl. 239-533.300.
Timmerman, Hendrik; and Van der Goot, Henderikus, to Akzo N.V. Quinazoline and isoquinoline derivatives. 4,694,000, 9-15-87, Cl. 514-187.000.
Timmerman, Tom; and Chapman, Norman V. Piston apparatus. 4,694,785, 9-22-87, Cl. 123-52.00A.
Timmermann, Uwe: *See*—
Herkert, Hans; and Timmermann, Uwe, 4,698,628, Cl. 340-825.020.
Timmermans, Franciscus W. A.; and Kuiper, Bernardus A., to U.S. Philips Corporation. Television camera. 4,646,141, 2-24-87, Cl. 358-50.000.
Timmermeister, Dieter M., to Tri-D-Automotive Industries, Ltd. Compact catalytic converter. 4,693,335, 9-15-87, Cl. 181-231.000.
Timmers, Richard E. Method and apparatus for carrying a load with a motor vehicle. 4,646,952, 3-3-87, Cl. 224-42.07.
Timmers, Richard E. Auxiliary seat. 4,681,367, 7-21-87, Cl. 297-232.000.
Timmins, David H.: *See*—
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Timmons, Donald: *See*—
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Timmons, Gloria A.: *See*—
Timmons, John W.; and Timmons, Gloria A., 4,708,446, Cl. 351-158.000.
Timmons, John W.; and Timmons, Gloria A., to Engineered Specialty Products. Eyeglass frame and nasal cannula assembly. 4,708,446, 11-24-87, Cl. 351-158.000.
Timmons, Michael B., to Cornell Research Foundation, Inc. Environmental control system for poultry houses. 4,700,887, 10-20-87, Cl. 236-49.000.

Timmons, Richard J., to O. M. Scott and Sons Company, The. Sulfur-based encapsulants for fertilizers. 4,636,242, 1-13-87, Cl. 71-28.000.
Timmons, Robert D. Process for making a molded porous fluoroplastic resin material. 4,692,287, 9-8-87, Cl. 264-41.000.
Timmons, Sheila. *See*—
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Hawiger, Jack J.; Timmons, Sheila; and Kloczewiak, Marek. 4,666,884, Cl. 514-13.000.
Hawiger, Jack J.; Timmons, Sheila; and Kloczewiak, Marek. 4,703,039, Cl. 514-21.000.
Timms, Graham H.: *See*—
Horwell, David C.; and Timms, Graham H., 4,705,807, Cl. 514-650.000.
Timper, Joachim: *See*—
Cremosnik, Gregor; Timper, Joachim; and Holzberger, Johann. 4,709,875, Cl. 244-3.130.
Timpson, Alma A., Jr.; and Rachal, Richard N., to Baraw Corporation. Seal assembly with stabilizing ribs. 4,687,212, 8-18-87, Cl. 277-205.000.
Timte, Frank W., to Ford Motor Company. Control valve system for a four speed ratio automatic transmission including a dual range regulator valve for controlling independently two upshift ratio changes. 4,633,738, 1-6-87, Cl. 74-869.000.
Tindall, David, to Spectus Limited. Fluid injectors. 4,705,330, 11-10-87, Cl. 239-125.000.
Tindall, Robert J., to Kirsch Technologies, Inc. Computer memory back-up. 4,652,944, 3-24-87, Cl. 360-37.100.
Tinder, David V., to United Technologies Automotive, Inc. Heat sink mounting arrangement for a semiconductor. 4,707,726, 11-17-87, Cl. 357-81.000.
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Tinfos Jernverk A/S: *See*—
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Ting, Chang-Sheng: *See*—
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Ting, Chiu H.: *See*—
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Baerg, William; Ting, Chiu H.; Siu, Byron B.; and Tzeng, J. C., 4,700,454, Cl. 437-24.000.
Ting, Patrick L.: *See*—
Cowles, John M.; Goldstein, Henry; Chicoye, Etzer; and Ting, Patrick L., 4,644,084, Cl. 568-341.000.
Ting, Raymond M. L. Aluminum plate curtain wall structure. 4,685,263, 8-11-87, Cl. 52-235.000.
Ting, Raymond M. L. Side joint of composite metal panel. 4,700,520, 10-20-87, Cl. 52-478.000.
Ting, Sai-Pei: *See*—
Aycock, David F.; and Ting, Sai-Pei, 4,642,358, Cl. 549-245.000.
Bates, Gary M.; Chambers, Gregory R.; and Ting, Sai-Pei, 4,681,915, Cl. 525-148.000.
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Ting, Youn H.: *See*—
Ruszczyk, Vicki V.; and Ting, Youn H., 4,646,051, Cl. 337-107.000.
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Hurley, John L.; Puzo, Joseph D.; and Tingey, Rosa F., 4,716,074, Cl. 428-220.000.
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Hoover, Bobby R.; and Fanning, Roy G., 4,647,107, Cl. 297-124.000.
Tingley, Eddie S., to Novus Inc. Glass scratch removal method. 4,709,513, 12-1-87, Cl. 51-283.00R.
Tingley, William C. Boat guide. 4,684,145, 8-4-87, Cl. 280-414.100.
Tinker, Alan C.: *See*—
Baxter, Andrew J. G.; Dixon, John; Gould, Kenneth J.; and Tinker, Alan C., 4,686,217, Cl. 514-210.000.
Ince, Francis; and Tinker, Alan C., 4,657,929, Cl. 514-524.000.
Tinkler, Michael R. Apparatus for creating water sports ramp. 4,662,781, 5-5-87, Cl. 405-79.000.
Tinkler, Michael R.: *See*—
Tinkler, Robert C.; and Tinkler, Michael R., 4,649,847, Cl. 114-39.000.
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Tinner, Friedrich, to Cetec AG. Shut-off apparatus. 4,669,701, 6-2-87, Cl. 251-56.000.
Tinnerino, Natale F., to Perkin-Elmer Corporation, The. Misregistration/distortion correction scheme. 4,668,982, 5-26-87, Cl. 358-101.000.
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Huffman, Samuel J.; and Tinsley, Joel R., 4,676,990, Cl. 426-634.000.
Tinsley, Paul J. Annulus access valve system. 4,645,006, 2-24-87, Cl. 166-374.000.
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Rutherford, William; and Tinson, David J., 4,661,245, Cl. 209-399.000.
Tinti, Aldo A., to Avco Corporation. Stator assembly for gas turbine engine. 4,710,097, 12-1-87, Cl. 415-138.000.
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Tinus, Edward J. Seat rebuilding. 4,685,738, 8-11-87, Cl. 297-452.000.
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Tioxide Group PLC: *See*—
Kay, Peter D.; and Girot, Michael C., 4,659,848, Cl. 556-24.000.
Kay, Peter D.; and Girot, Michael C., 4,705,568, Cl. 106-26.000.
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Tipke, Jim, 4,669,743, Cl. 280-42.000.
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Sani, Mehdi H.; and Tipon, Donald G., 4,656,372, Cl. 307-475.00.
Sanwo, Ikuo J.; Lauffer, Donald K.; and Tipon, Donald G., 4,704,549, Cl. 307-475.000.
Tipper Tie, Inc.: *See*—
Evans, Alfred J.; Misner, Raymond H.; Gallion, James A.; and Harrod, Melvin L., 4,675,945, Cl. 17-33.000.
Evans, Alfred J.; and Sarginger, Francis E., 4,683,700, Cl. 53-138.00R.
Tippetts, Ronald B.: *See*—
Miller, Larry J.; Wells, Richard K.; and Tippetts, Ronald B., 4,644,195, Cl. 307-518.000.
Tippetts, Thomas B.; and Cycon, Michael F., Jr., to Garrett Corporation, The. Compact piezoelectric fluidic air supply pump. 4,648,807, 3-10-87, Cl. 417-322.000.
Tippie, John W.: *See*—
Hayes, Michael L.; Mahr, Paul S.; and Tippie, John W., 4,713,770, Cl. 364-474.000.
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Bews, Brian; Critchley, Peter; Durrant, James A.; Stebles, Malcolm R. D.; and Tipping, Leigh R. H., 4,659,560, Cl. 424-47.000.
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DiFrank, Frank J.; and Tipping, Mark R., 4,686,931, Cl. 118-50.000.
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Connolly, Richard S., 4,675,974, Cl. 29-527.700.
Tippmann, Heinz: *See*—
Schachner, Herbert; Tippmann, Heinz; Lux, Benno; Stjernberg, Klas G.; and Thelin, Anders G., 4,707,384, Cl. 427-249.000.
Tipton, Craig D., to Lubrizol Corporation, The. Polymeric compositions comprising olefin polymer and nitrogen containing ester of a carboxy interpolymer. 4,654,403, 3-31-87, Cl. 525-194.000.
Tipton, Lance W., to Thermo Plastic Research Co., Ltd. Process and apparatus for stretching tubular extruded plastic material. 4,711,751, 12-8-87, Cl. 264-159.000.
Tipton Manufacturing Corporation: *See*—
Kobayashi, Hisamine; and Izuhara, Katsuhiro, 4,638,600, Cl. 51-164.200.
Kobayashi, Hisamine; and Izuhara, Katsuhiro, 4,664,431, Cl. 292-260.000.
Kobayashi, Hisamine; and Kato, Atsushi, 4,665,661, Cl. 51-313.000.
Tipton, Russell C.: *See*—
Dutton, Edmund L.; Selfridge, Glenn D.; and Tipton, Russell C., 4,701,415, Cl. 435-289.000.
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Bartos, Josef A., 4,705,090, Cl. 152-417.000.
Tirel, Malcolm D.; and Long, William E., to Ciba-Geigy AG. Pyrazolidinone salts as developing agents. 4,687,846, 8-18-87, Cl. 544-140.00.
Tirelli, Marco; Lecolant, Rene; and Hecquet, Raoul, to Thomson-CGR. Process for the production of a multidetector with ionization chambers. 4,715,917, 12-29-87, Cl. 156-250.000.
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Markusch, Peter H.; Rosthauser, James W.; and Tirpak, Robin E., 4,701,480, Cl. 523-340.000.
Tisbo, Cosmo N.; and Tisbo, Thomas A., to Suncast Corporation. Edging strip. 4,644,685, 2-24-87, Cl. 47-33.000.
Tisbo, Thomas A.: *See*—
Tisbo, Cosmo N.; and Tisbo, Thomas A., 4,644,685, Cl. 47-33.000.
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Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Polonsky, Vladimir M.; Tischenko, Valentina A.; Tare,

Mikhail I.; Bespalova, Zhanna D.; and Pekelis, Boris L., 4,698,419, Cl. 530-329.000.
Tischer, Alessandro, to U.S. Philips Corporation. System for increasing the brightness of a multibeam dot-pattern cathode ray display tube. 4,713,657, 12-15-87, Cl. 340-748.000.
Tischer, Alfred. Combination instrument for laparoscopical tube sterilization. 4,655,216, 4-7-87, Cl. 128-303.170.
Tischer, James C. Integral slide valve-oil separator apparatus in a screw compressor. 4,662,190, 5-5-87, Cl. 62-470.000.
Tischer, James C.: *See*—
Lakowske, Rodney; Tischer, James C.; and Eber, David H., 4,662,819, Cl. 415-129.000.
Tischer, Kurt M.; Schlipf, Michael; Lesiak, P. Dieter; and Wengert, Rolf, to Standard Elektrik Lorenz Aktiengesellschaft. Adjustment apparatus for video display device and method therefor. 4,708,678, 11-24-87, Cl. 445-24.000.
Tischer, Kurt-Manfred, to Standard Elektrik Lorenz Aktiengesellschaft. Implosion protection for video reproducing device. 4,709,272, 11-24-87, Cl. 358-247.000.
Tischer, Ragnar P.; Winterbottom, Walter L.; and Wroblowa, Halina S., to Ford Motor Company. Method of making a current collector for a sodium/sulfur battery. 4,649,022, 3-10-87, Cl. 419-24.000.
Tise, Frank P., to Hercules Incorporated. Plasma developable photoresist compositions containing N-substituted 3-vinylcarbazoles. 4,659,648, 4-21-87, Cl. 430-272.000.
Tishken Products Co.: *See*—
Lash, Edward G.; Levy, Roger; and Gleason, Everett, 4,685,367, Cl. 83-626.000.
Tishura, Vladimir I.: *See*—
Lebedev, Vladimir K.; Chernenko, Ivan A.; Dyshlenko, Alexandr T.; Litvin, Leonid V.; and Tishura, Vladimir I., 4,712,724, Cl. 228-112.000.
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Tisma, Steven, 4,713,928, Cl. 53-526.000.
Tisma, Steven, to Tisma Machine Corporation. Automatic packaging machine for closing over filled boxes. 4,713,928, 12-22-87, Cl. 53-526.000.
Tison, Eric, to Codimag. Method and device for high speed printing. 4,688,485, 8-25-87, Cl. 101-426.000.
Tisserand, Philippe; and Daffini, Jean-Pierre, to R. J. Fullwood & Bland Ltd. Milking and feeding stall. 4,633,813, 1-6-87, Cl. 119-14.040.
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Vuilleumier, Cyril; and Erni, Bruno, 4,634,287, Cl. 368-27.000.
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Horvath, Peter; and Destics, Rudolph, 4,668,933, Cl. 338-134.000.
Tiszai, Gyorgy: *See*—
Baviere, Marc; Moulu, Jean-Claude; Paal, Tibor; Tiszai, Gyorgy; Gaal, Gyorgyi; Schmidt, Laszlo; and Gesztesi, Gyula, 4,648,451, Cl. 166-273.000.
Titan Manufacturing Co. Pty. Ltd., The: *See*—
Hamilton, Richard J. W., 4,708,550, Cl. 411-3.000.
Titanium Metals Corporation of America (TIMET): *See*—
Bania, Paul J., 4,678,506, Cl. 75-10.250.
Titchenal, Oliver R., to Basic Packaging Systems, Inc. Square ended valve bag. 4,685,148, 8-4-87, Cl. 383-37.000.
Titchener, Mark, to Research Corporation. Method of and/or apparatus for encoding and decoding sequential information in data handling systems. 4,670,890, 6-2-87, Cl. 375-110.000.
Titcombe, Ian R. A.; and Strange, Ian A., to Raychem Limited. Electrical crimp connection. 4,707,566, 11-17-87, Cl. 174-78.000.
Titeflex Corporation: *See*—
Lalikos, James M., 4,653,780, Cl. 285 276.000.
Lalikos, James M.; Gazda, Chester T.; and O'Melia, Lawrence, 4,675,221, Cl. 428-36.000.
Lalikos, James M.; and Waite, Harold K., 4,712,642, Cl. 181-207.000.
Titemore, Robert G.; and Patnode, Robert A., to General Electric Company. Ammunition feed system interface. 4,662,263, 5-5-87, Cl. 89-33.140.
Titley, Mark C., to British Aerospace PLC. Fin assembly deployment spring. 4,709,876, 12-1-87, Cl. 244-328.000.
Titmas, Richard C.: *See*—
Baker, Terence S.; Powell, Michael J.; and Titmas, Richard C., 4,716,109, Cl. 435-7.000.
Titolo, Andrea, to Fiat Auto S.p.A. Oleodynamic valve, particularly for a hydraulic tappet. 4,662,324, 5-5-87, Cl. 123-90.560.
Titolo, Andrea, to Fiat Auto S.p.A. Tappet system for internal combustion engines having shafts with variable-profile cams. 4,693,214, 9-15-87, Cl. 123-90.180.
Titone, Milo A.: Titone, Simone C.; and Czajka, John, to Davol, Inc. Cerclage device. 4,667,662, 5-26-87, Cl. 128-92.0YD.
Titone, Simone C.: *See*—
Titone, Milo A.; Titone, Simone C.; and Czajka, John, 4,667,662, Cl. 128-92.0YD.
Titov, Boris K.: *See*—
Birjukov, Vasily D.; Kolganenko, Vladimir V.; Tsaregradsky, Vsevolod V.; Darovsky, Vladimir G.; and Titov, Boris K., 4,699,364, Cl. 269-303.000.
Titov, Mikhail I.: *See*—
Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Titov, Mikhail I.; Penin, Vladimir A.; Giorgadze, Alexandr K.; Titova, Galina P.; Bespalova, Zhanna D.; Pekelis, Boris L.; Permyakov, Nikolai K.; Emelyanov, Sergei I.; and Dzhikia, Alexandr A., 4,695,622, Cl. 530-329.000.
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Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Titov, Mikhail I.; Penin, Vladimir A.; Giorgadze, Alexandr K.; Titova, Galina P.; Bespalova, Zhanna D.; Pekelis, Boris L.; Permyakov, Nikolai K.; Emelyanov, Sergei I.; and Dzhikia, Alexandr A., 4,695,622, Cl. 530-329.000.
Tittel, Frank K.: *See*—
Nighan, William L.; Tittel, Frank K.; and Wilson, William L., Jr., 4,646,311, Cl. 372-60.000.
Nighan, William L.; Tittel, Frank K.; and Wilson, William L., Jr., 4,660,210, Cl. 372-60.000.
Tittel, Hans: *See*—
Bensussen, Isaac M.; and Tittel, Hans, 4,638,692, Cl. 81-9.410.
Titti, Otello U.; Cesta, Patrick P.; Mitsopoulos, Thomas H.; and Wheeler, Alan G., to Valvoline Oil & Chemicals Ltd. Production of plastic foam material with gas-release control agent. 4,689,352, 8-25-87, Cl. 521-88.000.
Tittizer, Gabriel; Junghans, Ewald; Bestenreiner, Georg; and Dahm, Christian, to Interatom GmbH. Double-conical static pressure-type gas bearing. 4,710,034, 12-1-87, Cl. 384-110.000.
Tittizer, Gabriel, to Interatom GmbH. Gas bearing. 4,715,731, 12-29-87, Cl. 384-100.000.
Tittlebaum, Marty E.: *See*—
Stegall, William A.; and Tittlebaum, Marty E., 4,664,795, Cl. 210-202.000.
Tittler, Philip: *See*—
Hook, Sidney J.; Tittler, Philip; and Walley, Gerald D., 4,646,202, Cl. 361-382.000.
Tittmann, Bernhard R.: *See*—
Greenfeld, Albert R.; Reis, Herbert; and Tittmann, Bernhard R., 4,698,058, Cl. 604-266.000.
Titus, Frank. Cyclone filter with all metal filtering candle. 4,680,038, 7-14-87, Cl. 55-302.000.
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Davis, Ronald I.; Phalangas, Charalambos J.; and Titus, George R., 4,645,794, Cl. 525-61.000.
Davis, Ronald I.; Phalangas, Charalambos J.; and Titus, George R., 4,690,817, Cl. 424-70.000.
Restaino, Alfred J.; Phalangas, Charalambos J.; and Titus, George R., 4,689,217, Cl. 424-70.000.
Titus, Hubert W. Diaper and infant accessory caddy. 4,685,559, 8-11-87, Cl. 206-35.000.
Titus, John D.; and Hall, Phillip E., to Motorola, Inc. Electro-explosive safety and arming device. 4,691,634, 9-8-87, Cl. 102-245.000.
Titus, John D., to Motorola, Inc. Fuze actuating method having an adaptive time delay. 4,694,752, 9-22-87, Cl. 102-215.000.
Titus, John D.: *See*—
Bai, Monty W.; Titus, John D.; and Farace, Louis P., 4,673,777, Cl. 200-61.45R.
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Schaus, John M.; and Titus, Robert D., 4,659,832, Cl. 546-83.000.
Schaus, John M.; and Titus, Robert D., 4,698,347, Cl. 514-293.000.
Titus, Terry C.: *See*—
Thomas, Ronald L.; Titus, Terry C.; and Brandon, Craig A., 4,716,044, Cl. 426-51.000.
Titus, Ward S.: *See*—
Tajima, Yusuke; Pucel, Robert A.; and Titus, Ward S., 4,662,000, Cl. 455-333.000.
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George, Benjamin B., Jr., 4,665,470, Cl. 362-236.000.
Tizzi, Valtiero. Process for the manufacture of semi-finished polychrome composites from thin gage metals, and a semi-finished composite obtained with such a process. 4,666,790, 5-19-87, Cl. 428-614.000.
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Tjenstrom, Brian: *See*—
Cohen, Mordehy; Bettenga, James L.; and Tjenstrom, Brian, 4,683,984, Cl. 184-6.200.
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Schneider, Wayne A.; Morse, Margaret S.; and Tjoelker, John, 4,644,343, Cl. 343-767.000.
Tjoeng, Foe S.; Fok, Kam F.; and Adams, Steven P., to Monsanto Company. Synthetic atrial peptides. 4,716,147, 12-29-87, Cl. 514-11.000.
Tjumanok, Alexei N.; Tamm, Yaan V.; and Sarandi, Jury L., to Talinsky Politekhnichesky Institut. Disintegrator. 4,653,700, 3-31-87, Cl. 241-79.100.
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Gurkov, Konstantin S.; Kostylev, Alexandr D.; Tkachenko, Gennady A.; Leonov, Ivan P.; and Klimashko, Vladimir V., 4,637,476, Cl. 173-136.000.

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Golubenko, Alexandr L.; Turchin, Viktor P.; Konyaev, Alexei N.; Sukhov, Igor N.; Kaljuzhny, Nikolai N.; Filonov, Arkady S.; Koropets, Alexei P.; Pinovsky, Mikhail I.; Tkachenko, Viktor P.; and Kramar, Nikolai M., 4,635,990, Cl. 295-11.000.

Tkaczyk, Richard J.: *See*—
Iadipaolo, Rene M.; and Tkaczyk, Richard J., 4,678,920, Cl. 250-560.000.

Tkatchenko, Igor; Jaouhari, Rabih; Bonnet, Michel; Dawkins, Gordon; and Lecolier, Serge, to Societe Nationale des Poudres et Explosifs. Process for the synthesis of isocyanates and of isocyanate derivatives. 4,709,087, 11-24-87, Cl. 560-339.000.

TL Systems Corporation: *See*—
Trechsel, Hans W., 4,640,448, Cl. 222-636.000.

Tleuov, Murat G.: *See*—
Aubakirov, Marat T.; Limanov, Esengali L.; Syzdykov, Askar K.; Abdrazakov, Ravil S.; Tleuov, Murat G.; Khazhuer, Vladimir S.; Buzdov, Ruslan D.; and Khashirov, Vladislav K., 4,681,174, Cl. 175-330.000.

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Zverina, Karel; Tluchor, Denek; Szabo, Josef; Polidor, Jaromir; and Kroupa, Petr, 4,639,570, Cl. 219-121.0PP.

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Hasegawa, Yoshihiko; and Miyata, Osamu, 4,715,225, Cl. 73-215.000.

TMC Corporation: *See*—
Freisinger, Henry; and Stritzl, Karl, 4,699,397, Cl. 280-633.000.
Himmetsberger, Alois; Pavlovec, Radko; Wittmann, Heinz; Wuerthner, Hubert; Szasz, Tibor; Liedl, Kurt; and Erdei, Roland, 4,681,339, Cl. 280-633.000.
Leichtfried, Friedrich; Wuerthner, Hubert; and Himmetsberger, Alois, 4,684,146, Cl. 280-626.000.
Luschnig, Franz; Wuerthner, Hubert; Kaineder, Herbert; and Leichtfried, Fritz, 4,699,398, Cl. 280-633.000.
Nowak, Gerhard; Winter, Alfred; Morbitzer, Hans P.; Kruschik, Klaus; and Theuer, Rudolf, 4,691,936, Cl. 280-615.000.
Spitaler, Engelbert; and Freisinger, Henry, 4,664,406, Cl. 280-632.000.
Spitaler, Engelbert, 4,681,338, Cl. 280-628.000.
Spitaler, Engelbert; and Wuerthner, Hubert, 4,688,820, Cl. 280-605.000.
Spitaler, Englebert; and Wuerthner, Hubert, 4,690,424, Cl. 280-633.000.
Stritzl, Karl; Freisinger, Henry; Luschnig, Franz; and Zotter, Johann, 4,647,065, Cl. 280-618.000.
Wittmann, Heinz, 4,662,648, Cl. 280-614.000.

Toa Harbor Works, Co., Ltd.: *See*—
Kishida, Takao; and Fukaya, Takeo, 4,640,118, Cl. 73-9.000.

Toa Medical Electronics Company Limited: *See*—
Fujimoto, Keiji; and Thom, Reinhard, 4,671,915, Cl. 264-162.000.
Matsuda, Noriaki; and Shinkai, Etsuro, 4,656,139, Cl. 436-17.000.

Toa Nenryo Kabushiki Kaisha: *See*—
Itaba, Yasushi; Yoshino, Tadao; Yoshifuji, Yutaka; Saito, Keichiro; and Tabuchi, Jyoichi, 4,673,619, Cl. 428-338.000.

Toa Nenryo Kogyo K.K.: *See*—
Itaba, Yasushi; Saito, Keichiro; Tabuchi, Jyoichi; and Yoshizawa, Masao, 4,705,714, Cl. 428-215.000.
Uenoyama, Yoshio; and Takazawa, Kiyoshi, 4,663,096, Cl. 264-40.600.

Toa Nenryo Kogyo Kabushiki Kaisha: *See*—
Arai, Mikiro; Isoda, Takeshi; and Funayama, Osamu, 4,659,850, Cl. 556-409.000.
Fuji, Shigeo; Mori, Shoichi; and Tabuchi, Jyoichi, 4,659,617, Cl. 428-221.000.
Fujita, Masahito; Kizaki, Masami; Miyazaki, Makoto; and Inaba, Naomi, 4,634,687, Cl. 502-121.000.
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Fujita, Masahito; Kizaki, Masami; Miyazaki, Makoto; and Inaba, Naomi, 4,716,206, Cl. 526-139.000.
Fujita, Yuji; Ikeda, Tadao; and Makishima, Tokuo, deceased, 4,634,740, Cl. 525-240.000.
Fujita, Yuji; and Yamamoto, Noboru, 4,657,980, Cl. 525-146.000.
Hirabayashi, Hideo; Endo, Masami; and Kokubo, Kakuro, 4,702,414, Cl. 239-4.000.
Hiroyuki, Furuhashi; Yamamoto, Tadashi; Imai, Masafumi; and Ueno, Hiroshi, 4,693,990, Cl. 502-116.000.
Imai, Masafumi; Yamamoto, Tadashi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,652,541, Cl. 502-119.000.
Imai, Masafumi; Yamamoto, Tadashi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,711,939, Cl. 526-124.000.
Inoue, Hiroshi; Miyazaki, Makoto; Isoi, Masaaki; and Yoda, Makoto, 4,684,578, Cl. 428-462.000.
Itaba, Yasushi; Yoshino, Tadao; Yoshifuji, Yutaka; Saito, Keichiro; and Tabuchi, Jyoichi, 4,636,340, Cl. 264-22.000.
Izumi, Takayuki; Naito, Tsutomu; Shinya, Masao; and Nomura, Tomio, 4,655,902, Cl. 208-22.000.
Kato, Masayuki; Taguchi, Yoshio; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,683,275, Cl. 526-262.000.
Kohora, Tadanao; Ucki, Satoshi; Tachikawa, Mamoru; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,647,550, Cl. 502-115.000.
Maejima, Tsugio; Kobayashi, Wataru; Ashibe, Kenji; Tagaya, Nobuaki; and Sakurada, Satoshi, 4,664,775, Cl. 208-89.000.
Makishima, Tokuo, deceased; Makishima, Nobuko, legal representative; Ueki, Satoshi, legal representative; and Imai, Chihiro, legal representative, 4,705,830, Cl. 525-333.400.
Maruyama, Kouji; Nomura, Takeshi; Ueno, Hiroshi; and Inaba, Naomi, 4,686,265, Cl. 526-125.000.
Nakamura, Teiji; Nishikawa, Eiichiro; and Koyama, Takeo, 4,691,070, Cl. 585-273.000.
Niwa, Tadashi; Kato, Masayuki; Taguchi, Yoshio; and Imai, Chihiro, 4,704,438, Cl. 525-333.300.
Saito, Makoto; Inoue, Hiroshi; and Yamamoto, Noboru, 4,704,196, Cl. 204-130.000.
Suzuki, Shigeo; Doi, Yoshiharu; and Soga, Kazuo, 4,695,557, Cl. 502-103.000.
Tachikawa, Mamoru; Ueki, Satoshi; Sakuma, Masato; Imai, Chihiro; and Makishima, Tokuo, 4,678,767, Cl. 502-104.000.
Tachikawa, Mamoru; Sakuma, Masato; Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, 4,686,199, Cl. 502-104.000.
Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,704,433, Cl. 525-242.000.
Uenoyama, Yoshio; Takazawa, Kiyoshi; and Izumi, Takayuki, 4,670,202, Cl. 264-39.000.
Yamamoto, Tadashi; Imai, Masafumi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,654,318, Cl. 502-119.000.
Yamamoto, Tadashi; Imai, Masafumi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,711,940, Cl. 526-124.000.

Toagosei Chemical Industry Co., Ltd.: *See*—
Kato, Hideki; Yamamoto, Noriyuki; Ogasawara, Takahisa, deceased; and Asai, Masami, deceased, 4,668,719, Cl. 523-458.000.
Niizuma, Hiroshi; Miki, Toshiro; Kojima, Shiro; Azuma, Koshiro; Kato, Hiroyuki; Murakami, Yuichi; and Ito, Tsutomu, 4,677,225, Cl. 562-599.000.
Okita, Tsutomu; Naruo, Kyoichi; Tsuji, Nobuo; Nakagawa, Teruo; Murase, Kiyoshi; and Ogasawara, Takahisa, 4,657,817, Cl. 428-425.900.
Uramoto, Yoshihito; Kaneko, Takasi; and Hirose, Toshio, 4,642,011, Cl. 411-258.000.

Toase, Barry; and Grant, David, to Eimco (Great Britain) Limited. Cable handling system. 4,667,782, 5-26-87, Cl. 191-12.00R.

Toba, Akira; and Mizusawa, Tsutomu, to Kabushiki Kaisha Toshiba. High speed reproduction method and apparatus. 4,656,537, 4-7-87, Cl. 360-73.000.

Toba, Hiroto: *See*—
Masaki, Takeshi; Kawata, Koichi; Sakaguro, Yukuo; Yamaguchi, Katsumasa; Kinoshiro, Hiromichi; and Toba, Hiroto, 4,701,591, Cl. 219-121.0LT.

Toba, Ritsuji: *See*—
Akahoshi, Haruo; Murakami, Kanji; Wajima, Motoyo; Kogawa, Kiyonori; Toba, Ritsuji; and Shimazaki, Takeshi, 4,642,161, Cl. 156-630.000.

Toba, Shigeru; Yoshida, Hirono; and Tokita, Takehiko, to Ajinomoto Co., Inc. Konjak mannan-containing reversible gel. 4,676,976, 6-30-87, Cl. 424-485.000.

Tobac Curing Systems Limited: *See*—
Watmough, Robert R.; and Timmins, David H., 4,706,447, Cl. 56-328.00R.

Tobacco Research and Development Institute Limited: *See*—
Strydom, Mauritz L., 4,702,263, Cl. 131-336.000.

Tobbe, William P.: *See*—
Kolenc, Terrence J.; Bork, Carl R., Jr.; Steiss, William C.; Shufflebarger, Earl D.; and Tobbe, William P., 4,684,106, Cl. 251-335.200.

Tobe, Akihiro: *See*—
Ninomiya, Kunihiro; Nitta, Issei; Tobe, Akihiro; Egawa, Misuo; and Kikumoto, Ryoji, 4,695,568, Cl. 514-258.000.

Tobe, Takashi, deceased: *See*—
Fujiwara, Ichinori; Kawashima, Kunikazu; and Tobe, Takashi, deceased, 4,663,709, Cl. 364-200.000.

Tobergte, Konrad: *See*—
Conrad, Horst; Tobergte, Konrad; and Schulze, Rainer, 4,707,563, Cl. 174-50.000.

Tobey, Richard D. Temporary door lock structure. 4,653,785, 3-31-87, Cl. 292-258.000.

Tobia, Alfonso J.: *See*—
Bandurco, Victor T.; Bell, Stanley C.; Combs, Donald W.; Falotico, Robert; and Tobia, Alfonso J., 4,639,518, Cl. 544-285.000.
Bandurco, Victor T.; Levine, Seymour D.; Mulvey, Dennis M.; and Tobia, Alfonso J., 4,656,267, Cl. 544-119.000.
Bandurco, Victor T.; Bell, Stanley C.; Falotico, Robert; Schwender, Charles F.; and Tobia, Alfonso J., 4,668,787, Cl. 544-286.000.
Bandurco, Victor T.; Bell, Stanley C.; Dodd, John H.; Falotico, Robert; Schwender, Charles F.; and Tobia, Alfonso J., 4,672,116, Cl. 544-286.000.
Bandurco, Victor T.; Schwender, Charles F.; Falotico, Robert; and Tobia, Alfonso J., 4,711,883, Cl. 514-253.000.

Kanojia, Ramesh M.; Falottico, Robert; Tobia, Alfonso J.; and Press, Jeffery B., 4,714,705, Cl. 514-309.000.
Tobias, Jackie L.; Kline, Larry R.; and Moser, Ted O., to General Motors Corporation. Method for alloying metals having significantly different melting points. 4,699,764, 10-13-87, Cl. 420-563.000.
Tobias, Lee A.: *See*—
Hendry, James D.; and Tobias, Lee A., 4,715,284, Cl. 102-434.000.
Tobias, Philip E. Ink transfer arrangement. 4,688,482, 8-25-87, Cl. 101-350.000.
Tobiasz, Andre , to Automotive Products plc. Vehicle brake pressure proportioning valve. 4,702,529, 10-27-87, Cl. 303-6.00C.
Tobin, Daniel R.: *See*—
Lasauskas, Patrick; and Tobin, Daniel R., 4,656,939, Cl. 101-35.000.
Tobin, Roderick C.; and Perry, Nigel D., to Monash University. Room temperature metal vapour laser. 4,641,313, 2-3-87, Cl. 372-56.000.
Tobin, Thomas J.: *See*—
Chabala, Leonard V.; Haarsma, John; O'Leary, Raymond P.; Roman, Christopher D.; and Tobin, Thomas J., 4,690,780, Cl. 252-572.000.
Ramos, Joel A.; Rogers, Edward J.; and Tobin, Thomas J., 4,677,262, Cl. 200-48.00A
Tobioka, Masaaki: *See*—
Ikegaya, Akihiko; and Toojoka, Masaaki, 4,675,206, Cl. 427-38.000.
Tobisawa, Yoshio; Kubota, Hitoshi; and Nakamura, Masatoshi, to Jidosha Kiki Co., Ltd. Supply passage for brake booster of positive pressure type. 4,664,016, 5-12-87, Cl. 91-369.00A.
Tobita, Etsuko: *See*—
Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; Kondo, Kiyosi; Akimoto, Akira; Seita, Toru; and Watanabe, Hiroyuki, 4,659,744, Cl. 521-32.000.
Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; and Kondo, Kiyoshi, 4,661,231, Cl. 204-252.000.
Tobita, Etsuo: *See*—
Nakahara, Yutaka; Haruna, Tohru; and Tobita, Etsuo, 4,670,492, Cl. 524-119.000.
Tobita, Hideaki; and Naruse, Kazuo, to Toyota Jidosha Kabushiki Kaisha. Car body assembling apparatus and method. 4,667,866, 5-26-87, Cl. 228-4.100.
Tobita, Hiroshi: *See*—
Okada, Hideo; Takeuchi, Masato; Okabe, Sigeru; Tobita, Hiroshi; Matsuda, Shimpei; Tamura, Kohki; and Nakajima, Fumito, 4,656,735, Cl. 29-623.100.
Tobita, Katsumi, to Alps Electric Co., Ltd. CATV converter having phase locked loop for sound carrier wave frequency control. 4,692,803, 9-8-87, Cl. 358-143.000.
Tobita, Michiaki: *See*—
Mouri, Hidemasa; Tobita, Michiaki; Eto, Naonobu; Kouno, Shunzo; Ohkura, Kosuke; Toganoh, Shigeo; Arai, Ryuichi; Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hiromi, 4,642,247, Cl. 427-214.000.
Tobita, Nobuyuki: *See*—
Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.
Tobita, Yoichi, to Mitsubishi Denki Kabushiki Kaisha. Constant voltage generating circuit. 4,670,706, 6-2-87, Cl. 323-313.000.
Tobita, Youichi, to Mitsubishi Denki Kabushiki Kaisha. Substrate potential generating circuit. 4,695,746, 9-22-87, Cl. 307-297.000.
Tobler, Karl: *See*—
Lodetti, Attilio; and Tobler, Karl, 4,709,130, Cl. 219-69.00W.
Tobler, Paul: *See*—
Punzar, Marianne; Marti, Franz; Mercier, Robert; Tobler, Paul; and Buttiker, Rudolf, 4,678,852, Cl. 544-194.000.
Tobol, Helen K.: *See*—
Ehr, Robert J.; Tobol, Helen K.; and Troxell, Lillian H., 4,670,045, Cl. 71-94.000.
Tobolski, Edward; Grosso, Ronald F.; Cieplak, Joseph; Lang, Elliot; and Hershberger, Ralph, to Page-Wilson Corporation. Digital tester for measuring the hardness of the material. 4,667,509, 5-26-87, Cl. 73-83.000.
Tobukuro, Kuniaki: *See*—
Odagiri, Nobuyuki; and Tobukuro, Kuniaki, 4,670,536, Cl. 528-229.000.
Tocci, Mario P.: *See*—
Gill, Frederick A.; and Tocci, Mario P., 4,637,951, Cl. 428-215.000.
Gill, Frederick A.; and Tocci, Mario P., 4,581,798, Cl. 428-215.000.
Tocco, Inc.: *See*—
Alexander, Jonathan W., 4,638,418, Cl. 363-49.000.
Hammond, Michael R.; and Vickers, Robert V., 4,659,892, Cl. 219-10.570.
Hammond, Michael R.; and Novorsky, Donald E., 4,714,809, Cl. 219-10.430.
Henry, Michael W., 4,700,036, Cl. 219-10.570.
Mucha, George M.; Novorsky, Donald E.; and Pfaffmann, George D., 4,675,488, Cl. 219-10.430.
Pfaffmann, George D., 4,637,844, Cl. 148-144.000.
Pfaffmann, George D., and Novorsky, Donald E., 4,675,057, Cl. 148-129.000.
Pfaffmann, George D., 4,704,252, Cl. 419-49.000.
Pfaffmann, George D., 4,715,907, Cl. 148-144.000.
Vickers, Robert V.; and Sachtjen, Peter D., 4,643,781, Cl. 148-127.000.
Vickers, Robert V., 4,673,784, Cl. 219-10.570.
Tochigi-Fuji Sangyo Kabushiki Kaisha: *See*—
Kataoka, Fumio, 4,667,534, Cl. 74-711.000.
Tochigifujisangyo Kabushikigaisha: *See*—
Teraoka, Masao; and Yuhashi, Yukio, 4,690,258, Cl. 192-58.00C.
Teraoka, Masao, 4,712,663, Cl. 192-58.00A.
Tochikawa, Kiyoshi, to Midori C.M.B. Co., Ltd. Molded articles of nonwoven fabric containing synthetic fiber and process for producing the same. 4,649,014, 3-10-87, Cl. 264-555.000.
Tochikubo, Osamu: *See*—
Kaneko, Yoshihiro; Tochikubo, Osamu; and Yokoi, Hiroyuki, 4,660,567, Cl. 128-682.000.
Tock, Richard W.: *See*—
Ethington, Don; Riley, Ray J.; and Tock, Richard W., 4,690,743, Cl. 204-168.000.
Tocksfors Verkstads AB: *See*—
Ahs, Wilgot, 4,670,725, Cl. 335-142.000.
Toda, Fumio; Okamoto, Masaru; and Mochizuki, Fujiaki, to Kurita Water Industries Ltd. Sustained release antimicrobial agents and methods of fouling control using the same. 4,644,021, 2-17-87, Cl. 523-122.000.
Toda, Haruki: *See*—
Magome, Koichi; Toda, Haruki; Koinuma, Hiroyuki; Sahara, Hiroshi; Suzuki, Kiminobu; Ohshima, Shigeo; and Komatsu, Kenji, 4,678,934, Cl. 307-279.000.
Toda, Junji; and Ogawa, Eiichi, to Nippon Kayaku Kabushiki Kaisha. Chromium complex compound. 4,667,021, 5-19-87, Cl. 534-625.000.
Toda, Katuhiko; and Sugiura, Susumu, to Canon Kabushiki Kaisha. Construction of lens barrel operated by electromagnetic induction. 4,676,605, 6-30-87, Cl. 350-429.000.
Toda, Kazuya: *See*—
Takematsu, Tetsuo; Suzuki, Akinori; Toda, Kazuya; and Goto, Masuo, 4,685,962, Cl. 71-118.000.
Toda Kogyo Corp.: *See*—
Nagai, Norimichi; Horiuchi, Nanao; Kiyama, Masao; and Takada, Toshio, 4,698,182, Cl. 252-62.590.
Toda, Masato; and Yabe, Hisao, to Olympus Optical Co., Ltd. Endoscopic apparatus with connecting means. 4,708,126, 11-24-87, Cl. 128-6.000.
Toda, Masayoshi; and Hamasaki, Seiichi, to Mitsubishi Denki Kabushiki Kaisha. Voltage-to-frequency converter circuit. 4,672,236, 6-9-87, Cl. 307-271.000.
Toda, Masumi; Ozaki, Yukio; and Nonaka, Shingo, to Shinagawa Refractories Co., Ltd. Nozzle for the gunning of monolithic refractories. 4,638,945, 1-27-87, Cl. 239-143.000.
Toda, Minoru, to RCA Corporation. Piezoelectric positioning device. 4,678,955, 7-7-87, Cl. 310-328.000.
Toda, Minoru, to RCA Corporation. Two lens optical package and method of making same. 4,705,351, 11-10-87, Cl. 350-96.180.
Toda, Shozo: *See*—
Hashimoto, Akira; Nishimura, Toshihiro; Nakayama, Muneo; Nakane, Hisashi; and Toda, Shozo, 4,694,040, Cl. 524-765.000.
Toda, Takao; Mizushima, Toshiaki; and Kashiwagi, Kazuo, to Canon Kabushiki Kaisha. Recording medium mark detector. 4,665,318, 5-12-87, Cl. 250-570.000.
Toda, Takezi: *See*—
Yamaguchi, Yoshimitsu; Shibata, Tadahiko; Suzuki, Masanori; and Toda, Takezi, 4,690,349, Cl. 242-75.500.
Toda, Yasuhiko: *See*—
Hamamoto, Toshikazu; Aoi, Motojirou; Yoshida, Kozaburo; and Toda, Yasuhiko, 4,677,026, Cl. 428-404.000.
Toda, Yasushi: *See*—
Sawada, Takeshi; Toda, Yasushi; and Goto, Hirokazu, 4,649,449, Cl. 360-123.000.
Toda, Yoshihiro: *See*—
Yamaguchi, Kimiaki; Nitta, Masahiro; Inoue, Kazuyuki; Hirose, Teruo; and Toda, Yoshihiro, 4,659,891, Cl. 219-10.55D.
Toda, Yuichi: *See*—
Sakamoto, Katsuji; Ohta, Akio; Toda, Yuichi; Suzuki, Shuzo; and Ide, Takashi, 4,676,635, Cl. 356-73.100.
Todaro, Frank A.; Castonguay, Roger N.; Krajewski, Alexander A.; and Morris, Robert A., to General Electric Company. Trip actuator for molded case circuit breakers. 4,679,019, 7-7-87, Cl. 335-172.000.
Todaro, Frank A.; Dziura, Richard A.; and Castonguay, Roger N., to General Electric Company. Combined trip unit and accessory module for electronic trip circuit breakers. 4,700,161, 10-13-87, Cl. 335-172.000.
Todaro, Frank A.; and Dougherty, John J., to General Electric Company. Circuit breaker with self-contained electronic trip actuator and undervoltage release control circuit. 4,706,158, 11-10-87, Cl. 361-92.000.
Todaro, George J.: *See*—
Iwata, Kenneth K.; Fryling, Charlotte M.; and Todaro, George J., 4,708,948, Cl. 514-2.000.
Shoyab, Mohammed; Marquardt, Hans; and Todaro, George J., 4,714,683, Cl. 436-547.000.
Twardzik, Daniel R.; and Todaro, George J., 4,645,828, Cl. 530-324.000.
Todd, Alan B. Unit point scoring system and scoreboard. 4,645,206, 2-24-87, Cl. 273-1.50R.
Todd, Alec: *See*—
Baker, Stephen R.; Jamieson, William B.; and Todd, Alec, 4,665,189, Cl. 548-252.000.
Todd, Christian A.; and Hart, William D., to Storage Technology Corporation. Fluid filter system with replaceable filter element. 4,682,993, 7-28-87, Cl. 55-314.000.
Todd, Craig C., to Dolby Laboratories Licensing Corporation. Error concealment system. 4,656,633, 4-7-87, Cl. 371-54.000.

Todd, Craig C.; and Gundry, Kenneth J., to Dolby Laboratories Licensing Corporation. Spectral emphasis and de-emphasis. 4,700,361, 10-13-87, Cl. 375-25.000.

Todd, Craig C.; and Gundry, Kenneth J., to Dolby Laboratories Licensing Corporation. A-D encoder and D-A decoder system. 4,700,362, 10-13-87, Cl. 375-30.000.

Todd, Donald W. Mailbox flag extension device. 4,697,733, 10-6-87, Cl. 232-34.000.

Todd, Frank: *See*—
Pascoe, Graham; Todd, Frank; and Kidd, Thomas F., 4,676,296, Cl. 164-303.000.

Todd, Harry V., to Toddco. Flexible pipe coupler. 4,660,860, 4-28-87, Cl. 285-12.000.

Todd, Harry V., to Toddco. Recreational vehicle discharge pipe adapter. 4,688,833, 8-25-87, Cl. 285-175.000.

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Bush, Austin L.; Apperson, Kenneth P.; and Todd, Jerald C., 4,667,502, Cl. 72-453.160.

Todd, Lamar S.; Kaiser, Robert H.; and Hilburger, Donald R., to Elkem Metals Company. Method for producing metal sulfide and the product produced therefrom. 4,676,970, 6-30-87, Cl. 423-561.00R.

Todd, Lee T., Jr.; and Kloss, Henry E., to Cathodochromic Partners, Ltd. Dual reflected energy beam alignment system. 4,669,069, 5-26-87, Cl. 367-96.000.

Todd, Lee T., Jr.; and Starkey, Cornelius J., IV, to Hilliard-Lyons Patent Management, Inc. Cathodochromic CRT erasure and tube set up method. 4,698,684, 10-6-87, Cl. 358-237.000.

Todd, Leonard M. Telephone answering programming devices. 4,645,875, 2-24-87, Cl. 379-70.000.

Todd, Mike J., to Multi-Clean, Inc. Air guard diffuser. 4,638,523, 1-27-87, Cl. 15-98.000.

Todd, Mike J.; and Palmer, Gary E., to Hako Minuteman, Inc. High speed floor burnisher. 4,715,087, 12-29-87, Cl. 15-385.000.

Todd, Mike J.: *See*—
Palmer, Gary E.; and Todd, Mike J., 4,701,976, Cl. 15-385.000.

Todd, Paul H., Jr.; and Guzinski, James A., to Kalamazoo Holdings, Inc. Hop flavor constituents adsorbed on fumed silicon dioxide. 4,647,464, 3-3-87, Cl. 426-423.000.

Todd, Paul H., Jr., to Kalamazoo Holdings, Inc. Separation of the constituents of CO_2 hop extracts. 4,666,731, 5-19-87, Cl. 426-600.000.

Todd, Peter L., to San Francisco Bay Area Rapid Transit District. Insulative protective device for rail fastener. 4,635,846, 1-13-87, Cl. 238-264.000.

Todd, Philip: *See*—
Andra, Bryan K.; Funk, Kent D.; Lang, Clyde J.; and Todd, Philip, 4,686,820, Cl. 56-341.000.

Todd, R. Joseph: *See*—
Stensaas, Larry J.; Todd, R. Joseph; and Triolo, Philip M., 4,662,884, Cl. 623-12.000.

Todd, Richard A.: *See*—
Ramsey, Roswitha S.; and Todd, Richard A., 4,705,947, Cl. 250-386.000.
Ramsey, Roswitha S.; and Todd, Richard A., 4,705,948, Cl. 250-386.000.

Todd, Richard S.: *See*—
Boyle, John T. A.; and Todd, Richard S., 4,640,920, Cl. 514-248.000.
Boyle, John T. A.; and Todd, Richard S., 4,695,574, Cl. 514-313.000.

Todd, Ronald C., to National Semiconductor Corporation. Self clocking CMOS latch. 4,644,185, 2-17-87, Cl. 307-279.000.

Toddco: *See*—
Todd, Harry V., 4,660,860, Cl. 285-12.000.
Todd, Harry V., 4,688,833, Cl. 285-175.000.
Todd, Harry V., 4,708,370, Cl. 285-12.000.

Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, to Toyama Chemical Co., Ltd. Process for producing 1-substituted aryl-1,4-dihydro-4-oxonaphthyridine derivatives, and processes for producing the intermediates. 4,704,459, 11-3-87, Cl. 546-123.000.

Todokoro, Akio: *See*—
Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,667,400, Cl. 29-825.000.
Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, 4,686,328, Cl. 174-153.00R.

Todokoro, Hideo: *See*—
Fukuhara, Satoru; and Todokoro, Hideo, 4,687,931, Cl. 250-310.000.
Ishitani, Tohru; Todokoro, Hideo; Kawanami, Yoshimi; and Tamura, Hifumi, 4,710,632, Cl. 250-396.00R.

Todokoro, Masatoshi, to Staff Co., Ltd. Scooping game toy. 4,650,192, 3-17-87, Cl. 273-1.0GG.

Todoriki, Itaru: *See*—
Hayashi, Yutaka; Itoh, Atsuo; and Iida, Hideyo, 4,649,857, Cl. 118-326.000.

Todoroki, Tsunehiko: *See*—
Yamamoto, Hiromasa; Shida, Sankichi; and Todoroki, Tsunehiko, 4,696,100, Cl. 29-605.000.

Todoroki, Yukio; Seto, Makoto; Yanagihara, Kimihiro; and Yano, Sadanari, to Mitsubishi Denki Kabushiki Kaisha. Device for driving an induction motor. 4,651,078, 3-17-87, Cl. 318-798.000.

Todorov, Dimiter B.: *See*—
Sabev, Sabi G.; Lasarov, Stefan D.; Todorov, Dimiter B.; Koparanova, Darina K.; and Hristov, Ivan B., 4,667,698, Cl. 137-596.130.

Todorov, Dimiter T.; Djudjev, Slavtcho G.; and Yarumov, Kiril D., to V M E I "Lenin". Converter of the rate of flow of a fluid. 4,672,854, 6-16-87, Cl. 73-861.330.

Todorov, Todor M.: *See*—
Jetcheva, Dimka I.; Todorov, Todor M.; and Stoichkova, Nedyalka M., 4,655,955, Cl. 252-105.000.

Todorovic, Radmilo A.: *See*—
Lu, Jing-Jong; and Todorovic, Radmilo A., 4,657,936, Cl. 514-758.000.

Todt, Klaus H.: *See*—
Biernoth, Gerhard; Menz, Hans-Udo; Todt, Klaus H.; and Wieske, Theophil, 4,716,047, Cl. 426-603.000.
Wieske, Theophil; Todt, Klaus H.; and Kleibeuker, Johan F., 4,702,928, Cl. 426-607.000.

Toebes, Wilhelmus G.: *See*—
Nijhuis, Henri G. B. O.; and Toebes, Wilhelmus G., 4,667,705, Cl. 139-439.000.

Toeda, Shigetoshi, to Kyocera Corporation. Sub-combustion chamber of an internal combustion engine. 4,714,062, 12-22-87, Cl. 123-273.000.

Toeg, Sasson: *See*—
Cook, Robert C.; and Toeg, Sasson, 4,682,801, Cl. 292-251.500.

Toegel, Herbert J.; Yudichak, Joseph R.; and Gilsdorf, John F., to ITT Corporation. Apparatus for establishing communication paths. 4,639,910, 1-27-87, Cl. 370-58.000.

Toegel, Herbert J.: *See*—
Yudichak, Joseph R.; and Toegel, Herbert J., 4,656,626, Cl. 370-68.000.

Toelke, Lester W., to Hayden, Jack W. Apparatus and method to test a single connection between a pipe coupling and a single pipe end connected therewith. 4,646,559, 3-3-87, Cl. 73-46.000.

Toelke, Lester W., to Hayden, Jack W. Method and apparatus for hydrostatic testing of tubular member. 4,646,561, 3-3-87, Cl. 73-49.500.

Toelle, Alvin D., to Ex-Cell-O Corporation. Fluid control valve. 4,640,308, 2-3-87, Cl. 137-596.180.

Toellner, Robert L.; and Copland, George V., to Halliburton Company. Method and apparatus for positioning a satellite antenna from a remote well logging location. 4,707,699, 11-17-87, Cl. 342-352.000.

Toepell, Hans D. F.: *See*—
Boehlau, Ernst; and Toepell, Hans D. F., 4,650,032, Cl. 181-210.000.

Toepert, Michael: *See*—
Annen, Klaus; Laurent, Henry; Hofmeister, Helmut; Wiechert, Rudolf; Toepert, Michael; and Wendt, Hans, 4,701,451, Cl. 514-180.000.

Toepfer, Dieter: *See*—
Heist, Hans; Toepfer, Dieter; and Britzke, Sylvia, 4,678,310, Cl. 354-319.000.

Tofanelli, Adler: *See*—
Ambrosio, Renato; Brosio, Alberto; Fausone, Alfredo; and Tofanelli, Adler, 4,713,803, Cl. 370-32.100.
Bruno, Carlo M.; Panarotto, Gianfranco; and Tofanelli, Adler, 4,686,703, Cl. 379-410.000.
Gagliardi, Fabrizio; Bruno, Carlo M.; and Tofanelli, Adler, 4,675,885, Cl. 375-110.000.

Tofanetti, Odoardo: *See*—
Cignarella, Giorgio; Gandolfi, Carmelo A.; Tofanetti, Odoardo; Cipolla, Piervitto; and Tognella, Sergio, 4,692,447, Cl. 514-248.000.

Toffolo, Franco, to U.S. Philips Corporation. Noise detector. 4,648,126, 3-3-87, Cl. 455-212.000.

Tofield, Bruce C.: *See*—
Asher, James; Tofield, Bruce C.; Wormald, Malcolm R.; Huxtable, George B.; and Conlon, Thomas W., 4,675,527, Cl. 250-393.000.

Tofield, Joshua J.; Burkhardt, Boyd R.; Martin, Timothy S.; and Economidy, Byron G., to J. Tofield, et al. Method and apparatus for securing a prosthesis to the human body. 4,676,802, 6-30-87, Cl. 623-66.000.

Tofield, Robert H.: *See*—
Alling, Richard L.; Shepard, Richard W.; Landrum, Clyde L.; Tofield, Robert H.; and Podhajecki, Stephen T., 4,677,720, Cl. 29-148.40C.

Tofigh, Farshid: *See*—
Jackson, Kenneth R.; and Tofigh, Farshid, 4,695,917, Cl. 361-58.000.

Toft, Richard C.: *See*—
Stephenson, Graham W.; and Toft, Richard C., 4,694,909, Cl. 166-359.000.

Toga, Yuzo: *See*—
Motoi, Masatoshi; Toga, Yuzo; Okamoto, Ichiro; and Kanno, Tatsuya, 4,672,141, Cl. 568-613.000.

Togano, Kazumasa: *See*—
Tachikawa, Kyoji; Togano, Kazumasa; and Kumakura, Hiroaki, 4,664,933, Cl. 427-12.000.

Toganoh, Shigeo; Arai, Ryuichi; and Sakaki, Mamoru, to Canon Kabushiki Kaisha. Record-bearing member and ink-jet recording method by use thereof. 4,636,805, 1-13-87, Cl. 346-1.100.

Toganoh, Shigeo; and Arai, Ryuichi, to Canon Kabushiki Kaisha. Recording method. 4,642,654, 2-10-87, Cl. 346-1.100.

Toganoh, Shigeo; Matsufuji, Yohji; and Ichihashi, Hiroo, to Canon Kabushiki Kaisha. Ink-supplying device. 4,658,272, 4-14-87, Cl. 346-140.00R.

Toganoh, Shigeo; Matsufuji, Yohji; and Ichihashi, Hiroo, to Canon Kabushiki Kaisha. Recording device with multiple recording units and a common ink source. 4,694,307, 9-15-87, Cl. 346-140.00R.

Toganoh, Shigeo: *See*—
Akiya, Takashi; Toganoh, Shigeo; and Arai, Ryuichi. 4,636,410, Cl. 427-261.000.
Arai, Ryuichi; and Toganoh, Shigeo. 4,636,409, Cl. 427-256.000.
Mouri, Hidemasa; Tobita, Michiaki; Eto, Naonobu; Kouno, Shunzo; Ohkura, Kosuke; Toganoh, Shigeo; Arai, Ryuichi; Sakaki, Mamoru; Iwata, Kazuo; and Shibasaki, Hiromi. 4,642,247, Cl. 427-214.000.

Togashi, Hiroshi: *See*—
Fujiki, Kuniharu; and Togashi, Hiroshi. 4,634,627, Cl. 428-323.000.
Yashiro, Tsutomu; Kurihara, Mutsumu; and Togashi, Hiroshi. 4,699,840, Cl. 428-328.000.

Togashi, Minoru; Kato, Kenshiro; and Furuya, Shin-ichi, to Bridgestone Tire Co., Ltd. Reduced rolling resistance pneumatic radial tire. 4,669,519, 6-2-87, Cl. 152-454.000.

Togashi, Mitsuo: *See*—
Kato, Makoto; and Togashi, Mitsuo. 4,676,596, Cl. 350-167.000.

Togashi, Seigo, to Citizen Watch Co., Ltd. Drive method for active matrix display device. 4,635,127, 1-6-87, Cl. 358-236.000.

Togashi, Seigo, to Citizen Watch Co., Ltd. Non-light-emitting liquid crystal color display device. 4,642,619, 2-10-87, Cl. 340-701.000.

Togashi, Seigo; and Sekiguchi, Kanetaka, to Citizen Watch Co., Ltd. Matrix display device. 4,642,620, 2-10-87, Cl. 340-713.000.

Togashi, Seigo; Yamamoto, Etsuo; Aota, Katsumi; Tanabe, Hiroshi; Sekiguchi, Kanetaka; and Sorimachi, Kazuaki, to Citizen Watch Co., Ltd. Flat panel display device having on-screen data input function. 4,655,552, 4-7-87, Cl. 350-342.000.

Togashi, Seigo: *See*—
Tanabe, Hiroshi; Yamamoto, Etsuo; Togashi, Seigo; Sekiguchi, Kanetaka; Aota, Katsumi; and Sorimachi, Kazuaki. 4,673,253, Cl. 350-339.00F.

Togashi, Shigeru; Saitoh, Hiromi; Takahashi, Shigeyuki; Makino, Yasuo; Kakinuma, Mitsuru; Satoh, Shigeo; and Sugiyama, Shigeki, to Sanyo Electric Co., Ltd. Apparatus for preparing frozen products. 4,703,628, 11-3-87, Cl. 62-135.000.

Togashi, Toshio, to Kawasaki Jukogyo Kabushiki Kaisha. Side stand of a motorcycle. 4,638,880, 1-27-87, Cl. 180-219.000.

Togawa, Yoichi: *See*—
Noguchi, Takayo; Togawa, Yoichi; Nishimoto, Tsuneo; Tonohara, Yoshiharu; Rokkaku, Tadashi; Nakai, Seigo; Araki, Michio; and Kitano, Kahei. 4,695,209, Cl. 409-42.000.

Togawa, Zenta, to Mazda Motor Corporation. Apparatus for assembling a vehicle suspension mechanism. 4,703,547, 11-3-87, Cl. 29-227.000.

Togei, Ryoiku, to Fujitsu Limited. Non-volatile semiconductor memory device. 4,672,408, 6-9-87, Cl. 357-23.500.

Togie Corporation: *See*—
Mehmert, Larry B.; and Huegel, Irene. 4,702,828, Cl. 210-131.000.

Togino, Takayosi; Kobayashi, Yuko; and Yonekubo, Ken, to Olympus Optical Co., Ltd. Objective lens for microscope. 4,682,859, 7-28-87, Cl. 350-414.000.

Tognella, Sergio: *See*—
Cignarella, Giorgio; Gandolfi, Carmelo A.; Tofanetti, Odoardo; Cipolla, Piervitto; and Tognella, Sergio. 4,692,447, Cl. 514-248.000.

Tognella, Ugo R.: *See*—
Sofianek, Joseph C.; Tognella, Ugo R.; and Bonnett, Richard J. 4,665,287, Cl. 200-144.00B.

Togneri, Mauro G. Graphic display. 4,639,724, 1-27-87, Cl. 340-815.010.

Tognet, Jean-Paul: *See*—
Fava, Jean; Lambert, Andre; and Tognet, Jean-Paul. 4,636,369, Cl. 423-20.000.

Tognoli, Pietro; Cremaschi, Gianfranco; Migliacci, Antonio; and Bono, Giancarlo, to I.P.A. S.P.A. Industria Prefabbricati Affini. Components for ballast-less railroad lines laid on pre-fabricated reinforced concrete slabs. 4,703,890, 11-3-87, Cl. 238-7.000.

Togo, Yoshiro: *See*—
Kitamura, Yoichi; Togo, Yoshiro; and Akae, Yoshiteru. 4,652,715, Cl. 219-64.000.

Tohara, Tsutomu: *See*—
Yamauchi, Fumio; Tohara, Tsutomu; Nakano, Shigeo; and Emoto, Shigeo. 4,690,960, Cl. 523-442.000.

Tohata, Susumu; and Numata, Kunio, to Kabushiki Kaisha Gakushu Kenkyusha. Reflection type overhead projector. 4,636,050, 1-13-87, Cl. 353-66.000.

Tohda, Kazuo: *See*—
Iwasa, Koji; Kamamori, Hitoshi; Suginoya, Mitsuru; Sano, Yutaka; Terada, Yumiko; Kato, Naoki; Suzuki, Tameyuki; Yasukawa, Jun-ichi; Nomura, Toyokazu; Tohda, Kazuo; and Itoh, Shinji. 4,670,188, Cl. 252-513.000.

Tohda, Takao; Matsuoka, Tomizo; Fujita, Yosuke; Abe, Atsushi; and Nitta, Tsuneharu, to Matsushita Electric Industrial Co., Ltd. Electroluminescent display device. 4,634,934, 1-6-87, Cl. 315-169.300.

Tohjoh, Yoshikazu: *See*—
Miyazaki, Atsushi; and Tohjoh, Yoshikazu. 4,643,170, Cl. 128-6.000.

Tohkai Kogyo Co., Ltd.: *See*—
Hatayama, Satoyuki. 4,635,947, Cl. 277-235.00A.

Tohkairin, Akira: *See*—
Kanamaru, Hisanobu; Sasaya, Kazushi; Onuma, Tomiyasu; and Tohkairin, Akira. 4,644,850, Cl. 91-507.000.

Tohken Co., Ltd.: *See*—
Kayabara, Isao. 4,662,044, Cl. 29-81.00H.

Tohmori, Shiro: *See*—
Hagio, Masahiro; Nanbu, Shutaro; Kanazawa, Kunihiko; Ogata, Shunji; and Tohmori, Shiro. 4,665,416, Cl. 357-22.000.

Tohno, Masao: *See*—
Uchida, Katsuhiro; Masumoto, Shozo; Tohno, Masao; Mimura, Mitsuo; Okumura, Makoto; Ichikawa, Kiyonoshin; and Matsumura, Misako. 4,699,925, Cl. 514-559.000.

Toho Beslon Co., Ltd.: *See*—
Honda, Kenji, deceased; and Sawafuji, Tadaaki. 4,677,818, Cl. 57-224.000.
Ogawa, Hiroyasu; Shigei, Tetsuro; Sugeno, Hiroshi; and Ichimaru, Kazuhiro. 4,671,950, Cl. 423-447.100.
Shimazaki, Kenji. 4,696,742, Cl. 210-287.000.
Yoshinari, Osamu; Kawakatsu, Yoshifumi; Takahashi, Hayashi; and Fukuizumi, Hideaki. 4,659,623, Cl. 428-395.000.

Toho Development Engineering Co., Ltd.: *See*—
Kobari, Osamu; and Kida, Takashi. 4,681,535, Cl. 432-48.000.

Toho Gas Co., Ltd.: *See*—
Sago, Yoshiharu; Kurosawa, Masaji; and Kanamori, Nobutaka. 4,650,621, Cl. 264-62.000.

Toho, Makoto: *See*—
Imamura, Hiroshi; Nakai, Katsumasa; Higashigawa, Masahiro; and Toho, Makoto. 4,665,341, Cl. 313-493.000.

Toho Polymer Kabushiki Kaisha: *See*—
Takakuwa, Masao. 4,657,419, Cl. 400-490.000.

Toho Rayon Co., Ltd.: *See*—
Nagata, Yasuhisa. 4,714,648, Cl. 428-245.000.

Toho Titanium Co., Ltd.: *See*—
Terano, Minoru; Yokoyama, Yasushi; Inoue, Masuo; and Miyoshi, Katsuyoshi. 4,640,906, Cl. 502-104.000.
Terano, Minoru; Soga, Hirokazu; Inoue, Masuo; and Miyoshi, Katsuyoshi. 4,686,200, Cl. 502-112.000.

Toho Yogyo Kabushiki Kaisha: *See*—
Kawasaki, Katsuhiro. 4,707,950, Cl. 51-401.000.

Tohoku Chemical Industries, Ltd.: *See*—
Orita, Keiichi; and Yamashita, Akira. 4,654,051, Cl. 51-298.000.

Tohoku Electric Power Co., Inc.: *See*—
Tabata, Yusuke; Hayasaka, Eiji; Hashimoto, Toshitomo; Horima, Hiroaki; Omori, Toshiyuki; and Kurosawa, Akira. 4,662,712, Cl. 350-96.230.

Tohoku Metal Industries Ltd.: *See*—
Honma, Toshio; Nishida, Minoru; and Yamauchi, Kiyoshi. 4,707,196, Cl. 148-12.70N.

Tohoku University: *See*—
Hayashi, Kazuo; Shoji, Tetsuo; Niitsuma, Hiroaki; Takahashi, Hideaki; and Abe, Hiroyuki. 4,665,984, Cl. 166-250.000.
Kawakami, Michio; Araki, Yoshima; Murakami, Kenkichi; Oikawa, Hidetoshi; Nakanishi, Michio; and Hosotani, Makoto. 4,659,786, Cl. 525-415.000.

Tohya, Hirokazu; and Kido, Tooru, to NEC Corporation. Power supply source control system. 4,698,517, 10-6-87, Cl. 307-43.000.

Tohya, Syoichi; and Takahashi, Minoru, to Sanyo Electric Co., Ltd. Charging apparatus. 4,636,703, 1-13-87, Cl. 320-2.000.

Tohyama, Akira: *See*—
Hosono, Takashi; and Tohyama, Akira. 4,636,843, Cl. 358-67.000.

Toi, Koji: *See*—
Fukushima, Koji; Seto, Yoshiko; Kawada, Kazuhiro; Toi, Koji; and Kumashiro, Izumi. 4,714,713, Cl. 514-563.000.

Toibana, Yasuo: *See*—
Ebata, Yoshihiro; Hayami, Ryozo; Tamari, Nobuyuki; Toibana, Yasuo; and Kinoshita, Makoto. 4,707,416, Cl. 428-627.000.

Toida, Akikazu; Iwata, Satoshi; Takahashi, Fumio; and Mimura, Takanobu, to Shinko Electric Co., Ltd. Method of performing thermal multicolor printing. 4,707,703, 11-17-87, Cl. 346-1.100.

Toida, Kiyoshi: *See*—
Masuda, Senichi; Yonezawa, Ryohei; and Toida, Kiyoshi. 4,652,281, Cl. 55-130.000.

Toida, Shouji: *See*—
Miyaji, Kenichi; Toida, Shouji; and Arai, Yoshinori. 4,653,469, Cl. 126-390.000.
Miyaji, Kenichi; Toida, Shouji; Ito, Senichi; Iwasaki, Kazunori; and Kishida, Masatoshi. 4,675,508, Cl. 219-437.000.
Miyaji, Kenichi; Toida, Shouji; and Arai, Yoshinori. 4,684,057, Cl. 228-187.000.

Toida, Shuzo: *See*—
Sugihara, Junpei; Imai, Takeshi; Toida, Shuzo; and Takahashi, Ikuzo. 4,697,027, Cl. 556-466.000.

Toida, Tomohiro: *See*—
Hashimoto, Yoshiyuki; Toida, Tomohiro; Sekine, Kazunori; Saito, Minoru; Kawashima, Takuji; and Kuboyama, Morio. 4,645,667, Cl. 424-92.000.

Toikka, Osmo: *See*—
Merilainen, Pekka; and Toikka, Osmo. 4,633,705, Cl. 73-27.00A.

Toisawa, Osamu: *See*—
Hirakouchi, Yoshie; Toisawa, Osamu; and Takahashi, Masatoshi. 4,715,991, Cl. 252-555.000.

Toivio, Ilkka; and Toivio, Terttu. Electric resistor element. 4,675,503, 6-23-87, Cl. 219-205.000.

Toivio, Terttu: *See*—
Toivio, Ilkka; and Toivio, Terttu. 4,675,503, Cl. 219-205.000.

Toivola, Alpo: *See*—
Bergius, Rauno; Rautjarvi, Risto; Kemppi, Matti; and Toivola, Alpo, 4,669,566, Cl. 180-139.000.

Toivola, Reijo J.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Soderwall, Marja-Liisa; Kangas, Lauri V. M.; Blanco, Guillermo L.; and Sunduiqst, Hannu K. J. to Farmos Group Ltd. Novel tri-phenyl alkane and alkene derivatives and their preparation and use. 4,696,949, 9-29-87, Cl. 514-648.000.

Toja, Emilio, to Gruppo Lepetit, S.p.A. Pyridazino[4,3-c]-isoquinolines having anti-anxiety activity. 4,716,159, 12-29-87, Cl. 514-210.000.

Tojima, Hideto: *See*—
Sato, Hiroshi; Ikimi, Kiyoshi; Tojima, Hideto; and Takahashi, Mikoto, 4,709,112, Cl. 585-513.000.

Tojima, Hiromi; and Kajitani, Juji, to Kabushiki Kaisha Daikin Seisakusho. Damper disc having annular protrusions and recesses. 4,674,991, 6-23-87, Cl. 464-24.000.

Tojima, Yoshio: *See*—
Inukai, Chyuji; Chino, Eizi; Tojima, Yoshio; Komagata, Hideki; and Nakamura, Masanori, 4,666,784, Cl. 428-425.900.

Tojo, Akihiko: *See*—
Kato, Toshio; Kinoshita, Takao; and Tojo, Akihiko, 4,635,122, Cl. 358-213.000.
Kinoshita, Takao; Sakai, Shinji; Suga, Akira; and Tojo, Akihiko, 4,647,978, Cl. 358-213.000.
Kinoshita, Takao; Sakai, Shinji; Suga, Akira; and Tojo, Akihiko, 4,663,669, Cl. 358-213.190.
Takayama, Tsutomu; Hashimoto, Seiji; Kaji, Toshio; Suzuki, Masao; and Tojo, Akihiko, 4,682,232, Cl. 358-172.000.

Tojo, Hideaki: *See*—
Morioka, Koji; Tojo, Hideaki; Kimura, Kazuo; and Yoshida, Susumu, 4,664,061, Cl. 118-663.000.

Tojo, Kakuji: *See*—
Chien, Yie W.; and Tojo, Kakuji, 4,690,683, Cl. 604-896.000.

Tojo, Masahiro; and Fukuoka, Yohei, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for producing cyclic alcoho.. 4,661,639, 4-28-87, Cl. 568-835.000.

Tojo, Toru; and Tabata, Mitsuo, to Kabushiki Kaishi Toshiba. Position detector by vibrating a light beam for averaging the reflected light. 4,698,513, 10-6-87, Cl. 250-561.000.

Tojo, Yu: *See*—
Arito, Tatsunari; and Tojo, Yu, 4,712,905, Cl. 355-3.0CH.
Watanabe, Izumi; and Tojo, Yu, 4,693,589, Cl. 355-5.000.

Tojyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takeshi; Fujikawa, Takao; and Kofune, Shigeo, to Kabushiki Kaisha Kobe Seiko Sho. Method and apparatus for measuring temperature in the high pressure furnace of a hot isostatic pressing. 4,666,314, 5-19-87, Cl. 374-131.000.

Tok Bearing Company, Inc.: *See*—
Miura, Osamu, 4,660,698, Cl. 192-45.000.

Tokai Carbon Co., Ltd.: *See*—
Kida, Tohru; and Yamamoto, Motohiro, 4,690,811, Cl. 423-345.000.

Tokai Corporation: *See*—
Nitta, Tomio, 4,690,377, Cl. 251-354.000.

Tokai Electric Wire Company, Limited: *See*—
Inoue, Nori; Moriai, Yasuharu; Sakatani, Atushi; and Yoshida, Noriyuki, 4,688,149, Cl. 361-399.000.
Isshiki, Isao; and Hayashi, Hitoshi, 4,685,753, Cl. 439-74.000.
Ozawa, Shinichi; and Mizutani, Masayuki, 4,658,212, Cl. 324-158.00F.
Saito, Eiji; and Wakata, Shigekazu, 4,679,874, Cl. 439-595.000.

Tokai Kogyo Co., Ltd.: *See*—
Sakakibara, Takao; Toyoda, Tsunehiko; and Nagashima, Yoshihisa, 4,681,712, Cl. 264-24.000.

Tokai Kogyo Mishin Kabushiki Kaisha: *See*—
Tajima, Ikuo, 4,653,415, Cl. 112-262.200.

Tokai, Masaya: *See*—
Konagaya, Shigeji; Watanabe, Osamu; Kuzumoto, Hideshi; Tokai, Masaya, Narusawa, Haruhiko; and Kato, Yasuo, 4,695,383, Cl. 210-500.370.

Tokai Metals Co., Ltd.: *See*—
Miwa, Kazuharu, 4,664,182, Cl. 165-133.000.
Yamamoto, Hiroaki, 4,666,762, Cl. 428-216.000.

Tokai Rubber Industries, Ltd.: *See*—
Izumi, Toshio; and Kawakatsu, Fukuyoshi, 4,667,943, Cl. 267-141.300.
Kanda, Ryouji, 4,693,456, Cl. 267-140.100.
Matsui, Tetsu, 4,648,576, Cl. 248-550.000.
Sawada, Koji; and Suzuki, Makoto, 4,667,764, Cl. 180-297.000.

Tokai Shoji Co., Ltd.: *See*—
Shirataki, Kenji, 4,668,329, Cl. 156-540.000.

Tokai Sogo Sekkei Kabushiki Kaisha: *See*—
Katsuno, Hiroshi, 4,700,932, Cl. 267-136.000.

Tokai Television Broadcasting Company Limited: *See*—
Kojima, Nobutoshi, 4,706,135, Cl. 360-14.100.

Tokai TRW & Co., Ltd.: *See*—
Maeda, Naoyuki, 4,644,241, Cl. 318-768.000.
Nagae, Kiyoshi, 4,694,927, Cl. 180-132.000.
Okuyama, Takahiro; Toki, Susumu; and Tanabe, Keiji, 4,658,770, Cl. 123-90.410.
Takeuchi, Kunio, 4,709,593, Cl. 74-498.000.

Tokairin, Hiroaki; Honma, Kazuo; Nakajima, Kichio; Nagasawa, Kiyoshi; and Aritake, Takeshi, to Hitachi Construction Machinery Co., Ltd. Device for compensating for deflection in a pliable positioning apparatus. 4,710,884, 12-1-87, Cl. 364-513.000.

Tokar, Joseph C.; and Krisko, William J., to Donaldson Company, Inc. Multi-layered filter apparatus. 4,647,373, 3-3-87, Cl. 210-232.000.

Tokarski, Czeslaw J.: *See*—
Jablonski, Marek; Kwapisz, Bogdan; Proniewicz, Andrzej; Stepniewska-Jarzebska, Joanna; and Tokarski, Czeslaw J., 4,662,982, Cl. 156-617.0SP.

Tokarsky, Edward W., to Du Pont de Nemours, E. I., and Company. High density para-aramid papers. 4,698,267, 10-6-87, Cl. 428-474.400.

Tokarz, Joseph S.; and Jensen, Marvin E., to Hollister Incorporated. Female urinary incontinence device. 4,681,572, 7-21-87, Cl. 604-329.000.

Tokay, Joseph: *See*—
Amundson, Anita L.; and Tokay, Joseph, 4,685,701, Cl. 281-42.000.

Tokheim Corporation: *See*—
Dyben, Jerry F.; and Wulc, Stanley S., 4,637,254, Cl. 73-314.000.

Toki Hanbai Co., Ltd.: *See*—
Ohgushi, Kikuo; Yoshikawa, You; Ohnishi, Isao; and Matsuura, Haruo, 4,669,275, Cl. 62-342.000.

Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, to Mitsubishi Rayon Co., Ltd. Method for producing flat yarn. 4,633,662, 1-6-87, Cl. 57-286.000.

Toki, Masahisa; Satoh, Seiji; Matsui, Yoshiaki; Morihata, Kunio; and Murata, Toyoji, to Mitsubishi Rayon Company Ltd. Flat yarn and method for producing the same. 4,689,944, 9-1-87, Cl. 57-260.000.

Toki, Motoyuki; Kanbe, Sadao; Miyashita, Satoru; and Takeuchi, Tetsuhiko, to Seiko Epson Kabushiki Kaisha. Silica glass formation process. 4,681,615, 7-21-87, Cl. 65-18.100.

Toki, Susumu: *See*—
Okuyama, Takahiro; Toki, Susumu; and Tanabe, Keiji, 4,658,770, Cl. 123-90.410.

Toki, Tadaaki: *See*—
Haga, Takahiro; Toki, Tadaaki; Koyanagi, Toru; Okada, Hiroshi; Yoshida, Kiyomitsu; and Imai, Osamu, 4,645,761, Cl. 514-94.000.

Tokico Ltd.: *See*—
Amemori, Hiroyuki; Nishiyama, Shigeru; and Iwamoto, Tetsuo, 4,694,702, Cl. 73-861.240.
Ando, Hiromi; Endo, Mitsuhiro; and Ono, Yukou, 4,690,034, Cl. 91-369.00A.
Ashiba, Masahiro; and Shirakuma, Takashi, 4,689,589, Cl. 335-272.000.
Endo, Mitsuhiro; Ando, Hiromi; and Ono, Yukou, 4,671,167, Cl. 91-369.00A.
Imaizumi, Tomio, 4,645,043, Cl. 188-319.000.
Inoue, Masaru; and Ashiba, Masahiro, 4,645,042, Cl. 188-319.000.
Inoue, Masaru; Ida, Masao; and Kohara, Takao, 4,665,764, Cl. 74-436.000.
Inoue, Masaru; Ida, Masao; and Kohara, Takao, 4,686,863, Cl. 74-425.000.
Kato, Tetsuo; and Imaizumi, Tomio, 4,645,044, Cl. 188-319.000.
Kitamura, Makoto; and Yamaguchi, Kiyoshi, 4,697,796, Cl. 267-35.000.
Kobayashi, Mamoru, 4,672,283, Cl. 318-696.000.
Komukai, Shigemi, 4,662,539, Cl. 222-14.000.
Miura, Yukio; and Miyamoto, Yoshikazu, 4,637,525, Cl. 222-22.000.
Morita, Yutaka; Katayama, Masayoshi; and Kato, Takashi, 4,648,281, Cl. 73-861.910.
Nitta, Michio; Suzuki, Hiroyuki; and Fukuhara, Yoshifumi, 4,662,826, Cl. 417-206.000.
Sakurai, Hiroshi, 4,646,182, Cl. 360-104.000.
Sakurai, Hiroshi, 4,701,823, Cl. 360-106.000.
Sato, Kazuo, 4,685,941, Cl. 55-163.000.
Sawano, Susumu; and Sakuma, Masaru, 4,671,579, Cl. 303-95.000.
Shirakuma, Takashi, 4,635,960, Cl. 280-707.000.
Shirakuma, Takashi, 4,666,180, Cl. 280-707.000.
Tanabe, Hisao; Takahashi, Masaru; Ozawa, Hiroyasu; Machida, Shoichi; and Kitamura, Makoto, 4,683,993, Cl. 188-321.110.
Yamashita, Kazuhisa; Shibata, Yoshio; and Komukai, Shigemi, 4,660,153, Cl. 364-513.500.

Tokieda, Akinori: *See*—
Kikuchi, Yasushi; Kayama, Kazuyoshi; Tokieda, Akinori; Watanabe, Hiroyuki; and Akita, Shuichi, 4,677,165, Cl. 525-332.900.

Tokiguchi, Katsumi; Koike, Hidemi; Sakudo, Noriyuki; Okada, Osami; Ninomiya, Ken; and Ozasa, Susumu, to Hitachi, Ltd. Ion source. 4,658,143, 4-14-87, Cl. 250-423.00R.

Tokiko, Ltd.: *See*—
Nishimura, Makoto, 4,691,153, Cl. 318-696.000.

Tokimoto, Toyotarou: *See*—
Takashima, Susumu; Tokimoto, Toyotarou; and Kurosawa, Kazuyuki, 4,633,748, Cl. 84-1.010.

Tokioka, Nobuyuki: *See*—
Sakata, Yoshitsugu; Shintani, Akinori; Matsuo, Tetsuya; Sugiyama, Haruhiko; and Tokioka, Nobuyuki, 4,634,671, Cl. 435-188.900.

Tokita, Jirou: *See*—
Kambara, Hideki; Tokita, Jirou; Simada, Tamotu; and Watanabe, Ken'ichi, 4,675,095, Cl. 204-299.00R.

Tokita, Kiyoshi; and Nakamura, Michio, to Tokyo Shibaura Denki Kabushiki Kaisha. Color cathode-ray tube having shadow mask with variable sized apertures. 4,636,683, 1-13-87, Cl. 313-403.000.

Tokita, Kiyoshi; Nakamura, Michio; and Urata, Hiroshi, to Kabushiki Kaisha Toshiba. Color cathode ray tube with resilient shadow mask support. 4,652,792, 3-24-87, Cl. 313-404.000.

Tokita, Kiyoshi, to Kabushiki Kaisha Toshiba. Manufacturing method of color picture tube. 4,671,776, 6-9-87, Cl. 445-51.000.

Tokita, Mamoru; and Nakano, Takeji, to Kabushikigaisha Iwasa Tekkosho. Automatic chamfering machine. 4,662,804, 5-5-87, Cl. 409-8.000.

Tokita, Masakazu, to Toshiba Kikai Kabushiki Kaisha. Electron beam drawing control system. 4,641,252, 2-3-87, Cl. 364-518.000.

Tokita, Minoru: *See*—
Onuma, Eiichi; Kawamura, Youji; Obana, Hiroshi; Aizawa, Takemi; Tamai, Motomi; Inagaki, Tsuguya; and Tokita, Minoru, 4,691,869, Cl. 241-34.000.

Tokita, Shigeo: *See*—
Ohtsuka, Masasuke; Harada, Yoshinori; Tokita, Shigeo; and Maniwa, Hideyo, 4,705,836, Cl. 526-318.100.

Tokita, Shinichi: *See*—
Nishimura, Toshio; and Tokita, Shinichi, 4,656,660, Cl. 379-393.000.

Tokita, Susumu: *See*—
Inoue, Hiromichi; Fukui, Masahiro; Goto, Yasuyuki; and Tokita, Susumu, 4,704,228, Cl. 252-299.630.

Tokita, Takehiko: *See*—
Toba, Shigeru; Yoshida, Hirono; and Tokita, Takehiko, 4,676,976, Cl. 424-485.000.

Tokita, Yasuhiro: *See*—
Fuke, Akira; Tokita, Yasuhiro; and Masuda, Katsuhiko, 4,701,925, Cl. 372-38.000.
Fuke, Akira; Tokita, Yasuhiro; and Masuda, Katsuhiko, 4,710,938, Cl. 372-56.000.

Tokitoh, Yasuo; and Yoshimura, Noriaki, to Kuraray Company, Ltd. Hydroformylation of 3-methyl 3-buten-1-ol and analogs thereof and use of such hydroformylation products. 4,663,468, 5-5-87, Cl. 549-273.000.

Tokiwa, Hideharu: *See*—
Mimura, Yoshinori; Tokiwa, Hideharu; Shinbori, Osamu; and Nakai, Tetsuya, 4,674,835, Cl. 350-96.340.

Tokiwa Kogyo Co., Ltd.: *See*—
Kameda, Hiroshi, 4,715,166, Cl. 53-550.000.
Noh, Chuji, 4,696,147, Cl. 53-550.000.

Tokiwa, Toru: *See*—
Sadahiro, Toru; Taguchi, Masayuki; Tokiwa, Toru; and Terajima, Takeshi, 4,674,374, Cl. 83-62.100.

Tokiya, Yoshihiro: *See*—
Fujii, Atsushi; Kaneda, Kazuhisa; and Tokiya, Yoshihiro, 4,680,157, Cl. 264-180.000.

Tokizaki, Hisashi: *See*—
Itani, Kiyoshi; Tokizaki, Hisashi; Funagoshi, Tomohide; Ohtsuka, Nobuo; Ohkubo, Katsuhiro; and Katsuki, Hikaru, 4,698,744, Cl. 364-140.000.

Tokizane, Masaru: *See*—
Kojima, Teiryo; Matsuda, Heiichiro; and Tokizane, Masaru, 4,682,465, Cl. 57-247.000.

Toko, Inc.: *See*—
Hayakawa, Yasumitsu, 4,656,442, Cl. 333-140.000.
Kohayakawa, Masami, 4,641,112, Cl. 333-140.000.
Kondo, Hiroshi, 4,691,120, Cl. 307-265.000.
Mikami, Toshio; and Nagasawa, Yasuo, 4,680,528, Cl. 320-32.000.
Murata, Kiyobumi, 4,639,696, Cl. 333-138.000.
Nakadai, Shigeru; and Tamada, Teruo, 4,642,596, Cl. 336-98.000.

Toko Yakuhin Industry Co., Ltd.: *See*—
Kamishita, Takuzo, 4,670,254, Cl. 424-81.000.

Toko Yakuhin Kogyo Co., Ltd.: *See*—
Umio, Suminori; Kamimura, Toshiaki; Kamishita, Takuzo; and Mine, Yasuhiro, 4,636,520, Cl. 514-399.000.

Tokoli, Emery G.; and Horgan, Anthony M., to Xerox Corporation. Photoresponsive devices containing aromatic ether hole transport layers. 4,665,000, 5-12-87, Cl. 430-85.000.

Tokoro, Setsuo; Shigematsu, Takashi; and Watanabe, Tomoyuki, to Toyota Jidosha Kabushiki Kaisha. Hydraulic control apparatus for a continuously variable transmission. 4,673,378, 6-16-87, Cl. 474-18.000.

Tokoro, Setsuo: *See*—
Obayashi, Hideki; Kawai, Hisasi; Ina, Toshikazu; Shigematsu, Takashi; Tokoro, Setsuo; and Kohama, Tokio, 4,691,286, Cl. 364-431.040.
Shigematsu, Takashi; Watanabe, Tomoyuki; Tokoro, Setsuo; and Sawada, Daisaku, 4,715,258, Cl. 74-866.000.
Watanabe, Tomoyuki; Shigematsu, Takashi; Tokoro, Setsuo; and Hayashi, Takashi, 4,715,482, Cl. 192-0.032.

Toku, Hisayuki: *See*—
Yoshikawa, Kiyoshi; Toku, Hisayuki; Ueda, Makoto; and Tamagaki, Hiroshi, 4,703,222, Cl. 313-362.100.

Tokuda, Hiroatsu: *See*—
Sekozawa, Teruji; Funabashi, Motohisa; Shioya, Makoto; Onari, Michihiko; and Tokuda, Hiroatsu, 4,667,6~0, Cl. 123-492.000.
Shioya, Makoto; Sekozawa, Teruji; Funabashi, Motohisa; Ishida, Masahiro; and Tokuda, Hiroatsu, 4,674,028, Cl. 364-148.000.

Tokuda, Kanji: *See*—
Kogane, Mikio; Suzuki, Kenji; Kito, Eiichi; Kubota, Kazufumi; and Tokuda, Kanji, 4,639,118, Cl. 355-29.000.

Tokuda, Katsuhiko: *See*—
Terajima, Yushi; Tokuda, Katsuhiko; Nakamura, Shoji; Uehara, Keiichi; Ichikawa, Hideyuki; and Iwakami, Shinobu, 4,663,080, Cl. 252-522.00R.

Tokuda, Kimishiro: *See*—
Takahashi, Yasuro; Fujima, Yukihisa; and Tokuda, Kimishiro, 4,669,398, Cl. 110-347.000.

Tokuda, Masahide: *See*—
Yamada, Minoru; Usui, Mitsuru; Masaki, Akira; Nakanishi, Keiichirou; and Tokuda, Masahide, 4,686,606, Cl. 361-385.000.

Tokuda, Ryuji; Harunari, Yoshihiro; and Kobe, Takashi, to Canon Kabushiki Kaisha. Input circuit for distance measuring apparatus. 4,701,048, 10-20-87, Cl. 356-1.000.

Tokuda, Shuichiro: *See*—
Takemae, Shigeru; Takada, Yasuo; Tokuda, Shuichiro; Furukawa, Noriyuki; and Kodama, Hitoshi, 4,663,927, Cl. 57-6.000.

Tokuda, Wahei; and Takagi, Atushi, to Canon Kabushiki Kaisha. Image recording apparatus. 4,682,882, 7-28-87, Cl. 355-14.00D.

Tokuden Co., Ltd.: *See*—
Kitano, Senjin; and Tsutsumi, Hiroki, 4,647,744, Cl. 219-10.49A.

Tokudome, Katsumi: *See*—
Kamide, Noboru; Hijikata, Hiroshi; Tokudome, Katsumi; Ishikawa, Michio; and Hayashi, Yuji, 4,635,272, Cl. 372-87.000.

Tokudome, Yoshihiro: *See*—
Fukuma, Nobuo; Hasegawa, Hisayasu; Murayama, Kimimasa; Hayashi, Kunio; and Tokudome, Yoshihiro, 4,689,864, Cl. 29-157.10R.

Tokugawa, Osamu, to NSK-Warner K.K. Seat belt anchor mechanism. 4,676,555, 6-30-87, Cl. 297-473.000.

Tokugawa, Osamu: *See*—
Yamanoi, Toshimi; and Tokugawa, Osamu, 4,676,556, Cl. 297-473.000.

Tokuhara, Masaharu: *See*—
Kita, Hiroyuki; Tokuhara, Masaharu; and Kawashima, Hiroyuki, 4,668,974, Cl. 358-11.000.
Sarugaku, Toshio; Motoe, Hisafumi; Tokuhara, Masaharu; and Hongu, Masayuki, 4,673,983, Cl. 358-183.000.

Tokuhara, Mitsuhiro: *See*—
Honda, Haruhisa; Tsuchiya, Hiroaki; Setani, Michitaka; and Tokuhara, Mitsuhiro, 4,641,944, Cl. 355-1.000.
Saito, Takashi; Nitanda, Hiroshi; Inuzuka, Tsuneki; Tokuhara, Mitsuhiro; and Honda, Haruhisa, 4,702,586, Cl. 355-3.00R.
Sueda, Tetsuo; Tokuhara, Mitsuhiro; and Baba, Takeshi, 4,679,931, Cl. 355-56.000.
Usami, Akihiro; and Tokuhara, Mitsuhiro, 4,634,233, Cl. 350-413.000.

Tokui, Akira: *See*—
Nakajima, Masayuki; Saito, Shinichi; Tokui, Akira; Kawai, Akira; Nagatomo, Masao; and Ozaki, Hiroji, 4,702,796, Cl. 156-653.000.

Tokui, Satoru; Sueyoshi, Susumu; and Nanba, Keiichiro, to Pioneer Electronic Corporation. Interface device for converting a computer printer port into an input/output port. 4,635,222, 1-6-87, Cl. 364-900.000.

Tokui, Satoru, to Pioneer Electronic Corporation. Video format signal generator with improved synchronization system. 4,670,774, 6-2-87, Cl. 358-19.000.

Tokui, Satoru: *See*—
Nanba, Keiichiro; Tokui, Satoru; and Onuma, Tatsuro, 4,680,634, Cl. 358-181.000.
Sueyoshi, Susumu; Tokui, Satoru; and Nanba, Keiichiro, 4,703,450, Cl. 364-900.000.

Tokuketsu, Seiji. Hoop material cutter. 4,664,007, 5-12-87, Cl. 83-375.000.

Tokumaru, Hisashi, to Minolta Camera Kabushiki Kaisha. Zoom lens system. 4,636,040, 1-13-87, Cl. 350-427.000.

Tokumaru, Isao: *See*—
Hirakawa, Tadashi; Waseda, Masashi; Kusubayashi, Toshiaki; and Tokumaru, Isao, 4,667,953, Cl. 271-280.000.

Tokumaru, Sennosuke; Kubo, Michinori; and Nogami, Mari, to Tokumaru, Sennosuke. Lyophilized kefir yoghurt health food. 4,702,923, 10-27-87, Cl. 426-61.000.

Tokumasu, Noboru: *See*—
Maeda, Kazuo; Tokumasu, Noboru; and Fukuyama, Toshihiko, 4,702,936, Cl. 427-54.100.

Tokumitsu, Jun; and Sakata, Hajime, to Canon Kabushiki Kaisha. Method and apparatus for image conversion with multiple exposures for filtering. 4,707,743, 11-17-87, Cl. 358-213.130.

Tokumitsu, Junsuke: *See*—
Sasamura, Kohei; and Tokumitsu, Junsuke, 4,635,134, Cl. 358-312.000.

Tokumitsu, Kazuto: *See*—
Chiba, Kiyoshi, Ino, Hiromitsu; and Tokumitsu, Kazuto, 4,707,198, Cl. 148-304.000.

Tokumo, Akio; Takagi, Kazunori; and Mori, Shuichi, to Pioneer Electronic Corporation. Headrest-mounted acoustic device. 4,696,370, 9-29-87, Cl. 181-141.000.

Tokumo, Akio: *See*—
Kunugi, Yoshiro; Odaka, Makoto; Sato, Takeshi; Sasaki, Yoshio; and Tokumo, Akio, 4,644,292, Cl. 330-279.000.
Kunugi, Yoshiro; Tokumo, Akio; Yoshimi, Toshikazu; Kato, Shuji ro; Sasaki, Yoshio; Odaka, Makoto; and Sato, Takeshi, 4,648,117, Cl. 381-86.000.
Suzuki, Shinichi; Tokumo, Akio; Kunugi, Yoshiro; and Kato, Masayuki, 4,694,498, Cl. 381-103.000.

Tokumo, Teruhiko: *See*—
Kimura, Toshio; Nakagawa, Shuichi; Tokumo, Teruhiko; Yamamoto, Hiroyuki; Kotan, Hiroshi; Otsu, Hiroshi; and Satoh, Tetsuya, 4,649,399, Cl. 346-32.000.
Kimura, Toshio; Tokumo, Teruhiko; and Matsumura, Ken, 4,654,672, Cl. 346-46.000.

Tokumoto, Minoru; Takagi, Motoyuki; Shutaoka, Shizuo; Gold, Samuel; and Iovine, Carmine P., to National Starch and Chemical Corporation. Alkaline curing emulsions for use in cement admixtures. 4,710,526, 12-1-87, Cl. 524-5.000.

Tokunaga, Fumihiro; Asai, Takamitsu; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,656,088, 4-7-87, Cl. 428-323.000.

Tokunaga, Fumihiro; Asai, Takamitsu; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,678,706, 7-7-87, Cl. 428-323.000.

Tokunaga, Hiroshi; Soma, Shinobu; Aoki, Naoki; and Kusuda, Tatsufumi, to Konishiroku Photo Industry Co., Ltd. Image transfer device. 4,674,860, 6-23-87, Cl. 355-3.0TR.

Tokunaga, Hiroshi: *See*—
Kinoshita, Tomoaki; Takano, Kunio; Nukushina, Masanori; Wada, Minoru; and Tokunaga, Hiroshi, 4,692,871, Cl. 364-470.000.

Tokunaga, Ichiro; and Shimojima, Yoji, to Alps Electric Co., Ltd. Reflection type optical rotary encoder. 4,650,995, 3-17-87, Cl. 250-231.0SE.

Tokunaga, Ichiro, to Alps Electric Co., Ltd. Rotary encoder wherein phase difference is adjusted by the radial position of the sensor head. 4,659,924, 4-21-87, Cl. 250-231.0SE.

Tokunaga, Ichiro: *See*—
Matsunaga, Hiroshi; Shimojima, Yoji; and Tokunaga, Ichiro, 4,634,862, Cl. 250-231.0SE.
Matsunaga, Hiroshi; Shimojima, Yoji; Tokunaga, Ichiro; and Obata, Kosei, 4,684,210, Cl. 350-96.200.
Matsunaga, Hiroshi; Tokunaga, Ichiro; Shimojima, Yoji; and Obata, Kosei, 4,705,348, Cl. 350-96.150.

Tokunaga, Katsushi: *See*—
Okamura, Kazuo; Kitamura, Ikuo; Aomi, Hideki; Koyama, Satoshi; and Tokunaga, Katsushi, 4,668,414, Cl. 252-62.510.

Tokunaga, Kazuyoshi: *See*—
Kuwabara, Tadashi; Matsuda, Yasumasa; Kasahara, Masatoshi; Mukumoto, Kyoji; and Tokunaga, Kazuyoshi, 4,672,398, Cl. 346-140.00R.

Tokunaga, Kenji: *See*—
Takeuchi, Koichi; Yamanaka, Megumi; Inada, Hisanobu; Kubo, Masayoshi; Katayama, Hideaki; Tokunaga, Kenji; and Miyamoto, Yoshinori, 4,649,780, Cl. 82-48.000.
Takeuchi, Koichi; Yamanaka, Megumi; Kubo, Masayoshi; Katayama, Hideaki; and Tokunaga, Kenji, 4,710,255, Cl. 156-361.000.

Tokunaga, Kunishige: *See*—
Ishino, Yoshihiro; Sugiura, Sadanobu; and Tokunaga, Kunishige, 4,691,844, Cl. 222-591.000.

Tokunaga, Kuniyuki; and Hashimoto, Tsutomu, to Toyo Soda Manufacturing Co., Ltd. Packing material for liquid chromatography and method for the preparation thereof. 4,686,269, 8-11-87, Cl. 526-336.000.

Tokunaga, Norikazu; Fukui, Hiroshi; Watanabe, Kouzou; Amano, Hisao; and Sato, Masayoshi, to Hitachi, Ltd. Semiconductor switching device having plural MOSFET's, GTO's or the like connected in series. 4,692,643, 9-8-87, Cl. 307-584.000.

Tokunaga, Yukio: *See*—
Saeki, Yukio; Inoue, Naomitsu; and Tokunaga, Yukio, 4,694,028, Cl. 521-110.000.
Saeki, Yukio; Inoue, Naomitsu; and Tokunaga, Yukio, 4,698,370, Cl. 521-128.000.

Tokuno, Akihira: *See*—
Yasuda, Syoichi; Tokuno, Akihira; Futada, Akihiko; Hayashi, Yoshiharu; Kobori, Kiyoshi; and Ishida, Takayoshi, 4,700,220, Cl. 358-44.000.

Tokuno, Masateru; Sawada, Tetsuya; and Mori, Yasuharu, to Rengo Co., Ltd. Color printing machine. 4,658,723, 4-21-87, Cl. 101-181.000.

Tokuno, Masateru; Sawada, Tetsuya; and Ishii, Yoshihiro, to Rengo Co., Ltd. Apparatus for automatically mounting a web roll on a mill roll stand. 4,682,743, 7-28-87, Cl. 242-58.600.

Tokuno, Masateru; and Sawada, Tetsuya, to Rengo Co., Ltd. Tool positioning device. 4,684,360, 8-4-87, Cl. 493-367.000.

Tokuno, Masateru; Sawada, Tetsuya; and Mori, Yasuharu, to Rengo Co., Ltd. Rotary cutter. 4,696,212, 9-29-87, Cl. 83-343.000.

Tokuno, Sanji, to Kyowa Hakko Kogyo Co., Ltd. Heat pump. 4,638,642, 1-27-87, Cl. 62-498.000.

Tokuoka, Hiroshi: *See*—
Fujioka, Yoshiki; and Tokuoka, Hiroshi, 4,703,262, Cl. 324-208.000.

Tokuoka, Yasumichi; Yamakawa, Yoshisuke; and Watanabe, Akio, to TDK Corporation. Magnetic recording medium. 4,663,246, 5-5-87, Cl. 428-694.000.

Tokuoka, Yasumichi; Arai, Hitoshi; Higuchi, Norio; and Hotsuki, Hideki, to TDK Corporation. Magnetic recording medium. 4,670,337, 6-2-87, Cl. 428-323.000.

Tokuoka, Yasumichi; Yamakawa, Yoshisuke; and Watanabe, Akio, to TDK Corporation. Method of making a magnetic recording medium. 4,684,546, 8-4-87, Cl. 427-130.000.

Tokuono, Shinya: *See*—
Yamashita, Ichiro; Wakamiya, Masayuki; Hase, Hiroyuki; and Tokuono, Shinya, 4,696,192, Cl. 73-728.000.

Tokura, Go; Arakawa, Kazuhiko; and Terashima, Jun, to Canon Kabushiki Kaisha. Both-side flexible printed circuit board. 4,716,259, 12-29-87, Cl. 174-68.500.

Tokura, Go: *See*—
Arakawa, Kazuhiko; Tokura, Go; Fujibayashi, Kazuo; Kiuchi, Masayoshi; and Harada, Yoshihito, 4,692,008, Cl. 354-217.000.
Arakawa, Kazuhiko; Harada, Yoshihito; Kiuchi, Masayoshi; Tokura, Go; and Fujibayashi, Kazuo, 4,707,097, Cl. 354-217.000.
Arakawa, Kazuhiko; Terashima, Jun; and Tokura, Go, 4,711,548, Cl. 354-485.000.
Yamada, Akira; and Tokura, Go, 4,681,421, Cl. 354-485.000.

Tokura, Isao: *See*—
Shimano, Noriyuki; Tokura, Isao; and Yamada, Mitsuhiko, 4,680,642, Cl. 358-280.000.

Tokura, Koichi; and Tayake, Masazumi, to Risho Kogyo Co., Ltd. High-tension capacitor. 4,654,751, 3-31-87, Cl. 361-328.000.

Tokura, Norihito; Kawai, Hisasi; and Goto, Masahiro, to Nippon Soken, Inc. Apparatus for controlling ignition in internal combustion engine. 4,674,467, 6-23-87, Cl. 123-644.000.

Tokura, Norihito; and Kawai, Hisasi, to Nippon Soken, Inc. Displacement sensor including a magnetically responsive member and a pair of piezoelectric elements. 4,677,378, 6-30-87, Cl. 324-208.000.

Tokura, Norihito; Moritugu, Mitiyasu; and Kawai, Hisasi, to Nippon Soken, Inc. Device for measuring flow rate of air. 4,693,115, 9-15-87, Cl. 73-204.000.

Tokura, Norihito; Kawai, Hisasi; Goto, Masahiro; Morino, Seiji; and Soumiya, Masato, to Nippon Soken, Inc.; and Nippondenso Co., Ltd. Ignition device for an internal combustion engine. 4,702,221, 10-27-87, Cl. 123-606.000.

Tokura, Norihito: *See*—
Moritugu, Mitiyasu; Kawai, Hisasi; and Tokura, Norihito, 4,644,212, Cl. 310-317.000.

Tokura, Yoshinori: *See*—
Hanamura, Eiichi; Tokura, Yoshinori; Takada, Akio; and Itsubo, Akiro, 4,678,736, Cl. 430-270.000.

Tokuriki Honten Company, Limited: *See*—
Daigo, Yasuhito; Horibe, Takashi; Inage, Kengo; Nanae, Shigeyasu; Nara, Takashi; Okamoto, Yoshizo; and Yamamoto, Hironobu, 4,659,384, Cl. 106-35.000.

Tokusen Kogyo Kabushiki Kaisha: *See*—
Shiba, Takeshi; Shimizu, Toshiaki; and Yanase, Fumihiro, 4,659,437, Cl. 204-28.000.

Tokushima, Tadao: *See*—
Takahashi, Toshiro; Tokushima, Tadao; Suzuki, Yoshifumi; and Wakui, Yukio, 4,681,669, Cl. 204-35.100.

Tokushima, Takashige: *See*—
Tanaka, Hideki; Tokushima, Takashige; Higashi, Haruki; and Hamada, Shigeki, 4,699,097, Cl. 123-192.00R.

Tokushima, Yasuo: *See*—
Kusunoki, Gen; Meguro, Akira; Tokushima, Yasuo; Ohta, Koji; Kawai, Tadashi; and Sugata, Akihiko, 4,667,621, Cl. 118-687.000.
Takata, Hideyuki; Tokushima, Yasuo; Katoh, Kaname; and Tachi, Hideo, 4,670,994, Cl. 34-39.000.

Tokushu Kika Kogyo Kabushiki Kaisha: *See*—
Furuichi, Akira; and Iijima, Akira, 4,637,555, Cl. 241-46.020.

Tokusyuku, Nobuhiro: *See*—
Ishigaki, Masaji; Ohishi, Tetsu; Tokusyuku, Nobuhiro; Kodera, Yoshie; and Fukui, Yukio, 4,645,712, Cl. 428-433.000.

Tokuyama, Keiichi; Naito, Shintaro; and Masuda, Mitsuhiro, to Hitachi, Ltd. Display apparatus for vehicle. 4,635,034, 1-6-87, Cl. 340-52.00F.

Tokuyama, Keiichi; Masuda, Mitsuhiro; Igarashi, Osamu; and Hasegawa, Taiji, to Hitachi, Ltd. Height adjusting apparatus for motor vehicle. 4,700,303, 10-13-87, Cl. 364-424.000.

Tokuyama, Keiichi: *See*—
Kugo, Masaru; Ouchi, Hideyuki; Katogi, Kouzou; Igarashi, Osamu; Suda, Seiji; Tokuyama, Keiichi; and Yamamura, Hirohisa, 4,708,440, Cl. 350-339.00F.
Masuda, Mitsuhiro; Igarashi, Osamu; Tokuyama, Keiichi; and Katogi, Kozo, 4,649,381, Cl. 340-784.000.

Tokuyama Soda Kabushiki Kaisha: *See*—
Kida, Yasuji; Miura, Kaoru; and Kawaguchi, Izumi, 4,647,639, Cl. 526-293.000.
Kuramoto, Nobuyuki; Takada, Kazuya; and Numata, Yoshihiko, 4,642,298, Cl. 501-96.000.
Nakahara, Akihiko; Takata, Kuniaki; and Iseki, Yuji, 4,680,355, Cl. 526-243.000.
Sata, Toshikatsu; Katsube, Teruaki; and Iida, Yoshiya, 4,715,691, Cl. 350-357.000.

Tokuyama, Takashi: *See*—
Koh, Hiroshi; and Tokuyama, Takashi, 4,662,225, Cl. 73-655.000.

Tokuyama, Yoshio, to Victor Company of Japan, Ltd. Back-space editing control circuit for rotary-head magnetic tape recording and reproducing apparatus. 4,680,649, 7-14-87, Cl. 360-14.200.

Tokuyama, Yoshio, to Victor Company of Japan, Ltd. Drum servo circuit. 4,688,114, 8-18-87, Cl. 360-70.000.

Tokuzo Hirose: *See*—
Shimizu, Hiromitsu, 4,665,850, Cl. 112-231.000.

Tokuzou, Tsujimoto: *See*—
Hashimoto, Kenki; Doi, Haruo; Tokuzou, Tsujimoto; Osamu, Nakano; and Minoru, Nobuki, 4,661,316, Cl. 420-418.000.

Tokya Shibaura Denki Kabushiki Kaisha: *See*—
Hosaka, Yasuo, 4,716,456, Cl. 358-75.000.

Tokyo Aircraft Instrument Co., Ltd.: *See*—
Nakamura, Shuji, 4,682,171, Cl. 340-975.000.

Tokyo Automatic Machinery Works, Ltd.: *See*—
Kuga, Hisashi; and Sasaki, Chikara, 4,644,150, Cl. 253-223.00R.
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,661,034, Cl. 414-416.000.
Kumata, Katsuhiko; Endo, Isao; Numa, Syozi; Hirose, Ichiro; Sagawa, Takayoshi; and Matono, Katsuyoshi, 4,696,617, Cl. 414-422.000.
Sato, Minoru; and Kanai, Takayuki, 4,633,654, Cl. 53-511.000.
Sato, Minoru, 4,645,558, Cl. 156-351.000.
Takahashi, Shizuo; and Yamashita, Kiyoshi, 4,640,083, Cl. 53-551.000.

Tokyo Broadcasting System, Inc.: *See*—
Nakajima, Takeshi; Kouyama, Toshitake; and Onosato, Masashi, 4,689,676, Cl. 358-149.000.

Tokyo Denshi Kagaku Kabushiki Kaisha: *See*—
Hashimoto, Akira; Nishimura, Toshihiro; Nakayama, Muneo; Nakane, Hisashi; and Toda, Shozo, 4,694,040, Cl. 524-765.000.

Tokyo Electric Co., Ltd.: *See*—
Andeen, Gerry B.; Matsumoto, Yasuo; and Cohn, Patricia O., 4,647,945, Cl. 346-1.100.
Fujiwara, Tsutomu; Matsuda, Susumu; Murakami, Keisuke; Ogawa, Izumi; Tago, Mamoru; Aoki, Chihiro; Doi, Masahiro; and Anno, Hiroshi, 4,711,443, Cl. 271-126.000.
Hamano, Koichi; Yamato, Hajime; and Karasawa, Hideo, 4,661,908, Cl. 364-405.000.
Hirosaki, Yukihiro; Koike, Seiji; and Hamada, Motonobu, 4,666,319, Cl. 400-120.000.
Hirosaki, Yukihiro; Koike, Seiji; Hamada, Motonobu; Ohhata, Takahiko; Inoue, Yasuo; Katibe, Haruyuki; and Hama, Hideki, 4,671,844, Cl. 156-542.000.
Horiya, Keiichi; Takahama, Kazuhide; Kishino, Yasuichi; and Sato, Koichiro, 4,652,154, Cl. 400-120.000.
Horiya, Keiichi; Takahama, Kazuhide; and Usami, Yutaka, 4,683,479, Cl. 346-76.0PH.
Hujita, Yutaka, 4,692,679, Cl. 318-696.000.
Ichitani, Tetsuro; and Saito, Shunzi, 4,652,950, Cl. 360-105.000.
Iida, Yuji, 4,680,707, Cl. 364-405.000.
Ishii, Hidekazu; and Kosaka, Chihiro, 4,693,619, Cl. 400-212.000.
Ishikawa, Mamoru, 4,670,661, Cl. 307-66.000.
Kawaguchi, Katsuhiko, 4,693,621, Cl. 400-636.100.
Kurimoto, Yukuo, 4,656,345, Cl. 235-472.000.
Matsui, Tsutomu; Fuji, Shinichiro; and Kakishima, Mitsutoshi, 4,643,597, Cl. 400-124.000.
Matsushita, Tsuyoshi; Maekawa, Motoi; and Takahashi, Makoto, 4,684,275, Cl. 400-479.000.
Matsushita, Tsuyoshi, 4,710,043, Cl. 400-144.200.
Nakayama, Tetsuro, 4,706,098, Cl. 346-140.00R.
Nakayama, Tetsuroh, 4,700,204, Cl. 346-140.00R.
Nakayama, Tetsuroh, 4,710,784, Cl. 346-140.00R.
Narushima, Tsugio; Arai, Tsutomu; and Doumoto, Yasuo, 4,634,304, Cl. 400-691.000.
Nishimura, Yoshiharu, 4,657,347, Cl. 350-332.000.
Nishiyama, Yoshihisa, 4,633,721, Cl. 73-862.670.
Nishiyama, Yoshihisa; and Fuji, Noriyasu, 4,661,803, Cl. 340-347.0NT.
Oba, Harutaro, 4,647,032, Cl. 271-186.000.
Oba, Harutaro; Ozawa, Yasuhiko; Yamaguchi, Yasuyoshi; and Mimoto, Osamu, 4,681,422, Cl. 355-3.00R.
Okuno, Shigeru; Torisawa, Yoshihiro; Endo, Mitsuharu; Nakayama, Tetsuroh; Shimosato, Masashi; and Fukushima, Takafumi, 4,696,589, Cl. 400-119.000.
Saito, Shunji, 4,644,426, Cl. 360-71.000.
Saito, Shunji, 4,665,445, Cl. 360-71.000.
Sakura, Yasuhiro; Nimura, Hitoshi; and Nakayama, Satoshi, 4,638,332, Cl. 346-76.0PH.
Sakura, Yasuhiro, 4,639,287, Cl. 156-361.000.
Sakura, Yasuhiro; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,639,743, Cl. 346-76.0PH.
Sakura, Yasuhiro; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,641,147, Cl. 346-76.0PH.
Sakura, Yasuhiro; Haraga, Koichi; Nimura, Hitoshi; and Ishikawa, Mamoru, 4,697,938, Cl. 400-120.000.
Sato, Akira, 4,660,823, Cl. 271-22.000.
Sato, Masafumi; and Matsushita, Tsuyoshi, 4,653,945, Cl. 400-144.200.
Sato, Masafumi, 4,663,722, Cl. 364-478.000.
Shimosato, Masashi; Torisawa, Yoshihiro; Nishikawa, Hisashi; and Endo, Mitsuharu, 4,646,111, Cl. 346-140.00R.
Suzuki, Seiji; Nishiyama, Yoshihisa; and Kitagawa, Tohru, 4,711,314, Cl. 177-164.000.
Tajima, Noriyasu, 4,655,304, Cl. 177-4.000.
Tajima, Noriyasu; Aoba, Kunihiko; and Mihara, Hidemi, 4,660,160, Cl. 364-567.000.
Tajima, Noriyasu; Sakura, Yasuhiro; Futakata, Takashi; Senda, Kouji; and Seki, Kazuaki, 4,700,792, Cl. 177-178.000.
Takai, Yoshihiro; Uematsu, Katsumi; and Suzuki, Michio, 4,661,001, Cl. 400-103.000.
Takashi, Kazuaki, 4,673,856, Cl. 318-696.000.
Uchimura, Mitsuo; and Masuyama, Tsutomu, 4,660,667, Cl. 177-164.000.
Uchimura, Mitsuo; and Masuyama, Tsutomu, 4,690,230, Cl. 177-229.000.
Uchimura, Mitsuo; and Masuyama, Tsutomu, 4,693,330, Cl. 177-25.000.
Unno, Shohei; Nakakawazi, Mikio; and Suzuki, Kazufumi, 4,692,760, Cl. 340-756.000.
Ushijima, Yasuhiro; Kitagawa, Tohru; Ohyoshi, Sadao; and Nishiyama, Yoshihisa, 4,674,342, Cl. 73-862.650.
Yagi, Motoi; and Miyabayashi, Tadao, 4,675,751, Cl. 360-10.100.
Yagi, Motoi; and Miyabayashi, Tadao, 4,680,631, Cl. 358-160.000.
Yagi, Takashi; Horii, Yoshiharu; and Domoto, Yasuo, 4,697,942, Cl. 400-208.000.
Yamamoto, Mikio, 4,683,536, Cl. 364-408.000.
Tokyo Electric Power Co., Inc., The: *See*—
Suzuki, Mamoru; and Fukui, Shinta, 4,641,248, Cl. 364-492.000.
Tokyo Gas Co., Ltd.: *See*—
Kawase, Akira; and Imamura, Minoru, 4,704,897, Cl. 73-40.50R.
Ohtsuga, Hisao; Morinaga, Akio; Sakaguchi, Yoichi; Hyodo, Masakatsu; and Yagi, Isaburo, 4,684,556, Cl. 428-36.000.
Omori, Toshiaki, 4,645,125, Cl. 237-12.000.
Yoshida, Shoji; Haru, Yasuhiko; Kosaka, Etsuji; Ikeda, Toshimichi; Aoyama, Mikio; and Iida, Takeo, 4,691,788, Cl. 175-62.000.
Tokyo Gas Kabushiki Kaisha: *See*—
Ueki, Takashi; and Ishikawa, Yoshihiro, 4,638,789, Cl. 126-351.000.
Tokyo Institute of Technology: *See*—
Minami, Kazuo; and Awano, Mitsuru, 4,642,571, Cl. 328-59.000.
Tokyo Juki Industrial Co., Ltd.: *See*—
Ase, Hideo; Fujino, Hirohisa; and Saibe, Seiichi, 4,712,493, Cl. 112-112.000.
Fujihara, Masaaki; Fuji, Ikunori; and Fujita, Shuji, 4,709,644, Cl. 112-237.000.
Futsuhara, Yoshio, 4,649,837, Cl. 112-121.120.
Goto, Sumio; Ishibashi, Jiro; and Nemoto, Masakazu, 4,682,554, Cl. 112-262.100.
Hiramatsu, Tooru; Tami, Kazuya; and Osawa, Kozo, 4,648,335, Cl. 112-114.000.
Kinoshita, Tomoaki; Takano, Kunio; and Tachikawa, Osamu, 4,646,246, Cl. 364-470.000.
Kinoshita, Tomoaki; Takano, Kunio; Okiyama, Yoichi; and Tachikawa, Osamu, 4,683,827, Cl. 112-121.120.
Kinoshita, Tomoaki; Takano, Kunio; Nukushina, Masanori; Wada, Minoru; and Tokunaga, Hiroshi, 4,692,871, Cl. 364-470.000.
Miyake, Tomohisa; Kataigi, Tsutomu; and Shinozuka, Toshinobu, 4,669,900, Cl. 400-322.000.
Miyake, Tomohisa, 4,688,956, Cl. 400-304.000.
Mizuno, Takashi; and Kobayashi, Akihiro, 4,674,420, Cl. 112-78.000.
Muroi, Shiyouzi; and Taguchi, Katsuhiko, 4,649,843, Cl. 112-270.000.
Nakamura, Masaya, 4,705,167, Cl. 206-348.000.
Nukushina, Masanori, 4,704,977, Cl. 112-266.100.
Okuda, Kazuhiro; Tanaka, Makoto; and Kuramitsu, Wataru, 4,641,830, Cl. 271-274.000.
Satoma, Shiro, 4,690,079, Cl. 112-162.000.
Shibuya, Tsuyoshi, 4,644,213, Cl. 310-328.000.
Shibuya, Tsuyoshi, 4,647,808, Cl. 310-328.000.
Shiga, Norio, 4,643,600, Cl. 400-157.200.
Shindou, Norikazu, 4,694,209, Cl. 310-12.000.
Shiomi, Kengo; Asai, Toshimasa; and Kato, Toshiyuka, 4,674,424, Cl. 112-237.000.
Shiomi, Kengo; Sasaki, Yoshiyuki; and Kato, Toshiyuki, 4,694,305, Cl. 346-76.0PH.
Shiomi, Kengo, 4,706,587, Cl. 112-237.000.
Taguchi, Katsuhiko, 4,691,257, Cl. 360-97.000.
Takano, Kunio; Nukushina, Masanori; and Miyamoto, Toshiyuki, 4,665,846, Cl. 112-121.120.
Takano, Kunio; and Nukushina, Masanori, 4,665,847, Cl. 112-121.120.
Takano, Kunio; Nukushina, Masanori; Okiyama, Yoichi; and Miyamoto, Toshiyuki, 4,691,649, Cl. 112-121.120.
Takano, Kunio; and Nukushina, Masanori, 4,694,762, Cl. 112-121.120.
Tami, Kazuya, 4,693,197, Cl. 112-277.000.
Tsukioka, Takashi, 4,699,072, Cl. 112-235.000.
Tsukioka, Takashi, 4,706,589, Cl. 112-302.000.
Yasui, Hideo, 4,660,484, Cl. 112-457.000.
Yasui, Hideo, 4,693,192, Cl. 112-121.110.
Tokyo Kagaku Kikai Kabushiki Kaisha: *See*—
Hori, Nobuo; Yokokura, Takashi; and Ohtomo, Fumio, 4,660,290, Cl. 33-366.000.
Koizumi, Hiroshi; Kijima, Masatsugu; and Tanaka, Sinya, 4,692,924, Cl. 372-30.000.
Tokyo Keiki Company, Ltd.: *See*—
Ito, Kimiaki; Ueno, Tetsuo; Ueno, Koichi; and Ishii, Susumu, 4,691,659, Cl. 114-144.00R.
Kato, Kuniaki; and Takahashi, Mutsumi, 4,673,254, Cl. 350-345.000.
Kikuchi, Makoto; Mori, Shinsaku; Nikawa, Yoshio; and Terakawa, Takashige, 4,690,156, Cl. 128-804.000.
Numaho, Yoshio; Kato, Yoshio; Ogawa, Tetsuro; Okada, Hiroshi; and Arima, Kiyoshi, 4,663,630, Cl. 342-176.000.
Takeuchi, Kunihiko; Baba, Fujio; Shimomura, Yasuo; and Morishige, Yuji, 4,682,166, Cl. 340-825.500.
Takeuchi, Kunihiko; and Morishige, Yuge, 4,703,244, Cl. 318-696.000.
Takeuchi, Kunihiko; and Nogi, Hiroshi, 4,706,703, Cl. 137-487.500.
Tokyo Kikai Seisakusho, Ltd.: *See*—
Hayashi, Mamoru; and Kawamori, Hideo, 4,715,922, Cl. 156-361.000.
Sato, Masayoushi; and Harada, Noritake, 4,637,310, Cl. 101-426.000.
Tokyo Kogaku Kikai Kabushiki Kaisha: *See*—
Iwai, Hideo; Kondo, Fumitomo; and Kimura, Akio, 4,656,878, Cl. 74-89.150.
Kamiyama, Kiichi; and Kato, Yasuo, 4,712,895, Cl. 351-243.000.
Kenji, Yabusaki; Hitoshi, Tozawa; Akira, Noda; and Takashi, Ito, 4,708,477, Cl. 356-222.000.
Kitajima, Nobuaki, 4,652,094, Cl. 350-514.000.
Kobayashi, Katsuhiko, 4,665,923, Cl. 128-648.000.
Nakamura, Shinichi; Tomoda, Hideo; and Kochi, Nobuo, 4,676,004, Cl. 33-507.000.
Nishimura, Shinichi; and Kitajima, Nobuaki, 4,657,357, Cl. 350-516.000.
Nishimura, Shinichi, 4,705,045, Cl. 128-648.000.
Nunokawa, Kazuo, 4,712,894, Cl. 351-208.000.
Ohtomo, Fumio; Hori, Nobuo; Horikawa, Yoshio; Kimura, Kazuaki; and Sugai, Hiroo, 4,692,023, Cl. 356-5.000.
Takahashi, Susumu, 4,673,264, Cl. 351-211.000.

Takashi, Shiouri; Katsuhiko, Kobayashi; and Hideo, Tago, 4,679,920, Cl. 351-226.000.
Tamaki, Hiroshi; Kondo, Fumitomo; and Sugai, Hiroo, 4,666,299, Cl. 356-138.000.
Tanaka, Shinya; and Sato, Masaru, 4,663,520, Cl. 250-205.000.
Wada, Shinji; and Kobayashi, Katsuhiko, 4,676,612, Cl. 351-211.000.
Yoshino, Hisakazu; Nishimura, Shinichi; and Takagi, Kazutoshi, 4,702,570, Cl. 350-516.000.
Yoshino, Hisakazu; Nishimura, Shinichi; and Sasaki, Kazuyuki, 4,711,540, Cl. 351-214.000.
Yoshino, Hisakazu; Nishimura, Shinichi; and Sasaki, Kazuyuki, 4,711,541, Cl. 351-214.000.

Tokyo Ohka Kogyo Co., Ltd.: *See*—
Ishii, Wataru; Miyazawa, Shozo; Tsuchiya, Shinji; Nakane, Hisashi; and Yokota, Akira, 4,702,992, Cl. 430-272.000.

Tokyo Pigeon Co., Ltd.: *See*—
Umino, Kunio, 4,698,705, Cl. 360-92.000.

Tokyo Roki Co., Ltd.: *See*—
Fujimoto, Etsuo, 4,655,921, Cl. 210-489.000.
Fujimoto, Etsuo, 4,673,503, Cl. 210-493.100.

Tokyo Rope Manufacturing Co., Ltd.: *See*—
Honda, Kenji, deceased; and Sawafuji, Tadaaki, 4,677,818, Cl. 57-224.000.

Tokyo Sanyo Elec: *See*—
Hineno, Kazuhiro; and Kura, Atsushi, 4,653,664, Cl. 221-3.000.

Tokyo Sanyo Electric: *See*—
Takizawa, Takashi; and Tanaka, Tsutomu, 4,648,247, Cl. 62-256.000.

Tokyo Sanyo Electric Co.: *See*—
Fukamachi, Toshio; Matsuda, Kazuto; Noma, Kouichi; Kawada, Toshiaki; Sakurai, Toshio; and Osawa, Takeshi, 4,643,351, Cl. 236-44.00E.

Tokyo Sanyo Electric Co., Ltd.: *See*—
Hosoya, Yoshinori; Tunekawa, Shyozi; Yamada, Wazoh; and Shiraishi, Akira, 4,637,223, Cl. 62-263.000.
Tanaka, Kanji; and Arai, Masashi, 4,707,856, Cl. 381-15.000.

Tokyo Seat Kabushiki Kaisha: *See*—
Masuda, Masamichi; Sawai, Shinichi; and Ishii, Naoto, 4,654,272, Cl. 428-474.400.

Tokyo Shibaura Denki Kabushiki Kaisha: *See*—
Abe, Masahiro; Aoyama, Masaharu; Ajima, Takashi; and Yonezawa, Toshio, 4,636,832, Cl. 357-68.000.
Akutsu, Mitsuru, 4,635,392, Cl. 360-130.320.
Ando, Hideo, 4,650,982, Cl. 250-201.000.
Bannai, Akira; and Suzuki, Shohei, 4,654,782, Cl. 364-200.000.
Eguchi, Kazutoshi, 4,646,230, Cl. 364-200.000.
Fujise, Masakuni, 4,641,328, Cl. 378-8.000.
Furuyama, Tohru; and Uchida, Yukimasa, 4,697,252, Cl. 365-189.000.
Hashimoto, Hiroshi, 4,703,413, Cl. 364-147.000.
Hashimoto, Masaru, 4,652,900, Cl. 357-34.000.
Hashimoto, Susumu, 4,653,647, Cl. 209-534.000.
Hidaka, Kazutaka; and Suehiro, Kenji, 4,647,937, Cl. 343-742.000.
Hirai, Shoichi; and Watanabe, Sedakazu, 4,716,593, Cl. 381-42.000.
Hiraki, Shunichi; Usuki, Yoshikazu; and Takimoto, Kazuhiro, 4,647,472, Cl. 427-39.000.
Hosaka, Yasuo, 4,707,615, Cl. 250-578.000.
Ichikawa, Osamu; and Sadamasa, Tetsuo, 4,647,927, Cl. 340-801.000.
Iizuka, Tetsuya, 4,639,758, Cl. 357-42.000.
Iizuka, Tetsuya; Fuji, Syuso; and Uchida, Yukimasa, 4,641,165, Cl. 357-23.600.
Ikenaga, Osamu, 4,701,053, Cl. 356-375.000.
Ikoma, Toshiaki; Maeda, Hajime; Yanai, Hisayoshi; Dang, Ryo; and Shigyo, Naoyuki, 4,636,824, Cl. 357-23.140.
Ishida, Takao; and Shimono, Mamoru, 4,641,947, Cl. 355-3.00R.
Ito, Akira; and Kawashima, Kouzou, 4,672,270, Cl. 315-73.000.
Ito, Takeshi, 4,680,652, Cl. 360-72.100.
Itou, Shouichi; Kaneko, Makoto; and Yasuhara, Hiroshi, 4,644,395, Cl. 358-111.000.
Iwahashi, Hiroshi; and Masuoka, Fujio, 4,635,232, Cl. 365-200.000.
Iwahashi, Hiroshi; and Ochii, Kiyofumi, 4,639,895, Cl. 365-200.000.
Iwamura, Jun, 4,635,037, Cl. 340-347.0AP.
Kanto, Masaharu; Akiyoshi, Eiichi; and Ohtake, Yasuhisa, 4,708,680, Cl. 445-47.000.
Kanuma, Akira, 4,649,508, Cl. 364-748.000.
Katagiri, Shuhei, 4,647,148, Cl. 350-96.200.
Katayama, Yoshitaka; Nabeshima, Daiki; and Nakamura, Shinichi, 4,716,558, Cl. 369-33.000.
Kato, Ichiro; and Suzuki, Sigekazu, 4,662,124, Cl. 51-283.00R.
Kikuchi, Katsuya; and Honda, Michitaka, 4,653,080, Cl. 378-7.000.
Kimoto, Katsumi, 4,695,989, Cl. 369-32.000.
Kinoshita, Hiroyuki; and Ono, Michihiro, 4,688,065, Cl. 357-23.130.
Kinoshita, Tsuneo, 4,675,849, Cl. 365-230.000.
Kohyama, Mitsuaki; Ishida, Haruhiko; Kasai, Toshihiro; aad Osawa, Shigenobu, 4,647,181, Cl. 355-4.000.
Kohyama, Mitsuaki, 4,671,641, Cl. 355-3.0DD.
Kojima, Takuya; Miyashiro, Shoichi; and Aramaki, Yoshimitsu, 4,654,649, Cl. 340-719.000.
Komatsu, Fumio, 4,644,170, Cl. 250-492.200.
Komatsu, Kenichi; and Fujii, Senzo, 4,636,954, Cl. 364-414.000.
Komatsu, Michiyasu, 4,713,302, Cl. 428-698.000.
Komatsu, Shuichi; Shimotori, Kazumi; Takeda, Hiromitsu; and Nakahashi, Masako, 4,681,251, Cl. 228-208.000.
Konaka, Masami; Shigyo, Naoyuki; and Dang, Ryo, 4,651,411, Cl. 29-576.00W.
Koshigoe, Shinpei; and Fujiwara, Takeshi, 4,641,058, Cl. 313-449.000.
Kuwabara, Michiaki; and Hayashi, Hiromasa, 4,646,132, Cl. 357-80.000.
Maeda, Kenichi; and Niita, Tsuneo, 4,651,289, Cl. 364-513.500.
Masuda, Eiji; and Sakamoto, Shigeni, 4,638,303, Cl. 340-347.0DA.
Masuda, Eiji; and Matsuo, Kenji, 4,656,429, Cl. 328-149.000.
Matsubayashi, Takayuki, 4,649,555, Cl. 378-4.000.
Matsuo, Kenji; Sasaki, Itsuo; Suzuki, Hiroaki; and Kunieda, Misuyuki, 4,716,308, Cl. 307-303.000.
Mine, Susumu; and Ishizaka, Takao, 4,640,005, Cl. 29-599.000.
Minekane, Tomiharu; and Matsumoto, Kouji, 4,664,885, Cl. 422-65.000.
Minekane, Tomiharu, 4,685,801, Cl. 356-328.000.
Miyamoto, Junichi; and Iizuka, Tetsuya, 4,642,673, Cl. 357-23.500.
Miyawaki, Naokazu; and Ogura, Mitsugi, 4,644,184, Cl. 307-269.000.
Mizunoya, Nobuyuki; Kohama, Hajime; and Suguira, Yasuyuki, 4,693,409, Cl. 228-122.000.
Mizutani, Yoshihisa, 4,665,418, Cl. 357-23.500.
Mizutani, Yoshihisa, 4,698,659, Cl. 357-42.000.
Mori, Yasuki; and Kamiya, Akihiro, 4,634,927, Cl. 313-486.000.
Muraoka, Takao, 4,652,949, Cl. 360-96.500.
Murata, Tsuneo; Hirata, Yoshihiro; Miyagawa, Toshio; and Nishikawa, Fumikazu, 4,670,791, Cl. 358-256.000.
Nagano, Katsumi, 4,652,764, Cl. 250-551.000.
Nagashima, Sumio; Suzuki, Etsuji; Chiyoda, Kiyomu; and Kodama, Masahiro, 4,644,584, Cl. 382-34.000.
Naka, Shigekatsu, 4,692,090, Cl. 415-112.000.
Nakamura, Hiroshi, 4,654,777, Cl. 364-200.000.
Nakamura, Yoshiaki, 4,642,186, Cl. 210-257.100.
Nishihara, Eitaro, 4,682,289, Cl. 364-414.000.
Obata, Yoshiharu; Noji, Takashi; Sugiyama, Masahiro; and Kawamura, Shigeharu, 4,654,558, Cl. 313-372.000.
Oda, Goro; and Ishida, Haruhiko, 4,664,504, Cl. 355-15.000.
Ogura, Mitsugi, 4,636,981, Cl. 365-203.000.
Ogura, Tsuneo, 4,646,121, Cl. 357-38.000.
Ohashi, Hiromichi, 4,649,410, Cl. 357-30.000.
Ohtsubo, Yasuo, 4,646,180, Cl. 360-103.000.
Okado, Chihiro; Ichimura, Kazushi; and Ambo, Tatsuaki, 4,646,222, Cl. 363-56.000.
Okajima, Masaki; Motegi, Nawoto; and Muto, Yuhei, 4,647,953, Cl. 357-17.000.
Onishi, Yasunobu; Havase, Shuzi; Suzuki, Shuichi; and Wada, Moriyasu, 4,666,951, Cl. 522-8.000.
Ono, Takuro, 4,646,302, Cl. 360-137.000.
Onuma, Shouji, 4,641,282, Cl. 365-189.000.
Roppongi, Makoto; and Tsuji, Kazuaki, 4,649,409, Cl. 357-30.000.
Saito, Kazuyoshi; Iida, Taketoshi; Shirasaka, Toshio; and Takemura, Yasuhiko, 4,665,924, Cl. 128-660.000.
Saito, Mitsuo; Aikawa, Takeshi; and Mori, Akio, 4,688,032, Cl. 340-799.000.
Saito, Tamio; and Suzuki, Kouhei, 4,672,221, Cl. 250-578.000.
Sakamoto, Tsutomu, 4,642,757, Cl. 364-200.000.
Sakata, Tomio, 4,696,041, Cl. 381-46.000.
Sato, Shinsaku; and Yamagata, Ichiro, 4,640,664, Cl. 415-1.000.
Sekine, Hirokazu; Morimune, Katuhiko; Watanabe, Masaharu; and Suzuki, Nobuo, 4,649,408, Cl. 357-24.000.
Sekizawa, Hidekazu; Yamada, Kiyoshi; Miura, Shuzo; and Hosaka, Yasuo, 4,663,662, Cl. 358-75.000.
Shigehara, Hiroshi; and Tanaka, Fuminaru, 4,669,121, Cl. 381-51.000.
Shikata, Hiroshi, 4,636,116, Cl. 407-103.000.
Shinohara, Nobutaka; Hirakawa, Shuji; Minami, Akihiko; and Tanaka, Koichi, 4,646,154, Cl. 358-183.000.
Shiozaki, Masakazu; and Nishimura, Hidetaro, 4,682,204, Cl. 357-51.000.
Shiraishi, Takashi, 4,641,175, Cl. 357-39.000.
Sonobe, Yoshiaki; and Suzuki, Toshiyuki, 4,646,168, Cl. 360-18.000.
Sugai, Shinzo; Yamane, Shigemi; and Kuze, Takashi, 4,640,723, Cl. 148-411.000.
Sugimoto, Hiroshi, 4,656,423, Cl. 324-309.000.
Sumi, Masahiko, 4,644,469, Cl. 364-200.000.
Suzuki, Kaoru, 4,713,789, Cl. 364-724.000.
Suzuki, Kouji; Ikeda, Mitsushi; and Aoki, Toshio, 4,700,455, Cl. 437-83.000.
Suzuki, Yoshio, 4,701,665, Cl. 313-402.000.
Takamizawa, Kinya; and Uchiumi, Isao, 4,644,214, Cl. 310-334.000.
Takamura, Yoshio; and Nakajima, Akira, 4,651,268, Cl. 363-60.000.
Takano, Masayuki; and Ishiyama, Kazuhumi, 4,688,578, Cl. 128-660.000.
Takase, Hidetomo, 4,661,776, Cl. 324-309.000.
Takasu, Katsuji; and Okazaki, Kiyoshi, 4,675,731, Cl. 358-111.000.
Takeoka, Yoshikatsu; and Yasuda, Nobuaki, 4,647,947, Cl. 346-135.100.
Takesako, Sumiyoshi, 4,694,963, Cl. 209-534.000.
Takezawa, Hatsuo; Donuma, Kenichi; Katagiri, Shuhei; and Sakura, Shigeyuki, 4,695,858, Cl. 357-19.000.
Tokita, Kiyoshi; and Nakamura, Michio, 4,636,683, Cl. 313-403.000.
Tomita, Seiji, 4,636,895, Cl. 360-105.000.
Tomita, Seiji; Morinaga, Kaoru; and Kotoda, Yoshihiro, 4,646,187, Cl. 360-130.210.
Tomita, Seiji, 4,669,006, Cl. 360-93.000.
Tsubo, Shuzo, 4,674,736, Cl. 271-122.000.

Tsunoda, Yoshiaki; and Matsuda, Hideo, 4,695,871, Cl. 357-74.000.
Tsutsumi, Teruo; and Hori, Masao, 4,635,357, Cl. 29-850.000.
Ueno, Mitsushi; Shirogami, Tamotsu; and Segawa, Nobora, 4,661,423, Cl. 429-41.000.
Ueshin, Akito, 4,690,268, Cl. 198-399.000.
Ukita, Teruhiko; and Nitta, Tsuneo, 4,677,672, Cl. 381-43.000.
Ukita, Teruhiko; Nitta, Tsuneo; and Watanabe, Sadakazu, 4,677,673, Cl. 381-43.000.
Uneno, Tsuneiusa; Kamata, Yutaka; and Miyazaki, Sinji, 4,714,668, Cl. 430-316.000.
Unno, Hiroaki, 4,644,436, Cl. 360-137.000.
Ushiro, Sotaro, 4,654,791, Cl. 364-200.000.
Wada, Hirotsugu; Sano, Shunichi; Nakasuji, Mamoru; and Yoshikawa, Ryoichi, 4,647,782, Cl. 250-492.200.
Wada, Masashi, 4,692,785, Cl. 357-52.000.
Watanabe, Fumio, 4,647,362, Cl. 204-411.000.
Watanabe, Sadakazu; and Shinoda, Hidenori, 4,653,097, Cl. 381-42.000.
Yamamoto, Kazuhiko, 4,636,848, Cl. 358-102.000.
Yamasaki, Hiroshi, 4,707,815, Cl. 369-33.000.
Yamazaki, Mutsuaki; and Kaga, Eiichi, 4,641,168, Cl. 357-30.000.
Tokyo Shibaura Electric Co., Ltd.: *See*—
Onishi, Masayuki; Ito, Kenzo; and Asahi, Morio, 4,670,282, Cl. 426-508.000.
Onishi, Masayuki; Ito, Kenzo; and Asahi, Morio, 4,672,179, Cl. 219-441.000.
Takahashi, Kouichi; Ishida, Hidekuni; and Yonezawa, Toshio, 4,667,218, Cl. 357-63.000.
Tokyo University of Agriculture and Technology: *See*—
Higashi, Fukuji, 4,647,649, Cl. 528-179.000.
Toland, Martin J.: *See*—
LaZebnik, Robert H.; Breining, Frank E.; and Toland, Martin J., 4,657,478, Cl. 415-126.000.
Tolbert, William R.: *See*—
Geimer, Raymond C.; and Tolbert, William R., 4,639,422, Cl. 435-286.000.
Toldi, George; Nigam, Anil; Crain, Ronald; and Mercurio, Dominic, to Syquest Technology. Disc drive arrangement for a hard disc cartridge with a read/write head retract mechanism. 4,683,506, 7-28-87, Cl. 360-105.000.
Toldy, Lajos: *See*—
Solyom, Sandor; Toldy, Lajos; and Szilagyi nee Farago, Katalin, 4,668,437, Cl. 260-397.400.
Toledo, George F. Animal feeding apparatus. 4,665,863, 5-19-87, Cl. 119-51.130.
Toler, Charles E.: *See*—
Klug, Ralph W.; Toler, Charles E.; and Rylatt, John A., 4,702,878, Cl. 376-249.000.
Tolfsen, Ulf, to Loyds' Industri A.S. Fastening means for a safety belt for a car or the like. 4,670,951, 6-9-87, Cl. 24-637.000.
Tolino, Ralph W.; Smith, Edward H.; and Havoic-Conroy, Stephanie M., to Westinghouse Electric Corp. Portable and collapsible pipe crawler. 4,654,702, 3-31-87, Cl. 358-100.000.
Tolino, Ralph W.; King, William E.; Blickenderfer, Jack L.; and Roth, Charles H., jr., to Westinghouse Electric Corp. System for manipulating radioactive fuel rods within a nuclear fuel assembly. 4,696,784, 9-29-87, Cl. 376-245.000.
Toliver, Samuel: *See*—
Roberts, Gerald E.; Toliver, Samuel; and Crescenzi, Robert J., 4,676,993, Cl. 427-10.000.
Tolkoff, Marc J., to Norwich Eaton Pharmaceuticals, Inc. Elongated weighted medical device. 4,654,036, 3-31-87, Cl. 604-270.000.
Tolkoff, Marc J.: *See*—
Mueller, Peter R.; Brown, Alan S.; Tolkoff, Marc J.; and Crawford, Frank B., 4,705,040, Cl. 128-334.00R.
Tolksdorf, Wolfgang F. M.; Bartels, Inske E. H.; and Pross, Elke B., to U.S. Philips Corporation. Planar optical waveguide and process for its manufacture. 4,707,058, 11-17-87, Cl. 350-96.120.
Tolksdorf, Wolfgang F. M.; Bariels, Inske E. H.; Dammann, Hans O. B.; Klages, Claus-Peter; and Pross, Elke B., to U.S. Philips Corporation. Planar optical waveguide and method of manufacturing same. 4,712,855, 12-15-87, Cl. 350-96.120.
Tollefson, Dale T., to Minnesota Mining and Manufacturing Company. Leaf-spring roller guide. 4,648,563, 3-10-87, Cl. 242-76.000.
Tollefson, Scott; Wuertz, Howard A.; and Schultz, Charles R. Apparatus for burying conduit. 4,637,755, 1-20-87, Cl. 405-181.000.
Tollerud, Bruce A.; and Tollerud, Carol R. Nursing pad. 4,700,699, 10-20-87, Cl. 128-156.000.
Tollerud, Carol R.: *See*—
Tollerud, Bruce A.; and Tollerud, Carol R., 4,700,699, Cl. 128-156.000.
Tolley, Patrick, to Hydracine Fluid Power Limited. Digital servovalve. 4,673,160, 6-16-87, Cl. 251-129.050.
Tolley, Robert K.: *See*—
Harris, Charles E.; and Tolley, Robert K., 4,636,422, Cl. 428-174.000.
Tolley, Susan M., to Chevron Research Company. Method and apparatus for splitting a liquid-vapor mixture. 4,662,391, 5-5-87, Cl. 137-393.000.
Tolliver, Wilbur E. Concrete reinforcement spacer and method of use. 4,689,867, 9-1-87, Cl. 29-453.000.
Tollon, Franck: *See*—
LeToumelin, Loic; Tollon, Franck; and Leduc, Yves, 4,645,881, Cl. 379-252.000.
Tolman, J. Leonard; and Ekstrom, Joseph J., to Brigham Young University. Anti-piracy system using separate storage and alternate execution of selected proprietary and public portions of computer programs. 4,646,234, 2-24-87, Cl. 364-200.000.
Tolman, Jiri: *See*—
Smidrkal, Jan; Simunek, Jaroslav; Tolman, Jiri; Soucek, Jiri; Novacek, Alois; Novak, Jan; Krob, Vaclav; Kovar, Pavel; Klofec, Miroslav; and Vondracek, Bohumir, 4,637,894, Cl. 252-186.400.
Tolman, Richard: *See*—
MacCoss, Malcolm; and Tolman, Richard, 4,670,424, Cl. 514-81.000.
Tolman, Richard L.: *See*—
Marburg, Stephen; Tolman, Richard L.; and Kuskern, Peter J., 4,695,624, Cl. 530-395.000.
Tolnar, Emil J., Jr.: *See*—
Clark, Roger A.; Doherty, Paul D.; and Tolnar, Emil J., Jr., 4,684,196, Cl. 439-587.000.
Detter, Gary C.; Norling, Samuel A.; Penney, Janet S.; and Tolnar, Emil J., Jr., 4,634,204, Cl. 339-91.00R.
Tolner, Harm: *See*—
Hoeberechts, Arthur M. E.; Van Hal, Henricus A. M.; Tolner, Harm; and Van Gorkom, Gerardus G. P., 4,709,185, Cl. 313-346.00R.
Tolo, Inc.: *See*—
Gerondale, Joseph D., 4,676,533, Cl. 285-158.000.
Tolochko, Alexei I.: *See*—
Kudinov, Gennady A.; Lysenko, Evgeny E.; Ioshpa, Vladimir G.; Tolochko, Alexei I.; Shokul, Anatoly A.; and Nekrasov, Ignaty N., 4,676,487, Cl. 266-194.000.
Tolonen, Eric; Tubbe, Clifford J.; Giesbrecht, George G.; and Wiens, John A., to Uniroyal Goodrich Tire Company, The. Early progressive junction extrusion process and system. 4,683,095, 7-28-87, Cl. 264-171.000.
Tolpin, Thomas W.; and Kretchmer, Richard A., to Amoco Corporation. Process for simultaneously removing nitrogen oxides, sulfur oxides, and particulates. 4,692,318, 9-8-87, Cl. 423-239.000.
Tolson, Sydney S., to Ossid Corporation. Poultry basket water removal apparatus and method. 4,676,006, 6-30-87, Cl. 34-22.000.
Tolve, Pietro: *See*—
D'Angelo, Renato; Ramacciotti, Aldo; Repetto, Eugenio; and Tolve, Pietro, 4,645,534, Cl. 75-10.220.
Tom, Edward; and McGovern, Douglas E., to RCA Corporation. Security system. 4,706,069, 11-10-87, Cl. 340-541.000.
Tom, Glenn M., to Hercules Incorporated. Scavengers for the removal of impurities from arsine and phosphine. 4,659,552, 4-21-87, Cl. 423-219.000.
Tom, Glenn M., to Hercules Incorporated. Dicyclopentadiene polymer product. 4,661,575, 4-28-87, Cl. 526-283.000.
Tom, Glenn M., to Hercules Incorporated. Scavengers for the removal of impurities from arsine and phosphine. 4,696,953, 9-29-87, Cl. 521-146.000.
Tom, Glenn M., to Hercules Incorporated. Scavengers for the removal of impurities from arsine and phosphine. 4,716,181, 12-29-87, Cl. 521-53.000.
Tom-Kap-Co.: *See*—
Nettel, Hans, 4,701,089, Cl. 411-373.000.
Tom McGuane Industries, Inc.: *See*—
Detweiler, Charles A., 4,643,352, Cl. 236-48.00R.
Tom, Victor T., to Analytic Sciences Corporation, The. System for and method of enhancing images using multiband information. 4,683,496, 7-28-87, Cl. 358-166.000.
Toma, Daniel N.: *See*—
Kushner, Gerald J.; and Toma, Daniel N., 4,640,105, Cl. 68-23.300.
McMillan, Stephen L.; Akers, Alvin; and Toma, Daniel N., 4,637,231, Cl. 68-4.000.
Toma, Peter P. Method using a programmed digital computer system for translation between natural languages. 4,706,212, 11-10-87, Cl. 364-900.000.
Toma, Petre: *See*—
Livesey, Decla; B.; and Toma, Petre, 4,640,359, Cl. 166-276.000.
Toma, Shozo: *See*—
Morita, Tsutomu; Toma, Shozo; and Sakai, Yoshiaki, 4,651,235, Cl. 360-46.000.
Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hiraki, Kazuhiro; and Morita, Tsutomu, 4,677,510, Cl. 360-99.000.
Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hiraki, Kazuhiro; and Morita, Tsutomu, 4,688,112, Cl. 360-60.000.
Tsuyuguchi, Hiroshi; and Toma, Shozo, 4,658,307, Cl. 360-60.000.
Tomago, Akio: *See*—
Suzuki, Takashi; Odagiri, Masaru; Kai, Yoshiaki; Kitamaki, Hisayo; and Tomago, Akio, 4,647,507, Cl. 428-421.000.
Tomaki, Kenji: *See*—
Masuda, Noboru; Tomaki, Kenji; Oosawa, Tetsuo; and Murata, Michihiro, 4,692,619, Cl. 250-338.000.
Tomalia, Donald A.; and Hall, Mark J., to Dow Chemical Company, The. Star/comb-branched polyamine. 4,690,985, 9-1-87, Cl. 525-419.000.
Tomalia, Donald A.; and Kirchhoff, Pamela M., to Dow Chemical Company, The. Rod-shaped dendrimer. 4,694,064, 9-15-87, Cl. 528-332.000.
Tomalia, Donald A.; and Wilson, Larry R., to Dow Chemical Company, The. Dense star polymers for calibrating/characterizing submicron apertures. 4,713,975, 12-22-87, Cl. 73-865.800.
Tomalla, Gebhard: *See*—
Bebber, Hans J.; Rossner, Heinrich-Otto; and Tomalla, Gebhard, 4,645,899, Cl. 219-121.0PN.
Toman, George M., to Meistergram, Inc. Multi-emblem clamping device. 4,682,551, 7-28-87, Cl. 112-103.000.

Toman, Herbert; and Kopecky, Friedrich. Continuously operable tool for use in production line process. 4,662,066, 5-5-87, Cl. 29-854.000.
Tomar Electronics, Inc.: *See*—
Sikora, Scott T., 4,648,781, Cl. 414-401.000.
Sikora, Scott T., 4,682,081, Cl. 315-219.000.
Sikora, Scott T., 4,701,672, Cl. 315-241.00S.
Tomar, Julius, to Home of Champions, S.A. Baseball or softball. 4,660,830, 4-28-87, Cl. 273-60.00B.
Tomaras, Teddy. Method of adjusting distributor pick-up coil. 4,663,816, 5-12-87, Cl. 29-402.150.
Tomari, Haruo: *See*—
Fujiwara, Kazuo; Tomari, Haruo; and Nakayama, Takenori, 4,664,725, Cl. 148-325.000.
Tomarin, Seymour A., to Tecsyn Canada Limited. Synthetic grass playing field surface. 4,637,942, 1-20-87, Cl. 428-17.000.
Tomase, Joseph P.: *See*—
Chason, Marc K.; Kotecki, Carl A.; Tomase, Joseph P.; Onystok, Michael J.; Ryback, Donald J.; Kinsman, Robert G.; Dworsky, Lawrence N.; Nield, Kenneth J.; and Moore, Steven C., 4,639,631, Cl. 310-344.000.
Chason, Marc K.; Tomase, Joseph P.; and Onystok, Michael J., 4,642,511, Cl. 310-348.000.
Tomaselli, Joe W.: *See*—
Nunley, C. Lynn; and Tomaselli, Joe W., 4,707,961, Cl. 52-408.000.
Tomashauser, Josef: *See*—
Zodrow, Rudolf; and Tomashauser, Josef, 4,692,201, Cl. 156-488.000.
Tomasi, Jean-Pierre, to U.S. Philips Corporation. Digital-to-analogue converter arrangement. 4,642,608, 2-10-87, Cl. 340-347.0DA.
Tomasi, Jean-Pierre, to U.S. Philips Corporation. Aircraft position determining system. 4,668,954, 5-26-87, Cl. 342-387.000.
Tomasi, Jean-Pierre, to U.S. Philips Corporation. Terminal-guidance or position-adjustment system for aircraft using distance and angle measurements. 4,679,047, 7-7-87, Cl. 342-52.000.
Tomasi, Jean-Pierre, to U.S. Philips Corporation. Arrangement for determining the starting instant of the leading edge of a high-frequency pulse. 4,680,722, 7-14-87, Cl. 364-569.000.
Tomasi, Jean-Pierre: *See*—
Riffiod, Michel; and Tomasi, Jean-Pierre, 4,661,818, Cl. 342-172.000.
Tomasi, Philip. Adjustable mechanism for releasably coupling floppy disk to drive spindle. 4,644,428, 2-17-87, Cl. 360-99.000.
Tomasi, Richard L., to Mitel Corporation. Telephone handset detector. 4,672,663, 6-9-87, Cl. 379-388.000.
Tomasic, Nicholas A.: *See*—
Heyne, Carl J.; and Tomasic, Nicholas A., 4,710,739, Cl. 335-174.000.
Tomasovic, Beth A.; and Novack, Robert L., to Bacharach, Inc. Electrochemical gas sensor. 4,639,306, 1-27-87, Cl. 204-432.000.
Tomasovic, Beth A.: *See*—
Novack, Robert L.; and Tomasovic, Beth A., 4,636,294, Cl. 204-432.000.
Tomasovich, Anthony J. Livestock watering device. 4,655,171, 4-7-87, Cl. 119-73.000.
Tomasula, Ronald L. Tube extracting and replacing apparatus. 4,643,247, 2-17-87, Cl. 165-76.000.
Tomaszewski, Walter: *See*—
Yang, James H. C.; and Tomaszewski, Walter, 4,638,532, Cl. 24-462.000.
Tomatis, Stefano, to CMT Costruzioni Meccaniche e Tecnologia S.p.A. Molding and hardening machine for pasta filata cheese. 4,664,613, 5-12-87, Cl. 425-182.000.
Tomatis, Stefano. Cheese hardening machine for pasta filata cheese. 4,679,497, 7-14-87, Cl. 99-455.000.
Tomatsu, Toshiaki; and Shindou, Toshiaki, to NHK Spring Co., Ltd. Locking device for a seat back of a trunk through-seat(sic). 4,667,492, 5-26-87, Cl. 70-261.000.
Tomba, Giuseppe: *See*—
Tomba, Silvano; and Tomba, Giuseppe, 4,645,202, Cl. 272-97.000.
Tomba, Silvano; and Tomba, Giuseppe, to Metalmeccanica Fracasso S.p.A. Pre-skiing exercise implement. 4,645,202, 2-24-87, Cl. 272-97.000.
Tombor nee Szotyori, Agota: *See*—
Matolcsy, Gyorgy; Gimesi, Antal; Pelejtei nee Bauer, Krisztina; Sztatisz, Janisz; Tombor nee Szotyori, Agota; Cserhati, Tibor; Gerlei nee Komaromy, Aniko ; Kardos nee Nikoletti, Mariann; Dukai, Jozsef; Sebok, Dezso; Soptei, Csaba; Nagy, Lajos; and Belai, Ivan, 4,672,112, Cl. 536-46.000.
Tombs, Michael: *See*—
Ciniglio, Alexander J.; and Tombs, Michael, 4,651,916, Cl. 228-37.000.
Tomcanin, William J.: *See*—
Polansky, Jon L.; Rice, Douglas N.; Tomcanin, William J.; and Cribbs, Timothy B., 4,692,216, Cl. 201-1.000.
Tomchany, Michael: *See*—
Long, Harry F.; Misselhorn, Donald J.; and Tomchany, Michael, 4,656,063, Cl. 427-420.000.
Tomcik, Jame D.: *See*—
Adelmann, Harry W.; and Tomcik, Jame D., 4,703,477, Cl. 370-94.000.
Tomcik, James D.: *See*—
Ching, Yau-Chau; Huang, Nian-Chyi; and Tomcik, James D., 4,665,514, Cl. 370-60.000.
Tomcufcik, Andrew S.; Marsico, Joseph W.; Eudy, Nancy H.; and Newman, Howard, to American Cyanamid Company. 10,10-dihydro-10-[(substituted-carbonyl)imino]-10-phenyl-10H-phenoxaphosphines compositions containing same and therapeutic methods of use. 4,689,324, 8-25-87, Cl. 514-89.000.
Tomcufcik, Andrew S.: *See*—
Dusza, John P.; Tomcufcik, Andrew S.; and Albright, Jay D., 4,654,347, Cl. 514-258.000.
Medwid, Jeffrey B.; Torley, Lawrence W.; and Tomcufcik, Andrew S., 4,686,220, Cl. 514-252.000.
Wright, William B., Jr.; Tomcufcik, Andrew S.; and Marsico, Joseph W., Jr., 4,680,293, Cl. 514-243.000.
Wright, William B., Jr.; and Tomcufcik, Andrew S., 4,684,654, Cl. 514-259.000.
Wright, William B., Jr.; and Tomcufcik, Andrew S., 4,710,502, Cl. 514-259.000.
Tomczak, Roman M.; Evans, Alfred J.; Chen, Grant K. R.; and Brinson, Edward P., to Delaware Capital Formation, Inc. Shirring device. 4,683,615, 8-4-87, Cl. 17-1.00R.
Tomczak, Walter F.: *See*—
Black, Randy D.; and Tomczak, Walter F., 4,692,947, Cl. 2-421.000.
Tome, Richard E.: *See*—
Gasparro, Michael R.; and Tome, Richard E., 4,716,012, Cl. 376-352.000.
Tomei Sangyo Kabushiki Kaisha: *See*—
Yanagihara, Yasukichi; and Kato, Takuo, 4,699,946, Cl. 524-539.000.
Tomek, Lawrence S. Protective cover for electrical outlet. 4,660,912, 4-28-87, Cl. 339-44.00R.
Tomes, Herbert, Jr. Wire identifying sleeve applicator. 4,682,411, 7-28-87, Cl. 29-745.000.
Tometsko, Andrew M.: *See*—
Chanda, Subir; Riedhammer, Thomas M.; and Tometsko, Andrew M., 4,715,899, Cl. 134-26.000.
Tomforde, Johann, to Daimler-Benz Aktiengesellschaft. Anti-glare device for motor vehicles. 4,697,843, 10-6-87, Cl. 296-97.00G.
Tomi Machinery Manufacturing Co., Ltd.: *See*—
Shinmoto, Jitsumi; and Taguchi, Takeo, 4,655,988, Cl. 264-566.000.
Taguchi, Takeo, 4,650,407, Cl. 425-72.00R.
Tomibe, Shinji; and Murasaki, Norio, to Nihon Sanmo Dyeing Co., Ltd. Electrically conducting material and process of preparing same. 4,670,189, 6-2-87, Cl. 252-514.000.
Tomibe, Shinji; Gomibuchi, Reizo; and Takahashi, Kiyofumi, to Nihon Sanmo Dyeing Co., Ltd., JPX. Method of producing an electrically conductive polymeric material with adsorbed metal sulfide and product. 4,681,820, 7-21-87, Cl. 428-698.000.
Tomibe, Shinji; Gomibuchi, Reizo; Takahashi, Kiyofumi; and Kato, Noboru, to Nihon Sanmo Dyeing Co., Ltd. Electrically conducting material and method of preparing same. 4,690,854, 9-1-87, Cl. 428-195.000.
Tomic, Dobrivoje. Pharmaceutical compositions for the treatment of diabetes and of hepatic diseases and malfunctions. 4,678,670, 7-7-87, Cl. 424-127.000.
Tomida, Katsu A., to Ever Elegant Marketing Co., Ltd. Lateral sliding sash. 4,669,219, 6-2-87, Cl. 49-130.000.
Tomida, Yasutaka, to Brother Kogyo Kabushiki Kaisha. Printing apparatus with a thermal print head. 4,695,173, 9-22-87, Cl. 400-120.000.
Tomida, Yasutaka: *See*—
Yamamoto, Takemi; and Tomida, Yasutaka, 4,639,152, Cl. 400-120.000.
Tomida, Yoshinori: *See*—
Miyazaki, Toshihiko; Sugawa, Etsuko; Tomida, Yoshinori; Munakata, Hirohide; Nishimura, Yukuo; and Eguchi, Ken, 4,674,436, Cl. 118-402.000.
Munakata, Hirohide; Tomida, Yoshinori; Haruta, Masahiro; Hirai, Yutaka; Nishimura, Yukuo; and Hamamoto, Takashi, 4,634,628, Cl. 430-325.000.
Saito, Kenji; Eguchi, Ken; Kawada, Haruki; Tomida, Yoshinori; Nishimura, Yukuo; and Nakagiri, Takashi, 4,682,897, Cl. 374-45.000.
Tomidokoro, Kanji, to Kamamura Photographic Co., Ltd. Film holder for putting marks on film. 4,634,249, 1-6-87, Cl. 354-108.000.
Tomidokoro, Kanji: *See*—
Komamura, Toshiyuki; and Tomidokoro, Kanji, 4,653,888, Cl. 354-276.000.
Tomie, Takashi: *See*—
Kadokura, Sadao; Honjo, Kazuhiko; Tomie, Takashi; and Naoe, Masahiko, 4,666,788, Cl. 428-611.000.
Tomihashi, Nobuyuki: *See*—
Ohmori, Akira; Tomihashi, Nobuyuki; and Shimizu, Yoshiki, 4,634,754, Cl. 526-242.000.
Ohmori, Akira; Tomihashi, Nobuyuki; Inukai, Hiroshi; and Nakai, Kazuhiro, 4,638,041, Cl. 526-247.000.
Ohmori, Akira; Tomihashi, Nobuyuki; Inukai, Hiroshi; and Izutani, Naoaki, 4,655,807, Cl. 55-522.000.
Ohmori, Akira; and Tomihashi, Nobuyuki, 4,665,144, Cl. 526-245.000.
Tomii, Kaoru; and Hamada, Kiyoshi, to Matsushita Electric Industrial Co., Ltd. Method of driving a flat type of cathode ray tube to provide uniformity of electron beam emission characteristics for a plurality of beam sources. 4,694,225, 9-15-87, Cl. 315-366.000.
Tomii, Kaoru; Miyama, Hiroshi; Kawauchi, Yoshikazu; and Nishida, Jun, to Matsushita Electric Industrial Co., Ltd. Flat type image display tube and display device using the same. 4,703,231, 10-27-87, Cl. 315-366.000.
Tomii, Uzo: *See*—
Okui, Tokujiro, 4,702,788, Cl. 156-252.000.

Tomii, Yuji: *See*—
Morimoto, Teruyo; Sano, Yumiko; Nimura, Eiji; Tomii, Yuji; and Maeda, Tatsuo, 4,701,389, Cl. 430-110.000.

Tomikashi, Minoru: *See*—
Suzuki, Tadashi; Tomikashi, Minoru; Futami, Toru; and Sakagami, Atsushi, 4,706,245, Cl. 370-85.000.

Tomikawa, Inao: *See*—
Watanabe, Takashi; Tsuda, Nobuo; and Tomikawa, Inao, 4,701,613, Cl. 250-227.000.

Tomikawa, Naohiro, to Mitsubishi Denki Kabushiki Kaisha. Digital signal transmission system, 4,665,533, 5-12-87, Cl. 375-106.000.

Tomikawa, Shinichiro: *See*—
Yamagata, Taizo; Uchikawa, Takaaki; Yamamoto, Shinichi; Tomikawa, Shinichiro; Ogasahara, Yoshio; and Sukagawa, Masaru, 4,694,736, Cl. 98-31.600.

Tomimori, Kiyoshi: *See*—
Soeda, Kazuhiko; Mori, Masakazu; Nishikawa, Tsutomu; and Tomimori, Kiyoshi, 4,710,022, Cl. 356-73.100.
Yamashita, Mitsuo; Tomimori, Kiyoshi; and Egawa, Jiro, 4,669,717, Cl. 271-186.000.

Tomimoto, Masami: *See*—
Okamura, Masayoshi; Matsuda, Kiyoshi; Yamada, Hiromichi; Umeda, Hiromi; and Tomimoto, Masami, 4,673,655, Cl. 436-75.000.

Tominaga, Akira; and Nishida, Reizirо, to Kansai Paint Co., Ltd. [Poly]imidazoline adduct for electrocoating, 4,710,561, 12-1-87, Cl. 528-111.000.

Tominaga, Chikara: *See*—
Tanino, Katsumi; Kiuchi, Norihiro; Tominaga, Chikara; Itoh, Eiji; Ogino, Kiyoshi; Yahagi, Masataka; and Sakamoto, Masaru, 4,656,455, Cl. 338-35.000.

Tominaga, Haruo; Takayama, Teruyuki; Ogura, Yoshio; and Yamaguchi, Tetsuo, to Fujikura Ltd. Electrode wire for use in electric discharge machining and process for preparing same, 4,686,153, 8-11-87, Cl. 428-610.000.

Tominaga, Hiroshi, to Fuji Electric Co., Ltd. Human body supporting device, 4,694,521, 9-22-87, Cl. 5-453.000.

Tominaga, Ichiro; and Sasaki, Teruo, to Simitomo Rubber Industries, Ltd. Iron type golf club head, 4,687,205, 8-18-87, Cl. 273-169.000.

Tominaga, Kazutoshi, to Kabushiki Kaisha Tominaga Jyushi Kogyosho. Gymnastic device for small pet animals, 4,677,938, 7-7-87, Cl. 119-29.000.

Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, to Yamaha Hatsudoki Kabushiki Kaisha. Overhead cam shaft type V-engine cylinder block, 4,633,826, 1-6-87, Cl. 123-90.310.

Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, to Yamaha Hatsudoki Kabushiki Kaisha. V type motorcycle engine and transmission, 4,637,354, 1-20-87, Cl. 123-55.0VF.

Tominaga, Satoshi: *See*—
Maegawa, Toshiyuki; and Tominaga, Satoshi, 4,647,911, Cl. 340-365.00R.

Tominaga, Shigetake: *See*—
Suzuki, Takeshi; Tominaga, Shigetake; and Nakai, Masanori, 4,680,331, Cl. 524-269.000.

Tominaga, Shinji: *See*—
Inoue, Norihiro; Tominaga, Shinji; Kashima, Masataka; and Nakamura, Ikushi, 4,645,325, Cl. 354-484.000.
Taniguchi, Nobuyuki; Tominaga, Shinji; Yamamoto, Kouji; Ootsuka, Hiroshi; and Ueda, Hiroshi, 4,662,736, Cl. 354-412.000.

Tominaga, Yoshiharu, to Mitsubishi Denki Kabushiki Kaisha. Tandem rolling control system, 4,706,479, 11-17-87, Cl. 72-8.000.

Tominaga, Yoshio: *See*—
Iwai, Mieko; Tominaga, Yoshio; and Nakanishi, Katsumi, 4,665,029, Cl. 435-198.000.

Tominari, Kenichi; Inoue, Hiroshi; and Sakai, Masayuki, to Mitsui Petrochemical Industries, Ltd. Linear ethylene copolymer, 4,668,752, 5-26-87, Cl. 526-348.200.

Tominari, Noboru, to Dynavector, Inc. Audio signal amplifier for an electromagnetic phono cartridge, 4,644,517, 2-17-87, Cl. 369-134.000.

Tomioka, Hidehiro: *See*—
Kamiya, Fumio; Nodera, Hisatoshi; Ueda, Kenji; Imazu, Keinosuke; and Tomioka, Hidehiro, 4,644,298, Cl. 331-65.000.

Tomioka, Hiroki; Yano, Toshihiko; Takeda, Hisami; and Hirata, Naonori, to Sumitomo Chemical Company, Limited. Bromodichloroimidazole insecticide, 4,668,693, 5-26-87, Cl. 514-399.000.

Tomioka, Hiroki; Ooishi, Tadashi; Takahashi, Junya; Sasaki, Mitsuru; and Hirata, Naonori, to Sumitomo Chemical Company, Limited. Soil disease-controlling imides, 4,709,052, 11-24-87, Cl. 548-548.000.

Tomioka, Hiroki: *See*—
Yano, Toshihiko; Takada, Yoji; Tomioka, Hiroki; and Hirata, Naonori, 4,689,340, Cl. 514-399.000.

Tomioka, Hiroyuki; Nakata, Mitsuo; Kusakawa, Nobuhiro; and Torigoe, Kaname, to Shinko Kosen Kogyo Kabushiki Kaisha. Apparatus for adjusting lay of wire rope, 4,642,979, 2-17-87, Cl. 57-264.000.

Tomioka, Hiroyuki: *See*—
Masumoto, Tsuyoshi; Inoue, Akihisa; and Tomioka, Hiroyuki, 4,642,145, Cl. 148-336.000.
Masumoto, Tsuyoshi; Inoue, Akihisa; and Tomioka, Hiroyuki, 4,655,857, Cl. 148-423.000.
Ogasawara, Isamu; Maekawa, Kiyotsugu; Tomioka, Hiroyuki; and Furukawa, Shinji, 4,657,604, Cl. 148-304.000.
Ogasawara, Isamu; Maekawa, Kiyotsugu; Tomioka, Hiroyuki; and Furukawa, Shinji, 4,657,605, Cl. 148-304.000.

Tomioka, Hisatsugu; Waki, Tazuo; and Sugaya, Hiroyuki, to Lonseal Corporation. Impeller type descent slowing device, 4,655,327, 4-7-87, Cl. 188-290.000.

Tomioka, Hisatsugu; Waki, Tatsuo; and Miyata, Yoshiki, to Lonseal Corporation. Apparatus for installing escape device for slowly lowering a body, 4,709,783, 12-1-87, Cl. 182-8.000.

Tomioka, Kentaro: *See*—
Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,647,600, Cl. 523-116.000.
Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,652,593, Cl. 523-116.000.
Kondo, Kenji; Katsuyama, Shigeru; Akahane, Shoji; and Tomioka, Kentaro, 4,678,436, Cl. 433-228.100.
Kyotani, Ikuo; and Tomioka, Kentaro, 4,664,627, Cl. 433-72.000.
Yoshida, Bunsaku; and Tomioka, Kentaro, 4,713,403, Cl. 523-115.000.

Tomioka, Kunio: *See*—
Miki, Toshiyuki; Tomioka, Kunio; Sakurai, Terushige; and Nakajima, Masao, 4,653,367, Cl. 83-156.000.
Miki, Toshiyuki; Tomioka, Kunio; Nakajima, Masao; and Sakurai, Terushige, 4,681,210, Cl. 198-468.200.

Tomioka, Masao; Okada, Takashi; and Mogi, Takao, to Sony Corporation. Method and apparatus for recording scrambled television signals, 4,635,112, 1-6-87, Cl. 358-122.000.

Tomiro, Arai: *See*—
Sakuichi, Sakakibara; Yoshiaki, Tokuda; Tamio, Nagai; Yorinobu, Takino; and Tomiro, Arai, 4,685,810, Cl. 366-150.000.

Tomisato, Masahiro: *See*—
Fujishima, Kazuyasu; Shimotori, Kazuhiro; Ozaki, Hideyuki; Miyatake, Hideshi; and Tomisato, Masahiro, 4,658,379, Cl. 365-200.000.

Tomisawa, Naoki; Furuhashi, Shoji; and Otani, Seiichi, to Japan Electronic Control Systems Co., Ltd. Apparatus for learning control of air-fuel ratio of air-fuel mixture in electronically controlled fuel injection type internal combustion engine, 4,655,188, 4-7-87, Cl. 123-489.000.

Tomisawa, Naoki, to Japan Electronic Control Systems, Co., Ltd. Learning and control apparatus for electronically controlled internal combustion engine, 4,715,344, 12-29-87, Cl. 123-489.000.

Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Counter circuit operable in synchronism with frame or digital data signal, 4,641,326, 2-3-87, Cl. 375-108.000.

Tomisawa, Norio, to Nippon Gakki Seizo Kabushiki Kaisha. Subcode signal reading circuit in an optical type disc player, 4,682,317, 7-21-87, Cl. 369-59.000.

Tomisawa, Norio; Kamiya, Shingo; and Aoshima, Shinji, to Nippon Gakki Seizo Kabushiki Kaisha. Position control device for an optical reproduction system in an optical type disc reproduction device, 4,694,441, 9-15-87, Cl. 369-32.000.

Tomisawa, Norio: *See*—
Narasawa, Sadayuki; and Tomisawa, Norio, 4,646,303, Cl. 371-38.000.
Narusawa, Sadayuki; and Tomisawa, Norio, 4,707,805, Cl. 364-900.000.

Tomisawa, Yutaka: *See*—
Yamaki, Bunshiro; Kikuchi, Sadatake; and Tomisawa, Yutaka, 4,680,569, Cl. 338-42.000.

Tomita, Akira: *See*—
Haramaki, Takashi; Shiota, Katsuhiko; Kokura, Satoshi; Funamoto, Takao; and Tomita, Akira, 4,645,119, Cl. 228-183.000.

Tomita, Haruo; Okamoto, Yasuo; and Yonezawa, Kazuya, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Glycidyl compound, 4,709,062, 11-24-87, Cl. 549-553.000.

Tomita, Hideo: *See*—
Ohno, Satoshi; Ichida, Koji; Tomita, Hideo; and Matsuzaki, Atsushi, 4,668,977, Cl. 358-60.000.

Tomita, Hiroo, to Fuji Electric Co., Ltd. Reverse bias current supply system for a switching device, 4,642,483, 2-10-87, Cl. 307-300.000.

Tomita, Hiroshi, to Sanyo Electric Co., Ltd. Paper feed apparatus, 4,647,030, 3-3-87, Cl. 271-22.000.

Tomita, Hiroshi: *See*—
Takeuchi, Toshio; Tomita, Hiroshi; and Ogasawara, Takio, 4,633,834, Cl. 123-424.000.

Tomita, Hiroyuki: *See*—
Ninomiya, Hisakazu; Tomita, Hiroyuki; Mochizuki, Jyun; and Nakagawa, Kazuyuki, 4,656,401, Cl. 318-329.000.

Tomita, Itizo; and Okura, Eiji, to Diesel Kiki Co., Ltd. Heat exchanger for combustion heater, 4,657,074, 4-14-87, Cl. 165-179.000.

Tomita, Kazuo: *See*—
Murakami, Tadashi; and Tomita, Kazuo, 4,634,774, Cl. 548-243.000.
Yoshinaka, Tadaaki; Inoue, Takao; and Tomita, Kazuo, 4,714,965, Cl. 358-320.000.

Tomita, Kazuyuki; and Tanno, Masuo, to Matsushita Electric Industrial Co., Ltd. Dry-etching method, 4,678,539, 7-7-87, Cl. 156-643.000.

Tomita, Kenichi: *See*—
Hirama, Shinichi; Nishiyama, Toshio; Ohta, Youichi; Uzuka, Makoto; Tomita, Kenichi; Nakajima, Keisuke; and Furuse, Kazumaro, 4,713,397, Cl. 514-690.000.

Tomita, Koji: *See*—
Konishi, Masataka; Tomita, Koji; Oka, Masahisa; and Numata, Ken-ichi, 4,692,510, Cl. 530-317.000.
Saitoh, Kyoichiro; Konishi, Masataka; and Tomita, Koji, 4,690,926, Cl. 514-269.000.

Tomita, Kuniyuki; Shimoji, Yasuo; Kumakura, Seiji; Koike, Hiroyuki; Iwata, Nobuyoshi; and Morisawa, Yasuhiro, to Sankyo Company, Limited. Fused 5 ring heterocyclic compounds, their preparation,

and their anti-arrhythmic and diuretic use. 4,716,162, 12-29-87, Cl. 514-234.000.

Tomita, Masahiro: *See*—
Sakakibara, Yasuyuki; Abe, Seiko; Tomita, Masahiro; Yorita, Hiroshi; Tanaka, Takeshi; and Igashira, Toshihiko, 4,705,003, Cl. 123-449.000.

Tomita, Masao, to Kinki Denki Co., Ltd. Impulse rocket propellant. 4,640,794, 2-3-87, Cl. 252-194.000.

Tomita, Masao; and Hashima, Akio, to Matsushita Electric Industrial Co., Ltd. Digital noise reducing apparatus for a video signal processing recording reproducing apparatus. 4,677,487, 6-30-87, Cl. 358-167.000.

Tomita, Masao, to Matsushita Electric Industrial Co., Ltd. Method of recording and reproducing video and audio signals on a magnetic tape. 4,679,097, 7-7-87, Cl. 358-328.000.

Tomita, Masao; Hashima, Akio; Ohta, Haruo; and Matsuo, Tadaaki, to Matsushita Electric Industrial Co., Ltd. Dropout compensating apparatus using a digital delay circuit. 4,686,583, 8-11-87, Cl. 358-336.000.

Tomita, Masao; and Hashima, Akio, to Matsushita Electric Industrial Co., Ltd. Video signal processing apparatus for video tape recorders. 4,698,694, 10-6-87, Cl. 358-326.000.

Tomita, Masatoshi: *See*—
Kadono, Masaru; Nago, Kumio; Yamamoto, Tatsushi; Muramatsu, Tersuro; Tsuchimoto, Shuuhei; Yoshikawa, Mitsuhiko; and Tomita, Masatoshi, 4,702,935, Cl. 427-42.000.

Tomita, Norizou: *See*—
Masuzawa, Tokihiko; Kageyama, Yoshitaka; and Tomita, Norizou, 4,642,736, Cl. 362-31.000.

Tomita Pharmaceutical Corp., Ltd.: *See*—
Suzuki, Takeshi, 4,655,941, Cl. 252-1.000.

Tomita, Satoru; and Adachi, Mitsunori, to Mitsubishi Denki Kabushiki Kaisha. Image pickup apparatus with range specification of displayed image. 4,712,142, 12-8-87, Cl. 358-285.000.

Tomita, Satoru: *See*—
Adachi, Mitsunori; and Tomita, Satoru, 4,707,737, Cl. 358-133.000.
Ikeda, Kunihiko; Suzuki, Shigeru; Yokota, Takashi; Shimura, Akira; Kodama, Yutaka; Yamazaki, Shigeru; Niro, Masaichi; and Tomita, Satoru, 4,657,372, Cl. 355-3.00R.

Tomita, Seiji, to Tokyo Shibaura Denki Kabushiki Kaisha. Tape head apparatus for a cassette tape recorder. 4,636,895, 1-13-87, Cl. 360-105.000.

Tomita, Seiji; Morinaga, Kaoru; and Kotoda, Yoshihiro, to Tokyo Shibaura Denki Kabushiki Kaisha. Cassette tape recorder. 4,646,187, 2-24-87, Cl. 360-130.210.

Tomita, Seiji, to Tokyo Shibaura Denki Kabushiki Kaisha. Tape player. 4,669,006, 5-26-87, Cl. 360-93.000.

Tomita, Seiji, to Kabushiki Kaisha Toshiba. Head apparatus for a cassette tape recorder. 4,669,012, 5-26-87, Cl. 360-105.000.

Tomita, Seisuke; and Egashira, Yoshinori, to Bridgestone Corporation. Thread-wound golf ball. 4,696,475, 9-29-87, Cl. 273-227.000.

Tomita, Seisuke; and Hashimoto, Takatsugu, to Bridgestone Corporation. Process for molding and vulcanizing rubber products. 4,710,541, 12-1-87, Cl. 525-104.000.

Tomita, Seisuke: *See*—
Hashimoto, Takatsugu; Maehara, Akihiro; Tomita, Seisuke; Funahashi, Yuichi; Watanabe, Junichiro; Sugiura, Kazuo; and Matsumoto, Hironori, 4,714,734, Cl. 524-496.000.
Kakiuchi, Shinichi; Saito, Tasuku; and Tomita, Seisuke, 4,683,257, Cl. 524-432.000.

Tomita, Shozo: *See*—
Yamaguchi, Ketki; and Tomita, Shozo, 4,709,271, Cl. 358-244.000.

Tomita, Takao; Matsuura, Masaaki; Hirano, Makoto; Handa, Masao; and Shiozaki, Tomoo, to Honda Giken Kogyo Kabushiki Kaisha. Four stroke internal combustion engine. 4,671,228, 6-9-87, Cl. 123-193.00P.

Tomita, Takao; and Kawai, Noriaki, to Honda Giken Kogyo Kabushiki Kaisha. Noise reduction in gear transmission. 4,693,133, 9-15-87, Cl. 74-467.000.

Tomita, Tomoya; Hiramoto, Sotozi; Okubo, Takesi; Matsuo, Kuniyuki; Ashihara, Hiromoto; Nakamura, Mitsuo; Takahashi, Tsutomu; Fujino, Motoaki; and Hosaka, Kenji, to Hitachi, Ltd. Apparatus for automatically inserting electronic part. 4,637,134, 1-20-87, Cl. 29-741.000.

Tomita, Toshio: *See*—
Aoyagi, Yoshiaki; Okubo, Takashi; Tomita, Toshio; Nishida, Hiroshi; and Enomoto, Hiroshi, 4,642,307, Cl. 514-252.000.

Tomita, Toyofumi, to Kabushiki Kaisha Toshiba. Electromagnetic flow meter. 4,644,799, 2-24-87, Cl. 73-861.120.

Tomita, Toyofumi, to Kabushiki Kaisha Toshiba. Electromagnetic flowmeter. 4,658,653, 4-21-87, Cl. 73-861.120.

Tomita, Yasuharu, to NEC Corporation. Coding circuit for facsimile apparatus. 4,654,719, 3-31-87, Cl. 358-261.000.

Tomita, Yasuo; Ogura, Shigetaro; and Matsumoto, Kazuya, to Canon Kabushiki Kaisha. Method of making an optical coupler device utilizing volatile liquid to achieve optical contact. 4,637,684, 1-20-87, Cl. 350-96.190.

Tomita, Yasuo, to Canon Kabushiki Kaisha. Magneto-optical recording medium. 4,639,816, 1-27-87, Cl. 360-131.000.

Tomita, Yasuo, to Canon Kabushiki Kaisha. Magneto-optical recording medium having alternately-layered high and low refractive index layers. 4,649,451, 3-10-87, Cl. 360-131.000.

Tomita, Yasuo: *See*—
Iwasaki, Takashi; Tomita, Yasuo; and Hayashi, Tsunekazu, 4,690,839, Cl. 427-366.000.
Yoshino, Toshihiko; and Tomita, Yasuo, 4,660,187, Cl. 369-13.000.

Tomita, Yoshifumi, to Hitachi, Ltd. Method of manufacturing fluorescent screens of color picture tubes. 4,681,824, 7-21-87, Cl. 430-24.000.

Tomita, Yoshikazu, to Kabushiki Kaisha Komatsu Seisakusho. Method for cutting uncoiled web. 4,656,857, 4-14-87, Cl. 72-131.000.

Tomita, Yuichi: *See*—
Izutani, Toshiyuki; Tomita, Yuichi; and Yokoyama, Hiroshi, 4,658,257, Cl. 342-372.000.
Kiuchi, Eiichi; Tomita, Yuichi; and Izutani, Toshiyuki, 4,654,665, Cl. 342-160.000.

Tomita, Yukio; Wakabayashi, Takayuki; Matsuda, Mitsunobu; Shibamoto, Nobuji; and Yamashiro, Yoshihiro, to Hitachi Zosen Corporation. Apparatus for feeding waste tire chips. 4,645,065, 2-24-87, Cl. 198-573.000.

Tomitaka, Kichinojyo: *See*—
Kanesaki, Tateo; Utsumi, Shigeo; and Tomitaka, Kichinojyo, 4,680,217, Cl. 428-141.000.
Utsumi, Shigeo; Tomitaka, Kichinojyo; and Fukuda, Yujiro, 4,677,188, Cl. 528-272.000.

Tomite, Toshio: *See*—
Abukawa, Toshimi; Tahara, Kazuo; Takahashi, Noriyoshi; and Tomite, Toshio, 4,703,210, Cl. 310-154.000.

Tomite, Tosio; Tani, Tatsuhiro; and Kobayashi, Hidemitsu, to Hitachi, Ltd. Magnetic cover member for magnetic poles of DC motor. 4,707,630, 11-17-87, Cl. 310-154.000.

Tomite, Tosio: *See*—
Abukawa, Toshimi; Tahara, Kazuo; Takahashi, Noriyoshi; Tajima, Fumio; and Tomite, Tosio, 4,639,625, Cl. 310-154.000.
Tani, Tatsuhiro; Nagasawa, Hiroyuki; Tomite, Tosio; Tsubota, Kiyomasa; and Takahashi, Akira, 4,644,201, Cl. 310-51.000.

Tomiuchi, Shinichi: *See*—
Akasaka, Tamotsu; Tomiuchi, Shinichi; Sato, Kazuo; Matsui, Kenichi; and Sawada, Yasushi, 4,673,543, Cl. 264-82.000.

Tomiyama, Hiroshi: *See*—
Douno, Shugo; and Tomiyama, Hiroshi, 4,686,357, Cl. 235-379.000.

Tomiyori, Takashi; and Senoo, Takahiro, to Mitsuboshi Belting Ltd. Power transmission apparatus. 4,674,994, 6-23-87, Cl. 474-24.000.

Tomiyoshi, Kazutoshi: *See*—
Itoh, Kunio; Shiobara, Toshio; Futatsumori, Koji; Tomiyoshi, Kazutoshi; and Shimizu, Hisashi, 4,701,482, Cl. 523-435.000.
Shiobara, Toshio; and Tomiyoshi, Kazutoshi, 4,701,479, Cl. 523-220.000.

Tomizawa, Akimori, to Clarion Co., Ltd. Pay television system. 4,688,248, 8-18-87, Cl. 380-20.000.

Tomizawa, Fumio, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Shroud for arc furnace. 4,638,487, 1-20-87, Cl. 373-9.000.

Tomizawa, Fumio; Tsuchita, Kenji; and Sugiyama, Sakae, to Hitachi, Ltd. Trackless scanner. 4,655,085, 4-7-87, Cl. 73-638.000.

Tomizawa, Fumio; Mizuno, Katsuhiro; Ozaki, Norihiko; and Tsuchita, Kenji, to Hitachi, Ltd. Radiation resistant color television camera. 4,668,976, 5-26-87, Cl. 358-27.000.

Tomizawa, Fumio: *See*—
Nanjo, Toshio; and Tomizawa, Fumio, 4,694,465, Cl. 373-81.000.

Tomizawa, Hiroshi; Okada, Masakazu; Yasumoto, Seiichi; Mizokawa, Sadao; Fushimi, Hitoshi; Onuki, Ken; Takahashi, Masahiro; and Hamada, Takuji, to Hitachi, Ltd. Method of detecting recovery from fault in a data transmission system which effects loopback control. 4,704,714, 11-3-87, Cl. 370-15.000.

Tomizawa, Kenji; Shimanuki, Yasushi; and Sassa, Koichi, to Tomizawa, Kenji; Shimanuki, Yasushi; and Research Development Corporation of Japan. Method for growing single crystals of dissociative compounds. 4,664,742, 5-12-87, Cl. 156-607.000.

Tomizawa, Kenji; Sassa, Koichi; and Shimanuki, Yasushi, to Research Development Corporation of Japan; and Mitsubishi Metal Corporation. Apparatus for growing single crystals of dissociative compounds. 4,704,257, 11-3-87, Cl. 422-249.000.

Tomizawa, Tetsuo: *See*—
Inoue, Yoshio; Arai, Masatoshi; Inoue, Takeo; Yaginuma, Atushi; and Tomizawa, Tetsuo, 4,675,365, Cl. 525-408.000.

Tomizuka, Mitsuo, to Ricoh Company, Ltd. Collapsible overhead projector. 4,696,557, 9-29-87, Cl. 353-66.000.

Tomka, Ivan: *See*—
Wittwer, Fritz; and Tomka, Ivan, 4,655,840, Cl. 106-126.000.
Wittwer, Fritz; and Tomka, Ivan, 4,673,438, Cl. 106-126.000.

Tomkiewicz, Yaffa: *See*—
Clarke, Thomas C.; Lu, Neng H.; Tomkiewicz, Yaffa; and Tong, Ho M., 4,690,836, Cl. 427-299.000.
Donelon, John J.; Tomkiewicz, Yaffa; Wassick, Thomas A.; and Yeh, James T., 4,684,437, Cl. 156-643.000.

Tomkin, Frederick J. Retaining means. 4,679,276, 7-14-87, Cl. 15-250.420.

Tomkins, David A.; Tait, William S.; and Duda, Donald J., to S. C. Johnson & Son, Inc. Corroston resistant insecticial composition. 4,668,507, 5-26-87, Cl. 424-45.000.

Tomkins, Keith A.: *See*—
Edwards, Wayne; Nation, Richard V.; and Tomkins, Keith A., 4,712,957, Cl. 411-82.000.

Tomkinson, Jeremy D.: *See*—
Brophy, John H.; Font Freide, Josephus J. H. M.; and Tomkinson, Jeremy D., 4,652,688, Cl. 585-408.000.
Brophy, John H.; Font Freide, Josephus J. H. J.; and Tomkinson, Jeremy D., 4,665,270, Cl. 585-642.000.

Tomkinson, John G.: *See*—
Brauner, William E.; Tomkinson, John G.; and Clausen, Eivind, 4,655,342, Cl. 206-45.180.
Northrup, Allan R.; and Tomkinson, John G., 4,640,416, Cl. 206-425.000.

Tomkinson, Philip. Bicycle design. 4,647,060, 3-3-87, Cl. 280-281.0LP.
Tomlin, Jerry B.; and Loup, Ronald L., to Koomey, Inc. Fail-safe fluid piloted valve positioner with hydromechanical position lock. 4,699,355, 10-13-87, Cl. 251-62.000.
Tomlinson, Barnard E. Disposable utensil. 4,635,843, 1-13-87, Cl. 229-52.00B.
Tomlinson, Christopher J.: *See*—
Green, Howard H.; and Tomlinson, Christopher J., 4,646,231, Cl. 364-200.000
Tomlinson, Dick; and Von Quilich, Michael. Weight vest. 4,658,442, 4-21-87, Cl. 2-94.000.
Tomlinson, Donald C.: *See*—
Nation, James H.; and Tomlinson, Donald C., 4,633,766, Cl. 98-1.000.
Tomlinson, Ernest V. Apparatus for directing a beam of light. 4,663,698, 5-5-87, Cl. 362-272.000.
Tomlinson, James E., to Anderson Strathclyde PLC. Line pans. 4,637,510, 1-20-87, Cl. 198-735.000.
Tomlinson, Mack B., to Carfel Inc. Manual winch with drum release and handle storage. 4,703,917, 11-3-87, Cl. 254-369.000.
Tomlinson, Martin; and Bramwell, Jonathan R., to Devon County Council, a part interest. Data communication method and apparatus. 4,700,363, 10-13-87, Cl. 375-37.000.
Tomlinson, Michael A.: *See*—
Davenport, Raymond J.; and Tomlinson, Michael A., 4,668,941, Cl. 340-550.000.
Tomlinson, Peter N. Tool component. 4,655,508, 4-7-87, Cl. 299-79.000.
Tomlinson, Peter N.: *See*—
Tank, Klaus; and Tomlinson, Peter N., 4,679,858, Cl. 299-91.000.
Tomlinson, Robert K., to Monier Limited. Turbine mixer. 4,655,602, 4-7-87, Cl. 366-56.000.
Tomlinson, Ronald S.: *See*—
Heffernan, Edward J.; and Tomlinson, Ronald S., 4,702,225, Cl. 126-116.00A.
Tomlonovic, Vincent J.: *See*—
Johnson, James A.; Schulz, Richard; and Tomlonovic, Vincent J., 4,693,331, Cl. 180-155.000.
Tomm, Dagwin; and Hartig, Franz, to Fichtel & Sachs AG. Clutch disc. 4,643,288, 2-17-87, Cl. 192-106.200.
Tomm, Dagwin: *See*—
Caspar, Manfred; Hartig, Franz; and Tomm, Dagwin, 4,655,336, Cl. 192-106.200.
Hartig, Franz; Fischer, Matthias; and Tomm, Dagwin, 4,640,402, Cl. 192-106.200.
Rostin, Gunther; Tomm, Dagwin; and Hartig, Franz, 4,715,485, Cl. 192-106.200.
Tomma, Kauko, to Oy Wartsila AB. Winder. 4,651,942, 3-24-87, Cl. 242-65.000.
Tomma, Kauko, to Oy Wartsila AB. Method for producing a concrete-filled steel body for suppressing vibrations. 4,691,488, 9-8-87, Cl. 52-223.00R.
Tommis, Norman; and Cooper, James A., to AE PLC. Reinforcement of articles of cast metal or metal alloy. 4,715,422, 12-29-87, Cl. 164-97.000.
Tommis, Norman: *See*—
Day, Roger A.; Tommis, Norman; and Baker, Andrew R., 4,708,104, Cl. 123-193.00P.
Tomo, Daniel; and Denbo, Robert E., to National Distillers and Chemical Corporation. Apparatus and process for producing polyolefin film. 4,671,918, 6-9-87, Cl. 264-564.000.
Tomobe, Norio: *See*—
Kobayashi, Hideo; and Tomobe, Norio, 4,648,374, Cl. 123-587.000.
Watabe, Akira; Tomobe, Norio; and Kobayashi, Hideo, 4,660,533, Cl. 123-588.000.
Tomochika, Tokitaka: *See*—
Kurose, Yoshio; and Tomochika, Tokitaka, 4,689,747, Cl. 364-449.000.
Tomoda, Hideo: *See*—
Nakamura, Shinichi; Tomoda, Hideo; and Kochi, Nobuo, 4,676,004, Cl. 33-507.000.
Tomoda, Hiroaki: *See*—
Nishikawa, Makoto; Inada, Takeo; Tomoda, Hiroaki; Naruto, Eiro; Oki, Kazuyuki; and Hirano, Kouichi, 4,655,061, Cl. 70-271.000.
Tomoda, Masayasu: *See*—
Kawachi, Shoji; Tomoda, Masayasu; Ueta, Yutaka; and Oka, Masahiko, 4,670,328, Cl. 428-260.000.
Oka, Masahiko; Ueta, Yutaka; Kano, Hideo; Tomoda, Masayasu; and Kawachi, Shoji, 4,696,989, Cl. 526-254.000.
Tomoda, Naohisa: *See*—
Sakauchi, Takashi; Mohri, Fumihiko; Tomoda, Naohisa; and Nakatsuka, Satoshi, 4,702,852, Cl. 252-62.540.
Tomoda, Toshimasa: *See*—
Wakayama, Naoaki; Yamagishi, Hideshi; Fukakusa, Shinji; and Tomoda, Toshimasa, 4,682,036, Cl. 250-374.000.
Tomoe, Tetsuro: *See*—
Katsuragi, Koji; Ozaki, Hirofumi; Kawahara, Yoshihiro; Matsumoto, Hideki; Tomoe, Tetsuro; and Kobayashi, Kazuhiro, 4,687,357, Cl. 400-208.000.
Tomofuji, Yoshiaki: *See*—
Miyamori, Nobuyuki; Tomofuji, Yoshiaki; Izawa, Kiyosato; and Tsuchida, Youichi, 4,711,977, Cl. 178-18.000.
Tomohiro, Mohri. Automatic hair curler. 4,671,304, 6-9-87, Cl. 132-42.00A.
Tomohiro, Susumu; Arai, Yuko; and Mineura, Kazuyuki, to Kyowa Hakko Kogyo Co., Ltd. Process and microorganisms for producing mitomycin A by fermentation. 4,673,645, 6-16-87, Cl. 435-119.000.
Tomohisa, Kunio; Maeda, Kiyoshi; and Yao, Koji, to Dainippon Screen Mfg. Co., Ltd. Method and system for recording images in various magnification ratios. 4,636,869, 1-13-87, Cl. 358-287.000.
Tomohisa, Kunio; and Cho, Masamichi, to Dainippon Screen Mfg. Co., Ltd. Output correction in image reproduction. 4,660,082, 4-21-87, Cl. 358-163.000.
Tomohisa, Kunio; Cho, Masamichi; and Kurusu, Yasuo, to Dainippon Screen Mfg. Co., Ltd. Method for emphasizing sharpness in picture scanning recording time in a picture reproducing machine. 4,672,463, 6-9-87, Cl. 358-284.000.
Tomohisa, Kunio; Maeda, Kiyoshi; and Cho, Masamichi, to Dainippon Screen Mfg. Co., Ltd. Method and system for compensating for a shading phenomenon. 4,691,241, 9-1-87, Cl. 358-293.000.
Tomohisa, Kunio; Cho, Masamichi; and Kurusu, Yasuo, to Dainippon Screen Mfg. Co., Ltd. Method and apparatus for interpolating image signals. 4,712,141, 12-8-87, Cl. 358-280.000.
Tomohisa, Kunio: *See*—
Maeda, Kiyoshi; and Tomohisa, Kunio, 4,647,145, Cl. 350-6.800.
Tomono, Hiroshi: *See*—
Yamada, Tsuneo; Sakashita, Tsutomu; Tomono, Hiroshi; Kimura, Takashi; Maehara, Yasuhiro; and Yasumoto, Kunio, 4,709,572, Cl. 72-366.000.
Tomono, Kunisaburo: *See*—
Imamura, Eiji; Kumokawa, Takashi; Nakayama, Fumio; Mandai, Haruhumi; Fukutani, Iwao; and Tomono, Kunisaburo, 4,698,605, Cl. 333-184.000.
Kawabata, Toshio; and Tomono, Kunisaburo, 4,689,594, Cl. 336-200.000.
Tomono, Makoto: *See*—
Haneda, Satoshi; Itoh, Takashi; Nakamura, Ken; and Tomono, Makoto, 4,675,267, Cl. 430-102.000.
Morita, Hideaki; Kasuya, Takahira; Yamakawa, Goichi; Tomono, Makoto; and Yasuda, Shinichiro, 4,657,837, Cl. 430-109.000.
Tomono, Masahiko: *See*—
Nishio, Hideaki; and Tomono, Masahiko, 4,674,528, Cl. 137-375.000.
Tomono, Noboru: *See*—
Fuji, Kunihisa; Tomono, Noboru; Kito, Tetsuo; and Yoshino, Kosei, 4,703,295, Cl. 335-129.000.
Tomooka, Keiji: *See*—
Takatori, Hiroshi; Suzuki, Toshiro; and Tomooka, Keiji, 4,658,217, Cl. 328-139.000.
Tomordi, Elemer: *See*—
Balint, Sandor; Benczik nee Pasztor, Judit; Fodor, Jozsef; Horvath, Andras; Tomordi, Elemer; Soptei, Csaba; Karsai, Jozsef; Sebestyen, Endre; Gaal, Sandor; Gardi, Ivan; Kiss, Gyorgy; Papp, Andrass; and Csatlos, Imre, 4,668,274, Cl. 71-86.000.
Tomori nee Jozst, Eva: *See*—
Bajusz, Sandor; Szell nee Hasenohrl, Erzsbet; Bagdy, Daniel; Barabas, Eva; Dioszegi, Mariann; Fittler, Zsuzsa; Jozsa, Ferencz; Horvath, Gyula; and Tomori nee Jozst, Eva, 4,703,036, Cl. 514-18.000.
Tomorrow Group, Inc., The: *See*—
Parnell, Raymond, 4,694,965, Cl. 211-87.000.
Tomosada, Masahiro; Miyata, Masanori; Adachi, Hideki; and Sato, Yukio, to Canon Kabushiki Kaisha. Image forming apparatus controlled by a plurality of image density detectors. 4,674,863, 6-23-87, Cl. 355-14.00E.
Tomosada, Masahiro: *See*—
Komiya, Yutaka; Tomosada, Masahiro; Nakamura, Shinichi; Miyata, Masanori; Hirose, Masayuki; and Adachi, Hideki, 4,697,916, Cl. 355-14.00E.
Miyata, Masanori; Komiya, Yutaka; Nakamura, Shinichi; Hirose, Masayuki; Adachi, Hideki; and Tomosada, Masahiro, 4,641,954, Cl. 355-14.00R.
Tomosue, Hiroshi. Apparatus for applying a label to packages of eggs or the like. 4,649,692, 3-17-87, Cl. 53-137.000.
Tomoyori, Makoto: *See*—
Harumatsu, Masatoshi; Fuse, Masashi; Tomoyori, Makoto; and Tsushima, Noboru, 4,672,563, Cl. 364-559.000.
Kando, Giichi; and Tomoyori, Makoto, 4,683,646, Cl. 29-611.000.
Tomoyuki, Nagashima, to Honda Giken Kogyo Kabushiki Kaisha. Frame for a four-wheel vehicle. 4,667,765, 5-26-87, Cl. 180-311.000.
Tomozaki, Ryozoo: *See*—
Takano, Yoshiya; Hoshi, Yoshikazu; Abe, Takao; and Tomozaki, Ryozoo, 4,687,425, Cl. 417-462.000.
Tomozawa, Kikuo: *See*—
Otobe, Yutaka; Kiuchi, Takeo; and Tomozawa, Kikuo, 4,639,870, Cl. 364-431.050.
Tompa, Ildiko F.; Nagy, Attila; Tajthak, Erno; Nyiredy, Szabolcs; Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida, Laszlo; Mincsovics, Emil; Kemeny, Gabor; and Baranyi, Piroska. Apparatus for overpressured thin-layer chromatographic technique. 4,671,870, 6-9-87, Cl. 210-149.000.
Tompe, Peter: *See*—
Berenyi nee Poldermann, Edit; Varga, Laszlo; Pallos, Laszlo; Petocz, Lujza; Ladanyi, Laszlo; Tompe, Peter; Hartai nee Zsorzs, Eva; and Kovacs nee Palotai, Agnes, 4,652,562, Cl. 514-237.000.
Tompkins, Dale A.: *See*—
Sicka, Richard W.; and Tompkins, Dale A., 4,657,718, Cl. 264-146.000.
Tompkins, E. Neal; Riley, Kim K.; Bartholmae, Jack N.; and Barry, Michael W., to Datapoint Corporation. Workstation for interfacing with a video conferencing network. 4,686,698, 8-11-87, Cl. 379-53.000.

Tompkins, E. Neal; Arends, Thomas C.; and Barry, Michael W., to Datapoint Corporation. Video conferencing network. 4,710,917, 12-1-87, Cl. 370-62.000.
Tompkins, E. Neil; and Bartholmae, Jack N., to Datapoint Corporation. Gain switched audio conferencing network. 4,716,585, 12-29-87, Cl. 379-202.000.
Tompkins, Stephen S.: *See*—
Dries, Gregory A.; and Tompkins, Stephen S., 4,662,955, Cl. 148-125.000.
Tompsett, Michael F.; and Zimany, Edward J., Jr., to AT&T Bell Laboratories. Automatic gain control amplifier circuit. 4,634,997, 1-6-87, Cl. 330-284.000.
Toms, Robert S., Jr., to Miner Enterprises, Inc. Wheel assembly and method and apparatus for making same. 4,666,215, 5-19-87, Cl. 301-5.700.
Tomse, Jack. Towing system for vehicles. 4,691,934, 9-8-87, Cl. 280-503.000.
Tomtec, N.V.: *See*—
Anthony, Jean M., 4,679,551, Cl. 128-67.000.
Tomura, Shinya: *See*—
Hosoya, Masahiro; Uehara, Tsutomu; and Tomura, Shinya, 4,656,965, Cl. 118-649.000.
Tomuro, Jinichi: *See*—
Nakamura, Yoichi; Yamamoto, Akio; Kurita, Goro; Tomuro, Jinichi; and Kuge, Toshio, 4,668,244, Cl. 44-1.00F.
Tomy Kogyo Co., Inc.: *See*—
Ajiro, Yutaka, 4,650,438, Cl. 446-136.000.
Furukawa, Masami, 4,673,371, Cl. 446-175.000.
Hoshino, Shiro; and Fujino, Bonpei, 4,680,022, Cl. 446-487.000.
Iseki, Takeo, 4,691,921, Cl. 273-85.00B.
Konta, Yukio; and Yoneda, Yosuke, 4,702,720, Cl. 446-448.000.
Kozuka, Michihiro, 4,652,248, Cl. 446-44[illegible].000.
Kubo, Takao, 4,654,659, Cl. 340-825.760.
Saito, Makato; and Watanabe, Hiroyuki, 4,676,763, Cl. 446-230.000.
Seki, Yoshizo, 4,693,694, Cl. 446-197.000.
Shindo, Yasushi; and Kurita, Toshiaki, 4,664,640, Cl. 446-227.000.
Tsuzuki, Akio, 4,696,477, Cl. 273-241.000.
Ton Company Ltd.: *See*—
Matsunobu, Akira; Horishita, Sumio; and Yamada, Tetsuo, 4,639,374, Cl. 426-43.000.
Ton, Michael A. Implant as well as a dental prosthesis attached to one or more of such implants. 4,671,768, 6-9-87, Cl. 433-174.000.
Tonali, Roberto, to Tonali S.p.A. Autodirecting security entrance for banks and the like. 4,656,954, 4-14-87, Cl. 109-6.000.
Tonali S.p.A.: *See*—
Tonali, Roberto, 4,656,954, Cl. 109-6.000.
Tonamura, Masashi: *See*—
Obara, Haruki; Ito, Masaya; and Tonamura, Masashi, 4,678,884, Cl. 219-69.00P.
Toncelli, Marcello. Process for the formation of blocks of any material by means of the contemporaneous action of vibrations, compression and vacuum intended for cutting into slabs and apparatus adapted to carry out the said process. 4,698,010, 10-6-87, Cl. 425-200.000.
Toncelli, Marcello. Process for the preparation of putty for use in coating, including automatic coating of slabs of marble or stone and the like under vacuo in two separate containers. 4,716,057, 12-29-87, Cl. 427-393.600.
Tondre, Stephen L.; and Lunk, Hans E., to Raychem Corporation. Electrical insulation. 4,678,709, 7-7-87, Cl. 428-380.000.
Tone, Hirosada, to Fujitsu Limited. Buffer storage system. 4,713,752, 12-15-87, Cl. 364-200.000.
Tone, Hitoshi; Miyamoto, Hisashi; Ueda, Hiraki; and Nakagawa, Kazuyuki, to Otsuka Pharmaceutical Company Limited. Antimicrobial 1-substituted phenyl-4-oxoquinoline-3-carboxylic acid compounds and compositions thereof. 4,684,648, 8-4-87, Cl. 514-249.000.
Tone, Junsuke: *See*—
Celmer, Walter D.; Cullen, Walter P.; Maeda, Hiroshi; and Tone, Junsuke, 4,652,523, Cl. 435-119.000.
Celmer, Walter D.; Cullen, Walter P.; Maeda, Hiroshi; Ruddock, John C.; and Tone, Junsuke, 4,707,493, Cl. 514-460.000.
Tone, Masatsugu, to Kubota Ltd. Coupling system and double shaft transmission structure for an argicultural tractor. 4,677,866, 7-7-87, Cl. 74-15.860.
Tone, Shoichi: *See*—
Matsui, Isamu; Tone, Shoichi; and Ueda, Yutaka, 4,660,370, Cl. 57-281.000.
Tone, Yasuyoshi, to Saami Co., Ltd. Rectangular tile-like carpet. 4,649,069, 3-10-87, Cl. 428-82.000.
Tonegawa, Susumu: *See*—
Gillies, Stephen D.; and Tonegawa, Susumu, 4,663,281, Cl. 435-68.000.
Tonegawa, Tadashi, to Sharp Kabushiki Kaisha. Electrophotographic copying method. 4,643,559, 2-17-87, Cl. 355-3.00R.
Tonegawa, Tadashi: *See*—
Ohashi, Kunio; Tonegawa, Tadashi; Nagata, Shoichi; and Nakamura, Masatsugu, 4,683,186, Cl. 430-84.000.
Tonegawa, Takeshi: *See*—
Eto, Goro; Itoh, Shigeo; Yokoyama, Mikio; and Tonegawa, Takeshi, 4,666,548, Cl. 156-286.000.
Tonelli, Claudio: *See*—
Bargigia, Gianangelo; Tortelli, Vito; and Tonelli, Claudio, 4,654,448, Cl. 570-156.000.
Marchionni, Giuseppe; Tonelli, Claudio; and Nicoletti, Alberto, 4,684,452, Cl. 204-157.940.
Toner, John L.: *See*—
Hinshaw, Jerald C.; Toner, John L.; and Reynolds, George A., 4,637,988, Cl. 436-546.000.
Hinshaw, Jerald C.; Toner, John L.; and Reynolds, George A., 4,670,572, Cl. 556-1.000.
Tong, David W.: *See*—
Rzad, Stefan J.; and Tong, David W., 4,650,555, Cl. 204-174.000.
Tong, Duncan, to Duncan Products Ltd. Swimming marine creature toys. 4,713,037, 12-15-87, Cl. 446-158.000.
Tong, Ho M.: *See*—
Clarke, Thomas C.; Lu, Neng H.; Tomkiewicz, Yaffa; and Tong, Ho M., 4,690,836, Cl. 427-299.000.
Tong, Long S. Passive safety device for emergency steam dump and heat removal for steam generators in nuclear power reactors. 4,687,626, 8-18-87, Cl. 376-298.000.
Tong Lung Metal Industry Co., Ltd.: *See*—
Fang, Yao P., 4,653,787, Cl. 292-337.000.
Fann, Yaw S.; and Wu, Rong-Faa, 4,639,025, Cl. 292-337.000.
Fann, Yaw-Shin; and Wu, Rong-Faa, 4,711,477, Cl. 292-169.14.
Tonge, Gary J., to Independent Broadcasting Authority. Method and apparatus for enhancing vertical chrominance resolution. 4,697,206, 9-29-87, Cl. 358-14.000.
Tongiani Domenico S.p.A.: *See*—
Bresciani, Paolo, 4,633,848, Cl. 125-21.000.
Tongu, Shinji, to Yazaki Corporation. Air-cooled absorption type water cooling/heating apparatus. 4,691,528, 9-8-87, Cl. 62-238.300.
Tonhaeuser, Wilhelm: *See*—
Letsche, Ulrich; Rapp, Wolfgang, deceased; Haefner, Guenther; and Tonhaeuser, Wilhelm, 4,711,220, Cl. 123-502.000.
Tonini, Cristina: *See*—
Arsura, Emilio; Capizzi, Amedeo; Cassani, Giorgio; Spinelli, Pia; and Tonini, Cristina, 4,656,032, Cl. 424-84.000.
Tonkel, Raymond F.; and Gross, Alexander L., to Kangaroos U.S.A., Inc. Cushioning and impact absorptive means for footwear. 4,656,760, 4-14-87, Cl. 36-28.000.
Tonn, Jeffrey F.: *See*—
Paros, Jerome M.; Tonn, Jeffrey F.; and Wearn, Richard B., Jr., 4,706,259, Cl. 374-117.000.
Tonner, Steven P.: *See*—
Parris, David; and Tonner, Steven P., 4,684,755, Cl. 585-257.000.
Tonnies, Herbert, to WEGU Gummi- und Kunststoffwerlee Walter Drabing. Mount for an exhaust system of a motor vehicle. 4,660,797, 4-28-87, Cl. 248-610.000.
Tonohara, Yoshiharu: *See*—
Noguchi, Takayo; Togawa, Yoichi; Nishimoto, Tsuneo; Tonohara, Yoshiharu; Rokkaku, Tadashi; Nakai, Setgo; Araki, Michio; and Kitano, Kahei, 4,695,209, Cl. 409-42.000.
Tonoki, Satoshi; Tsunemi, Hidenari; Nishimura, Asaichi; and Abe, Kunihisa, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Unsaturated polyester resin compositions. 4,710,420, 12-1-87, Cl. 428-212.000.
Tonomura, Akira: *See*—
Endo, Junji; Tonomura, Akira; Ozasa, Susumu; Matsuda, Tsuyoshi; Kimura, Chikara; and Osakabe, Nobuyuki, 4,642,461, Cl. 250-311.000.
Tonomura, Masashi, to Sony Corporation. Method and apparatus for transforming PRESTEL codes to NAPLPS codes. 4,654,633, 3-31-87, Cl. 340-347.0DD.
Tonomura, Motonobu: *See*—
Sakaibara, Toru; Tsujioka, Shigeo; Kajiura, Toshinori; Aoshima, Toshihisa; and Tonomura, Motonobu, 4,709,231, Cl. 340-729.000.
Tonomura, Shinji: *See*—
Okamoto, Shosuke; Kikumoto, Ryoji; Tamao, Yoshikuni; Tonomura, Shinji; and Ohkubo, Kazuo, 4,670,420, Cl. 514-20.000.
Tonomura, Shoichiro: *See*—
Aoshima, Atsushi; Tonomura, Shoichiro; Fukui, Hiroyuki; and Imai, Hisaya, 4,658,065, Cl. 564-487.000.
Aoshima, Atsushi; Yamamatsu, Setsuo; and Tonomura, Shoichiro, 4,677,231, Cl. 568-617.000.
Tonon, Giancarlo: *See*—
Borsa, Massimiliano; Tonon, Giancarlo; and Malandrino, Salvatore, 4,699,911, Cl. 514-255.000.
Giano, Roberto; Parini, Ettore; Malandrino, Salvatore; and Tonon, Giancarlo, 4,659,707, Cl. 514-215.000.
Tonon, Thomas: *See*—
Delahoy, Alan E.; and Tonon, Thomas, 4,680,616, Cl. 357-59.000.
Tonouchi, Akira: *See*—
Kagechika, Hiroshi; Tonouchi, Akira; and Kammel, Roland, 4,673,471, Cl. 204-44.500.
Tonsmann, Armin, to Schuco Heinz Schurmann GmbH & Co. Metal-glass structure for a front wall or a roof. 4,638,613, 1-27-87, Cl. 52-235.000.
Tonsmann, Armin: *See*—
Jager, Tilo; Tonsmann, Armin; Habicht, Siegfried; and Hocker, Eitel, 4,646,408, Cl. 29-243.500.
Jager, Tilo; Tonsmann, Armin; Habicht, Siegfried; and Hocker, Eitel, 4,662,054, Cl. 29-451.000.
Tonsor, Andrew J., to Caterpillar Inc. Track shoe deflection limiter for endless track assemblies. 4,636,013, 1-13-87, Cl. 305-48.000.
Tontarelli, Sergio. Plastic hanger with a grooved circular cross-section. 4,714,183, 12-22-87, Cl. 223-91.000.
Tonus, Egidio L., to Calif. Artichoke & Vegetable Growers Corp. Apparatus for banding cut produce. 4,674,270, 6-23-87, Cl. 53-556.000.

Tonyes, Henry J.; Keehn, William T.; German, Harold W.; and Hill, Brian S., to Gaines Pet Foods Corp. Dog food palatability enhancer and process. 4,713,250, 12-15-87, Cl. 426-2.000.

Tooker, Keith R.: *See*—
Nussbaum, Theodore W.; Tooker, Keith R.; and Cox, Percy T., 4,703,278, Cl. 324-344.000.

Toomey, Joseph E., Jr., to Reilly Tar & Chemical Corp. Electrochemical dimerizations of pyridinium salts. 4,670,111, 6-2-87, Cl. 204-73.00A.

Toomey, Joseph E., Jr., to Reilly Tar & Chemical Corporation. Electrochemical reduction of pyridine carboxamide bases. 4,695,352, 9-22-87, Cl. 204-74.000.

Toon, Frank L. Paper salvage attachment for paper cutter. 4,662,255, 5-5-87, Cl. 83-104.000.

Toops, Kenneth E., to General Electric Company. Rechargeable battery and electrical circuit for charging thereof. 4,645,996, 2-24-87, Cl. 320-2.000.

Tooten, Karl-Heinz: *See*—
Bruer, Dirk; Tooten, Karl-Heinz; and Freye, Theo, 4,686,812, Cl. 53-118.000.
Busse, Winfried; Freye, Theodor; Tooten, Karl Heinz; and Clostermeyer, Gerhard, 4,656,812, Cl. 53-399.000.
Clostermeyer, Gerhard; Konekamp, Werner; and Tooten, Karl-Heinz, 4,635,543, Cl. 100-89.000.

Tootle, James N.; and Martin, Eugene J., to Pneumo Corporation. Fluid actuator with feedback mechanism. 4,714,006, 12-22-87, Cl. 92-5.00R.

Tootle, James N.: *See*—
Dirkin, William; Douglass, Duane; Tootle, James N.; and Benton, Terry L., 4,685,384, Cl. 92-166.000.
Dirkin, William; Douglass, Duane; Tootle, James N.; and Benton, Terry L., 4,697,499, Cl. 92-151.000.
Martin, Eugene J.; Tootle, James N.; Fallows, Walter; Lambers, Howard; and Vanderlaan, Robert D., 4,645,178, Cl. 251-229.000.

Tootsie Roll Industries, Inc.: *See*—
Schneider, Wesley C., 4,697,699, Cl. 206-44.110.

Top-Air Manufacturing, Inc.: *See*—
Dudley, Wayne C., 4,634,051, Cl. 239-168.000.
Dudley, Wayne C., 4,650,117, Cl. 239-168.000.

Top Driver Enterprise Co., Ltd.: *See*—
Yuan, Lo J., 4,712,456, Cl. 81-473.000.

Top Flite Industries, Inc.: *See*—
Jackson, Garth A.; and Ballard, A. Stevens, 4,658,524, Cl. 40-499.000.

Top Shelf Company, Inc.: *See*—
Wilcox, John R., 4,713,949, Cl. 68-235.00R.

Top Siden: *See*—
Jaouen, Gerard; Vessieres, Anne; and Top, Siden, 4,656,142, Cl. 436-501.000.

Topcik, Barry, to Union Carbide Corporation. Olefin polymer foams. 4,659,746, 4-21-87, Cl. 521-89.000.

Topert, Michael: *See*—
Annen, Klaus; Laurent, Henry; Elger, Walter; Wiechert, Rudolf; Hofmeister, Helmut; and Topert, Michael, 4,670,427, Cl. 514-178.000.

Topf, Siegfried: *See*—
Purstinger, Franz; and Topf, Siegfried, 4,685,879, Cl. 425-383.000.

Topfl, Rosemarie, to Ciba-Geigy Corporation. Bisimidazolium salts. 4,684,736, 8-4-87, Cl. 548-309.000.

Topfl, Rosemarie, to Ciba-Geigy Corporation. Process for improving the colour yield and wetfastness properties of dyeings or prints produced on cellulosic fabrics with anionic dyes: treatment with cationic imidazole. 4,695,289, 9-22-87, Cl. 8-573.000.

Topfl, Rosemarie, to Ciba-Geigy Corporation. Cationic reaction products formed from 1-aminoalkyl-imidazole compounds and epihalohydrins. 4,705,865, 11-10-87, Cl. 548-341.000.

Topfl, Rosemarie; and Abel, Heinz, to Ciba-Geigy Corporation. Maleic or phthalic acid half esters of alkoxylated fatty amines. 4,713,482, 12-15-87, Cl. 560-196.000.

Topfl, Werner, to Ciga-Geigy Corporation. Herbicidal N-arylsulfonyl-N'-(4-mercaptomethylpyrimdinyl)-ureas. 4,639,264, 1-27-87, Cl. 71-87.000.

Topfl, Werner, to Ciba-Geigy Corporation. Process for producing sulfonylureas. 4,656,273, 4-7-87, Cl. 544-211.000.

Topfl, Werner; Meyer, Willy; and Schneider, Hans-Dieter, to Ciba-Geigy Corporation. Herbicidal sulfonylureas. 4,685,961, 8-11-87, Cl. 71-92.000.

Topfl, Werner; and Pissiotas, Georg, to Ciba-Geigy Corporation. Herbicidal sulfonylureas. 4,701,206, 10-20-87, Cl. 71-90.000.

Topfl, Werner: *See*—
Ehrenfreund, Josef; Fory, Werner; Meyer, Willy; and Topfl, Werner, 4,634,465, Cl. 71-91.000.
Ehrenfreund, Josef; Fory, Werner; Meyer, Willy; and Topfl, Werner, 4,677,212, Cl. 549-15.000.
Gass, Karl; Fory, Werner; Meyer, Willy; and Topfl, Werner, 4,648,899, Cl. 71-93.000.
Kristinsson, Haukur; and Topfl, Werner, 4,680,395, Cl. 544-321.000.
Maier, Ludwig; Meyer, Willy; Oertle, Konrad; Roloff, Achim; and Topfl, Werner, 4,677,217, Cl. 558-190.000.
Meyer, Willy; Fory, Werner; and Topfl, Werner, 4,668,800, Cl. 549-61.000.
Schurter, Rolf; Thummel, Rudolph C.; Topfl, Werner; Meyer, Willy; and Durr, Dieter, 4,664,695, Cl. 71-92.000.

Topflight Corp.: *See*—
Lasik, Dennis Z.; and Roman, Michael F., 4,670,347, Cl. 428-458.000.

Topham, Arnold, J.; and Wilson, Harry W., to Dibbler, Inc. No-till planter. 4,637,328, 1-20-87, Cl. 111-89.000.

Topham, Harland G., to English Electric Company Limited, The. Energy dissipator. 4,664,853, 5-12-87, Cl. 261-62.000.

Tophinke, Franz, to Claas Ohg. Self-propelled harvester thresher. 4,653,515, 3-31-87, Cl. 130-27.00T.

Topholm, Jan, to Topholm & Westermann ApS. In-the-ear-canal hearing aid. 4,706,778, 11-17-87, Cl. 181-135.000.

Topholm & Westermann ApS: *See*—
Topholm, Jan, 4,706,778, Cl. 181-135.000.

Topic, Aloyzija; and Rohling, Bernd-Holger, to Lucas Industries public limited company. Wear indicator for friction linings. 4,677,420, 6-30-87, Cl. 340-52.00A.

Topich, James A.: *See*—
Lockwood, George C.; Topich, James A.; Turi, Raymond A.; and Maggard, George H., 4,683,554, Cl. 365-185.000.

Toplay Limited: *See*—
Udagawa, Yoshio, 4,708,685, Cl. 446-139.000.

Toplenszky, Tibor. Heated windshield wiper. 4,670,933, 6-9-87, Cl. 15-250.070.

Topness, Paul C.; McGehee, Bobby L.; and Woodcock, Roy, to Boeing Company, The. Dual turbine drive. 4,671,734, 6-9-87, Cl. 415-69.000.

Topness, Paul C.: *See*—
Andersson, Anders O.; Slotboom, David R.; and Topness, Paul C., 4,651,566, Cl. 73-589.000.
Ganz, Ulrich W.; and Topness, Paul C., 4,691,561, Cl. 73-117.100.

Topolski, Alvin S., to Du Pont de Nemours, E. I., and Company. Seamless laminar article. 4,677,006, 6-30-87, Cl. 428-35.000.

Topp, Mark; and Hadden, Sam, to Cordis Corporation. Screen printable polymer electroluminescent display with isolation. 4,665,342, 5-12-87, Cl. 313-505.000.

Toppan Moore Co., Ltd.: *See*—
Moriwaki, Masafumi; Sano, Shigeaki; and Tanaka, Eiichi, 4,636,582, Cl. 178-18.000.
Watanabe, Hiroshi, 4,709,136, Cl. 235-379.000.

Toppan Printing Co., Ltd.: *See*—
Igarashi, Makoto; Okano, Kiichiro; and Kumagami, Naoki, 4,641,742, Cl. 198-627.000.
Koizumi, Yuichiro; Nojima, Masaki; and Shimiya, Keiji, 4,701,622, Cl. 250-486.100.
Masuda, Toshiro; Ishizuka, Kouichi; Fujita, Toshiji; and Kinoshita, Yoshio, 4,685,139, Cl. 382-1.000.
Nakamura, Junji; Nishimura, Ikuma; Saito, Goro; and Matsumoto, Kozo, 4,710,436, Cl. 429-41.000.
Tanaka, Tsuneo; Yoshitomi, Tetsuro; Hanada, Koji; Ohashi, Mashato; and Hikosaka, Michichika, 4,708,903, Cl. 428-195.000.
Tsuzuki, Kiyoshi; Tanaka, Sigeto; and Take, Yoshiaki, 4,715,527, Cl. 229-1.50B.

Topper, Robert J.; and Dischert, Robert A., to RCA Corporation. Method and apparatus for freezing a television picture. 4,679,084, 7-7-87, Cl. 358-160.000.

Topper, Robert J., to RCA Corporation. Compatible wide-screen television system camera. 4,683,498, 7-28-87, Cl. 358-209.000.

Topper, Robert J.: *See*—
Dischert, Robert A.; Topper, Robert J.; and Shyu, William M., 4,673,978, Cl. 358-140.000.
Dischert, Robert A.; and Topper, Robert J., 4,677,483, Cl. 358-140.000.
Dischert, Robert A.; Ader, Joseph R.; and Topper, Robert J., 4,684,977, Cl. 358-31.000.

Topre Corporation: *See*—
Hasegawa, Hiroshi, 4,659,879, Cl. 200-5.00A.
Suzuki, Hikoshiro, 4,633,900, Cl. 137-504.000.

Topshore Limited: *See*—
Wick, Cyril, 4,685,411, Cl. 114-202.000.

Topura Co., Ltd.: *See*—
Yamasaki, Katsuhisa, 4,677,703, Cl. 10-9.000.
Yaotani, Kouichi; Nakada, Fumio; Tanaka, Takao; and Yoshida, Minoru, 4,637,767, Cl. 411-411.000.

Topwave Instruments Oy: *See*—
Kalliomaki, Kalevi J.; Kivela, Retjo A.; and Saarimaa, Raimo V., 4,647,205, Cl. 356-357.000.

Tor, Ruth: *See*—
Freeman, Amihay; and Tor, Ruth, 4,659,665, Cl. 435-182.000.

Torabi, Mohammad T. Double-hung closure for access openings. 4,694,609, 9-22-87, Cl. 49-193.000.

Torao, Akira: *See*—
Asano, Yuichiro; Kono, Yoshihisa; Yanagimoto, Takayuki; Shiozumi, Motoji; Takahashi, Kunio; Torao, Akira; Moriya, Susumu; and Momose, Atsushi, 4,708,882, Cl. 427-1.000.

Toratani, Hisayoshi: *See*—
Nakajima, Sadahiro; and Toratani, Hisayoshi, 4,693,910, Cl. 427-168.000.

Torawaki, Takao: *See*—
Maeda, Hironobu; Kitahara, Seizaburo; Yoshmura, Haruo; Torawaki, Takao; Yaegasi, Takasi; and Yamaoka, Isao, 4,677,934, Cl. 118-58.000.

Toray Industries, Inc.: *See*—
Ando, Katsutoshi; and Eiichi, Nishiura, 4,656,081, Cl. 428-233.000.
Asakura, Toshiyuki; Kobayashi, Hiroaki; and Itoh, Nobuaki, 4,645,702, Cl. 428-141.000.
Deguchi, Yukichi; and Kobayashi, Hiroaki, 4,672,506, Cl. 361-323.000.
Hagiwara, Satoru; Satoh, Kimio; and Okabe, Kazuo, 4,683,093, Cl. 264-22.000.
Haraguchi, Masato, 4,698,160, Cl. 210-647.000.

Hasegawa, Katsumi; Yasuda, Toshio; and Shimada, Kouji, 4,674,694, Cl. 242-43.00R.
Hasegawa, Katsumi; Ohno, Michio; Nagayasu, Tadahito; and Umeda, Kazuo, 4,702,871, Cl. 264-101.000.
Hasegawa, Kenji; Sakano, Yasuo; Katsuragi, Yasuhiro; Aimoto, Kenji; and Sugihara, Kunio, 4,675,184, Cl. 424-85.000.
Hata, Ryosuke; Yamanouchi, Shosuke; Hirose, Masayuki; Yoshii, Toshiya; Tsunashima, Kenji; and Horiuchi, Satoshi, 4,675,470, Cl. 174-25.00R.
Hiramatsu, Tohru; Matsuhisa, Yohji; and Higuchi, Tomitake, 4,637,925, Cl. 423-447.400.
Hosaka, Shuntaro; and Murao, Yasuo, 4,656,144, Cl. 436-534.000.
Iida, Hiroshi; Azuma, Kunihiro; and Hayashi, Masahiko, 4,656,241, Cl. 528-279.000.
Kitagawa, Katsuichi; and Tamura, Kouichi, 4,693,608, Cl. 356-394.000.
Kodama, Masashi; Tani, Toru; Hanazawa, Kazuyoshi; Oka, Totaro; Teramoto, Kazuo; and Nishiumi, Shiro, 4,661,260, Cl. 210-679.000.
Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, 4,663,362, Cl. 521-134.000.
Koebisu, Mamoru; Nishioka, Takeshi; Kamijyukkoku, Nario; and Kawano, Hirosi, 4,701,472, Cl. 521-50.500.
Kojima, Teiryo; Matsuda, Heiichiro; and Tokizane, Masaru, 4,682,465, Cl. 57-247.000.
Matsuura, Kazuo; Nakahara, Katuzi; and Hayashi, Kenji, 4,702,980, Cl. 430-63.000.
Minorikawa, Koich; and Kitazawa, Shinichi, 4,667,463, Cl. 57-328.000.
Miwa, Kishio; Nagaoka, Yukiko; and Inoue, Takehisa, 4,698,453, Cl. 585-828.000.
Miwa, Kishio; Kihara, Makoto; Sakaya, Kazuyuki; and Inoue, Takehisa, 4,705,627, Cl. 210-264.000.
Morimoto, Hiroshi; and Ohura, Akio, 4,694,086, Cl. 564-236.000.
Nagao, Shozo; Mitani, Naoyuki; and Nakagawa, Teruyuki, 4,676,905, Cl. 210-646.000.
Nagayama, Takashi; Otani, Mitsunobu; and Date, Tamotsu, 4,707,260, Cl. 210-386.000.
Nakagawa, Yukio; Oto, Katsufumi; and Kurihara, Masaru, 4,634,531, Cl. 210-639.000.
Nakahara, Yasuzi; Yamagishi, Hideki; and Kirimura, Shun-ichiro, 4,675,233, Cl. 428-323.000.
Nakamura, Kiyokazu; Kometani, Kiichi; and Inoue, Toshihide, 4,664,983, Cl. 428-458.000.
Negishi, Takao; and Kojima, Teiryo, 4,656,825, Cl. 57-289.000.
Nogi, Tatsuo; Iwami, Tomonori; and Tanaka, Kazumi, 4,678,581, Cl. 210-500.230.
Ogasawara, Masafumi; Yamaguchi, Nobu; and Moriki, Yoshikazu, 4,648,826, Cl. 425-192.00S.
Ohkado, Shinzo; and Kenjo, Hideki, 4,699,934, Cl. 523-106.000.
Oikawa, Tatuo; Izasa, Takao; and Okabe, Kazuo, 4,699,845, Cl. 428-480.000.
Okada, Reisuke; and Fujino, Hisami, 4,661,301, Cl. 264-41.000.
Okamoto, Miyoshi, 4,686,074, Cl. 264-171.000.
Sakai, Masaaki; and Yamagata, Seiichi, 4,667,703, Cl. 139-20.000.
Sano, Takao; Sekido, Toshihide; and Ogasawara, Masafumi, 4,666,590, Cl. 209-2.000.
Sato, Yoshiaki; and Suzuki, Hisao, 4,639,397, Cl. 428-397.000.
Takezawa, Yoshio; and Akatsu, Tatsuo, 4,690,969, Cl. 524-413.000.
Tanaka, Hiroyoshi; Suzuki, Mitsuo; and Ueda, Fujio, 4,698,194, Cl. 264-185.000.
Watanabe, Koji; Okamoto, Miyoshi; Mori, Yuichi; and Noishiki, Yasuharu, 4,695,280, Cl. 623-1.000.
Yoshii, Toshiya; and Okabe, Kazuo, 4,708,905, Cl. 428-216.000.
Yoshikawa, Seiichi; Yoshioka, Toshio; and Shimamura, Masaharu, 4,700,723, Cl. 131-334.000.
Yoshioka, Toshio; Yoshikawa, Seiichi; and Shimamura, Masaharu, 4,693,828, Cl. 210-679.000.

Toray Silicone Co., Ltd.: *See*—
Fukayama, Miyoji; and Ohnishi, Masayuki, 4,704,419, Cl. 524-188.000.
Kishimoto, Keiichi; and Yoshitake, Makoto, 4,637,889, Cl. 252-75.000.
Kobayashi, Masaru; Koyanagi, Hironobu; and Sato, Takahiro, 4,649,005, Cl. 264-101.000.
Kondo, Hidetoshi; and Koshii, Taro, 4,677,160, Cl. 524-860.000.
Mikami, Ryuzo, 4,683,250, Cl. 522-33.000.
Mikami, Ryuzo, 4,683,251, Cl. 522-46.000.
Morita, Yoshitsugu; and Shirahata, Akihiko, 4,663,397, Cl. 525-396.000.
Ona, Isao; and Ozaki, Masaru, 4,645,691, Cl. 427-180.000.
Ona, Isao; Ozaki, Masaru; and Fujii, Tadashi, 4,684,709, Cl. 528-15.000.
Saito, Masayuki; and Hamada, Mitsuo, 4,681,636, Cl. 106-287.150.
Shirahata, Akihiko, 4,707,531, Cl. 528-12.000.
Sugihara, Junpei; Imai, Takeshi; Toida, Shuzo; and Takahashi, Ikuzo, 4,697,027, Cl. 556-466.000.
Sumimura, Shin-ichi; and Tazawa, Akira, 4,696,970, Cl. 524-860.000.
Suzuki, Toshio, 4,642,265, Cl. 428-375.000.
Suzuki, Toshio; Shirahata, Akihiko; and Muramoto, Naohiro, 4,677,161, Cl. 524-862.000.
Suzuki, Toshio, 4,683,278, Cl. 528-32.000.
Yoshitake, Makoto; and Kishimoto, Keiichi, 4,683,319, Cl. 556-425.000.
Yoshitake, Makoto; and Kishimoto, Keiichi, 4,696,756, Cl. 252-78.300.

Toray Thiokol Company Limited: *See*—
Nakagima, Masashi; Kojima, Hiroshi; Matsui, Tatsuro; and Dokoshi, Noriaki, 4,698,407, Cl. 528-14.000.

Torazzina, Aldo: *See*—
Palara, Sergio; and Torazzina, Aldo, 4,638,507, Cl. 381-94.000.
Palara, Sergio; and Torazzina, Aldo, 4,644,294, Cl. 330-298.000.
Palara, Sergio; and Torazzina, Aldo, 4,682,120, Cl. 330-298.000.
Villa, Flavio; Murari, Bruno; Bertotti, Franco; Torazzina, Aldo; and Stefani, Fabrizio, 4,682,197, Cl. 357-36.000.

Torban, Yefim; and Hary, Joseph, to Allied Corporation. Self locking coupling device. 4,648,671, 3-10-87, Cl. 339-89.00R.

Torbet, Philip A. Bed utilizing an air mattress. 4,662,012, 5-5-87, Cl. 5-453.000.

Torbus, Marek, to Huttenes-Albertus Chemische Werke GmbH. Mold material binding agent system which cold-hardens with formation of polyurethane. 4,678,816, 7-7-87, Cl. 523-142.000.

Torbusch, Klaus: *See*—
Holtermann, Otto; Torbusch, Klaus; and Bieber, Gerold, 4,685,548, Cl. 192-0.080.

Torby, Arne S. Method and apparatus for radar surveillance. 4,665,400, 5-12-87, Cl. 342-27.000.

Torcad Limited: *See*—
Sutherland, James A., 4,657,599, Cl. 148-6.200.

Torck, Bernard; Amigues, Pierre; Glaize, Yves; Grangette, Henri Laurent, Jean; and Fitoussi, Fred, to Institut Francais du Petrole, and Elf France. Process for producing a hydrocarbon cut of high octane number by etherification of olefins. 4,647,703, 3-3-87, Cl. 568-697.000.

Torck, Bernard; Amigues, Pierre; Weill, Jerome; Gueguen, Claude; Llinares, Michel; and Bourgognon, Henri, to Institut Francais du Petrole; and Elf France. Process for upgrading olefinic gasolines by etherification. 4,664,675, 5-12-87, Cl. 44-60.000.

Torcon Products, Inc.: *See*—
Coston, David B., 4,713,744, Cl. 363-160.000.

Tordeux, Marc: *See*—
Francese, Catherine; Tordeux, Marc; and Wakselman, Claude, 4,701,569, Cl. 568-812.000.

Tordonato, Sebastian, to Combustion Engineering, Inc. Support rack for tubes immersed in a fluidized bed. 4,637,455, 1-20-87, Cl. 165-104.160.

Torelli, Guido; and De La Plaza, Alejandro, to SGS Microelettronica S.p.A. System for expanding the stereo base of stereophonic acoustic diffusion apparatus. 4,696,035, 9-22-87, Cl. 381-1.000.

Torelli, Guido: *See*—
De La Plaza, Alejandro; and Torelli, Guido, 4,703,249, Cl. 323-316.000.
Devecchi, Daniele; and Torelli, Guido, 4,714,845, Cl. 307-496.000.

Torelli, Vesperto; Teutsch, Jean G.; and Philibert, Daniel, to Roussel Uclaf. Steroid derivatives. 4,634,695, 1-6-87, Cl. 514-178.000.

Torelli, Vesperto; Nedelec, Lucien; Moguilewski, Martine; and Moura, Anne-Marie, to Roussel Uclaf. Novel 10-substituted steroids and their use in the induction of aldosterone antagonistic activity. 4,701,449, 10-20-87, Cl. 514-175.000.

Torelli, Vesperto: *See*—
Teutsch, Jean-Georges; Torelli, Vesperto; Deraedt, Roger; and Philibert, Daniel, 4,634,696, Cl. 514-179.000.

Torgardh, Ralph, to AB Volvo. Coupling arrangement for pressurized medium lines. 4,707,000, 11-17-87, Cl. 285-305.000.

Torgerson, Darrel D.: *See*—
Patton, Gail Y.; and Torgerson, Darrel D., 4,674,011, Cl. 362-32.000.

Torgerson, Gary D.; and Ferm, Joyce E., to Ferm & Torgerson Partnership. Hinge mask. 4,691,409, 9-8-87, Cl. 16-250.000.

Torgeson, W. Lee, to Resnick, Joseph A. Speech prosthesis. 4,706,292, 11-10-87, Cl. 381-70.000.

Torgeson, William L.: *See*—
Shames, George H.; and Torgeson, William L., 4,685,448, Cl. 128-1.00R.

Torgny, Jan, to JATAB, Jan Torgny AB. Method and an invalid chair for conveying a person having limited ability to move without heavy lifting from a sitting to a lying position. 4,679,849, 7-14-87, Cl. 297-330.000.

Torgrimson, Donald L. Bobber lifting device. 4,667,432, 5-26-87, Cl. 43-17.000.

Torielli, Alessandro: *See*—
Gandini, Marco; and Torielli, Alessandro, 4,669,093, Cl. 375-25.000.

Torigai, Akiyoshi: *See*—
Ohno, Akio; and Torigai, Akiyoshi, 4,636,062, Cl. 355-43.000.

Torigian, Puzant C., to Challenger Industries, Ltd. Method of treating lettuce and other leafy vegetable plants and products produced therefrom. 4,700,727, 10-20-87, Cl. 131-369.000.

Torigoe, Hideo: *See*—
Shimizu, Goro; Hayashi, Yoshimi; Hasegawa, Hajime; Koga, Taiji; Takei, Atsuo; Okuyama, Tohru; and Torigoe, Hideo, 4,666,949, Cl. 521-114.000.

Torigoe, Kaname: *See*—
Tomioka, Hiroyuki; Nakata, Mitsuo; Kusakawa, Nobuhiro; and Torigoe, Kaname, 4,642,979, Cl. 57-264.000.

Torigoe, Makoto; Kohno, Michio; and Suzuki, Akiyoshi, to Canon Kabushiki Kaisha. Exposure apparatus. 4,653,903, 3-31-87, Cl. 355-53.000.

Torigoe, Makoto, to Canon Kabushiki Kaisha. Illumination apparatus. 4,682,885, 7-28-87, Cl. 355-67.000.

Torigoe, Makoto; Suzuki, Akiyoshi; and Sakai, Terumasa, to Canon Kabushiki Kaisha. Exposure apparatus. 4,711,568, 12-8-87, Cl. 355-68.000.
Torigoe, Masao: *See*—
Yamaura, Izumi; Fukumoto, Masami; and Torigoe, Masao. 4,679,990, Cl. 417-312.000.
Torigoe, Toshihiro: *See*—
Sakamoto, Hiroshi; Torigoe, Toshihiro; and Yamaguchi, Tadashi. 4,716,291, Cl. 250-318.000.
Torigoe, Yutaka, to Dainichi-Nippon Cables, Ltd. Tape for corrosion protection. 4,645,697, 2-24-87, Cl. 428-43.000.
Torii & Co. Ltd.: *See*—
Fujii, Setsuro; Nakayama, Toyoo; Nunomura, Shigeki; Matsui, Ryoji; Watanabe, Shin-ichi; Sudo, Kimio; Okutome, Toshiyuki; Kurumi, Masateru; Sakurai, Yojiro; and Aoyama, Takuo. 4,634,783, Cl. 549-475.000.
Torii, Hideo: *See*—
Kuribayashi, Kiyoshi; Sakai, Masayuki; Monji, Hideto; Aoki, Masaki; Okinaka, Hideyuki; and Torii, Hideo. 4,635,948, Cl. 65-26.000.
Torii, Hisatsugu, to Fuji Photo Film Co., Ltd. Exposure mask for micro camera. 4,712,911, 12-15-87, Cl. 355-74.000.
Torii, Kazutoshi: *See*—
Sugimoto, Naotsugu; Torii, Kazutoshi; Tanahashi, Yuka; Morita, Hideo; Watanabe, Yuzo; Yamamoto, Kohei; and Kainuma, Teisuke. 4,656,044, Cl. 426-592.000.
Torii, Kunio: *See*—
Yasunami, Masabumi; Takase, Kahei; Shinji, Akira; Mimura, Toru; Torii, Kunio; Kobayashi, Takaaki; Okutsu, Masaru; and Meguro, Takashi. 4,656,194, Cl. 514-693.000.
Torii, Kuniyoshi: *See*—
Mimasu, Takeo; and Torii, Kuniyoshi. 4,681,757, Cl. 424-47.000.
Torii, Munetomo: *See*—
Kagawa, Hirohiko; Kyotani, Yasuhiro; and Torii, Munetomo. 4,716,184, Cl. 523-310.000.
Torii, Nobutoshi: *See*—
Nakashima, Seiichiro; Toyoda, Kenichi; Torii, Nobutoshi; and Nihei, Ryo. 4,637,773, Cl. 414-732.000.
Nakashima, Seiichiro; and Torii, Nobutoshi. 4,647,753, Cl. 219-125.100.
Nakashima, Seiichiro; Torii, Nobutoshi; and Hamura, Masayuki. 4,652,203, Cl. 414-730.000.
Nakashima, Seiichiro; Toyoda, Kenichi; Sakakibara, Shinsuke; and Torii, Nobutoshi. 4,697,979, Cl. 414-786.000.
Nakashima, Seiichiro; Toyoda, Kenichi; and Torii, Nobutosni. 4,706,001, Cl. 318-568.000.
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, to Otsuka Kagaku Kabushiki Kaisha. Bicyclic azetidinone intermediates. 4,656,264, 4-7-87, Cl. 540-353.000.
Torii, Shigeru; Tanaka, Hideo; Nogami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, to Otsuka Kagaku Kabushiki Kaisha. Process for preparing cephalosporin compounds. 4,665,166, 5-12-87, Cl. 540-215.000.
Torii, Shumpeita: *See*—
Matsuda, Terumi; and Torii, Shumpeita. 4,665,003, Cl. 430-139.000.
Tamura, Kaoru; and Torii, Shumpeita, 4,681,227, Cl. 206-455.000.
Torii, Shunichi; Nagashima, Shigeo; and Omoda, Koichiro, to Hitachi, Ltd. Data processing apparatus. 4,712,175, 12-8-87, Cl. 364-200.000.
Torii, Shunichi: *See*—
Kojima, Keiji; and Torii, Shunichi. 4,644,471, Cl. 364-300.000.
Omoda, Koichiro; Nagashima, Shigeo; and Torii, Shunichi. 4,651,274, Cl. 364-200.000.
Torii, Shuuji: *See*—
Ozaki, Kiyotaka; Torii, Shuuji; Jindo, Tomio; and Imaseki, Takashi. 4,679,463, Cl. 74-711.000.
Torii, Sigeru; Uneyama, Kenji; Tanaka, Hideo; Nokami, Junzo; Sasaoka, Michio; Saito, Norio; and Shiroi, Takashi, to Otsuka Kagaku Yakuhin Kabushiki Kaisha. 4-thio azetidinone intermediates and process for the preparation of the same. 4,689,411, 8-25-87, Cl. 540-358.000.
Torii, Sigeru; Tanaka, Hideo; Sasaoka, Michio, Uto, Seiryu; and Hayase, Syozo, to Otsuka Kagaku Kabushiki Kaisha. Process for preparation of azetidinone derivatives. 4,713,452, 12-15-87, Cl. 540-358.000.
Torii, Takahiro; Ishiguro, Mamoru; and Senoh, Hideaki, to Mitsubishi Paper Mills, Ltd. Carbonless paper for use in letter printers. 4,642,662, 2-10-87, Cl. 346-215.000.
Torii, Takahiro: *See*—
Watanabe, Isamu; Kamiya, Kazuhiro; Torii, Takahiro; and Mori, Toshihito. 4,647,656, Cl. 536-16.100.
Torii, Yasushi: *See*—
Fujiwara, Kazuo; Torii, Yasushi; Kitahata, Koujiro; Inoue, Tsuyoshi; and Yokoyama, Tadamasa, deceased. 4,689,198, Cl. 420-47.000.
Torii, Yasuyoshi: *See*—
Sekiya, Tadashi; Tsuzuki, Akihiro; and Torii, Yasuyoshi. 4,678,732, Cl. 430-136.000.
Torikai, Eiichi, to Agency of Industrial Science & Technology, Ministry of International Trade & Industry. Method for production of moisture sensitive element. 4,693,953, 9-15-87, Cl. 430-165.000.
Torikai, Toshitaka: *See*—
Sugimoto, Yoshimasa; Torikai, Toshitaka; and Tagushi, Kenko. 4,651,187, Cl. 357-30.000.
Torimaru, Takashi: *See*—
Kobayashi, Tamotsu; Goto, Shigeru; Ohta, Hironobu; and Torimaru, Takashi. 4,680,973, Cl. 73-861.160.
Suzuki, Kazuie; Torimaru, Takashi; and Ohta, Hironobu. 4,663,976, Cl. 73-861.120.
Torino, Arthur J., Jr.: *See*—
Shovlin, Thomas D.; Torino, Arthur J., Jr.; Goodman, Donald W.; and Brown, William C., Jr.. 4,652,882, Cl. 342-150.000.
Torisawa, Nobuyuki: *See*—
Seki, Takatoshi; Akimoto, Taizo; Ookawa, Norio; and Torisawa, Nobuyuki. 4,664,506, Cl. 355-20.000.
Torisawa, Soichi: *See*—
Koizumi, Yasuhiro; Torisawa, Soichi; Gartner, Walter; Dietz, Gudrun; and Retschke, Wolfgang. 4,704,348, Cl. 430-327.000.
Yokoo, Sadao; Shimomura, Tadashi; Torisawa, Soichi; Dan, Masahiro; and Kaneda, Tsuyoshi. 4,634,270, Cl. 355-125.000.
Torisawa, Yoshihiro: *See*—
Okuno, Shigeru; Torisawa, Yoshihiro; Endo, Mitsuharu; Nakayama, Tetsuroh; Shimosato, Masashi; and Fukushima, Takafumi. 4,696,589, Cl. 400-119.000.
Shimosato, Masashi; Torisawa, Yoshihiro; Nishikawa, Hisashi; and Endo, Mitsuharu. 4,646,111, Cl. 346-140.00R.
Torisu, Masaaki: *See*—
Hirai, Yutaka; Torisu, Masaaki; and Nagayoshi, Eri. 4,665,176, Cl. 544-258.000.
Toriumi, Mototada: *See*—
Kanemitsu, Shinji; and Toriumi, Mototada. 4,676,498, Cl. 271-251.000.
Nishino, Fumio; Onoda, Shigeyoshi; Nomura, Akihiro; Mizutani, Morikazu; Kanemitsu, Shinji; and Toriumi, Mototada. 4,714,337, Cl. 355-3.0DR.
Toriumi, Shiro; Yamagishi, Seiichi; Yamakoshi, Yukiyoshi; Ishii, Kenjiro; and Maeda, Yutaka, to Minolta Camera Kabushiki Kaisha. Image recording apparatus for transporting photosensitive film sheet. 4,665,408, 5-12-87, Cl. 346-134.000.
Toriumi, Yuki; Suzuki, Kazunori; and Katsuta, Hiroo, to Canon Kabushiki Kaisha. Aligning method. 4,643,579, 2-17-87, Cl. 356-401.000.
Toriumi, Yuki: *See*—
Suzuki, Kazunori; Katsuta, Hiroo; and Toriumi, Yuki. 4,637,850, Cl. 156-60.000.
Toriya, Hajime: *See*—
Shibashita, Naoaki; Toriya, Hajime; Shimomura, Kiyoshi; Urushidani, Haruo; and Kaneko, Ryoichi. 4,688,385, Cl. 60-646.000.
Toriyama, Minoru; Kunisada, Hideaki; and Sato, Katsuo, to Hitachi, Ltd.; and Hitachi Engineering Co., Ltd. Overcurrent and overvoltage protected transistor inverter. 4,672,524, 6-9-87, Cl. 363-56.000.
Torizuka, Hideki: *See*—
Hirai, Kenji; and Torizuka, Hideki. 4,648,129, Cl. 455-317.000.
Torizuka, Koichi; and Futaki, Kiyoshi, to Mitsubishi Paper Mills, Ltd. Negative type lithographic printing plate. 4,693,955, 9-15-87, Cl. 430-204.000.
Tork, Inc.: *See*—
Pitel, Ira J., 4,687,985, Cl. 323-323.000.
Torkelson, Arnold: *See*—
Evans, Edwin R.; and Torkelson, Arnold. 4,681,913, Cl. 524-862.000.
Torley, Jozsef: *See*—
Perjes, Istvan; Szporny, Laszlo; Selmeczi, Andras; Vereczkey, Laszlo; Klebovich, Imre; Toth, Edit; Hajos, Gyorgy; Torley, Jozsef; Simon, Ferenc; Sarkozy, Peter; and Misley, Attila. 4,659,712, Cl. 514-249.000.
Toth, Edit; Torley, Jozsef; Palosi, Eva; Szeberenyi, Szabolcs; Szporny, Laszlo; Gorog, Sandor; and Hajdu, Istvan. 4,645,774, Cl. 514-317.000.
Toth, Edit; Torley, Jozsef; Fekete, Gyorgy; Szporny, Laszlo; Vereczkey, Laszlo; Palosi, Eva; Klebovich, Imre; Vittay, Pal; Gorog, Sandor; and Hajdu, Istvan. 4,645,779, Cl. 514-648.000.
Torley, Lawrence W.: *See*—
Medwid, Jeffrey B.; Torley, Lawrence W.; and Tomcufcik, Andrew S., 4,686,220, Cl. 514-252.000.
Medwid, Jeffrey B.; and Torley, Lawrence W., 4,692,449, Cl. 514-254.000.
Tormala, Pertti; Rokkanen, Pentti; Kilpikari, Jvrki; Patiala, Hannu; Vainionpaa, Seppo; Vihtonen, Kimmo; and Mero, Matti, to Materials Consultants Oy. Bone fracture surgical device. 4,655,203, 4-7-87, Cl. 128-92.0YP.
Tormari, Makao; Toshimitsu, Takashi; and Jogo, Hiroyuki, to Nippon Magnetic Dressing Co., Ltd. Process for making a hardening agent for weak soil or sludge from steel making slag. 4,652,310, 3-24-87, Cl. 75-256.000.
Tormaschy, William R.: *See*—
Bleth, Joel J.; and Tormaschy, William R., 4,690,179, Cl. 141-1.000.
Tornare, Jean; Bofinger, Klaus; and Tschopp, Claudio. Pump for cryogenic fluids. 4,639,197, 1-27-87, Cl. 417-259.000.
Tornau, Johannes: *See*—
Nordsiek, Karl-Heinz; Wolpers, Jurgen; and Tornau, Johannes. 4,673,709, Cl. 525-99.000.
Tornay, Edmund, to Energy Transportation Group Inc. Tug/barge apparatus. 4,691,660, 9-8-87, Cl. 114-248.000.
Tornay, Edmund G. Vessel hull and bulkheads construction employing curved plating. 4,638,754, 1-27-87, Cl. 114-79.00R.
Tornberg, Kenneth W.: *See*—
McVey, George R.; Tornberg, Kenneth W.; Widell, Larry R.; and Wood, George E., 4,704,160, Cl. 71-92.000.
Tornblom, Bengt H. Method and apparatus for eddy current testing by at least two different frequency signals. 4,646,013, 2-24-87, Cl. 324-225.000.
Tornblom, Bengt H., to Tornbloms Kvalitetskontroll AB. Plural frequency eddy current method and apparatus with lift-off compensa-

tion for detecting faults in electrically conductive objects. 4,661,777, 4-28-87, Cl. 324-225.000.
Tornblom, Bengt H., to Tornbloms Kvalitetskontroll AB. Method and apparatus for compensating for different depths of sun currents induced in the object tested for imperfections. 4,703,265, 10-27-87, Cl. 324-232.000.
Tornbloms Kvalitetskontroll AB: *See*—
Tornblom, Bengt H., 4,661,777, Cl. 324-225.000.
Tornblom, Bengt H., 4,703,265, Cl. 324-232.000.
Tornell, Goran. Stirring member for liquid suspensions in sealed spray containers. 4,640,623, 2-3-87, Cl. 336-342.000.
Torneng, Eyvin: *See*—
Hansen, Helge; Nystrom, Borje; and Torneng, Eyvin, 4,657,759, Cl. 424-83.000.
Hansen, Helge; Nystrom, Borje; and Torneng, Eyvin, 4,668,455, Cl. 264-143.000.
Tornier, Alain. Coupling assembly for joining an implant tool to a bone implant. 4,677,972, 7-7-87, Cl. 128-92.00V.
Tornqvist, Erik G. M.: *See*—
Welborn, Howard C., Jr.; and Tornqvist, Erik G. M., 4,665,208, Cl. 556-179.000.
Tornstrom, Paul K.: *See*—
Hale, Ronald G.; Woodley, Thomas R.; and Tornstrom, Paul K., 4,642,200, Cl. 252-400.540.
Toro Company, The: *See*—
Bivens, Jon A.; and Tyler, Stephen L., 4,699,321, Cl. 239-204.000.
Cochran, Wilson V., 4,681,260, Cl. 239-240.000.
Comer, Robert C.; Hampel, Wilbur J.; and Rogers, Edward A., 4,694,528, Cl. 15-330.000.
Grizzle, Glen; Tyler, Stephen L.; and Walto, Joseph J., 4,634,052, Cl. 239-205.000.
Grundy, Michael J., 4,708,291, Cl. 239-242.000.
Lamusga, Gary R., 4,637,202, Cl. 56-16.600.
Thorud, Richard A.; and White, Donald M., III, 4,694,594, Cl. 37-244.000.
Walto, Joseph J., 4,682,732, Cl. 239-123.000.
Torobin, Leonard B. Hollow porous microspheres as substrates and containers for catalysts and method of making same. 4,637,990, 1-20-87, Cl. 502-10.000.
Torobin, Leonard B. Method for making hollow porous microspheres. 4,671,909, 6-9-87, Cl. 264-43.000.
Torok, Gabor P., and White, Andrew B., to American Telephone and Telegraph Company; and Bell Telephone Laboratories, Incorporated. Clock adjustment method and apparatus for synchronous data communications. 4,694,472, 9-15-87, Cl. 375-107.000.
Toronto Medical Corporation: *See*—
Saringer, John H., 4,637,379, Cl. 128-25.00R.
Saringer, John H., 4,665,900, Cl. 128-26.000.
Torosstan, Kevork A.; Markovitz, Mark; and Cox, Frederick E., to General Electric Company. Unique epoxy resin compositions and composite molded bodies filled therewith. 4,692,499, 9-8-87, Cl. 525-524.000.
Torpey, Peter A.; and Markham, Roger G., to Xerox Corporation. Thermal ink jet printhead. 4,638,337, 1-20-87, Cl. 346-140.00R.
Torr, Fred: *See*—
Adshead, Leslie T.; and Torr, Fred, 4,676,562, Cl. 439-38.000.
Torrano, Michael A., Jr.; Lyon, George E.; and Haddick, David H., to LogE/Dunn Instruments, Inc. Method and apparatus for photographing video images of either polarity without CRT brightness or contrast readjustment. 4,679,087, 7-7-87, Cl. 358-168.000.
Torras, Robert M., to Kut Kwick Corporation. Mower with impact resistant connection. 4,700,536, 10-20-87, Cl. 56-15.800.
Torre, Frank M.; and Courtien, John F., to Hazeltine Corporation. Intranetwork code division multiple access communication system. 4,644,560, 2-17-87, Cl. 375-1.000.
Torre, Frank M.; Crush, John F.; and Masak, Raymond J., to Hazeltine Corporation. Differential phase modulation. 4,706,261, 11-10-87, Cl. 375-27.000.
Torre, John J., to Allied Corporation. Article surveillance system receiver using synchronous demodulation and signal integration. 4,644,286, 2-17-87, Cl. 329-50.000.
Torre, John J., to Allied Corporation. Selector for AC magnetic inductive field receiver coils. 4,647,910, 3-3-87, Cl. 340-551.000.
Torre, John J., to Allied Corporation. Surveillance system including transmitter and receiver synchronized by power line zero crossings. 4,658,241, 4-14-87, Cl. 340-551.000.
Torre, John J., to Allied Corporation. Inductive magnetic field generator. 4,683,461, 7-28-87, Cl. 340-551.000.
Torre, John J.: *See*—
Anderson, Philip M.; and Torre, John J., 4,675,658, Cl. 340-551.000.
Torre, Rocco, to Magnaflux Corporation. Eddy current test system including a member of high permeability material effective to concentrate flux in a very small region of a part. 4,659,990, 4-21-87, Cl. 324-238.000.
Torremans, Joseph L. G.: *See*—
Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef F.; and Van Offenwert, Theophilus T. J. M., 4,634,704, Cl. 514-253.000.
Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef E.; and Van Offenwert, Theophilus T. J. M., 4,695,569, Cl. 514-258.000.
Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef F.; Torremans, Joseph L. G.; and Diels, Gaston S. M., 4,695,575, Cl. 514-322.000.
Torrence, Robert J., to Eaton Corporation. Inline solenoid operated slide valve. 4,638,973, 1-27-87, Cl. 251-129.020.
Torres, Abraham, to International Business Machines Corporation. Dual incrementor. 4,685,078, 8-4-87, Cl. 364-770.000.
Torres, Aldo A., to United States of America, Puerto Rico. Security window of the jalousie variety. 4,688,351, 8-25-87, Cl. 49-74.000.
Torres, John R.: *See*—
Vesce, Richard V.; and Torres, John R., 4,649,467, Cl. 363-41.000.
Torres, Jorge, to HR Textron Inc. Bypass reverse flow valve. 4,657,040, 4-14-87, Cl. 137-110.000.
Torres, Manuel. Reel stand. 4,706,905, 11-17-87, Cl. 242-68.400.
Torres, Ronald; Mayer, Edward; and Nelson, Steve, to Mattel, Inc. Reconfigurable toy. 4,696,656, 9-29-87, Cl. 446-376.000.
Torres, Ronald L., to Mattel, Inc. Animated figure toy. 4,655,725, 4-7-87, Cl. 446-246.000.
Torrington Company, The: *See*—
Alling, Richard L.; Shepard, Richard W.; Landrum, Clyde L.; Tofield, Robert H.; and Podhajecki, Stephen T., 4,677,720, Cl. 29-148.40C.
Cusati, Ward R., 4,664,643, Cl. 464-131.000.
Ebaugh, Roger L.; and Rhodes, Jerry P., 4,692,040, Cl. 384-484.000.
McLarty, Daniel R.; and Munson, John H., 4,657,412, Cl. 384-447.000.
Stella, Leo, 4,657,414, Cl. 384-548.000.
Tortella, Frank C.: *See*—
Musacchio, Jose M.; and Tortella, Frank C., 4,694,010, Cl. 514-304.000.
Tortelli, Vito: *See*—
Bargigia, Gianangelo; Tortelli, Vito; and Tonelli, Claudio, 4,654,448, Cl. 570-156.000.
Torterotot, Roland. Metering device, especially for foodstuffs, 4,666,067, 5-19-87, Cl. 222-262.000.
Torterotot, Roland. Process for the preparation and heat treatment of food products. 4,684,531, 8-4-87, Cl. 426-399.000.
Torti, Frank M.: *See*—
Larrick, James W.; Ringold, Gordon M.; Mark, David F.; Lin, Leo S.; and Torti, Frank M., 4,684,623, Cl. 514-12.000.
Tortorello, Anthony J.; and Higginbotham, Clark A., to DeSoto, Inc. Thermosetting fluorocarbon polymer coatings. 4,659,768, 4-21-87, Cl. 524-512.000.
Tortorello, Anthony J.; and Lukanich, Joseph D., to DeSoto, Inc. Amine-functional monoethylenic monomers, acrylic copolymers and aqueous coating compositions containing the same. 4,665,146, 5-12-87, Cl. 526-304.000.
Tortorello, Anthony J.; and Lukanich, Joseph D., to DeSoto, Inc. Amine-functional monoethylenic monomers, acrylic copolymers and aqueous coating compositions containing the same. 4,713,481, 12-15-87, Cl. 560-159.000.
Tortorici, Peter C. Boat davit for mounting on bulkheads. 4,699,075, 10-13-87, Cl. 114-230.000.
Tosa, Takafumi; Koga, Yoshihiro; and Matsuishi, Tsutomu, to Ajinomoto Co., Inc. Method for separating a basic amino acid. 4,691,054, 9-1-87, Cl. 562-554.000.
Tosaka, Akio; Hashiguchi, Koichi; Morita, Masahiko; and Okano, Shinobu, to Kawasaki Steel Corporation. Method and system for cooling strip. 4,709,557, 12-1-87, Cl. 62-373.000.
Tosaka, Hachiro; Yamaguchi, Kimitoshi; and Orihara, Motoi, to Ricoh Company, Ltd. Magnetic developer for developing latent electrostatic images. 4,670,368, 6-2-87, Cl. 430-106.600.
Tosaka, Yoichi; and Shimizu, Masami, to Canon Kabushiki Kaisha. Camera with operation switch. 4,710,008, 12-1-87, Cl. 354-289.100.
Tosaka, Yoichi: *See*—
Eguchi, Masaharu; Tosaka, Yoichi; Ohnuki, Ichiro; Aihara, Yoshihiko; and Ishizaki, Akira, 4,714,332, Cl. 354-21.000.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,679,925, Cl. 354-173.100.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,690,532, Cl. 354-173.110.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,697,899, Cl. 354-173.110.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,699,487, Cl. 354-173.100.
Kawamura, Masaharu; Harada, Yoshihito; Kobayashi, Ryuichi; Suzuki, Masayuki; Ohara, Tsunemasa; and Tosaka, Yoichi, 4,716,428, Cl. 354-173.110.
Ohara, Tsunemasa; Suzuki, Masayuki; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,671,635, Cl. 354-173.100.
Ohnuki, Ichiro; Aihara, Yoshihiko; Tosaka, Yoichi; and Eguchi, Masaharu, 4,693,574, Cl. 354-21.000.
Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,659,201, Cl. 354-152.000.
Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kobayashi, Ryuichi; Harada, Yoshihito; and Kawamura, Masaharu, 4,673,272, Cl. 354-173.110.
Suzuki, Masayuki; Ohara, Tsunemasa; Tosaka, Yoichi; Kawamura, Masaharu; Harada, Yoshihito; and Kobayashi, Ryuichi, 4,699,488, Cl. 354-173.110.
Tosaki, Satoshi: *See*—
Ohi, Nobukazu; Ohno, Koji; and Tosaki, Satoshi, 4,647,311, Cl. 106-35.000.
Tosbac Computer System Co., Ltd.: *See*—
Iwahashi, Hiroshi; Asano, Masamichi; and Narita, Akira, 4,692,834, Cl. 361-91.000.

Iwahashi, Hiroshi; Asano, Masamichi; Momodomi, Masaki; Minagawa, Hidenobu; Suzuki, Kazuto; and Narita, Akira, 4,697,101, Cl. 307-452.000.

Ushiki, Hiroshi; and Iwasaki, Tetsuaki, 4,701,748, Cl. 340-365.00S.

Toscano, Luciano, to Pierrel SpA. Process for the preparation of (8S)-8-fluoroerythromycins. 4,673,736, 6-16-87, Cl. 536-7.200.

Tosches, Anthony J., to Draper Corporation. Method and apparatus for controlling weft yarn in shuttleless looms. 4,649,966, 3-17-87, Cl. 139-450.000.

Toschi Produktions-Gesellschaft mbH: *See*—
Klauss, Heinrich; and Baarsch, Kurt, 4,673,538, Cl. 261-112.000.

Toseland, Bernard A.: *See*—
Carr, Richard V. C.; Toseland, Bernard A.; and Ross, David S., 4,642,396, Cl. 568-934.000.

Tosh, Douglas; and Flynn, Michael, to Sternson Limited. TBEA linked epoxy-urethanes. 4,705,841, 11-10-87, Cl. 528-59.000.

Toshiaki, Ishii, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for controlling an elevator. 4,681,190, 7-21-87, Cl. 187-101.000.

Toshiaki, Kato, to Fuji Electric Co., Ltd. Image sensors having alternating arrays of high and low sensitivity picture elements. 4,700,233, 10-13-87, Cl. 358-213.220.

Toshiba Audio Video Engineering Co., Ltd.: *See*—
Yanagida, Seiichi; Kiuchi, Takao; and Kasami, Hiroyuki, 4,654,729, Cl. 360-93.000.

Toshiba Automation Equipment Engineering, Ltd.: *See*—
Ando, Hideo; and Doi, Akihiko, 4,641,023, Cl. 250-216.000.

Toshiba Battery Co., Ltd.: *See*—
Hiratsuka, Kazuya; Sato, Yuichi; Aoki, Yoshiyasu; Yui, Hiroshi; Miyabayashi, Mitsutaka; and Itsubo, Akira, 4,702,977, Cl. 429-194.000.

Toshiba Ceramics Co., Ltd.: *See*—
Arakawa, Kazumi; Hirao, Toshiyuki; Sugiura, Kenji; Kuroki, Satoshi; Hiraki, Sei; Suzuki, Takao; and Nakai, Ken, 4,640,336, Cl. 164-440.000.
Ashino, Yoshihiro; Sugiura, Sadanobu; and Tokunaga, Kunishige, 4,691,844, Cl. 222-591.000.
Kato, Ichiro; and Suzuki, Sigekazu, 4,662,124, Cl. 51-283.00R.
Nishio, Takumi; and Katayose, Takahiro, 4,667,858, Cl. 222-591.000.
Tamamizu, Teruyasu; Sato, Kichihei; Tanaka, Takashi; and Sato, Shunkichi, 4,710,428, Cl. 428-408.000.
Watanabe, Kuniaki, 4,650,619, Cl. 264-25.000.
Watanabe, Kuniaki; and Suzuki, Hideo, 4,682,718, Cl. 222-591.000.
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, 4,670,320, Cl. 428-141.000.
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, 4,673,435, Cl. 75-235.000.

Toshiba Ceramics, Ltd.: *See*—
Fujimoto, Masashi; and Kato, Yoshihisa, 4,693,918, Cl. 428-35.000.

Toshiba Computer Engineering Corporation: *See*—
Kawakami, Chikahisa; and Suzuki, Tsuneo, 4,654,733, Cl. 360-99.000.

Toshiba Corporation: *See*—
Hattori, Sadao, 4,645,633, Cl. 376-179.000.

Toshiba Denzai Kabushiki Kaisha: *See*—
Aoike, Nanjou; Ide, Katsuyuki; Kobayashi, Hisao; and Hamaguchi, Mitsuhiro, 4,635,052, Cl. 340-811.000.

Toshiba Electronic Systems Co., Ltd.: *See*—
Odasima, Suzuo; Hida, Takao; and Mitamura, Mitsuru, 4,687,333, Cl. 356-382.000.

Toshiba Heating Appliances Co., Ltd.: *See*—
Kojima, Nobuyuki; Sekigawa, Youichi; and Kobiyama, Makoto, 4,653,464, Cl. 126-63.000.

Toshiba Kikai Kabushiki Kaisha: *See*—
Bannai, Saburo; and Kawashima, Kiyoshi, 4,674,053, Cl. 364-476.000.
Date, Takao; Okumura, Masaru; and Watanabe, Koya, 4,715,490, Cl. 198-346.100.
Fujita, Shigeru; Banzai, Hideo; and Tanaka, Hideo, 4,680,151, Cl. 264-40.300.
Fujita, Shigeru; Banzai, Hideo; and Takada, Makoto, 4,695,965, Cl. 364-518.000.
Hakata, Yoshitami; Wakuda, Masanori; and Suzuki, Kimio, 4,710,770, Cl. 340-870.180.
Iguchi, Katsuhiko; Nitta, Satoru; Wada, Hidemi; and Sano, Takayoshi, 4,704,083, Cl. 425-466.000.
Kumazaki, Hiroshi, 4,675,141, Cl. 264-40.300.
Miyazaki, Yoshihiko; Goto, Taizan; Komiyama, Yoshizo; and Iwata, Kotei, 4,641,603, Cl. 118-724.000.
Ozeki, Mamoru, 4,660,620, Cl. 164-457.000.
Sato, Mitsuharu; Adachi, Sakashi; Kimura, Izumi; and Sugiyama, Shigeo, 4,670,965, Cl. 29-568.000.
Sugiyama, Kiyoshi; and Furuhashi, Tomio, 4,637,118, Cl. 29-563.000.
Sugiyama, Kiyoshi; and Nakamura, Kotaro, 4,715,108, Cl. 29-568.000.
Suzuki, Yoshio, 4,692,836, Cl. 361-234.000.
Takanashi, Yukio, 4,645,445, Cl. 425-208.000.
Tokita, Masakazu, 4,641,252, Cl. 364-518.000.
Yamamoto, Harutoshi; and Sakomoto, Sadasue, 4,693,293, Cl. 164-99.000.

Toshiba Machine Co., Ltd.: *See*—
Kawakami, Hideo; Tazawa, Shinichi; Endo, Masami; and Kinoshita, Masaharu, 4,674,236, Cl. 51-325.000.
Koya, Hirokuni, 4,714,102, Cl. 164-457.000.
Odasima, Suzuo; Hida, Takao; and Mitamura, Mitsuru, 4,687,333, Cl. 356-382.000.
Suzuki, Akira, 4,714,933, Cl. 346-108.000.

Toshiba Micro-Computer Engineering Corp.: *See*—
Iwahashi, Hiroshi; Asano, Masamichi; Momodomi, Masaki; Minagawa, Hidenobu; Suzuki, Kazuto; and Narita, Akira, 4,697,101, Cl. 307-452.000.

Toshiba Monofrax Company, Ltd.: *See*—
Uchiya, Takao; and Kawashima, Haruo, 4,670,318, Cl. 428-102.000.

Toshiba Silicone Co., Ltd.: *See*—
Fujimoto, Tetsuo, 4,698,386, Cl. 524-862.000.
Hashimoto, Takatsugu; Maehara, Akihiro; Tomita, Seisuke; Funahashi, Yuichi; Watanabe, Junichiro; Sugiura, Kazuo; and Matsumoto, Hironori, 4,714,734, Cl. 524-496.000.
Kurita, Akitsugu; Maruyama, Kazou; Okusa, Akira; and Hayashi, Haruo, 4,656,221, Cl. 524-731.000.
Sato, Norio, 4,701,503, Cl. 525-478.000.
Sumida, Heiji; and Kimura, Hiroshi, 4,652,618, Cl. 525-478.000.
Watanabe, Junichiro; Funahashi, Yuichi; Sugiura, Kazuo; and Matsumoto, Hironori, 4,640,968, Cl. 528-32.000.
Watanabe, Junichiro; Funahashi, Yuichi; Sugiura, Kazuo; and Matsumoto, Hironori, 4,657,965, Cl. 524-506.000.
Zenbayashi, Michio; and Sato, Noria, 4,649,208, Cl. 556-413.000.

Toshiba Tungaloy Co., Ltd.: *See*—
Fukuhara, Mikio; and Mitsuda, Tetsuya, 4,702,769, Cl. 75-233.000.
Ikezaki, Yasuo; Matsuoka, Tadashi; and Mitani, Kazuyuki, 4,712,334, Cl. 51-262.00A.
Noh, Akihiko; Sato, Shinichi; Kakuda, Itsusuke; and Kanno, Shigeyuki, 4,701,994, Cl. 29-568.000.
Yokota, Yuzo; and Endo, Atsushi, 4,687,388, Cl. 408-230.000.

Toshiharu, Sasaki: *See*—
Yoshihito, Urata; Toshiharu, Sasaki; Yoshihiro, Yokoyama; and Yoichi, Sekine, 4,647,177, Cl. 355-3.0BE.

Toshiichi, Sugiyama. Weeder for removing weeds having various lengths. 4,648,463, 3-10-87, Cl. 171-61.000.

Toshikuni, Masami; Suzuki, Kazunori; and Yoshida, Norie, to JGC Corporation. Method of treating radioactive waste water resulting from decontamination. 4,693,833, 9-15-87, Cl. 210-759.000.

Toshimitsu, Hiroyuki: *See*—
Shikamori, Tamotsu; Toshimitsu, Hiroyuki; Ohsugi, Hiroshi; Hiyama, Isao; and Fukuzawa, Soichi, 4,691,538, Cl. 68-12.00R.

Toshimitsu, Kenshi; and Kohayakawa, Hiromasa, to Kabushiki Kaisha Toshiba. Image forming apparatus having means for preventing damage to a photosensitive member. 4,711,555, 12-8-87, Cl. 355-14.00R.

Toshimitsu, Takashi: *See*—
Tormari, Makao; Toshimitsu, Takashi; and Jogo, Hiroyuki, 4,652,310, Cl. 75-256.000.

Toshin Technical Co., Ltd.: *See*—
Shimizu, Yasuhiro, 4,653,391, Cl. 99-349.000.

Toshioka, Saiji: *See*—
Endo, Yasuhisa; Mizuhara, Shuhei; Murakami, Satoshi; Beppu, Osamu; and Toshioka, Saiji, 4,704,997, Cl. 123-198.0DB.

Toshitsugu, Kitayama, to Kyoei Co., Ltd. Apple case for use in preserving apples. 4,636,392, 1-13-87, Cl. 426-110.000.

Toshiyasu, Masayuki; and Kawahara, Toshinari, to Mitsubishi Denki Kabushiki Kaisha. Display device. 4,634,930, 1-6-87, Cl. 315-8.000.

Toshiyasu, Masayuki; and Kawahara, Toshinari, to Mitsubishi Denki Kabushiki Kaisha. Display device. 4,677,344, 6-30-87, Cl. 315-85.000.

Toshiyuki Hamaoka Daiichi Seiyaku Co., Ltd.: *See*—
Hamaoka, Toshiyuki; Fujiwara, Hiromi; and Kusama, Tsuneo, 4,681,856, Cl. 536-53.000.

Tosi, Bruno: *See*—
Sisti, Giorgio; Italiano, Pietro; Riva, Ermete; and Tosi, Bruno, 4,644,779, Cl. 73-38.000.

Tosill, John M.: *See*—
Potter, Charles; Bell, Ronald F.; and Tosill, John M., 4,715,517, Cl. 222-181.000.

Toska Co., Ltd.: *See*—
Kato, Masami, 4,636,347, Cl. 264-251.000.
Kato, Masami; and Ueno, Hideyuki, 4,660,718, Cl. 206-343.000.
Nishino, Hiroshi; and Okabe, Kazuo, 4,714,569, Cl. 252-511.000.

Toso Company, Limited: *See*—
Fukada, Hiroo, 4,675,939, Cl. 16-87.200.

Tossounian, Jacques L.: *See*—
Mergens, William J.; Newmark, Harold L.; Sheth, Prabhakar R.; and Tossounian, Jacques L., 4,681,756, Cl. 424-451.000.

Tossutto, Jean F.; and Bricaud, Herve, to Socapex. Integrated circuit test clip. 4,683,425, 7-28-87, Cl. 324-158.00F.

Tosswill, Christopher H., to Galileo Electro-Optics Corp. Image-storage microchannel device with gating means for selective ion feedback. 4,636,629, 1-13-87, Cl. 250-213.0VT.

Tosswill, Christopher H., to Galileo Electro-Optics Corp. Middle-infrared imaging device. 4,701,618, 10-20-87, Cl. 250-330.000.

Tosswill, Christopher H., to Galileo Electro-Optics Corp. Higher frequency microchannel plate. 4,714,861, 12-22-87, Cl. 315-117.000.

Tosto, Roger J., to Tie/Communications, Inc. Telephone line hold and hold release apparatus. 4,674,118, 6-16-87, Cl. 379-393.000.

Tot-Safe, Inc.: *See*—
Zimmerman, Donald A., 4,666,017, Cl. 182-3.000.

Total Compagnie Francaise des Petroles: *See*—
Blommaert, Paul A. G., 4,633,708, Cl. 73-59.000.
Grosjean, Yves H., 4,648,268, Cl. 73-152.000.
Helderle, Paul M.; and Raimond, Michel, 4,651,827, Cl. 166-317.000.

Herve, Jean-Luc; Jouanneau, Jean-Francois; Kristensen, Ivar G.; and Haugen, Finn, 4,648,419, Cl. 137-245.500.
Herve, Jean-Luc, 4,699,350, Cl. 251-1.300.
Lecoffre, Yves; and Woillez, Jacques, 4,702,837, Cl. 210-512.300.
Puisais, Xavier; Hamon, Jean-Pierre; Jegousse, Michel; and Kaluszynski, Michel, 4,644,132, Cl. 219-158.000.
Puisais, Xavier F.; Hamon, Jean-Pierre; Jegousse, Michel; and Kaluszynski, Michel, 4,638,142, Cl. 219-121.0EC.
Puisais, Xavier F.; Hamon, Jean-Pierre; Jegousse, Michel J.; and Kaluszynski, Michel, 4,638,984, Cl. 269-43.000.
Puisais, Xavier F.; Hamon, Jean-Pierre; Jegousse, Michel; and Kaluszynski, Michel, 4,648,544, Cl. 228-44.500.
Roca, Yves; Rousset, Jacky; Bouchut, Pierre; Leblanc, Marie-Christine; and Baffreau, Daniel, 4,681,634, Cl. 106-90.000.

Total Containment International, Inc.: *See*—
Butts, Nicholas E., 4,672,366, Cl. 340-605.000.

Total Engineering and Research Company: *See*—
Reinkemeyer, Leo R., 4,664,778, Cl. 208-113.000.

Total, Robert V.; to Oscar Mayer Foods Corporation. Stack handling method and apparatus. 4,648,237, 3-10-87, Cl. 53-473.000.

Total, Robert V.: *See*—
Mally, Timothy G.; Hartl, Carroll P.; Orloff, Daniel L.; and Total, Robert V., 4,645,400, Cl. 414-28.000.

Totani, Tatuo, to Toyoko Kagaku Co., Ltd. Fluid coupling having high sealability. 4,660,868, 4-28-87, Cl. 285-354.000.

Totani, Tetsushi; Shirators, Osamu; Aono, Katsutoshi; and Uchida, Naomi, to Shionogi & Co., Ltd. Platinum complexes. 4,658,048, 4-14-87, Cl. 556-137.000.

Totaro, Giuseppe. Screening tool and process using the tool for a mouth cavity in dental operations. 4,664,628, 5-12-87, Cl. 433-136.000.

Tote-Cart Company: *See*—
Mills, Frank, 4,682,782, Cl. 280-33.99B.

Toter, Kimberly A. M. Gastric drainage system. 4,642,105, 2-10-87, Cl. 604-323.000.

'totes', Incorporated: *See*—
Okuda, Toshio, 4,633,894, Cl. 135-34.000.
Okuda, Toshio, 4,658,845, Cl. 135-36.0RT.

Toth, Alexander. Air-swing ball game. 4,685,674, 8-11-87, Cl. 273-430.000.

Toth Aluminum Corporation: *See*—
Bergman, Lee H., 4,710,369, Cl. 423-625.000.
Wyndham, Ronald; Chaplin, Gervaise M.; and Swanson, William M., 4,695,436, Cl. 423-135.000.

Toth, Andras: *See*—
Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavlicsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.
Harsanyi, Jozsef; Kiss, Zoltan; Kukonya, Ferenc; Pinter, Janos; Suri, Alajos; and Toth, Andras, 4,657,668, Cl. 209-158.000.

Toth, Arpad: *See*—
Erzsebet, Almasine B.; Almasi, Istvan; Toth, Arpad; Benke, Istvan; and Bajkay, Arpad, 4,674,900, Cl. 374-131.000.

Toth, Bertalan: *See*—
Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.
Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.

Toth, Edit; Torley, Jozsef; Palosi, Eva; Szeberenyi, Szabolcs; Szporny, Laszlo; Gorog, Sandor; and Hajdu, Istvan, to Richter Gedeon Vegyeszeti Gyar Rt. Aminoethoxybenzylalcohol derivatives, process for their preparation and pharmaceutical compositions containing them. 4,645,774, 2-24-87, Cl. 514-317.000.

Toth, Edit; Torley, Jozsef; Fekete, Gyorgy; Szporny, Laszlo; Vereczkey, Laszlo; Palosi, Eva; Klebovich, Imre; Vittay, Pal; Gorog, Sandor; and Hajdu, Istvan, to Richter Gedeon Vegyeszeti Gyar Rt. Dialkylaminoalkoxybenzylalcohol derivatives, process for their preparation and pharmaceutical compositions containing them. 4,645,779, 2-24-87, Cl. 514-648.000.

Toth, Edit: *See*—
Perjes, Istvan; Szporny, Laszlo; Selmeczi, Andras; Vereczkey, Laszlo; Klebovich, Imre; Toth, Edit; Hajos, Gyorgy; Torley, Jozsef; Simon, Ferenc; Sarkozy, Peter; and Misley, Attila, 4,659,712, Cl. 514-249.000.

Toth, Francis C.: *See*—
Dvorak, Antonin J.; and Toth, Francis C., 4,661,739, Cl. 313-333.000.

Toth, George: *See*—
Hoehn, Frederick C.; and Toth, George, 4,657,225, Cl. 254-93.0HP.

Toth, James E.: *See*—
Elsenbaumer, Ronald L.; Miller, Granville G.; and Toth, James E., 4,640,006, Cl. 29-623.100.
Shacklette, Lawrence W.; Jow, Taiguang R.; Toth, James E.; and Maxfield, MacRae, 4,668,596, Cl. 429-194.000.
Shacklette, Lawrence W.; Toth, James E.; and Elsenbaumer, Ronald L., 4,695,521, Cl. 429-194.000.

Toth, James M.; and Harris, Richard M., to LTV Steel Company, Inc. Method and apparatus for examining a workpiece. 4,644,271, 2-17-87, Cl. 324-238.000.

Toth, James M.: *See*—
Harris, Richard M.; Valek, David A.; Toth, James M.; and Abramczyk, Richard F., 4,673,879, Cl. 324-240.000.

Toth, Jeno; Szeles, Jozsef; and Egenhoffer, Otto, to Alkoto Ifjusag Egyesules. Anti-freeze composition suitable for making surfaces free of snow and ice. 4,676,918, 6-30-87, Cl. 252-70.000.

Toth, Jerome E.: *See*—
Ernst, Donald M.; and Toth, Jerome E., 4,683,940, Cl. 165-32.000.

Toth, John E.; and Hempfling, Ronald L., to Cubic Western Data. Safe locking mechanism. 4,648,327, 3-10-87, Cl. 109-57.000.

Toth, John F.: *See*—
Sa, Norbert; Miccioli, William F.; Chinchillo, A. Robert; and Toth, John F., 4,700,193, Cl. 342-427.000.

Toth, Kalman: *See*—
Nagy, Istvan; Nagy, Ferenc; Pozsgai, Istvan; Karatson, Laszlo; Gabori, Andor; Toth, Kalman; and Zubreitzky, Jeno, 4,691,495, Cl. 52-125.100.

Toth, Klara: *See*—
Pungor, Erno; Toth, Klara; Pal, Ferenc; Eros, Bela; Nagy, Jozsef; and Bihatsi, Laszlo, 4,634,982, Cl. 324-448.000.

Toth, Klara S.: *See*—
Pungor, Erno; Toth, Klara S.; Feher, Zsofia; Nagy, Geza; and Horvai, Gyorgy, 4,673,295, Cl. 356-440.000.

Toth, Michael L.: *See*—
Wilt, Michael C.; Utts, Bradley K.; and Toth, Michael L., 4,658,141, Cl. 250-361.00R.

Toth, Miklos; Endresz, Valeria; Beladi, Ilona; and Toth, Sandor, to EGYT Gyogyszervegyeszeti Gyar. Process for the preparation of human leukocyte and human gamma interferon. 4,696,899, 9-29-87, Cl. 435-68.000.

Toth, Oszkar: *See*—
Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavlicsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.

Toth, Robert L., Jr.: *See*—
Gasowski, Chester J.; Loeffler, Ronald L.; Musteric, Joseph T.; Springford, Richard H.; and Toth, Robert L., Jr., 4,635,696, Cl. 152-528.000.

Toth, Sandor: *See*—
Toth, Miklos; Endresz, Valeria; Beladi, Ilona; and Toth, Sandor, 4,696,899, Cl. 435-68.000.

Toth, Vincent A.: *See*—
Kasner, William H.; Bruck, Gerald J.; Miller, Richard A.; and Toth, Vincent A., 4,694,136, Cl. 219-121.0LD.

Toth, Zoltan: *See*—
Bezzegh, Denes; Fekete, Pal; Toth, Zoltan; Bor, Ilona; and Fellner, Erzsebet, 4,647,599, Cl. 523-105.000.

Toti, Andrew J. Structural beam and panel systems and methods and apparatus for making the same. 4,713,924, 12-22-87, Cl. 52-731.000.

Toti, Daniela: *See*—
Scarponi, Ugo; Lazzarini, Anna M.; Toti, Daniela; and de Castiglione, Roberto, 4,716,228, Cl. 540-578.000.

Totino, Rocco A.: *See*—
Chang, Ping W.; Gruetzmacher, Gordon D.; Meltz, Clifford N.; and Totino, Rocco A., 4,708,974, Cl. 523-130.000.

Toto, Gregory M.: *See*—
Antoszewski, Richard S.; Falise, F. Ronald; Sciulli, Francis J.; and Toto, Gregory M., 4,670,974, Cl. 29-701.000.

Toto Ltd.: *See*—
Ikenaga, Takao; Shigematsu, Toshifumi; Hamanaka, Tatsumi; and Hirahara, Manabu, 4,667,350, Cl. 4-304.000.
Ogura, Kenji; and Yamazaki, Takeshi, 4,636,474, Cl. 435-291.000.
Taki, Masaru; Okada, Hiroshi; Kawamura, Seijiro; Kusumoto, Akio; Morita, Koji; Ikenaga, Takao; Shigematsu, Toshifumi; and Iida, Masami, 4,692,951, Cl. 4-664.000.
Tsutsui, Osamu; Kuwahara, Hidehiko; and Yasuda, Hirohiko, 4,653,538, Cl. 137-625.460.

Toto, Takayuki: *See*—
Rokkaku, Tadashi; Houzouji, Akira; Omori, Shunji; and Toto, Takayuki, 4,702,652, Cl. 409-84.000.

Totoki, Takao: *See*—
Seike, Shoji; Totoki, Takao; and Kaneko, Akio, 4,689,445, Cl. 174-212.000.

Totsuka, Hidehiko: *See*—
Nagoshi, Toshiharu; Totsuka, Hidehiko; Taira, Takeshi; Gotoh, Youkichi; and Senuma, Kazuya, 4,645,249, Cl. 293-102.000.

Totsuka, Masao, to Canon Kabushiki Kaisha. Contact exposure apparatus. 4,651,009, 3-17-87, Cl. 250-442.100.

Totsuka, Masao; and Suzuki, Akiyoshi, to Canon Kabushiki Kaisha. Aligning apparatus. 4,659,228, 4-21-87, Cl. 356-401.000.

Totsuka, Motoyuki: *See*—
Nara, Toshio; Hobo, Sumiya; Kashiwada, Masao; Totsuka, Motoyuki; Hoshiai, Takao; Umetani, Katsutoshi; Akamatsu, Keisuke; Inada, Tomohide; and Takayama, Hisao, 4,639,220, Cl. 433-69.000.

Totsune, Atsushi: *See*—
Goto, Hiroshi; Kikuchi, Akira; Hibino, Yoshitaka; Totsune, Atsushi; Kurihara, Norimitsu; Hosaka, Takefumi; and Kijima, Takeshi, 4,661,760, Cl. 322-27.000.
Noguchi, Kunio; Totsune, Atsushi; Kajita, Koji; and Hosaka, Takefumi, 4,681,078, Cl. 123-490.000.

Tomen, Roger W., to Industrial Automation Corporation. Inline bottle rinser with quick bottle size changeover capability. 4,635,662, 1-13-87, Cl. 134-68.000.

Tottori, Takeshi: *See*—
Inagoya, Osamu; Fujiwara, Hideo; Tottori, Takeshi; Yamano, Minoru; Kumasaka, Noriyuki; Otomo, Shigekazu; Kudo, Mitsuhiro; Morikawa, Jutti; Ishihara, Kiyoshi; Usui, Akira; and Hayashi, Masashi, 4,701,819, Cl. 360-122.000.

Tottori, Takumi: Oki, Kenji; Ooyama, Kazuo; and Mizushima, Toshio, to Honda Giken Kogyo Kabushiki Kaisha. Two-cycle engine. 4,714,056, 12-22-87, Cl. 123-65.0PE.

Tottori University: *See*—
Sato, Toru; Okazaki, Naoto; and Fujii, Katsumasa, 4,681,099, Cl. 128-204.230.
Sato, Toru; Okazaki, Naoto; Hasegawa, Toshihisa; Fujii, Katsumasa; and Takano, Kazukiyo, 4,686,974, Cl. 128-204.230.

Totty, Charles D., to Halliburton Company. Electrical energy package and method of assembly. 4,675,259, 6-23-87, Cl. 429-157.000.

Totty, Kenneth D.: *See*—
Murphey, Joseph R.; Totty, Kenneth D.; and Fulton, Susan V., 4,665,988, Cl. 166-295.000.

Tou, Jacob S.; and Vineyard, Billy D., to Monsanto Company. Process for the preparation of α-L-aspartyl-L-phenylalanine methyl ester. 4,677,220, 6-30-87, Cl. 560-40.000.

Toub, Melvin R.; and Finney, Donald L., to General Electric Company. Iodine resistant silicone rubber compositions. 4,660,956, 2-3-87, Cl. 524-779.000.

Touboul, Pierre L.: *See*—
Bernard, Alain M.; Canny, Jean-Paul L.; and Touboul, Pierre L., 4,688,141, Cl. 361-233.000.

Touda, Takayasu: *See*—
Mikita, Muneharu; Tanioku, Shozo; and Touda, Takayasu, 4,654,393, Cl. 526-240.000.
Mikita, Muneharu; Tanioku, Shozo; and Touda, Takayasu, 4,703,067, Cl. 521-63.000.

Touhalisky, John: *See*—
Derkacs, Thomas; and Touhalisky, John, 4,660,419, Cl. 73-622.000.

Touhsaent, Robert E.: *See*—
Liu, Leland L.; and Touhsaent, Robert E., 4,695,503, Cl. 428-207.000.

Toukan, Sameeh S., to Pennwalt Corporation. Polymers and lubricant additives of alkylene dithiothiadiazoles and alkylene cyanodithioimidocarbonates. 4,678,592, 7-7-87, Cl. 252-25.000.

Toukola, Risto: Ventilation and heat exchanging system for premises housing animals, in particular for poultry farming. 4,671,350, 6-9-87, Cl. 165-54.000.

Toulemonde, Francis: *See*—
Vairel, Edmond G.; Brouty-Boye, Huguette; Toulemonde, Francis; and Doutremepuich, Christian, 4,687,765, Cl. 514-56.000.

Toulmay, Francois V., to Societe Nationale Industrielle et Aerospatiale. Plume diluter diverter assembly for a turbine engine of a heavier than air machine. 4,662,174, 5-5-87, Cl. 60-264.000.

Toulouse, Charles P., to Lake Center Industries. Vacuum switch. 4,716,264, 12-29-87, Cl. 200-61.860.

Toumayan, Burton B.; and Christians, Scott T., to Motorola, Inc. Non-volatile memory storage system. 4,651,307, 3-17-87, Cl. 365-228.000.

Toumayan, Burton B., to Motorola, Inc. Incremental count display system. 4,685,116, 8-4-87, Cl. 377-51.000.

Tour & Andersson AB: *See*—
Hammarstedt, Curt, 4,715,579, Cl. 251-121.000.
Petitjean, Robert; and Eriksson, Bo G., 4,679,729, Cl. 237-8.00R.
Strand, Rolf E.; and Persson, Per-Lennart, 4,667,875, Cl. 236-46.00R.

Touret, Jean-Pierre: *See*—
Rouleau, Alain; Rouleau, Patrick; and Touret, Jean-Pierre, 4,635,918, Cl. 271-183.000.

Tourisme Hotellerie Ltd.: *See*—
Sauer, Claude; Burger, Raymond; Reguigne, Gabriel; and Kern, Mark, 4,690,874, Cl. 428-537.100.

Tournere, Marcel J.: *See*—
Debeneix, Pierre; and Tournere, Marcel J., 4,638,631, Cl. 60-226.300.

Tourneux, Etienne: *See*—
Gal, Jean-Yves; Chiapello, Jean-Michel; Peyrot, Martial; and Tourneux, Etienne, 4,713,156, Cl. 204-182.400.

Tournier, Jean-Louis, to Compagnie Generale des Etablissements Michelin. Material intended to form a joint between two bodies on the outside of their interface; methods of producing assemblies with such material; assemblies thus obtained. 4,634,488, 1-6-87, Cl. 156-285.000.

Tournier-Lasserve, Jacques: *See*—
Gongora, Henri; and Tournier-Lasserve, Jacques, 4,699,736, Cl. 260-543.00R.

Tourret, Alain P., to Aciers et Outillage Peugeot. Winding mandrel especially for a safety strap. 4,693,432, 9-15-87, Cl. 242-74.000.

Touryan, Kenell J.: *See*—
Hill, Gilman A.; Passamaneck, Richard S.; and Touryan, Kenell J., 4,633,951, Cl. 166-308.000.
Hill, Gilman A.; Passamaneck, Richard S.; and Touryan, Kenell J., 4,683,943, Cl. 166-63.000.

Tousek, Emil J.: *See*—
Kovit, Sheldon L.; Tousek, Emil J.; and Douglas, Larry D., 4,707,041, Cl. 439-131.000.

Toussaint, Hans-Norbert: *See*—
Fink, Ludwig; and Toussaint, Hans-Norbert, 4,678,265, Cl. 350-96.200.

Toussant, John W.; and Blaney, Ted L., to Procter & Gamble Co., The. Absorbent article having reservoirs. 4,681,579, 7-21-87, Cl. 604-385.00R.

Toussant, John W.; and Hasse, Margaret H., to Procter & Gamble Company, The. Disposable diaper having an improved side closure. 4,699,622, 10-13-87, Cl. 604-389.000.

Toutant, Edward E.: *See*—
Halter, Edward Arnold; Purcell, Billy D.; and Toutant, Edward E., 4,636,098, Cl. 400-208.000.
Purcell, Billy D.; and Toutant, Edward E., 4,650,356, Cl. 400-208.000.

Toutant, Roy T.: *See*—
Parker, Preston K.; and Toutant, Roy T., 4,715,286, Cl. 104-88.000.

Touyer, Gaetan: *See*—
Jouquey, Alain; Salmon, Jean; Mouren, Michel; and Touyer, Gaetan, 4,639,336, Cl. 260-397.500.

Touzin, Philippe: *See*—
Picciotto, Robert; Ramel, Francois; Rousseau, Alain; and Touzin, Philippe, 4,687,268, Cl. 439-55.000.

Tovaglaro, Constantino, to Magnaghi Oleodinamica S.p.A. Gas-oil pressure accumulator. 4,714,094, 12-22-87, Cl. 138-31.000.

Tovarny Strojirenske Techniky Koncern: *See*—
Bis, Josef; and Petrzelka, Antonin, 4,709,434, Cl. 12-77.000.
Petrzelka, Antonin; and Pseja, Rudolf, 4,649,585, Cl. 12-17.200.

Tovey, Geoffrey D., to Smith Kline & French Laboratories Limited. Pharmaceutical dosage unit. 4,647,448, 3-3-87, Cl. 424-467.000.

Tovey, Stuart J., to Schlumberger Electronics (U.K.) Limited. Brazing eutectic and method. 4,714,189, 12-22-87, Cl. 228-122.000.

Towa Yakuhin Kabushiki Kaisha: *See*—
Fukui, Yoshio; Yamato, Masatoshi; Umeda, Naoki; and Kawasaki, Masahiro, 4,647,412, Cl. 260-410.600.

Towae, Friedrich: *See*—
Merger, Franz; and Towae, Friedrich, 4,695,645, Cl. 560-24.000.
Merger, Franz; and Towae, Friedrich, 4,713,476, Cl. 560-115.000.

Towart, Robertson: *See*—
Wehinger, Egbert; and Towart, Robertson, 4,680,305, Cl. 514-347.000.

Towatari, Yoshishige; and Akoh, Tetsuo, to TDK Corporation. Dielectric resonator and method for making. 4,668,925, 5-26-87, Cl. 333-219.000.

Tower, John R., to RCA Corporation. Charge-coupled-device parallel-to-serial converter. 4,647,977, 3-3-87, Cl. 358-213.000.

Tower Manufacturing Corporation: *See*—
Rao, Chepur P.; and Barrena, Juan J., 4,652,706, Cl. 200-67.00D.

Tower, Stephen N.; Braun, Howard E.; Boyle, David E.; and Salton, Robert B., to Westinghouse Electric Corp. Gas displacement spectral shift reactor and control method. 4,693,862, 9-15-87, Cl. 376-209.000.

Tower, Stephen N.; and Schulz, Terry L., to Westinghouse Electric Corp. Nuclear reactor with passive safety system. 4,702,879, 10-27-87, Cl. 376-282.000.

Tower, Stephen N.: *See*—
Veronesi, Luciano; Tower, Stephen N.; and Klassen, William E., 4,708,842, Cl. 376-203.000.

Tower, Steven A.: *See*—
Scherer, Jeremy D.; and Tower, Steven A., 4,649,229, Cl. 174-52.0FP.

Towery, Donald R., to Burlington Industries, Inc. Thickening of water coagulable solvent coating solutions. 4,707,400, 11-17-87, Cl. 428-260.000.

Towes, Peter: *See*—
Meisen, Klaus; and Towes, Peter, 4,712,472, Cl. 100-37.000.

Towler, Dwight A.: *See*—
Adams, Steven P.; Towler, Dwight A.; and Glaser, Luis, 4,709,012, Cl. 530-328.000.

Towlson, Howard E., to General Electric Company. Low cost tooling replication technique. 4,696,722, 9-29-87, Cl. 204-6.000.

Town, Allen W. Waterproof glove. 4,679,257, 7-14-87, Cl. 2-164.000.

Town, Michael H.: *See*—
Skuballa, Werner; Raduchel, Bernd; Schwarz, Norbert; Vorbruggen, Helmut; Casals-Stenzel, Jorge; Schillinger, Ekkehard; and Town, Michael H., 4,708,963, Cl. 514-530.000.

Town Talk, Inc.: *See*—
Meyer, Eugene F., 4,691,389, Cl. 2-195.000.

Towne, Clinton G.; and Stanley, Thomas R., to Teepak, Inc. Methods and apparatus for perforating food casing film and casing produced thereby. 4,635,316, 1-13-87, Cl. 17-1.00R.

Towner, David K.; and Campbell, David K., to Hewlett-Packard Company. Focusing and tracking apparatus for an optical data storage device. 4,688,201, 8-18-87, Cl. 369-44.000.

Towner, Geoffrey F.; and Carter, Charles A., to Texaust Australia Limited. Packing tube assembly for pumping wells. 4,694,910, 9-22-87, Cl. 166-379.000.

Towns, Edward J.; Brown, Edward M.; and Lester, William M., to TBL Development Corporation. Closure and rotatable liner. 4,673,096, 6-16-87, Cl. 215-230.000.

Towns, Edward J.; Brown, Edward M.; and Lester, William M., to TBL Development Corporation. Pressure-indicative container closure. 4,674,642, 6-23-87, Cl. 215-230.000.

Towns, Edward J.; and Brown, Edward M., to TBL Development Corporation. Anti-panelling container closure. 4,685,580, 8-11-87, Cl. 215-260.000.

Towns, Edward J.; and Brown, Edward M., to TBL Development Corporation. Break-away container closure. 4,697,714, 10-6-87, Cl. 215-252.000.

Towns, Edward J.: *See*—
Chamberlin, Edward B.; Brown, Edward M.; and Towns, Edward J., 4,697,993, Cl. 417-514.000.
Proctor, John D.; Towns, Edward J.; and Brown, Edward M., 4,694,968, Cl. 215-224.000.

Townsend, Blue H. Shoe tabs for chains. 4,698,921, 10-13-87, Cl. 36-62.000.

Townsend, Bruce L.: *See*—
Ellis, John G.; Townsend, Bruce L.; and Strawczynski, Leo, 4,648,108, Cl. 379-202.000.

Townsend, David E.; Frye, Diane R.; Greene, Tammie B.; and Perfetti, Thomas A., to R. J. Reynolds Tobacco Company. Cigarette rods having segmented sections. 4,700,726, 10-20-87, Cl. 131-364.000.

Townsend, Dwight: *See*—
Duncan, Wooten E.; and Townsend, Dwight, 4,669,183, Cl. 29-623.100.

Townsend Engineering Company: *See*—
Townsend, Ray T., 4,670,942, Cl. 17-33.000.
Townsend, Ray T., 4,670,943, Cl. 17-50.000.
Townsend, Ray T., 4,694,536, Cl. 17-37.000.
Townsend, Ray T.; Smith, David W.; and Dykes, Robert M., 4,709,447, Cl. 17-1.00F.

Townsend, Garnold: *See*—
Hagar, Donald K.; Kennedy, Curtis V.; and Townsend, Garnold, 4,673,026, Cl. 165-9.000.

Townsend, Greg M.; and DiPrizio, Giuseppe M., to Motorola Inc. Fast power-fail detector for power supplies with energy hysteresis. 4,713,553, 12-15-87, Cl. 307-64.000.

Townsend, James H., Jr.: *See*—
Blackmer, David E.; and Townsend, James H., Jr., 4,680,796, Cl. 381-23.000.
Blackmer, David E.; and Townsend, James H., Jr., 4,706,287, Cl. 351-17.000.

Townsend, Michael G.: *See*—
Ashelman, Robert U., Jr.; Townsend, Michael G.; and Lawrence, Mark C., 4,635,465, Cl. 72-448.000.

Townsend, Paul: *See*—
O'Connor, Stuart; Bell, Donald; Fox, Trevor R.; and Townsend, Paul, 4,716,408, Cl. 340-825.500.

Townsend, Ray T.; Smith, David W.; and Dykes, Robert M. Method and apparatus for encasing a product. 4,660,255, 4-28-87, Cl. 17-49.000.

Townsend, Ray T., to Townsend Engineering Company. Chuck for meat encasing machine. 4,670,942, 6-9-87, Cl. 17-33.000.

Townsend, Ray T., to Townsend Engineering Company. Method and means of skinning meat. 4,670,943, 6-9-87, Cl. 17-50.000.

Townsend, Ray T., to Townsend Engineering Company. Compound pump mechanism for meat encasing machines and the like. 4,694,536, 9-22-87, Cl. 17-37.000.

Townsend, Ray T.; Smith, David W.; and Dykes, Robert M., to Townsend Engineering Company. Encased product and method and apparatus for encasing same. 4,709,447, 12-1-87, Cl. 17-1.00F.

Townsend, Robert R.: *See*—
Caruso, Peter J.; and Townsend, Robert R., 4,636,761, Cl. 335-140.000.

Townsend, Robert W., to Sante Fe Braun Inc. Minimizing coke buildup in transfer line heat exchangers. 4,703,793, 11-3-87, Cl. 165-1.000.

Townsend, Steven C.: *See*—
Schau, Howard, III; and Townsend, Steven C., 4,665,645, Cl. 47-25.000.

Townsend, Warren E.: *See*—
Hendricks, Daniel A.; and Townsend, Warren E., 4,653,309, Cl. 72-391.000.

Townsley, Peter A., to Omni Concepts, Inc. Golfer's aid apparatus and method of use thereof. 4,655,451, 4-7-87, Cl. 273-32.00H.

Toy, Arthur D. F.: *See*—
Shim, Kyung S.; Toy, Arthur D. F.; and Heather, James B., 4,634,771, Cl. 546-286.000.

Toy, Edmond: *See*—
Blauschild, Robert A.; and Toy, Edmond, 4,677,315, Cl. 307-350.000.

Toy, Lester T.; and Magay, Daniel, to Raychem Corporation. Heat activatable sealing piston. 4,687,280, 8-18-87, Cl. 439-874.000.

Toy, Lester T.: *See*—
Nyberg, David D.; Chang, Rong J.; and Toy, Lester T., 4,656,070, Cl. 428-36.000.
Versteegh, Willem M.; Toy, Lester T.; and Holland, Christine, 4,634,615, Cl. 428-36.000.

Toy, Wing N.: *See*—
Larson, Mikiel L.; Robrock, Anne A.; and Toy, Wing N., 4,646,287, Cl. 370-60.000.
Ransom, Maurice N.; and Toy, Wing N., 4,701,906, Cl. 370-60.000.

Toya, Akihiro; Kagawa, Junichi; Yokota, Kazunori; and Mori, Hiroaki, to NGK Spark Plug Co., Ltd. Electrode structure for a spark plug. 4,659,960, 4-21-87, Cl. 313-141.000.

Toya, Ichizo; Mihara, Yuji; and Takei, Haruo, to Fuji Photo Film Co., Ltd. Direct positive silver halide photographic emulsion. 4,634,653, 1-6-87, Cl. 430-217.000.

Toya Soda Manufacturing Co., Ltd.: *See*—
Arai, Shoji; Tamano, Yutaka; and Hasegawa, Masazumi, 4,638,016, Cl. 521-129.000.

Toya, Tomohiro; Hara, Hajime; Iida, Shigeki; and Satoh, Tetsuo, to Nippon Oil Company, Ltd. Cholesteric liquid crystal copolyesters. 4,698,397, 10-6-87, Cl. 525-437.000.

Toya, Tomohiro: *See*—
Orii, Shingo; Hara, Hajime; Satoh, Tetsuo; Toya, Tomohiro; and Iida, Shigeki, 4,652,626, Cl. 528-194.000.

Toyama, Akio; Matsumoto, Shuso; and Tada, Kazunori, to Mutoh Industry Ltd. Automatic drafting machine having air blower means for holding paper down. 4,646,109, 2-24-87, Cl. 346-134.000.

Toyama, Akio: *See*—
Kajikawa, Osamu; and Toyama, Akio, 4,654,675, Cl. 346-134.000.

Toyama, Akiyoshi: *See*—
Komatsu, Fumito; Toyama, Akiyoshi; Oguchi, Yuzo; and Iwanami, Kiyoharu, 4,648,001, Cl. 360-133.000.

Toyama Chemical Co., Ltd.: *See*—
Hirai, Shiro; Hirano, Hiroshi; Arai, Hirotoshi; Kiba, Yasuo; Shibata, Hisanari; Kusayanagi, Yoshikazu; Yotsuji, Minako; Hashiba, Kazuhiko; and Tanada, Kikuko, 4,643,849, Cl. 540-955.000.
Hori, Takako; Myokan, Isao; and Miyabara, Shinji, 4,684,631, Cl. 514-51.000.
Kuzuya, Fumio; and Endo, Hidetoshi, 4,713,376, Cl. 514-78.000.
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.
Sadaki, Hiroshi; Imaizumi, Hiroyuki; Takeda, Kenji; Iruba, Takihiro; Takeno, Ryuko; Morita, Seishi; Kajita, Tetsuya; and Saikawa, Isamu, 4,667,040, Cl. 548-195.000.
Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, 4,704,459, Cl. 546-123.000.
Watanabe, Isao; Momonoi, Kaishu; Hiraiwa, Toru; Ono, Satoshi; Nakano, Joji; Nagumo, Katsuyuki; and Takagi, Hiroyasu, 4,713,387, Cl. 514-332.000.

Toyama Gakki Seizo K.K.: *See*—
Ono, Hirotaka, 4,669,351, Cl. 84-380.00R.

Toyama Industry Co., Ltd.: *See*—
Ohno, Shoji; and Sugada, Sigeru, 4,636,427, Cl. 428-246.000.

Toyama, Jhumichi: *See*—
Yoshimura, Hironori; and Toyama, Jhumichi, 4,636,252, Cl. 75-238.000.

Toyama, Ketichiro; Kodera, Masao; and Sasaki, Kunihiko, to Nippon Soken, Inc. Ultrasonic transducer. 4,636,997, 1-13-87, Cl. 367-140.000.

Toyama, Kenji: *See*—
Kojima, Koichi; Jujo, Akihiro; Okabayashi, Masanori; Shimatani, Ryoichi; Toyama, Kenji; and Kanzaki, Nobuyoshi, 4,681,672, Cl. 204-129.400.

Toyama, Koji; and Shimizu, Hideo, to Mitsubishi Paper Mills, Ltd. Direct image offset printing plates. 4,686,138, 8-11-87, Cl. 428-323.000.

Toyama, Masaaki: *See*—
Taniguchi, Kayoko; Tsuchiya, Hideki; and Toyama, Masaaki, 4,676,645, Cl. 356-356.000.

Toyama, Masamichi; Kaneda, Naoya; and Fujibayashi, Kazuo, to Canon Kabushiki Kaisha. Distance measuring device. 4,682,886, 7-28-87, Cl. 356-1.000.

Toyama, Masamichi; and Kozuki, Susumu, to Canon Kabushiki Kaisha. Focus adjusting device. 4,694,149, 9-15-87, Cl. 250-201.000.

Toyama, Minoru: *See*—
Ichikawa, Hiroyuki; Nishi, Hisami; and Toyama, Minoru, 4,643,535, Cl. 350-413.000.
Ichikawa, Hiroyuki; and Toyama, Minoru, 4,693,565, Cl. 350-413.000.
Nishi, Hisami; and Toyama, Minoru, 4,668,053, Cl. 350-413.000.
Nishi, Hisami; and Toyama, Minoru, 4,668,055, Cl. 350-432.000.

Toyama, Noboru: *See*—
Yamawaki, Seiichi; Obuchi, Tomoki; Toyama, Noboru; and Shogen, Kazuyoshi, 4,673,905, Cl. 333-239.000.

Toyama, Nobuo. Recorders. 4,700,606, 10-20-87, Cl. 84-380.00C.

Toyama, Osamu: *See*—
Nakamura, Hiroshi; Toyama, Osamu; and Kanii, Norikazu, 4,637,774, Cl. 414-735.000.

Toyama Prefecture: *See*—
Tanino, Katsumi; Kiuchi, Norihiro; Tominaga, Chikara; Itoh, Eiji; Ogino, Kiyoshi; Yahagi, Masataka; and Sakamoto, Masaru, 4,656,455, Cl. 338-35.000.

Toyama, Sumio: *See*—
Kikuchi, Masafumi; Onodera, Toshio; Toyama, Sumio; and Sakamoto, Hiroshi, 4,679,091, Cl. 358-242.000.

Toyama, Tadao; Kobayashi, Kesanao; Koike, Mitsuru; and Tamoto, Koji, to Fuji Photo Film Co., Ltd. Light-sensitive planographic printing plate with layer of diazo resin containing photopolymerizable composition. 4,687,727, 8-18-87, Cl. 430-175.000.

Toyama, Tadao: *See*—
Nagano, Teruo; Toyama, Tadao; and Nagashima, Akira, 4,701,399, Cl. 430-179.000.

Toyama, Takahumi: *See*—
Yahagi, Masakichi; Horiuchi, Shoichi; Toyama, Takahumi; Kashiwagi, Akio; Suzuki, Teruo; Igaki, Tetsuo; Horisawa, Kazuyuki; and Shoji, Mituhiro, 4,677,203, Cl. 546-15.000.

Toyama, Takashi; Ohno, Masashi; Ishii, Kiminori; Yamamoto, Shosaku; and Kakinuma, Kazuo, to Nippon Oil and Fats Co., Ltd.; and Nissan

Motor Co., Ltd. Method for finish coating on polyurethane formed articles. 4,707,381, 11-17-87, Cl. 427-407.100.
Toyama, Takashi: *See*—
Watanabe, Toshiro; Ohzeki, Minoru; and Toyama, Takashi, 4,646,143, Cl. 358-60.000.
Toyama, Tsuyoshi: *See*—
Yamamoto, Makoto; Toyama, Tsuyoshi; Harima, Hirokazu; and Ando, Ryo, 4,651,186, Cl. 357-23.800.
Toyne, Kenneth J.: *See*—
Balkwill, Peter H.; Bishop, David I.; Pearson, Andrew D.; Sage, Ian C.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and McDonnell, Damien G., 4,695,131, Cl. 350-350.00R.
Fearon, Julie E.; Smith, Wendy E.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and Weber, Georg, 4,659,502, Cl. 252-299.610.
Kam Ming Chan, Lawrence; Gray, George W.; Toyne, Kenneth J.; Lacey, David; Eidenschink, Rudolf; and Romer, Michael, 4,696,549, Cl. 350-350.00R.
Toyo Boseki Kabushiki Kaisha: *See*—
Akiyama, Takashi; Hotta, Yasunari; and Oda, Naonobu, 4,701,372, Cl. 428-323.000.
Endoh, Seiji; Kimura, Kunio; Ohta, Toshihiko; and Kato, Yasuo, 4,673,724, Cl. 528-206.000.
Fujii, Tsuguo; Yamamoto, Katsumasa; Aratani, Tetsuo; and Uegaki, Yoshinori, 4,663,431, Cl. 528-388.000.
Fujimura, Toshiaki; Katoh, Yoshio; Imahashi, Satos'ii; Seto, Koichi; and Tanaka, Shinichi, 4,699,859, Cl. 430-18.000.
Furusawa, Hironobu; and Taika, Tadao, 4,670,498, Cl. 524-381.000.
Inukai, Chyuji; Chino, Eizi; Tojima, Yoshio; Komagata, Hideki; and Nakamura, Masanori, 4,666,784, Cl. 428-425.900.
Kobashi, Toshiyuki; and Takao, Seiji, 4,658,004, Cl. 526-341.000.
Kobashi, Toshiyuki; and Takao, Seiji, 4,659,529, Cl. 264-182.000.
Kobayashi, Takuma; Kitagawa, Hironobu; and Kobayashi, Shigeo, 4,670,510, Cl. 325-89.000.
Kobayashi, Takuma; Kitagawa, Hironobu; Kaneshige, Noritsugu, and Makimura, Osamu, 4,680,345, Cl. 525-437.000.
Konagaya, Shigeji; Watanabe, Osamu; Kuzumoto, Hideshi; Tokai, Masaya; Narusawa, Haruhiko; and Kato, Yasuo, 4,695,383, Cl. 210-500.370.
Kurita, Kazuo; and Ishihara, Hideaki, 4,701,377, Cl. 428-364.000.
Kuze, Katsuaki; Nishino, Yasuhiro; Matsuyama, Yujiro; Maeda, Kozo; Kobayashi, Masahiro; Okudaira, Tadashi; Hongo, Tsuyoshi; and Makimura, Osamu, 4,693,932, Cl. 428-323.000.
Miyagi, Morio; Ohno, Makoto; and Kanaizumi, Masaru, 4,681,713, Cl. 264-41.000.
Morita, Ichiro; Taika, Tadao; and Nakamura, Hidenaro, 4,694,049, Cl. 525-440.000.
Ohmori, Susumu; Yagi, Akira; and Takase, Satoshi, 4,652,282, Cl. 55-155.000.
Ohta, Toshihiko; and Okada, Fujio, 4,668,577, Cl. 428-364.000.
Okada, Fujio; and Ohta, Toshihiko, 4,643,865, Cl. 264-288.400.
Sakata, Kazuhiko; and Miyake, Hideo, 4,666,756, Cl. 428-202.000.
Wakamiya, Sukeyoshi; Takeuchi, Naokazu; Hama, Yoshihisa; Akashi, Tatsu; and Shimura, Tatsuo, 4,666,394, Cl. 425-342.100.
Watanabe, Haruo; Mitsuhida, Noboru; Andoh, Makoto; and Matsumoto, Hakuji, 4,647,532, Cl. 435-28.000.
Toyo Cci Kabushiki Kaisha: *See*—
Fujinuma, Katsumi; Takase, Tsuneyoshi; and Hayashi, Yoriyuki, 4,677,976, Cl. 128-201.250.
Toyo Chemical Co., Ltd.: *See*—
Ueda, Koutarou; Hasegawa, Noboru; Machihara, Akio; Kusaka, Masaharu; Orii, Kohei; and Noguchi, Yoshiro, 4,692,197, Cl. 156-189.000.
Toyo Cloth Co., Ltd.: *See*—
Ito, Hajime; and Miwa, Junichi, 4,708,891, Cl. 427-245.000.
Toyo Communication Equipment Co., Ltd.: *See*—
Matsuno, Tatsuji, 4,638,242, Cl. 324-51.000.
Toyo Communication Equipment Co. Ltd: *See*—
Hirama, Koichi; Miyazawa, Yuji; and Kotake, Haruhiko, 4,703,657, Cl. 73-702.000.
Toyo Construction Co., Ltd.: *See*—
Shiba, Toyoaki; Goto, Seiichi; and Ito, Keishi, 4,702,024, Cl. 37-67.000.
Toyo Contact Lens Co., Ltd.: *See*—
Miyajima, Nobuyuki; Hata, Kenji; and Nakayama, Junichi, 4,710,313, Cl. 252-105.000.
Yoshikawa, Toshiharu; and Shibata, Takanori, 4,649,184, Cl. 526-279.000.
Toyo Denki Seizo Kabushiki Kaisha: *See*—
Muraoka, Kimihiro, 4,654,679, Cl. 357-22.000.
Toyo Denki Seizo Kabushiki Kaisha and Komatsu Ltd.: *See*—
Takei, Hidetoshi; and Minami, Teruo, 4,694,125, Cl. 191-87.000.
Toyo Engineering Corporation: *See*—
Matsubara, Tetsuyuki; Ito, Norifumi; Iwamoto, Mune; and Ando, Toshihiko, 4,699,976, Cl. 528-501.000.
Natto, Akio; Uozu, Hirohisa; and Numaguchi, Toru, 4,714,593, Cl. 422-197.000.
Saida, Toyoyasu; Sunagawa, Takahisa; Yamakawa, Tsuneo; Ohta, Norima; and Obara, Keishi, 4,686,068, Cl. 252-632.000.
Zanma, Jun; Nishimura, Yoshinori; Shyoji, Kazuo; Shimagaki, Makoto; and Nakajima, Yoichi, 4,714,592, Cl. 422-192.000.
Toyo Hakka Kogyo Kabushiki Kaisha: *See*—
Sakata, Isao; Nakajima, Susumu; Koshimuzi, Koichi; Samejima, Natsuki; Inohara, Kazumi; and Takata, Hiroyuki, 4,709,022, Cl. 540-145.000.
Toyo Ink Mfg. Co., Ltd.: *See*—
Ito, Masashi; Ohashi, Toshio; and Ui, Katsumi, 4,639,271, Cl. 106-243.000.
Katsura, Hiromitsu; Ehashi, Shigeyuki; Kashioka, Motohiko; and Sakamoto, Makoto, 4,664,714, Cl. 106-308.00N.
Ohtsuki, Akira; Konno, Ryozo; Kanno, Nobumori; Sugai, Makio; Mihoya, Takashi; Kubota, Yuichi; Nishimatsu, Masahara; Isobe, Yukihiro; Tanaka, Kazushi; and Shinoura, Osamu, 4,708,909, Cl. 428-425.900.
Tanaka, Tsuneo; Yoshitomi, Tetsuro; Hanada, Koji; Ohashi, Mashato; and Hikosaka, Michichika, 4,708,903, Cl. 428-195.000.
Toyo Jozo Company, Ltd.: *See*—
Matsumura, Takafumi; and Morishita, Masataka, 4,696,822, Cl. 424-490.000.
Morishita, Masataka; Ono, Masaru; and Sumita, Yukio, 4,716,153, Cl. 514-30.000.
Toyo Jozo Kabushiki Kaisha: *See*—
Fujiwara, Tatsuro; Ohta, Kazuyo; and Hirano, Takao, 4,652,638, Cl. 536-7.100.
Fujiwara, Tatsuro; Ohta, Kazuyo; Honda, Eiichi; Hirano, Tasao; and Sakakibara, Hideo, 4,661,588, Cl. 536-7.100.
Ishikawa, Hidehiko; Matsuura, Kazuo; and Misaki, Hideo, 4,683,198, Cl. 435-22.000.
Matsumoto, Kunio; Kagimoto, Yoshitaka; Hirata, Tsutomu; Watanabe, Susumu; Ohtsuka, Akira; and Takahashi, Kiyoharu, 4,675,290, Cl. 435-24.000.
Matsumoto, Kunio; and Hirata, Tsutomu, 4,681,841, Cl. 435-18.000.
Misaki, Hideo, 4,693,971, Cl. 435-17.000.
Morita, Kaoru; Katsuragi, Shigeo; and Noda, Toshiharu, 4,656,250, Cl. 530-324.000.
Toyo Kasei Kogyo Kabushiki Kaisha: *See*—
Ono, Susumu; and Kawata, Mitsuru, 4,647,329, Cl. 156-245.000.
Toyo Lint Free Co., Ltd.: *See*—
Tanaka, Norito, 4,677,696, Cl. 2-84.000.
Toyo Machinary & Metal Co., Ltd.: *See*—
Taniguchi, Yoshiya, 4,695,238, Cl. 425-145.000.
Toyo Machinery Co., Ltd.: *See*—
Iwata, Kazuyoshi; and Fujii, Kazuo, 4,648,209, Cl. 51-90.000.
Toyo Menka Kaisha, Ltd.: *See*—
Takeuchi, Toshio, 4,709,985, Cl. 350-96.250.
Toyo Rubber Industry Co., Ltd., The: *See*—
Miyoshi, Shoji; and Nomura, Ryuichi, 4,715,418, Cl. 152-451.000.
Umemoto, Sumio; Hattori, Eiichi; and Kamakari, Ryutaro, 4,639,384, Cl. 427-290.000.
Toyo Seikan Kaisha, Ltd.: *See*—
Hirota, Kazumi; and Fujiwara, Tamio, 4,650,088, Cl. 220-270.000.
Ikushima, Fumio; Itoh, Senji; and Kogashiwa, Kiyomori, 4,692,132, Cl. 493-103.000.
Kato, Nobuyuki; and Kobayashi, Akira, 4,701,295, Cl. 264-519.000.
Kitamura, Yoichi; and Hotta, Hisashi, 4,650,700, Cl. 427-255.600.
Kitamura, Yoichi; Togo, Yoshiro; and Akae, Yoshiteru, 4,652,715, Cl. 219-64.000.
Kitamura, Yoichi; Hotta, Hisashi; and Kodaira, Toshimasa, 4,701,354, Cl. 427-255.600.
Machii, Akihiko; Ikegami, Hiroo; Ishinabe, Masao; Imazu, Katsuhiro; and Ueno, Hiroshi, 4,692,810, Cl. 358-256.000.
Maruhashi, Yoshitsugu; Tanikawa, Isao; and Hirata, Sadao, 4,699,809, Cl. 427-230.000.
Maruhashi, Yoshitsugu; Tanikawa, Isao; and Hirata, Sadao, 4,714,580, Cl. 264-516.000.
Matsubayashi, Hiroshi; Hirota, Kazumi; Iwamoto, Hisao; Fujiwara, Tamio; Sato, Nobuyuki; and Katsura, Tadahiko, 4,686,152, Cl. 428-607.000.
Matsuno, Kenji; Yasumuro, Hisakazu; Taira, Kazuo; Imatani, Tsuneo; and Toyoshima, Makoto, 4,685,989, Cl. 156-244.130.
Matsuo, Junichi; Sakano, Kozaburo; and Takeda, Isamu, 4,700,871, Cl. 222-107.000.
Nohara, Shigezo, 4,646,925, Cl. 215-1.00C.
Nohara, Shigezo; Sugimoto, Takeshi; Sakano, Kozaburo; Ohkubo, Yoshimichi; and Matsuo, Junichi, 4,649,004, Cl. 264-85.000.
Ochiai, Toshio; Tsujimura, Akio; and Tsukiyasu, Hiroshi, 4,710,091, Cl. 414-623.000.
Taira, Kazuo; Morofuji, Akihiko; Kobayashi, Seishichi; and Ueno, Hiroshi, 4,683,263, Cl. 525-57.000.
Takeda, Hiroshi; Oshima, Noritsugu; Kubo, Tateo; and Sakaguchi, Kenichi, 4,640,673, Cl. 425-297.000.
Toyoshima, Makoto; and Kawamukai, Kikuo, 4,675,496, Cl. 219-121.0LD.
Yamada, Muneki; and Sakamoto, Akira, 4,675,219, Cl. 428-35.000.
Yamamoto, Osamu; and Yamada, Muneki, 4,649,013, Cl. 264-318.000.
Yazaki, Jinichi; and Sakano, Kozaburo, 4,687,689, Cl. 428-35.000.
Toyo Seimaiki Seisakusho Kabushiki Kaisha: *See*—
Saika, Nobuo, 4,699,274, Cl. 209-587.000.
Saika, Nobuo, 4,715,487, Cl. 193-2.00R.
Toyo Soda Manufacturing Co., Ltd.: *See*—
Arika, Junji; Miyazaki, Hiroshi; Igawa, Kazushige; and Itabashi, Keiji, 4,650,654, Cl. 423-328.000.
Arika, Junji; Miyazaki, Hiroshi; Itabashi, Keiji; and Aimoto, Michiyuki, 4,664,898, Cl. 423-329.000.
Arika, Junji; Igawa, Kazushige; and Itabashi, Keiji, 4,687,653, Cl. 423-329.000.
Asahi, Tetsuya; Kaneko, Hiroshi; Sakai, Yasushi; Kiyohara, Akio; and Iwashita, Tooru, 4,680,349, Cl. 526-62.000.
Fukuda, Mitsutoshi; Fukutomi, Makoto; Kogure, Osamu; and Miyoshi, Kazunori, 4,690,887, Cl. 430-331.000.

Harada, Tuneo; and Oyama, Kiyotaka, 4,704,471, Cl. 562-443.000.
Hasegawa, Masazumi; Arai, Shoji; and Mizoe, Shinya, 4,701,473, Cl. 521-118.000.
Kasai, Kiyoshi; Tsukidate, Takaaki; and Arakawa, Toshihiko, 4,716,028, Cl. 423-344.000.
Koyama, Kenji; and Ohno, Shotaro, 4,690,754, Cl. 210-94.000.
Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; Kondo, Kiyosi; Akimoto, Akira; Seita, Toru; and Watanabe, Hiroyuki, 4,659,744, Cl. 521-32.000.
Matsui, Kiyohide; Kikuchi, Yoshiyuki; Hiyama, Tamejiro; Tobita, Etsuko; and Kondo, Kiyoshi, 4,661,231, Cl. 204-252.000.
Matsumoto, Yoshihiro; Kubota, Yoshitaka; Tsukuma, Koji; and Tsukidate, Takaaki, 4,666,467, Cl. 51-309.000.
Misaki, Akira; Sone, Yoshiaki; and Kato, Takao, 4,639,516, Cl. 536-123.000.
Miyazaki, Hiroshi; Arika, Junji; and Aimoto, Michiyuki, 4,678,651, Cl. 423-329.000.
Mori, Takashi; Fukuda, Kenichi; and Kurauchi, Yasuhiro, 4,707,234, Cl. 204-182.300.
Morinaka, Hideo; Nakanishi, Akira; and Nonaka, Yuji, 4,668,831, Cl. 568-779.000.
Murakami, Tsugio; and Kawamoto, Taizo, 4,650,906, Cl. 564-498.000.
Nakagawa, Tatsushi; Narui, Mamoru; and Sakanaka, Yasuhiro, 4,663,356, Cl. 525-344.000.
Nakatani, Masaki; and Hiraga, Yoichi, 4,637,922, Cl. 423-321.00R.
Ohkura, Yosuke, 4,705,757, Cl. 436-172.000.
Okuzono, Shuichi; Tanaka, Tetsuo; Oda, Yasuhiro; Shintani, Takashi; and Emura, Noriaki, 4,713,083, Cl. 3-557.000.
Sakai, Yasushi; Tanaka, Koji; Saito, Michio; and Kiyohara, Akio, 4,684,711, Cl. 528-86.000.
Sakanaka, Yasuhiro; and Okuzono, Shuichi, 4,639,508, Cl. 528-486.000.
Seita, Toru; Satoh, Takao; and Kikuchi, Mitsuo, 4,693,796, Cl. 204-98.000.
Tokunaga, Kuniyuki; and Hashimoto, Tsutomu, 4,686,269, Cl. 526-336.000.
Tsukuma, Koji; and Tsukidate, Takaaki, 4,690,910, Cl. 501-103.000.
Tsuzuki, Kenji; and Uotani, Takeshi, 4,695,644, Cl. 558-249.000.

Toyo Special Metallic Industry Co., Ltd.: *See*—
Wada, Iwao, 4,653,152, Cl. 19-114.000.

Toyo Suisan Kikai Co. Ltd.: *See*—
Matsubayashi, Kaneo, 4,637,094, Cl. 17-1.00G.

Toyo Tire & Rubber Co., Ltd.: *See*—
Makibayashi, Katsunori; Murase, Kenji; and Kunihiro, Motoo, 4,706,947, Cl. 267-140.100.
Matsuno, Yutaka; Hatanaka, Yasunori; Shimizu, Hirokazu; Ishigaki, Masahiro; Harada, Hiroshi; Kawada, Michihiro; and Wakita, Yasukuni, 4,673,188, Cl. 277-212.0FB.
Mitsutake, Katsuharu, 4,697,627, Cl. 152-209.00R.

Toyoda Bohshoki Kabushiki Kaisha: *See*—
Inada, Yasuo; Sato, Koki; Fujii, Takazo; Yokoyama, Hideo; Takahashi, Shoichi; Mizutani, Kiyoshi; Kawashima, Takayoshi; and Nagawa, Akira, 4,664,333, Cl. 242-107.40A.

Toyoda Cesei Co., Ltd.: *See*—
Hyodo, Yoichi; and Harata, Mitsuru, 4,648,164, Cl. 29-159.00B.

Toyoda, Eiji; and Hayashi, Soichiro, to Kabushiki Kaisha Toshiba. Superconducting system and method for controlling the same. 4,713,722, 12-15-87, Cl. 361-141.000.

Toyoda Gosei Co., Ltd.: *See*—
Hara, Noboru; and Sugiyama, Syogo, 4,660,988, Cl. 366-137.000.
Hayashi, Keizo; Hasegawa, Hitoshi; and Suhara, Katsuhiro, 4,708,633, Cl. 425-574.000.
Hayashi, Ken-ichi; Hirozawa, Kunikazu; and Kotaki, Masahiro, 4,646,208, Cl. 362-80.000.
Hirano, Atsuo; Hiramitsu, Tetsushi; and Ohno, Satoshi, 4,702,705, Cl. 439-15.000.
Hongo, Suzuaki; Niwa, Minoru; Hashiba, Takahiro; Harata, Mitsuru; Hirata, Ichiro; Ito, Isamu; and Sonobe, Akihiko, 4,709,944, Cl. 280-777.000.
Inui, Shuji; and Sano, Yoshio, 4,714,806, Cl. 200-61.550.
Ishikawa, Masanobu; Nishikawa, Masumi; Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo, 4,698,838, Cl. 379-58.000.
Ito, Keizo; and Murota, Syoji, 4,653,385, Cl. 98-40.240.
Ito, Toshiyasu; Mori, Takaaki; Minoura, Jun; and Shimada, Junichi, 4,664,934, Cl. 427-38.000.
Iwasa, Tadanobu; and Yokoi, Hiroshi, 4,686,122, Cl. 427-388.300.
Kai, Toru; and Kato, Kouichi, 4,678,421, Cl. 425-159.000.
Kasugai, Joji; and Yamamoto, Masami, 4,666,056, Cl. 220-203.000.
Kisanuki, Hisayuki, 4,704,820, Cl. 49-441.000.
Kobayashi, Teruo; and Uchida, Sadao, 4,640,150, Cl. 74-552.000.
Koizumi, Junji; Sasaki, Kouji; and Naito, Junichiro, 4,707,528, Cl. 525-432.000.
Kurita, Toshinori; and Nagamatsu, Hidetoshi, 4,699,584, Cl. 425-450.100.
Mabuchi, Akira; and Jinushi, Shinji, 4,708,894, Cl. 428-31.000.
Maeno, Kunio; and Kisanuki, Hisayuki, 4,678,696, Cl. 428-122.000.
Manabe, Katsuhide; and Ogisu, Yasuhiko, 4,668,479, Cl. 422-186.050.
Miyazaki, Takeshi; and Sugiyama, Kenji, 4,650,223, Cl. 285-158.000.
Miyazaki, Takeshi, 4,671,545, Cl. 285-334.500.
Murachi, Tatsuya, 4,654,257, Cl. 428-317.100.
Murachi, Tatsuya, 4,668,565, Cl. 428-261.000.
Murachi, Tatsuya, 4,671,974, Cl. 428-31.000.
Murakawa, Shoji, 4,686,750, Cl. 29-34.00R.
Nishida, Kouji; Hayashi, Chikahisa; and Kanai, Makoto, 4,647,722, Cl. 379-63.000.
Noda, Kazushi; Komatsu, Moriyuki; and Mitsunaga, Hiroshi, 4,640,340, Cl. 165-41.000.
Okamoto, Harutaka; Ichioka, Tetsumi; and Kato, Takashi, 4,652,036, Cl. 296-1.00S.
Okumoto, Tadaoki; Nakata, Rikizo; Ichikawa, Masayoshi; Tsuchihashi, Masaaki; and Sakai, Koichi, 4,645,788, Cl. 524-308.000.
Ono, Satoshi; Hiramitsu, Tetsushi; and Hirano, Atsuo, 4,667,529, Cl. 74-492.000.
Ozawa, Isao; Ito, Noboru; Takizawa, Masaaki; Ohta, Yoshio; and Ijichi, Kiyoteru, 4,635,910, Cl. 267-140.100.
Sakamoto, Fujio, 4,709,967, Cl. 301-37.00P.
Sasaki, Kouji; and Koizumi, Junji, 4,661,563, Cl. 525-179.000.
Shibasaki, Jun, 4,648,207, Cl. 49-441.000.
Shigeki, Kiyoshi; and Nakajima, Takao, 4,676,856, Cl. 156-201.000.
Sugita, Hiroshi; Yasukawa, Takemasa; and Aritake, Masanori, 4,658,463, Cl. 15-250.360.
Takimoto, Masahiro; Takeuchi, Junji; and Yamazaki, Yoshio, 4,713,419, Cl. 525-211.000.
Uchida, Sadao; and Harata, Mitsuru, 4,657,121, Cl. 188-376.000.
Ukai, Mikio; and Okumoto, Ryouji, 4,693,484, Cl. 277-212.0FB.
Ukai, Mikio; and Okumoto, Ryoji, 4,702,483, Cl. 277-212.0FB.
Yagishita, Shigeru; Hosoya, Kiyoshi; Okumoto, Tadaoki; and Sugimoto, Masatoshi, 4,650,834, Cl. 525-386.000.
Yamazaki, Yoshio; and Takimoto, Masahiro, 4,654,238, Cl. 428-31.000.
Yasukawa, Takemasa; Sugita, Hiroshi; Aritake, Masanori; and Hayashi, Keizo, 4,669,144, Cl. 15-250.360.

Toyoda Gosei Co., Ltd: *See*—
Midooka, Masanori; Kubo, Takashi; Fujikawa, Atsunobu; and Motoda, Masanori, 4,708,351, Cl. 277-184.000.

Toyoda Goseki Co., Ltd.: *See*—
Sugita, Hiroshi; Iwasa, Tadanobu; Yasukawa, Takemasa; and Aritake, Masanori, 4,638,525, Cl. 15-250.360.

Toyoda, Hidekazu: *See*—
Ueda, Haruhiko; Toyoda, Hidekazu; and Fukuda, Minoru, 4,657,901, Cl. 514-171.000.

Toyoda, Hideo: *See*—
Watanabe, Koji; Watanabe, Mitsuo; Toyoda, Naoki; Toyoda, Hideo; Kumano, Toshio; and Hiramoto, Michiaki, 4,667,481, Cl. 62-235.000.

Toyoda, Hidetoshi; and Koishi, Masaru, to Honda Giken Kogyo Kabushiki Kaisha. Parking brake arrangement for vehicles. 4,667,785, 5-26-87, Cl. 192-13.00A.

Toyoda, Hitoshi: *See*—
Kanayama, Tatsuya; Yamanaka, Yutaka; Toyoda, Hitoshi; Tanaka, Akihiko; and Shinogaya, Toshikazu, 4,647,495, Cl. 428-246.000.

Toyoda Jidoshokki Seisakusho: *See*—
Futamura, Kenichiro; and Ohtsu, Keiichiro, 4,683,804, Cl. 92-71.000.

Toyoda, Katsuyoshi; and Murai, Takashi, to Mitsubishi Denki Kabushiki Kaisha. Cryogenic vessel. 4,713,941, 12-22-87, Cl. 62-50.000.

Toyoda, Kazuo: *See*—
Ootsuka, Ryotatsu; Tanimoto, Shigemi; and Toyoda, Kazuo, 4,670,050, Cl. 75-68.00R.

Toyoda, Keiji; and Suma, Sei, to Kabushiki Kaisha Toshiba. Air conditioner with a radiant temperature control. 4,697,430, 10-6-87, Cl. 62-209.000.

Toyoda, Kenichi; Miyashita, Hideo; Sakakibara, Shinsuke; and Naruo, Hatsumi, to Fanuc Ltd. Absolute position detecting system for servo-control system. 4,647,827, 3-3-87, Cl. 318-592.000.

Toyoda, Kenichi; Sakakibara, Shinsuke; and Ishikawa, Haruyuki, to Funuc Ltd. Zero-point return method. 4,680,520, 7-14-87, Cl. 318-594.000.

Toyoda, Kenichi; Sakakibara, Shinsuke; Mizuno, Tooru; and Hara, Ryuichi, to Fanuc Ltd. Industrial robot circular arc control method for controlling the angle of a tool. 4,698,777, 10-6-87, Cl. 364-513.000.

Toyoda, Kenichi: *See*—
Nakashima, Seiichiro; Toyoda, Kenichi; Torii, Nobutoshi; and Nihei, Ryo, 4,637,773, Cl. 414-732.000.
Nakashima, Seiichiro; Toyoda, Kenichi; Nihei, Ryo; and Mizuno, Hitoshi, 4,688,984, Cl. 414-735.000.
Nakashima, Seiichiro; Toyoda, Kenichi; Sakakibara, Shinsuke; and Torii, Nobutoshi, 4,697,979, Cl. 414-786.000.
Nakashima, Seiichiro; Toyoda, Kenichi; Inagaki, Shigemi; and Ito, Susumu, 4,702,665, Cl. 414-730.000.
Nakashima, Seiichiro; Toyoda, Kenichi; and Torii, Nobutoshi, 4,706,001, Cl. 318-568.000.
Nakashima, Seiichiro; Toyoda, Kenichi; and Sakakibara, Shinsuke, 4,706,003, Cl. 318-568.000.
Nakashima, Seiichiro; Toyoda, Kenichi; Inagaki, Shigemi; and Otsuka, Kazuhisa, 4,712,972, Cl. 414-744.00R.

Toyoda, Kenji; Kimura, Makoto; and Isogai, Masaki, to Kyodo News Service; and Nippon Kogaku K. K. Phototelegraphic apparatus for transmitting images of film and data. 4,658,301, 4-14-87, Cl. 379-100.000.

Toyoda, Kenji; and Hishinuma, Toru, to Nippon Kogaku K. K. Image reading apparatus. 4,701,804, 10-20-87, Cl. 358-280.000.

Toyoda, Kenji: *See*—
Sato, Hiroshi; Kadowaki, Kohei; Naito, Kaoru; Toyoda, Kenji; and Tsuchihashi, Hidehisa, 4,704,617, Cl. 346-76.0PH.
Satoh, Tsuyoshi; Mitsuishi, Tsutomu; Toyoda, Kenji; Naito, Kaoru; Ogawa, Makoto; and Sato, Hiroshi, 4,698,646, Cl. 346-76.0PH.

Toyoda Koki Kabushiki Kaisha: *See*—
Eto, Kunihiko; Iwashita, Shigeo; and Matsumoto, Tsutomu, 4,637,483, Cl. 180-142.000.
Eto, Kunihiko; Ohno, Akihiro; and Mori, Yutaka, 4,662,466, Cl. 180-142.000.
Imai, Tomoyasu; Mukai, Ryouhei; and Tsutsui, Toshihiro, 4,662,120, Cl. 51-101.00R.
Kikuchi, Makoto, 4,642,021, Cl. 414-735.000.
Murata, Kazushi; Takashima, Toshiharu; and Nakashima, Kunimichi, 4,637,108, Cl. 29-33.00P.
Nakamura, Hiroshi; Toyama, Osamu; and Kanii, Norikazu, 4,637,774, Cl. 414-735.000.
Nakamura, Kenchi; Eto, Kunihiko; Suzuki, Mikio; Hayashi, Masaaki; and Iwashita, Shigeo, 4,653,601, Cl. 180-79.100.
Nakamura, Kenchi; Honaga, Susumu; Suzuki, Mikio; and Takeuchi, Yoshiyuki, 4,676,334, Cl. 180-142.000.
Nakamura, Kenchi; and Suzuki, Mikio, 4,715,464, Cl. 180-142.000.
Namba, Yoshiharu; Suzuki, Hiroshi; and Sugita, Kazuhiko, 4,700,510, Cl. 51-134.50R.
Ohmura, Haruo; and Ohba, Yuji, 4,662,122, Cl. 51-165.710.
Ohta, Takeshi; Nakamura, Hiroshi; and Murata, Kazushi, 4,685,850, Cl. 414-225.000.
Okada, Hiroshi; Tsujiuchi, Toshio; and Ogasawara, Tadashi, 4,706,415, Cl. 51-165.00R.
Suzuki, Mikio; and Tanooka, Shigeo, 4,643,227, Cl. 137-625.380.
Suzuki, Mikio; Iwashita, Shigeo; and Hayashi, Masaaki, 4,685,528, Cl. 180-79.100.
Takagi, Masayoshi; Hoshino, Yukio; and Yamauchi, Hiroki, 4,713,876, Cl. 29-568.000.
Tsujiuchi, Toshio; and Nuno, Yasuo, 4,700,483, Cl. 33-125.00R.
Tsujiuchi, Toshio; Shimmura, Yoshinori; and Oda, Yukio, 4,711,054, Cl. 51-165.770.
Yoneda, Takao; and Sakakibara, Yasuji, 4,648,025, Cl. 364-171.000.
Yoneda, Takao; and Nakano, Hiroshi, 4,694,233, Cl. 318-569.000.
Yoneda, Takao; Ogasawara, Tadashi; Ohta, Norio; and Sakakibara, Yasuji, 4,709,509, Cl. 51-165.710.

Toyoda, Mamoru: *See*—
Kirii, Kazunari; Toyoda, Mamoru; Utsumi, Masatoki; and Asai, Akio, 4,698,991, Cl. 62-21.000.

Toyoda, Mitsuru, to Seiko Epson Kabushiki Kaisha. Pocket machinery cabinet, 4,635,128, 1-6-87, Cl. 358-236.000.

Toyoda, Mitsuru: *See*—
Yanabu, Satoru; Mizoguchi, Hitoshi; Ikeda, Hisatoshi; Suzuki, Katsumi; Toyoda, Mitsuru; and Thuries, Edmond, 4,665,289, Cl. 200-148.00A.

Toyoda, Naoki: *See*—
Watanabe, Koji; Watanabe, Mitsuo; Toyoda, Naoki; Toyoda, Hideo; Kumano, Toshio; and Hiramoto, Michiaki, 4,667,481, Cl. 62-235.000.

Toyoda, Nobuyuki: *See*—
Ikawa, Yasuo; Toyoda, Nobuyuki; Kanazawa, Katsue; Mizoguchi, Takamaro; and Hojo, Akimichi, 4,663,646, Cl. 357-45.000.

Toyoda, Shuhei: *See*—
Nishikawa, Masumi; Ishikawa, Masanobu; Sato, Hiroki; Toyoda, Shuhei; and Ishii, Hakumi, 4,633,732, Cl. 74-493.000.

Toyoda, Takashi; Akimoto, Akira; Yamanaka, Masaaki; and Kobayasi, Yonetarou, to Oji Yuka Goseishi Co., Ltd. Synthetic paper printable in high gloss, 4,663,216, 5-5-87, Cl. 428-212.000.

Toyoda, Takashi: *See*—
Nakamura, Koki; Kojima, Tetsuro; Toyoda, Takashi; and Ikeda, Hideo, 4,675,276, Cl. 430-446.000.
Yamada, Minoru; and Toyoda, Takashi, 4,672,025, Cl. 430-420.000.

Toyoda, Taro; and Seki, Yasukazu, to Fuji Electric Corporate Research and Development Co., Ltd. Solid-state optical temperature measuring device, 4,671,651, 6-9-87, Cl. 356-44.000.

Toyoda, Tsunehiko: *See*—
Sakakibara, Takao; Toyoda, Tsunehiko; and Nagashima, Yoshihisa, 4,681,712, Cl. 264-24.000.

Toyoda Van Moppes Limited: *See*—
Takahashi, Kunio; and Sekiya, Yasuhisa, 4,671,021, Cl. 51-204.000.

Toyoda, Yasuhiro; Shimada, Fumio; and Yoshida, Katsumi, to Canon Kabushiki Kaisha. Blade type shutter, 4,660,952, 4-28-87, Cl. 354-246.000.

Toyoda, Yasuhiro, to Canon Kabushiki Kaisha; and Canon Denshi Kabushiki Kaisha. Electromagnetically control led shutter for camera, 4,671,637, 6-9-87, Cl. 354-234.100.

Toyoda, Yasuhiro; Shimada, Fumio; and Yoshida, Katsumi, to Canon Kabushiki Kaisha. Braking device for shutter, 4,692,009, 9-8-87, Cl. 354-246.000.

Toyoda, Yukio: *See*—
Watanabe, Yoji; Morimura, Toshio; and Toyoda, Yukio, 4,692,313, Cl. 422-241.000.

Toyoguchi, Yoshinori: *See*—
Yamaura, Junichi; Toyoguchi, Yoshinori; Matsui, Tooru; and Ijima, Takashi, 4,658,498, Cl. 29-623.100.
Yamaura, Junichi; Matsui, Tooru; Nankai, Shiro; and Toyoguchi, Yoshinori, 4,668,594, Cl. 429-194.000.

Toyogucyi, Tsutomu: *See*—
Higuchi, Kunio; Miyazono, Shunichi; and Toyoguevi, Tsutomu, 4,674,080, Cl. 369-77.200.

Toyohara, Tsutomu: *See*—
Sasano, Ryoichiro; Toyohara, Tsutomu; and Takigawa, Toshimichi, 4,690,020, Cl. 82-2.00D.

Toyohashi Braided Rope Industrial Co., Ltd.: *See*—
Ban, Tatsuzo, 4,644,679, Cl. 43-7.000.

Toyokawa, Kazuhara, to International Business Machines Corporation. Compressed block code for facsimile transmission, 4,673,987, 6-16-87, Cl. 358-260.000.

Toyokawa, Yasufumi: *See*—
Motojima, Kenji; Miyazawa, Takeshige; Toyokawa, Yasufumi; Matsuzawa, Masafumi; Hokari, Hiroshi; and Kusano, Shoji, 4,678,496, Cl. 71-76.000.

Toyoko Kagaku Co., Ltd.: *See*—
Totani, Tatuo, 4,660,868, Cl. 285-354.000.

Toyoma Chemical Co., Ltd.: *See*—
Imaizumi, Hiroyuki; Inaba, Takihiro; Morita, Seishi; Takeno, Ryuko; Murotani, Yoshiharu; Fukuda, Hirohiko; Yoshida, Junichi; Tanaka, Kiyoshi; Takano, Shuntaro; and Saikawa, Isamu, 4,656,287, Cl. 548-194.000.

Toyomitsu Kogyo, Co., Ltd.: *See*—
Ikezaki, Yasuo; Matsuoka, Tadashi; and Mitani, Kazuyuki, 4,712,334, Cl. 51-262.00A.

Toyonaga, Kenji; Higashitsutsumi, Yoshihito; Yanai, Akihiro; and Akiyama, Toru, to Sanyo Electric Co., Ltd. Noise elimination circuit for eliminating noise signals from binary data, 4,667,338, 5-19-87, Cl. 377-45.000.

Toyonaga, Kenji; Higashitsutsumi, Yoshihito; and Yanai, Akihiro, to Sanyo Electric Co. Ltd. Data transmission system, 4,689,785, 8-25-87, Cl. 370-85.000.

Toyono, Tsutomu: *See*—
Nakahata, Kimio; Toyono, Tsutomu; Takagi, Atsushi; and Aguro, Yoshinori, 4,641,948, Cl. 355-3.0SH.

Toyooka, Akihisa: *See*—
Hasegawa, Toshiharu; Shen, Zai-ming; Muro, Shoujiro; Masuyama, Shigeru; and Toyooka, Akihisa, 4,709,364, Cl. 370-85.000.

Toyooka, Katsuji; and Shigematsu, Hisashi, to Koyo Electronics Industries, Co., Ltd. Programmable controller having selectively prohibited outputs, 4,648,027, 3-3-87, Cl. 364-184.000.

Toyooka, Shinichi: *See*—
Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, 4,671,754, Cl. 425-66.000.
Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, 4,705,544, Cl. 55-158.000.

Toyooka, Tetsuo; and Shiraishi, Masatoshi, to Matsushita Electronics Corporation. Method for making bipolar transistor having a graft-base configuration, 4,662,062, 5-5-87, Cl. 29-578.000.

Toyosawa, Masao, to Sony Corporation. Optical disk record player with fast access time, 4,646,280, 2-24-87, Cl. 369-50.000.

Toyosawa, Yukio: *See*—
Kurakake, Mitsuo; Sakamoto, Keiji; and Toyosawa, Yukio, 4,680,818, Cl. 318-561.000.
Kurakake, Mitsuo; Sakamoto, Keiji; and Toyosawa, Yukio, 4,695,780, Cl. 318-561.000.

Toyoshi, Seiji; Yoshizumi, Tomoya; Saeki, Masaru; and Kawakita, Tetsuya, to Ajinomoto Co., Inc. Method for preventing fouling of electrodialysis membrane, 4,711,722, 12-8-87, Cl. 210-638.000.

Toyoshima, Isao: *See*—
Takahashi, Hiroyuki; and Toyoshima, Isao, 4,703,218, Cl. 310-348.000.

Toyoshima, Makoto; and Kawamukai, Kikuo, to Toyo Seikan Kaisha, Limited. Method and apparatus for making a can body, 4,675,496, 6-23-87, Cl. 219-121.0LD.

Toyoshima, Makoto: *See*—
Matsuno, Kenji; Yasumuro, Hisakazu; Taira, Kazuo; Imatani, Tsuneo; and Toyoshima, Makoto, 4,685,989, Cl. 156-244.130.

Toyoshima, Masakatsu; Hideshima, Yasuhiro; and Fujita, Etsumi, to Sony Corporation. Digital terminal address transmitting for CATV, 4,684,981, 8-4-87, Cl. 358-86.000.

Toyoshima, Masakatsu: *See*—
Kubota, Ichiro; and Toyoshima, Masakatsu, 4,635,274, Cl. 375-1.000.
Sakamoto, Akira; Fukami, Takeshi; Sugita, Takehiro; and Toyoshima, Masakatsu, 4,683,586, Cl. 380-48.000.

Toyoshima, Masayasu: *See*—
Itoh, Katsuhisa; Watanabe, Yoshiaki; Nakamura, Eiji; and Toyoshima, Masayasu, 4,684,448, Cl. 204-71.000.

Toyoshima, Satoshi: *See*—
Ogura, Haruo; Furuhata, Kimio; Osawa, Toshiaki; Toyoshima, Satoshi; Shitori, Yoshiyasu; Ito, Masayoshi; and Yoshimura, Shoji, 4,691,012, Cl. 536-23.000.

Toyoshima, Shigeshi; Seto, Yoshiko; Fukushima, Koji; and Kumashiro, Izumi, to Ajinomoto Co., Inc. Pharmaceutical composition having an excellent absorption property, 4,650,785, 3-17-87, Cl. 514-3.000.

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Toyoshima, Shoji: *See*—
Tsuzuki, Yukio; Yamaoka, Masami; and Toyoshima, Shoji, 4,680,608, Cl. 357-36.000.
Yamaoka, Masami; Tsuzuki, Yukio; and Toyoshima, Shoji, 4,672,402, Cl. 357-13.000.

Toyoshima, Shuji: *See*—
Nishijima, Hideo; Okamoto, Kaneyuki; Ito, Takayasu; and Toyoshima, Shuji, 4,707,749, Cl. 360-14.300.

Toyoshima, Takefumi: *See*—
Yoshida, Hiroshi; Toyoshima, Takefumi; Iwabori, Tomio; Ohkura, Hideaki; Miyamoto, Yasuo; Nishimura, Izumi; Oikawa, Toshiyuki; Sekijima, Kenji; and Ohashi, Makoto, 4,709,898, Cl. 248-562.000.

Toyoshima, Yoshiki: *See*—
Higashimura, Toshinobu; Sawamoto, Mitsuo; Toyoshima, Yoshiki; Kanagawa, Shuuichi; Takahashi, Tsutomu; and Saito, Noriaki, 4,696,988, Cl. 526-220.000.
Toyoshima, Yotaro: *See*—
Watabe, Seiji; Yokoyama, Isao; Sasaki, Masanori; Toyoshima, Yotaro; Takahashi, Sumio; and Maeda, Tsutomu, 4,714,908, Cl. 335-212.000.
Toyota, Akinori: *See*—
Tsutsui, Toshiyuki; Kioka, Mamoru; Toyota, Akinori; and Kashiwa, Norio, 4,704,491, Cl. 585-10.000.
Toyota Central Research & Development Laboratories, Inc.: *See*—
Ikemoto, Hiroyuki; Oowa, Nobutaka; Hayashi, Yasutaka; and Doi, Shunichi, 4,693,493, Cl. 280-707.000.
Toyota Jidosha Co., Ltd.: *See*—
Kasugai, Joji; and Yamamoto, Masami, 4,666,056, Cl. 220-203.000.
Toyota Jidosha Kabushi Kaisha: *See*—
Oonaka, Hidemi; Baika, Toyokazu; Shibata, Yoshiaki; Horii, Kingo; Sato, Yasushi; and Akiyama, Tomojiro, 4,656,992, Cl. 123-559.000.
Toyota Jidosha K.K.: *See*—
Awano, Yoshiro; Suzuki, Hiroshi; Mizuno, Takaji; Ueguri, Shigeo; and Higashida, Kenji, 4,697,062, Cl. 219-130.510.
Toyota Jidosha Kabushiki Kaisha: *See*—
Abe, Shinichi; and Mizuno, Toshiaki, 4,637,364, Cl. 123-492.000.
Abe, Shizuo, 4,708,700, Cl. 474-205.00Q.
Adachi, Yoshiharu; Nishimura, Takumi; Saito, Tadao; Shibata, Hirochika; Nakanishi, Nobuyasu; Shirai, Akira; and Noguchi, Noboru, 4,636,010, Cl. 303-115.000.
Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,662,484, Cl. 188-73.450.
Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,678,064, Cl. 188-73.450.
Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; Yamanaka, Toshihiko; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,655,509, Cl. 303-10.000.
Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; and Yamanaka, Toshihiko, 4,660,899, Cl. 303-115.000.
Anzai, Katsushi; Harada, Osamu; Suematsu, Toshio; and Takeda, Yuji, 4,712,522, Cl. 123-179.00L.
Aoki, Keiji; and Tanaka, Shinichiro, 4,675,821, Cl. 364-431.080.
Arai, Hiroshi; and Fukushima, Kazunobu, 4,653,799, Cl. 296-146.000.
Asai, Akio; Watanabe, Kazuki; Yoshinaka, Ryoji; and Kirii, Kazunari, 4,667,496, Cl. 72-20.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,634,143, Cl. 280-707.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,647,068, Cl. 280-707.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,667,978, Cl. 280-707.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,671,533, Cl. 280-707.000.
Asami, Ken; Onuma, Toshio; Ohashi, Kaoru; and Buma, Shuuichi, 4,690,429, Cl. 280-707.000.
Asami, Ken; Ohashi, Kaoru; Onuma, Toshio; and Buma, Shuuichi, 4,715,616, Cl. 280-707.000.
Asano, Masumi, and Hattori, Noriaki, 4,664,605, Cl. 417-407.000.
Azuma, Hidekazu; Yoshinaka, Ryozi; Tsuruhashi, Takayuki; Hokao, Katsuiku; Watanabe, Kazuki; Ogo, Kazutaka; Suzuki, Takatoshi; and Hayashi, Masahiro, 4,656,868, Cl. 73-587.000.
Baika, Toyokazu; and Oonaka, Hidemi, 4,712,442, Cl. 74-467.000.
Ban, Megumu, 4,697,782, Cl. 248-639.000.
Buma, Shuuichi, 4,635,906, Cl. 267-8.00R.
Buma, Shuuichi, 4,651,977, Cl. 267-8.00R.
Buma, Shuuichi, 4,653,735, Cl. 267-8.00R.
Buma, Shuuichi, 4,659,070, Cl. 267-64.250.
Buma, Shuuichi, 4,660,810, Cl. 267-64.250.
Buma, Shuuichi; Yokoya, Yuji; Araki, Hitoshi; Hirose, Masanori; Miyata, Hiroshi; and Ohashi, Kaoru, 4,666,135, Cl. 267-64.210.
Buma, Shuuichi, 4,671,323, Cl. 137-846.000.
Buma, Shuuichi, 4,673,171, Cl. 267-8.00R.
Buma, Shuuichi, 4,690,430, Cl. 280-708.000.
Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,693,494, Cl. 280-707.000.
Buma, Shuuichi; and Horiyama, Osamu, 4,712,775, Cl. 267-220.000.
Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,714,271, Cl. 280-707.000.
Buma, Shuuichi; Onuma, Toshio; Ohashi, Kaoru; and Itou, Masami, 4,714,272, Cl. 280-707.000.
Chiba, Yoshinori; Ishida, Keiichi; and Sugiura, Fumio, 4,690,456, Cl. 297-284.000.
Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Nagai, Toshinari; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,693,076, Cl. 60-274.000.
Chujo, Yoshiki; Kayanuma, Nobuaki; Bessho, Hironori; Masui, Takatoshi; Katsuno, Toshiyasu; and Tanahashi, Toshio, 4,703,619, Cl. 60-274.000.
Dohnomoto, Tadashi; and Takahashi, Yoshitaka, 4,656,100, Cl. 428-611.000.
Dohnomoto, Tadashi; and Kubo, Masahiro, 4,664,704, Cl. 75-229.000.
Donomoto, Tadashi; Tatematsu, Yoshiaki; Tanaka, Atsuo; and Kubo, Masahiro, 4,708,847, Cl. 420-129.000.
Egami, Tsuneyuki; Saito, Tsutomu; Kohama, Tokio; Saito, Kimitaka; Sato, Kumihiko; and Takahashi, Hiroshi, 4,635,200, Cl. 364-431.050.
Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,636,648, Cl. 250-571.000.
Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,682,041, Cl. 250-571.000.
Fujikawa, Yoshihiro, 4,646,492, Cl. 52-208.000.
Fujikawa, Yoshihiro, 4,703,973, Cl. 296-201.000.
Fujisawa, Naoki, 4,690,448, Cl. 296-37.800.
Fujiura, Kaiya; Hayakawa, Yoichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,699,249, Cl. 184-11.100.
Fukuhara, Kazuyuki; and Shuzui, Yoshikiyo, 4,653,440, Cl. 123-52.0MB.
Fukuma, Nobuo; Hasegawa, Hisayasu; Murayama, Kimimasa; Hayashi, Kunio; and Tokudome, Yoshihiro, 4,689,864, Cl. 29-157.10R.
Fukuta, Kenji; Kaneko, Takaoki; and Takahashi, Yoshinobu, 4,678,644, Cl. 422-186.050.
Fukuta, Kenji; Kaneko, Takaoki; and Takahashi, Yoshinobu, 4,690,097, Cl. 118-723.000.
Fukuta, Kenji; Komiyama, Matsuo; Katsuyama, Kazuo; and Tanno, Minoru, 4,703,894, Cl. 239-414.000.
Fukuta, Kinsho; and Sasaki, Shiro, 4,643,383, Cl. 248-396.000.
Futamura, Kazumasa, 4,677,945, Cl. 123-90.480.
Habu, Nobuo, 4,677,556, Cl. 364-424.100.
Haga, Minoru; Kaneko, Shinobu; Bawa, Sinoj; Murayama, Kimimasa; Nakamura, Yasuhide; and Saito, Mitsuo, 4,691,551, Cl. 72-88.000.
Hamada, Hideki; and Shimizu, Tsutomu, 4,645,232, Cl. 280-801.000.
Hamajima, Kaneo; Dohnomoto, Tadashi; Tanaka, Atsuo; and Kubo, Masahiro, 4,712,600, Cl. 164-97.000.
Hamano, Hideo; Takeshita, Keiji; and Funato, Yasunichi, 4,697,781, Cl. 248-559.000.
Hanafusa, Tooru; Kinugasa, Yukio; and Yaegashi, Takehisa, 4,700,681, Cl. 123-478.000.
Harada, Osamu; Suematsu, Toshio; Takeda, Yuji; and Anzai, Katsushi, 4,640,251, Cl. 123-425.000.
Harada, Osamu; Takeda, Yuji; Suematsu, Toshio; Anzai, Katsushi; and Funato, Kazuhiko, 4,708,113, Cl. 123-425.000.
Harada, Yoshiharu; Taga, Yutaka; Nishikawa, Seiichi; Hayakawa, Yoichi; and Kawai, Masao, 4,688,449, Cl. 74-740.000.
Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,693,143, Cl. 74-866.000.
Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,708,032, Cl. 74-866.000.
Harada, Yoshiharu; Taga, Yutaka; Fukumura, Kagenori; Hayakawa, Yoichi; and Kawai, Masao, 4,713,988, Cl. 74-868.000.
Hasegawa, Akira, 4,633,963, Cl. 180-143.000.
Hasegawa, Akira, 4,640,148, Cl. 74-422.000.
Hattori, Kyo; Kato, Kazuo; and Morita, Shuji, 4,696,201, Cl. 74-467.000.
Hattori, Takemi; and Kawamura, Reiki, 4,679,855, Cl. 297-486.000.
Hattori, Tetsuo; and Seko, Shoichi, 4,714,132, Cl. 180-312.000.
Hayakawa, Toshihiro; and Sugiura, Hiroshi, 4,653,386, Cl. 98-40.280.
Hayakawa, Toshihiro, 4,693,416, Cl. 98-2.090.
Hayakawa, Yoichi; Kawai, Masao; Taga, Yutaka; Watanabe, Kazuaki; and Harada, Yoshiharu, 4,679,450, Cl. 74-752.00A.
Hayakawa, Yoichi; Kawai, Masao; Yoshizawa, Kenichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,697,479, Cl. 74-867.000.
Hayashi, Kazuhiko; Iwata, Masayosi; Tada, Mikio; and Mizuno, Hirotoshi, 4,659,882, Cl. 200-16.00R.
Hayashi, Kazuhiko; and Iwatsuki, Kunihiro, 4,688,450, Cl. 74-866.000.
Hayashi, Makoto; and Yokoya, Yuji, 4,660,689, Cl. 188-319.000.
Hayashi, Motomu; Nagai, Masayuki; and Akoshima, Shigeru, 4,640,066, Cl. 52-208.000.
Hayashi, Motomu; Nagai, Masayuki; and Imayoshi, Kiyoyuki, 4,674,247, Cl. 52-208.000.
Hayashi, Souichi; Miyake, Johji; Koyama, Mototsugu; and Sakaguchi, Kanji, 4,695,329, Cl. 148-3.000.
Hayashi, Yoshiro; Ekino, Yoshio; Yuki, Isamu; and Taguchi, Masahiro, 4,663,205, Cl. 428-36.000.
Hiramatsu, Eiji; and Shiraishi, Daiichi, 4,667,442, Cl. 49-441.000.
Hirao, Kouji; Kuwana, Kazutaka; and Asami, Ken, 4,702,123, Cl. 74-526.000.
Hirosawa, Yasunori; and Okudaira, Souichirou, 4,658,925, Cl. 180-68.100.
Hori, Hiroshi; and Taniyama, Kiyoshi, 4,656,885, Cl. 74-467.000.
Hori, Makoto; Nomura, Etsuji; Niwa, Hitoshi; Mukai, Hirokatsu; and Tanaka, Toshiaki, 4,667,644, Cl. 123-549.000.
Horii, Kingo, 4,660,526, Cl. 123-559.000.
Horio, Kimihide; Kikuchi, Yasunobu; and Fujita, Hiroya, 4,658,769, Cl. 123-90.310.
Horiuchi, Ichiro; Ohshima, Shoich; and Takeshita, Keiji, 4,660,433, Cl. 74-476.000.
Horiuchi, Yusuke; and Inui, Masaki, 4,711,135, Cl. 74-473.00R.
Hoshino, Shigeru; and Miyata, Hiroshi, 4,683,375, Cl. 250-231.05E.
Hyodo, Yoichi; and Harata, Mitsuru, 4,648,164, Cl. 29-159.00B.
Hyodo, Youichi, 4,648,614, Cl. 280-91.000.
Hyodo, Youichi, 4,691,932, Cl. 280-91.000.
Hyodo, Youichi, 4,703,669, Cl. 74-492.000.

Ichikawa, Noriyuki; Suzuki, Tetsushi; and Atsumi, Tomiaki, 4,710,152, Cl. 474-166.000.
Ida, Shuichiro; Shimizu, Katsumi; and Hotta, Junichi, 4,676,114, Cl. 74-335.000.
Ida, Shuichiro; Yoshinaka, Toshio; and Nagano, Shuji, 4,713,980, Cl. 74-467.000.
Idogaki, Takaharu; Kawai, Hisasi; Hattori, Kyo; and 'Sakurai, Kazuhiro, 4,647,009, Cl. 251-129.120.
Igashira, Toshihiko; Sakakibara, Yasuyuki; Takeuchi, Yasuhiro; Abe, Seiko; and Nohira, Hidetaka, 4,667,638, Cl. 123-446.000.
Ikai, Tadayoshi; and Kamo, Takashi, 4,712,419, Cl. 73-116.000.
Ikeda, Shinji; and Matsumoto, Shinichi, 4,633,842, Cl. 123-501.000.
Ikeda, Shinji, 4,638,784, Cl. 123-571.000.
Ikeda, Shinji, 4,648,266, Cl. 73-117.300.
Ikeda, Shinji, 4,658,642, Cl. 73-119.00A.
Ikemoto, Hiroyuki; Oowa, Nobutaka; Hayashi, Yasutaka; and Doi, Shunichi, 4,693,493, Cl. 280-707.000.
Ikemoto, Kazuhito; Terakura, Yukio; and Funato, Yasumichi, 4,674,614, Cl. 192-53.00F.
Ikemoto, Kazuhito, 4,708,026, Cl. 74-359.000.
Imagawa, Toshiyuki, 4,651,483, Cl. 52-212.000.
Inagaki, Kazuya, 4,674,770, Cl. 280-797.000.
Inagaki, Takafumi; Sasaoka, Hiroshi; Masutomi, Susumu; Itoh, Hiroshi; and Takada, Mitsuru, 4,698,764, Cl. 364-424.100.
Inden, Masahiro; Kuwana, Kazutaka; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,679,589, Cl. 137-596.170.
Inui, Masaki; and Ogawa, Shinji, 4,646,583, Cl. 74-473.00R.
Inui, Masaki; Horiuchi, Yusuke; and Ogawa, Shinji, 4,660,434, Cl. 74-477.000.
Ishihata, Takato, 4,637,100, Cl. 24-274.00R.
Ishikawa, Seiji, 4,665,291, Cl. 200-308.000.
Ishikawa, Soichi; Yoshida, Mamoru; and Kozawa, Kunio, 4,647,195, Cl. 356-121.000.
Isobe, Masahiro, 4,651,839, Cl. 180-68.400.
Isobe, Toshiaki; and Oba, Hidehiro, 4,690,117, Cl. 123-492.000.
Ito, Masashi; Ohashi, Toshio; and Ui, Katsumi, 4,639,272, Cl. 106-243.000.
Ito, Seitoku; Iwashita, Shigeo; Kamiya, Sigeru; Noguchi, Hiroshi; and Mori, Nobuhisa, 4,633,706, Cl. 73-28.000.
Ito, Takaaki; Mori, Eiji; Uranishi, Koji; Miyazaki, Shinji; and Sugimoto, Junichi, 4,715,509, Cl. 220-86.00R.
Ito, Toshimitsu; and Okamoto, Akio, 4,677,954, Cl. 123-478.000.
Ito, Toshimitsu; and Murata, Chigaku, 4,696,278, Cl. 123-493.000.
Ito, Toshio; Fujio, Shunichi; and Taya, Takeyoshi, 4,705,092, Cl. 164-34.000.
Itoh, Hiroshi; and Takada, Mitsuru, 4,637,279, Cl. 74-866.000.
Itoh, Hiroshi; Akashi, Teruo; and Takada, Mitsuru, 4,653,353, Cl. 74-868.000.
Itoh, Hiroshi; and Takada, Mitsuru, 4,663,990, Cl. 74-866.000.
Itoh, Hiroshi; and Takada, Mitsuru, 4,672,863, Cl. 74-866.000.
Itoh, Hiroshi, 4,685,358, Cl. 74-868.000.
Itoh, Hiroshi; Takada, Mitsuru; Sasaoka, Hiroshi; Inagaki, Takahumi; and Masutomi, Susumu, 4,689,745, Cl. 364-424.100.
Itou, Hiroshi; Okane, Yukihiro; and Kuramoto, Akio, 4,693,222, Cl. 123-432.000.
Iwao, Nomura, Masuyama, Takayuki; Tanigawa, Yasuo; and Hasimoto, Hirofumi, 4,702,666, Cl. 414-730.000.
Iwase, Yoshinobu; and Morisawa, Kunio, 4,651,577, Cl. 74-12.000.
Iwashita, Yoshihiro; and Okumura, Takeshi, 4,671,233, Cl. 123-308.000.
Iwata, Minoru; Takada, Shigetaka; and Takeuchi, Hitoshi, 4,657,189, Cl. 239-585.000.
Iwata, Yasunari; and Usui, Hirokazu, 4,700,563, Cl. 73-118.100.
Iwatsuki, Kunihiro, 4,685,356, Cl. 74-866.000.
Iyoda, Motomi, 4,639,831, Cl. 361-286.000.
Iyoda, Motomi, 4,689,536, Cl. 318-483.000.
Iyoda, Motomi, 4,710,878, Cl. 364-424.000.
Izumi, Toshio, 4,641,855, Cl. 280-716.000.
Izumi, Toshio; and Kawakatsu, Fukuyoshi, 4,667,943, Cl. 267-141.300.
Izumi, Toshio; Saito, Ryozo; Kato, Yoichi; and Miyata, Hiroshi, 4,691,284, Cl. 364-424.000.
Jikihara, Yoshiro, 4,703,671, Cl. 74-710.500.
Kanda, Mutsumi, 4,690,105, Cl. 123-41.82R.
Kanda, Mutsumi; Okumura, Takeshi; and Iwashita, Yoshihiro, 4,700,665, Cl. 123-41.82R.
Kano, Noboru; and Saito, Akinori, 4,664,440, Cl. 296-214.000.
Kashiwagura, Toshimi, 4,655,179, Cl. 123-326.000.
Katayama, Nobuaki, 4,643,045, Cl. 74-695.000.
Katayama, Nobuaki, 4,669,332, Cl. 74-701.000.
Katayama, Nobuaki, 4,671,136, Cl. 74-710.500.
Kato, Hisaaki; Yamaguchi, Shuuji; and Okazaki, Toshiharu, 4,702,515, Cl. 296-189.000.
Kato, Kenji; Inoue, Tokuta; Nakanishi, Kiyoshi; and Matsushita, Soichi, 4,682,577, Cl. 123-492.000.
Kato, Kenji; Matsushita, Soichi; and Nakanishi, Kiyoshi, 4,694,794, Cl. 123-306.000.
Kato, Kichiro, 4,709,682, Cl. 123-559.000.
Kato, Shogo; Takase, Jun; Okada, Masanori; and Kuramochi, Kouziro, 4,653,346, Cl. 74-701.000.
Katsumoto, Naoaki; and Miyagawa, Toshihito, 4,715,655, Cl. 297-362.000.
Katsuno, Mitsuaki; Gyoda, Toshio; Tanaka, Hideki; Hurumoto, Kunihiro; Yoshitsugu, Noritada; and Matsui, Kenji, 4,682,790, Cl. 280-801.000.
Katsuno, Toshiyasu; Nagai, Toshinari; Masui, Takatoshi; and Satou, Yasushi, 4,707,984, Cl. 60-274.000.
Kawabata, Yasuhiro; Ito, Shoji; Kawai, Yukio; Sasano, Mitsunori; and Ohmura, Fusaji, 4,665,948, Cl. 137-625.480.
Kawai, Hiroshi; Ohtsuka, Yukio; and Mizuno, Kuniaki, 4,644,996, Cl. 164-336.000.
Kawai, Hiroshi; and Otsuka, Yukio, 4,671,337, Cl. 164-150.000.
Kawai, Hiroshi; Ohtsuka, Yukio; and Mizuno, Kuniaki, 4,674,551, Cl. 164-4.100.
Kawamoto, Hiroshi; and Miyazaki, Hiroshi, 4,708,074, Cl. 417-407.000.
Kawano, Ken; Sibata, Takuo; and Kouketu, Kouiti, 4,644,815, Cl. 74-467.000.
Kawase, Yukio; and Izuta, Hitoshi, 4,699,419, Cl. 296-192.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,658,475, Cl. 16-367.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,665,586, Cl. 16-319.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,665,587, Cl. 16-370.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,700,983, Cl. 296-146.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,700,984, Cl. 296-146.000.
Kinaga, Eiichi; and Shiraishi, Daiichi, 4,713,862, Cl. 16-223.000.
Kinoshita, Yoshiaki, 4,711,200, Cl. 123-492.000.
Kinoshita, Yoshiaki, 4,715,343, Cl. 123-489.000.
Kinugasa, Yukio, 4,667,631, Cl. 123-325.000.
Kiriu, Kazunari; Toyoda, Mamoru; Utsumi, Masatoki; and Asai, Akio, 4,698,991, Cl. 62-21.000.
Kitagawa, Katsutoshi, 4,644,916, Cl. 123-192.00B.
Kobayashi, Fumiaki, 4,713,965, Cl. 73-119.00A.
Kobayashi, Kiyonori; Kamiya, Masakazu; and Kato, Satoshi, 4,663,983, Cl. 74-574.000.
Kobayashi, Koji; Sumiya, Koji; Taga, Yutaka; and Watanabe, Kazuaki, 4,693,353, Cl. 192-85.0AA.
Kobayashi, Nobuyuki; and Ito, Toshimitsu, 4,644,921, Cl. 123-489.000.
Kobayashi, Nobuyuki; and Hattori, Takashi, 4,648,370, Cl. 123-489.000.
Kobayashi, Nobuyuki; Ito, Toshimitsu; Akatsuka, Takao; and Ninomiya, Masakazu, 4,651,700, Cl. 123-489.000.
Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, 4,653,451, Cl. 123-489.000.
Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, 4,713,766, Cl. 364-431.050.
Kodama, Hisashi; and Okabe, Yoshio, 4,713,045, Cl. 474-135.000.
Koga, Itsuo, 4,655,189, Cl. 123-519.000.
Kondo, Katsumi; Tsuchiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,681,647, Cl. 156-172.000.
Kondo, Kunio; Haga, Katutoshi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,642,905, Cl. 409-232.000.
Kondo, Kunio; Haga, Katutoshi; Kurumiya, Tadashi; Haga, Minoru; Kato, Yasuo; and Kaneko, Shinobu, 4,643,623, Cl. 409-232.000.
Konishi, Yoshimune; Hobo, Nobuhito; Tsuzuki, Yoshihiko; Kameoka, Narutoshi; Miyaki, Masahiko; and Koide, Hiroshi, 4,653,454, Cl. 123-506.000.
Kouno, Katsumi, 4,676,121, Cl. 74-574.000.
Kouno, Katsumi; and Sawada, Daisaku, 4,702,725, Cl. 474-28.000.
Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,644,826, Cl. 74-866.000.
Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,648,289, Cl. 74-866.000.
Kuroiwa, Yosio; and Sibata, Takuo, 4,701,085, Cl. 409-244.000.
Kurosawa, Ryuichi, 4,712,807, Cl. 280-707.000.
Kurosu, Noriaki; Ohmae, Masanori; and Kashiwa, Michiaki, 4,683,540, Cl. 364-468.000.
Kushi, Naoto; Okano, Hiroshi; Kobayashi, Nobuyuki; and Sugita, Naoki, 4,696,275, Cl. 123-478.000.
Kusunoki, Gen; Meguro, Akira; Tokushima, Yasuo; Ohta, Koji; Kawai, Tadashi; and Sugata, Akihiko, 4,667,621, Cl. 118-687.000.
Maeda, Koichi, 4,699,412, Cl. 294-64.100.
Maeda, Yorishige, 4,659,093, Cl. 277-139.000.
Maeda, Yoshihiko; Nogami, Toshiaki; Kashiwagi, Shigeru; Sakurai, Kenji; and Nishiyama, Kunio, 4,702,517, Cl. 296-214.000.
Makibayashi, Katsunori; Murase, Kenji; and Kunihiro, Motoo, 4,706,947, Cl. 267-140.100.
Maruyamano, Satoru; and Ohtani, Hisao, 4,646,902, Cl. 192-113.00A.
Maruyamano, Satoru; and Ohtani, Hisao, 4,655,335, Cl. 192-99.00S.
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,670,852, Cl. 364-565.000.
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,672,547, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,651,281, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,665,490, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,666,218, Cl. 303-106.000.
Matsui, Kazuma; Hattori, Yoshiyuki; Imani, Yuichi; Kuno, Akira; and Nomura, Yoshihisa, 4,687,260, Cl. 303-119.000.
Matsumoto, Hisashi; Motogami, Yoshikazu; Miyahara, Masahiko; Inoue, Tokuta; Hasegawa, Kohichi; Aoki, Keiji; Ikeda, Shinji;

Kawai, Mitsuo; Kobashi, Mamoru; Takata, Mamoru; Nagase, Masaomi; and Hoshiba, Hiroyuki, 4,665,740, Cl. 73-116.000.
Matsuno, Kiyotaka; Nagase, Masaomi; and Tsukamoto, Keisuke, 4,643,154, Cl. 123-501.000.
Matsuno, Yutaka; Hatanaka, Yasunori; Shimizu, Hirokazu; Ishigaki, Masahiro; Harada, Hiroshi; Kawada, Michihiro; and Wakita, Yasukuni, 4,673,188, Cl. 277-212.0FB.
Matsuno, Yutaka; Kumagai, Tadanobu; and Tanaka, Hatsuyuki, 4,701,982, Cl. 24-273.000.
Matsushima, Katsuaki; Fujioka, Yasuhiro; Sasaki, Takeshi; Fujine, Manabu; and Yamamoto, Kouji, 4,640,184, Cl. 98-2.150.
Midooka, Masanori; Kubo, Takashi; Fujikawa, Atsunobu; and Motoda, Masanori, 4,708,351, Cl. 277-184.000.
Mimura, Etuhisa, 4,703,771, Cl. 137-142.000.
Mishima, Yasuhiro; Makibayashi, Katsunori; and Kuwayama, Kiyoaki, 4,637,595, Cl. 267-52.000.
Mitsuyasu, Masaki; and Takahashi, Takeshi, 4,688,536, Cl. 123-490.000.
Miura, Hirohisa; Satoh, Hiroshi; Natsume, Toshio; and Katagiri, Hidenori, 4,695,319, Cl. 75-63.000.
Miyadera, Kazuhiko, 4,690,241, Cl. 180-315.000.
Miyadera, Kazuhiko, 4,691,960, Cl. 296-37.800.
Miyake, Takashi, 4,708,119, Cl. 123-559.000.
Miyaki, Masahiko; and Egami, Tsuneyuki, 4,642,773, Cl. 364-431.050.
Miyata, Hiroshi; and Katoh, Shinji, 4,633,332, Cl. 180-142.000.
Mizuno, Yoshikazu; Gonda, Katsumi; Ikuma, Akira; and Ochiai, Takeshi, 4,650,020, Cl. 180-176.000.
Mochizuki, Hiroyuki; Kobayashi, Nobuo; Iauzuka, Yutaka; Aiba, Shigeo; and Nishi, Setsuo, 4,683,769, Cl. 74-422.000.
Mori, Satoshi; Egami, Tsuneyuki; Mori, Kouichi; Nohira, Hidetaka; and Yoshimura, Kunimasa, 4,661,695, Cl. 250-227.000.
Morisawa, Kunio; and Nakamura, Yasunari, 4,699,236, Cl. 180-249.000.
Morita, Akiyoshi; Nonoyama, Hideo; and Fukuizumi, Toshiharu, 4,652,724, Cl. 219-121.0LM.
Morita, Akiyoshi; Nonoyama, Hideo; Fukuizumi, Toshiharu; and Uruno, Kiyokazu, 4,661,676, Cl. 219-121.0LM.
Morita, Shuji; Sato, Katsujiro; Asaoka, Yoshio; Harada, Isao; and Hirano, Tomiyasu, 4,644,914, Cl. 123-90.550.
Moroto, Shuzo; Sumiya, Koji; Watanabe, Kazuaki; Kubo, Seitoku; Kobayashi, Koji; and Taga, Yutaka, 4,714,146, Cl. 192-85.0AA.
Motonami, Masanao; and Ikehata, Hiromi, 4,650,241, Cl. 296-187.000.
Murata, Kiyohito, 4,682,676, Cl. 192-21.500.
Murayama, Kimimasa; Ikawa, Shoji; and Kaneko, Shinobu, 4,633,696, Cl. 72-88.000.
Nagai, Toshinari; Masui, Takatoshi; Sato, Yasushi; and Katsuno, Toshiyasu, 4,707,985, Cl. 60-274.000.
Nagai, Toshinari; Masui, Takatoshi; Satou, Yasushi; and Katsuno, Toshiyasu, 4,712,373, Cl. 60-274.000.
Naganawa, Tadahisa; and Matsuda, Yoshihiko, 4,658,785, Cl. 123-406.000.
Nagano, Shuji; Ida, Shuichiro; and Yoshinaka, Toshio, 4,679,449, Cl. 74-12.000.
Nagano, Shuji; Ida, Shuichiro; Yoshinaka, Toshio; and Okuda, Shozo, 4,690,015, Cl. 74-665.0GE.
Nagasaka, Yasumasa, 4,636,160, Cl. 425-190.000.
Nagasaka, Yasumasa; and Takasaki, Akira, 4,699,581, Cl. 425-155.000.
Nagase, Masaomi; Takemoto, Eiji; Ibuki, Noritaka; and Hasegawa, Takashi, 4,714,068, Cl. 123-506.000.
Naito, Tadashi; Okuda, Kenzo; Ohmori, Masakazu; Saijyo, Toru; and Imaizumi, Ken, 4,700,309, Cl. 364-468.000.
Nakamata, Hideo, 4,636,609, Cl. 219-121.0LD.
Nakamura, Hiroshi; Matsuo, Shirou; and Kawai, Noriaki, 4,669,442, Cl. 123-571.000.
Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nomura, Yoshihisa; and Ohashi, Kaoru, 4,637,487, Cl. 180-197.000.
Nakamura, Kazumasa; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Ohashi, Kaoru; and Nomura, Yoshihisa, 4,681,374, Cl. 303-106.000.
Nakamura, Naotaka; Miyamoto, Yoshimi; Momiyama, Motokazu; Tsubai, Toshiji, deceased; Teratani, Tatsuo; and Ishihara, Nobuyuki, 4,652,705, Cl. 200-19.00R.
Nakamura, Shinya; Kubo, Seitoku; and Taga, Yutaka, 4,693,081, Cl. 60-448.000.
Nakamura, Shinya; Kubo, Seitoku; and Taga, Yutaka, 4,702,083, Cl. 60-721.000.
Nakane, Mototaka; and Tanaka, Shizuo, 4,640,400, Cl. 192-70.250.
Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; Nomura, Yoshihisa; Noguchi, Noboru; and Shibata, Hirochika, 4,668,024, Cl. 303-119.000.
Nakanishi, Nobuyasu; and Nomura, Yoshihisa, 4,703,979, Cl. 303-116.000.
Nakanishi, Nobuyasu; Ishikawa, Masakazu; Shirai, Akira; and Noguchi, Noboru, 4,715,664, Cl. 303-111.000.
Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Takata, Mamoru, 4,655,182, Cl. 123-440.000.
Nakano, Jiro; Ishibashi, Takao; Akatsuka, Takao; and Kawaguchi, Masao, 4,694,809, Cl. 123-489.000.
Naruoka, Takao; Moriva, Yoshihito; and Ichimiya, Touru, 4,687,348, Cl. 384-255.000.
Nishida, Minoru; Hattori, Tadashi; Yoshimura, Kunimasa; and Muraki, Tetsuzo, 4,695,758, Cl. 313-130.000.
Nishii, Michiharu; Furuta, Youichi; Tsubouchi, Kaoru; Murata, Takeo; Shibatani, Juichi; and Kiriyama, Takashi, 4,683,807, Cl. 92-169.000.
Nishikawa, Masumi; Ishikawa, Masanobu; Sato, Hiroki; Toyoda, Shuhei; and Ishii, Hakumi, 4,633,732, Cl. 74-493.000.
Nishikawa, Masumi; Ishikawa, Masanobu; and Nakashima, Hiroshi, 4,661,752, Cl. 318-434.000.
Nishikawa, Masumi; Ishikawa, Masanobu; Watanabe, Hiroshi; Kikuchi, Kenichi; and Takizawa, Sumio, 4,669,325, Cl. 74-89.150.
Nishimura, Takumi; and Shibata, Hirochika, 4,652,061, Cl. 303-116.000.
Nishimura, Takumi; Saito, Tadao; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,700,991, Cl. 303-113.000.
Nishiyama, Yuji; and Hashimoto, Masakazu, 4,669,782, Cl. 297-473.000.
Nishiyama, Yuji; Kitano, Tateo; and Hashimoto, Masakazu, 4,673,217, Cl. 297-473.000.
Noba, Masahiko, 4,651,922, Cl. 236-35.000.
Noda, Naoki; Nihashi, Iwao; and Sato, Kazuhiro, 4,710,608, Cl. 219-161.000.
Noguchi, Yoshikazu; Yokoi, Tatsuhisa; Takeya, Eisaku; and Osawa, Hideyuki, 4,648,373, Cl. 123-568.000.
Nohira, Hidetaka, 4,696,265, Cl. 123-90.160.
Nomura, Iwao; Masuyama, Takayuki; Tanigawa, Yasuo; and Hasimoto, Hirofumi, 4,636,136, Cl. 414-730.000.
Nomura, Kazuhiro; and Nomura, Masayuki, 4,641,881, Cl. 296-202.000.
Nomura, Kazuhiro, 4,678,198, Cl. 280-153.00A.
Nomura, Yoshihisa; Oka, Hiroyuki; and Otsuki, Hiromi, 4,640,558, Cl. 303-119.000.
Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, 4,648,663, Cl. 303-106.000.
Nomura, Yoshihisa; Ishikawa, Masakazu; Shirai, Akira; Nogami, Takahiro; Nakamura, Kazumasa; and Ohashi, Kaoru, 4,681,373, Cl. 303-106.000.
Nomura, Yoshihisa; Suda, Koichi; and Kozawa, Tadashi, 4,694,734, Cl. 92-130.00R.
Nonoyama, Hideo; Fukuizumi, Toshiharu; and Morita, Akiyoshi, 4,681,642, Cl. 148-321.000.
Nouno, Yasushi, 4,676,203, Cl. 123-90.420.
Oba, Hidehiro, 4,685,436, Cl. 123-492.000.
Obayashi, Hideki; Kawai, Hisasi; Ina, Toshikazu; Shigematsu, Takashi; Tokoro, Setsuo; and Kohama, Tokio, 4,691,286, Cl. 364-431.040.
Ogo, Kazutaka; Hayashi, Masahiro; Suzuki, Takatoshi; Hokao, Katsuiku; Asai, Akio; and Tsuruhashi, Takayuki, 4,709,198, Cl. 318-571.000.
Ohashi, Kaoru; Kobayashi, Ikuya; Nogami, Takahiro; Shirai, Akira; Nakamura, Kazumasa; and Nomura, Yoshihisa, 4,685,547, Cl. 192-3.00R.
Ohe, Junzo; and Kondo, Hiroshi, 4,679,052, Cl. 343-712.000.
Ohe, Junzo; and Kondo, Hiroshi, 4,707,701, Cl. 343-712.000.
Ohta, Hisatoshi, 4,644,235, Cl. 318-282.000.
Ohyama, Yasuo, 4,645,316, Cl. 350-632.000.
Ohyama, Yasuo, 4,668,059, Cl. 350-632.000.
Oishi, Kiyohiko; Nakanishi, Kiyoshi; Kayanuma, Nobuaki; Kawai, Taiyo; Nakagawa, Norihisa; and Nomura, Hiroshi, 4,667,636, Cl. 123-432.000.
Okada, Mitsuhiko; Itoh, Hiroshi; Kato, Nobuyuki; and Takada, Mitsuru, 4,669,336, Cl. 74-867.000.
Okada, Mitsuhiko; and Ito, Hiroshi, 4,682,519, Cl. 74-868.000.
Okamoto, Yuji; and Nakamura, Shunichi, 4,649,669, Cl. 49-489.000.
Okamoto, Yuji, 4,663,888, Cl. 49-441.000.
Okano, Hiroshi; Kawai, Yukio; and Ii, Akira, 4,644,784, Cl. 73-117.300.
Okawa, Susumu; Ogino, Izumi; and Okuwaki, Shigeru, 4,645,477, Cl. 474-201.000.
Okawa, Susumu; Jufuku, Yasunobu; Okuwaki, Shigeru; Kondou, Takayoshi; Endo, Toshiya; and Nakata, Shigenori, 4,655,734, Cl. 474-242.000.
Okumura, Katsuhiro, 4,694,611, Cl. 49-441.000.
Okumura, Takeshi; and Iwashita, Yoshihiro, 4,669,434, Cl. 123-308.000.
Okumura, Takeshi, 4,699,104, Cl. 123-308.000.
Ono, Kenzi, 4,648,205, Cl. 49-374.000.
Oohori, Harumi, 4,698,536, Cl. 310-168.000.
Ooishi, Shogo, 4,650,123, Cl. 239-703.000.
Oosawa, Kouichi; and Kinoshita, Yoshiaki, 4,715,184, Cl. 60-602.000.
Osanai, Akinori; and Niwa, Takao, 4,642,068, Cl. 474-11.000.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,649,485, Cl. 364-424.100.
Osanai, Akinori; Gono, Takeshi; and Niwa, Takao, 4,649,487, Cl. 364-424.100.
Osanai, Akinori; Gono, Takeshi; and Niwa, Takao, 4,649,488, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,653,004, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,653,005, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,653,006, Cl. 364-424.100.
Osanai, Akinori; and Niwa, Takao, 4,653,007, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,656,587, Cl. 364-424.100.

Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,658,360, Cl. 364-424.100.
Osanai, Akinori; Niwa, Takao; and Gono, Takeshi, 4,683,779, Cl. 74-861.000.
Osanai, Akinori, 4,701,853, Cl. 364-424.100.
Osanai, Akinori, 4,704,683, Cl. 364-424.100.
Ota, Isamu; Nishimura, Yutaka; Nishio, Shigeru; and Yogo, Kenji, 4,700,682, Cl. 123-516.000.
Ota, Kazuhide; and Abe, Susumu, 4,705,762, Cl. 501-87.000.
Otani, Tetsurou; Takumi, Shigeji; and Suzuki, Choichi, 4,664,074, Cl. 123-41.310.
Otsuka, Yukio; Kawai, Hiroshi; Iida, Kiyomi; and Nakano, Hironobu, 4,671,338, Cl. 164-150.000.
Otsuki, Hiromi; Numata, Kenichi; Matsuura, Ryoichi; Nomura, Yoshihisa; Nakanishi, Nobuyasu; and Oka, Hiroyuki, 4,715,667, Cl. 303-119.000.
Ozawa, Isao; Ito, Noboru; Takizawa, Masaaki; Ohta, Yoshio; and Ijichi, Kiyoteru, 4,635,910, Cl. 267-140.100.
Ryu, Nobuyuki, 4,635,964, Cl. 280-804.000.
Saito, Muneo; and Hayakawa, Shoichi, 4,673,921, Cl. 340-539.000.
Saito, Taiji; and Kotani, Akira, 4,702,079, Cl. 60-599.000.
Saito, Tsutomu; Egami, Tsuneyuki; Kohama, Tokio; Saito, Kimitaka; Takahashi, Hiroshi; and Sato, Kunihiko, 4,633,840, Cl. 123-489.000.
Sakai, Takahiro; and Minemoto, Isamu, 4,688,451, Cl. 74-867.000.
Sakarai, Kazuhiro; and Hattori, Kyo, 4,700,669, Cl. 123-188.00M.
Saotome, Kaoru; Sasaki, Hiroyuki; and Kanbara, Katsuhiro, 4,705,244, Cl. 248-68.100.
Sasaki, Kan; Takimura, Keisuke; Katayama, Nobuaki; and Tsuchiya, Fumitomo, 4,645,029, Cl. 180-249.000.
Sasaki, Kan; Takimura, Keisuke; and Katayama, Nobuaki, 4,697,470, Cl. 74-701.000.
Sasaki, Shizuo, 4,667,530, Cl. 123-254.000.
Sasaki, Shoji, 4,684,319, Cl. 415-164.000.
Sasaki, Shoji, 4,685,869, Cl. 417-407.000.
Sasaki, Torahiko; Tange, Kyoichi; Okawa, Masahiro; and Suzuki, Yoshihiro, 4,663,251, Cl. 429-29.000.
Sasaki, Toratiko; Tange, Kyoichi; Okawa, Masahiro; and Suzuki, Yoshihiro, 4,677,039, Cl. 429-14.000.
Sasaki, Torahiko; Sato, Kazuo; Ohkawa, Masahiro; Suzuki, Yoshihiro; Kubota, Masato; Nakao, Hatsuo; and Tange, Kyoichi, 4,696,870, Cl. 429-14.000.
Sato, Akira; Sato, Kazuo; Saito, Takaharu; Shima, Junkoh; Mizutani, Kansei; and Mikawa, Toshimasa, 4,713,767, Cl. 364-453.000.
Sato, Hiroki; Sanada, Yukitomo; Yokoya, Yuji; Masaki, Kazuo; Nakagawa, Kiyohara; and Murata, Syuuji, 4,681,143, Cl. 137-625.370.
Sato, Kunihiko, 4,696,274, Cl. 123-440.000.
Satou, Yasuo, 4,693,227, Cl. 123-575.000.
Sawada, Daisaku; Sugaya, Masami; Imai, Ryuji; and Soga, Yoshinobu, 4,642,069, Cl. 474-28.000.
Sawada, Daisaku; Sugaya, Masami; Soga, Yoshinobu; and Imai, Ryuji, 4,685,357, Cl. 74-867.000.
Sawada, Hiroshi; and Urushidani, Masahiro, 4,653,452, Cl. 123-491.000.
Sawada, Hiroshi; and Murai, Toshimi, 4,697,567, Cl. 123-489.000.
Sawada, Koji; and Suzuki, Makoto, 4,667,764, Cl. 180-297.000.
Sawada, Kouji; Miura, Kiyokatsu; Suzuki, Kenchiro; Idosako, Hidetaka; and Kazusa, Hideo, 4,714,368, Cl. 403-132.000.
Seo, Kiyokazu; Furuhashi, Kuniyoshi; Natori, Sadaaki; and Matsumoto, Masashi, 4,653,230, Cl. 49-502.000.
Shigematsu, Takashi; Watanabe, Tomoyuki; Tokoro, Setsuo; and Sawada, Daisaku, 4,715,258, Cl. 74-866.000.
Shiki, Kazuhiro; and Iura, Takao, 4,638,781, Cl. 123-493.000.
Shindo, Yoshio; and Iwatsuki, Kunihiro, 4,674,364, Cl. 74-867.000.
Shinohara, Toshio, 4,635,257, Cl. 371-12.000.
Shirai, Hisao; Sibata, Takuo; and Izuo, Takashi, 4,647,008, Cl. 251-129.070.
Shiraishi, Daiichi; Iwasaki, Eiji; and Fukumoto, Ryoichi, 4,644,695, Cl. 49-352.000.
Shiroshita, Osamu; Ishiguro, Yasuo; and Tou, Yoshizumi, 4,712,183, Cl. 364-513.000.
Sogabe, Ichita; Murata, Shuuji; and Yokoya, Yuji, 4,647,010, Cl. 251-129.120.
Sogabe, Ichita; Murata, Syuuji; and Yokoya, Yuji, 4,691,135, Cl. 310-254.000.
Sugiyama, Matsuyoshi, 4,669,263, Cl. 60-39.080.
Sumiya, Koji; Kano, Takenori; Kubo, Seitoku; and Watanabe, Kazuaki, 4,682,534, Cl. 92-130.00R.
Sumiya, Koji; Watanabe, Kazuaki; and Kubo, Seitoku, 4,690,037, Cl. 92-130.00R.
Sumiya, Koji; Sakaguchi, Yoshikazu; Taniguchi, Takuji; Taga, Yutaka; and Shindo, Yoshio, 4,697,474, Cl. 74-733.000.
Suzaki, Shunkichi; Shirai, Toshiaki; Adachi, Hisanobu; Hayashi, Masaharu; Hattori, Kenji; and Takakura, Yoshinari, 4,687,132, Cl. 236-35.000.
Taga, Yutaka; and Morisawa, Kunio, 4,660,693, Cl. 192-0.075.
Taga, Yutaka; Morisawa, Kunio; Uno, Toshihiko; Ito, Masami; and Haneda, Takashi, 4,669,562, Cl. 180-53.100.
Taga, Yutaka; and Morisawa, Kunio, 4,691,594, Cl. 74-869.000.
Taga, Yutaka; Kubo, Seitoku; Kashihara, Yuji; Morisawa, Kunio; Takada, Mitsuru; and Nakamura, Yasunari, 4,702,341, Cl. 180-249.000.
Takada, Mitsuru; Itoh, Hiroshi; Hiramatsu, Shigeki; and Tamura, Tadashi, 4,682,518, Cl. 74-867.000.
Takagi, Soya; and Fukuizumi, Toshiharu, 4,658,111, Cl. 219-125.100.
Takahashi, Hiroshi; Tamura, Masanobu; and Sato, Kunihiko, 4,705,004, Cl. 123-491.000.
Takahashi, Shigeo; Hasegawa, Hiromi; Furusawa, Choji; and Morisawa, Kunio, 4,651,773, Cl. 137-315.000.
Takahashi, Tokuyuki; Kuramochi, Koujiro; and Sayou, Syoichi, 4,690,239, Cl. 180-249.000.
Takahashi, Yoshinobu; and Kojima, Masayuki, 4,663,016, Cl. 204-299.0EC.
Takeda, Yuji; Anzai, Katsushi; Harada, Osamu; and Suematsu, Toshio, 4,655,186, Cl. 123-480.000.
Takeda, Yuji; Suematsu, Toshio; Harada, Osamu; and Anzai, Katsushi, 4,664,086, Cl. 123-489.000.
Takeda, Yuji; Anzai, Katsushi; Harada, Osamu; and Suematsu, Toshio, 4,688,534, Cl. 123-339.000.
Takemura, Shinji; Hida, Tsuneo; Matsuzaki, Yutaka; and Ohnishi, Kenichi, 4,634,945, Cl. 318-469.000.
Takeshita, Hajime; Iwase, Takahiro; Masuda, Naofumi; Sibata, Tatsuo; Mochizuki, Hiroyuki; Kobayashi, Nobuo; Kawakami, Seiho; and Kuroiwa, Yosio, 4,693,813, Cl. 409-244.000.
Takeshita, Keiji; Hamano, Hideo; Ohshima, Shoichi; Suzuki, Takaaki; and Ida, Shuichiro, 4,674,600, Cl. 184-6.120.
Takeuchi, Hitoshi; Yamada, Naoki; Ikemura, Hisao; and Suzuki, Noriyasu, 4,676,189, Cl. 118-626.000.
Takeuchi, Hitoshi; and Ooishi, Shogo, 4,700,896, Cl. 239-693.000.
Takeuchi, Yasuhiro; Sakakibara, Yasuyuki; Igashira, Toshihiko; and Nohira, Hidetaka, 4,711,216, Cl. 123-447.000.
Tanahashi, Haruhiko, 4,650,211, Cl. 280-701.000.
Tanaka, Atsuo; Kajikawa, Yoshiaki; Maeda, Yorishige; Machida, Shiro; and Dohnomoto, Tadashi, 4,669,367, Cl. 92-227.000.
Tanaka, Atsuo; and Dohnomoto, Tadashi, 4,696,866, Cl. 428-614.000.
Tanaka, Kenzi; Gomi, Koichi; Fukuda, Tamotsu; and Hayashi, Masataka, 4,671,240, Cl. 123-463.000.
Tanaka, Toshiaki; Niwa, Hitoshi; Mukai, Hirokatsu; Miwa, Naoto; Nara, Akio; Nomura, Etsuji; Hori, Makoto; Hasegawa, Koichi; and Noguchi, Hiroshi, 4,685,437, Cl. 123-549.000.
Tanaka, Toshio, 4,646,883, Cl. 188-282.000.
Taniguchi, Hiroji; Iwatsuki, Kunihiro; and Shindou, Yoshio, 4,690,017, Cl. 74-866.000.
Taniyama, Kiyoshi; and Hori, Hiroshi, 4,677,871, Cl. 74-467.000.
Tanooka, Shigeo; Mori, Yutaka; Oono, Akihiro; and Hasegawa, Akira, 4,691,796, Cl. 180-142.000.
Tatara, Yuudai; Okawa, Susumu; Matsui, Hideaki; and Nakawaki, Yasunori, 4,660,438, Cl. 74-689.000.
Tatematsu, Kazuhisa; Kondo, Tokuji; Sasaki, Shiro; and Kawamatsu, Koji, 4,666,208, Cl. 297-341.000.
Tatematsu, Yoshiaki; and Tanaka, Atsuo, 4,694,735, Cl. 92-208.000.
Tobita, Hideaki; and Naruse, Kazuo, 4,667,866, Cl. 228-4.100.
Tokoro, Setsuo; Shigematsu, Takashi; and Watanabe, Tomoyuki, 4,673,378, Cl. 474-18.000.
Tsuge, Eiji; Yanagisawa, Taminori; Yamaguchi, Takaharu; and Fukatsu, Hiroshi, 4,634,338, Cl. 414-752.000.
Tsuge, Hiroshi; Fujiwara, Akinori; and Yoshitsugu, Noritada, 4,685,741, Cl. 297-467.000.
Tsuge, Hiroshi; Fujiwara, Akinori; Yoshitsugu, Noritada; and Sugiura, Motonobu, 4,688,849, Cl. 297-250.000.
Tsukamoto, Kazumasa; Hayabuchi, Masahiro; Maeda, Koji; Watanabe, Kazuaki; and Taga, Yutaka, 4,693,348, Cl. 192-3.290.
Tsuru, Naohiko; Matsuura, Ryoichi; Otsuki, Hiromi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, 4,636,009, Cl. 303-93.000.
Tsuzuki, Isao, 4,650,202, Cl. 280-248.000.
Uchida, Goro, 4,690,039, Cl. 98-2.080.
Uchida, Goroh, 4,679,730, Cl. 237-12.30R.
Ukai, Mikio; and Okumoto, Ryouji, 4,693,484, Cl. 277-212.0FB.
Umemoto, Yonetsugu; Shirasawa, Hiroshi; Ogo, Muneya; Kinoshita, Kazumasa; and Kondo, Tetsuo, 4,690,581, Cl. 403-133.000.
Umeyama, Mitsuhiro; Wakahara, Kaoru; Ohtani, Hisao; Kametaka, Kenichi; Kinoshita, Masaru; and Kobayashi, Nobuyuki, 4,693,354, Cl. 192-106.100.
Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,651,889, Cl. 220-85.0VR.
Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,657,156, Cl. 220-85.0VS.
Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,659,346, Cl. 55-182.000.
Uranishi, Koji; Ito, Takaaki; and Tanahashi, Toshio, 4,701,198, Cl. 55-387.000.
Uranishi, Kouji; and Itoh, Takaaki, 4,690,293, Cl. 220-86.00R.
Uranishi, Kouji; and Itou, Takaaki, 4,700,683, Cl. 123-519.000.
Watanabe, Hiroyuki; and Ohashi, Mikio, 4,653,802, Cl. 296-203.000.
Watanabe, Hiroyuki; Hamada, Eiichi; Hayashi, Motomu; and Ono, Kenji, 4,697,386, Cl. 49-374.000.
Watanabe, Tomoyuki; Shigematsu, Takashi; Tokoro, Setsuo; and Hayashi, Takashi, 4,715,482, Cl. 192-0.032.
Yamada, Yukifumi; Terada, Takami; and Miyagawa, Toshihito, 4,705,318, Cl. 297-362.000.
Yamai, Yoshihiro; Hamamoto, Hideo; and Nishibe, Masami, 4,689,728, Cl. 362-268.000.
Yamamoto, Toshiaki; Kako, Hiroyoshi; Shibata, Takuo; Izuo, Takashi; Kamimae, Hajime; and Takegawa, Hiroaki, 4,696,379, Cl. 188-299.000.

Yamazawa, Yasushi; Kondo, Katsumi; Tsutiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,673,451, Cl. 156-172.000.
Yano, Hideo; Kano, Keiichi; Ozawa, Hitoshi; Kato, Shinji; and Takagi, Yoshio, 4,666,786, Cl. 428-544.000.
Yano, Toshihide, 4,671,534, Cl. 280-707.000.
Yao, Hiroyuki; and Okamoto, Yuji, 4,691,476, Cl. 49-374.000.
Yasue, Hideki; and Fukumura, Kagenori, 4,700,591, Cl. 74-868.000.
Yasue, Hideki; and Fukumura, Kagenori, 4,709,597, Cl. 74-868.000.
Yasui, Yasuyoshi; and Hori, Hiroshi, 4,658,670, Cl. 74-710.000.
Yasukawa, Masao; and Taguchi, Yukiyasu, 4,640,147, Cl. 74-409.000.
Yasukawa, Masao; Morita, Shuji; and Fujita, Hiroya, 4,688,441, Cl. 74-409.000.
Yasukawa, Masao, 4,690,104, Cl. 123-41.320.
Yogo, Kenji, 4,714,193, Cl. 236-75.000.
Yokoi, Tatsuhisa; Takeya, Eisaku; Hattori, Kyo; Abe, Kazuo; and Osawa, Hideyuki, 4,672,939, Cl. 123-568.000.
Yokota, Hiroshi, 4,647,262, Cl. 411-44.000.
Yokoya, Yuji; Buma, Shuuichi; Araki, Hitoshi; Miyata, Hiroshi; Hirose, Masanori; and Ohashi, Kaoru, 4,648,621, Cl. 280-707.000.
Yokoyama, Fumitomo; Kuwayama, Yoshinari; Tatsuta, Mitsugu; and Kuramochi, Koujiro, 4,683,903, Cl. 137-56.000.
Yonemoto, Kenji, 4,635,958, Cl. 280-664.000.
Yoshida, Mamoru; and Kamemoto, Mituo, 4,634,275, Cl. 356-121.000.
Yoshida, Moritaka, 4,656,887, Cl. 74-493.000.
Yoshida, Shigeru; and Koeda, Kenji, 4,658,796, Cl. 123-519.000.
Yoshida, Takeshi; Honda, Takayasu; Kitazume, Shunosuke; and Tanaka, Kouzou, 4,637,653, Cl. 297-334.000.
Yoshikawa, Hayato; and Morisaka, Manabu, 4,637,298, Cl. 98-2.080.
Yoshinaka, Toshio; and Nagano, Syuji, 4,678,055, Cl. 180-247.000.
Yoshinaka, Toshio; Taniguchi, Toshikatsu; Ida, Shuichiro; Nagano, Shuji; Kimura, Shigeru; and Tanaka, Yasuo, 4,711,136, Cl. 74-665.0GA.
Yoshinaka, Toshio; and Nagano, Shuji, 4,714,128, Cl. 180-247.000.
Yoshitsugu, Noritada, 4,671,537, Cl. 280-804.000.
Yoshitsugu, Noritada, 4,681,346, Cl. 280-804.000.
Yoshitsugu, Noritada, 4,708,367, Cl. 280-804.000.
Yoshitsugu, Noritada, 4,711,468, Cl. 280-804.000.

Toyota Jidosha Kabusiki Kaisha: *See—*
Shimozi, Kozi; and Teshima, Hitoshi, 4,698,213, Cl. 422-179.000.

Toyota Jidosha Kogyo Kabushiki Kaisha: *See—*
Kubo, Seitoku; Kuramochi, Koujiro; and Kyushima, Tatsuo, 4,676,123, Cl. 74-695.000.
Maruyama, Katsuaki; Oishi, Yaichi; Terada, Takami; and Hyodo, Motoi, 4,652,049, Cl. 297-284.000.
Sogo, Yoshitaka; Fukushima, Masami; and Kuzuya, Tetsuro, 4,683,771, Cl. 74-467.000.
Yamamoto, Junji; Kanou, Noboru; and Usami, Masayuki, 4,662,672, Cl. 296-224.000.

Toyota, Koji: *See—*
Yamada, Takemi; Satoh, Tamataro; Mizushina, Masaaki; Toyota, Koji; and Okamoto, Hiromi, 4,661,371, Cl. 427-49.000.

Toyota, Makoto; Takeshita, Fumitaka; and Arakawa, Satoshi, to Fuji Photo Optical Co., Ltd. Endoscope for displaying a normal image. 4,697,210, 9-29-87, Cl. 358-98.000.

Toyota, Makoto: *See—*
Arakawa, Satoshi; Toyota, Makoto; and Takeshita, Fumitaka, 4,667,230, Cl. 358-98.000.
Cooper, David H.; Toyota, Makoto; and Hunyady, Janos L., 4,667,229, Cl. 358-98.000.
Cooper, David H.; Toyota, Makoto; and Arakawa, Satoshi, 4,692,608, Cl. 250-216.000.

Toyota Motor Corporation: *See—*
Fujiura, Kaiya; Hayakawa, Yoichi; Taga, Yutaka; and Nakamura, Shinya, 4,663,992, Cl. 74-869.000.
Hosono, Chihiro; Hayakawa, Yoichi; Kubo, Seitoku; Taga, Yutaka; and Nakamura, Shinya, 4,673,072, Cl. 192-3.570.
Kuroishi, Nobuhito; Motooka, Naoki; Suganuma, Tetsuya; and Manabe, Akira, 4,671,491, Cl. 251-368.000.
Shirai, Ryoichi; Yokoyama, Fumitomo; and Kuramochi, Koujiro, 4,645,441, Cl. 418-126.000.
Takata, Hideyuki; Tokushima, Yasuo; Katoh, Kaname; and Tachi, Hideo, 4,670,994, Cl. 34-39.000.
Washimi, Kouichi; Shibata, Makoto; and Ugajin, Mitsuyuki, 4,645,213, Cl. 277-53.000.
Yamada, Yoshihiro; Kawamoto, Mutsumi; Iwatsuki, Tatsuya; and Kuramochi, Koujiro, 4,646,890, Cl. 192-30.00V.
Yokoyama, Shoji; and Miki, Nobuaki, 4,664,235, Cl. 192-3.290.

Toyota Shatai Kabushiki Kaisha: *See—*
Maeda, Yoshihiko; Nogami, Toshiaki; Kashiwagi, Shigeru; Sakurai, Kenji; and Nishiyama, Kunio, 4,702,517, Cl. 296-214.000.
Shibuki, Osamu; Matsuyama, Noboru; Nagasawa, Yoshiaki; Kawai, Katsuhiro; Sakagami, Shigeru; and Onoyama, Toshiaki, 4,641,065, Cl. 318-135.000.
Shibuki, Osamu; Matsuyama, Noboru; Umemura, Yoichi; Kamiya, Atsushi; Fujii, Takaya; Seki, Masayuki; and Ohta, Norio, 4,664,352, Cl. 248-562.000.

Toyoto Jidosha Kabushiki Kaisha: *See—*
Furuta, Yohichi; Yamasaki, Takeo; Tachino, Tomio; and Tanikawa, Masayoshi, 4,643,043, Cl. 74-503.000.

Toyotomi Kogyo Co., Ltd.: *See—*
Nakamura, Kazuharu; and Nakanishi, Yutaka, 4,668,179, Cl. 431-121.000.
Nakamura, Kazuharu; Matsumoto, Motoki; Kondo, Akinobu; and Ito, Kiyonobu, 4,710,125, Cl. 431-22.000.
Nakanishi, Yutaka; Yamada, Toshihiko; Sanada, Yuji; and Kawai, Takashi, 4,714,426, Cl. 431-132.000.

Tozaki, Hiroshi: *See—*
Watanabe, Yuki; and Tozaki, Hiroshi, 4,640,612, Cl. 355-87.000.

Tozawa, Takashi; Endo, Masahiro; and Eiraku, Yukio, to Mitsubishi Chemical Industries, Ltd. Composition for reducing the phytotoxicity of agricultural machine oil containing a sucrose fatty acid ester and/or urea. 4,665,059, 5-12-87, Cl. 514-53.000.

Tozawa, Yoshio, to International Business Machines Corporation. Color image display system. 4,654,720, 3-31-87, Cl. 358-283.000.

Tozima, Hitoshi: *See—*
Nakata, Akira; Matsumoto, Shiroh; Tozima, Hitoshi; and Minato, Masahiko, 4,712,706, Cl. 220-276.000.

Tozzolino, Pierre: *See—*
Rosa, Jean; Castaigne, Jean-Paul; Demarne, Henri; and Tozzolino, Pierre, 4,642,306, Cl. 514-222.000.

TP Orthodontics, Inc.: *See—*
Hall, Arthur B., 4,695,417, Cl. 264-80.000.
Kesling, Christopher K., 4,676,747, Cl. 433-18.000.

TPO "Pharmachim": *See—*
Atanassova, Ivanka A.; Haimova, Marieta A.; Chavdarova, Veselina B; Nakov, Anton I.; Petkov, Nedelcho G.; and Avramova, Ruska S., 4,711,956, Cl. 540-327.000.
Ivanova, Nedyalka S.; Nikolova, Milka P.; Ivanov, Chavdar B.; Dryanska, Margarita D.; and Zabunova, Orhideya B., 4,666,918, Cl. 514-307.000.

TPV Energy Systems, Inc.: *See—*
Hottel, Hoyt C.; Nelson, Robert E.; and Parent, C. Robert, 4,707,560, Cl. 136-253.000.

TR Co., Ltd.: *See—*
Takanashi, Tadao, 4,649,974, Cl. 150-100.000.

Traa, Einar O., to Tektronix, Inc. Analog-to-digital converter error correction circuit. 4,712,087, 12-8-87, Cl. 340-347.0CC.

Traa, Einar O., to Tektronix, Inc. Voltage reference for transistor constant-current source. 4,714,872, 12-22-87, Cl. 323-314.000.

Traber, Jorg: *See—*
Boltze, Karl-Heinz; Etschenberg, Eugen; Traber, Jorg; and Bergen, Herbert, 4,647,560, Cl. 514-220.000.

Traber, Rene P.: *See—*
Wenger, Roland; Traber, Rene P.; Kobel, Hans; and Hofmann, Hans, 4,639,434, Cl. 514-11.000.

Tracer Research Corporation: *See—*
Thompson, Glenn M., 4,709,577, Cl. 73-40.700.

Tracer Technologies, Inc.: *See—*
Ajami, Alfred M., 4,707,230, Cl. 204-131.000.

Tracez, Jean C.: *See—*
Jdid, El aid; Blazy, Pierre; Bessiere, Jacques; Tracez, Jean C.; and Haicour, Philippe, 4,656,012, Cl. 423-11.000.

Trachte, Dietrich: *See—*
Eblen, Ewald; Hofmann, Karl; Holzgrefe, Volker; Pigeroulet, Jean; Rodriguez-Amaya, Nestor; Simon, Nikolaus; Trachte, Dietrich; Weiss, Friedrich; and Ziegler, Ewald, 4,653,455, Cl. 123-506.000.

Trachtman, Joseph N. Methods and apparatus for accommodation training. 4,660,945, 4-28-87, Cl. 351-203.000.

Tracker Mounts Inc.: *See—*
Fleming, Terry, 4,654,670, Cl. 343-882.000.

Tractech, Inc.: *See—*
Choma, Alvin A.; and Edwards, Timothy R., 4,644,818, Cl. 74-650.000.
Dissett, Walter L., 4,677,876, Cl. 74-715.000.

Tractiontec Corporation: *See—*
Kemper, Yves J., 4,694,701, Cl. 74-191.000.

Tractor Plow Co., Inc.: *See—*
Lawrence, Ventura J.; Metcalf, Charles G.; and Silva, Lawrence H., 4,640,367, Cl. 172-225.000.

Tracy, C. Edwin; Benson, David K.; and Ruth, Marta R., to United States of America, Energy. Low voltage solid-state lateral coloration electrochromic device. 4,645,308, 2-24-87, Cl. 350-357.000.

Tracy, C. Edwin; Benson, David K.; and Ruth, Marta R., to United States of America, Energy. Method of synthesizing a plurality of reactants and producing thin films of electro-optically active transition metal oxides. 4,687,560, 8-18-87, Cl. 204-164.000.

Tracy, C. Edwin: *See—*
Benson, David K.; and Tracy, C. Edwin, 4,650,919, Cl. 136-212.000.
Benson, David K.; and Tracy, C. Edwin, 4,683,154, Cl. 428-34.000.

Tracy, David H.; O'Brien, Michael J.; and Bohler, Walter, to Perkin-Elmer Corporation, The. Apparatus for monitoring a plasma torch. 4,640,627, 2-3-87, Cl. 374-121.000.

Tracy, David J.; Login, Robert B.; and Hashem, Mohamed M., to GAF Corporation. Lactam copolymers. 4,698,412, 10-6-87, Cl. 528-323.000.

Tracy, David J.: *See—*
Chaudhuri, Ratan K.; Login, Robert B.; and Tracy, David J., 4,713,463, Cl. 548-517.000.

Tracy, John G.: *See—*
Raddi, William J.; Johnson, Robert W., Jr.; Tracy, John G.; and Sonnenberg, Blazej W., 4,673,825, Cl. 307-66.000.

Tracy, John M.; Yeh, Pochi A.; and Khoshnevisan, Mohsen, to Rockwell International Corporation. Phase conjugate relative position sensor. 4,640,618, 2-3-87, Cl. 356-345.000.

Tracy, Michael: *See—*
Acton, Edward M.; Ryan, Kenneth J.; and Tracy, Michael, 4,705,850, Cl. 536-1.100.

Tracy, Stephen E., to Spider Staging, Inc. Method and apparatus for mounting a davit on a roof structure. 4,714,226, 12-22-87, Cl. 240-544.000.
Traczyk, Edward S.; and Shulski, Michael M., to National Can Corporation. Method and apparatus for necking and flanging containers. 4,693,108, 9-15-87, Cl. 72-370.000.
Traczyk, Jan; Brejnak, Jacek; and Kawalec, Krzysztof, to Instytut Lotnictwa. Ultrasonic channel diffuser. 4,696,622, 9-29-87, Cl. 415-211.000.
Tradgårdh, Paul: *See*—
Billberg, Alf; and Tradgårdh, Paul, 4,651,509, Cl. 53-565.000.
Traenckner, Hans-Joachim: *See*—
Stahl, Hans G.; Hohlein, Peter; Traenckner, Hans-Joachim; Fleiter, Lothar; and Schwindt, Jurgen, 4,684,691, Cl. 524-534.000.
Traffanstedt, Albert J.; and Traffanstedt, Roy. Heated socks. 4,705,935, 11-10-87, Cl. 219-211.000.
Traffanstedt, Roy: *See*—
Traffanstedt, Albert J.; and Traffanstedt, Roy, 4,705,935, Cl. 219-211.000.
Traffic Transport Engineering, Inc.: *See*—
Stuart, Gerald W., 4,693,651, Cl. 410-30.000.
Trage, Burkhard; and Leitz, Richard, to Balcke-Dürr Aktiengesellschaft. Natural-draft cooling tower with forced-draft flow over reflux condensers. 4,690,207, 9-1-87, Cl. 165-113.000.
Tragen, Barry J., to Microscience Corporation. Method and apparatus for facilitating production of electronic circuit boards. 4,674,007, 6-16-87, Cl. 361-404.000.
Tragita, Patrick J.: *See*—
Bloom, Robert D.; Carrington, James E.; Ide, Richard A.; Traglia, Patrick J.; and Westcott, Gerald R., 4,649,501, Cl. 364-519.000.
Trahan, Charles R., to General Instrument Corporation. Scrambled signal detector. 4,672,440, 6-9-87, Cl. 380-15.000.
Trahan, Curtis J.; Trahan, Mary C.; and Spector, George. Carry bag convertible to a mat. 4,681,195, 7-21-87, Cl. 190-2.000.
Trahan, Francis B. Golf playing field with ball detecting radar units. 4,673,183, 6-16-87, Cl. 273-176.00A.
Trahan, Mary C.: *See*—
Trahan, Curtis J.; Trahan, Mary C.; and Spector, George, 4,681,195, Cl. 190-2.000.
Trahan, Wesley J.; and Momandon, Albert B. Temperature responsive gas controller apparatus. 4,678,117, 7-7-87, Cl. 236-92.00A.
Trahin, Jean-Pierre: *See*—
Neri, Jean-Philippe; and Trahin, Jean-Pierre, 4,672,157, Cl. 200-144.00R.
Trail, George C., Jr.: *See*—
Whitley, Cornell, Jr.; Millen, William L.; and Trail, George C., Jr., 4,699,606, Cl. 493-4.000.
Trailer Marine Transport: *See*—
Dudley, Daniel P., 4,659,273, Cl. 411-373.000.
Trailer Marine Transport Corporation: *See*—
Sain, Bernard S., 4,633,767, Cl. 98-6.000.
Trailer Rail Partners: *See*—
Bakk, Charles M.; and Levinson, Samuel H., 4,653,966, Cl. 410-1.000.
Trailer Train Company: *See*—
Brodeur, Rene H.; and Terlecky, Boris S., 4,681,040, Cl. 105-3.000.
Terlecky, Boris S., 4,636,119, Cl. 410-54.000.
Trailigaz "Cie Generale de l'Ozone": *See*—
Chapsal, Paul; and Petitimbert, Jean-Francois, 4,680,686, Cl. 363-10.000.
Trailmobile Inc.: *See*—
Ehrhart, Leonard M., 4,641,846, Cl. 280-80.00B.
Train, Ian C. Pre-expander for expandable polymer beads. 4,676,739, 6-30-87, Cl. 432-34.000.
Trainer, Michael N., to General Signal Corporation. Photoelastic measuring transducer and accelerometer based thereon. 4,648,274, 3-10-87, Cl. 73-517.00R.
Trainer, William E.: *See*—
Roberts, Auston K.; Trainer, William E.; Nakamura, Steve; Duffin, Leon C.; and Biederman, David L., 4,686,094, Cl. 423-322.000.
Trainor, Diane A.: *See*—
Dutta, Anand S.; Stein, Ross L.; Trainor, Diane A.; and Wildonger, Richard A., 4,691,007, Cl. 530-331.000.
Trainor, Fred M., to Avcor Health Care Products, Inc. Bandage. 4,665,909, 5-19-87, Cl. 128-155.000.
Trainor, Willis H., to ADB-Alnaco, Inc. Modular high-intensity elevated runway edge or threshold light. 4,638,411, 1-20-87, Cl. 362-145.000.
Traitler, Helmut; and Winter, Heike, to Nestec S.A. Nutritive compositions containing fatty substances and a process for the preparation thereof. 4,703,060, 10-27-87, Cl. 514-549.000.
Trajmar, Sandor, to United States of America, National Aeronautics and Space Administration. Isotope separation using tuned laser and electron beam. 4,704,197, 11-3-87, Cl. 204-157.220.
Trak Incorporated: *See*—
Feichtlbauer, Werner, 4,714,266, Cl. 280-604.000.
Trambarulo, Ralph F.: *See*—
Gans, Michael J.; Schneider, Martin V.; and Trambarulo, Ralph F., 4,689,631, Cl. 343-781.00R.
Trambauer, Karl: *See*—
Eibl, Johann; Schwarz, Otto; Elsinger, Fritz; Wober, Gunter; Philapitsch, Anton; Linnau, Yendra; Dorner, Friedrich; Trambauer, Karl; and Frechinger, Wolfgang, 4,640,834, Cl. 424-94.000.
Trammell, Harold L., Jr.: *See*—
Conaway, Douglas E.; and Trammell, Harold L., Jr., 4,675,540, Cl. 307-115.000.
Trammell, Lyndale A.: *See*—
Chiu, Anthony M.; Allison, Mark D.; Jones, James W.; Trammell, Lyndale A.; and San Ho, Fock, 4,639,664, Cl. 324-73.0AT.
Trammell, William M.; Hutchens, Criswell G.; Gilliland, John R.; and Hill, Stanton R., to Trammell, William M. Radio-telemetry inclinometer. 4,649,726, 3-17-87, Cl. 72-34.000.
Tramontano, Alfonso; and Lerner, Richard A., to Scripps Clinic & Research Foundation. Molecules with antibody combining sites that bind to hydrolytic transition states. 4,652,567, 4-21-87, Cl. 424-85.000.
Trampnau, Ulrich. Landing aid. 4,695,013, 9-22-87, Cl. 244-17.130.
Tramtec Corporation: *See*—
Thornton, Harold C., Jr.; and Hall, Clifton W., 4,693,671, Cl. 416-43.000.
Tran, Bao G.; McAdams, Hugh P.; and Childers, Jimmie D., to Texas Instruments Incorporated. Dynamic memory with improved dummy cell circuitry. 4,658,382, 4-14-87, Cl. 365-203.000.
Tran, Bao G., to Texas Instruments Incorporated. High speed testing of integratec circuit. 4,661,930, 4-28-87, Cl. 365-201.000.
Tran, Bao G.: *See*—
White, Lionel S., Jr.; Neal, Joseph H.; and Tran, Bao G., 4,654,849, Cl. 371-21.000.
Tran, Chang V. Sun screen for interior of automotive vehicle window. 4,653,797, 3-31-87, Cl. 296-95.00R.
Tran, Dung N.: *See*—
Law, Simon M.; Watteyne, Thierry L.; and Tran, Dung N., 4,667,179, Cl. 340-347.0DA.
Tran-Gia, Phuoc: *See*—
Lehnert, Ralf; Tran-Gia, Phuoc; and Lempennau, Wolfram, 4,680,784, Cl. 379-11.000.
Tran, Hiep V., to Thomson Components - Mostek Corporation. CMOS memory arrangement with reduced data line compacitance. 4,636,988, 1-13-87, Cl. 365-208.000.
Tran, Hiep V., to Thomson Components-Mostek Corp. Memory cell leakage detection circuit. 4,685,086, 8-4-87, Cl. 365-203.000.
Tran, Ke D.: *See*—
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Doege, Joachim; Paschke, Hanns-Dieter; and Tran, Ke D., 4,666,364, Cl. 414-742.000.
Tran, Loi H., to Controlled Release Technologies, Inc. Therapeutic agent delivery system and method. 4,715,850, 12-29-87, Cl. 604-82.000.
Tran, Minh Q.; and Bondeson, Anders, to Centre de Recherches en Physique des Plasma (CRPP). Device for guiding an electron beam. 4,705,988, 11-10-87, Cl. 315-4.000.
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Rutschmann, Erwin; Tran-Van, Khanh; and Wagner, Joachim, 4,709,552, Cl. 60-600.000.
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Malabarba, Adriano; Magni, Ambrogio; Strazzolini, Paolo; Cavalleri, Bruno; and Trani, Aldo, 4,661,470, Cl. 514-9.000.
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Trankle, Ewald: *See*—
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Brammall, Terrence N., 4,681,356, Cl. 292-327.000.
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Trans-Lux Corporation: *See*—
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Trans World Connections Ltd.: *See*—
Tubbs, Joseph T., 4,648,682, Cl. 339-154.00A.
Trans-World Manufacturing Corporation: *See*—
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LaRocca, John, 4,660,309, Cl. 40-5.000.
Transaction Security, Inc.: *See*—
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Transamerica DeLaval Inc.: *See*—
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Zacchio, Joseph M., 4,670,754, Cl. 342-124.000.
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Transfer Print Foils, Inc.: *See*—
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Transfield, Incorporated: *See*—
Goronszy, Mervyn C., 4,663,044, Cl. 210-610.000.
Goronszy, Mervyn C.; and Olavarria, Raul, 4,693,821, Cl. 210-241.000.
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Transitube Projet: *See*—
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Transparent Packaging Corp.: *See*—
Howarth, Robert A., Jr., 4,642,086, Cl. 493-341.000.
Transparent Paper PLC: *See*—
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Transphase Systems, Inc.: *See*—
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Transport Security Inc.: *See*—
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Transportation Specialties, Inc.: *See*—
Hailey, Michael L., 4,683,728, Cl. 70-14.000.
Tranter, Donald F.: *See*—
Dawes, Cyril; and Tranter, Donald F., 4,710,238, Cl. 148-16.600.
Trantham, Dana C., to RCA Corporation. Regulator protection circuit for video apparatus. 4,709,321, 11-24-87, Cl. 363-56.000.
Trantzas, Constantin: *See*—
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Trapani, Richard D.: *See*—
Fox, Thomas J.; Saia, Lawrence A.; Savill, Robert F., Jr.; Trapani, Richard D.; and Turner, Melvyn E., 4,668,852, Cl. 219-76.140.
Trapentsier, Petr T.: *See*—
Bremanis, Gunar A.; Kalvinsh, Ivars Y.; Antsena, Irene B.; Lukevits, Edmund Y.; Veveris, Maris M.; Frenshtein, Marina L.; Mikazhan, Valdis D.; Kauss, Valeryans Y.; Liepinsh, Edvard E.; and Trapentsier, Petr T., 4,704,403, Cl. 514-554.000.
Trapp, Donald P.: *See*—
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Trapp, Gunter H.: *See*—
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Trapp, Hans G.: *See*—
Hofmann, Franz; Trapp, Hans G.; Rietzscher, Rolf; Otto, Jurgen; Kaettlitz, Wolfgang; and Trinki, Gerd, 4,713,180, Cl. 210-773.000.
Trapp, Helmut, to Voest-Alpine Aktiengesellschaft. Device for conveying heaps of debris. 4,700,826, 10-20-87, Cl. 198-550.120.
Trapp, James M., to Elkhart Brass Manufacturing Co., Inc. Portable fire apparatus monitor. 4,674,686, 6-23-87, Cl. 239-279.000.
Trapp, Robert L.: *See*—
Schmid, Mark E.; Trapp, Robert L.; and Davidoff, Alexander E., 4,667,192, Cl. 340-825.500.
Trapy, Jean, to Institut Francais du Petrole; Automobiles Peugeout; and Automobiles Citroen. Device for improving the quality of the carburetted mixture delivered by a pneumatic injection system. 4,703,740, 11-3-87, Cl. 123-531.000.
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Trasch, Heinz-Freidrich; Rothe, Anselm; Sojka, Bernward; Werner, Wolfgang; and Wielinger, Hans, to Boehringer Mannheim GmbH. Process for the production of reagent films and reagent films produced thereby. 4,638,023, 1-20-87, Cl. 524-21.000.
Trask, Walter H., to Riggers Manufacturing Co. Crawler suspension system. 4,647,116, 3-3-87, Cl. 305-27.000.
Trask, William F.: *See*—
Provost, George A.; Trask, William F.; and Rocha, Gerald F., 4,662,037, Cl. 24-447.000.
Trast Enterprise S.r.l.: *See*—
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Traub AG: *See*—
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Trausner, Norbert: *See*—
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Traut, G. Robert; and Wilson, Geoff J., to Rogers Corporation. Parallel plate waveguide antenna. 4,647,940, 3-3-87, Cl. 343-770.000.
Traut, G. Robert, to Rogers Corporation. Structures comprised of fiber reinforced plastic. 4,656,069, 4-7-87, Cl. 428-35.000.
Traut, G. Robert, to Rogers Corporation. Radome structure. 4,659,598, 4-21-87, Cl. 428-35.000.
Traut, G. Robert; and Wilson, Geoff J., to Rogers Corporation. Surface wave antenna. 4,689,629, 8-25-87, Cl. 343-770.000.
Trauth, Hubert: *See*—
Helwig, Reinhard; Neumann, Peter; Aumueller, Alexander; and Trauth, Hubert, 4,703,072, Cl. 524-99.000.
Hettche, Albert; Weiss, Stefan; Trauth, Hubert; Lechtken, Peter; and Horner, Michael, 4,680,327, Cl. 524-110.000.
Trautman, Edwin D.; and Newbower, Ronald S., to Massachusetts General Hospital. Double indicator pulmonary edema measurement. 4,676,252, 6-30-87, Cl. 128-671.000.
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Trautmann, Walter: *See*—
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Trautwein, Franz: *See*—
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Trautwein, Wolfgang. Three-wheeled vehicle. 4,697,663, 10-6-87, Cl. 180-210.000.
Travade, Francois; and Caudron, Lionel, to Electricite u. France Service National. Apparatus for the recovery of living organisms on the rotary filters of water pumping stations. 4,676,893, 6-30-87, Cl. 210-157.000.
Travaglio, Gianclaudio: *See*—
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Traver, Frank J.; John, Simon M.; and Merrill, Duane F., to General Electric Company. Silicone coated optical fibers. 4,689,248, 8-25-87, Cl. 427-168.000.
Traver, Frank J.; and Simoneau, Edward T., to General Electric Company. Novel aminofunctional silicone compositions. 4,690,988, 10-13-87, Cl. 556-425.000.
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Travis, Alan J. B., to United Kingdom Atomic Energy Authority. Laser control system. 4,707,836, 11-17-87, Cl. 372-29.000.
Travis, Basil B. Diagnostic test reagents and method for testing liquid petroleum fuels. 4,676,931, 6-30-87, Cl. 252-408.100.
Travis, Calvin C. Inner cable lubricator. 4,671,385, 6-9-87, Cl. 184-15.100.
Travis, Tonny D. Mine dusting machine. 4,673,131, 6-16-87, Cl. 239-673.000.
Travis, William B. Tension retention anchorage. 4,642,948, 2-17-87, Cl. 52-79.130.
Travlos, Constantine M., to United States of America, Air Force. Wire carrier and loading apparatus. 4,715,549, 12-29-87, Cl. 242-25.00R.
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Traxler, Peter, to Ciba-Geigy Corporation. Novel polycyclic hydrazones of rifamycins, their manufacture, and their pharmaceutical compositions for treating tuberculosis. 4,681,938, 7-21-87, Cl. 540-458.000.

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Traylor, Paul L. Vacuum breaker. 4,646,775, 3-3-87, Cl. 137-218.000.

Traynor, Gary A., to Ames Safety Envelope Company. Envelope for magnetic disks and jackets. 4,653,639, 3-31-87, Cl. 206-444.000.

Traynor, Kevin, to Texas Instruments Incorporated. Self test semiconductor memory with error correction capability. 4,689,792, 8-25-87, Cl. 371-38.000.

Traynor, Kevin, to Texas Instruments Incorporated. Random access memory with error correction capability. 4,710,934, 12-1-87, Cl. 371-38.000.

Traynor, Lee: *See*—
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Technische (Rijks) Hogeschool: *See*—
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TRE Corporation: *See*—
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Treadwell Corporation: *See*—
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Trears, Patrick J. Methods for the removal and/or prevention of build-up of slag and composition for use in said methods. 4,684,616, 8-4-87, Cl. 501-49.000.

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Trebitz, Bernd: *See*—
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Trebor Industries, Inc.: *See*—
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Trechsel, Hans W., to TL Systems Corporation. Volume adjustment device for powder filling apparatus. 4,640,448, 2-3-87, Cl. 222-636.000.

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Treffner, Peter; and Treffner, Charles. Method and apparatus for mould-forming expanded plastics form blocks. 4,695,416, 9-22-87, Cl. 264-45.400.

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Trefilarbed Welding S.A.: *See*—
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Tregear, Geoffrey W.; Du, Yu-cang; and Niall, Hugh D., to Howard Florey Institute of Experimental Physiology and Medicine. Peptides with relaxin activity. 4,656,249, 4-7-87, Cl. 530-324.000.

Tregilgas, John H.; and Gnade, Bruce E., to Texas Instruments Incorporated. Semiconductor purification by solid state electromigration. 4,675,087, 6-23-87, Cl. 204-141.500.

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Trehan, Ashok K.; and Sanchez, Joseph P., to Warner-Lambert Company. 5-amino-6,8-difluoroquinolones as antibacterial agents. 4,668,680, 5-26-87, Cl. 514-254.000.

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Treharne, Richard W., III: *See*—
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Treiber, Fritz F., to Hobart Corporation. Method and apparatus for package labeling. 4,705,588, 11-10-87, Cl. 156-360.000.

Treiber, Fritz F.: *See*—
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Treiber, Gert: *See*—
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Treiber, Helmut: *See*—
Rauskolb, Wilfried; Treiber, Helmut; and Nitsch, Wilhelm, 4,649,422, Cl. 358-76.000.

Treiber, Jurgen: *See*—
Maisch, Wolfgang; and Treiber, Jurgen, 4,642,602, Cl. 338-162.000.

Trelby, Ib V., to F. L. Smidth & Co. A/S. Tube mill. 4,697,747, 10-6-87, Cl. 241-54.000.

Treleaven, Richard J.: *See*—
Matkan, Josef; and Treleaven, Richard J., 4,636,451, Cl. 430-109.000.
Matkan, Josef; and Treleaven, Richard J., 4,681,806, Cl. 428-402.210.

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Grafstrom, Lars M., 4,651,978, Cl. 267-8.00R.

Trema, Daniel, to Elf France. Suspension device for a vehicle wheel support arm and front-rear coupling system for said suspension. 4,702,338, 10-27-87, Cl. 180-219.000.

Tremann, Arno J.: *See*—
Aurness, Harold O.; Rowe, Blaine F.; and Tremann, Arno J., 4,650,033, Cl. 182-7.000.

Tremblay, David L.; and Asgar, Kamal, to Special Metals Corporation. Method for producing amalgamable alloy. 4,664,855, 5-12-87, Cl. 264-11.000.

Tremblay, Donald, to Marine Industrie Limitee. Scaffold for servicing vessel propellers and the like. 4,657,111, 4-14-87, Cl. 182-36.000.

Tremblay, Paul; and Tzabanakis, Georges, to Tekna Recherche & Developpement Inc. Cable clamping device. 4,635,989, 1-13-87, Cl. 294-102.100.

Tremblay, Paul; and Tzabanakis, Georges, to Tekna Recherche & Developpement Inc. Pulling eye assembly. 4,691,988, 9-8-87, Cl. 350-96.230.

Tremblay, Paul A.; and Kearns, John J., to Liposome Company, Inc., The. Process for purification of phospholipids. 4,714,571, 12-22-87, Cl. 260-403.000.

Tremblay, Remi. Concentration of silicon carbide. 4,700,898, 10-20-87, Cl. 241-14.000.

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Labombarde, Raymond A.; and Tremblay, Robert A., 4,707,970, Cl. 53-529.000.

Tremblay, Ronaldo. Trailer for a two-wheeled vehicle. 4,685,691, 8-11-87, Cl. 280-204.000.

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Tremblay, Yves: *See*—
Maciejko, Roman; and Tremblay, Yves, 4,650,278, Cl. 350-96.200.

Tremmel, Robert A.: *See*—
Combs, Daniel J.; Martin, Sylvia; Tremmel, Robert A.; Snell, Kenneth D.; Kamitani, Masaaki; Kimizuka, Ryoichi; and Koga, Takaaki, 4,699,696, Cl. 204-44.200.
Tremonti, Ronald R.: *See*—
Gindy, Sherif S.; and Tremonti, Ronald R., 4,635,025, Cl. 338-5.000.
Tremoulet, Joseph C.: *See*—
Heard, Roderick S.; and Tremoulet, Joseph C., 4,689,768, Cl. 364-900.000.
Tremper, Alan W.: *See*—
Labaw, Clifford S.; and Tremper, Alan W., 4,705,862, Cl. 548-215.000.
Tremper, Donald: *See*—
Figiel, Janusz; Tremper, Donald; and Lems, Peter, 4,683,017, Cl. 156-73.100.
Trenchard, Paul M. Mixer for use with microwave oven. 4,714,813, 12-22-87, Cl. 219-10.55F.
Trenchbond Limited: *See*—
Carrol, Alan, 4,680,112, Cl. 210-179.000.
Trendel, Alois F., to Owens-Illinois, Inc. Closure application system. 4,663,913, 5-12-87, Cl. 53-314.000.
Trendel, Alois F., to Owens-Illinois Closure Inc. Closure handling apparatus. 4,708,235, 11-24-87, Cl. 198-474.000.
Trendov, Asparough O. Method and apparatus for continuously sizing, preforming or casting. 4,662,428, 5-5-87, Cl. 164-459.000.
Trendov, Asparough O. Apparatus with hydraulic arms for continuously sizing, preforming or casting. 4,662,430, 5-5-87, Cl. 164-479.000.
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Conner, John P.; Mitchell, Terry; Miller, Craig; Vander Kooi, David L.; and Herringa, Donald, 4,660,905, Cl. 312-195.000.
Trenkle, Robert W.: *See*—
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,264, Cl. 424-195.100.
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaira, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,463, Cl. 514-464.000.
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,671,959, Cl. 424-195.100.
Trenque, Pierre: *See*—
Vigneau, Jean L.; and Trenque, Pierre, 4,693,235, Cl. 126-263.000.
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Trent, Chadwick L.: *See*—
Schmitt, Ray F.; Trent, Chadwick L.; Gavin, Joseph A.; and Kempel, Francis D., 4,647,371, Cl. 210-96.100.
Trent Jetfloor Limited: *See*—
Sparrow, Ian H., 4,682,458, Cl. 52-309.800.
Trent, John S.: *See*—
Burmester, Alan F.; and Trent, John S., 4,666,987, Cl. 525-193.000.
Trent, Robert L. Apparatus for manufacturing musician's reed assemblies. 4,669,515, 6-2-87, Cl. 144-115.000.
Trentel, Susan: *See*—
Shaffer, Ralph; and Trentel, Susan, 4,674,749, Cl. 273-153.00R.
Trentmann, Heinz: *See*—
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Trenzeluk, Theodore, to Tecma Laboratories, Inc. Skin therapeutic mixture containing eupatorium extract. 4,713,242, 12-15-87, Cl. 424-145.000.
Trepanier, Fernand. Windmill. 4,678,923, 7-7-87, Cl. 290-55.000.
Trepanier, Roland J.: *See*—
Ouellette, Roland J.; Hodgson, Peter W.; and Trepanier, Roland J., 4,644,174, Cl. 250-559.000.
Trepo, Christian G.: *See*—
Fox, Jack J.; Watanabe, Kyoichi A.; Lopez, Carlos; and Trepo, Christian G., 4,666,892, Cl. 514-49.000.
Trepp, Christian, to Sulzer Brothers Limited. Apparatus for conveying and compressing a gaseous medium. 4,640,667, 2-3-87, Cl. 417-52.000.
Treppner, Bernaht C. Angle plate apparatus with precisely adjustable workpiece holder. 4,669,227, 6-2-87, Cl. 51-217.00R.
Treptow, Leonard A. Audio aid for the blind. 4,680,740, 7-14-87, Cl. 367-101.000.
Treptow, Warren L.; Hyun, Kuo S.; and Park, Chung P., to Dow Chemical Company, The. Crosslinked silane-functional vinylidene chloride polymer and films or foams therefrom. 4,689,355, 8-25-87, Cl. 521-154.000.
Trepus, George E., Jr.; Matin, Barry D.; and Rider, Preston L., to Boeing Company, The. Method of making a fiber reinforced product. 4,707,206, 11-17-87, Cl. 156-187.000.
Trequilly, Yves: *See*—
Andrieux, Alain; Trequilly, Yves; and Lavoine, Jean-Claude, 4,692,841, Cl. 361-395.000.
Trerice, Douglas N. Method and apparatus for reduction of fly ash carbon by microwave. 4,663,507, 5-5-87, Cl. 219-10.55M.
Trerice, Douglas N. Method and apparatus for measurement of carbon content in fly ash. 4,705,409, 11-10-87, Cl. 374-45.000.
Trescol, Jean J.: *See*—
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Guioth, Chantal H.; Maze, Etienne G.; and Trescol, Jean J., 4,714,532, Cl. 204-181.700.
Zedler, Angelika A.; and Trescol, Jean J., 4,661,223, Cl. 204-181.700.
Treseder, Robert C.: *See*—
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Treskot, Robert A.: *See*—
McGarry, Phillip E.; Herman, David E.; Treskot, Robert A.; and Fistner, David C., Sr., 4,650,567, Cl. 209-166.000.
Tresper, Erhard: *See*—
Alewelt, Wolfgang; Eisermann, Wolfgang; Meyer, Karl-Heinrich; Tresper, Erhard; and Ullrich, Martin, 4,639,507, Cl. 528-388.00.
Tressl, Guenther: *See*—
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Tretbar, Lawrence L. Clip apparatus. 4,671,282, 6-9-87, Cl. 128-346.00.
Tretbar, Lawrence L. T-tube. 4,675,008, 6-23-87, Cl. 604-284.000.
Trethewey, Paul M., to Grass Valley Group, Inc., The. Bar/dot level meter. 4,679,042, 7-7-87, Cl. 340-754.000.
Trethewey, Reginald, to Comdox No. Pty. Ltd. Exercise machine. 4,641,833, 2-10-87, Cl. 272-72.000.
Trethowan, Jack, to W & A Bates Limited. Tire transport jig. 4,637,644, 1-20-87, Cl. 294-97.000.
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Tretiakoff, Oleg; and Tretiakoff, Andree, 4,664,632, Cl. 434-114.000.
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Tretter, Steven A.; Redick, Robert P.; Stuart, Richard L.; Treyner, Paul E.; and Gordon-Smith, David, to Case Communications, Inc. High speed data modem using multilevel encoding. 4,646,325, 2-24-87, Cl. 371-43.000.
Treu, Dennis M.: *See*—
Shouldice, David R.; and Treu, Dennis M., 4,715,398, Cl. 137-171.000.
Treudler, Reinhard. Apparatus for transferring a high voltage to the ignition elements of an internal combustion engine. 4,658,792, 4-21-87, Cl. 123-146.50A.
Treuner, Uwe D., to E. R. Squibb & Sons, Inc. Hydrazide containing derivatives of 2-amino-4-thiazole-acetic acid. 4,680,409, 7-14-87, Cl. 548-194.000.
Treurnicht, Ilse: *See*—
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Trevathan, Larry C., to Nordson Corporation. Multi-orifice zero cavity nozzle dispenser. 4,679,711, 7-14-87, Cl. 222-330.000.
Trevino, Toby R.: *See*—
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Trevisiol, Franco: *See*—
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Trevison, Robert L.; McKee, William E.; and Hummel, Larry B., to Commco Limited. Cover for semiconductor device package. 4,640,438, 2-3-87, Cl. 220-359.000.
Trevitt, Donna J.: *See*—
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Trewyn, Ronald W.; and D'Ambrosio, Steven M., to Ohio State University. Early cancer detection method. 4,687,733, 8-18-87, Cl. 435-7.000.
Trexler, Charles J.: *See*—
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Treybig, Duane S., to Dow Chemical Company, The. Thermosettable polymer or prepolymer prepared from heterocyclic material having alkyl substituent, mono- or dianhydride, ethylenically unsaturated material and a hydroxide, carbonate or bicarbonate of a metal of groups I-A or II-A. 4,654,414, 3-31-87, Cl. 528-336.000.
Treybig, Duane S., to Dow Chemical Company, The. Preparation of thermosettable polymer or prepolymer from heterocyclic material containing nitrogen atoms, carboxylic acid mono- or dianhydride and a polymerizable material with ethylenically unsaturated group. 4,668,766, 5-26-87, Cl. 528-336.000.
Treybig, Duane S., to Dow Chemical Company, The. Novel compositions prepared from methyl substituted nitrogen-containing aromatic heterocyclic compounds and an aldehyde or ketone. 4,676,934, 6-30-87, Cl. 106-14.150.
Treybig, Duane S., to Dow Chemical Company, The. Thermosettable polystyrylpyrazine polymers terminated with ethylenically unsaturated groups and cured products therefrom. 4,680,347, 7-14-87, Cl. 525-519.000.
Treybig, Duane S.: *See*—
Chang, Dane; and Treybig, Duane S., 4,701,484, Cl. 524-59.000.
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Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,639,864, Cl. 364-200.000.
Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David

R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,535, Cl. 364-200.000.
Katzman, James A.; Bartlett, Joel F.; Bixler, Richard M.; Davidow, William H.; Despotakis, John A.; Graziano, Peter J.; Green, Michael D.; Greig, David A.; Hayashi, Steven J.; Mackie, David R.; McEvoy, Dennis L.; Treybig, James G.; and Wierenga, Steven W., 4,672,537, Cl. 364-200.000.

Treynor, Paul E.: *See—*
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Trezza, Ronald F. Clip construction for wall arrangement. 4,641,873, 2-10-87, Cl. 52-410.000.

Tri-Cities Tool & Die Clinic, Inc.: *See—*
House, David N.; and Sauseda, Blas O., 4,643,505, Cl. 339-75.00P.

Tri City Laboratory Specialists, Inc.: *See—*
Zeigler, Warren L.; and Zeigler, Roy F., 4,667,353, Cl. 4-607.000.

Tri-D-Automotive Industries, Ltd.: *See—*
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Tri Fund Research Corporation: *See—*
Snyder, Leon T.; Scarfone, Frank A.; Reuss, James L.; Campen, George V.; and Yates, George H., 4,686,999, Cl. 128-716.000.

TRI-I Manufacturing, Inc.: *See—*
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Tri/Mark Corporation: *See—*
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Tri Plas, Inc.: *See—*
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Tri-Rel, Inc.: *See—*
Ross, Richard S.; Friedman, John E.; and Friedman, James A., 4,687,248, Cl. 297-129.000.

Tri Sigma Corporation: *See—*
Ceccon, Claude R.; and Mioduski, Paul C., 4,635,192, Cl. 364-200.000.
Ceccon, Claude R.; Kovara, Joseph N.; and Mioduski, Paul C., 4,660,141, Cl. 364-200.000.

Tri-Star Data: *See—*
Grunwell, Harry, 4,704,058, Cl. 411-134.000.

Tri-State Enterprises: *See—*
Smith, Joe M., 4,708,310, Cl. 248-220.100.

Tri-tech, Inc.: *See—*
Hansen, Charles W., 4,655,099, Cl. 74-421.00A.
Palmero, Albert; and Hansen, Charles, 4,714,853, Cl. 310-257.000.
Potts, Lanny L., 4,687,195, Cl. 272-69.000.

Tri-Tech Systems International Inc.: *See—*
Thompson, Mortimer S., 4,708,255, Cl. 215-329.000.
Thompson, Mortimer S., 4,709,824, Cl. 215-252.000.

Tri Tool Inc.: *See—*
Astle, Henry; VanderPol, Jerald; Schuster, Randall; and Linton, Terry B., 4,667,548, Cl. 82-4.00C.
Nall, Lawson H.; and Sandford, William E., 4,646,413, Cl. 29-402.030.
Vander Pol, Jerald, 4,665,782, Cl. 82-4.00C.

Tri-Tronics Company, Inc.: *See—*
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Tri-X Corporation: *See—*
Moniot, John L., 4,662,940, Cl. 106-33.000.

Tractor Holdings Limited: *See—*
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Triad Metal Products Company: *See—*
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Triangle Tool Corporation: *See—*
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Triani, Ronald J.; and Meczkowski, Frank J., to General Foods Corporation. Debittering bran flakes using citrus peel. 4,661,362, 4-28-87, Cl. 426-289.000.

Triani, Ronald J.: *See—*
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Triatex International AG: *See—*
Bors, Hans; Egger, Peter; Gotz, Albert; and Schwemmer, Martin, 4,672,705, Cl. 8-151.000.

Tribble-DuBose, Bobby J. Collapsible potty chair with disposable bag. 4,633,536, 1-6-87, Cl. 4-460.000.

Tribble, Richard P.: *See—*
Grant, Elwyn E.; Lafevers, James O.; and Tribble, Richard P., 4,660,168, Cl. 364-900.000.

Tribble, Robert L. Golf glove. 4,658,445, 4-21-87, Cl. 2-161.00A.

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Tribe, Leonard T.: *See—*
Every, Peter; Atkins, Thomas M.; Miller, Roger L.; and Tribe, Leonard T., 4,673,226, Cl. 303-109.000.

Tribert, Claude, to Northeast Ohio Axle, Inc. Method and apparatus for packing elongated food material such as pickle spears. 4,646,509, 3-3-87, Cl. 53-446.000.

Tribet, Daniel: *See—*
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Tribometrics, Inc.: *See—*
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Lewis, Robert T., 4,692,698, Cl. 324-204.000.

Triboulet, Robert; Didier, Gerard; Durand, Alain; and Royer, Michel, to Societe Anonyme de Telecommunications. Process for preparing crystals of Hg1-x Cdx Te. 4,662,980, 5-5-87, Cl. 156-604.000.

Tributsch, Helmut; Ennaoui, Ahmed; Jaegermann, Wolfram; and Fiechter, Sebastian, to Hahn-Meitner-Institut Berlin GmbH. Photoactive pyrite layer and process for making and using same. 4,649,227, 3-10-87, Cl. 136-252.000.

Tributsch, Helmut; Beck, Gerhard; Kunst, Marinus; Kuppers, Udo; Lewerenz, Hans-Joachim; Lilie, Jochen; and Werner, Andre, to Hahn-Meitner-Institut Berlin GmbH. System for optimizing process parameters in photoactive semiconductor manufacturing in-situ. 4,700,311, 10-13-87, Cl. 364-468.000.

Tributsch, Helmut; Beck, Gerhard; and Kunst, Marinus, to Hahn-Meitner-Institut Berlin BmbH. Microwave measuring and apparatus for contactless non-destructive testing of photosensitive materials. 4,704,576, 11-3-87, Cl. 324-158.00R.

Tricarico, Rocco V. Method of erecting a building using preconstructed modular units. 4,660,349, 4-28-87, Cl. 52-745.000.

Trichell, John; and Wheeler, Ronald M. Combined clipper and vacuum assembly. 4,667,405, 5-26-87, Cl. 30-41.500.

Tricini, John D., to Valve Systems, Inc. Valve structures. 4,693,451, 9-15-87, Cl. 251-163.000.

Trick, O. Lee. In cap medication reminder. 4,666,051, 5-19-87, Cl. 215-230.000.

Trick, William A.; and Loges, Joseph T., to General Motors Corporation. Pressure connector. 4,698,999, 10-13-87, Cl. 73-49.800.

Trickel, Lorn L. Solar-energy-collecting structural unit and solar roof. 4,712,338, 12-15-87, Cl. 52-90.000.

Trico Products Corporation: *See—*
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Tricon Industries: *See—*
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Trident Engineering, Inc.: *See—*
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Trieb, Gerhard: *See—*
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Triebel, Carol A.: *See—*
Darden, Jerome W.; Triebel, Carol A.; Van Neste, Walter A.; and Maes, Jean P., 4,647,392, Cl. 252-75.000.

Triefenbach, Dieter: *See—*
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Trieschmann, Christa: *See—*
Muller, Johann; Trieschmann, Christa; Doskocil, Walter; and Preiner, Gerhard, 4,675,425, Cl. 556-442.000.
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Trieselt, Wolfgang: *See—*
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Lorenz, Klaus; Balzer, Wolf-Dieter; Wolf, Helmut; Trieselt, Wolfgang; and Busse, Gerd, 4,704,453, Cl. 536-16.000.
Messmer, Karlheinz, Hennig, Karl; Denzin_ , Walter; Hettche, Albert; Trieselt, Wolfgang; and Raubenheimer, Hans-Juergen, 4,670,524, Cl. 526-88.000.
Sommer, Karl; Heinz, Robert; Hettche, Albert; Perner, Johannes; Schuster, Werner; and Trieselt, Wolfgang, 4,695,397, Cl. 252-182.000.

Triessnig, Alois, to Veitscher Magnesitwerke-Actien-Gesellschaft. Checkerwork for upright regeneration chambers of a glass melting furnace. 4,651,810, 3-24-87, Cl. 165-9.200.

Trig, Inc.: *See—*
Hickling, Colin D., 4,682,141, Cl. 337-379.000.

Trigari, Silvana: *See—*
Russo, Vera; Sottini, Stefano; Righini, Giancarlo; and Trigari, Silvana, 4,678,268, Cl. 350-96.180.

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Blaul, Ronald L., 4,676,261, Cl. 134-57.00R.

Trigon Packaging Systems Limited: *See—*
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Trigon Packaging Systems (NZ) Limited: *See—*
Cassey, Russell A., 4,648,860, Cl. 493-195.000.

Trihey, John M. Solar tracking system. 4,649,900, 3-17-87, Cl. 126-425.000.

Trillian Computer Corporation: *See—*
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Trillium Telephone Systems Inc.: *See—*
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Trilogy Computer Development Partners, Ltd.: *See—*
Brown, Harold E.; Mozsgai, Steven I.; and Chen, Jason C., 4,658,400, Cl. 371-25.000.
Lee, James C. K.; Amdahl, Gene M.; Beck, Richard L.; Quinn, Robert F.; and Sochor, Jerzy R., 4,667,219, Cl. 357-68.000.
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Trilogy Systems Corporation: *See—*
Reinschmidt, Robert M.; and Plummer, Wylie J., 4,663,741, Cl. 365-189.000.

Trim-Lok, Inc.: *See—*
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Trimble, Bruce E.: *See*—
Casey, Thomas A.; Rice, Miles L.; Keough, William B.; Rothenbuhler, Dan E.; and Trimble, Bruce E., 4,647,928, Cl. 340-98.400.
Trimble, Donald E.: *See*—
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Trimble, Harold: *See*—
Van Driesen, Roger P.; Adams, William R.; Caspers, John; Baldasarri, Mario; and Trimble, Harold, 4,684,456, Cl. 208-143.000.
Trimble, Russell L.: *See*—
Rose, Robert J.; and Trimble, Russell L., 4,695,954, Cl. 364-413.000.
Snook, James A.; Nelson, Thomas W.; Wyble, Marilyn S.; and Trimble, Russell L., 4,706,664, Cl. 128-204.230.
Trimborn, Werner: *See*—
Leehtken, Peter; Buethe, Ingolf; Jacobi, Manfred; and Trimborn, Werner, 4,710,523, Cl. 522-14.000.
Trimedia Corporation: *See*—
Eltoukhy, Atef, 4,697,974, Cl. 414-331.000.
Trimedyne Laser Systems, Inc.: *See*—
Hussein, Hany M. G.; Loeb, Marvin P.; and Sulek, Stanislaw, 4,662,368, Cl. 128-303.100.
Trimmel, Wolfgang: *See*—
Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,678,168, Cl. 266-196.000.
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Trimmer, Johnny L., to Dow Chemical Company, The. Tubesheet for spiral wound hollow fiber permeator. 4,652,373, 3-24-87, Cl. 210-321.100.
Trimmer Machine Co., Inc.: *See*—
Raybuck, William B., 4,667,809, Cl. 198-456.000.
Trimmer, William R.: *See*—
Rehm, Roger P.; and Trimmer, William R., 4,663,900, Cl. 52-115.000.
Trimmer, William S. N.: *See*—
Gabriel, Knigham J.; Trimmer, William S. N.; and Walker, James A., 4,700,541, Cl. 60-528.000.
Poteat, Tommy L.; and Trimmer, William S. N., 4,688,885, Cl. 350-96.200.
Trine Products Corp.: *See*—
Gaines, Bernard S., 4,648,675, Cl. 339-97.00P.
Paley, Gary, 4,640,019, Cl. 33-563.000.
Triner, Irvin R.; and Bixler, Craig A., to Molex Incorporated. Plug and receptacle connector assembly. 4,679,879, 7-14-87, Cl. 439-425.000.
Triner, Irvin R.: *See*—
Bixler, Craig A.; and Triner, Irvin R., 4,713,023, Cl. 439-393.000.
Tringali, Dominick, to Square D Company. Isolation switch having a locking bail arm. 4,677,269, 6-30-87, Cl. 200-324.000.
Trinh Dinh, Chan; Desvard, Alain; and Martino, Germain, to Institut Francais du Petrole. Process for regenerating used catalysts by means of hydrogen peroxide aqueous solution stabilized with an organic compound. 4,714,688, 12-22-87, Cl. 502-33.000.
Trinh, Dinh Chan: *See*—
Dufresne, Pierre; Marcilly, Christian; and Trinh, Dinh Chan, 4,645,752, Cl. 502-66.000.
Trinh, Lahn T.; and Lewis, Thomas E., to Allied Corporation. Individual cylinder ignition control. 4,638,780, 1-27-87, Cl. 123-416.000.
Trinh, Toan; Wahl, Errol H.; Swartley, Donald M.; and Hemingway, Ronald L., to Procter & Gamble Company, The. Liquid fabric softener. 4,661,269, 4-28-87, Cl. 252-8.800.
Trinh, Toan; and Scheper, John S., to Procter & Gamble Company, The. No rinse liquid car cleaner with solid polymers. 4,693,840, 9-15-87, Cl. 252-174.230.
Trinh, Vinh-Dinh D.; Scholtes, Ronald P.; and Sumner, Terence E., to Motorola, Inc. Panel assembly with easily detachable switch actuators. 4,692,571, 9-8-87, Cl. 200-5.00A.
Trinh, Vuong D.: *See*—
Magee, Robert D.; Asztalos, Michael J.; and Trinh, Vuong D., 4,664,877, Cl. 376-307.000.
Trini Castelli, Clino. Method of lighting environments in general, particularly open space environments. 4,701,831, 10-20-87, Cl. 362-147.000.
Trinity Development Corporation: *See*—
Plasencia, Richard, 4,652,331, Cl. 156-526.000.
Trinity Foundation: *See*—
Christine, William C., 4,711,373, Cl. 222-82.000.
Trinity Industrial Corporation: *See*—
Fukuta, Kenji; Komiyama, Matsuo; Katsuyama, Kazuo; and Tanno, Minoru, 4,703,894, Cl. 239-414.000.
Inoue, Hidemasa; and Taniguchi, Hisashi, 4,649,710, Cl. 62-92.000.
Osawa, Michiaki; Omori, Hidetoshi; and Inoue, Hidemasa, 4,653,387, Cl. 98-115.200.
Takata, Hideyuki; Tokushima, Yasuo; Katoh, Kaname; and Tachi, Hideo, 4,670,994, Cl. 34-39.000.
Takeuchi, Hitoshi; Yamada, Naoki; Ikemura, Hisao; and Suzuki, Noriyasu, 4,676,189, Cl. 118-626.000.
Trinity Industries, Inc.: *See*—
Hart, James D., 4,715,291, Cl. 105-378.000.
Trinity, James R. Method of monitoring credit card charges. 4,689,018, 8-25-87, Cl. 434-109.000.
Trinki, Gerd: *See*—
Hofmann, Franz; Trapp, Hans G.; Rietzscher, Rolf; Otto, Jurgen; Kaettlitz, Wolfgang; and Trinki, Gerd, 4,713,180, Cl. 210-773.000.
Trinklein, Donald W., to Chrysler Motors Corporation. Method to evaluate sheet metal lubricants cratering potential on metal primer. 4,663,007, 5-5-87, Cl. 204-180.200.
Trio Kabushiki Kaisha: *See*—
Kawashima, Susumu; and Takahashi, Nobuo, 4,677,258, Cl. 178-18.000.
Tamura, Eijiro, 4,668,921, Cl. 330-297.000.
Trio-Tech: *See*—
Roshala, John L., 4,685,853, Cl. 414-404.000.
Triole, Philip M.: *See*—
Stensaas, Larry J.; Todd, R. Joseph; and Triolo, Philip M., 4,662,884, Cl. 623-12.000.
Trion Corporation: *See*—
Aoki, Akio, 4,665,561, Cl. 2-19.000.
Trion, Inc.: *See*—
McLain, Bruce H., Sr.; and Sallee, John P., 4,652,988, Cl. 363-146.000.
Shiao-Chung Hu, Jerry, 4,651,264, Cl. 363-18.000.
Trion Industries, Inc.: *See*—
Thalenfeld, David R., 4,674,721, Cl. 248-220.400.
Thalenfeld, David R., 4,706,917, Cl. 248-205.100.
Tripar Incorporated: *See*—
Breckwoldt, Robert G., 4,693,266, Cl. 131-359.000.
Tripathy, Sukant K.: *See*—
Bowers, Mark L.; Druy, Mark A.; Durfor, Charles N.; Smith, H. Gilbert; Tripathy, Sukant K.; and Yenser, Barbara A., 4,704,191, Cl. 204-1.00T.
Druy, Mark A.; and Tripathy, Sukant K., 4,644,037, Cl. 525-390.000.
Druy, Mark A.; and Tripathy, Sukant K., 4,657,985, Cl. 525-390.000.
Druy, Mark A.; Tripathy, Sukant K.; and Rubner, Michael F., 4,707,527, Cl. 525-417.000.
Elman, Boris S.; Sandman, Daniel J.; Tripathy, Sukant K.; and Thakur, Mrinal K., 4,647,403, Cl. 252-512.000.
Thakur, Mrinal K.; Tripathy, Sukant K.; and Sandman, Daniel J., 4,684,434, Cl. 156-622.000.
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Tripier, Dominique, to Hoechst Aktiengesellschaft. Polypeptides with an anticoagulant action, a process to prepare or obtain them, their use and agents containing them. 4,668,662, 5-26-87, Cl. 514-12.000.
Tripke, Klaus: *See*—
Ziemek, Gerhard; Kubiak, Herbert; and Tripke, Klaus, 4,663,954, Cl. 72-77.000.
Triple "F", Inc.: *See*—
Zeller, Zellis C., 4,696,634, Cl. 425-237.000.
Triplett, Carol J., to Gray, John D.; and Triplett, Charles S. Roofing system, method and holddown apparatus. 4,686,808, 8-18-87, Cl. 52-410.000.
Triplett, Charles S.; and Gray, John D. Non-penetrating roof system. 4,712,348, 12-15-87, Cl. 52-408.000.
Triplett, Charles S.: *See*—
Triplett, Carol J., 4,686,808, Cl. 52-410.000.
Triplett, James T. Double center luffing crane. 4,653,656, 3-31-87, Cl. 212-190.000.
Triplett, James T.; Germeraad, Paul B.; Chan, Randolph W.; and Jensen, Michael L., to Raychem Corporation. Electrical devices comprising fabrics. 4,700,054, 10-13-87, Cl. 219-545.000.
Triplett, James T.: *See*—
Campbell, Bruce D.; Triplett, James T.; and Tylor, Richard E., 4,664,732, Cl. 156-158.000.
Campbell, Bruce D.; Triplett, James T.; and Tylor, Richard E., 4,679,907, Cl. 350-320.000.
Triplett, Kelly B.: *See*—
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Malpass, Dennis B.; Fannin, Loyd W.; Crapo, Clark C.; and Triplett, Kelly B., 4,707,462, Cl. 502-153.000.
Triplett, Timothy L.: *See*—
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Triponez, Andre : *See*—
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Triporo, Pedro R.; and Eckels, Stanley, to Triporo, Pedro R. Apparatus for making pizza. 4,634,365, 1-6-87, Cl. 425-398.000.
Tripoteau, Jean, to Societe Setem. Bucket elevator including means for modifying bucket speed in the loading zone. 4,674,623, 6-23-87, Cl. 198-549.000.
Tripp, Andrew, Jr.: *See*—
Bush, Bill R.; Tripp, Andrew, Jr.; and Marchaj, Tadeusz J., 4,659,033, Cl. 242-7.210.
Tripp, Dale S., to White Consolidated Industries, Inc. Erosion resistant soft seated valve trim. 4,669,702, 6-2-87, Cl. 251-210.000.
Tripp, Edward S.: *See*—
Larkin, Mark E.; and Tripp, Edward S., 4,703,864, Cl. 215-256.000.
Tripp, Edwin P., III; Weisman, Jason; and Hissong, George, to Energy Sciences Inc. Method of and apparatus for electron beam curing coated, porous and other web structures. 4,642,244, 2-10-87, Cl. 427-44.000.
Tripp, Fred D., to Grentek, Inc. Quick change coupling for machine tool arbors and the like. 4,661,009, 4-28-87, Cl. 403-349.000.

ripp, Harley A., to Shell Oil Company. Quality control for sucker rods. 4,700,577, 10-20-87, Cl. 73-801.000.
ripp, Jeff, Allan, John S.; and Murphy, F. Merrick. Keyboard apparatus. 4,665,788, 5-19-87, Cl. 84-1.100.
ripp, Lloyd D., Jr.: *See—*
Jennings, Thomas J.; Tripp, Lloyd D., Jr.; Howell, Lora L.; and Loukoumidis, Dimitrios G., 4,674,479, Cl. 128-1.00A.
ripp, Mary: *See—*
Drake, Cyril F.; and Tripp, Mary, 4,662,879, Cl. 604-892.000.
ripp, Robert R.; and Watts, Charles H., to Odetics, Inc. Time lapse video recorder with auto monitoring function. 4,658,319, 4-14-87, Cl. 360-11.100.
rippel, Gerhard: *See—*
Bandara, Upali; Hinkel, Holger; Steiner, Werner; and Trippel, Gerhard, 4,710,424, Cl. 428-325.000.
Brunsch, Arwed; Steiner, Werner; and Trippel, Gerhard, 4,651,092, Cl. 324-204.000.
riQuint: *See—*
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riquint Semiconductor, Inc.: *See—*
Li, Jim Y.; and Weiss, Frederick G., 4,686,451, Cl. 323-313.000.
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riquint Semiconductors, Inc.: *See—*
Vetanen, William A.; Gleason, Kimberly R.; and Beers, Irene G., 4,642,259, Cl. 428-137.000.
Vetanen, William A.; Gleason, Kimberly R.; and Beers, Irene G., 4,656,076, Cl. 428-137.000.
rischler, Ferenc: *See—*
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Ezer, Elemer; Harsanyi, Kalman; Petho, Hajnalka V.; Matuz, Judit; Szporny, Laszlo; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas, Marta; and Kallay, Anna, 4,713,388, Cl. 514-346.000.
Megyeri, Gabor; Keve, Tibor; Stefko, Bela; Bogsch, Erik; Galambos, Janos; Kassainee Zieger, Anna; Trischler, Ferenc; Palosi, Eva; Groo, Dora; Karpati, Egon; Szombathelyi, Zsolt; Szporny, Laszlo ; Kiss, Bela; Laszlovszky, Istvan; and Lapis, Erzsebet, 4,681,887, Cl. 514-284.000.
Megyeri, Gabor; Keve, Tibor; Galambos, Janos; Kovacs, Lajos, Jr.; Stefko, Bela; Bogsch, Erik; and Trischler, Ferenc, 4,697,017, Cl. 544-346.000.
rischuk, Ronald W.: *See—*
Bauer, Ralph; Khaund, Arup K.; Trischuk, Ronald W.; and Similta, Joseph, 4,657,754, Cl. 423-625.000.
riseal Corporation: *See—*
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risolini, Giorgio S. Floor-washing apparatus provided with a self-wringing device. 4,642,832, 2-17-87, Cl. 15-3.000.
riStar Sports Inc.: *See—*
Meatto, Franklin D.; and Pilpel, Edward D., 4,679,814, Cl. 280-610.000.
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Meatto, Franklin D.; and Pilpel, Edward D., 4,700,967, Cl. 280-609.000.
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ristram, Edward W.: *See—*
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ritec Industries, Inc.: *See—*
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riten Corporation: *See—*
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riton Aquatherm Limited: *See—*
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ritt, Eugen, to S+T Marketing AG. Microsurgical tool. 4,681,105, 7-21-87, Cl. 128-303.170.
ritton, John A.: *See—*
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riumph-Adler A.G.: *See—*
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riune Automated Painting Systems: *See—*
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rivedi, Bharat, to Warner Lambert Company. N^6-bicycloadenosines and methods of use. 4,714,697, 12-22-87, Cl. 514-46.000.
rivedi, Bharat: *See—*
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Bristol, James A.; Moos, Walter H.; and Trivedi, Bharat, 4,657,898, Cl. 514-47.000.
rivedi, Bharat K., to Warner-Lambert Company. N_6-Benzopyrano- and benzothiopyrano adenosines and methods of use. 4,683,223, 7-28-87, Cl. 514-46.000.
Trivedi, Bharat K.: *See—*
Bristol, James A.; Moos, Walter; and Trivedi, Bharat K., 4,663,313, Cl. 514-46.000.
Hamilton, Harriet W.; Patt, William C.; and Trivedi, Bharat K., 4,673,670, Cl. 514-46.000.
Trivedi, Bhupendra C.: *See—*
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Grote, Dace; Trivedi, Bhupendra C.; and Mason, Thomas O., 4,661,296, Cl. 260-413.000.
Trivedi, Nayankumar B.: *See—*
Jacobson, Gunnard K.; and Trivedi, Nayankumar B., 4,643,901, Cl. 426-62.000.
Trivelpiece, Craig E.: *See—*
Thompson, John R.; Hunting, Curtis J.; Masson, Ronald K.; and Trivelpiece, Craig E., 4,716,588, Cl. 380-20.000.
Trksak, Ralph: *See—*
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Troadec, Jean R.: *See—*
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Trocciola, John C.; Powers, Joseph; and Martin, Ronald G., to United Technologies Corporation. Silicon carbide matrix for fuel cells. 4,695,518, 9-22-87, Cl. 429-12.000.
Trocciola, John C.: *See—*
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Trocherie, Jean-Pierre, to Moulinex Societe Anonyme. Beating/emulsifying tool for a domestic electrical appliance for food preparation. 4,648,720, 3-10-87, Cl. 366-306.000.
Trocino, Joseph L. Method of combining liquid explosive compositions for field operations. 4,634,480, 1-6-87, Cl. 149-74.000.
Troeder, Christoph, to Ringspann Albrecht Maurer K.G. Method and system to trigger release of a safety disconnect clutch. 4,662,492, 5-5-87, Cl. 192-0.032.
Troeger, Gary L.: *See—*
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Troester, Helmut: *See—*
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Troester, Thomas F. Continuously variable transmission with epicyclic constant mesh gearing. 4,680,985, 7-21-87, Cl. 74-785.000.
Trofast, Jan W.: *See—*
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Troffkin, Howard J.: *See—*
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Troger, Wolfgang: *See—*
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Weber, Karl-Heinz; Schneider, Claus; Walther, Gerhard; Hinzen, Dieter; Kuhn, Franz J.; Lehr, Erich; Ensinger, Helmut; and Troger, Wolfgang, 4,670,456, Cl. 514-424.000.
Trogler, William C.; and Jensen, Craig M., to University of California, The Regents of the. Catalytic compositions for preparing amides and primary alcohols. 4,684,751, 8-4-87, Cl. 568-898.000.
Troglia, Claudio: *See—*
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Troglio, Donald L.: *See—*
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Trogus, Frank J.: *See—*
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Trojahn, Hans-Georg: *See—*
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Trojan, Donald R.: *See—*
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Trojan, Gunter, to Hein, Lehmann AG. Continuously operating centrifuge. 4,645,540, 2-24-87, Cl. 127-19.000.
Trok, Benjamin: *See—*
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Trokel, Stephen L.: *See—*
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Trokhan, Paul D., to Procter & Gamble Company, The. Tissue paper. 4,637,859, 1-20-87, Cl. 162-109.000.
Troletti, Bonifacio, to Honeywell Information Systems Italia. Digital apparatus for magnetic media data recovery system. 4,672,482, 6-9-87, Cl. 360-45.000.
Troletti, Bonifacio, to Honeywell Information Systems Italia. Digital apparatus for data recovery system. 4,714,968, 12-22-87, Cl. 360-51.000.
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Messinger, Werner; and Trolltsch, Kart, 4,669,322, Cl. 74-42.000.

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Trombley, Douglas E., to General Motors Corporation. Engine combustion control responsive to location and magnitude of peak combustion pressure. 4,706,628, 11-17-87, Cl. 123-425.000.

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Tromborg, Erik T., to Honeywell, Inc. Parallel processing of the output from monolithic sensor arrays. 4,665,440, 5-12-87, Cl. 358-213.290.

Trommer, Gert: *See—*
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Tromp, Petrus J.: *See—*
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Tromp, Wouter T.: *See—*
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Troncoso De Liotta, Holga E.: *See—*
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Troncoso, Fernando, Jr. Rest device. 4,686,956, 8-18-87, Cl. 124-41.00A.

Troncoso, Fernando, Jr. Compound bow draw position indicating device. 4,705,015, 11-10-87, Cl. 124-24.00R.

Troncoso, Vincent F. Archery bowstring peep sight. 4,656,747, 4-14-87, Cl. 33-265.000.

Troncoso, Vincent F. Archery bow assembly. 4,671,249, 6-9-87, Cl. 124-24.00R.

Troncoso, Vincent F., to Golden Key-Futura, Inc. Compound archery bow. 4,683,865, 8-4-87, Cl. 124-24.00R.

Troncoso, Vincent F. Multiple firing gun and trigger extension assembly. 4,685,379, 8-11-87, Cl. 89-136.000.

Trondle, Georg: *See—*
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Tronsli, Sverre N.: *See—*
Oen, Sverre; Poppe, Dag; and Tronsli, Sverre N., 4,695,935, Cl. 363-21.000.

Tronzano, Sergio, to Ing. C. Olivetti & C., S.p.A. Locking and ejecting device for a recording and reproducing apparatus for magnetic discs. 4,685,010, 8-4-87, Cl. 360-97.000.

Tronzo, Raymond G. Fenestrated hip screw and method of augmented fixation. 4,653,489, 3-31-87, Cl. 128-92.0YV.

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Boltze, Karl-Heinz; Etschenberg, Eugen; Traber, Jorg; and Bussgen, Herbert, 4,647,560, Cl. 514-220.000.
Lockhoff, Oswald; Stadler, Peter; Opitz, Hans-Georg; Horstmann, Harald; Junge, Bodo; and Pelster, Bernhard, 4,710,491, Cl. 514-42.000.

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Moore, William H.; Gutowski, Charles M.; Trosky, William J.; and Butler, Thomas A., 4,697,243, Cl. 364-513.000.

Trossman, Martin M., to Hasbro, Inc. Water toy. 4,689,032, 8-25-87, Cl. 446-160.000.

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Trost, Rudolf: *See—*
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Trost, Stojan; Vedlin, Boris; and Kazic, Marko, to Iskra-Sozd elektrokovinske industrije n.sol.o. Single-mode laser. 4,672,616, 6-9-87, Cl. 372-19.000.

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Trotman, Steven; and Maycock, Ian C., to Automotive Products plc. Diaphragm spring clutch cover assembly. 4,676,357, 6-30-87, Cl. 192-89.00B.

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Trouet, Andre B. L.; Hannart, Jean A. A. J.; and Rao, Kandukuri S. B., to Omnichem S.A. Vinblastin-23-oyl amino acid derivatives. 4,639,456, 1-27-87, Cl. 514-283.000.

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Trouillet, Andre: *See—*
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Troup, Cathryn H., executor: *See—*
Wichman, William J.; and Troup, Edward M., deceased, 4,713,038, Cl. 446-168.000.

Troup, Cathryn H., legal representative: *See—*
Troup, Edward M., deceased; Kendall, Giles A.; Han, Joseph U.; Moralez, Christopher M.; and Gongwer, Calvin A., 4,681,259, Cl. 239-206.000.

Troup, Edward M., deceased (by Troup, Cathryn H., legal representative); Kendall, Giles A.; Han, Joseph U.; Moralez, Christopher M.; and Gongwer, Calvin A., to Anthony Manufacturing Corp. Rotary drive sprinkler. 4,681,259, 7-21-87, Cl. 239-206.000.

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Troupes, Demetrios; and Alexander, Randall W., to International Business Machines Corporation. Method and apparatus for displaying enhanced dot matrix characters. 4,703,323, 10-27-87, Cl. 340-790.000.

Troupes, Demetrios; and Alexander, Randall W., to International Business Machines Corporation. Method and apparatus for displaying enlarged or enhanced dot matrix characters. 4,712,102, 12-8-87, Cl. 340-790.000.

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Trout, Torence J., to Du Pont de Nemours, E. I., and Company. Metallic soap as adjuvant for electrostatic liquid developer. 4,707,429, 11-17-87, Cl. 430-115.000.

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Troutman, Dennis L.: *See—*
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Troutman, Paul H.; Lester, Eddie D.; and Sonderman, William G., to Xomox Corporation. Magnetic switch housing assembly. 4,663,601, 5-5-87, Cl. 335-207.000.

Troutman, Ronald R.: *See—*
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Troutner, Vernon H., to McNeilab, Inc. Valve apparatus for photoactivation patient treatment system. 4,643,710, 2-17-87, Cl. 494-60.000.

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Troutner, Vernon H., to McNeilab, Inc. Zero insertion force socket for photoactivation patient treatment system. 4,687,464, 8-18-87, Cl. 604-4.000.

Troutner, Vernon H.; and King, Martin J., to McNeilab, Inc. Pump block for interfacing irradiation chamber to photoactivation patient treatment system. 4,692,138, 9-8-87, Cl. 604-4.000.

Troutner, Vernon H.; and King, Martin J., to McNeilab, Inc. Light array assembly for photoactivation patient treatment system. 4,708,715, 11-24-87, Cl. 604-6.000.

Trouw, Norman S., to Celanese Corporation. Method for the preparation of polybenzimidazole membranes. 4,693,825, 9-15-87, Cl. 210-500.280.

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Troxel, Kathleen A.: *See—*
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Troxell, Lillian H.: *See—*
Ehr, Robert J.; Tobol, Helen K.; and Troxell, Lillian H., 4,670,045, Cl. 71-94.000.
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Regimand, Ali, 4,701,868, Cl. 364-558.000.

oy, John C.: *See—*
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oy, Leonard. Improved continuous low fluid exchange water heater. 4,637,347, 1-20-87, Cl. 122-20.00A.
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oy, Seymour L.; and Mullenix, Kenneth E. Two-part bank draft. 4,637,634, 1-20-87, Cl. 283-98.000.
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u Fire Corporation: *See—*
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u-Plate Process, Inc.: *See—*
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rube, Hans: *See—*
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Epple, Anton; Trube, Hans; Pfeiffer, Martin; Huber, Guntram; and Berger, Josef, 4,670,934, Cl. 15-250.320.
Epple, Anton; Trube, Hans; and Pfeiffer, Martin, 4,674,145, Cl. 15-250.190.
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rubiano, Antoine, to Cari-All Inc. Shopping cart handle having an integral lock pin. 4,683,609, 8-4-87, Cl. 16-114.00R.
rubiano, Antoine, to Cari-All Inc. Locking device for interlocking nested shopping carts. 4,691,816, 9-8-87, Cl. 194-212.000.
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ruchet, Bernard: *See—*
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ruckenbrod, Gregory R.; Christiansen, David A.; Falk, Herbert S.; Johnson, Richard A.; and Colclaser, Robert G., III, to Thermo King Corporation. Microprocessor based control system and method providing better performance and better operation of a shipping container refrigeration system. 4,663,725, 5-5-87, Cl. 364-505.000.
ruckenbrodt, Randall, to Randall Industries. Repositionable thermal insulating truck bulkhead. 4,639,031, 1-27-87, Cl. 296-24.00R.
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ruckner, William G.; Jordan, Charles L.; and Sharkins, William R., to Aluminum Company of America. Non-contacting side edge dam means for roll casting. 4,685,505, 8-11-87, Cl. 164-415.000.
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Kersker, Michael M.; Truckner, William G.; Granger, Douglas A.; and Rooy, Elwin L., 4,681,736, Cl. 420-535.000.
rucksess, A. William. Security enclosure for transaction machine. 4,696,239, 9-29-87, Cl. 109-24.100.
rudeau, Curtis A., to CMI Corporation. Seismic energy source. 4,700,804, 10-20-87, Cl. 181-121.000.
rudeau, Michael J.: *See—*
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rudeau, Ronald E. Shotshell cartridge adapter. 4,702,170, 10-27-87, Cl. 102-446.000.
rue, Charles W., III; and Brady, John K., to Science Applications International Corporation. Frequency agile signal generator for emulating communications environments. 4,715,046, 12-22-87, Cl. 375-61.000.
rue, Martin E. Spinner for use in connecting pipe joints. 4,683,962, 8-4-87, Cl. 173-163.000.
rue, Robert C.: *See—*
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rue, Thomas T., to General Electric Company. Constant magnification light collection system. 4,642,740, 2-10-87, Cl. 362-268.000.
rue, Thomas T., to General Electric Company. Method and apparatus for enhancing magenta modulation of a light valve projector. 4,679,070, 7-7-87, Cl. 358-62.000.
rueblood, David M.: *See—*
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ruesdale, James B.: *See—*
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ruesdell, James D., to Kingsley Mfg. Co. Molded elastomeric prosthetic foot having energy-storing articulated keel. 4,652,266, 3-24-87, Cl. 623-55.000.
ruett, Martha: *See—*
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ruglio, Ralph. Vehicle barrier device. 4,669,912, 6-2-87, Cl. 404-6.000.
ruitt, Peter G.: *See—*
Deluhery, James G.; and Truitt, Peter G., 4,705,044, Cl. 128-419.00D.
Truitt, Robert B.; and Junius, V. Bruce, to Fluid Mechanics. Compact and cleanable apparatus for preventing scale formation in liquid systems. 4,713,159, 12-15-87, Cl. 204-197.000.
Truitt, Robert E.: *See—*
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Trujillo, Ron D.: *See—*
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Trull, Michael W., and Powell, Richard C., to Lord Corporation. Tactile sensor. 4,640,137, 2-3-87, Cl. 73-862.040.
Trull, Michael W.: *See—*
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Truman, William M.; and Wesling, Henry J., to Westinghouse Electric Corp. Transit vehicle start-up propulsion motor control apparatus and method. 4,651,070, 3-17-87, Cl. 318-318.000.
Truman's Inc.: *See—*
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Trumbauer, David V.; Foshinder, Larry L.; and Erion, Terry L., to Deere & Company. Method for forming castings having inserts. 4,691,754, 9-8-87, Cl. 164-9.000.
Trumble, Francis R.: *See—*
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Trumley, Richard L., to General Aluminum Products, Inc. Roll-formed frame for portable enclosures. 4,640,061, 2-3-87, Cl. 52-71.000.
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Trummelmeyer, Gerhard; and Ruprecht, Hans-Dieter, to Bayer Aktiengesellschaft. Use of liquid, cold-hardening polyurethane-urea-forming components for corrosion-inhibiting, wear-resistant coatings on metal and plastics surfaces and moldings and on stone and concrete. 4,716,210, 12-29-87, Cl. 528-75.000.
Trummer, Erwin. Structural element for tiled stoves. 4,675,223, 6-23-87, Cl. 428-53.000.
Trummlitz, Gunter; Engel, Wolfhard; Eberlein, Wolfgang; Mihm, Gerhard; and Giachetti, Antonio, to Dr. Karl Thomae GmbH. (+)-6-chloro-5,10-dihydro-5-[(1-methyl-4-piperidinyl)-acetyl]-11H-dibenzo[b,e][1,4]diazepin-11-one, the isolation thereof and its use as a pharmaceutical material. 4,668,674, 5-26-87, Cl. 514-220.000.
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Trump, Walter N.: *See—*
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Trumper, Karl: *See—*
Mallek, Heinz; Zange, Egon; Schlenter, Wolfgang; Trumper, Karl; Meininger, Siegfried; and Bege, Dietmar, 4,652,404, Cl. 252-628.000.
Trumper, Reinhard; and Baschant, Robert, to O&K Orenstein & Koppel Aktiengesellschaft. Connecting elevator. 4,693,661, 9-15-87, Cl. 414-595.000.
Trumper, Reinhard: *See—*
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Trumpf GmbH & Co.: *See—*
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Truskalo, Walter, to RCA Corporation. Resonant degaussing for a video display system. 4,636,911, 1-13-87, Cl. 361-150.000.

Truskalo, Walter; and Nolan, Thomas F., to RCA Corporation. Parabolic voltage generating apparatus for television. 4,683,405, 7-28-87, Cl. 315-371.000.

Truskalo, Walter, to RCA Corporation. Dynamic focus voltage with phase compensated adjustment. 4,707,639, 11-17-87, Cl. 315-382.000.

Truskolaski, Bernard S., to Minnesota Mining and Manufacturing Company. Decorative ribbon and sheet material. 4,713,267, 12-15-87, Cl. 428-4.000.

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Trusock, George J., to Clark Equipment Company. Series connected series motors for independent loads. 4,658,189, 4-14-87, Cl. 318-52.000.

Trusock, George J., to Clark Equipment Company. Hydraulic system with proportional control. 4,665,698, 5-19-87, Cl. 60-422.000.

Trussler, Geoffrey A.: *See*—
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Nowacki, Christopher; and Brisson, Alfred G., 4,715,375, Cl. 128-328.000.
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Truth Incorporated: *See*—
Schema, Anthony C., 4,658,473, Cl. 16-290.000.
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Trutna, Maynard A., to Jefferson Smurfit Corporation. Self-locking container. 4,648,549, 3-10-87, Cl. 229-143.000.

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Trutter, Walter P., to General Motors Corporation. Locking device for a rear seat back rest. 4,684,175, 8-4-87, Cl. 297-379.000.

Trutter, Walter P.: *See*—
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Hosel, Fritz; Marx, Hans-Jurgen; and Temburg, Josef, 4,712,275, Cl. 19-80.00R.
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TRW Cam Gears Limited: *See*—
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Adams, Frederick J., 4,651,841, Cl. 180-142.000.
Adams, Frederick J., 4,676,335, Cl. 180-148.000.
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TRW Ehrenreich GmbH & Co. KG: *See*—
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Brenner, Heinz; Husch, Bruno; and Gollub, Erwin, 4,671,694, Cl. 403-226.000.
Rahmede, Karl-Heinz; and Stemmer, Horst-Heinz, 4,695,181, Cl. 403-135.000.

TRW Inc.: *See*—
Asawa, Charles K., 4,637,683, Cl. 350-96.180.
Behr, Michael E.; Wozniak, Kenneth P.; Gaubis, Philip A.; Guest, Philip Q., Jr.; Graves, James L.; and Wand, Thomas F., 4,660,671, Cl. 180-142.000.
Blazek, William S., 4,702,298, Cl. 164-137.000.
Blumenthal, Jack L.; Brooks, Edward F.; and McKenna, Quentin H., 4,689,161, Cl. 252-29.000.
Brookbank, Earl B., III, 4,681,169, Cl. 166-385.000.
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Cage, Jerry L.; and Kulp, Jonathan B., 4,702,335, Cl. 180-142.000.
Carlson, Robert E.; and Clement, Joseph S., 4,666,014, Cl. 180-148.000.
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Graham, Lawrence D.; Skelley, Richard A.; Fetsko, Daniel G.; and Ardo, Ronald, 4,673,021, Cl. 164-122.000.
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Hammerle, Frederick A.; Allen, Philip M.; Geddes, Richard; and Malone, Gary R., 4,706,868, Cl. 227-149.000.
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Lindeman, Richard J.; and Rachwalski, Thaddeus M., 4,639,056, Cl. 339-17.0LC.
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Madeley, John N., 4,701,136, Cl. 439-76.000.
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Roberts, Maurice P., 4,694,925, Cl. 180-79.100.
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Schnerk, Thomas G., 4,712,240, Cl. 387-3.000.
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Vaillancourt, Steven, 4,653,050, Cl. 371-10.000.
Venable, Frederick D., 4,649,769, Cl. 74-493.000.
Wieland, Howard N., Jr.; and Lake, Donald D., 4,662,033, Cl. 24-90.00R.
Wood, Ruey E., 4,714,262, Cl. 280-95.00R.
Wood, Ruey E., Jr., 4,695,182, Cl. 403-140.000.
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Yen, Kuo-Hsiung; Stokes, Robert B.; and Huang, Marshall Y., 4,672,641, Cl. 375-122.000.
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Fohl, Artur, 4,667,893, Cl. 242-107.200.
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Fohl, Artur, 4,703,949, Cl. 280-804.000.

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McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Vavadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,642,968, Cl. 53-425.000.
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Yang, Yan Y.; and Tsair, Chu H., 4,638,517, Cl. 5-236.00R.

Tsai, Mon Y., to International Business Machines Corp. General linear shift register. 4,680,539, 7-14-87, Cl. 324-73.00R.

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Hruska, Louis W.; and Tsai, Shan-Pu, 4,665,120, Cl. 524-452.000.

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Tsamas, Anton; Bone, Eric R.; Stevens, Andrew; and Tumminello, Salvatore, Jr., to Tumminello, Salvatore, Jr. Jewelry clasp. 4,667,379, 5-26-87, Cl. 24-636.000.

Tsang, Chi-Hwa, to Intel Corporation. Plasma etching of silicon using fluorinated gas mixtures. 4,666,555, 5-19-87, Cl. 156-643.000.

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Tsang, Chung K. Multi-phase PSK demodulator. 4,641,323, 2-3-87, Cl. 375-80.000.

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Capasso, Federico; and Tsang, Won-Tien, 4,694,318, Cl. 357-30.000.

Tsao, Chein-Hwa S., to Xerox Corporation. Thermal transfer printing system. 4,688,050, 8-18-87, Cl. 346-76.0PH.

Tsao, Jeffrey Y.: *See*—
Dolat, Victor S.; Ehrlich, Daniel J.; and Tsao, Jeffrey Y., 4,672,254, Cl. 310-313.00R.

Tsao, Sherman H. Digital image processing algorithm for output devices with discrete halftone gray scale capability. 4,651,287, 3-17-87, Cl. 364-519.000.

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Borghard, William S.; Huang, Tracy J.; McCullen, Sharon B.; Schoennagel, Hans J.; Tsao, Ying-Yen P.; and Wong, Stephen S., 4,657,874, Cl. 502-35.000.
Le, Quang N.; Tsao, Ying-Yen P.; and Wong, Stephen S., 4,678,764, Cl. 502-26.000.

Tsao, Yuh H.: *See*—
Foroulis, Z. Andrew; and Tsao, Yuh H., 4,665,996, Cl. 175-61.000.

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Birjukov, Vasily D.; Kolganenko, Vladimir V.; Tsaregradsky, Vsevolod V.; Darovsky, Vladimir G.; and Titov, Boris K., 4,699,364, Cl. 269-303.000.

Tsarev, Sergei A.: *See*—
Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.

Tsau, Josef H.; and Young, James G. Heat stabilized sweetener composition containing APM. 4,704,288, 11-3-87, Cl. 426-99.000.

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Choi, Hong-Kyun; and Tsaur, Bor-Yeu, 4,700,461, Cl. 437-41.000.

Tsay, Grace C.; and Collins, Michael S., to Miles Laboratories, Inc. Vaccines for gram-negative bacteria. 4,663,160, 5-5-87, Cl. 424-87.000.

Tsay, Grace C.: *See*—
Collins, Michael S.; Tsay, Grace C.; and Seng, Richard L., 4,693,891, Cl. 424-92.000.

Tsay, Shung-Der. Portable thermos bottle with retractable suction tube. 4,684,032, 8-4-87, Cl. 215-1.00A.

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Tschanz, Lee R.: *See*—
Schmiedel, James P.; and Tschanz, Lee R., 4,647,886, Cl. 335-132.000.

Tschanz, Pierre; and Hagmann, Jean-Pierre. Bracelet for the jewelry and watch making industry. 4,671,055, 6-9-87, Cl. 59-80.000.

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Pennewiss, Horst; Schweder, Roland; and Tschepat, Wolfgang, 4,677,151, Cl. 524-501.000.

Tschepella, Johann: *See*—
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Tscheplak, Ernst: *See*—
Woerner, Guenter; Tscheplak, Ernst; and Moser, Franz, 4,714,449, Cl. 464-68.000.
Worner, Gunter; Moser, Franz; Tscheplak, Ernst; and Hausegger, Hermann, 4,662,239, Cl. 74-574.000.

Tschernenko, Stanley A.; Crane, Lawrence A.; and Boyce, Jay, to Loyola Controls, Inc. Power control system. 4,636,935, 1-13-87, Cl. 364-140.000.

Tscherter, Hans: *See*—
Kobel, Hans; Sanglier, Jean-Jacques; Tscherter, Hans; and Bolliger, Georg, 4,681,880, Cl. 514-250.000.

Tschoke, Helmut: *See*—
Guntert, Josef; Hafele, Walter; and Tschoke, Helmut, 4,705,005, Cl. 123-500.000.
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Tschopp, Claudio: *See*—
Tornare, Jean; Bofinger, Klaus; and Tschopp, Claudio, 4,639,197, Cl. 417-259.000.

Tschopp, Paul, to Ciba-Geigy AG. Photographic material with heterocylic azo dye for the silver dye bleach process. 4,661,437, 4-28-87, Cl. 430-390.000.

Tschopp, Paul; and Leppard, David G., to Ciba-Geigy AG. Process for stabilizing photographic material containing magenta coupler. 4,661,440, 4-28-87, Cl. 430-512.000.

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Tschudin-Mahrer, Rolf, to Irbit Research & Consulting AG. Foam panel. 4,666,768, 5-19-87, Cl. 428-318.600.

Tschudin-Mahrer, Rolf, to Irbit Research & Consulting AG. Foam acoustic absorption member. 4,715,473, 12-29-87, Cl. 181-286.000.

Tschudy, Donald P.: *See*—
Hess, Richard A.; and Tschudy, Donald P., 4,670,467, Cl. 514-557.000.

TSCO Corporation: *See*—
Walls, Henry M.; and Sayers, George M., Jr., 4,690,095, Cl. 116-67.00R.

Tse, Ming K., to Dow Chemical Company, The. Automated interfacial testing system. 4,662,228, 5-5-87, Cl. 73-842.000.

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Tse, Yan H.: *See*—
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Tseng, Charles C.; and Lynn, Kenneth, to Baxter Travenol Laboratories, Inc. Tubing occluder. 4,688,753, 8-25-87, Cl. 251-7.000.

Tseng, Chi-Ping, to Du Pont de Nemours, E. I., and Company. Herbicidal ortho-sulfamoyl sulfonamides. 4,652,304, 3-24-87, Cl. 71-92.000.

Tseng, Chin-Shan. Lock centers and keys for padlocks. 4,658,606, 4-21-87, Cl. 70-38.00A.

Tseng, Eric S.: *See*—
Basol, Bulent M.; and Tseng, Eric S., 4,675,468, Cl. 136-256.000.

Tserng, Hua Q.: *See*—
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Miller, Jesse D., Jr.; Tshudy, James A.; and Unruh, Ralph E., 4,689,259, Cl. 428-142.000.

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Tsilibes, George N., to Eastman Kodak Company. Image recording apparatus in which exposure levels are a function of image content. 4,707,709, 11-17-87, Cl. 346-108.000.

Tsimbler, Jury A.: *See*—
Alexandrov, Adolf M.; Vasiliev, Evgeny G.; Iskanderov, Alexandr A.; Magdenko, Vladimir S.; Melikov, Semen G.; Avsharov, Eduard R.; Tsimbler, Jury A.; and Presnyakov, Vladimir I., 4,711,182, Cl. 104-283.000.

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Tsitovsky, Ilya L.: *See*—
Quinn, Daniel J.; Mulholland, Wayne A.; Bond, Robert H.; Olla, Michael A.; Cupples, Jerry S.; Tsitovsky, Ilya L.; Mozdzen, Barbara R.; Held, Charles F.; Wilson, Linda S.; and Nguyen, Yen T., 4,685,998, Cl. 156-633.000.

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Asatiani, Georgy N.; Pikus, Evgeny A.; Kutelia, Elgudzha R.; Tsivtsivadze, David M.; Mudzhiri, Yason N.; and Dzhalabadze, Nikolai V., 4,695,360, Cl. 204-404.000.

Tso, Rosa Y. M.: *See*—
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Tsou, Dean T.; Blachman, Marc W.; and Burrington, James D., to Standard Oil Company, The. Method of producing adiponitrile. 4,681,968, 7-21-87, Cl. 558-361.000.

Tsou, Patrick K.: *See*—
Debbaut, Christian A. M.; Gac, Norman; Lopez, Eugene F.; Moyer, Wendell W.; Terrell, David; and Tsou, Patrick K., 4,670,069, Cl. 156-48.000.

Tsou, Yeong-Haw, to CC&T Product Development Co., Inc. Apparatus for making perspective drawings. 4,688,334, 8-25-87, Cl. 33-444.000.

Tsubai, Miki, legal representative: *See*—
Nakamura, Naotaka; Miyamoto, Yoshimi; Momiyama, Motokazu; Tsubai, Toshiji, deceased; Teratani, Tatsuo; and Ishihara, Nobuyuki, 4,652,705, Cl. 200-19.00R.

Tsubai, Toshiji, deceased: *See*—
Nakamura, Naotaka; Miyamoto, Yoshimi; Momiyama, Motokazu; Tsubai, Toshiji, deceased; Teratani, Tatsuo; and Ishihara, Nobuyuki, 4,652,705, Cl. 200-19.00R.

Tsubai, Yasuo; Okazaki, Koji; and Yoshida, Akio, to Mitsubishi Paper Mills, Ltd. Dying etched-bleached silver images using dye solutions with glycol ether. 4,643,962, 2-17-87, Cl. 430-205.000.

Tsubai, Yasuo; Okazaki, Koji; Horii, Shoichi; and Yoshida, Akio, to Mitsubishi Paper Mills, Ltd. Processing compositions for silver complex diffusion transfer process. 4,649,096, 3-10-87, Cl. 430-249.000.

Tsubaki, Kazumi; Koto, Noriaki; and Maeda, Kouichi, to Nissan Chemical Industries, Ltd. Process for producing chlorobenzene sulfochloride. 4,666,637, 5-19-87, Cl. 260-543.00R.

Tsubaki, Tohru: *See*—
Kamura, Yukio; Nakano, Seizo; Tsubaki, Tohru; Miwada, Satoshi; and Amano, Naoki, 4,658,329, Cl. 361-332.000.

Tsubaki, Yasuhiro: *See*—
Hagiwara, Haruo; Tsukamoto, Hideo; and Tsubaki, Yasuhiro, 4,712,392, Cl. 68-18.00C.

Tsubakimoto Chain Co.: *See*—
Kimura, Kazuo; and Maruyama, Masao, 4,708,696, Cl. 474-103.000.
Kitaori, Tadahiro; Haginoya, Tsutomu; and Kozakura, Nobuto, 4,711,676, Cl. 148-319.000.
Kondo, Hirokazu; and Takino, Shigekatsu, 4,646,650, Cl. 104-172.300.
Maruyama, Asao; and Miyagawa, Kohzo, 4,639,187, Cl. 414-787.000.
Minami, Hideaki, 4,679,977, Cl. 414-533.000.

Murai, Masasumi, 4,691,640, Cl. 104-140.000.
Nakamura, Kenichiro, 4,679,451, Cl. 74-606.00R.
Ohmura, Kazumi; Suyama, Yasuyuki; and Nagasawa, Hiroaki, 4,664,575, Cl. 414-32.000.
Tsubakimoto, Yasumasa, 4,704,098, Cl. 474-206.000.
Tsubouchi, Yuzo, 4,639,181, Cl. 414-349.000.
Yamazaki, Akitoshi; and Miyauchi, Kazunori, 4,664,589, Cl. 414-730.000.
Yasuda, Tadao; Kamio, Toru; and Sugimoto, Yoshiaki, 4,643,703, Cl. 474-242.000.
Yokoi, Satoru; and Kondo, Hirokazu, 4,692,694, Cl. 324-158.00F.
Tsubakimoto, Giichi: *See*—
Inada, Shoshichiro; Furukawa, Kurune; Masui, Takachika; Honda, Keijiro; Ogasawara, Joji; and Tsubakimoto, Giichi, 4,714,791, Cl. 568-913.000.
Tsubakimoto Precision Products Co., Ltd.: *See*—
Itoh, Katsutoshi, 4,662,763, Cl. 384-45.000.
Tsubakimoto, Tsuneo; Fujikawa, Iwao; and Kushino, Mitsuo, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Spacers for liquid crystal display device. 4,640,584, 2-3-87, Cl. 350-344.000.
Tsubakimoto, Tsuneo; Shimomura, Tadao; and Irie, Yoshio, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Absorbent article. 4,666,983, 5-19-87, Cl. 525-119.000.
Tsubakimoto, Yasumasa, to Tsubakimoto Chain Company. Combination chain link. 4,704,098, 11-3-87, Cl. 474-206.000.
Tsubata, Hideo: *See*—
Takahashi, Fumitaka; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, 4,672,214, Cl. 250-551.000.
Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Oji, Nobuaki; and Mohri, Minoru, 4,674,828, Cl. 350-96.130.
Takahashi, Fumitaka; Kimura, Yoshihiko; Tsubata, Hideo; Ohji, Nobuaki; and Sashida, Kiyoshi, 4,707,057, Cl. 350-96.120.
Tsubo, Shuzo, to Tokyo Shibaura Denki Kabushiki Kaisha. Sheet feeding apparatus. 4,674,736, 6-23-87, Cl. 271-122.000.
Tsuboi, Kunio: *See*—
Fujio, Akihiko; Iwaki, Hiroshi; Tsuboi, Kunio; and Sutoh, Akihiko, 4,711,551, Cl. 355-3.0DD.
Segawa, Takashi; and Tsuboi, Kunio, 4,707,321, Cl. 264-294.000.
Tsuboi, Masaharu, to Honda Giken Kogyo Kabushiki Kaisha. Split crankcase for V-type engine. 4,674,455, 6-23-87, Cl. 123-195.00R.
Tsuboi, Masaharu, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle rear suspension subassembly. 4,706,774, 11-17-87, Cl. 180-227.000.
Tsuboi, Noboru: *See*—
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,671,750, Cl. 418-150.000.
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,695,233, Cl. 418-83.000.
Tsuboi, Nobuyuki. Precision roller attachment for automation procession. 4,638,741, 1-27-87, Cl. 105-141.000.
Tsuboi, Shigeru: *See*—
Yano, Naomichi; Ueno, Tadatsugu; and Tsuboi, Shigeru, 4,715,978, Cl. 252-70.000.
Tsuboi, Shinichi: *See*—
Kume, Toyohiko; Tsuboi, Shinichi; Isono, Kunihiro; Sasaki, Shoko; and Hattori, Yumi, 4,675,331, Cl. 514-367.000.
Kume, Toyohiko; Tsuboi, Shinichi; and Isono, Kunihiro, 4,692,436, Cl. 514-129.000.
Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,647,570, Cl. 514-341.000.
Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,678,795, Cl. 514-341.000.
Shiokawa, Kozo; Tsuboi, Shinichi; Kagabu, Shinzo; and Moriya, Koichi, 4,680,294, Cl. 514-256.000.
Tsuboi, Takashi: *See*—
Horie, Akira; and Tsuboi, Takashi, 4,644,240, Cl. 318-768.000.
Shionoya, Toshio; and Tsuboi, Takashi, 4,665,345, Cl. 315-169.400.
Tsubokawa, Yoshitoki, to Yoshida Kogyo K.K. Slide fastener suitable for use on articles made of plastics material. 4,675,950, 6-30-87, Cl. 24-390.000.
Tsubokawa, Yoshitoki: *See*—
Yoshida, Hiroshi; and Tsubokawa, Yoshitoki, 4,651,389, Cl. 24-433.000.
Tsubokura, Shizuo; Okamoto, Hiroyuki; and Takayanagi, Itsuo, to Yazaki Corporation. Diode-containing connector. 4,675,718, 6-23-87, Cl. 357-72.000.
Tsubota, Kiyomasa: *See*—
Tani, Tatsuhiro; Nagasawa, Hiroyuki; Tomita, Tosio; Tsubota, Kiyomasa; and Takahashi, Akira, 4,644,201, Cl. 310-51.000.
Tsubota, Masaharu: *See*—
Yonezu, Kunio; Nitta, Hidetsugu; and Tsubota, Masaharu, 4,689,571, Cl. 324-432.000.
Tsubota, Shinya, to Hitachi, Ltd. Cassette loading device and method. 4,661,867, 4-28-87, Cl. 360-96.500.
Tsubota, Toshio: *See*—
Nishizawa, Shun-ichi; Tsubota, Toshio; and Chikura, Takashi, 4,698,568, Cl. 318-481.000.
Tsubota, Yasumasa: *See*—
Fukunaga, Yukio; Shibahata, Yasuji; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,705,130, Cl. 180-140.000.
Nakamura, Kenji; Shibahata, Yasuji; Fukunaga, Yukio; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,669,567, Cl. 180-140.000.
Shibahata, Yasuji; Tsubota, Yasumasa; and Uno, Takaaki, 4,640,379, Cl. 180-140.000.
Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,666,013, Cl. 180-141.000.
Shibahata, Yasuji; Fukunaga, Yukio; Nakamura, Kenji; Tsubota, Yasumasa; Irie, Namio; and Kuroki, Junsuke, 4,705,131, Cl. 180-140.000.
Tsubouchi, Haruyoshi: *See*—
Yoshioka, Masahiro; and Tsubouchi, Haruyoshi, 4,640,630, Cl. 384-129.000.
Tsubouchi, Kaoru: *See*—
Nakamura, Kaoru; Sakata, Shinji; Ochiai, Chiaki; Furuta, Yoichi; and Tsubouchi, Kaoru, 4,707,989, Cl. 60-589.000.
Nishii, Michiharu; Furuta, Youichi; Tsubouchi, Kaoru; Murata, Takeo; Shibatani, Juichi; and Kiriyama, Takashi, 4,683,807, Cl. 92-169.000.
Tsubouchi, Toshiyuki; and Hata, Hitoshi, to Idemitsu Kosan Company Limited. Working fluid for traction drive. 4,684,754, 8-4-87, Cl. 585-21.000.
Tsubouchi, Toshiyuki; Minokami, Tomiyasu; and Shimizu, Nobuaki, to Idemitsu Kosan Company Limited. Process for introduction of styrenes in side chain of substituted aromatic compounds. 4,703,124, 10-27-87, Cl. 546-352.000.
Tsubouchi, Toshiyuki; and Hata, Hitoshi, to Idemitsu Kosan Company, Limited. Fluid for traction drive. 4,704,490, 11-3-87, Cl. 585-1.000.
Tsubouchi, Toshiyuki: *See*—
Minokami, Tomiyasu; Saito, Yoshinori; and Tsubouchi, Toshiyuki, 4,689,436, Cl. 585-422.000.
Tsubouchi, Yuzo, to Tsubakimoto Chain Co. Pallet exchange device. 4,639,181, 1-27-87, Cl. 414-349.000.
Tsuboyama, Akira; Inaba, Yutaka; and Kitayama, Hiroyuki, to Canon Kabushiki Kaisha. Ferroelectric liquid crystal apparatus having protective cover means. 4,674,839, 6-23-87, Cl. 350-334.000.
Tsuboyama, Akira; Katagiri, Kazuharu; and Kanbe, Junichiro, to Canon Kabushiki Kaisha. Dimensions of spacer particles for a ferroelectric liquid crystal display. 4,712,875, 12-15-87, Cl. 350-344.000.
Tsuboyama, Akira: *See*—
Okada, Shinjiro; Kanbe, Junichiro; Tsuboyama, Akira; and Inaba, Yutaka, 4,712,877, Cl. 350-350.00S.
Tsubuko, Kazuo: *See*—
Nagai, Kayoko; and Tsubuko, Kazuo, 4,690,881, Cl. 430-114.000.
Okawara, Makoto; and Tsubuko, Kazuo, 4,634,651, Cl. 430-114.000.
Tsubura, Shinichi: *See*—
Ozeki, Takeshi; and Tsubura, Shinichi, 4,674,046, Cl. 364-414.000.
Tsuchida, Haruo: *See*—
Endo, Syuzo; and Tsuchida, Haruo, 4,657,161, Cl. 222-256.000.
Tsuchida, Isamu. Expander and guider roller. 4,656,702, 4-14-87, Cl. 26-75.000.
Tsuchida, Isamu. Apparatus for correcting the lateral displacement of a moving metallic sheet. 4,674,667, 6-23-87, Cl. 226-18.000.
Tsuchida, Makoto: *See*—
Odo, Satoshi; Iida, Tetsuo; Abe, Atsushi; and Tsuchida, Makoto, 4,702,201, Cl. 123-2.000.
Tsuchida, Manabu; and Yoshida, Masanobu, to Fujitsu Limited. Programmable read-only memory (PROM) device having reduced programming voltage capability. 4,649,521, 3-10-87, Cl. 365-185.000.
Tsuchida, Manabu: *See*—
Higuchi, Mitsuo; and Tsuchida, Manabu, 4,709,165, Cl. 307-350.000.
Tsuchida, Naoki: *See*—
Aoi, Kazuo; and Tsuchida, Naoki, 4,679,532, Cl. 123-90.220.
Tsuchida, Shin; and Ito, Hideo, to Sumitomo Light Metal Industries, Ltd. Aluminum alloy sheet for containers excellent in corrosion resistance and method of producing same. 4,707,195, 11-17-87, Cl. 148-11.50A.
Tsuchida, Shin: *See*—
Baba, Yoshio; and Tsuchida, Shin, 4,645,544, Cl. 148-12.70A.
Ohashi, Azusa; Shirai, Akira; Sakaki, Hirokazu; Tanabe, Zenichi; Tsuchida, Shin; and Hayashi, Yoshikatsu, 4,634,656, Cl. 430-278.000.
Takizawa, Kazushige; Sakaki, Hirokazu; Abe, Yuji; Matsuo, Mamoru; Tajiri, Akira; and Tsuchida, Shin, 4,686,083, Cl. 420-548.000.
Tsuchida, Takayasu; Otsuka, Noboru; and Sonoda, Hiroshi, to Ajinomoto Co., Inc. Process for producing L-isoleucine by fermentation. 4,656,135, 4-7-87, Cl. 435-116.000.
Tsuchida, Tetsuo; Kawaguchi, Takeshi; Hayashi, Tsutomu; and Yamanoi, Yoshinori, to Honda Giken Kogyo Kabushiki Kaisha. Antilock brake device for vehicles. 4,664,233, 5-12-87, Cl. 188-181.00A.
Tsuchida, Tetsuo: *See*—
Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,660,683, Cl. 188-18.00A.
Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,673,221, Cl. 303-6.00R.
Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,694,938, Cl. 188-181.00A.
Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,697,825, Cl. 280-703.000.
Hayashi, Tsutomu; Kawaguchi, Takeshi; and Tsuchida, Tetsuo, 4,702,339, Cl. 180-219.000.
Tsuchida, Toshio: *See*—
Nishii, Shigetoshi; Matsuoka, Toshimitsu; Tsuchida, Toshio; and Hosaka, Atsushi, 4,657,296, Cl. 296-1.00C.
Tsuchida, Toyohiko: *See*—
Ueno, Yutaka; Tsuchida, Toyohiko; and Matsuoka, Akira, 4,668,154, Cl. 414-607.000.

Tsuchida, Yasuyuki: *See*—
Deguchi, Yutaka; and Tsuchida, Yasuyuki, 4,640,601, Cl. 355-3.00R.
Deguchi, Yutaka; and Tsuchida, Yasuyuki, 4,653,895, Cl. 355-1.000.
Tsuchida, Yoshio: *See*—
Komatsu, Kousuke; Miyauchi, Tsutomu; Misao, Ikuo; Kimura, Mutsumi; Fujiwara, Tadashi; Tsuchida, Yoshio; and Kuroiwa, Junko, 4,646,134, Cl. 358-11.000.
Tsuchida, Youichi: *See*—
Miyamori, Nobuyuki; Tomofuji, Yoshiaki; Izawa, Kiyosato; and Tsuchida, Youichi, 4,711,977, Cl. 178-18.000.
Tsuchie, Kimihiro. Driving device for bicycle. 4,702,486, 10-27-87, Cl. 280-255.000.
Tsuchie, Takanori: *See*—
Miyazaki, Haruhiko; Hirai, Koichi; Uda, Taizo; Nakamura, Yasuo; Ikezawa, Harumi; and Tsuchie, Takanori, 4,647,551, Cl. 502-200.000.
Tsuchihashi, Hidehisa; and Naito, Kaoru, to Nippon Kogaku K. K. Image recording apparatus with thermal head. 4,661,825, 4-28-87, Cl. 346-76.0PH.
Tsuchihashi, Hidehisa: *See*—
Sato, Hiroshi; Kadowaki, Kohei; Naito, Kaoru; Toyoda, Kenji; and Tsuchihashi, Hidehisa, 4,704,617, Cl. 346-76.0PH.
Tsuchihashi, Koji: *See*—
Yoshino, Yoshio; Tsuchihashi, Koji; Omae, Yoshihiro; Tsujikawa, Kenzo; Takaoka, Takashi; and Yamaguchi, Yukio, 4,655,878, Cl. 201-1.000.
Tsuchihashi, Masaaki: *See*—
Okumoto, Tadaoki; Nakata, Rikizo; Ichikawa, Masayoshi; Tsuchihashi, Masaaki; and Sakai, Koichi, 4,645,788, Cl. 524-308.000.
Tsuchihashi, Masaru: *See*—
Ando, Toshiharu; and Tsuchihashi, Masaru, 4,638,021, Cl. 523-457.000.
Ando, Toshiharu; Yasuda, Kazuo; Nogami, Fumio; and Tsuchihashi, Masaru, 4,647,605, Cl. 523-444.000.
Ando, Toshiharu; Yasuda, Kazuo; Itabashi, Yoshifumi; and Tsuchihashi, Masaru, 4,670,534, Cl. 528-100.000.
Itabashi, Yoshifumi; Ando, Toshiharu; Yasuda, Kazuo; and Tsuchihashi, Masaru, 4,652,597, Cl. 523-457.000.
Yasuda, Kazuo; Ando, Toshiharu; Itabashi, Yoshifumi; and Tsuchihashi, Masaru, 4,681,904, Cl. 523-457.000.
Tsuchikawa, Syuji: *See*—
Shimozato, Yasuyuki; Tsuchikawa, Syuji; Kimura, Shinichi; and Noro, Masahiko, 4,659,790, Cl. 526-87.000.
Tsuchimoto, Shuhei: *See*—
Kita, Ryusuke; Nishigaki, Satoshi; and Tsuchimoto, Shuhei, 4,701,997, Cl. 437-5.000.
Tsuchimoto, Shuuhei: *See*—
Kadono, Masaru; Nago, Kumio; Yamamoto, Tatsushi; Muramatsu, Tersuro; Tsuchimoto, Shuuhei; Yoshikawa, Mitsuhiko; and Tomita, Masatoshi, 4,702,935, Cl. 427-42.000.
Tsuchimoto, Yoshihiro; and Takesa, Kazuhiko, to Asahi Glass Company Ltd.; and Nippon Kokan Kabushiki Kaisha. Butterfly valve for controlling high-temperature fluid. 4,697,615, 10-6-87, Cl. 137-340.000.
Tsuchimoto, Yuichi: *See*—
Kinugasa, Toshiyuki; Furuya, Tamio; Ishige, Yoshiki; Tsuchimoto, Yuichi; and Takahashi, Shoji, 4,714,424, Cl. 425-388.000.
Tsuchinari, Akihiro; Shimobayashi, Osamu; and Hattori, Hisahiro, to Harima Refractory Co., Ltd. Refractory nozzles used around ladle and tundish. 4,676,412, 6-30-87, Cl. 222-591.000.
Tsuchino, Hisanori: *See*—
Teshima, Manami; Tsuchino, Hisanori; Takeuchi, Hiroshi; and Shimada, Fumio, 4,654,533, Cl. 250-484.100.
Tsuchino, Kazunori: *See*—
Fujiwara, Michio; Kazumoto, Yoshio; Nomaguchi, Tamotsu; Tsuchino, Kazunori; Kawajiri, Kazuhiko; and Hisamori, Youichi, 4,662,176, Cl. 60-526.000.
Kawajiri, Kazuhiko; Fujiwara, Michio; Tsuchino, Kazunori; and Hisamori, Youichi, 4,711,091, Cl. 60-517.000.
Tsuchita, Kenji: *See*—
Tomizawa, Fumio; Tsuchita, Kenji; and Sugiyama, Sakae, 4,655,085, Cl. 73-638.000.
Tomizawa, Fumio; Mizuno, Katsuhiro; Ozaki, Norihiko; and Tsuchita, Kenji, 4,668,976, Cl. 358-27.000.
Tsuchitani, Masatoshi; and Nakajima, Ryoichi, to Maruzen Petrochemical Co., Ltd. Process for the preparation of an intermediate pitch for manufacturing carbon products. 4,705,618, 11-10-87, Cl. 208-44.000.
Tsuchitani, Shigeki: *See*—
Sugawara, Tooru; Tsuchitani, Shigeki; Kinjo, Noriyuki; and Ohara, Shuichi, 4,642,601, Cl. 338-35.000.
Tsuchiya, Akira, to Kabushiki Kaisha Toshiba. High voltage generating device for X-ray apparatus. 4,653,082, 3-24-87, Cl. 378-101.000.
Tsuchiya, Akira, to Kabushiki Kaisha Toshiba. X-ray diagnostic apparatus. 4,670,893, 6-2-87, Cl. 378-105.000.
Tsuchiya, Akira, to Kabushiki Kaisha Toshiba. X-ray generating apparatus. 4,700,372, 10-13-87, Cl. 378-105.000.
Tsuchiya, Akira, to Kabushiki Kaisha Toshiba. Ripple-free DC high voltage generating apparatus for X-ray tube. 4,710,860, 12-1-87, Cl. 363-28.000.
Tsuchiya, Fumio: *See*—
Fukuda, Minoru; Takahashi, Hideaki; Sugiura, June; Tsuchiya, Fumio; and Kihara, Toshimasa, 4,691,298, Cl. 365-189.000.
Tsuchiya, Fumitomo: *See*—
Sasaki, Kan; Takimura, Keisuke; Katayama, Nobuaki; and Tsuchiya, Fumitomo, 4,645,029, Cl. 180-249.000.
Tsuchiya, Hideki: *See*—
Taniguchi, Kayoko; Tsuchiya, Hideki; and Toyama, Masaaki, 4,676,645, Cl. 356-356.000.
Tsuchiya, Hiroaki; and Nakahata, Kimio, to Canon Kabushiki Kaisha. Corona discharging device. 4,672,505, 6-9-87, Cl. 361-235.000.
Tsuchiya, Hiroaki; Tanaka, Kazuki; and Osawa, Keishi, to Canon Kabushiki Kaisha. Corona discharging apparatus. 4,680,669, 7-14-87, Cl. 361-230.000.
Tsuchiya, Hiroaki: *See*—
Honda, Haruhisa; Tsuchiya, Hiroaki; Setani, Michitaka; and Tokuhara, Mitsuhiro, 4,641,944, Cl. 355-1.000.
Ueno, Ryuzo; Itoh, Shigeru; Fujimoto, Shine; Komatsu, Yumiko; and Tsuchiya, Hiroaki, 4,655,844, Cl. 106-309.000.
Tsuchiya, Hiroshi; Morio, Kazuhiko; Murase, Hisashi; and Ohkawa, Kazuo, to Asahi Denka Kogyo K.K. Energy beam curable composition. 4,684,671, 8-4-87, Cl. 522-31.000.
Tsuchiya, Hiroshi: *See*—
Kitada, Masahiro; Tanabe, Hideo; Shimizu, Noboru; Tsuchiya, Hiroshi; and Katsumata, Masao, 4,663,607, Cl. 338-32.00H.
Shirose, Meizo; Takahashi, Jiro; Tsuchiya, Hiroshi; and Kaneko, Tadashi, 4,652,509, Cl. 430-110.000.
Tsuchiya, Hiroyoshi; Kurosawa, Toshiharu; Otsuka, Hirotaka; Maruyama, Yuuji; and Nakazato, Katsuo, to Matsushita Electric Industrial Co., Ltd. Apparatus for processing image signal. 4,692,811, 9-8-87, Cl. 358-282.000.
Tsuchiya, Hiroyuki: *See*—
Kato, Kinya; and Tsuchiya, Hiroyuki, 4,690,565, Cl. 356-446.000.
Tsuchiya, Ichiro: *See*—
Takimoto, Hiroaki; and Tsuchiya, Ichiro, 4,661,140, Cl. 65-157.000.
Tsuchiya, Isamu; and Ihana, Toshio, to Teac Corporation. Data transfer apparatus for use with a magnetic disk cartridge. 4,665,454, 5-12-87, Cl. 360-97.000.
Tsuchiya, Isamu; and Hirasawa, Kiyoshi, to Teac Corporation. Recording disk centering and clamping apparatus. 4,689,782, 8-25-87, Cl. 369-270.000.
Tsuchiya, Isamu; Kawasaki, Tsutomu; and Sakai, Yoshiaki, to Teac Corporation. Data transfer apparatus having a simplified clamp mechanism for holding a disklike record medium in place. 4,694,361, 9-15-87, Cl. 360-97.000.
Tsuchiya, Kazuo: *See*—
Wakita, Kazuto; Tsuchiya, Kazuo; Nagayasu, Isao; and Enoto, Ikuo, 4,642,260, Cl. 428-215.000.
Wakita, Kazuto; Tsuchiya, Kazuo; Kobayashi, Kazuaki; Higashisuji, Ken; and Kojima, Teruhisa, 4,675,143, Cl. 264-104.000.
Tsuchiya, Keiko: *See*—
Nakayama, Masatoshi; Morita, Haruyuki; Kubota, Yuichi; and Tsuchiya, Keiko, 4,699,847, Cl. 428-522.000.
Tsuchiya, Kiyomitsu: *See*—
Ohta, Hiromi; Ogawa, Shinji; Kojikawa, Yoshiaru; Fukumura, Kenichi; Tsuchiya, Kiyomitsu; Kittaka, Kiyoshi; and Narita, Katsushi, 4,707,999, Cl. 62-474.000.
Tsuchiya, Kiyoshi: *See*—
Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, 4,653,594, Cl. 173-49.000.
Tsuchiya, Kouji: *See*—
Sawazaki, Masatoshi; and Tsuchiya, Kouji, 4,671,083, Cl. 66-151.000.
Tsuchiya, Kunimasa: *See*—
Nakao, Shinroku; Ishii, Yoshiyasu; Ishii, Kenshun; and Tsuchiya, Kunimasa, 4,653,745, Cl. 272-73.000.
Tsuchiya, Makoto: *See*—
Yokoyama, Yuuichi; Masuhara, Eiichi; Kadoma, Yoshinori; Tarumi, Niro; and Tsuchiya, Makoto, 4,650,843, Cl. 526-245.000.
Tsuchiya, Masahiro, to Clarion Co., Ltd. Spread-spectrum communication system. 4,691,326, 9-1-87, Cl. 375-1.000.
Tsuchiya, Masuo, to Nissan Motor Company, Limited. Power steering gear. 4,705,132, 11-10-87, Cl. 180-148.000.
Tsuchiya, Satoshi; Aoyagi, Mitaoru; and Kuniyoshi, Yasunobu, to Sony Corporation. Automatic white balance control circuit. 4,646,161, 2-24-87, Cl. 358-29.000.
Tsuchiya, Seigo: *See*—
Ueda, Masahiro; Hakamata, Kohei; and Tsuchiya, Seigo, 4,685,318, Cl. 72-185.000.
Tsuchiya, Shinji: *See*—
Ishii, Wataru; Miyazawa, Shozo; Tsuchiya, Shinji; Nakane, Hisashi; and Yokota, Akira, 4,702,992, Cl. 430-272.000.
Tsuchiya, Shizuo: *See*—
Ohta, Morio; Tsuchiya, Shizuo; Nakano, Yoshito; Aikawa, Masaru; and Asaumi, Seiji, 4,641,156, Cl. 346-160.000.
Ohta, Morio; and Tsuchiya, Shizuo, 4,649,404, Cl. 346-160.000.
Tsuchiya, Sohji; Fujikawa, Wataru; Kojima, Toshikuni; Higuchi, Sadashi; and Yamashita, Akio, to Matsushita Electric Industrial Co., Ltd. Electrochromic display device. 4,660,939, 4-28-87, Cl. 350-357.000.
Tsuchiya, Soji: *See*—
Yoshimura, Susumu; Kudoh, Yasuo; Tsuchiya, Soji; Kojima, Toshikuni; and Takahashi, Shohzoh, 4,679,124, Cl. 361-433.000.
Tsuchiya, Syuuzi: *See*—
Takahashi, Yasuhiro; Arai, Kazutaka; Ohara, Yoshio; Matsumoto, Hiroo; and Tsuchiya, Syuuzi, 4,709,082, Cl. 560-105.000.
Tsuchiya, Tatsuhiko; and Komatsu, Norimasa, to Alps Electric Co., Ltd. Cassette tape recorder with plural tape guide structure. 4,646,186, 2-24-87, Cl. 360-130.210.

uchiya, Tatsuo; and Hozumi, Kazuhiro, to Matsushita Electric Industrial Co., Ltd.; and Kuroda Precision Industries Ltd. Air pressure shock absorber. 4,693,454, 9-15-87, Cl. 267-226.000.

uchiya, Toshihiro: *See*—
Kobayashi, Kiyoshi; and Tsuchiya, Toshihiro. 4,646,380, Cl. 15-41.00R.

uchiya, Toshio: *See*—
Takada, Minoru; and Tsuchiya, Toshio. 4,708,361, Cl. 280-663.000.

uchiya, Tsutomu: *See*—
Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki. 4,634,688, Cl. 514-41.000.
Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki. 4,661,474, Cl. 514-41.000.

suchiya, William S. Flexible line cutting apparatus. 4,707,919, 11-24-87, Cl. 30-276.000.

suchiya, Yasuhiro: *See*—
Kondo, Katsumi; Tsuchiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro. 4,681,647, Cl. 156-172.000.

Tsuchiya, Yasuyuki; and Sakamoto, Hiroyuki, to Nippon Paint Co., Ltd. Water-based paint composition. 4,692,483, 9-8-87, Cl. 523-406.000.

Tsuchiya, Yasuyuki: *See*—
Otsuki, Yutaka; Omika, Hiroyoshi; Oshima, Akio; Araki, Yoshihiko; and Tsuchiya, Yasuyuki. 4,642,325, Cl. 525-65.000.

Tsuchiya, Yoshikazu: *See*—
Tagami, Katsutoshi; Tsuchiya, Yoshikazu; and Nakamura, Kazuo. 4,652,853, Cl. 340-52.00F.

Tsuchiya, Yoshiki, to St. Thomas Institute. Methods of inducing resistance to bacterial and viral infections. 4,666,893, 5-19-87, Cl. 514-78.000.

Tsuchiya, Yoshimi: *See*—
Yoshizawa, Junji; Tsuchiya, Yoshimi; Hirayama, Yukio; Shimada, Kaoru; Mino, Nobuyuki; Nakamichi, Kyoko; and Matsumoto, Ikuo. 4,668,799, Cl. 514-252.000.

Tsuchiya, Yukikazu, to Nippon Kogaku K. K. Magnification changing mechanism of a microscope. 4,650,296, 3-17-87, Cl. 350-519.000.

Tsuchiya, Yukio; and Matsukawa, Yutaka, to Pioneer Electronic Corporation. Wall-mounted resin speaker cabinet. 4,640,381, 2-3-87, Cl. 181-144.000.

Tsuchiya, Yukio: *See*—
Sato, Yoshinori; Tsuchiya, Yukio; and Fujimoto, Keiji. 4,707,363, Cl. 426-3.000.

Tsuchiya, Yutaka; Koishi, Musubu; and Takeshima, Akira, to Hamamatsu Photonics Kabushiki Kaisha. Instruments for measuring light pulses clocked at high repetition rate and electron tube devices therefor. 4,645,918, 2-24-87, Cl. 250-213.0VT.

Tsuchiya, Yutaka; Koishi, Musubu; and Takeshima, Akira, to Hamamatsu Photonics Kabushiki Kaisha. Instruments for measuring light pulses clocked at high repetition rate and electron tube devices therefor. 4,694,154, 9-15-87, Cl. 250-213.0VT.

Tsuchiya, Yutaka; Aoshima, Shinichirou; and Takeshima, Akira, to Hamamatsu Photonics Kabushiki Kaisha. Laser pulse train jitter measuring device. 4,705,397, 11-10-87, Cl. 356-345.000.

Tsuchiya, Yutaka: *See*—
Yoshino, Hiroshi; Tsuchiya, Yutaka; Kaneko, Takeru; Nakazawa, Takahiro; Ikeda, Masuhiro; Araki, Shin; Yamatsu, Kiyomi; Tachibana, Shinro; and Arakawa, Yoshihiro. 4,707,468, Cl. 514-16.000.

Tsuchiyama, Yuji: *See*—
Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio. 4,656,862, Cl. 72-443.000.
Kogure, Tsuneo; Tsuchiyama, Yuji; Amano, Tadashi; Takahashi, Hideaki; Sekita, Katsuji; and Akami, Ichio. 4,672,831, Cl. 72-21.000.

Tsuda, George I.; and Edelsohn, Charles R., to Hughes Aircraft Company. Monopulse cavity-backed multipole antenna system. 4,649,391, 3-10-87, Cl. 342-153.000.

Tsuda, George I., to Hughes Aircraft Company. Single channel tracking for frequency hopping communication systems. 4,679,207, 7-7-87, Cl. 375-1.000.

Tsuda, Hiroshi: *See*—
Hashimoto, Shintaro; Morita, Akitaka; and Tsuda, Hiroshi. 4,706,288, Cl. 381-51.000.
Kasai, Junichi; Imai, Hiroshi; and Tsuda, Hiroshi. 4,694,497, Cl. 381-63.000.
Kasai, Junichi; Imai, Hiroshi; and Tsuda, Hiroshi. 4,703,502, Cl. 381-24.000.

Tsuda, Hisanori: *See*—
Osada, Yoshiyuki; Tsuda, Hisanori; Sano, Masafumi; Omata, Satoshi; Takasu, Katsuji; and Hirai, Yutaka. 4,645,684, Cl. 427-38.000.

Tsuda, Ichiro: *See*—
Yamaguchi, Youko; Shimizu, Hiroshi; Tsuda, Ichiro; Yano, Masafumi; and Okumura, Tokiko. 4,710,964, Cl. 382-17.000.

Tsuda, Jou; and Ishii, Masami, to Aisin Seiki Kabushiki Kaisha; and Tsuda, Jou. Electroless plating bath for forming a nickel alloy coating having a high phosphorus content. 4,636,255, 1-13-87, Cl. 106-1.220.

Tsuda, Jyou: *See*—
Yasuda, Keiji; Oda, Yukihisa; Hamajima, Shigemitsu; Ishii, Masami; Nakanishi, Katsumi; Tsuzuki, Takayoshi; and Tsuda, Jyou. 4,714,804, Cl. 200-11.0DA.

Tsuda, Keishiro: *See*—
Asai, Michihiko; Shimura, Yukio; Tsuda, Keishiro; Ueno, Susumu; Nomura, Hirokazu; and Imada, Kiyoshi. 4,639,379, Cl. 427-40.000.

Tsuda, Kenji; and Namikoshi, Hajime, to Daicel Chemical Industries, Ltd. Mortar admixture. 4,707,187, 11-17-87, Cl. 106-93.000.

Tsuda, Kenji; Matsumoto, Nobuyoshi; and Tsukagawa, Masahide, to Daicel Chemical Industries, Ltd. Cement composition for underwater concreting. 4,707,188, 11-17-87, Cl. 106-93.000.

Tsuda, Kiyoshi: *See*—
Suzuki, Munehiro; Kimpara, Masaomi; and Tsuda, Kiyoshi. 4,657,912, Cl. 514-275.000.

Tsuda, Koji: *See*—
Niiho, Masaaki; Itoh, Kiyoshi; Suzuki, Shinichi; Itagaki, Takuo; and Tsuda, Koji. 4,636,068, Cl. 356-5.000.
Suzuki, Shinichi; Hara, Masato; Tsuda, Koji; Takasugi, Eiji; Kinba, Toshifumi; and Kaneko, Atsumi. 4,702,008, Cl. 33-1.00T.

Tsuda, Kouji: *See*—
Iwata, Akira; Tamaniaki, Masahiro; Tanaka, Genji; Taniguchi, Masaaki; and Tsuda, Kouji. 4,671,917, Cl. 264-332.000.

Tsuda, Mamoru: *See*—
Asai, Koichi; Tsuda, Mamoru; and Kodama, Jiro. 4,649,635, Cl. 29-759.000.
Asai, Koichi; Tsuda, Mamoru; and Kodama, Jiro. 4,660,280, Cl. 29-759.000.

Tsuda, Masaaki, to Kabushiki Kaisha Takara. Binding apparatus for sealing bags or the like. 4,711,064, 12-8-87, Cl. 53-137.000.

Tsuda, Masanari: *See*—
Yoshimoto, Takeshi; Tsuda, Masanari; Masuda, Yoshikazu; and Yokoi, Masakatsu. 4,660,094, Cl. 358-285.000.

Tsuda, Masao; Sawa, Yoichi; and Yamazaki, Iwao, to Takeda Chemical Industries, Ltd. Treatment for osteoporosis. 4,644,012, 2-17-87, Cl. 514-456.000.

Tsuda, Nobuo: *See*—
Watanabe, Takashi; Tsuda, Nobuo; and Tomikawa, Inao. 4,701,613, Cl. 250-227.000.

Tsuda, Shin, to Canon Kabushiki Kaisha. Facsimile apparatus. 4,672,460, 6-9-87, Cl. 358-257.000.

Tsuda, Tadayuki; and Kurematsu, Katsumi, to Canon Kabushiki Kaisha. Cleaning device for an image forming apparatus. 4,702,591, 10-27-87, Cl. 355-15.000.

Tsuda, Takeshi: *See*—
Honda, Tadatoshi; and Tsuda, Takeshi. 4,668,283, Cl. 75-0.5A.A.

Tsuda, Tatsuya; and Nogi, Masako, to Sharp Kabushiki Kaisha. Heating appliance with uniform heating control. 4,692,597, 9-8-87, Cl. 219-492.000.

Tsuda, Toshitaka: *See*—
Fukuda, Misao; Tsuda, Toshitaka; Murano, Kazuo; and Awata, Yutaka. 4,679,188, Cl. 370-29.000.
Matsuda, Kiichi; Tsuda, Toshitaka; Homma, Toshihiro; Fukuda, Hiroshi; Okazaki, Takeshi; and Maki, Shin-ichi. 4,668,987, Cl. 358-136.000.
Yasutake, Nobuyuki; and Tsuda, Toshitaka. 4,651,033, Cl. 307-494.000.

Tsuda, Yoshiaki: *See*—
Nakamura, Shizuo; Inoue, Makoto; and Tsuda, Yoshiaki. 4,642,355, Cl. 548-533.000.

Tsuda, Yoshio: *See*—
Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; Inoue, Yoshihisa; Naito, Youichiro; and Suyama, Tadakazu. 4,654,337, Cl. 514-214.000.
Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; and Suyama, Tadakazu. 4,713,459, Cl. 546-150.000.

Tsuda, Yoshiyuki: *See*—
Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Aoyama, Shigeo; Tanno, Satoshi; and Kato, Kaoru. 4,691,767, Cl. 165-151.000.
Tanaka, Hiroyoshi; Adachi, Masaaki; Tsuda, Yoshiyuki; Ando, Toshiaki; Nishiwaki, Humitoshi; and Aoyama, Shigeo. 4,715,437, Cl. 165-151.000.

Tsuda, Yukio: *See*—
Owada, Fumio; and Tsuda, Yukio. 4,667,249, Cl. 358-282.000.

Tsudaka, Hideaki: *See*—
Morimoto, Kiyoshi; Kawamoto, Masuo; Kobayashi, Hiroshi; Hashizume, Masahiro; Tsudaka, Hideaki; and Kimura, Hiroshi. 4,692,019, Cl. 355-8.000.
Sasaki, Kouichi; Tsudaka, Hideaki; Namba, Satoshi; Abe, Yuji; and Yoshinaga, Shinsuke. 4,647,178, Cl. 355-3.00R.

Tsudakoma Corp.: *See*—
Saimen, Tsutomu. 4,712,588, Cl. 139-309.000.
Shin, Tokujirou. 4,664,157, Cl. 139-116.000.
Sugita, Katsuhiko. 4,702,285, Cl. 139-452.000.
Takegawa, Yujiro. 4,658,866, Cl. 139-450.000.
Tamatani, Yasuyuki. 4,688,606, Cl. 139-116.000.
Tsuji, Kanji; Tamatani, Yasuyuki; and Senco, Takashi. 4,646,791, Cl. 139-435.000.

Tsudakoma Kogyo Kabushiki Kaisha: *See*—
Miyamoto, Osamu; and Saimen, Tsutomu. 4,662,406, Cl. 139-1.00R.
Takekawa, Yujiro; and Matsuda, Fumio. 4,691,745, Cl. 139-435.000.
Yoshida, Toshio. 4,708,173, Cl. 139-370.200.

Tsuetaki, George F.; and Sato, Shiro, to Fused Kontacts of Chicago, Inc. Monocentric bifocal corneal contact lens. 4,693,572, 9-15-87, Cl. 351-161.000.

Tsuezuki, Yoshio: *See*—
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke. 4,650,736, Cl. 430-57.000.

Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,675,263, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,678,733, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,881, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,882, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,696,883, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,696,884, Cl. 430-58.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,392, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,701,393, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,730, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,731, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,732, Cl. 430-57.000.
Saitoh, Keishi; Kanai, Masahiro; Sueda, Tetsuo; Misumi, Teruo; Tsuezuki, Yoshio; and Ogawa, Kyosuke, 4,705,733, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,734, Cl. 430-57.000.
Saitoh, Keishi; Sueda, Tetsuo; Ogawa, Kyosuke; Misumi, Teruo; Tsuezuki, Yoshio; and Kanai, Masahiro, 4,705,735, Cl. 430-57.000.

Tsugaki, Shoichiro; Miyasaka, Tomoo; Nishiyama, Yukio; and Atsuta, Toshio, to Kawasaki Jukogyo Kabushiki Kaisha. Method of manufacturing a rock bit cone. 4,667,543, 5-26-87, Cl. 76-108.00A.

Tsugane, Shuzo: *See*—
Kuroda, Hideo; Mukawa, Naoki; Hiraoka, Makoto; Matsuda, Kiichi; Nishiwaki, Mitsuo; and Tsugane, Shuzo, 4,677,480, Cl. 358-136.000.

Tsugane, Syuzo; and Nishiwaki, Mitsuo, to NEC Corporation. System for coding video signal in block unit. 4,679,081, 7-7-87, Cl. 358-138.000.

Tsugaru, Kazunori; and Sugimoto, Yasuhiro, to Kabushiki Kaisha Toshiba. Level conversion circuit. 4,713,600, 12-15-87, Cl. 323-351.000.

Tsugawa, Hiroaki: *See*—
Nomura, Masaharu; Tsugawa, Hiroaki; Ishizaka, Yukio; and Hosoi, Hiroomi, 4,682,192, Cl. 503-200.000.

Tsugawa, Kazuo; and Wada, Susuma, to Akebono Brake Industry Co., Ltd.; and Akebono Research and Development Centre Ltd. Method of preventing the rust-forming and adherence between friction material and opposite friction member. 4,705,817, 11-10-87, Cl. 523-152.000.

Tsuge, Akihiko: *See*—
Inoue, Hiroshi; Tsuge, Akihiko; and Komeya, Katsutoshi, 4,680,278, Cl. 501-98.000.
Iwase, Nobuo; Anzai, Kazuo; Shinozaki, Kazuo; Tsuge, Akihiko; Saitoh, Kazutaka; Iyogi, Kiyoshi; Sato, Noboru; and Kasori, Mitsuo, 4,659,611, Cl. 428-209.000.
Takeda, Hiromitsu; Nakahashi, Masako; Shirokane, Makoto; Tsuge, Akihiko; and Suzuki, Takao, 4,685,607, Cl. 228-193.000.

Tsuge, Eiji; Yanagisawa, Taminori; Yamaguchi, Takaharu; and Fukatsu, Hiroshi, to Toyota Jidosha Kabushiki Kaisha; and Taiho Seiki Kabushiki Kaisha. Workpiece conveying apparatus. 4,634,338, 1-6-87, Cl. 414-752.000.

Tsuge, Hiroshi; Fujiwara, Akinori; and Yoshitsugu, Noritada, to Kabushiki Kaisha Tokai-Rika-Denki-Seisakusho; and Toyota Jidosha Kabushiki Kaisha. Child passenger securing apparatus. 4,685,741, 8-11-87, Cl. 297-467.000.

Tsuge, Hiroshi; Fujiwara, Akinori; Yoshitsugu, Noritada; and Sugiura, Motonobu, to Kabushiki Kaisha Tokai-rika-denki-seisakusho; and Toyota Jidosha Kabushiki Kaisha. Child passenger securing apparatus for use in vehicle. 4,688,849, 8-25-87, Cl. 297-250.000.

Tsuge, Itaru, Sachie Tsuge, heirs: *See*—
Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fujii, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased, 4,707,806, Cl. 365-96.000.

Tsuge, Kazunori; Tawada, Yoshihisa; and Hamakawa, Yoshihiro, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Amorphous silicon semiconductor and process for same. 4,670,762, 6-2-87, Cl. 357-2.000.

Tsuge, Kazunori: *See*—
Tawada, Yoshihisa; and Tsuge, Kazunori, 4,701,344, Cl. 427-39.000.

Tsuge, Noboru; Taguchi, Masahiro; Kuwakado, Satosi; and Kato, Kazutaka, to Nippon Soken, Inc. Method and apparatus for winding seat belt thereof. 4,666,097, 5-19-87, Cl. 242-55.000.

Tsuge, Norihisa, deceased: *See*—
Takemae, Yoshihiro; Nakano, Tomio; Tatematsu, Takeo; Ogawa, Junji; Horii, Takashi; Fujii, Yasuhiro; Nakano, Masao; and Tsuge, Norihisa, deceased, 4,707,806, Cl. 365-96.000.

Tsugei, Shinji; and Iguchi, Shigeki, to Sharp Kabushiki Kaisha. Handwritten character input device. 4,656,317, 4-7-87, Cl. 178-18.000.

Tsugei, Shinji; and Inoue, Tomohiro, to Sharp Kabushiki Kaisha. Pocketable wireless transmitter and receiver. 4,696,054, 9-22-87, Cl. 455-89.000.

Tsugei, Shinji: *See*—
Inoue, Tomohiro; Tsugei, Shinji; and Iguchi, Shigeki, 4,715,010, Cl. 364-705.000.

Tsugita, Kousaku, to Kabushiki Kaisha Toshiba. Temperature control device for a printing head. 4,664,542, 5-12-87, Cl. 400-124.000.

Tsugita, Yasuhiro: *See*—
Okajima, Yasuhiro; Tsugita, Yasuhiro; Takechi, Tamaki; and Okada, Syuji, 4,681,623, Cl. 75-0.50B.

Tsuhara, Susumu; Tabata, Kuniaki; and Okada, Yasuyuki, to Hitachi, Ltd. Multimedia display system. 4,692,757, 9-8-87, Cl. 340-721.000.

Tsuhara, Susumu: *See*—
Tabata, Kuniaki; and Tsuhara, Susumu, 4,716,404, Cl. 340-723.000.

Tsui, Cyrus; Chan, Andrew K. L.; Chan, Albert; Fitzpatrick, Mark E.; Ansari, Zahid; and Hughes, Harry, to Monolithic Memories, Inc. Output circuit for a programmable logic array. 4,684,830, 8-4-87, Cl. 307-465.000.

Tsui, Cyrus: *See*—
Bosnyak, Bob; Chan, Albert; Fitzpatrick, Mark; Gouldsberry, Gary; Tsui, Cyrus; and Chan, Andrew K., 4,670,708, Cl. 324-51.000.
Chan, Albert; Fitzpatrick, Mark; Goddard, Don; Bosnyak, Robert J.; and Tsui, Cyrus, 4,701,695, Cl. 324-510.000.
Chua, H. T.; Tsui, Cyrus; Chan, Albert; and Gouldsberry, Gary, 4,654,830, Cl. 365-200.000.
Geannopoulos, George; Tsui, Cyrus; Fitzpatrick, Mark; and Chan, Andy, 4,638,189, Cl. 307-465.000.
Gouldsberry, Gary; Chan, Albert; Tsui, Cyrus; and Fitzpatrick, Mark, 4,634,898, Cl. 307-456.000.

Tsui, Gary; and Heimbigner, Thomas, to CBC Industries, Inc. Multiposition eyebolt. 4,641,986, 2-10-87, Cl. 403-164.000.

Tsui, Gary; and Heimbigner, Thomas, to CBC Industries, Inc. Multiposition fixture. 4,705,422, 11-10-87, Cl. 403-60.000.

Tsui, Gary: *See*—
Heimbigner, Thomas; and Tsui, Gary, 4,708,540, Cl. 408-72.00B.

Tsui, James B. Y.; and Davis, Robert L., to United States of America, Air Force. Signal analysis receiver with acousto-optic delay lines. 4,644,267, 2-17-87, Cl. 324-77.00K.

Tsui, Yu-Ming; and Sheu, Shyh-Her. Self-cleaning rearview mirror. 4,699,478, 10-13-87, Cl. 350-583.000.

Tsuji, Akio, to Casio Computer Co., Ltd. Ultrasonic obstacle location apparatus and method. 4,636,996, 1-13-87, Cl. 367-93.000.

Tsuji, Akio, to Casio Computer Co., Ltd. Obstacle detection system. 4,658,385, 4-14-87, Cl. 367-105.000.

Tsuji, Eiji; Okabe, Hirobumi; Ike, Hideo; Uratani, Fumihiro; Ota, Takashi; Kaneda, Hiroshi; Hanatate, Yuko; Hamada, Tadashi; and Oonishi, Hironobu, to Osaka Prefecture, Horonobu Oonishi and Kyocera Corporation. Fe-Cr-Al type implant alloy composite for medical treatment. 4,668,585, 5-26-87, Cl. 428-469.000.

Tsuji, Eiji, Igawa, Norio; Tabuchi, Hiroshi; and Horike, Tomoji, to Takenaka Komuten Co.; and Starlanes Corp. Apparatus for fruit fly disinfestation using hot humid air in order to prevent the spread of infestation in fruits and vegetables. 4,676,152, 6-30-87, Cl. 99-468.000.

Tsuji, Eiji: *See*—
Abura, Yoshinori; Tsuji, Eiji; Okuyama, Kenji; and Ochi, Shuhei, 4,641,010, Cl. 219-222.000.

Tsuji, Hiroshi: *See*—
Orihashi, Tadaaki; Tsuji, Hiroshi; Ogawa, Kazuhiko; Hayashitani, Masao; Terada, Seiji; Miyagawa, Tsugio; and Isozaki, Hideo, 4,673,486, Cl. 208-86.000.

Tsuji, Jiro; and Takahashi, Takashi, to UBE Industries, Ltd. Novel 10-membered ring compound and process for preparing the same. 4,701,536, 10-20-87, Cl. 549-215.000.

Tsuji, Kanji; Tamatani, Yasuyuki; and Senoo, Takashi, to Tsudakoma Corporation. Method and apparatus for inserting weft threads in multiple-color air jet looms. 4,646,791, 3-3-87, Cl. 139-435.000.

Tsuji, Katsuya; Tanimoto, Masahiro; Hirano, Akihiro; and Yamada, Takeshi, to Horiba, Ltd. Gas analyzer for simultaneously measuring many ingredients. 4,705,669, 11-10-87, Cl. 422-93.000.

Tsuji, Kazuaki: *See*—
Roppongi, Makoto; and Tsuji, Kazuaki, 4,649,409, Cl. 357-30.000.

Tsuji, Kazuhiko; and Tsutsui, Youji, to Kubota, Ltd. Valve control structure for working vehicle. 4,646,778, 3-3-87, Cl. 137-270.000.

Tsuji, Kazuhiko; Yamaguchi, Seiji; and Ichimohe, Eisuke, to Matsushita Electric Industrial Co., Ltd. CMOS integrated circuit. 4,672,584, 6-9-87, Cl. 365-226.000.

Tsuji, Kenji: *See*—
Hosomizu, Hiroshi; Tsuji, Kenji; and Kamiya, Makoto, 4,712,602, Cl. 354-416.000.

Tsuji, Kinya: *See*—
Osugi, Minoru; Takagawa, Makoto; Nakamura, Tadasi; Kojima, Takashi; and Tsuji, Kinya, 4,666,945, Cl. 518-713.000.

Tsuji, Kiyoshi: *See*—
Digenis, George A.; Agha, Bushra J.; and Tsuji, Kiyoshi, 4,643,991, Cl. 514-18.000.
Takaya, Takao; Takasugi, Hisashi; Tsuji, Kiyoshi; and Chiba, Toshiyuki, 4,698,337, Cl. 514-206.000.

uji, Kunio: *See*—
Sasada, Tetsuo; Sato, Takeshi; Urushidani, Haruo; Hisano, Katsukuni; Kaneko, Ryoichi; Ikeuchi, Kazuo; and Tsuji, Kunio, 4,652,820, Cl. 415-170.00R.

uji, Masahiro: *See*—
Kamio, Morinori; Tsuji, Masahiro; and Miyashita, Hirohito, 4,666,667, Cl. 420-471.000.
Takahashi, Toshihiro; Sueda, Noriyoshi; Tsuji, Masahiro; Tahara, Yoshiyuki; Koyama, Hiroyasu; Suzuki, Yoshikuni; Nagase, Masao; and Sugai, Toshiji, 4,659,833, Cl. 546-142.000.

uji, Masanori: *See*—
Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,686,852, Cl. 73-61.00R.
Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,715,719, Cl. 366-2.000.

uji, Naoki: *See*—
Tanaka, Kentaro; Kondo, Eiji; Matsumoto, Kouichi; and Tsuji, Naoki, 4,647,408, Cl. 540-350.000.

uji, Nobuo: *See*—
Fujiyama, Masaaki; Tsuji, Nobuo; and Yamaguchi, Nobutaka, 4,668,568, Cl. 428-323.000.
Okita, Tsutomu; Naruo, Kyoichi; Tsuji, Nobuo; Nakagawa, Teruo; Murase, Kiyoshi; and Ogasawara, Takahisa, 4,657,817, Cl. 428-425.900.
Okita, Tsutomu; Tsuji, Nobuo; and Mukaida, Yoshito, 4,672,002, Cl. 428-425.900.
Okita, Tsutomu; Tsuji, Nobuo; Hashimoto, Hiroshi; and Mukaida, Yoshito, 4,690,870, Cl. 428-425.900.
Okita, Tsutomu; Tsuji, Nobuo; and Mukaida, Yoshito, 4,699,844, Cl. 428-425.900.

uji, Nobuyuki: *See*—
Fushida, Akira; Matsui, Toshikazu; Hasegawa, Yuuji; Maeda, Masahiko; Tsuji, Nobuyuki; Horiuchi, Akira; and Yukitake, Kazunori, 4,652,510, Cl. 430-122.000.
Matsui, Toshikazu; Fushida, Akira; Honda, Nobuyasu; Nakao, Minoru; and Tsuji, Nobuyuki, 4,686,935, Cl. 118-658.000.

uji, Sadahiko; and Takahashi, Sadatoshi, to Canon Kabushiki Kaisha. Zoom lens using elements made of plastic materials. 4,659,187, 4-21-87, Cl. 350-427.000.

uji, Sadahiko, to Canon Kabushiki Kaisha. Compact finder. 4,673,262, 6-16-87, Cl. 350-538.000.

uji, Sadahiko; Takahashi, Sadatoshi; and Fujibayashi, Kazuo, to Canon Kabushiki Kaisha. Zoom lens having a large zoom ratio. 4,696,553, 9-29-87, Cl. 350-427.000.

uji, Sadahiko, to Canon Kabushiki Kaisha. Photographic objective. 4,708,444, 11-24-87, Cl. 350-427.000.

uji, Sadahiko: *See*—
Kato, Masatake; Tsuji, Sadahiko; and Asano, Toshiaki, 4,712,883, Cl. 350-427.000.
Takahashi, Sadatoshi; Asano, Toshiaki; Tsuji, Sadahiko; Fujibayashi, Kazuo; and Kato, Masatake, 4,653,874, Cl. 350-427.000.
Takahashi, Sadatoshi; Kato, Masatake; and Tsuji, Sadahiko, 4,687,303, Cl. 350-427.000.

uji, Seiichi; Ogawara, Kazuhiro; Koide, Shikuo; and Mizobuchi, Shotaro, to Ebara Corporation. Combination of slide members. 4,664,595, 5-12-87, Cl. 415-170.00R.

uji, Seiichi: *See*—
Sakamoto, Toshinori; Hirashima, Isao; and Tsuji, Seiichi, 4,690,432, Cl. 280-775.000.

uji, Shinji: *See*—
Chinone, Naoki; Tsuji, Shinji; Fujisaki, Yoshihisa; Kashiwada, Yasutoshi; and Hirao, Motohisa, 4,665,528, Cl. 372-96.000.

uji, Shinjiro, to Washu Kirai Kogyo Kabushiki Kaisha. Method of film-coating hard capsules. 4,670,287, 6-2-87, Cl. 427-3.000.

uji, Shintaro; and Umeda, Yasukazu, to Mitsubishi Denki Kabushiki Kaisha. Operating apparatus for elevator. 4,662,479, 5-5-87, Cl. 187-131.000.

uji, Shintaro; and Umeda, Yasukazu, to Mitsubishi Denki Kabushiki Kaisha. Operating system for elevator. 4,685,539, 8-11-87, Cl. 187-126.000.

uji, Shintaro: *See*—
Umeda, Yasukazu; and Tsuji, Shintaro, 4,682,673, Cl. 187-126.000.

uji, Shoichi: *See*—
Ito, Keiko; Ito, Michiyasu; Tsuji, Shoichi; and Suzuki, Hisatosi, 4,705,812, Cl. 521-92.000.
Ito, Keiko; Ito, Michiyasu; Tsuji, Shoichi; Suzuki, Hisatosi; and Ito, Shoichi, 4,705,813, Cl. 521-92.000.

uji, Syoichi: *See*—
Matsumura, Shuji; Ito, Michiyasu; Tsuji, Syoichi; Suzuki, Hisatosi; and Ito, Syoichi, 4,699,733, Cl. 282-521.000.

uji, Takahisa: *See*—
Kawasaki, Kazuhisa; Ujino, Yoshiyuki; Tsuji, Takahisa; and Saeki, Tsuneo, 4,656,763, Cl. 38-77.830.

uji, Takashi; Kobayashi, Shozo; and Nagase, Toshio, to Nippon Zeon Co., Ltd. Method for providing a bubbleless connection between filling tubes for blood or the like and a container used for said connection. 4,636,196, 1-13-87, Cl. 604-122.000.

uji, Tomoji: *See*—
Isogai, Nobuo; Okawa, Takashi; Hosokawa, Motoyuki; Tsuji, Tomoji; and Wakui, Natsuko, 4,678,858, Cl. 568-902.000.

uji, Toshiaki: *See*—
Yokoe, Jintaro; Takeuchi, Masami; and Tsuji, Toshiaki, 4,713,090, Cl. 55-68.000.

Tsuji, Tsuyoshi; and Nagahori, Naosumi. Finger peristaltic infusion pump. 4,653,987, 3-31-87, Cl. 417-360.000.

Tsuji, Yoshiomi; and Naitoh, Hajime, to Sumitomo Electric Industries, Ltd. Rising and falling weir of flexible membrane. 4,661,015, 4-28-87, Cl. 405-115.000.

Tsuji, Yoshiomi; Maruyama, Ichiro; and Takuma, Hiroshi, to Sumitomo Electric Industries, Ltd. Erecting/lying-down dam or sluice gate made of flexible sheet. 4,696,598, 9-29-87, Cl. 405-115.000.

Tsuji, Yoshitake; and Asai, Ko, to NEC Corporation. Sectioning apparatus and method for optical character reader systems. 4,635,290, 1-6-87, Cl. 382-9.000.

Tsuji, Yoshitsugu: *See*—
Matsunaga, Katsumi; and Tsuji, Yoshitsugu, 4,646,052, Cl. 337-166.000.

Tsuji, Yukikazu: *See*—
Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,686,852, Cl. 73-61.00R.
Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,715,719, Cl. 366-2.000.

Tsujibayashi, Tatsuo: *See*—
Shibata, Masahiro; Tsujibayashi, Tatsuo; Sato, Hiroyuki; and Machida, Yoshinori, 4,682,245, Cl. 358-311.000.

Tsujihara, Sotohiro, to Ricoh Company, Ltd. Sheet reversing in copying machine and other sheet-handling machines. 4,692,020, 9-8-87, Cl. 355-14.0SH.

Tsujii, Fumio; Matsuoka, Yoji; Endo, Akira; Takezaki, Jiro; and Shirai, Hiroshi, to Hitachi, Ltd. Navigation apparatus for automobile. 4,635,202, 1-6-87, Cl. 364-449.000.

Tsujii, Fumio; Matsuoka, Yoji; Shibata, Takanori; Endo, Akira; and Shirai, Hiroshi, to Hitachi, Ltd. Navigation system with capability of instructing running direction. 4,679,147, 7-7-87, Cl. 364-449.000.

Tsujii, Fumio: *See*—
Endo, Akira; Takezaki, Jiro; Tsujii, Fumio; and Shibata, Takanori, 4,638,438, Cl. 364-449.000.

Tsujii, Kanji; Yajima, Yusuke; and Murayama, Seiichi, to Hitachi, Ltd. Method of dry etching. 4,643,799, 2-17-87, Cl. 156-635.000.

Tsujii, Kanji: *See*—
Murayama, Seiichi; Tsujii, Kanji; and Yajima, Yusuke, 4,678,536, Cl. 156-635.000.
Yajima, Yusuke; Murayama, Seiichi; and Tsujii, Kanji, 4,653,908, Cl. 356-51.000.

Tsujii, Kaoru; and Yoshimatsu, Akira, to Kao Corporation. Rod-shaped polymer latex, rod-shaped polymer fine powder and dispersion comprising the fine powder dispersed in non-aqueous medium. 4,634,725, 1-6-87, Cl. 523-221.000.

Tsujii, Kaoru: *See*—
Hara, Kenji; Takahashi, Hiromichi; Kamiya, Tetsuro; and Tsujii, Kaoru, 4,686,211, Cl. 514-148.000.

Tsujikawa, Kenzo: *See*—
Yoshino, Yoshio; Tsuchihashi, Koji; Omae, Yoshihiro; Tsujikawa, Kenzo; Takaoka, Takashi; and Yamaguchi, Yukio, 4,655,878, Cl. 201-1.000.

Tsujimoto, Jun-ichi, to Kabushiki Kaisha Toshiba. Semiconductor memory device with a bit error detecting function. 4,679,196, 7-7-87, Cl. 371-51.000.

Tsujimoto, Jun-ichi: *See*—
Miyamoto, Junichi; and Tsujimoto, Jun-ichi, 4,680,735, Cl. 365-210.000.
Miyamoto, Junichi; and Tsujimoto, Jun-ichi, 4,694,427, Cl. 365-185.000.

Tsujimoto, Keizo; Katagiri, Takashi; Ichihashi, Eiji; and Otsubo, Hitoshi, to Nippon Ester Co., Ltd. Denier-mixed composite yarn, denier-mixed special thick and thin yarn, false twist yarn and denier-mixed shrinkage-mixed composite yarn. 4,712,366, 12-15-87, Cl. 57-245.000.

Tsujimoto, Yoshiharu; Kinashi, Hiroshi; Yui, Yuhi; Akiyama, Tadashi; and Irihara, Koichi, to Sharp Kabushiki Kaisha. Method of removing a charge from an electrophotographic photoreceptor. 4,654,286, 3-31-87, Cl. 430-97.000.

Tsujimura, Akio: *See*—
Ochiai, Toshio; Tsujimura, Akio; and Tsukiyasu, Hiroshi, 4,710,091, Cl. 414-623.000.

Tsujimura, Masakuni: *See*—
Sasakura, Hachirou; and Tsujimura, Masakuni, 4,690,122, Cl. 123-609.000.

Tsujimura, Osamu; Hasegawa, Ryoei; and Ohkawa, Masayuki, to Mitsubishi Kinzoku Kabushiki Kaisha. Indexable cutter insert. 4,679,968, 7-14-87, Cl. 407-114.000.

Tsujimura, Osamu; Saito, Takayoshi; and Arai, Tatsuo, to Mitsubishi Kinzoku Kabushiki Kaisha. End mill with throw-away tip. 4,693,641, 9-15-87, Cl. 407-42.000.

Tsujimura, Takehisa: *See*—
Akasaki, Hidehiko; and Tsujimura, Takehisa, 4,682,207, Cl. 357-74.000.

Tsujinaka, Hisayuki: *See*—
Hohki, Tetsuo; Sano, Tetsuo; Kodama, Eiji; and Tsujinaka, Hisayuki, 4,682,040, Cl. 250-571.000.

Tsujioka, Shigeo: *See*—
Sakaibara, Toru; Tsujioka, Shigeo; Kajiura, Toshinori; Aoshima, Toshihisa; and Tonomura, Motonobu, 4,709,231, Cl. 340-729.000.
Tsunehiro, Takashi; and Tsujioka, Shigeo, 4,642,625, Cl. 340-747.000.

Tsujita, Yoshio: See—
Yanagisawa, Hiroshi; Ishihara, Sadao; Ando, Akiko; Kanazaki, Takumi; Koike, Hiroyuki; and Tsujita, Yoshio, 4,699,905, Cl. 514-211.000.
Tsujita, Yuji: See—
Nagai, Makoto; Horiuchi, Isamu; Harada, Masamichi; Kuroda, Shigeaki; Hayashi, Masakatsu; Ohishi, Yasuro; Mori, Yutaka; Maeda, Eiji; Kasakabe, Kimito; Tsujita, Yuji; Ezou, Hirofumi; Kikuchi, Katsuaki; and Itagaki, Masato, 4,647,271, Cl. 416-186.000R.
Tsujiuchi, Junpei: See—
Honda, Toshio; and Tsujiuchi, Junpei, 4,657,396, Cl. 356-394.000.
Tsujiuchi, Toshio; and Nomo, Yasuo, to Toyoda Koki Kabushiki Kaisha: Position detection device for movable head, 4,700,461, 10-20-87, Cl. 33-125.000R.
Tsujiuchi, Toshio; Shimmura, Yoshimori; and Oda, Yukio, to Toyoda Koki Kabushiki Kaisha: Grinding machine with a steady rest, 4,711,054, 12-8-87, Cl. 51-165.770.
Tsujiuchi, Toshio: See—
Okada, Hiroshi; Tsujiuchi, Toshio; and Ogasawara, Tadashi, 4,706,415, Cl. 51-165.000R.
Tsujiuchi, Yoshio: See—
Suzuki, Masaru; Tsujiuchi, Yoshio; Ogawa, Akira; and Usami, Tadashi, 4,660,944, Cl. 350-635.000.
Tsuka, Masaharu: See—
Fujii, Akihiko; and Tsuka, Masaharu, 4,689,552, Cl. 324-546.000.
Tsukada, Akira: See—
Suzuki, Toshiyuki; Tsukada, Akira; and Kai, Masamoto, 4,675,179, Cl. 424-67.000.
Tsukada, Hirokazu: See—
Ueda, Jun; Tsukada, Hirokazu; and Nanba, Yoichi, 4,649,414, Cl. 357-53.000.
Tsukada, Jiro; Hosogoe, Junichi; and Ida, Yuichi, to Alps Electric Co., Ltd. X-Y position input device for display system, 4,652,871, 3-24-87, Cl. 340-710.000.
Tsukada, Kazuya: See—
Saito, Susumu; Suzuki, Michio; Suda, Kyo; Yanagake, Yasuo; and Tsukada, Kazuya, 4,665,802, Cl. 356-339.000.
Tsukada, Keizo; and Yamagata, Masato: Cordless telephone, 4,640,997, 2-3-87, Cl. 379-62.000.
Tsukada, Keizo; and Yamagata, Masato, to Sony Corporation: Cordless telephone, 4,650,931, 3-17-87, Cl. 379-61.000.
Tsukada, Keizo: See—
Yamagawa, Masato; and Tsukada, Keizo, 4,639,550, Cl. 379-62.000.
Tsukada, Mineharu: See—
Imanaka, Yoshihiko; Ogawa, Hiromi; Tsukada, Mineharu; Udagawa, Etsuro; Kurihara, Kazuaki; Yokoyama, Hiromitsu; and Kamehara, Nobuo, 4,679,320, Cl. 29.448.000.
Tsukada, Nobuo: See—
Matsuura, Eiichi; and Tsukada, Nobuo, 4,645,356, Cl. 368.160.000.
Tsukada, Osamu: See—
Ikimi, Yoshihiro; and Tsukada, Osamu, 4,706,781, Cl. 187-9.01R.
Tsukada, Satoshi; and Taguchi, Kazuhisa, to Mitsubishi Paper Mills, Ltd: Corona discharge apparatus and method for corona discharge treatment, 4,649,097, 3-10-87, Cl. 430-270.000.
Tsukada, Shuichi: See—
Kabe, Kazuyuki; Morikawa, Tamio; and Tsukada, Shuichi, 4,657,058, Cl. 152-556.000.
Tsukada, Tetsuo; Shimobuchi, Hideyuki; and Yoshikawa, Takaharu, to Fujitsu Limited: Color printer having apparatus for shifting ink ribbon, 4,695,175, 9-22-87, Cl. 400-196.100.
Tsukada, Toshihisa: See—
Ueyanagi, Kiichi; Takahashi, Susumu; Usugawa, Toshiyuki; Umemoto, Yasunari; and Tsukada, Toshihisa, 4,683,487, Cl. 357-14.000.
Tsukada, Tsutomu; Ashashi, Ichiro; Koizumi, Tatsunori; and Ikeda, Kouji, to Anelva Corporation: Waste gas exhaust system for vacuum process apparatus, 4,655,800, 4-7-87, Cl. 55-195.000.
Tsukada, Yuji: See—
Sugimori, Tsunetake; Tsukada, Yuji; Uchida, Yoshihiro; and Ohta, Yasuhiro, 4,699,883, Cl. 435-232.000.
Tsukagawa, Masahide: See—
Ueda, Kenji; Matsumoto, Nobuyoshi; and Tsukagawa, Masahide, 4,707,198, Cl. 106-93.000.
Tsukagoshi, Tetsuhito; Matsunuma, Tamotsu; and Makino, Shigeo, to Bridgestone Corporation: Pneumatic radial tire, 4,696,335, 9-29-87, Cl. 152-535.000.
Tsukagoshi, Tsuyoshi, to Olympus Optical Co., Ltd: High-frequency incision device, 4,708,137, 11-24-87, Cl. 128-303.150.
Tsukahara, Hirokazu: See—
Kosaka, Takao; Okumura, Fumio; and Tsukahara, Hirokazu, 4,711,749, Cl. 264-4.700.
Tsukahara, Hiroyuki: See—
Koezuka, Tetsuo; Hiraoka, Noriyuki; Tsukahara, Hiroyuki; and Nakashima, Masato, 4,672,678, Cl. 382-30.000.
Nakashima, Masato; Koezuka, Tetsuo; Tsukahara, Hiroyuki; and Itagaki, Takefumi, 4,651,341, Cl. 382-34.000.
Tsukahara, Kenji; Matsui, Kazuma; Abe, Taizoh; and Suzuki, Masahiko, to Nippondenso Co., Ltd: Rotary pump having clutch which selects suitable power source, 4,697,991, 10-6-87, Cl. 417-219.000.
Tsukahara, Kenji; and Abe, Taizou, to Nippondenso Co., Ltd: Fuel injection system, 4,699,103, 10-13-87, Cl. 123-304.000.
Tsukahara, Kenji; and Abe, Taizou, to Nippondenso Co., Ltd: Control apparatus for a variable displacement pump, 4,711,616, 12-8-87, Cl. 417-215.000.
Tsukahara, Kenji: See—
Abe, Taizou; and Tsukahara, Kenji, 4,634,349, Cl. 417-219.000.
Tsukahara, Nobuhiko, to Sony Corporation: Disk drive apparatus with automatic centering arrangement, 4,697,216, 9-29-87, Cl. 360-97.000.
Tsukahara, Toshiyuki: See—
Mizuko, Tsutomu; Tsukahara, Toshiyuki; Yoshida, Masahiro; and Nemoto, Koji, 4,675,706, Cl. 361-395.000.
Tsukai, Yoshiyuki, to Pioneer Electronic Corporation: Optically recorded data reading apparatus with inclination controller, 4,630,253, 12-16-86, Cl. 250-201.000.
Tsukakoshi, Kunio: See—
Aoyagi, Yoshiki; Suzuki, Masatoshi; Inoue, Takashi; and Tsukakoshi, Kunio, 4,680,227, Cl. 428-131.000.
Tsukamoto, Goro: See—
Obtaka, Hiroshi; Katazawa, Toshiro; Ito, Keizo; and Tsukamoto, Goro, 4,663,325, Cl. 514-253.000.
Obtaka, Hiroshi; Katazawa, Toshiro; Ito, Keizo; and Tsukamoto, Goro, 4,703,048, Cl. 514-253.000.
Satoh, Toshio; and Tsukamoto, Goro, 4,683,895, Cl. 514-53.000.
Uno, Toshio; Taguchi, Masahiro; Okuno, Toshio; Kato, Hiroyuki; Setomura, Mikio; and Tsukamoto, Goro, 4,686,224, Cl. 514-254.000.
Yoshino, Koichiro; Seko, Norihiko; Yokota, Koichi; Ito, Keizo; and Tsukamoto, Goro, 4,659,726, Cl. 514-365.000.
Tsukamoto, Hidehara: See—
Nagaoka, Kazuo; Isobe, Tomoichi; Kawasaki, Toshihiko; Suzuki, Nobuyuki; Wakabayashi, Sadao; Uchida, Keiji; Tokumoto, Hidehara; Ohno, Mitsuru; and Shimano, Tadahiko, 4,685,640, Cl. 33-125.000R.
Tsukamoto, Hidehiko; Kohmoto, Eiji; Yasui, Koichi; deceased (by Ayada, Kumiko, legal representative); Yamasaki, Masakazu; Morimoto, Kenichi; Nakaemoto, Eiji; Wakamiya, Yoshinori; and Kuramoto, Satoru, to Mitsubishi Jukogyo Kabushiki Kaisha and Mitsubishi Denki Kabushiki Kaisha: Method of controlling an edging opening in a rolling mill, 4,672,830, 6-16-87, Cl. 72-9.000.
Tsukamoto, Hideo: See—
Hagiwara, Haruo; Tsukamoto, Hideo; and Tsubaki, Yasuhiro, 4,712,392, Cl. 68-18.000C.
Tsukamoto, Jun: See—
Matsumura, Kiichiro; Tezuhashi, Akio; and Tsukamoto, Jun, 4,666,736, Cl. 427-52.000.
Matsumura, Kiichiro; Takahashi, Akio; and Tsukamoto, Jun, 4,673,720, Cl. 526-285.000.
Tsukamoto, Katsuhiro: See—
Okamoto, Tatsuo; Shimizu, Masahiro; and Tsukamoto, Katsuhiro, 4,707,723, Cl. 357-67.000.
Shimano, Hiroki; Shimizu, Masahiro; Tsukamoto, Katsuhiro; and Inuishi, Masahide, 4,702,797, Cl. 156-653.000.
Shimizu, Masahiro; Okamoto, Tatsuo; and Tsukamoto, Katsuhiro, 4,708,904, Cl. 428-209.000.
Tsukamoto, Kazumasa; Hayabuchi, Masahiro; Maeda, Koji; Watabe, Kazuaki; and Taga, Yutaka, to Aisin Warner Kabushiki Kaisha and Toyota Jidosha Kabushiki Kaisha: Direct coupling clutch with integral damper device for a fluid coupling, 4,693,348, 9-15-87, Cl. 192-3.290.
Tsukamoto, Kazuyoshi: See—
Yamada, Makoto; and Tsukamoto, Kazuyoshi, 4,670,702, Cl. 320-21.000.
Tsukamoto, Keisuke: See—
Matsuno, Kiyotaka; Nagase, Masaomi; and Tsukamoto, Keisuke, 4,643,154, Cl. 123-501.000.
Tsukamoto, Kouji: See—
Harada, Masasuke; Tsukamoto, Kouji; and Etou, Tomihiro, 4,661,547, Cl. 524-156.000.
Tsukamoto, Kyoto; Ichimori, Yuzo; and Wakimura, Mitsuhiro, to Takeda Chemical Industries, Ltd: Novel peptide and use thereof, 4,681,848, 7-21-87, Cl. 435-240.000.
Tsukamoto, Masa: Power-operated, extendible and retractible cover for truck beds, 4,673,208, 6-16-87, Cl. 296-98.000.
Tsukamoto, Masahide: See—
Yoshikawa, Yoshitaka; Tsukamoto, Masahide; Nohmura, Yuko; Ono, Hitoshi; and Sano, Tetsuhiro, 4,675,054, Cl. 346-76.000.
Tsukamoto, Masaharu, to NSK-Warner K. K.: Tension locking mechanism of a retractor, 4,651,947, 3-24-87, Cl. 242-107.700.
Tsukamoto, Tetsuke; Morohoshi, Shinichi; Iida, Tetsuo; Kohzawa, Yuji; Kato, Shoichi; Suzuki, Toshio; and Ebihara, Toshio, to Honda Giken Kogyo Kabushiki Kaisha: Engine-operated machine, 4,698,975, 10-13-87, Cl. 60-721.000.
Tsukamoto, Yoshinori: See—
Yamada, Mikio; Tsukamoto, Yoshinori; and Mizuno, Masahiro, 4,654,215, Cl. 426-17.000.
Yamada, Mikio; Mizuno, Masahiro; Tsukamoto, Yoshinori; and Yamada, Koki, 4,656,140, Cl. 436-131.000.
Yamada, Mikio; Tsukamoto, Yoshinori; and Mizuno, Masahiro, 4,692,414, Cl. 435-291.000.
Tsukamura, Kazuo: See—
Naito, Kenzo; Kato, Masayasu; and Tsukamura, Kazuo, 4,642,367, Cl. 558-83.000.
Naito, Kenzo; Tsukamura, Kazuo; and Aoyagi, Sukae, 4,692,519, Cl. 540-227.000.
Tsukamura, Takao, to Nittetsu Steel Drum Co., Ltd: Metal container with seam holding end closure thereon, 4,705,184, 11-10-87, Cl. 220-67.000.
Tsukamura, Yoshihiro; Morimoto, Toshiro; Kubo, Masayasu; and Mukai, Masataka, to Sony Corporation: Optical disk player having

reduced laser output during track changes. 4,660,189, 4-21-87, Cl. 369-32.000.

Tsukamura, Yoshihiro: *See*—
Aoki, Yoshio; and Tsukamura, Yoshihiro, 4,639,907, Cl. 369-45.000.

Tsukasa, Hirayama: *See*—
Yukihisa, Takeuchi; Yasunao, Miura; and Tsukasa, Hirayama, 4,658,832, Cl. 60-303.000.

Tsukasaki, Hidaka: *See*—
Kobayashi, Kiyotaka; Tsukasaki, Hidaka; and Baba, Takaaki, 4,715,340, Cl. 123-571.000.

Tsukasaki, Masatoshi: Apparatus for feeding cardboards to the carton making section. 4,666,142, 5-19-87, Cl. 271-139.000.

Tsukase, Masaaki: Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; and Kato, Masatoshi, to Fuji Photo Film Co., Ltd. Image forming process. 4,695,525, 9-22-87, Cl. 430-151.000.

Tsukase, Masaaki: *See*—
Kitaguchi, Hiroshi; Kato, Masatoshi; Sato, Kozo; Takeuchi, Masasi; and Tsukase, Masaaki, 4,678,735, Cl. 430-203.000.
Kitaguchi, Hiroshi; Takeuchi, Masashi; Sato, Kozo; Tsukase, Masaaki; and Kato, Masatoshi, 4,678,739, Cl. 430-353.000.
Sato, Kozo; Kitaguchi, Hiroshi; Takeuchi, Masashi; Tsukase, Masaaki; and Kato, Masatoshi, 4,696,887, Cl. 430-203.000.

Tsukaya, Takashi: *See*—
Sato, Ken; Takahashi, Yutaka; Tsukaya, Takashi; Esto, Shinichi; and Haneda, Shinichiro, 4,646,724, Cl. 128-6.000.

Tsukidate, Takaaki: *See*—
Kasai, Keyoshi; Tsukidate, Takaaki; and Arakawa, Toshihiko, 4,716,028, Cl. 423-344.000.
Matsumoto, Yoshiharu; Kubota, Yoshitaka; Tsukuma, Koji; and Tsukidate, Takaaki, 4,666,467, Cl. 51-309.000.
Tsukuma, Koji; and Tsukidate, Takaaki, 4,690,910, Cl. 501-103.000.

Tsuki, Yoshikazu: *See*—
Tajima, Yasuki; and Tsuki, Toshikazu, 4,684,965, Cl. 357-22.000.

Tsukii, Megumi, to Yuugengaisha Asahi Shinji: Gas gun with radially enlargeable O-ring. 4,674,470, 6-23-87, Cl. 124-74.000.

Tsukiji, Norio: *See*—
Furukawa, Hozaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
Furukawa, Hozaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,674,443, Cl. 118-713.000.
Furukawa, Hozaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,676,999, Cl. 427-250.000.
Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Hozaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.
Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Hozaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; and Wada, Tetsuyoshi, 4,643,131, Cl. 118-718.000.

Tsukiji, Yoshihiro; and Maeda, Haruo, to Kabushiki Kaisha Komatsu Seisakusho: Method of operating a numerically controlled machine tool having a worktable capable of rotation about two intersecting axes. 4,664,570, 5-12-87, Cl. 409-84.000.

Tsukimoto, Takayuki: *See*—
Hiramatsu, Akira; Makitsjima, Hitoshi; Kaneda, Naoya; Okuno, Takuo; Seki, Hiroyuki; Tsukimoto, Takayuki; Izukawa, Kazuhiro; and Okumura, Ichiro, 4,692,651, Cl. 310-323.000.
Izukawa, Kazuhiro; Tsukimoto, Takayuki; and Okumura, Ichiro, 4,678,956, Cl. 310-323.000.
Okumura, Ichiro; Tsukimoto, Takayuki; Okuno, Takuo; Izukawa, Kazuhiro; Seki, Hiroyuki; Mukohjima, Hitoshi; Kaneda, Naoya; and Hiramatsu, Akira, 4,692,650, Cl. 310-323.000.

Tsukioka, Takashi, to Tokyo Juki Industrial Co., Ltd. Sewing machine presser foot mechanism. 4,699,072, 10-13-87, Cl. 112-235.000.

Tsukioka, Takashi, to Tokyo Juki Industrial Co., Ltd. Needle thread guiding apparatus. 4,706,589, 11-17-87, Cl. 112-302.000.

Tsukishima Kikai Co., Ltd.: *See*—
Kasai, Tatsushi; Nitkura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,689,146, Cl. 210-197.000.
Kasai, Tatsushi; Nitkura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,710,215, Cl. 62-532.000.

Tsukioka, Kenji; and Sasaki, Yasushi, to Asahi Engineering Co., Ltd. Water containing explosive cartridge and preparation thereof. 4,658,948, 4-14-87, Cl. 102-452.000.

Tsukiyama, Noriyuki: *See*—
Hirano, Atushi; Saka, Kazuhiko; and Tsukiyama, Noriyuki, 4,654,872, Cl. 382-1.000.
Mikami, Kazuo; Nishimura, Masahiro; Tsukiyama, Noriyuki; and Hinata, Setsuko, 4,653,014, Cl. 364-526.000.

Tsukiyama, Tokuhiro: *See*—
Kakuse, Katsuharu; and Tsukiyama, Tokuhiro, 4,663,752, Cl. 369-48.000.

Tsukiyama, Yasumitsu; Kito, Yoshikazu; and Tatematsu, Susumu, to Hoshizaki Electric Co., Ltd. Ice storage detector for an auger type ice product making device. 4,662,182, 5-5-87, Cl. 62-137.000.

Tsukiyama, Yasumitsu: *See*—
Hida, Junichi; Tsukiyama, Yasumitsu; Kito, Yoshikazu; and Tatematsu, Susumu, 4,644,757, Cl. 62-188.000.

Tsukiyasu, Hiroshi: *See*—
Ochiai, Toshio; Tsujimura, Akio; and Tsukiyasu, Hiroshi, 4,710,091, Cl. 414-623.000.

Tsukuda, Ichizo: *See*—
Higashi, Kenji; Ohnishi, Tadakazu; and Tsukuda, Ichizo, 4,713,216, Cl. 420-532.000.

Tsukuda, Yasuo; Hara, Hisao; Harada, Hideki; and Iizuka, Yasuo, to Hitachi Metals, Ltd. Exhaust port assembly. 4,715,178, 12-29-87, Cl. 60-272.000.

Tsukui, Kunitsugu: *See*—
Moribe, Yoshihiro; Hayashi, Yukitaka; Morikawa, Hideo; and Tsukui, Kunitsugu, 4,639,804, Cl. 360-105.000.
Suzuki, Tadashi; Koizumi, Hideo; Takeyama, Jun; and Tsukui, Kunitsugu, 4,671,696, Cl. 403-265.000.

Tsukuma, Koji; and Tsukidate, Takaaki, to Toyo Soda Manufacturing Co., Ltd. Sintered product of zirconia and method of producing the same. 4,690,910, 9-1-87, Cl. 501-103.000.

Tsukuma, Koji: *See*—
Matsumoto, Yoshiharu; Kubota, Yoshitaka; Tsukuma, Koji; and Tsukidate, Takaaki, 4,666,467, Cl. 51-309.000.

Tsumaki, Koji: *See*—
Izumi, Shigeru; Senoh, Makoto; Tsumaki, Koji; and Miyata, Kenji, 4,641,526, Cl. 73-572.000.

Tsumura, Akio; Yamamoto, Suguru; and Miyauke, Chiharu, to Nitto Electric Industrial Co., Ltd. Apparatus and method for contrasoundly measuring polarizing property. 4,684,256, 8-4-87, Cl. 356-367.000.

Tsumura, Hideo: *See*—
Sakurai, Kanji; Tsumura, Hideo; and Kawamura, Chiaki, 4,652,953, Cl. 360-106.000.

Tsumura, Takeo; Iwai, Hiroji; and Kadoya, Atsushi, to Sharp Kabushiki Kaisha: Typewriter misprint correction method. 4,708,505, 11-24-87, Cl. 400-697.100.

Tsumura, Takeo: *See*—
Matsui, Hiroyoshi; Tsumura, Takeo; and Sakanaka, Eiichi, 4,687,356, Cl. 400-144.200.

Tsunakawa, Mitsuaki; Komishi, Masataka; and Miyaki, Takeo, to Bristol-Myers Company: BMY-28121, a new antitumor antibiotic. 4,683,230, 7-28-87, Cl. 514-214.000.

Tsunashima, Kenji: *See*—
Hata, Ryosuke; Yamamichi, Shosuke; Hirose, Masayuki; Yoshii, Toshiya; Tsunashima, Kenji; and Horiuchi, Satoshi, 4,675,470, Cl. 174-25.00R.

Tsunazawa, Mitsuga: *See*—
Tamamori, Hideo; and Tsunazawa, Mitsuga, 4,655,510, Cl. 303-40.000.

Tsuneda, Haruhiro; and Yoshimura, Yasuzumi, to Kabushiki Kaisha Sankyo Seiki Seisakusho: DC motor drive control device. 4,677,356, 6-30-87, Cl. 318-258.000.

Tuneda, Mitsuo: *See*—
Kanda, Hisashi; Narao, Susumu; Morifuji, Kazuhiko; Kawada, Yuzo; Sakai, Takashi; Kawada, Takeshi; Shimada, Katsura; and Tuneda, Mitsuo, 4,670,953, Cl. 29-185.000.

Tsunehiro, Takashi; and Tsujioka, Shigeo, to Hitachi, Ltd. Graphic processor for color and positional data of an image to be displayed. 4,642,625, 2-10-87, Cl. 340-747.000.

Tsunekane, Kimichiro: *See*—
Kihara, Kazuhiko; Tsunekane, Kimichiro; Shidara, Hajime; and Makino, Tadashi, 4,653,674, Cl. 222-342.000.

Tsunekawa, Masaharu: *See*—
Niwa, Kazuhiro; Tsunekawa, Masaharu; and Nei, Atsushi, 4,652,955, Cl. 360-121.000.

Tsunekawa, Masaru; Naito, Yoshihiro; Hyodo, Masaya; and Hayashi, Tatsuya, to Aisin Seiki Kabushiki Kaisha; and Kabushiki Kaisha Toyoda Jidoshokki Seisakusho: Apparatus for controlling working gas pressure in stirling engines. 4,706,457, 11-17-87, Cl. 60-521.000.

Tsunekawa, Masaru: *See*—
Hasegawa, Masahiko; Naito, Yoshihiro; Tsunekawa, Masaru; and Momose, Yutaka, 4,677,824, Cl. 60-521.000.

Tsunekawa, Shou; and Harada, Nozomu, to Kabushiki Kaisha Toshiba: Multi-layered solid-state image sensor for three-dimensional picture image processing. 4,675,535, 6-23-87, Cl. 250-578.000.

Tsunekawa, Tokuichi, to Canon Kabushiki Kaisha: Drive system for a semiconductor laser. 4,639,924, 1-27-87, Cl. 372-33.000.

Tsunekawa, Tokuichi; Sato, Yuichi; Kawabata, Takashi; and Matsumura, Susumu, to Canon Kabushiki Kaisha: Distance measuring device with various controls of the light emitting means. 4,642,457, 2-10-87, Cl. 250-201.000.

Tsunekawa, Tokuichi; Kawabata, Takashi; Sato, Yuichi; and Matsumura, Susumu, to Canon Kabushiki Kaisha: Photoelectric transducer element. 4,644,149, 2-17-87, Cl. 250-214.00A.

Tsunekawa, Tokuichi; Hosoe, Kazuya; Kinoshita, Takao; Kawabata, Takashi; Sakai, Shinji; and Taguchi, Tatsuya, to Canon Kabushiki Kaisha: Focus detecting and/or focus adjustment method. 4,647,174, 3-3-87, Cl. 354-402.000.

Tsunekawa, Tokuichi, to Canon Kabushiki Kaisha: Camera light measuring system with aperture correction for different measuring modes. 4,652,109, 3-24-87, Cl. 354-432.000.

Tsunekawa, Tokuichi; Date, Nobuaki; Aizawa, Hiroshi; Hosoe, Kazuya; and Urushibara, Kazunori, to Canon Kabushiki Kaisha: Image recording system. 4,658,304, 4-14-87, Cl. 358-310.000.

Tsunekawa, Tokuichi; Sato, Yuichi; and Kawabata, Takashi, to Canon Kabushiki Kaisha: Device for sensing light and providing electrical readout. 4,672,189, 6-9-87, Cl. 250-201.000.

Tsunekawa, Tokuichi; Sato, Yuichi; Kawabata, Takashi; and Matsumura, Susumu, to Canon Kabushiki Kaisha: Distance measuring

device comprising a two sectioned sensor, each section having a plurality of sensing areas. 4,687,914, 8-18-87, Cl. 250-201.000.
Tsunekawa, Tokuichi, to Canon Kabushiki Kaisha. Photometric circuit for camera. 4,704,024, 11-3-87, Cl. 354-432.000.
Tsunekawa, Tokuichi; and Sato, Yuichi, to Canon Kabushiki Kaisha. Signal processing circuit of solid state image pickup device. 4,712,136, 12-8-87, Cl. 358-213.150.
Tsunekawa, Tokuichi: *See*—
Fujibayashi, Kazuo; Tsunekawa, Tokuichi; and Ohmura, Hiroshi. 4,697,905, Cl. 354-406.000.
Kawabata, Takashi; Sato, Yuichi; Tsunekawa, Tokuichi; and Matsumura, Susumu. 4,681,432, Cl. 356-4.000.
Ohmura, Hiroshi; Tsunekawa, Tokuichi; Kiyohara, Shyuichi; and Kawabata, Takashi. 4,682,873, Cl. 354-478.000.
Sakane, Toshio; Taguchi, Tetsuya; Ogawa, Masahiko; Tamura, Shuichi; and Tsunekawa, Tokuichi. 4,636,053, Cl. 354-403.000.
Sakane, Toshio; and Tsunekawa, Tokuichi. 4,638,367, Cl. 358-228.000.
Sato, Yuichi; Tsunekawa, Tokuichi; and Kawabata, Takashi. 4,678,323, Cl. 365-4.000.
Tsuneki, Takao; Ano, Shinji; Uchida, Takahiko; Imai, Tomoyasu; Okamoto, Masaru; Ohtaka, Hideo; and Murakami, Hiromi, to Kurita Water Industries Ltd. Water treatment agent. 4,666,609, 5-19-87, Cl. 210-701.000.
Tsuneki, Yukio, to Kabushiki Kaisha Toshiba. Dot-matrix printer with font cartridge unit. 4,660,998, 4-28-87, Cl. 400-61.000.
Tsuneki, Yukio, to Kabushiki Kaisha Toshiba. Dot-matrix printer with font cartridge unit. 4,660,999, 4-28-87, Cl. 400-61.000.
Tsunekuni, Masao; and Ishizawa, Yasuhisa, to Canon Kabushiki Kaisha. Coordinate inputting apparatus using multiple sensors. 4,712,100, 12-8-87, Cl. 340-710.000.
Tsunemi, Hidenari: *See*—
Tonoki, Satoshi; Tsunemi, Hidenari; Nishimura, Asaichi; and Abe, Kunihisa. 4,710,420, Cl. 428-212.000.
Tsunemine, Toyohiko: *See*—
Miyai, Kiyoshi; Uotani, Shuhei; and Tsunemine, Toyohiko. 4,635,010, Cl. 355-3.00R.
Miyai, Kiyoshi; Shuhei, Uotani; Tsunemine, Toyohiko; Kamitani, Yutaka; and Nakanishi, Yuji. 4,666,281, Cl. 355-3.05H.
Tsuneo, Ishino, to Nippon Filcon Co., Ltd. Forming fabric for use in a papermaking machine. 4,640,741, 2-3-87, Cl. 162-202.000.
Tsunetsugu, Tsuyoshi: *See*—
Shimamoto, Hideki; Miyazaki, Yoshio; Aoshima, Yoichi; Tsunetsugu, Tsuyoshi; Nagara, Hisao; Kuwae, Yoshiteru; and Shiono, Kazushi. 4,652,968, Cl. 361-319.000.
Tsunewaki, Koichiro; and Ohtsuka, Ichiro, to Sumitomo Chemical Company, Limited. Hybrid seed production in common wheat using cytoplasmic male sterility. 4,680,888, 7-21-87, Cl. 47-58.000.
Tsuno, Katsuhiko: *See*—
Okumura, Eisuke; and Tsuno, Katsuhiko. 4,703,167, Cl. 250-203.00R.
Tsuno, Kazuhiko: *See*—
Ogawa, Hirotoshi; and Tsuno, Kazuhiko. 4,676,479, Cl. 251-151.000.
Tsuno, Koichi, to Sumitomo Electric Industries, Ltd. Image fiber with a mechanism for rotating a field of view. 4,640,577, 2-3-87, Cl. 350-96.250.
Tsuno, Koichi, to Sumitomo Electric Industries, Ltd. Fiberscope with bending mechanism. 4,708,434, 11-24-87, Cl. 350-96.260.
Tsuno, Nobuo: *See*—
Matsui, Minoru; and Tsuno, Nobuo. 4,648,308, Cl. 92-212.000.
Matsui, Minoru; and Tsuno, Nobuo. 4,667,627, Cl. 123-193.00P.
Matsui, Minoru; and Tsuno, Nobuo. 4,709,621, Cl. 92-212.000.
Oda, Isao; and Tsuno, Nobuo. 4,690,617, Cl. 416-241.00B.
Tsuno, Riichi: *See*—
Miyafuji, Motohisa; Yuchi, Tateo; and Tsuno, Riichi. 4,687,633, Cl. 420-481.000.
Tsunoda, Akira; Tanaka, Takahiko; and Handa, Noboru, to Asmo Co., Ltd. Concealed wiper system. 4,673,853, 6-16-87, Cl. 318-443.000.
Tsunoda, Akira; Tanaka, Takahiko; and Handa, Noboru, to ASMO Co., Ltd. Concealed wiper system. 4,689,535, 8-25-87, Cl. 318-443.000.
Tsunoda, Arihiro: *See*—
Akiyama, Kazunori; Tsunoda, Arihiro; and Tanaka, Satoshi. 4,678,178, Cl. 271-242.000.
Watanabe, Toshio; Tsutsui, Eiji; and Tsunoda, Arihiro. 4,710,017, Cl. 355-8.000.
Tsunoda, Katsuya; and Okuyama, Hiroo, to Nissan Motor Co., Ltd. Instrument panel construction. 4,668,004, 5-26-87, Cl. 296-70.000.
Tsunoda, Kazuhiko: *See*—
Tanaka, Osami; Tagami, Tomoyuki; and Tsunoda, Kazuhiko. 4,673,053, Cl. 180-227.000.
Tsunoda, Kazuyuki, to NEC Corporation. Radio paging receiver operable on a word scrolling basis. 4,646,081, 2-24-87, Cl. 340-825.440.
Tsunoda, Kazuyuki, to NEC Corporation. Radio paging receiver operable on a word-scrolling basis. 4,660,032, 4-21-87, Cl. 340-825.440.
Tsunoda, Kazuyuki: *See*—
Ichikawa, Yoshio; Akahori, Masaaki; Ishii, Daisuke; Tsunoda, Kazuyuki; Minami, Yohichiro; and Nagata, Koichi. 4,639,726, Cl. 340-825.440.
Oyagi, Takashi; and Tsunoda, Kazuyuki. 4,713,659, Cl. 340-825.440.
Tsunoda, Koichi: *See*—
Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Koichi. 4,660,401, Cl. 72-331.000.
Tsunoda, Kouichi: *See*—
Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Kouichi. 4,638,538, Cl. 29-149.50C.
Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Kouichi. 4,693,107, Cl. 72-354.000.
Tsunoda, Minoru: *See*—
Kadono, Kohji; and Tsunoda, Minoru. 4,691,800, Cl. 180-219.00.
Nakamura, Michio; Tsunoda, Minoru; Murakami, Hiroshi; Matsui, Yuuji; Matsuhashi, Norriyasu; and Fukuchi, Kiyoshi. 4,651,762, Cl. 280-5.00A.
Tsunoda, Norio: *See*—
Yamashita, Masatoshi; and Tsunoda, Norio. 4,695,059, Cl. 273-360.000.
Tsunoda, Susumu: *See*—
Yamada, Hideo; Ichiki, Shigemi; Naniwa, Hisamoto; Uchida, Susumu; Kadokura, Kenji; Tsunoda, Susumu; and Nakajima, Kunio. 4,674,127, Cl. 383-6.000.
Tsunoda, Teruo; and Kokawa, Ryoichi, to Komori Printing Machinery Co., Ltd. Method and system for processing image signals. 4,649,566, 3-10-87, Cl. 382-1.000.
Tsunoda, Teruo, to Komori Printing Machinery Co., Ltd. Apparatus for detecting image area of thin plate. 4,678,336, 7-7-87, Cl. 356-380.000.
Tsunoda, Tsutomu: *See*—
Yoda, Kunichi; Kitaura, Eiji; Tsunoda, Tsutomu; and Kawakami, Yoshio. 4,713,278, Cl. 428-141.000.
Tsunoda, Yoshiaki; and Matsuda, Hideo, to Tokyo Shibaura Denki Kabushiki Kaisha. Light-triggered semiconductor device. 4,695,871, 9-22-87, Cl. 357-74.000.
Tsunoda, Yoshito: *See*—
Kaku, Toshimitsu; Kataoka, Keiji; Tsunoda, Yoshito; and Shigematsu, Kazuo. 4,656,618, Cl. 369-112.000.
Kaku, Toshimitsu; Tsunoda, Yoshito; Maeda, Takeshi; and Nakamura, Shigeru. 4,663,751, Cl. 369-46.000.
Tsunoi, Haruo, to Canon Kabushiki Kaisha. Device for recording information on a photosensitive medium for electrophotography. 4,693,548, 9-15-87, Cl. 350-96.130.
Tsunoi, Kazuhisa: *See*—
Kuwabara, Kiyoshi; Nishihara, Mikio; and Tsunoi, Kazuhisa. 4,675,789, Cl. 361-414.000.
Tsunokawa, Shinya: *See*—
Iuchi, Akira; and Tsunokawa, Shinya. 4,638,975, Cl. 251-149.600.
Tsunooka, Tsutomu; Takeuchi, Tadashi; Ushida, Kunihiro; and Kawajiri, Shogo, to NGK Spark Plug Co., Ltd. Sheet-like piezoelectric element. 4,638,206, 1-20-87, Cl. 310-313.00B.
Tsunooka, Tsutomu; Saito, Shigeo; Yamamoto, Takashi; and Ito, Hiroshi, to NGK Spark Plug Co., Ltd. Piezoelectric composite material. 4,675,123, 6-23-87, Cl. 252-62.900.
Tsunooka, Tsutomu: *See*—
Kinoshita, Takeo; Ikoma, Hideyuki; and Tsunooka, Tsutomu. 4,704,373, Cl. 501-136.000.
Tsunoyama, Kouzou; Tanimoto, Wataru; Ohashi, Yoshiharu; Kimura, Shigeyuki; and Asakawa, Fumio, to Kawasaki Steel Corporation; Japan Spectroscopic Co., Ltd; and Spectral Instrument Co. Method of performing continuous on-line laser emission spectroscopic analysis on a flowing fluid sample by laser and apparatus therefor. 4,652,128, 3-24-87, Cl. 356-318.000.
Tsunoyama, Kouzou; Ohashi, Yoshiharu; Furunoshi, Yasuko; and Konishi, Motoyuki, to Kawasaki Steel Corporation. Method of laser emission spectroscopical analysis and apparatus therefor. 4,690,558, 9-1-87, Cl. 356-318.000.
Tsunoyama, Kouzou: *See*—
Tanimoto, Wataru; and Tsunoyama, Kouzou. 4,645,342, Cl. 356-318.000.
Tsunoyama, Kozo: *See*—
Satoh, Susumu; Matsuoka, Saiji; Obara, Takashi; Tsunoyama, Kozo; and Irie, Toshio. 4,676,844, Cl. 148-12.00C.
Tsunoyama, Kozou: *See*—
Yasuda, Akira; Ikehira, Junko; Itoh, Kenji; Takasaki, Junsuke; and Tsunoyama, Kozou. 4,670,065, Cl. 148-2.000.
Tsuoss Corporation: *See*—
Shibata, Toru. 4,636,167, Cl. 425-589.000.
Tsur, Yuval; Duby, Tomas; and Stokar, Saul. Apparatus and methods for selective excitation. 4,656,424, 4-7-87, Cl. 324-309.000.
Tsuru, Daisuke; Yoshimoto, Tadashi; Hagiwara, Hisao; and Kato, Kunio, to Kabushiki Kaisha Yakult Honsha. Anti-amnestic agent. 4,687,778, 8-18-87, Cl. 514-419.000.
Tsuru, Masahiro; and Mitani, Kazuto, to Nippon Kokan Kabushiki Kaisha. Billet control method in a horizontal continuous casting system. 4,651,803, 3-24-87, Cl. 164-454.000.
Tsuru, Masahiro: *See*—
Mitani, Kazuo; Hirota, Yoshiharu; Kumagai, Shinobu; Komori, Shigeki; and Tsuru, Masahiro. 4,660,618, Cl. 164-454.000.
Tsuru, Masato: *See*—
Matsubara, Yoshiaki; and Tsuru, Masato. 4,644,462, Cl. 364-200.000.
Tsuru, Naohiko; Matsuura, Ryoichi; Otsuki, Hiromi; Fujinami, Hiroshi; Hori, Shinichi; Nomura, Yoshihisa; and Oka, Hiroyuki, to Nippondenso Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Hydraulic pressure control device for use in vehicle anti-skid braking system. 4,636,009, 1-13-87, Cl. 303-93.000.
Tsuru, Seiji: *See*—
Uchida, Riichi; Matsubara, Katsumi; and Tsuru, Seiji. 4,664,601, Cl. 417-27.000.

Tsuruda, Makoto: *See*—
Kohama, Satoshi; Wakamiya, Yoshinori; and Tsuruda, Makoto, 4,657,507, Cl. 432-18.000.

Tsuruda, Mineo; Oe, Takanori; Kawasaki, Kazuyuki; Mikashima, Hiroshi; and Yasuda, Hiroshi, to Yoshitomi Pharmaceutical Industries, Ltd. Imidazole derivatives. 4,661,603, 4-28-87, Cl. 548-346.000.

Tsuruda, Wataru: *See*—
Nishino, Yoshimitsu; Tsuruda, Wataru; Koike, Kihachiro; and Matsuoka, Kensaku, 4,678,256, Cl. 439-347.000.

Tsuruhashi, Takayuki: *See*—
Azuma, Hidekazu; Yoshinaka, Ryozi; Tsuruhashi, Takayuki; Hokao, Katsuiku; Watanabe, Kazuki; Ogo, Kazutaka; Suzuki, Takatoshi; and Hayashi, Masahiro, 4,656,868, Cl. 73-587.000.
Ogo, Kazutaka; Hayashi, Masahiro; Suzuki, Takatoshi; Hokao, Katsuiku; Asai, Akio; and Tsuruhashi, Takayuki, 4,709,198, Cl. 318-571.000.

Tsurumaki, Kazuyoshi: *See*—
Ohtsuki, Tomonari; and Tsurumaki, Kazuyoshi, 4,695,914, Cl. 361-42.000.
Saito, Kaneo; Kodaka, Fujio; and Tsurumaki, Kazuyoshi, 4,653,891, Cl. 354-304.000.

Tsurumaru, Akihiko: *See*—
Ichihara, Takeo; Yamanaka, Yukio; and Tsurumaru, Akihiko, 4,682,072, Cl. 313-115.000.

Tsurumaru, Shinobu: *See*—
Kanno, Masayoshi; Hideshima, Yasuhiro; Tsurumaru, Shinobu; and Kanayama, Ikuo, 4,691,236, Cl. 358-181.000.

Tsurumi, Hideyuki: *See*—
Nomura, Katsuaki; and Tsurumi, Hideyuki, 4,663,200, Cl. 427-387.000.

Tsurumi, Yasuhisa: *See*—
Kiyoto, Sumio; Murai, Hidetsugu; Tsurumi, Yasuhisa; Terano, Hiroshi; and Kohsaka, Masanobu, 4,670,259, Cl. 424-118.000.
Tsurumi, Yasuyuki; and Matsuzaki, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle. 4,633,965, 1-6-87, Cl. 180-229.000.

Tsurumizu, Takashi; Hashimoto, Takashi; and Takahashi, Takashi, to Kitasato Kenkyusho. Dental vaccine for inhibiting periodontitis. 4,661,350, 4-28-87, Cl. 424-92.000.

Tsurumoto, Kazuo: *See*—
Ozaki, Yoshio; and Tsurumoto, Kazuo, 4,673,789, [illegible], 219-69.00W.
Ozaki, Yoshio; Tsurumoto, Kazuo; Yatomi, Takeshi; and Yamamoto, Masahiro, 4,695,696, Cl. 219-69.00P.

Tsuruno, Masayoshi; and Horie, Michihiko, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha; and Ishikawajima Plant Engineering Kabushiki Kaisha. Apparatus for cooling high-temperature particles. 4,702,019, 10-27-87, Cl. 34-168.000.

Tsuruoka, Ichiro; and Takahashi, Mitsuru, to Ricoh Company, Ltd. Fixing device for copying machine. 4,714,427, 12-22-87, Cl. 432-59.000.

Tsuruoka, Kazuhiro: *See*—
Ichikawa, Norio; Takeda, Seijiro; and Tsuruoka, Kazuhiro, 4,644,797, Cl. 73-706.000.
Takeda, Seijiro; Ichikawa, Norio; and Tsuruoka, Kazuhiro, 4,670,730, Cl. 338-4.000.

Tsuruoka, Kouichi; Kannan, Takaaki; and Suematu, Jiro, to Kanai Sharin Kogyo Kabushiki Kaisha; and Kabushiki Kaisha Kasho. Automatic hanging up and taking down devices for automobile wheels. 4,699,264, 10-13-87, Cl. 198-468.200.

Tsuruoka, Michihiko: *See*—
Miyoshi, Noriomi; Tsuruoka, Michihiko; and Nagumo, Mutsumi, 4,648,280, Cl. 73-861.240.

Tsuruoka, Ryoichi, to Rank Xerox Limited. Toner recovery device. 4,711,561, 12-8-87, Cl. 355-3.00R.

Tsuruoka, Takashi: *See*—
Inouye, Shigeharu; Koyama, Masao; Miyauchi, Keinosuke; Tsuruoka, Takashi; Kai, Fumio; Matsumoto, Kuniomi; Nuida, Taro; and Akita, Eiichi, 4,647,572, Cl. 514-381.000.

Tsuruoka, Yoshihiro: *See*—
Doki, Yoshikuni; Fujiwara, Masatoshi; Shiga, Tatsuhide; Shono, Yohsuke; Tanaka, Mikio; and Tsuruoka, Yoshihiro, 4,649,359, Cl. 335-222.000.

Tsuruoka, Yoshihisa: *See*—
Morimoto, Kiyoshi; Watanabe, Hiroshi; and Tsuruoka, Yoshihisa, 4,666,415, Cl. 445-24.000.

Tsuruse, Hideki: *See*—
Naito, Akira; Kodama, Tetsuji; Tsuruse, Hideki; and Tsutsumi, Hironobu, 4,645,993, Cl. 318-568.000.
Naito, Akira; Kodama, Tetsuzi; Tsuruse, Hideki; Tsutsumi, Hironobu; and Ushio, Hiroshi, 4,646,354, Cl. 382-28.000.

Tsurushima, Masaaki: *See*—
Kawada, Mitsuru; Matsumoto, Kiyoharu; and Tsurushima, Masaaki, 4,689,404, Cl. 536-23.000.

Tsuruta, Hisato: *See*—
Ejiri, Yuuki; Ito, Tomoo; Tsuruta, Hisato; and Kamifuji, Hiroshi, 4,639,624, Cl. 310-154.000.

Tsuruta, Kenji, to Ohbayashi-Gumi, Ltd. Method of measuring the strength of concrete for slip form process. 4,715,726, 12-29-87, Cl. 374-162.000.

Tsuruta, Koji: *See*—
Ohkoshi, Akio; Tsuruta, Koji; Nakagawa, Hideaki; and Shimada, Satoshi, 4,710,765, Cl. 340-781.000.

Tsuruta, Masahiko: *See*—
Hiroa, Akira; and Tsuruta, Masahiko, 4,639,805, Cl. 360-108.000.

Tsuruta, Masao, to Fuji Photo Film Co., Ltd. Magnetic tape cassette. 4,650,136, 3-17-87, Cl. 242-198.000.

Tsuruta, Matsuhisa, to Atsin Seiki Kabushiki Kaisha. Disc brake assembly with parking brake mechanism. 4,681,194, 7-21-87, Cl. 188-71.900.

Tsuruta, Naohiro: *See*—
Ai, Hideo; Koizumi, Yohsuke; and Tsuruta, Naohiro, 4,667,006, Cl. 526-285.000.

Tsuruta, Shoji; Minami, Hideaki; Ohhata, Yoshinori; and Sakai, Shinsuke, to Mitsubishi Kinzoku Kabushiki Kaisha; and Japan Silicon Co., Ltd. Apparatus for dressing cutting edge. 4,699,118, 10-13-87, Cl. 125-11.00R.

Tsuruzoe, Nobutomo: *See*—
Fujikawa, Yoshihiro; Sakashita, Mitsuaki; and Tsuruzoe, Nobutomo, 4,639,444, Cl. 514-222.000.
Fujikawa, Yoshihiro; Suzuki, Mikio; Sakashita, Mitsuaki; Tsuruzoe, Nobutomo; and Miyasaka, Tadashi, 4,654,348, Cl. 514-258.000.

Tsushima, Kazunori; Matsuo, Noritada; Kisida, Hiroshi; and Yano, Toshihiko, to Sumitomo Chemical Company, Limited. Ether compound, and an insecticidal and acaricidal composition containing it as an active ingredient. 4,664,698, 5-12-87, Cl. 71-94.000.

Tsushima, Kazunori: *See*—
Matsuo, Noritada; Tsushima, Kazunori; Nishida, Sumio; and Yano, Toshihiko, 4,714,712, Cl. 514-531.000.

Tsushima, Noboru: *See*—
Harumatsu, Masatoshi; Fuse, Masashi; Tomoyori, Makoto; and Tsushima, Noboru, 4,672,563, Cl. 364-559.000.

Tsushima, Noburu; Fuse, Masashi; Mimori, Teruo; Sasaki, Toshio; and Mukai, Tadashi, to Alps Electric Co., Ltd. Vehicle location display device with averaging means for correcting location information. 4,673,878, 6-16-87, Cl. 324-226.000.

Tsushima, Noriyuki; and Nakajima, Hirokazu, to NTN Toyo Bearing Co., Ltd. Rolling bearing. 4,696,581, 9-29-87, Cl. 384-565.000.

Tsushima, Rikio: *See*—
Kondo, Akihiro; Tsushima, Rikio; and Sumida, Yuzo, 4,639,491, Cl. 524-801.000.
Nagamori, Hiroyuki; Mukai, Takashi; Tsushima, Rikio; Kuwamoto, Hiroshi; Iwado, Shuichi; and Sharyo, Takeru, 4,650,595, Cl. 252-32.500.

Tsushima, Satoru: *See*—
Koga, Tadao; Sugimori, Mitsuru; Terasaki, Masanori; Macnosono, Tsukasa; Tsushima, Satoru; Yoshida, Kazuo; Kurwaki, Tetsusho; and Hirado, Miharu, 4,687,894, Cl. 219-10.430.

Tsushima, Shuuichi: *See*—
Matsumoto, Fuyuhiko; and Tsushima, Shuuichi, 4,673,284, Cl. 355-15.000.

Tsushima, Susumu: *See*—
Nojima, Shoshichi; Nomura, Hiroaki; and Tsushima, Susumu, 4,649,203, Cl. 548-112.000.
Nomura, Hiroaki; Nishikawa, Kohei; and Tsushima, Susumu, 4,650,791, Cl. 514-82.000.

Tsushima, Takuya, to Victor Company of Japan, Ltd. Video signal delay circuit. 4,649,427, 3-10-87, Cl. 358-160.000.

Tsushima, Takuya, to Victor Company of Japan, Ltd. Video signal recording and reproducing apparatus having a pre-emphasis and de-emphasis system for noise reduction. 4,658,305, 4-14-87, Cl. 358-327.000.

Tsushima, Takuya, to Victor Company of Japan, Ltd. Multiplexed color video signal recording and reproducing apparatus. 4,677,498, 6-30-87, Cl. 358-310.000.

Tsushima, Takuya: *See*—
Hirota, Akira; and Tsushima, Takuya, 4,635,116, Cl. 358-160.000.
Hirota, Akira; and Tsushima, Takuya, 4,682,251, Cl. 360-33.100.

Tsutani, Sadahiro: *See*—
Hagihara, Shiro; Tsutani, Sadahiro; and Maeda, Yoichiro, 4,702,331, Cl. 180-9.320.

Tsutiya, Yasuhiro: *See*—
Yamazawa, Yasushi; Kondo, Katsumi; Tsutiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,673,451, Cl. 156-172.000.

Tsutomu, Ikeda: *See*—
Susumu, Kubo; Tsutomu, Ikeda; Yoichi, Takanami; and Yoichi, Mikami, 4,701,522, Cl. 530-370.000.

Tsutsui, Akio, to Sharp Kabushiki Kaisha. CRT display unit. 4,684,987, 8-4-87, Cl. 358-148.000.

Tsutsui, Eiji: *See*—
Watanabe, Toshio; Tsutsui, Eiji; and Tsunoda, Arihiro, 4,710,017, Cl. 355-8.000.

Tsutsui, Hiroshi: *See*—
Baba, Sueki; Yamamoto, Osamu; Yamashita, Tadaaki; and Tsutsui, Hiroshi, 4,651,005, Cl. 250-360.100.
Ikedo, Masaru; Watari, Masafumi; Hayashi, Yoshiaki; Yamamoto, Osamu; and Tsutsui, Hiroshi, 4,678,275, Cl. 350-96.340.

Tsutsui, Ichiro: *See*—
Saito, Junya; Yamada, Hisafumi; and Tsutsui, Ichiro, 4,667,241, Cl. 358-167.000.

Tsutsui, Koichi; Eguchi, Yoshio; and Kataoka, Hiroyoshi, to Nippon Paint Co., Ltd. Process for producing polymeric resin. 4,659,795, 4-21-87, Cl. 526-301.000.

Tsutsui, Kyoji, to Ricoh Co., Ltd. Disazo compounds with xanthone nucleus for electrophotography. 4,716,220, 12-29-87, Cl. 534-758.000.

Tsutsui, Mikio: *See*—
Sekiya, Tetsuo; Tsutsui, Mikio; Horii, Daijiro; and Ishibashi, Akira, 4,668,682, Cl. 514-259.000.

Tsutsui, Mitsukuni: *See*—
Uchiyama, Kaoru; and Tsutsui, Mitsukuni, 4,672,847, Cl. 73-204.000.

Tsutsui, Osamu; Kuwahara, Hidehiko; and Yasuda, Hiroshiko, to Toto Ltd. Hot and cold water mixing faucet. 4,653,538, 3-31-87, Cl. 137-625.460.
Tsutsui, Satoshi; Sudo, Tadamitsu; and Ito, Michio, to Mitsubishi Chemical Industries Limited. Method for assaying antigen-antibody reactions and reagent thereof. 4,672,045, 6-9-87, Cl. 436-518.000.
Tsutsui, Tomikazu. *See*—
Fujii, Teruo; and Tsutsui, Tomikazu, 4,637,710, Cl. 355-72.000.
Tsutsui, Toshiaki; and Ohki, Hiroshi, to Nikkiso Co., Ltd. Canned motor pump for use at high temperatures. 4,652,218, 3-24-87, Cl. 417-368.000.
Tsutsui, Toshihiro. *See*—
Imai, Tomoyasu; Mukai, Ryouhei; and Tsutsui, Toshihiro, 4,662,120, Cl. 51-101.00R.
Tsutsui, Toshiyuki; Kioka, Mamoru; Toyota, Akinori; and Kashiwa, Norio, to Mitsui Petrochemical Industries, Ltd. Liquid ethylene-alpha-olefin random copolymer, process for production thereof, and use thereof. 4,704,591, 11-3-87, Cl. 585-10.000.
Tsutsui, Yoshimitsu. *See*—
Kono, Shigeyoshi; Tsutsui, Yoshimitsu; Koshiji, Fumio; and Sawayanagi, Tomohiko, 4,669,298, Cl. 72-453.130.
Tsutsui, Yoshio; Nakamura, Kiyoshi; Kimura, Akira; Imai, Hayato; Tamura, Kaoru; and Miura, Shozuchi, to Hitachi, Ltd. Control system for an electric locomotive having AC to DC converters. 4,700,283, 10-13-87, Cl. 363-68.000.
Tsutsui, Yoshio. *See*—
Hirotsu, Tetsuji; Kiwaki, Hisakatsu; Nakamura, Kiyoshi; Narita, Hiroshi; Kasai, Syozi; Kimura, Akira; and Tsutsui, Yoshio, 4,701,682, Cl. 318-52.000.
Tsutsui, Youji. *See*—
Tsuji, Kazuhiko; and Tsutsui, Youji, 4,646,778, Cl. 137-270.000.
Tsutsumi, Akira. *See*—
Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.
Tsutsumi, Hideo. *See*—
Takaya, Takao; Yasuda, Nobuyoshi; Tsutsumi, Hideo; and Matsuda, Keiji, 4,656,160, Cl. 514-41.000.
Tsutsumi, Hiroki. *See*—
Kitano, Senjin; and Tsutsumi, Hiroki, 4,647,744, Cl. 219-10.49A.
Tsutsumi, Hironobu. *See*—
Naito, Akira; Kodama, Tetsuji; Tsuruse, Hideki; and Tsutsumi, Hironobu, 4,645,993, Cl. 318-568.000.
Naito, Akira; Kodama, Tetsuzi; Tsuruse, Hideki; Tsutsumi, Hironobu; and Ushio, Hiroshi, 4,646,354, Cl. 382-28.000.
Tsutsumi, Hisao. *See*—
Takashi, Naotake; Urata, Kouichi; Inamoto, Yoshiaki; Tsutsumi, Hisao; and Kawano, Junichi, 4,634,719, Cl. 514-772.000.
Tsutsumi, Jiro; Uchiyama, Minoru; Katagiri, Kunio; and Yamada, Haruo, to Japan Metals and Chemicals Co., Ltd. Chemical injection tube mounting structure for geothermal well. 4,657,076, 4-14-87, Cl. 166-90.000.
Tsutsumi, Kazuhiko; Ohashi, Wataru; Nimomiya, Takeyoshi; and Temma, Masami, to Nippon Steel Corporation. Method of changing width of slab in continuous casting. 4,660,617, 4-28-87, Cl. 164-451.000.
Tsutsumi, Kazumichi, to Mitsubishi Denki Kabushiki Kaisha. Exhaust gas recirculation control method and apparatus for internal combustion engine. 4,641,624, 2-10-87, Cl. 123-571.000.
Tsutsumi, Masaru; Hagino, Hideo; Fujiwara, Osamu; and Goto, Hitoshi, to Sanyo Electric Co., Ltd. Fuel cell system. 4,642,274, 2-10-87, Cl. 429-35.000.
Tsutsumi, Masaru; Hagino, Hideo; and Fujiwara, Osamu, to Sanyo Electric Co., Ltd. Manifold device for fuel cell system. 4,670,361, 6-2-87, Cl. 429-34.000.
Tsutsumi, Shigeru. Injection molding process for synthetic resin and its apparatus. 4,687,613, 8-18-87, Cl. 264-328.150.
Tsutsumi, Shigeru. Pointed heat-generating device for molds of injection molding machines. 4,704,516, 11-3-87, Cl. 219-421.000.
Tsutsumi, Shigeru. *See*—
Yoshida, Yoshinchi, 4,643,664, Cl. 425-549.000.
Tsutsumi, Shunsaku. *See*—
Fujino, Kiyohiko; Namazue, Hirotoshi; Okuya, Shigetami; Tsutsumi, Shunsaku; Kobayashi, Satoru; and Shimizu, Keiichi, 4,700,186, Cl. 340-825.720.
Tsutsumi, Sunsaku; and Ozawa, Takuroo, to Kokusan Kinzoku Kogyo Kabushiki Kaisha. Lock actuator for a pair of locks. 4,702,117, 10-27-87, Cl. 74-89.170.
Tsutsumi, Takashi. *See*—
Suzuki, Kiziro; Tsutsumi, Takashi; Yokoyama, Shotaro; and Nishibe, Takashi, 4,668,084, Cl. 3[illegible]-1.000.
Tsutsumi, Teruo; and Hori, Masao, to Tokyo Shibaura Denki Kabushiki Kaisha. Electrostatic recording head, a method for manufacturing the same, and an apparatus for practicing this method. 4,635,357, 1-13-87, Cl. 29-850.000.
Tsutsumi, Teruo, to Kabushiki Kaisha Toshiba. Thermal transfer recording method and apparatus. 4,639,739, 1-27-87, Cl. 346-76.0PH.
Tsutsumi, Teruo; Ikeda, Sadao; and Takagi, Toshio, to Kabushiki Kaisha Toshiba. Thermal transfer recording apparatus. 4,660,053, 4-21-87, Cl. 346-76.0PH.
Tsutsumi, Teruo, to Kabushiki Kaisha Toshiba. Thermal transfer recording method. 4,675,698, 6-23-87, Cl. 346-76.0PH.
Tsutsumi, Yoshio. *See*—
Yato, Tokuhiro; and Tsutsumi, Yoshio, 4,644,334, Cl. 340-679.000.
Tsutsumi, Yoshitsugu. *See*—
Mase, Masahiro; Nagaoka, Takashi; Tsutsumi, Yoshitsugu; Tanyama, Minoru; and Terajima, Makoto, 4,668,160, Cl. 415-90.000.
Tsutsumikoshi, Shinobu; and Goto, Akira, to Suzuki Motor Company Limited. Steering apparatus for a saddle riding type motorcar having four wheels. 4,650,203, 3-17-87, Cl. 280-269.000.
Tsutsumikoshi, Shinobu. *See*—
Hirose, Takeo; Tsutsumikoshi, Shinobu; and Machi, Tomoo, 4,699,229, Cl. 180-9.210.
Tsuya, Noboru; and Arai, Kenichi, to Tsuya, Noboru. Thin ribbon of semiconductor material. 4,682,206, 7-21-87, Cl. 357-59.000.
Tsuyama Mfg. Co., Ltd. *See*—
Tsuyama, Sadaharu, 4,636,769, Cl. 340-134.000.
Tsuyama, Sadaharu, 4,642,606, Cl. 340-134.000.
Tsuyama, Sadaharu, to Tsuyama Mfg. Co., Ltd. Data display unit for a bicycle. 4,636,769, 1-13-87, Cl. 340-134.000.
Tsuyama, Sadaharu, to Tsuyama Mfg. Co., Ltd. Data display unit for a bicycle. 4,642,606, 2-10-87, Cl. 340-134.000.
Tsuyama, Yoshito. *See*—
Shimazaki, Yasumi; Tsuyama, Yoshito; Haga, Hiroyo; and Razawa, Manabu, 4,645,893, Cl. 219-62.000.
Tsuyoshi, Hidekazu. *See*—
Kanno, Haruki; Tsuyoshi, Hidekazu; Nishinakagawa, Ken; Ito, Makoto; Mochida, Tetsuo; Hisaka, Tsuguo; Miyaki, Munekazu; Kawarada, Minoru; and Kawarabayashi, Hideaki, 4,643,617, Cl. 405-222.000.
Tsuyoshi Masumoto. *See*—
Masumoto, Tsuyoshi; Inoue, Akihisa; and Tomioka, Hiroyuki, 4,655,857, Cl. 148-423.000.
Tsuyoshi, Toshiaki; Yonezawa, Seiji; Kasai, Masao; and Uno, Motoo, to Hitachi, Ltd. Phase compensation apparatus for an optical information recording and reproducing system. 4,710,909, 12-1-87, Cl. 369-46.000.
Tsuyoshi, Toshiaki. *See*—
Yonezawa, Seiji; Kanazawa, Yasunori; and Tsuyoshi, Toshiaki, 4,703,408, Cl. 369-44.000.
Yonezawa, Seiji; Ohtake, Masatoshi; Ito, Masaru; Tsuyoshi, Toshiaki; Ichino, Kazuo; and Nakagaki, Haruhiko, 4,707,816, Cl. 369-44.000.
Tsuyuguchi, Hiroshi; and Toma, Shozo, to Tokyo Corporation. Data transfer apparatus for use with a flexible magnetic disk or the like. 4,658,307, 4-14-87, Cl. 360-69.000.
Tsuyuguchi, Hiroshi; Morita, Tsutomu; and Shoji, Makoto, to Tokyo Corporation. Power saving circuit arrangement for an apparatus for data transfer with flexible magnetic disk or the like. 4,700,240, 10-13-87, Cl. 360-69.000.
Tsuyuguchi, Hiroshi. *See*—
Enami, Katsuya; Tsuyuguchi, Hiroshi; and Sakaguchi, Takahiro, 4,677,359, Cl. 318-69.000.
Enami, Katsuya; Tsuyuguchi, Hiroshi; and Sakaguchi, Takahiro, 4,697,129, Cl. 318-696.000.
Noda, Yasushi; Kitahara, Toshihiro; and Tsuyuguchi, Hiroshi, 4,688,131, Cl. 360-137.000.
Sakai, Yoshiaki; Tsuyuguchi, Hiroshi; Noda, Yasushi; and Sakaguchi, Takahiro, 4,675,763, Cl. 360-97.000.
Sakai, Yoshiaki; and Tsuyuguchi, Hiroshi, 4,691,255, Cl. 360-69.000.
Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hirai, Kazuhiro; and Morita, Tsutomu, 4,677,510, Cl. 360-99.000.
Shoji, Makoto; Tsuyuguchi, Hiroshi; Toma, Shozo; Hirai, Kazuhiro; and Morita, Tsutomu, 4,688,112, Cl. 360-60.000.
Tsuyuguchi, Koji. *See*—
Yokoi, Nobuyuki; Taira, Toshimitsu; and Tsuyuguchi, Koji, 4,660,749, Cl. 222-600.000.
Tsuyuguchi, Seiichi. *See*—
Kimura, Takayoshi; and Tsuyuguchi, Seiichi, 4,661,152, Cl. 75-76.000.
Kimura, Takayoshi; Tsuyuguchi, Seiichi; and Mori, Yoshiki, 4,695,317, Cl. 75-24.000.
Kimura, Takayoshi; Tsuyuguchi, Seiichi; and Mori, Yoshiki, 4,707,185, Cl. 75-24.000.
Tsuyuki, Yasuo; and Gotoh, Yuzoh, to Jidosha Kiki Co., Ltd. Low stroke reducing apparatus for hydraulic servomechanism. 4,656,923, 4-14-87, Cl. 91-369.00R.
Tsuyuki, Yousuke. *See*—
Murai, Masami; Hashio, Masanori; Tsuyuki, Yousuke; and Kaneko, Tsutomu, 4,675,814, Cl. 364-300.000.
Tsuyuzaki, Kazue. *See*—
Kase, Mitsuo; Okoshi, Noboru; and Tsuyuzaki, Kazue, 4,647,623, Cl. 525-123.000.
Tsuzawa, Takashi. *See*—
Ushio, Tetsuji; Tatsuguchi, Satoru; Tani, Hoshiro; and Tsuzawa, Takashi, 4,688,320, Cl. 29-527.400.
Tsuzuki, Akihiro. *See*—
Sekiya, Tadashi; Tsuzuki, Akihiro; and Torii, Yasuyoshi, 4,678,752, Cl. 430-136.000.
Tsuzuki, Akio, to Tomy Kogyo Co., Inc. Game apparatus. 4,696,477, 9-29-87, Cl. 273-241.000.
Tsuzuki, Akira. *See*—
Ito, Katsu; Shinabe, Munehiro; Miyajima, Akira; Hashimoto, Nobuyuki; Ohno, Hideshi; Tsuzuki, Akira; Morokawa, Shigeru; and Natori, Minoru, 4,663,670, Cl. 358-245.000.
Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru,

Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Kouchi, 4,652,932, Cl. 358-236.000.
Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358-236.000.
Tsuzuki, Isao, to Toyota Jidosha Kabushiki Kaisha. Power transmission for four-wheel drive vehicle. 4,650,202, 3-17-87, Cl. 280-248.000.
Tsuzuki, Kenji; and Uotani, Takeshi, to Toyo Soda Manufacturing Co., Ltd. Process for producing phenyl chlorothioformates. 4,695,644, 9-22-87, Cl. 558-249.000.
Tsuzuki, Kiyoshi; Tanaka, Sigeto; and Take, Yoshiaki, to Toppan Printing Co., Ltd. Ultrasonically sealed side seam on cup. 4,715,527, 12-29-87, Cl. 229-1.50B.
Tsuzuki, Mitsuo, to Kabushiki Kaisha Toshiba. Voltage output circuit. 4,675,592, 6-23-87, Cl. 323-313.000.
Tsuzuki, Mitsuo: *See*—
Itano, Tsutomu; and Tsuzuki, Mitsuo, 4,654,676, Cl. 346-140.0R.
Suga, Michihisa; and Tsuzuki, Mitsuo, 4,672,397, Cl. 346-140.00R.
Tsuzuki, Shigeo: *See*—
Sakakibara, Shiro; and Tsuzuki, Shigeo, 4,657,122, Cl. 192-3.310.
Sakakibara, Shiro; and Tsuzuki, Shigeo, 4,660,692, Cl. 192-3.310.
Tsuzuki, Takayoshi: *See*—
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Tsuzuki, Yoshihiko: *See*—
Konishi, Yoshimune; Hobo, Nobuhito; Tsuzuki, Yoshihiko; Kameoka, Narutoshi; Miyaki, Masahiko; and Koide, Hiroshi, 4,653,454, Cl. 123-506.000.
Tsuzuki, Yukio; Yamaoka, Masami; and Toyoshima, Shoji, to Nippondenso Co., Ltd. Semiconductor device. 4,680,608, 7-14-87, Cl. 357-36.000.
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Tsuzurahara, Mamoru; Baba, Hidetsuyo; and Kitakaze, Seiji, to Hitachi, Ltd. Magnetron cathode assembly with grooved insulating spacer. 4,684,845, 8-4-87, Cl. 313-341.000.
Tsygankov, Jury D.: *See*—
Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Grigory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000.
TTC: *See*—
Clowes, Garth A.; and Collas, James P., 4,644,107, Cl. 379-354.000.
TTE Holding Corp.: *See*—
McAuley, James A.; and Eppler, Susan G., 4,708,212, Cl. 175-42.000.
Tu, Charles W.: *See*—
Ibbotson, Dale E.; and Tu, Charles W., 4,689,115, Cl. 156-646.000.
Tu, Nan-Hsing. Segment connector for modular ladder. 4,687,076, 8-18-87, Cl. 182-178.000.
Tu, Tuan B.: *See*—
Beranek, Allen J.; Furchtgott, David G.; and Tu, Tuan B., 4,700,340, Cl. 370-16.000.
Tu-Way Products Company: *See*—
Griffin, Dana K., 4,707,877, Cl. 15-261.000.
Tuan, Hsing C.; and Thompson, Malcolm J., to Xerox Corporation. Ion projection copier. 4,646,163, 2-24-87, Cl. 358-300.000.
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Jamaud, Andre M. C., 4,659,146, Cl. 297-367.000.
Tubb, Anthony B.: *See*—
Flavell, John; Nash, Michael A.; and Tubb, Anthony B., 4,708,334, Cl. 271-182.000.
Tubb, Leonard J.: *See*—
Thomas, David M.; and Tubb, Leonard J., 4,697,185, Cl. 342-185.000.
Tubb, Roy S.: *See*—
Leedham, Peter A.; and Tubb, Roy S., 4,652,451, Cl. 426-11.000.
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Tolonen, Eric; Tubbe, Clifford J.; Giesbrecht, George G.; and Wiens, John A., 4,683,095, Cl. 264-171.000.
Tubbs, Graham S.; Daniels, Martin D.; Schaaf, Robert; and Walther, Ronald, to Texas Instruments Incorporated. Level sensitive latch stage. 4,667,339, 5-19-87, Cl. 377-79.000.
Tubbs, Graham S., to Texas Instruments Incorporated. Dummy load controlled multilevel logic single clock logic circuit. 4,700,088, 10-13-87, Cl. 307-480.000.
Tubbs, Graham S.: *See*—
Essig, Daniel L.; Pham, Luat Q.; Sexton, Joe F.; and Tubbs, Graham S., 4,646,257, Cl. 364-760.000.
Tubbs, Joseph T., to Trans World Connections Ltd. Modular adapter and connector cable for video equipment. 4,648,682, 3-10-87, Cl. 339-154.00A.
Tube-Alloy Corporation: *See*—
Albrecht, Norman M.; and Blanchard, Roy J., Sr., 4,655,485, Cl. 285-333.000.
Tube Fab of Afton Corporation: *See*—
Redman, Robert J., 4,708,039, Cl. 82-2.500.
Tube Runner Limited: *See*—
Munn, David C., 4,655,106, Cl. 82-4.00C.
Tubelite Division of Indall, Inc.: *See*—
Hattem, Marwan E.; and Rushford, Calvin R., 4,688,350, Cl. 49-44.000.
Tubi Italia S.p.A.: *See*—
Lazzerini, Pierluigi, 4,653,306, Cl. 72-370.000.
Tubiana, Dominique: *See*—
Courjaret, Francois; Del Fabbro, Gilbert; Devic, Jean-Noel; Divoux, Michel; Forella, Guy; Hamant, Jean-Pierre; Tubiana, Dominique; and Pavie, Claude, 4,701,094, Cl. 414-330.000.
Tubman, Iosif. Pressure tester cap. 4,679,424, 7-14-87, Cl. 73-45.800.
Tuboi, Masayoshi: *See*—
Anahara, Meiji; Muramatsu, Shigeru; Takagi, Isamu; and Tuboi, Masayoshi, 4,672,804, Cl. 57-401.000.
Tubular Fabricators Industry, Inc.: *See*—
Battiston, Joseph D., Sr.; and Battiston, Joseph, Jr., 4,640,301, Cl. 135-67.000.
Tuccella, Jean: *See*—
Karinthi, Pierre; Gardent, Maurice; Regnier, Colette; and Tuccella, Jean, 4,676,694, Cl. 405-130.000.
Tucciarone, Aldo: *See*—
Antonini, Bruno; Borghese, Camillo; D'Amico, Arnaldo; DeGasperis, Paolo; Paoletti, Antonio; Paroli, Paolo; Petrocco, Giovanni Tucciarone, Aldo; and Scarinci, Fernando, 4,640,629, Cl. 374-178.000.
Tucel Industries, Inc.: *See*—
Lewis, John C., Jr., 4,690,277, Cl. 206-362.100.
Lewis, John C., Jr., 4,693,519, Cl. 300-7.000.
Lewis Jr., John C., 4,696,519, Cl. 300-7.000.
Tuchiya, Takahiro; Tukuda, Kazuaki; Takada, Tadakazu; and Goto, Hiroshi, to Fujitsu Limited. Process for fabricating a semiconductor device. 4,654,113, 3-31-87, Cl. 156-643.000.
Tuchiya, Takanori: *See*—
Fukutomi, Hisao; Konishi, Takeshi; Kuraoka, Koji; Umeda, Morio; Tuchiya, Takanori; and Imura, Yutaka, 4,695,089, Cl. 296-107.000.
Imura, Yutaka; Konisi, Takesi; Tuchiya, Takanori; Umeda, Morio; Fukutomi, Hisao; and Kuraoka, Koji, 4,651,470, Cl. 49-502.000.
Kuraoka, Koji; Umeda, Morio; Konishi, Takeshi; and Tuchiya, Takanori, 4,700,982, Cl. 296-107.000.
Tuchman, Michael, to Hamat Koor Metals Ltd. Mixing cartridge for hot and cold water faucets. 4,633,906, 1-6-87, Cl. 137-625.170.
Tuchman, Samuel: *See*—
Perlov, Genz; and Tuchman, Samuel, 4,697,989, Cl. 417-53.000.
Tucholski, Gary R., to Union Carbide Corporation. Sealing gasket for electrochemical cells. 4,656,104, 4-7-87, Cl. 429-185.000.
Tucholski, Gary R.; and Chaney, Earl J., Jr., to Eveready Battery Company. Terminal pin-collector plate assembly for hermetically sealed cells. 4,672,010, 6-9-87, Cl. 429-56.000.
Tuck, Edward F.: *See*—
Morganstein, Sanford J.; Tuck, Edward F.; Mehta, Bakulesh A.; and Urakau, Herbert B., 4,696,028, Cl. 379-88.000.
Tuck, Frederick R.: *See*—
Kelly, John E.; Jones, Don C.; Tuck, Frederick R.; Zimmermann, William A.; and Clark, Kenneth R., 4,710,031, Cl. 356-440.000.
Tuck, Morris B., to Mississippi Power Company. Spacers for straightening warped precipitator curtains. 4,647,296, 3-3-87, Cl. 55-2.000.
Tucker, Armin W., deceased: *See*—
Birnbaum, Milton; and Tucker, Armin W., deceased, 4,669,831, Cl. 350-381.000.
Tucker, Charles E.: *See*—
Finke, Ronald J.; Mullen, Victor J.; Williams, Danny R.; Morris, Robert J.; and Tucker, Charles E., 4,661,662, Cl. 200-48.00R.
Tucker, Charles L.: *See*—
Wheeler, Gilbert A.; Church, Gregg A.; Tucker, Charles L.; and Ward, William R., 4,702,687, Cl. 425-227.000.
Tucker, Christopher J.: *See*—
Fisk, Thomas E.; and Tucker, Christopher J., 4,672,118, Cl. 546-13.000.
Tucker, Dalton R., to Arcoa Industries. Shoe butler with heel gripping device. 4,709,839, 12-1-87, Cl. 223-119.000.
Tucker, Daniel M. Chlorine generator device. 4,693,806, 9-15-87, Cl. 204-252.000.
Tucker, Herbert D.: *See*—
Nieboer, Keith A.; and Tucker, Herbert D., 4,700,525, Cl. 52-698.000.
Tucker, Howard, to Imperial Chemical Industries PLC. Amide derivatives. 4,636,505, 1-13-87, Cl. 514-256.000.
Tucker, James E., Stephen, James C.; and Beecher, John, III, to Weber-Stephen Products Co. Ltd. support for cart-mounted outdoor grill. 4,635,613, 1-13-87, Cl. 126-25.00R.
Tucker, James E.: *See*—
Lohmeyer, Charles W.; Schlosser, Erich J.; Tucker, James E.; Stephen, James C.; Leja, Andrzej; Beecher, John, III; Simpkins, Ronald W.; and Postka, Donald E., 4,677,964, Cl. 126-41.00R.
Stephen, James C.; Tucker, James E.; and Beecher, John, III, 4,688,541, Cl. 126-25.00R.
Tucker, James L., Jr.: *See*—
Ostendorff, Eric C.; and Tucker, James L., Jr., 4,715,843, Cl. 446-429.000.
Tucker, James L.; Landen, Terry R.; and Schelby, Robert L., to Nehco, Inc. Cage positioning device for use with a concrete pipe form. 4,710,115, 12-1-87, Cl. 425-117.000.
Tucker, Jewell G.: *See*—
Anthony, Thomas R.; Lindner, Philip A.; and Tucker, Jewell G., 4,695,760, Cl. 313-348.000.

Tucker, John H.: *See*—
Harrison, John W.; and Tucker, John H., 4,661,068, Cl. 433-181.000.

Tucker, Kevin M.; and Peeler, Donald, to Jobst Institute. Cervical collar. 4,712,540, 12-15-87, Cl. 128-76.00R.

Tucker, Marsha A., legal representative: *See*—
Birnbaum, Milton; and Tucker, Armin W., deceased, 4,669,831, Cl. 350-381.000.

Tucker, Merl T.: *See*—
Gutowski, Timothy A.; and Tucker, Merl T., 4,633,742, Cl. 83-13.000.

Tucker, Michael; and Perriera, Noel D., to Actel Partnership. Position and orientation (POSE) sensor and related method. 4,662,752, 5-5-87, Cl. 356-375.000.

Tucker, Michael C., to Gearhart Australia Limited. Earth anchors. 4,633,627, 1-6-87, Cl. 52-162.000.

Tucker, Paul T.: *See*—
Andersen, David M.; Bitzer, Donald L.; Rader, Robert K.; Sherwood, Bruce A.; and Tucker, Paul T., 4,636,174, Cl. 434-335.000.

Tucker, Richard A.: *See*—
Steenblik, Richard A.; Phillips, Asa R.; Mumay, Daniel P.; Denson, Lawrence K.; Tucker, Richard A.; and Clark, Jimmy M., 4,685,718, Cl. 296-154.000.

Tucker, Robert R.: *See*—
Gould, Diane C.; and Tucker, Robert R., 4,685,892, Cl. 446-109.000.

Tucker, Thomas A.: *See*—
Crockett, Peter N.; Jewett, Robert P.; Scriver, Arthur J.; and Tucker, Thomas A., 4,646,236, Cl. 364-200.000.

Tucker, Thomas J.: *See*—
Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; Molino, Bruce F.; Tucker, Thomas J.; and Banti, Ferdinand, Jr., 4,666,913, Cl. 514-259.000.

Tucker, Tillman J.: *See*—
Skogmo, Phillip J.; and Tucker, Tillman J., 4,680,434, Cl. 200-61.080.

Tuckerman, David B., to United States of America, Energy. Planarization of metal films for multilevel interconnects by pulsed laser heating. 4,674,176, 6-23-87, Cl. 29-591.000.

Tuckerman, David B., to United States of America, Energy. Planarization of metal films for multilevel interconnects. 4,681,795, 7-21-87, Cl. 428-209.000.

Tuckey, Charles H., to Walbro Corporation. Pressure regulator for liquid fuel system. 4,646,700, 3-3-87, Cl. 123-510.000.

Tuckey, Charles H., to Walbro Corporation. Fuel rail for internal combustion engines. 4,649,884, 3-17-87, Cl. 123-457.000.

Tuckey, Charles H., to Walbro Corporation. Rotary positive displacement fuel pump with purge port. 4,697,995, 10-6-87, Cl. 418-15.000.

Tuckey, Charles H., to Walbro Corporation. Lateral channel supply pump. 4,715,777, 12-29-87, Cl. 415-53.00T.

Tuckley, Trevor R.; and Pike, Harold W. E. Strip structure intended for clamping on a flange. 4,690,412, 9-1-87, Cl. 277-184.000.

Tuckman, Drew E. Brush extension device. 4,690,579, 9-1-87, Cl. 401-127.000.

Tucom, Paul. Dispenser for golf balls. 4,667,847, 5-26-87, Cl. 221-68.000.

Tucoulat, Marcel J., deceased: *See*—
Nolin, Claude H. A.; and Tucoulat, Marcel J., deceased, 4,699,726, Cl. 252-75.000.

Tucoulet, Juliette F. J., Regine F. Pugliese, Christine F. Gameaux, legal representatives: *See*—
Nolin, Claude H. A.; and Tucoulat, Marcel J., deceased, 4,699,726, Cl. 252-75.000.

Tudor, Thomas T.: *See*—
Lewis, Robert T.; and Tudor, Thomas T., 4,641,748, Cl. 206-263.000.

Tudor Webasto Limited: *See*—
Dufft, Jurgen, 4,645,259, Cl. 296-223.000.

Tueckmantel, Eberhardt; and Japs, Dieter, to Th. Kieserling & Albrecht GmbH & Co. Werkzeugmaschinenfabrik. Apparatus for separating elongated nonstraight elements. 4,662,506, 5-5-87, Cl. 198-463.500.

Tuenker, Gerhard: *See*—
Dulich, Helmut; Arfsten, Nanning J.; Schmidt, Helmut; Philipp, Gottfried; and Tuenker, Gerhard, 4,715,999, Cl. 264-1.100.

Tuerk, Erich; and Bucheler, Herbert, to Henkel Kommanditgesellschaft auf Aktien. Rotary closure cap for loose-material containers. 4,653,672, 3-31-87, Cl. 222-153.000.

Tuerk, James R. Tarp cover system for flat bed vehicles. 4,711,484, 12-8-87, Cl. 296-105.000.

Tuerk, Robert P. Roll tarp locking assembly. 4,657,062, 4-14-87, Cl. 160-243.000.

Tuf-Tite, Inc.: *See*—
Strobl, Frederick P., Jr.; and Meyers, Theodore W., 4,663,036, Cl. 210-170.000.

Tufco Corporation: *See*—
Frost, Stephen L.; and Watkins, Charles W., 4,671,194, Cl. 112-80.550.
Green, Jerry T., 4,705,231, Cl. 242-130.000.
Watkins, Charles W., 4,658,739, Cl. 112-80.300.

Tufte, Jerold W. Platform device. 4,640,483, 2-3-87, Cl. 248-311.200.

Tufte, Jerold W.; and Walen, Leander O. Press for cultivator shank. 4,646,553, 3-3-87, Cl. 72-389.000.

Tufte, Obert N., to Honeywell Inc. High temperature hetero-epitaxial pressure sensor. 4,706,100, 11-10-87, Cl. 357-16.000.

Tufts College, Trustees of: *See*—
Dodman, Nicholas H.; and Shuster, Louis, 4,692,451, Cl. 514-282.600.

Tufts, Timothy A.; and Culbertson, Billy M., to Ashland Oil, Inc. Resinous molding compositions of a phenol, an oxazoline and an epoxy compound. 4,652,620, 3-24-87, Cl. 525-504.000.

Tufts, Timothy A., to Ashland Oil, Inc. High impact cross-linked polyurethanes. 4,658,008, 4-14-87, Cl. 528-67.000.

Tufts, Timothy A.: *See*—
Goel, Anil B.; Tufts, Timothy A.; and Blackburn, Peggy A., 4,640,969, Cl. 528-73.000.
Goel, Anil B.; and Tufts, Timothy A., 4,708,971, Cl. 521-167.000.

Tufts, Wesley M.: *See*—
Heinze, Walter O.; and Tufts, Wesley M., 4,672,689, Cl. 4-415.00.
Moore, Wayne E.; Quinn, Stephen R.; Tufts, Wesley M.; and Gasko, William F., 4,714,316, Cl. 350-96.200.

Tufty, Lyle R., to International Business Machines Corporation. Precision spindle. 4,676,672, 6-30-87, Cl. 384-537.000.

Tufty, Lyle R.: *See*—
Schmidt, Laurence J.; Severson, Randall L.; Tufty, Lyle R.; and Voss, Steven H., 4,683,505, Cl. 360-98.000.

Tugaye, Anne: *See*—
Gourlaouen, Claire; Magnier, Claude; Latourrette, Bertrand; Tugaye, Anne; and Deneuve, Francoise, 4,698,175, Cl. 252-182.000.

Tuggle, Lloyd H.; Baker, Michael; and Franke, Jeffery S., to Emerson Electric Company. Hand held gas engine blower. 4,674,146, 6-23-87, Cl. 15-330.000.

Tuhy, Frank P., Jr., to AT&T Bell Laboratories. Non-saturating tristate driver circuit. 4,649,298, 3-10-87, Cl. 307-473.000.

Tuhy, Frank P., Jr., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Limiting amplifier for common mode feedback in telephone line feed circuits. 4,665,547, 5-12-87, Cl. 379-402.000.

Tuithof, Hans H.: *See*—
Kunz, Dietmar W.; Tuithof, Hans H.; and Cuppen, Johannes J. M., 4,707,659, Cl. 324-309.000.

Tuji, Takuji; and Okauchi, Shuki, to Kanzaki Paper Manufacturing Co., Ltd. Method for the production of a dispersion of colorless chromogenic material. 4,668,291, 5-26-87, Cl. 106-21.000.

Tujimura, Kiyoharu; and Ohsasa, Hiroshi, to STEC Inc. Control valve. 4,666,126, 5-19-87, Cl. 251-282.000.

Tujimura, Kiyoharu: *See*—
Shimizu, Tetsuo; Tujimura, Kiyoharu; and Iwamoto, Michinori, 4,695,034, Cl. 251-129.060.

Tujimura, Senkichi: *See*—
Maruoka, Kuniaki; Takahashi, Nobuyuki; Tujimura, Senkichi; Yamashita, Yasuhiko; Otsuka, Setsuo; Oohasi, Isao; and Motoyama, Takeo, 4,698,102, Cl. 148-2.000.

Tukamoto, Susumu: *See*—
Irie, Hirosada; and Tukamoto, Susumu, 4,673,794, Cl. 219-121.0ED.

Tukano, Moriyosi: *See*—
Kurotaka, Sigeo; and Tukano, Moriyosi, 4,696,418, Cl. 222-167.000.

Tukovy Prumysl, Koncern: *See*—
Smidrkal, Jan; Simunek, Jaroslav; Tolman, Jiri; Soucek, Jiri; Novacek, Alois; Novak, Jan; Krob, Vaclav; Kovar, Pavel; Klofac, Miroslav; and Vondracek, Bohumir, 4,637,894, Cl. 252-186.400.

Tukuda, Kazuaki: *See*—
Tuchiya, Takahiro; Tukuda, Kazuaki; Takada, Tadakazu; and Goto, Hiroshi, 4,654,113, Cl. 156-643.000.

Tukude, Noboru, to Asahi Glass Company Ltd. Electrochromic display device. 4,702,566, 10-27-87, Cl. 350-357.000.

Tula Silencers (Propriety) Limited: *See*—
Venter, Philippus, 4,683,978, Cl. 181-280.000.

Tulane Educational Fund: *See*—
Coy, David H., 4,647,653, Cl. 530-313.000.

Tulasne, Jacques, to Societe de Developpements et d'Innovations des Marches Agricoles et Alimentaires - SODIMA. Installation for automatically dispensing, on request, individual portions of drinking yoghurt in selected flavors. 4,635,825, 1-13-87, Cl. 222-129.100.

Tuliu, Maricara: *See*—
Stoian, Anatol; Panaitescu, Nicolita; and Tuliu, Maricara, 4,702,487, Cl. 208-390.000.

Tulkki, Viljo S., to A. Ahlstrom Corp. Decanting device for separation of phases of different densities. 4,689,158, 8-25-87, Cl. 210-802.000.

Tull, Herbert G., III: *See*—
Callens, E. Eugene, Jr.; Crowson, Leslie L., Jr.; Kobs, Robert P.; Tull, Herbert G., III; and Tahtouh, Joseph F., 4,706,360, Cl. 29-407.000.

Tullio, John A., to South Shore Manufacturing, Inc. Valve. 4,657,222, 4-14-87, Cl. 251-56.000.

Tullis, Andrew M., to United States of America, Energy. Ion detector. 4,697,083, 9-29-87, Cl. 250-374.000.

Tullis, Barclay J.; Bailey, John S.; Gunawardena, D. R.; and Kaempf, Ulrich, to Hewlett-Packard Company. Apparatus for automated cassette handling. 4,705,444, 11-10-87, Cl. 414-226.000.

Tullos, Hugh S.: *See*—
Noble, Philip C.; Tullos, Hugh S.; and Davidson, John P., 4,678,471, Cl. 623-16.000.

Tullsen, Thomas R., to Dionex Corporation. Chromatographic optical detector with logarithmic calibration circuit. 4,700,059, 10-13-87, Cl. 250-214.0AG.

Tully, Michael E.: *See*—
O'Halloran, P. Joseph; Laauwe, Robert H.; Roggenburg, Stanley L., Jr.; and Tully, Michael E., 4,634,022, Cl. 222-95.000.

Tully, Wilfred R. 2-substituted imidazo[1,2-c]pyrimidines having anxiolytic properties. 4,643,999, 2-17-87, Cl. 514-258.000.
Tully, Wilfred R.: *See*—
Gillespie, Roger J.; and Tully, Wilfred R., 4,703,049, Cl. 514-258.000.
Jones, Stuart D.; Tully, Wilfred R.; and Kennewell, Peter D., 4,654,338, Cl. 514-222.000.
Tulpule, Bhalchandra R.; and Blaha, Matthew S., to United Technologies Corporation. Coherent interface with wraparound receive memory. 4,635,254, 1-6-87, Cl. 370-85.000.
Tulpule, Bhalchandra R.; Oscarson, Edward M.; and Vosgien, David J., to United Technologies Corporation. Multi-channel clock synchronizer. 4,696,019, 9-22-87, Cl. 375-107.000.
Tulserate Limited: *See*—
Codd, Edwin T., 4,704,836, Cl. 52-650.000.
Tults, Juri: *See*—
Pitsch, Robert A.; Beyers, Billy W., Jr.; Moore, Larry G.; and Tults, Juri, 4,677,484, Cl. 358-155.000.
Tults, Juri, 4,677,484, Cl. 358-155.000.
Testin, William J.; and Tults, Juri, 4,641,190, Cl. 358-165.000.
Testin, William J.; and Tults, Juri, 4,689,685, Cl. 358-195.100.
Tuman, Robert W.: *See*—
Epps, Joyce E.; Ng, Kung-Tat; Tuman, Robert W.; and Wu, Wu-Nan, 4,670,436, Cl. 514-237.000.
Epps, Joyce E.; Ng, Kung-Tat; Tuman, Robert W.; and Wu, Wu-Nan, 4,716,163, Cl. 514-237.000.
Tumey, Michael L.: *See*—
Charbonneau, Robert R.; Heilmann, Steven M.; Rasmussen, Jerald K.; and Tumey, Michael L., 4,699,843, Cl. 428-355.001.
Tumicki, Thomas F.: *See*—
Dierberger, James A.; and Tumicki, Thomas F., 4,655,044, Cl. 60-751.000.
Tumidajewicz, Donald: *See*—
Butzow, Neil W.; Lambert, Gerald G.; and Tumidajewicz, Donald, 4,634,400, Cl. 464-55.000.
Tumily, James A. J.: *See*—
Loveday, Brian K.; Tumily, James A. J.; and Douglas, William D., 4,666,212, Cl. 299-5.000.
Tumminello, Salvatore, Jr.: *See*—
Tsamas, Anton; Bone, Eric R.; Stevens, Andrew; and Tumminello, Salvatore, Jr., 4,667,379, Cl. 24-636.000.
Tunac, Josefino B.: *See*—
Bigge, Christopher F.; Elslager, Edward F.; French, James C.; Graham, Blanche D.; Hokanson, Gerard C.; Mamwer, Stephen W.; Smitka, Tim A.; Tunac, Josefino B.; and Wilson, John H., 4,657,909, Cl. 514-249.000.
Schaumberg, John P.; Hokanson, Gerard C.; French, James C.; Tunac, Josefino B.; and Underhill, Marjorie A., 4,713,372, Cl. 514-45.000.
Tunac, Josephino. Fermentation apparatus and systems for the cultivation of microorganisms and other biological entities. 4,665,035, 5-12-87, Cl. 435-296.000.
Tune, Raymond L.: *See*—
Loukanis, Jesse J.; Mathews, Will W.; and Tune, Raymond L., 4,711,143, Cl. 76-108.00A.
Tuneblom, Eskil, to Dynapac Mfg. Inc. Cutter drum for pavement profiler. 4,697,850, 10-6-87, Cl. 299-87.000.
Tunekawa, Shyozi: *See*—
Hosoya, Yoshinori; Tunekawa, Shyozi; Yamada, Wazoh; and Shiraishi, Akira, 4,637,223, Cl. 62-263.000.
Tung, Chendo J.; and Manwaeto, John, to Xerox Corporation. Arrangement for the elimination of crosstalk between data and servo heads. 4,636,900, 1-13-87, Cl. 360-124.000.
Tung, Chi F.; and Bacon, Chester A., Jr., to Minnesota Mining and Manufacturing Company. Encapsulated flattop retroreflective sheeting and method for producing the same. 4,678,695, 7-7-87, Cl. 428-120.000.
Tung, Chi F.; and Coderre, James C., to Minnesota Mining and Manufacturing Company. Expanded retroreflective sheet material. 4,712,868, 12-15-87, Cl. 350-105.000.
Tung-Chow, Siu, to Tai Cheong Blinds Company Ltd. Window blinds for vehicles. 4,681,149, 7-21-87, Cl. 160-134.000.
Tung, Francisca: *See*—
Lee, James C. K.; Beck, Richard L.; and Tung, Francisca, 4,692,839, Cl. 361-386.000.
Tung, Hsueh S.; Friedland, David J.; Sukornick, Bernard; McCurry, Lynn E.; Eibeck, Richard E.; and Lockyer, George D., to Allied Corporation. Lithium/fluorinated carbon battery with no voltage delay. 4,681,823, 7-21-87, Cl. 429-218.000.
Tung, Kung-Chao. Structure for a string of bulbs. 4,654,766, 3-31-87, Cl. 362-249.000.
Tung, Lu H.: *See*—
Chung, David Y.; and Tung, Lu H., 4,659,784, Cl. 525-294.000.
Tung, Raymond T.: *See*—
Hensel, John C.; Levi, Anthony F. J.; and Tung, Raymond T., 4,707,197, Cl. 437-189.000.
Tung, Simon C.: *See*—
Wang, Su-Chee S.; and Tung, Simon C., 4,714,529, Cl. 204-56.100.
Tung, Stephen K.: *See*—
Robbins, Kenneth E.; Ruggles, Stephen G.; Duncan, Dan; Williams, John C.; Tung, Stephen K.; Sumner, William J.; and Dinh, Cuong V., 4,643,645, Cl. 416-190.000.
Tung, Thomas T.: *See*—
Kudert, Frederick G.; Latreille, Maurice G.; McHenry, Robert J.; Nahill, George F.; Pfutzenreuter, Henry, III; Tennant, William A.; Tung, Thomas T.; and Vella, John, Jr., 4,712,990, Cl. 425-130.000.
Tung, William C. T.; Wendling, Paul R.; and Brent, James W., Jr., to Goodyear Tire & Rubber Company, The. Solid state polymerization. 4,644,049, 2-17-87, Cl. 528-272.000.
Tungate, Freddie L.: *See*—
Battista, Richard A.; Bennett, James G., Jr.; Kokoszka, John J.; and Tungate, Freddie L., 4,661,638, Cl. 568-804.000.
Bennett, James G., Jr.; and Tungate, Freddie L., 4,677,089, Cl. 502-159.000.
Tungatt, Paul D.; Tyler, Derek E.; and Cheskis, Harvey P., to Olin Corporation. Technique for forming silicon carbide coated porous filters. 4,708,740, 11-24-87, Cl. 75-76.000.
Tungsram Reszvenytarsasag: *See*—
Czeiler, Andras; Lukacs, Sandor; Palotai, Tamas; Lakatos, Tibor; and Bakdos, Gyorgy, 4,689,172, Cl. 252-301.360.
Tungsram Reszvenytarsasag: *See*—
Gaspar, Janos, 4,658,184, Cl. 315-47.000.
Tungsram Rt.: *See*—
Csapody, Miklos, 4,678,958, Cl. 313-15.000.
Szekacs, Gyorgy, 4,651,261, Cl. 362-309.000.
Szekacs, Gyorgy, 4,654,758, Cl. 362-61.000.
Tunnell, George: Pomernacki, Charles L.; and Gregg, Jack P. Voice controlled welding system. 4,641,292, 2-3-87, Cl. 367-198.000.
Tunnell, George W.: *See*—
Kaiser, Bruce J.; Walker, Edward S.; Tunnell, George W.; and Masaitis, William, 4,701,621, Cl. 250-435.000.
Schoenig, Fred C., Jr.; McLemore, David R.; Patterson, Richard G.; and Tunnell, George W., 4,649,632, Cl. 29-701.000.
Tunnell, James H.: *See*—
Bernhagen, James R.; Crabb, Elmer R.; Murphy, Marilyn S.; Roley, Daniel G.; St. Germain, Gene R.; and Tunnell, James H., 4,700,794, Cl. 180-6.440.
Tunstall, John R., to Quixotic, Inc. Fishing lure system. 4,697,378, 10-6-87, Cl. 43-42.090.
Tunstall, Timothy F. Golf club. 4,695,054, 9-22-87, Cl. 273-171.000.
Tunstromer, Nils, to Stubinen Utveckling AB. Apparatus for and method of burning and/or thermally decomposing fuel, especially solid fuels. 4,693,234, 9-15-87, Cl. 126-155.000.
Tanturipyora Oy: *See*—
Hokajarvi, Mauri, 4,688,790, Cl. 272-73.000.
Kotamaki, Esko, 4,671,396, Cl. 192-41.005.
Rinkonen, Heikki, 4,679,816, Cl. 280-650.000.
Viander, Heikki, 4,664,371, Cl. 272-69.000.
Tunzini Nessi Entreprises d'Equipements: *See*—
Huard, Jean-Francois, 4,682,472, Cl. 62-3.000.
Tuomainen, Heikki: *See*—
Rautakorpi, Paavo; Manttari, Risto; Linnatainen, Heikki; Pernu, Heikki; Tuomainen, Heikki; and Rusanen, Hannu, 4,708,011, Cl. 73-63.000.
Tuomainen, Tapio, to Oy Lohja AB. Plate-shaped display structure. 4,686,418, 8-11-87, Cl. 313-512.000.
Tuomanen, Elaine, to Rockefeller University, The. Method for treating pertussis. 4,661,345, 4-28-87, Cl. 424-85.000.
Tuomi, Alpo: *See*—
Haapamaki, Pertti; and Tuomi, Alpo, 4,664,749, Cl. 162-56.000.
Tuomi, Roger L., to United States of America, Agriculture. Wooden building system with flange interlock and beams for use in the system. 4,677,806, 7-7-87, Cl. 52-656.000.
Tuomanen, Francis W.; Swanson, Ronald R.; Mattison, Phillip L.; MacKay, Kenneth D.; and Glorvigen, Bradley W., to Henkel Corporation. Extraction of amino acids from aqueous mixtures and quaternary ammonium salt intermediates produced therein. 4,661,606, 4-28-87, Cl. 548-497.000.
Tuommen, Francis W.; Maier, Helmut K.; and Howlesd, Warren W., to Henkel Corporation. Thickened alcoholic antimicrobial compositions. 4,695,453, 9-22-87, Cl. 424-81.000.
Tuor, Marcel F.: *See*—
Kunz, Rino E.; Junghans, Jurgen R.; Knus, Jean A.; Murbach, Urs; and Tuor, Marcel F., 4,713,537, Cl. 250-227.000.
Tuot, James, to Nestec S.A. Dryer and drying method. 4,702,799, 10-27-87, Cl. 159-48.100.
Tuovinen, Frans H., to Outokumpu Oy. Method and apparatus for manufacturing heat-resistant and/or fire-resistant fibre materials. 4,650,510, 3-17-87, Cl. 65-8.000.
Tupa, Robert C.: *See*—
Dorer, Casper J., Jr.; and Tupa, Robert C., 4,664,677, Cl. 44-68.000.
Tupitsyn, Konstantin K.; Tupitsyn, Sergei K.; Kostylev, Alexandr D.; Kamensky, Veniamin V.; and Chufistov, Sergei A., to Institut Gornogo Dela Sibirskogo Otdelenia Akademii Nauk SSSR. Percussive tool. 4,690,225, 9-1-87, Cl. 173-116.000.
Tupitsyn, Konstantin K.: *See*—
Shemyakin, Evgeny I.; Kamensky, Veniamin V.; Kostylev, Alexandr D.; Sudnishnikov, Boris V.; Tupitsyn, Sergei K.; Tupitsyn, Konstantin K.; Plavskikh, Vladimir D.; and Chepurnov, Nikolai P., 4,708,211, Cl. 175-19.000.
Tupitsyn, Sergei K.: *See*—
Shemyakin, Evgeny I.; Kamensky, Veniamin V.; Kostylev, Alexandr D.; Sudnishnikov, Boris V.; Tupitsyn, Sergei K.; Tupitsyn, Konstantin K.; Plavskikh, Vladimir D.; and Chepurnov, Nikolai P., 4,708,211, Cl. 175-19.000.
Tupitsyn, Konstantin K.; Tupitsyn, Sergei K.; Kostylev, Alexandr D.; Kamensky, Veniamin V.; and Chufistov, Sergei A., 4,690,225, Cl. 173-116.000.
Tupker, Hermann: *See*—
Achelpohl, Fritz; Winkler, Gerhard; Tupker, Hermann; and Linkies, Jurgen, 4,701,116, Cl. 425-72.00R.

Tupman, David J., to Caterpillar Industrial Inc. Optical seat switch. 4,683,373, 7-28-87, Cl. 250-221.000.
Tupman, David J., to Caterpillar Industrial Inc. Optical communication apparatus for a vehicle. 4,691,385, 9-1-87, Cl. 455-607.000.
Tupper, Alan W.; and Flux, Peter R. Releasable locking coupling or support device. 4,644,617, 2-24-87, Cl. 24-611.000.
Tupper, Robert B. *See*—
Sievers, Robert K.; Cooper, Martin H.; and Tupper, Robert B., 4,698,200, Cl. 376-233.000.
Tur, Moshe: *See*—
Brooks, Janet L.; Tur, Moshe; Youngquist, Robert C.; Kim, Byoung Y.; Wentworth, Robert H.; Shaw, Herbert J.; and Blotekjaer, Kjell, 4,699,513, Cl. 356-345.000.
Turano, Louis R.; Callaham, William T.; Sherwood, John F.; and Thatcher, Richard E., to Philip Morris Incorporated. Method and apparatus for producing cigarette filler. 4,696,312, 9-29-87, Cl. 131-109.100.
Turano, Louis R.: *See*—
Thatcher, Richard E.; and Turano, Louis R., 4,646,759, Cl. 131-110.000.
Turban, Karlheinz: *See*—
Rademachers, Jakob; Turban, Karlheinz; Franz, Gerhard; Fuhr, Werner; and Holle, Bernd, 4,681,637, Cl. 106-304.000.
Turbe, Jean-Pierre, to Societe Nationale des Chemins de Fer Francais, and Matix Industries. Process and device for the automatic recognition and detection of discontinuities and irregularities in the rails of railroad tracks. 4,662,224, 5-5-87, Cl. 73-636.000.
Turbe, Jean Pierre, to Societe Nationale des Chemins de Fer Francais. Method and apparatus for the non-destructive testing of railroad track rails. 4,689,995, 9-1-87, Cl. 73-636.000.
Turbe, Jean-Pierre, to Matix Industries. Ultrasonic detection method of the internal defects of a railroad track rail located in the sides of the head of said rail and device to carry it out. 4,700,574, 10-20-87, Cl. 73-636.000.
Turbe, Jean-Pierre: *See*—
Prasil, Bernard; and Turbe, Jean-Pierre, 4,700,564, Cl. 73-146.000.
Turbo Coils Inc.: *See*—
Nunn, John O., Sr.; and Nunn, John O., Jr., 4,702,086, Cl. 62-113.000.
Turbo-Luft-Technik GmbH: *See*—
Kolb, Werner, 4,673,331, Cl. 415-53.00R.
Turbo Refrigerating Company: *See*—
Hagen, William F., 4,651,537, Cl. 62-320.000.
Turbo Tek Enterprises, Inc.: *See*—
Proctor, Rudy R.; and Reinstein, Fred M., 4,682,734, Cl. 239-315.000.
Turbo's Investigacion Energetica: *See*—
Valencia, Alvaro G., 4,677,957, Cl. 123-572.000.
Turbotech, Inc.: *See*—
Berg, Paul H., 4,657,476, Cl. 415-48.000.
Turc, Gerard: *See*—
Massit, Claude; Nicolas, Gerard; and Turc, Gerard, 4,684,181, Cl. 439-59.000.
Turchan, Manuel C. Combined hole making and threading tool. 4,651,374, 3-24-87, Cl. 10-140.000.
Turchi, Sergio; and Filippi, Renato, to Weber S.p.A. Azienda Altecna. Device for controlling fuel injection apparatus in diesel engines. 4,709,680, 12-1-87, Cl. 123-467.000.
Turchi, Sergio: *See*—
Filippi, Renato; and Turchi, Sergio, 4,699,112, Cl. 123-506.000.
Turchin, Viktor P.: *See*—
Golubenko, Alexandr L.; Turchin, Viktor P.; Konyaev, Alexei N.; Sukhov, Igor N.; Kaljuzhny, Nikolai N.; Filonov, Arkady S.; Kotropets, Alexei P.; Pinovsky, Mikhail I.; Tkachenko, Viktor P.; and Kramar, Nikolai M., 4,635,990, Cl. 295-11.000.
Turco, Deborah A.: *See*—
Turco, Josephine M.; and Turco, Deborah A., 4,708,866, Cl. 424-61.000.
Turco Incorporated Company: *See*—
Baynes, William R.; and Merrick, Richard H., 4,676,221, Cl. 126-41.00R.
Turco, Josephine M.; and Turco, Deborah A. Artificial nail composition. 4,708,866, 11-24-87, Cl. 424-61.000.
Turco Purex Industrial Corp.: *See*—
Hackett, Walter; and Galena, Peter E., 4,704,429, Cl. 524-560.000.
Turcott, James L.; and Matheny, Rodney C. Anchor bolt installation tool with depth stop. 4,637,539, 1-20-87, Cl. 227-156.000.
Turcsanyi, Peter: *See*—
Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo; and Heil, Balint, 4,710,323, Cl. 260-543.00R.
Turczanski, Henry: *See*—
Hill, John; Bannister, Royston W.; and Turczanski, Henry, 4,701,735, Cl. 335-282.000.
Turek, James D.: *See*—
Kirkup, Thomas J.; and Turek, James D., 4,651,911, Cl. 225-20.000.
Turek, Philip A.: *See*—
Cahill, Richard F.; Eck, Jeffrey A.; Schwantz, Gerald L.; Theriault, John P.; Turek, Philip A.; Udd, Eric; Wagoner, Raymond E.; and Wanser, Keith H., 4,712,306, Cl. 33-304.000.
Turi, Raymond A.: *See*—
Lockwood, George C.; Topich, James A.; Turi, Raymond A.; and Maggard, George H., 4,683,554, Cl. 365-185.000.
Turiansky, Ladislav: *See*—
Blaskovits, Pavol; Lesnak, Stefan; Martisik, Alojz; Zajac, Jan; Slavkovsky, Jan; Turiansky, Ladislav; and Levius, Rudolf, 4,707,581, Cl. 219-73.110.
Turin, Paul S.; Teslawski, Georg; and Tight, Dexter C., Jr., to Spectra-Physics, Inc. Apparatus for changing the direction of a light beam passing through an articulated joint. 4,667,081, 5-19-87, Cl. 215-121.0LV.
Turk, Gijsbertus W.: *See*—
De Wit, Hendrik J.; Brouha, Marcel; Enz, Ulrich E.; Jager, Kornelis; Van Der Borst, Albertus J. C.; and Turk, Gijsbertus W., 4,685,012, Cl. 360-125.000.
Turk, Gunther: *See*—
Muller, Karl-Hans; Neumuller, Matthias; and Turk, Gunther, 4,664,907, Cl. 424-52.000.
Muller, Karl-Hans; Neumuller, Matthias; and Turk, Gunther, 4,704,270, Cl. 424-49.000.
Muller, Karl-Hans; Neumuller, Matthias; and Turk, Gunther, 4,705,679, Cl. 424-52.000.
Turk, Herbert: *See*—
Schippers, Heinz; Schminski, Herbert; Turk, Herbert; Mayer, Klaus; and Busch, Hans-Jochen, 4,646,983, Cl. 242-43.00A.
Turk & Hillinger GmbH: *See*—
Hillinger, Ericlt, 4,644,140, Cl. 219-535.000.
Turk, Lance G.: *See*—
Zue, James R.; Turk, Lance G.; and Gerrans, Alfred W., 4,688,673, Cl. 209-552.000.
Turk, Peter: *See*—
Soni, Pravin L.; Farrar, Nigel R.; Turk, Peter; and Ruswendal, Christiaan J., 4,688,306, Cl. 29-25.350.
Turk, Wilfried; and Wessely, Herrmann, to Siemens Aktiengesellschaft. Printed circuit module. 4,654,753, 3-31-87, Cl. 361-388.000.
Turko, John W., to Michigan Consolidated Gas Company. Heating system. 4,669,656, 6-2-87, Cl. 237-53.000.
Turmag Turbo-Maschinen-AG, Suesse & Graefer: *See*—
Ebeling, Wolfgang; and Kolditz, Helmut, 4,705,120, Cl. 175-99.00.
Turn-Luckily Intl., Ltd.: *See*—
Chen, Sun C., 4,714,805, Cl. 200-16.00A.
Turn-N-Tame Inc.: *See*—
Fronius, Joe E., 4,685,165, Cl. 15-27.000.
Turnbull, Andrew A., to U.S. Philips Corporation. Thermal radiation detector. 4,704,534, 11-3-87, Cl. 250-338.000.
Turnbull, Michael D.; and Kay, Ian T., to Imperial Chemical Industries plc. Spiro morpholine compounds, compositions and insecticidal and nematocidal use. 4,696,926, 9-29-87, Cl. 514-230.000.
Turnbull, William E. Appliance for purifying water. 4,663,054, 7-28-87, Cl. 210-91.000.
Turnbull, William T.: *See*—
Smith, Glenn C.; Needham, James R.; and Turnbull, William T., 4,639,176, Cl. 411-468.000.
Turner, Albert H.: *See*—
Hayes, William V.; and Turner, Albert H., 4,643,735, Cl. 623-16.000.
Hayes, William V.; and Turner, Albert H., 4,705,519, Cl. 623-16.000.
Turner, Allan L. Satellite TV dish antenna support. 4,656,486, 4-7-87, Cl. 343-882.000.
Turner, Arthur A. Roller-ball structure. 4,641,539, 2-10-87, Cl. 273-128.00A.
Turner, Bernus G.: *See*—
Jensen, Arden T., Jr.; and Turner, Bernus G., 4,667,570, Cl. 91-420.000.
Turner, C. Warren, to Boeing Company, The. Shim gap probe. 4,649,752, 3-17-87, Cl. 73-760.000.
Turner, Carlton E.: *See*—
Bedford, John A.; Elsohly, Hala N.; Wilson, Marvin C.; and Turner, Carlton E., 4,696,819, Cl. 424-195.100.
Turner, Charles F. R.; and Wingfield, John V., to Prior Scientific Instruments Limited. Optical inspection device for inspecting an article surface. 4,640,578, 2-3-87, Cl. 350-239.000.
Turner, Charles W.: *See*—
Axford, Walter J.; Trumble, Francis R.; and Turner, Charles W., 4,680,591, Cl. 343-853.000.
Turner, Clarence C., to Ford Meter Box Company, Inc., The. Self-drilling valve. 4,682,624, 7-28-87, Cl. 137-318.000.
Turner, Craig W.: *See*—
Pasterchick, Harry, Jr.; and Turner, Craig W., 4,677,527, Cl. 361-395.000.
Turner, David: *See*—
Gritter, David J.; O'Neil, Walter K.; and Turner, David, 4,651,066, Cl. 318-139.000.
Turner, David C.: *See*—
Grunert, Kurt A.; Walker, Roger E.; Paton, Charles R.; Leone, David A.; and Turner, David C., 4,650,940, Cl. 200-144.00R.
Turner, David W.; Dixon, Andrew J.; Gehring, Karl A.; and Kemp-side, Michael, to Kevex Corporation. X-ray source apparatus. 4,713,833, 12-15-87, Cl. 378-119.000.
Turner, Edwin: *See*—
Cordes, William F., III; and Turner, Edwin, 4,677,043, Cl. 430-22.000.
Turner, Edwin C.: *See*—
Sanford, Lawrence; Stokley, Charles O.; and Turner, Edwin C., 4,648,448, Cl. 166-191.000.
Turner, Eleanor. Magnetic device for aiding scaled reproduction of pictorial images in needlework. 4,672,747, 6-16-87, Cl. 33-1.00K.

Turner, Eric B.: *See*—
Schroeder, Warren W., and Turner, Eric B., 4,705,114, Cl. 166-357.000.
Turner, Esther: *See*—
Berl, Marta N., and Turner, Esther, 4,694,844, Cl. 132-84.00R.
Turner, George S., to Diversitech Corporation. Roof walkway panel. 4,674,245, 6-23-87, Cl. 52-177.000.
Turner, Gerhard, to Saarbergwerke Aktiengesellschaft. Coal compactor rod retainer. 4,708,774, 11-24-87, Cl. 202-239.000.
Turner, Graham N.: *See*—
Bailey, John W., Hayter, Paul A., Mason, Brian R., and Turner, Graham N., 4,714,875, Cl. 324-73.0PC.
Turner, Harvey N., Jr., to Motorola, Inc. Adaptive impedance mismatch detector system. 4,647,871, 3-3-87, Cl. 330-298.000.
Turner, Harvey N., Jr., to Motorola, Inc. Impedance mismatch detector. 4,704,573, 11-3-87, Cl. 324-58.00R.
Turner, Harvey N., Jr.: *See*—
Garay, Oscar, Turner, Harvey N., Jr., and Balzano, Quirino, 4,661,992, Cl. 455-89.000.
Turner, Herman E., Jr., and Glowacki, Robert D., to Nordson Corporation. Multi-station viscous liquid distribution system. 4,682,710, 7-28-87, Cl. 222-63.000.
Turner, James A.: *See*—
Trzeciak, John R., and Turner, James A., 4,656,521, Cl. 358-231.000.
Turner, James E.: *See*—
Jacobson, Walter, Riggio, Stephen C., and Turner, James E., 4,711,852, Cl. 436-15.000.
Turner, James K., to Gaston County Dyeing Machine Company. Apparatus for wet processing a continuous traveling web of material. 4,702,092, 10-27-87, Cl. 68-53.000.
Turner, Jan R., Krupinski, Veronica M., Fukuda, David S., and Baltz, Richard H., to Eli Lilly and Company. Macrocin derivatives. 4,656,258, 4-7-87, Cl. 536-7.100.
Turner, Janet N. Method and composition for artificially tanning the human epidermis. 4,708,865, 11-24-87, Cl. 424-59.000.
Turner, Jerry: *See*—
Shikata, Hiroaki; Turner, Jerry; Hirotsu, Dennis O.; and Burnett, Susan E., 4,661,102, Cl. 604-385.00A.
Turner, Joe D. Awning support assembly. 4,640,332, 2-3-87, Cl. 160-46.000.
Turner, Joe L.: *See*—
Dale, Hedayat, Marsh, Charles H., and Turner, Joe L., 4,669,110, Cl. 379-165.000.
Turner, John A., to International Business Machines Corporation. Electron beam position control for color display. 4,635,107, 1-6-87, Cl. 358-68.000.
Turner, John M., and Redington, Dana J., to Allophonix, Inc. Multistate speech encoder and decoder. 4,704,730, 11-3-87, Cl. 381-36.000.
Turner, John T., and Christodoulou, Marios, to Victoria University of Manchester, The. Device for recovering oil floating on water. 4,642,195, 2-10-87, Cl. 210-242.300.
Turner, John W., Jr., to International Tool and Supply Company, Inc. Trash compactor. 4,656,937, 4-14-87, Cl. 100-100.000.
Turner, Kenneth R., and Ashe, James A. Suction device for use with tracheostomy tube. 4,673,398, 6-16-87, Cl. 604-264.000.
Turner, Larry G.: *See*—
Maxwell, Reginald R., Budzinski, Walter J., Kuttruff, Manfred K., Stanish, Lee S., and Turner, Larry G., 4,647,086, Cl. 285-342.000.
Turner, Larry R.: *See*—
Hull, John R., Lari, Robert J., Praeg, Walter F., and Turner, Larry R., 4,678,024, Cl. 164-503.000.
Turner, Loren J. Apparatus for underground insect and animal extermination. 4,637,161, 1-20-87, Cl. 43-130.000.
Turner, Louis H., III: *See*—
Stil, Jacob H., and Turner, Louis H., III, 4,671,806, Cl. 55-80.000.
Turner, Margaret L.: *See*—
Knox, William G., and Turner, Margaret L., 4,663,782, Cl. 2-104.000.
Turner, Melvyn E.: *See*—
Fox, Thomas J., Sata, Lawrence A., Savill, Robert F., Jr., Trapani, Richard D., and Turner, Melvyn E., 4,668,852, Cl. 219-76.140.
Turner, Michael J. B., Hanley, Michael, and Hartwell, Eric S., to National Research Development Corporation. Animal separator. 4,640,231, 2-3-87, Cl. 119-155.000.
Turner & Newall PLC: *See*—
Harding, John D., and Dolbear, Keith D., 4,663,368, Cl. 523-155.000.
Parker, Euan, 4,656,203, Cl. 523-155.000.
Turner, Nicholas J.; Ogden, Geoffrey A.; and Bridge, Richard S., to National Research Development Corporation. Dust extractor for drawframe. 4,642,852, 2-17-87, Cl. 19-236.000.
Turner, Norman L., and Pollock, John D., to Varian Associates, Inc. Method and apparatus for improved ion dose accuracy. 4,680,474, 7-14-87, Cl. 250-492.200.
Turner, O'Neal, Jr. Kit for extinguishing charcoal fires. 4,655,294, 4-7-87, Cl. 169-46.000.
Turner, Paul F., to BSD Corporation. System for irradiating living tissue, or simulations thereof. 4,633,875, 1-6-87, Cl. 128-422.000.
Turner, Paul F., to BSD Medical Corporation. Electric field probe. 4,638,812, 1-27-87, Cl. 128-804.000.
Turner, Paul F., to BSD Medical Corporation. Body passage insertable applicator apparatus for electromagnetic. 4,658,836, 4-21-87, Cl. 128-804.000.
Turner, Paul F., to BSD Medical Corporation. Apparatus and method for hyperthermia treatment. 4,669,475, 6-2-87, Cl. 128-399.000.
Turner, Paul F., to BSD Medical Corporation. System and method for creating hyperthermia in tissue. 4,672,980, 6-16-87, Cl. 128-804.000.
Turner, Paul F., to BSD Medical Corporation. Local current capacitive field applicator for interstitial array. 4,712,559, 12-15-87, Cl. 128-422.000.
Turner, Peter G.: *See*—
Hemming, David H., and Turner, Peter G., 4,661,229, Cl. 204-192.130.
Turner, Philip. Combination tic-tac-toe and question and answer game. 4,684,136, 8-4-87, Cl. 273-271.000.
Turner, Philip R. Electrical plug and socket assemblies. 4,660,913, 4-28-87, Cl. 339-49.00R.
Turner, Ralph E., Jr.: *See*—
Bilimoria, Bomi M.; Lewis, Herbert I.; Cook, Jerry A.; Turner, Ralph E., Jr., and Garner, Robert H., 4,693,427, Cl. 241-23.000.
Turner, Ralph W., Jr. Drum filter take-off. 4,673,496, 6-16-87, Cl. 210-232.000.
Turner, Reed F.: *See*—
Hagstrom, Gerald F.; Leemans, Daniel L.; and Turner, Reed F., 4,663,921, Cl. 56-14.600.
Turner, Reginald R. Hot-water-furnace supplemental heater. 4,681,257, 7-21-87, Cl. 237-56.000.
Turner, Richard T.: *See*—
Gruenstein, Eric I., and Turner, Richard T., 4,649,967, Cl. 141-59.000.
Turner, Robert. Providing of gases for an excimer laser. 4,674,098, 6-16-87, Cl. 372-59.000.
Turner, Robert B.; Peffley, Richard D.; and Vanderhider, James A., to Dow Chemical Company, The. Reaction injection molded polyureas employing high molecular weight amine-terminated polyethers. 4,642,320, 2-10-87, Cl. 521-176.000.
Turner, Robert B.; Peters, Kenneth D.; and Bennett, Richard W., to UOP Inc. Hydrocarbon-conversion process with fractionator overhead vapor recycle. 4,673,488, 6-16-87, Cl. 208-101.000.
Turner, Robert B., to Bobbie's Automatic Hair Shampooer, Inc. Shampooing apparatus. 4,674,902, 6-23-87, Cl. 401-43.000.
Turner, Robert B.; Peffley, Richard D.; Plepys, Raymond A.; Priester, Ralph D.; Gonzales, Manuel, Jr.; and Bushman, Kimbley A., to Dow Chemical Company, The. Polyurea polymers prepared from urea containing prepolymers. 4,656,242, 8-11-87, Cl. 521-137.000.
Turner, Robert B., to Dow Chemical Company, The. Polyurethanes reinforced with rigid rod micro fillers. 4,701,475, 10-20-87, Cl. 521-137.000.
Turner, Robert B.: *See*—
Hillshafer, Douglas K., and Turner, Robert B., 4,687,788, Cl. 521-163.000.
Mason, Stanley E., Jr.; Wolfe, Allan P.; and Turner, Robert B., 4,706,600, Cl. 118-31.500.
Turner, Robert E. Recycling of gases for an excimer laser. 4,674,099, 6-16-87, Cl. 372-59.000.
Turner, Robert F., Jr.: *See*—
Chin, Yi-Hua, and Turner, Robert F., Jr., 4,659,458, Cl. 209-164.000.
Turner, Roger M.; Swerdlow, Martin S.; and Bate, Bernard, to Imperial Chemical Industries. Prosthetic devices. 4,662,887, 5-5-87, Cl. 623-16.000.
Turner, Rudolf.: *See*—
Eilers, Carl G.; Lee, Ronald B.; and Turner, Rudolf, 4,688,246, Cl. 380-9.000.
Turner, S. Richard; and Yanus, John F., to Xerox Corporation. Aromatic aryl amine polymers. 4,714,779, 12-22-87, Cl. 564-330.000.
Turner, S. Richard: *See*—
Bock, Jan; Siano, Donald B.; and Turner, S. Richard, 4,694,046, Cl. 525-329.400.
Turner, Sam R., and Houle, Conrad G., to Eastman Kodak Company. High-temperature resistant photoresists featuring maleimide binders. 4,663,268, 5-5-87, Cl. 430-270.000.
Turner, Terry A. Door with raised panels. 4,702,054, 10-27-87, Cl. 52-311.000.
Turner, Terry A. Raised panel-style door. 4,704,834, 11-10-87, Cl. 52-311.000.
Turner, Vernon D.: *See*—
Stewart, Harold S.; Hansen, Donald F.; and Turner, Vernon D., 4,687,337, Cl. 356-437.000.
Turner, W. Bard: *See*—
Middlebrook, Robert B., and Turner, W. Bard, 4,638,295, Cl. 340-73.000.
Turner, Wayne O.: *See*—
Foote, Danny R., and Turner, Wayne O., 4,685,241, Cl. 43-18.500.
Turner, William D., to Xerox Corporation. Nonuniformity of fringe field correction for electro-optic devices. 4,636,039, 1-13-87, Cl. 350-356.000.
Turner, William H., and Slaughter, Ivan K., to Otis Engineering Corporation. Connector for well servicing system. 4,673,041, 6-16-87, Cl. 166-340.000.
Turner, William H.: *See*—
Johnson, David J.; McGinnis, Mark L.; Turner, William H.; and Slaughter, Ivan K., 4,667,986, Cl. 285-24.000.
Turner, William J.: *See*—
Doerman, Eryk S.; Turner, William J.; Homer, David A.; Stewart, Andrew D. G.; and Clarke, Ian, 4,696,358, Cl. 177-145.000.
Turner, William T.: *See*—
Lampo, Ciro S.; and Turner, William T., 4,650,607, Cl. 260-104.000.
Turney, Anthony W.: *See*—
Hughes, Richard L.; Turney, Anthony W.; and Look, Raymond J., 4,642,480, Cl. 307-147.000.

Turnipseed, Marion R. Method and means for cleaning fuel injection engines. 4,671,230, 6-9-87, Cl. 123-198.00A.
Turnpaugh, George F., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Programmable interval timer with lock means. 4,705,970, 11-10-87, Cl. 307-600.000.
Turoff, Robert; Gokcen, Cem M.; and Zdeb, Brian, to Baxter Travenol Laboratories, Inc. Container including inner closure with opening permitting free liquid flow. 4,655,355, 4-7-87, Cl. 215-32.000.
Turolla, Jean-Pierre; and Belin, Simone, to LCC-CICE-Compagnie Europeenne de Composants Electroniques. Filter contact and its use in electric connectors. 4,646,037, 2-24-87, Cl. 333-182.000.
Turowski, Lawrence E.: *See*—
Whiddon, Clifford R.; Flaherty, Daniel R.; and Turowski, Lawrence E., 4,657,066, Cl. 164-476.000.
Turpin, Edward T.; and Thrane, David T., to SCM Corporation. Acrylic and acrylic/epoxy copolymer composition as self-curing cathodic electrocoating vehicles. 4,639,299, 1-27-87, Cl. 204-181.700.
Turpin, Robert B.: *See*—
Daniels, Ronald; and Turpin, Robert B., 4,676,729, Cl. 425-337.000.
Turrill, Frank H.: *See*—
Sawran, William R.; Turrill, Frank H.; Newman, John W.; Hall, Norman W.; and Ward, Clifford, 4,671,864, Cl. 208-22.000.
Turro, Juan G. Cigarette holder. 4,709,706, 12-1-87, Cl. 131-240.100.
Turtle, Ivan R.; and Angell, Cyril N. E., to Avon Industrial Polymers Limited. Buckles with structure to allow unidirectional movement of strap. 4,674,155, 6-23-87, Cl. 24-170.000.
Turtle Wax, Inc.: *See*—
Kornhaber, Harvey; Heiuel, James P.; and Varga, Stephen L., 4,665,116, Cl. 524-268.000.
Turton, John A.: *See*—
Saleh, Lotfy L.; Turton, John A.; and Matthews, Steven L., 4,642,860, Cl. 28-269.000.
Turturro, Michael, and Rossi, Attilio, to Hantscho, Inc. Metering roll system for printing press. 4,656,940, 4-14-87, Cl. 101-350.000.
Turukhano, Boris G. Apparatus for copying holographic diffraction gratings. 4,715,670, 12-29-87, Cl. 350-3.690.
Turunen, Olli T.; Huttenen, Jouko; Selin, Johan-Fredrik; Fors, Jan; and Eklund, Vidar, to Neste OY. Cyclic process for producing an alkali solution of ceilulose carbamate and precipitating the carbamate. 4,639,514, 1-27-87, Cl. 536-30.000.
Turunen, Olli T.; Huttunen, Jouko; Selin, Johan-Fredrik; Fors, Jan; and Eklund, Vidar, to Neste OY. Cyclic process for producing an alkali solution of cellulose carbamate and precipitating the carbamate. 4,639,515, 1-27-87, Cl. 536-30.000.
Tury, Keith A.; and Evans, Ronald D., to Brunswick Corporation. Expandable soft side shelter. 4,649,947, 3-17-87, Cl. 135-97.000.
Tury, Keith A.; and Evans, Ronald D., to Brunswick Corporation. Expandable soft side shelter. 4,667,692, 5-26-87, Cl. 135-105.000.
Turznik, Gerhard: *See*—
Woerner, Frank P.; Neumann, Peter; Mahnke, Harald; Lamprecht, Josef; Horn, Dieter; Turznik, Gerhard; Kraus, Friedrich; Kaeppel, Hanshelmut; and Heim, Eduard, 4,666,948, Cl. 521-105.000.
Tusco Manufacturing Co.: *See*—
Everett, Lynn E., 4,668,030, Cl. 312-257.00R.
Everett, Lynn E., 4,684,094, Cl. 248-245.000.
Tuse, Daniel: *See*—
Casey, Irene; and Tuse, Daniel, 4,678,658, Cl. 424-7.100.
Tuseth, Robert D. Clamp for regulating flow of parenteral solutions. 4,697,785, 10-6-87, Cl. 251-9.000.
Tusinski, Joseph; and Mathews, Herbert H., to Coburn Optical Industries, Inc. Blocked lens thickness gauge. 4,674,190, 6-23-87, Cl. 33-172.00R.
Tuske, Marton: *See*—
Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, 4,695,309, Cl. 71-88.000.
Bordas, Barna; Gimesi, Antal; Kovacs nee Kalman, Magda; Janos, Eva; Matolcsy, Gyorgy; and Tuske, Marton, 4,695,313, Cl. 71-100.000.
Tuss, John J.; and Donaldson, Robert D., to Warner & Swasey Company, The. Coordinate measuring machine. 4,682,418, 7-28-87, Cl. 33-1.00M.
Tuss, John J.: *See*—
Orr, Ladd J.; and Tuss, John J., 4,680,868, Cl. 33-503.000.
Tussosov, Wassil D.: *See*—
Schwab, Carl; Odegaard, Oliver C.; and Tussosov, Wassil D., 4,689,623, Cl. 342-39.000.
Tustaniwskyj, Jerry I.; and Corey, Philip D., to Unisys Corporation. Method of testing wire bonds for defects using a magnetic field. 4,677,370, 6-30-87, Cl. 324-51.000.
Tustaniwskyj, Jerry I.; and Halkola, Kyle G., to Unisys Corporation. Leak tolerant liquid cooling system. 4,698,728, 10-6-87, Cl. 361-385.000.
Tusting, Robert F., to Harbor Branch Oceanographic Institution Inc. Submersible knotmeters. 4,676,097, 6-30-87, Cl. 73-187.000.
Tusting, Robert F., to Harbor Branch Oceanographic Institution Inc. Apparatus and method of submarine optical recording. 4,707,094, 11-17-87, Cl. 354-64.000.
Tuszynski, Alfons A., to University of Minnesota, Regents of the. Circuit for high impedance broad band probe. 4,646,002, 2-24-87, Cl. 324-72.500.
Tuszynski, William J.: *See*—
Felgendreger, Alfred F.; Nevers, Ashley D.; and Tuszynski, William J., 4,650,553, Cl. 204-114.000.
Tutco, Inc.: *See*—
Howard, H. Keith; and Sherrill, Jimmy L., 4,692,590, Cl. 219-532.000.
Sherrill, Jimmy L., 4,675,511, Cl. 219-532.000.
Tuteja, Balbir S.: *See*—
Adlam, Arthur H.; Wittbrodt, Donald R.; Scully, Andrew J.; Smith, Roger R.; Tuteja, Balbir S.; Currier, Theodore R.; George, Rita M.; Yopp, Roger W.; and Hussaini, Syed M., 4,671,162, Cl. 89-1.130.
Tuten, James M.: *See*—
Harrison, Harold D.; and Tuten, James M., 4,701,866, Cl. 364-550.000.
Tuthill Corporation: *See*—
O'Connell, Timothy B., 4,666,330, Cl. 403-143.000.
Sarson, Charles R., 4,676,269, Cl. 137-614.060.
Tutikawa, Yosuji. Flat sliding door unit. 4,697,384, 10-6-87, Cl. 49-130.000.
Tutikawa, Yosuji. Flat sliding door unit. 4,704,819, 11-10-87, Cl. 49-129.000.
Tutoespresso s.r.l.: *See*—
Baecchi, Alfredo; Bozzolini, Aldo; Santoni, Tancredo; and Mori, Carlo, 4,646,626, Cl. 99-275.000.
Tuttle, Bruce A.: *See*—
Brooks, Robert A.; Dosch, Robert C.; and Tuttle, Bruce A., 4,681,717, Cl. 264-61.000.
Tuttle, Francis M.: *See*—
Rugh, Clyde J.; King, John L., Jr.; Tuttle, Francis M.; and Jones, William E., 4,660,404, Cl. 72-448.000.
Rugh, Clyde J.; King, John L., Jr.; Tuttle, Francis M.; and Jones, William E., 4,660,406, Cl. 72-448.000.
Tuttle, James N., Jr.; and Jaboin, Olyn P., to LEA Manufacturing Company, The. Corrosion resistant coating. 4,673,445, 6-16-87, Cl. 148-6.15R.
Tuttle, Wainwright. Filter test method and apparatus. 4,676,092, 6-30-87, Cl. 73-38.000.
Tuttle, William E. Cleat and device therefor. 4,690,090, 9-1-87, Cl. 114-218.000.
Tuuha, Rolf, to Rauma-Repola Oy. Chip screen whose screen basket has been divided into two sections. 4,647,370, 3-3-87, Cl. 209-315.000.
Tuvell, James A.; and Smayling, Michael C., to Texas Instruments Incorporated. Modified four transistor EEPROM cell. 4,695,979, 9-22-87, Cl. 365-185.000.
Tuvell, James A.; and Smayling, Michael C., to Texas Instruments Incorporated. Modified three transistor EEPROM cell. 4,715,014, 12-22-87, Cl. 365-185.000.
Tuy, Heang K.; and Koka, Narasimharao, to Picker International Inc. Malfunctioning computed tomography detector correction method. 4,712,178, 12-8-87, Cl. 364-414.000.
Tuzita, Kenzi: *See*—
Kishi, Ken-ichi; Tuzita, Kenzi; Dadeji, Tamio; Okuyama, Yuji; and Kimura, Kiyoshi, 4,675,268, Cl. 430-126.000.
Okuyama, Yuji; Kishi, Kenichi; Tuzita, Kenzi; and Ban, Tsuyoki, 4,654,287, Cl. 430-106.600.
Tvengsberg, Nils, to Norca Industries Limited. Recreational pool, 4,642,822, 2-17-87, Cl. 4-488.000.
Tveryanovich, Eduard V.: *See*—
Afian, Viktor V.; Vartanian, Albert V.; Martirosian, Ruben O.; Ryabikov, Stanislav V.; Strebkov, Dmitry S.; and Tveryanovich, Eduard V., 4,691,994, Cl. 350-320.000.
Tveten, Alan B.: *See*—
Frigo, Nicholas J.; Dandridge, Anthony; and Tveten, Alan B., 4,653,915, Cl. 356-345.000.
Tveter, Richard S.; and Miller, Wayne A., to S. Himmelstein and Company. Leak tester. 4,715,214, 12-29-87, Cl. 73-49.200.
Tveter, Richard S.: *See*—
Himmelstein, Sydney; and Tveter, Richard S., 4,651,573, Cl. 73-862.360.
TVI Energy Corporation: *See*—
Rosa, Stephen P., 4,659,089, Cl. 273-348.100.
TVI Systems, Ltd.: *See*—
Bedinu, John C., 4,644,422, Cl. 360-60.000.
Twardowski, Zbigniew, to Tenneco Canada Inc. Acid recovery in chlorine dioxide generation. 4,678,655, 7-7-87, Cl. 423-478.000.
Twardowski, Zbigniew; and McGilvery, James D., to Tenneco Canada Inc. (ERCO division). Membrane pervaporation process. 4,683,039, 7-28-87, Cl. 204-95.000.
Twardowski, Zbigniew, to Tenneco Canada Inc. (ERCO division). Removal of arsenic from acids. 4,692,228, 9-8-87, Cl. 204-105.000.
Twardowski, Zbylut J.; Nolph, Karl D.; and Khanna, Ramesh, to University of Missouri, Curators of the. Peritoneal dialysis catheter. 4,687,471, 8-18-87, Cl. 604-175.000.
Twardzik, Daniel R.; and Todaro, George J., to ONCOGEN. Platelet related growth regulator. 4,645,828, 2-24-87, Cl. 530.324.000.
Tweco Products, Inc.: *See*—
Cusick, Joseph B., III; and Raney, Ty A., 4,702,539, Cl. 439-588.000.
Twedt, Lynn O.: *See*—
McQueen, Coy E.; Twedt, Lynn O.; and Thurnau, Edwin R., 4,637,446, Cl. 160-207.000.
Tweedy of Burnley Limited: *See*—
Pivonka, Josef K., 4,634,363, Cl. 425-306.000.
Pivonka, Joseph K., 4,666,726, Cl. 426-302.000.
Twellmann, Guenter, to Ninkaplast GmbH. Rotatable shelf insert for corner cupboards. 4,693,188, 9-15-87, Cl. 108-139.000.

Twemlow, Richard M.: *See*—
Irlam, Geoffrey; Lowry, Michael R.; and Twemlow, Richard M., 4,666,624, Cl. 252-134.000.

Twerdochlib, Michael, to Westinghouse Electric Corp. Distributed temperature sensor apparatus. 4,676,665, 6-30-87, Cl. 374-152.000.

Twibell, John D.: *See*—
Kind, Stuart S.; Sanger, David G.; Twibell, John D.; and Hargraves, John, 4,640,035, Cl. 40-625.000.

Twiefel, Gunther: *See*—
Friedericks, Karl-Heinz; and Twiefel, Gunther, 4,693,665, Cl. 414-744.00R.

Twiflex Limited: *See*—
Stewart, John; and Brown, George M., 4,697,671, Cl. 188-72.900.

Twin City International, Inc.: *See*—
Spongr, Jerry J.; and Sawyer, Byron E., 4,656,357, Cl. 250-359.100.

Twin City Surgical, Inc.: *See*—
Amundsen, Louis R.; Patterson, Robert P.; Baxter, Tanya L.; Scudder, Glenn N.; Duescher, Wayne O.; Dahlmeier, Willis E.; Schukar, Gary W.; and Steinback, Clarence I., 4,702,108, Cl. 73-379.000.

Twin Disc, Incorporated: *See*—
White, Basil, 4,635,495, Cl. 74-364.000.

Twinoak Products, Inc.: *See*—
Meloy, Gilbert S., 4,668,475, Cl. 422-37.000.

Twistee Treat Corporation: *See*—
Fiedler, Armin, 4,659,575, Cl. 426-317.000.

Twizell, Norman: *See*—
Swinney, Denis P.; Twizell, Norman; and Fergusson, Charles W., 4,671,495, Cl. 210-275.000.

2 M Security Systems APS: *See*—
Maimann, Mogens; and Svendsen, Bent, 4,635,041, Cl. 340-572.000.

Twogood, Rodney L.; Wright, Raymond L.; and Rawle, Roger D., to Burlington Northern Railroad Co. Cylinder liner sleeve puller. 4,707,900, 11-24-87, Cl. 29-244.000.

Twomey, Alan. Tubing. 4,666,186, 5-19-87, Cl. 285-14.000.

Tybar Engineering Pyt. Ltd.: *See*—
Bartlett, Ian G.; and Lymer, Donald A., 4,678,533, Cl. 156-435.000.

Tye, Gene: *See*—
Hickin, Charles W. R.; and Tye, Gene, 4,698,489, Cl. 235-407.000.

Tye, Richard J.; Lauterbach, George E.; and Standel, Philip R., to FMC Corporation. Aircraft anti-icing fluid containing carrageenan. 4,698,172, 10-6-87, Cl. 252-70.000.

Tyer, Robert R. Fine bubble diffuser and diffuser system having filtered blow-down tube. 4,639,314, 1-27-87, Cl. 210-220.000.

Tyhach, Richard J.: *See*—
Greenquist, Alfred C.; Li, Thomas M.; Rupchock, Patricia A.; Tyhach, Richard J.; and Walter, Bert, 4,668,619, Cl. 435-7.000.

Tyhurst, John R.: *See*—
Bramerd, Henry A.; Wilkerson, Charles W.; and Tyhurst, John R., 4,688,589, Cl. 137-13.000.

Tyihak, Erno; Mincsovics, Emil; Zoltan, Sandor; Kemeny, Gabor; Mathuny, Aniko; Szekely, Tibor; Nemeth, Sandor; Antal, Zsuzsanna; and Faier, Zsuzsanna, to Reanal Finomvegyszergyar; and "Labor" Muszeripari Muvek. Polyacrylamide adhesive for fixing the sorbent layers of overpressured, one-and multilayer-chromatographic plates and a process for the preparation thereof. 4,658,000, 4-14-87, Cl. 526-217.000.

Tyihak, Erno: *See*—
Meszaros, Sandor; Verzar-Petri, Gisela; Nyiredy-Mikita, Klara; Tyihak, Erno; Nyiredy, Szabolcs; Meier, Beat; Sticher, Otto; and Dallenbach-Toelke, Karin, 4,678,570, Cl. 210-198.200.

Szekely, Tibor; Tyihak, Erno; Mincsovics, Emil; Remenyi nee Korodi, Zsuzsa; Peterfi, Laszlo; Kemeny, Gabor; and Takacs, Gabor, 4,671,871, Cl. 210-198.300.

Tompa, Ildiko F.; Nagy, Attila; Tyihak, Erno; Nyiredy, Szabolcs; Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida, Laszlo; Mincsovics, Emil; Kemeny, Gabor; and Baranyi, Piroska, 4,671,870, Cl. 210-149.000.

Tyjenski, Gerard M.: *See*—
Allgaier, Wayne F.; Tyjenski, Gerard M.; and Di Natale, Claude A., 4,684,432, Cl. 156-500.000.

Tykulsky, Alexander; Thiele, Karl E.; and Halberg, Leslie I., to Hewlett-Packard Company. Extending sample volume in pulsed Doppler systems. 4,640,292, 2-3-87, Cl. 128-661.000.

Tyldesley, Roger: *See*—
Berglund, Robert K.; Mautz, Karl E.; and Tyldesley, Roger, 4,698,128, Cl. 156-643.000.

Tyler, Derek E.: *See*—
Gaule, Gerhart K.; Yarwood, John C.; Ungarean, Gary L.; and Tyler, Derek E., 4,674,557, Cl. 164-467.000.

Tungatt, Paul D.; Tyler, Derek E.; and Cheskis, Harvey P., 4,708,740, Cl. 75-76.000.

Young, Kenneth P.; Tyler, Derek E.; Cheskis, Harvey P.; and Watson, W. Gary, 4,709,746, Cl. 164-485.000.

Tyler, John E.: *See*—
Ovshinsky, Stanford R.; Keem, John E.; Flasck, James D.; Bergeron, Richard C.; and Tyler, John E., 4,645,715, Cl. 428-469.000.

Tyler, Keith A.: *See*—
Johnson, David W.; and Tyler, Keith A., 4,634,409, Cl. 474-152.000.

Tyler, Lawson J.; and Worsey, Paul N., to University of Missouri, The Curators of the. Integrated detonator delay circuits and firing console. 4,674,047, 6-16-87, Cl. 364-423.000.

Tyler, Michael C.: *See*—
Holmes, Richard E.; Mays, Joe A.; and Tyler, Michael C., 4,687,973, Cl. 315-371.000.

Tyler, Stephen L.: *See*—
Bivens, Jon A.; and Tyler, Stephen L., 4,699,321, Cl. 239-204.000.
Grizzle, Glen; Tyler, Stephen L.; and Walto, Joseph J., 4,634,052, Cl. 239-205.000.

Tyler, Truman V. Self-contained hydraulically operable water purifier. 4,695,375, 9-22-87, Cl. 210-110.000.

Tylisz, Eugene R.; and Johnstone, Bradford, to Pullman Standard Inc. Axle stabilizer for railway truck. 4,651,650, 3-24-87, Cl. 105-218.200.

Tylko, Jozef K.; Govaerts, Marcel K.; and Dompas, John M. A. Plasma cutting system. 4,670,640, 6-2-87, Cl. 219-121.0PC.

Tylor, Richard E.: *See*—
Campbell, Bruce D.; Triplett, James T.; and Tylor, Richard E., 4,664,732, Cl. 156-158.000.
Campbell, Bruce D.; Triplett, James T.; and Tylor, Richard E., 4,679,907, Cl. 350-320.000.

Tyman, John H. P., to Brunel University. Metal extraction using a novel group of compounds and chemical purification method. 4,697,038, 9-29-87, Cl. 564-265.000.

Tymco, Inc.: *See*—
Veselka, Kenneth R., 4,691,402, Cl. 15-87.000.
Young, Gary B., 4,660,248, Cl. 15-340.000.

Tymon, Thomas M., to Armstrong World Industries, Inc. Flocced mineral materials and water-resistant articles made therefrom. 4,707,298, 11-17-87, Cl. 252-378.00R.

Tynkkynen, Pertti: *See*—
Wallgren, Matti; and Tynkkynen, Pertti, 4,641,824, Cl. 270-31.000.

Tyo, James H. Pelvic stabilization device. 4,696,291, 9-29-87, Cl. 128-78.000.

Typpi, Richard M. Seed planter. 4,653,410, 3-31-87, Cl. 111-1.000.

Typrowicz, Wladyslaw: *See*—
Gillespie, David A.; Harrell, Gary R.; and Typrowicz, Wladyslaw, 4,676,277, Cl. 139-1.00C.

Tyree, Lewis, Jr., to Liquid Carbonic Corporation. Remote cooling CO_2 applications. 4,693,737, 9-15-87, Cl. 62-10.000.

Tyree, Lewis, Jr., to Liquid Carbonic Corporation. Production of large quantities of CO_2 snow. 4,695,302, 9-22-87, Cl. 62-10.000.

Tyrell, John A., and Freimiller, Gary L., to General Electric Company. Polycarbonate end capped with vinylene carbonate compound. 4,661,567, 4-28-87, Cl. 525-468.000.

Tyrell, John A.: *See*—
McCready, Russell J.; and Tyrell, John A., 4,711,933, Cl. 525-415.000.
McCready, Russell J.; and Tyrell, John A., 4,711,947, Cl. 528-288.000.
McCready, Russell J.; and Tyrell, John A., 4,711,948, Cl. 528-288.000.
McCready, Russell J.; and Tyrell, John A., 4,714,753, Cl. 528-288.000.
McCready, Russell J.; and Tyrell, John A., 4,714,754, Cl. 528-288.000.
McCready, Russell J.; and Tyrell, John A., 4,714,755, Cl. 528-288.000.

Tyrens Foretagsgrupp AB: *See*—
Haggbom, Sune; Nylund, Per O.; and Lind, Arne, 4,676,433, Cl. 236-10.000.

Tyron, Inc.: *See*—
White, Basil D., 4,694,874, Cl. 152-381.500.

Tysoe, Nicholas W.: *See*—
Inglis, Peter J.; and Tysoe, Nicholas W., 4,644,455, Cl. 362-309.000.

Tyson, Ben B.: *See*—
Huffman, John W.; Picht, Brian J.; and Tyson, Ben B., 4,684,273, Cl. 400-247.000.

Tyson, George K.: *See*—
Campbell, Kent D.; Dietsche, Laura J.; Crampton, Lee B.; Hovda, Keith D.; Tyson, George K.; and Wilson, Charles A., 4,713,231, Cl. 423-356.000.

Tyson, Robert G.: *See*—
Ballenegger, Marc E.; Rimbault, Christian G.; Albert, Alban L.; Weith, Andre J.; Courbat, Pierre; Tyson, Robert G.; Palmer, Derek R.; and Thompson, David G., 4,644,011, Cl. 514-456.000.

Tyson, William H., to Mills, John G., a part interest. Grill means. 4,638,787, 1-27-87, Cl. 126-25.00R.

Tyson, William H. Grill means. 4,706,643, 11-17-87, Cl. 126-25.00R.

Tysse, Thomas M. Oral evacuation device and method. 4,695,253, 9-22-87, Cl. 433-136.000.

Tysver, John, to Sundstrand Corporation. Torque limiting apparatus. 4,693,349, 9-15-87, Cl. 192-7.000.

Tytgat, Daniel; Lefevre, Pierre; and Marechal, Michel, to Solvay & Cie (Societe Anonyme). Baths and process for the chemical polishing of steel surfaces. 4,652,340, 3-24-87, Cl. 156-664.000.

Tytgat, Daniel; and Lefevre, Pierre, to Solvay & Cie. (Societe Anonyme). Baths and process for chemical polishing of stainless steel surfaces. 4,678,541, 7-7-87, Cl. 156-664.000.

Tytronix Corporation: *See*—
Frey, Ronald G., 4,713,811, Cl. 371-9.000.

Tzabanakis, Georges: *See*—
Tremblay, Paul; and Tzabanakis, Georges, 4,635,989, Cl. 294-102.100.
Tremblay, Paul; and Tzabanakis, Georges, 4,691,988, Cl. 350-96.230.

Tzen, Ching B.: *See*—
Pan, Shyh J.; Tzen, Ching B.; and Liang, Tzu P., 4,641,436, Cl. 33-483.000.

Tzeng, J. C.: *See*—
Baerg, William; Ting, Chiu H.; Siu, Byron B.; and Tzeng, J. C., 4,700,454, Cl. 437-24.000.

Tzeng, Wen-Shian V., to Chomerics, Inc. Electromagnetic shielding. 4,678,716, 7-7-87, Cl. 428-551.000.

Tzonev, Ognian N.: *See—*
Delchev, Nedelko E.; and Tzonev, Ognian N., 4,698,965, Cl. 60-227.000.

Tzora Furniture Industries Ltd.: *See—*
Lapid, Aharon M., 4,702,719, Cl. 446-227.000.
Waisbrod, Neville, 4,636,106, Cl. 403-228.000.

Tzou, Kou-Hu, to GTE Laboratories Incorporated. Progressive image transmission. 4,698,689, 10-6-87, Cl. 358-260.000.

Tzou, Ming S.: *See—*
Pinnavaia, Thomas J.; and Tzou, Ming S., 4,665,044, Cl. 502-84.000.
Pinnavaia, Thomas J.; Tzou, Ming S.; and Landau, Steven D., 4,665,045, Cl. 502-84.000.

Tzou, Ming-Shin: *See—*
Sachtler, Wolfgang M. H.; Tzou, Ming-Shin; and Jiang, Hui-Jong, 4,654,317, Cl. 502-74.000.

U C B Societe Anonyme: *See—*
Gobert, Jean; Geerts, Jean-Pierre; and Bodson, Guy, 4,696,943, Cl. 514-424.000.

U.C.P.I. Societe pour l'Utilisation des Ceramiques et des Platres dans l'Industrie: *See—*
Broihanne, Georges; and Magnier, Pierre, 4,700,768, Cl. 164-361.000.

U.S.D. Corp: *See—*
Faulconer, Mark; and Greatrake, Scott E., 4,694,772, Cl. 114-315.000.

U.S.D. Corp.: *See—*
Hansen, Harmon R.; and Lingenfelter, Thomas A., 4,683,881, Cl. 128-204.260.

U-Seal-It Vending Co., Inc.: *See—*
Rachman, Isadore B., 4,702,392, Cl. 221-151.000.

Uarco Incorporated: *See—*
Schmidt, Eric R., 4,696,843, Cl. 428-41.000.

Uba, Toshio; and Nelson, Robert F., to Gates Energy Products, Inc. Sealed lead-acid cell. 4,637,966, 1-20-87, Cl. 429-57.000.

Uba, Toshio; and Nelson, Robert F., to Gates Energy Products, Inc. Method for producing a sealed lead-acid cell. 4,648,177, 3-10-87, Cl. 29-623.200.

Ubbens, Henricus D. U.; and Langeveld, Peer, to U.S. Philips Corporation. Method of interconnecting conductors of different layers of a multilayer printed circuit board. 4,663,840, 5-12-87, Cl. 29-853.000.

Ube Chemical Industries Co., Ltd.: *See—*
Yamamoto, Kosei; Kaneyasu, Akira; and Arita, Yo, 4,681,863, Cl. 501-108.000.

Ube Industries, Ltd.: *See—*
Akegi, Seiji, 4,708,016, Cl. 73-149.000.
Ashitaka, Hidetomo; Jinda, Kazuya; and Miwa, Yoshiyuki, 4,684,717, Cl. 534-586.000.
Ashitaka, Hidetomo; Jinda, Kazuya; and Miwa, Yoshiyuki, 4,684,718, Cl. 534-586.000.
Dannoura, Sadayuki, 4,655,274, Cl. 164-341.000.
Dannoura, Sadayuki, 4,690,197, Cl. 164-312.000.
Hamamoto, Toshikazu; Aoi, Motojirou; Yoshida, Kozaburo; and Toda, Yasuhiko, 4,677,026, Cl. 428-404.000.
Hiroyoshi, Toshiki, 4,678,468, Cl. 623-1.000.
Honda, Masahiro; and Maeda, Hironari, 4,712,961, Cl. 414-42.000.
Ito, Bunsaku; Fukuda, Kimio; and Hara, Rikio, 4,690,856, Cl. 428-215.000.
Iwata, Fumio; Harada, Katsumasa; and Sugise, Ryoji, 4,665,172, Cl. 540-544.000.
Kamei, Eiichi; Shimomura, Yasushi; and Yamanaka, Mitsuo, 4,654,265, Cl. 428-398.000.
Kobayashi, Waichi; Akegi, Seiji; and Iwata, Kazuhiro, 4,701,222, Cl. 106-288.00B.
Kobayashi, Waichi, 4,705,569, Cl. 106-85.000.
Kobayashi, Waichi; Usui, Koji; Hirosawa, Kozo; and Sadatani, Tetsuya, 4,707,270, Cl. 210-683.000.
Kuriyama, Minoru; and Yamamoto, Tadashi, 4,691,755, Cl. 164-305.000.
Kusuki, Yoshihiro; Kikuchi, Masao; and Takeuchi, Yoshio, 4,654,910, Cl. 8-151.200.
Makino, Hiroshi; and Nakatani, Masayuki, 4,690,873, Cl. 428-473.500.
Miyazaki, Haruhiko; Hirai, Koichi; Uda, Taizo; Nakamura, Yasuo; Ikezawa, Harumi; and Tsuchie, Takanori, 4,647,551, Cl. 502-200.000.
Morita, Hideyo; Akagawa, Tomohiko; and Kita, Yasuo, 4,694,031, Cl. 523-203.000.
Nakai, Mamoru; and Enomiya, Takuji, 4,638,094, Cl. 568-309.000.
Nakajima, Kohei; Nishio, Kazuaki; and Watanabe, Hiroshi, 4,696,994, Cl. 528-176.000.
Nakano, Tsunetomo; Yasuno, Hiroshi; and Nishio, Kazuaki, 4,673,773, Cl. 174-68.500.
Okamoto, Hidemasa; Yamanaka, Mitsuo; and Fujii, Kazuyoshi, 4,663,372, Cl. 524-100.000.
Tsuji, Jiro; and Takahashi, Takashi, 4,701,536, Cl. 549-215.000.
Wakita, Kazuto; Tsuchiya, Kazuo; Nagayasu, Isao; and Emoto, Ikuo, 4,642,260, Cl. 428-215.000.
Wakita, Kazuto; Tsuchiya, Kazuo; Kobayashi, Kazuaki; Higashitsuji, Ken; and Kojima, Teruhisa, 4,675,143, Cl. 264-104.000.
Yajima, Mantaro; Noda, Akiko; Okamura, Kiyohito; Hasegawa, Yoshio; and Yamamura, Takemi, 4,663,229, Cl. 428-364.000.
Yamamoto, Shinji; Kaijiri, Kouhei; Nagakura, Kouichi; Oda, Denichi; Matsumori, Yasuo; and Nakayama, Kimio, 4,703,086, Cl. 525-133.000.
Yoshida, Hiroshi; and Inoue, Teruhiko, 4,675,412, Cl. 548-127.000.

Uber, Arthur E., III: *See—*
Reilly, David M.; and Uber, Arthur E., III, 4,677,980, Cl. 128-655.000.

Ubermeier, Dieter: *See—*
Buder, Eckart; Metz, Hans-Ulrich; and Ubermeier, Dieter, 4,678,726, Cl. 429-88.000.

Ubowski, Lawrence W.: *See—*
McManus, John R.; and Ubowski, Lawrence W., 4,633,941, Cl. 165-172.000.

Ubukata, Susumu; Mizutani, Yasukazu; and Iyoda, Syozo, to Ubukata, Susumu. Snap-action type thermally responsive switch. 4,672,353, 6-9-87, Cl. 337-368.000.

UCB Societe Anonyme: *See—*
Gobert, Jean; Giurgea, Corneliu; Geerts, Jean-Pierre; and Bodson, Guy, 4,696,942, Cl. 514-424.000.

Ucci, Pompelio A., to Monsanto Company. Novel carpets with yarns coated with fluorocarbon and adhesive containing fluorocarbon. 4,643,930, 2-17-87, Cl. 428-96.000.

Ucci, Pompelio A.: *See—*
Blyth, Randolph C.; and Ucci, Pompelio A., 4,680,212, Cl. 428-97.000.

Uchibaba, Kouichi, to Honda Giken Kogyo Kabushiki Kaisha. Hydraulic clutch. 4,667,796, 5-26-87, Cl. 192-85.0AA.

Uchibori, Junichi; Koizumi, Yutaka; and Ryu, Toshihiko, to NEC Corporation. Multiple quadrature-phase amplitude modulating system capable of reducing a peak amplitude. 4,675,619, 6-23-87, Cl. 332-31.00R.

Uchida, Akihisa: *See—*
Okada, Daisuke; Uchida, Akihisa; Takakura, Toshihiko; Nakashima, Shinji; Ohno, Nobuhiko; and Ogiue, Katsumi, 4,700,464, Cl. 437-67.000.

Uchida, Atsushi: *See—*
Hyoki, Takuzan; Uchida, Atsushi; and Yamamoto, Yuichi, 4,706,776, Cl. 180-334.000.

Uchida, Goro, to Toyota Jidosha Kabushiki Kaisha. Air conditioner for vehicle. 4,690,039, 9-1-87, Cl. 98-2.080.

Uchida, Goroh, to Toyota Jidosha Kabushiki Kaisha. Heater for warming an operator of a vehicle. 4,679,730, 7-14-87, Cl. 237-12.30R.

Uchida, Hideaki; Mitsumoto, Kinya; Yazawa, Yoshiaki; Nakazato, Shinji; and Odaka, Masanori, to Hitachi, Ltd. Semiconductor memory device with matched equivalent series resistances to the complementary data lines. 4,682,200, 7-21-87, Cl. 357-41.000.

Uchida, Hideaki: *See—*
Nakazato, Shinji; Uchida, Hideaki; Tanba, Nobuo; Gotoo, Nobuyuki; Onozawa, Kazunori; and Hiraishi, Atsushi, 4,672,456, Cl. 357-46.000.
Ogiue, Katsumi; Suzuki, Yukio; Masuda, Ikuro; Odaka, Masanori; and Uchida, Hideaki, 4,713,796, Cl. 365-189.000.

Uchida, Hiroaki: *See—*
Irikura, Tsutomu; Suzue, Seigo; Uchida, Hiroaki; Shinoda, Hirotaka; Murayama, Satoshi; and Kinoshita, Susumu, 4,649,198, Cl. 544-281.000.

Uchida, Hiroshi, to Murata Kikai Kabushiki Kaisha. Bobbin transfer system. 4,650,062, 3-17-87, Cl. 198-468.200.

Uchida, Hiroshi; and Kikuchi, Shuichi, to Murata Kikai Kabushiki Kaisha. Package storage system. 4,674,940, 6-23-87, Cl. 414-400.000.

Uchida, Hiroshi: *See—*
Matsui, Isamu; and Uchida, Hiroshi, 4,634,066, Cl. 242-35.50A.
Matsui, Isamu; Uchida, Hiroshi; Otoshima, Hiroo; Kubota, Yasuhiko; and Masai, Tetsuji, 4,681,271, Cl. 242-18.00R.

Uchida, Hirotaka: *See—*
Kanatani, Tadayuki; Nomura, Katunori; and Uchida, Hirotaka, 4,662,203, Cl. 72-9.000.

Uchida, Hiroyuki. Photopolymerizable resin composition for producing aqueous-development type dry film resists. 4,692,396, 9-8-87, Cl. 430-284.000.

Uchida, Hiroyuki, to Fanuc Ltd. Optical rotary encoder device. 4,704,523, 11-3-87, Cl. 250-231.0SE.

Uchida, Hiroyuki: *See—*
Hiasa, Toshikazu; and Uchida, Hiroyuki, 4,672,924, Cl. 123-65.0PE.
Sasaki, Shin; Nemoto, Tsuneo; Yamashina, Shuichi; and Uchida, Hiroyuki, 4,646,189, Cl. 360-12.000.
Soda, Yutaka; Imamura, Hideko; Uchida, Hiroyuki; and Sekiya, Tetsuo, 4,713,710, Cl. 360-121.000.
Souda, Yutaka; Imakoshi, Shigeyoshi; Suyama, Hideo; Uchida, Hiroyuki; Iida, Yasuhiro; and Sekiya, Tetsuo, 4,673,998, Cl. 360-113.000.
Wakabayashi, Noboru; Akiyama, Katsuhiko; Soda, Yutaka; and Uchida, Hiroyuki, 4,642,716, Cl. 360-104.000.

Uchida, Isao: *See—*
Wakabayashi, Hiroshi; Kazami, Kazuyuki; and Uchida, Isao, 4,697,898, Cl. 354-127.130.

Uchida, Itsuo: *See—*
Kohsaka, Masanobu; Terano, Hiroshi; Komori, Tadaaki; Iwami, Morita; Yamashita, Michio; Hashimoto, Masashi; Uchida, Itsuo; and Takase, Shigehiro, 4,645,765, Cl. 514-233.000.
Umehara, Kazuyoshi; Yoshida, Keizo; Tanaka, Hirokazu; Uchida, Itsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, 4,643,990, Cl. 514-18.000.

Uchida, Kanzaburo: *See—*
Ohtsuki, Tomonari; and Uchida, Kanzaburo, 4,671,594, Cl. 439-347.000.

Uchida, Katsuhiro; Masumoto, Shozo; Tohno, Masao; Mimura, Mitsuo; Okumura, Makoto; Ichikawa, Kiyonoshin; and Matsumura, Misako, to Kaken Pharmaceutical Co., Ltd. Biphenylylpropionic acid deriva-

tive and pharmaceutical composition containing the same. 4,699,925, 10-13-87, Cl. 514-559.000.
Uchida, Katsuyoshi, to Nissan Motor Co., Ltd. Harness supporting structure at inner part of door. 4,634,159, 1-6-87, Cl. 292-336.300.
Uchida, Kazuko: *See*—
Deguchi, Takenori; Uchida, Kazuko; Ikita, Takao; Maruhaski, Shigeaki; Hoshino, Kazuo; and Oosaki, Keiji, 4,696,724, Cl. 204-27.000.
Uchida, Kazumichi: *See*—
Shimizu, Isoo; Hirano, Ryotaro; Matsumura, Yasuo; Nomura, Hideki; Uchida, Kazumichi; and Sato, Atsushi, 4,694,100, Cl. 560-105.000.
Uchida, Keiichiro, to Fujitsu Limited. Data processing unit utilizing data flow ordered execution. 4,675,806, 6-23-87, Cl. 364-200.000.
Uchida, Kenji: *See*—
Nagaoka, Kazuo; Isobe, Tomoichi; Kanasugi, Toshihiko; Suzuki, Nobuyuki; Wakabayashi, Sadao; Uchida, Kenji; Tsukamoto, Hideharu; Ohno, Mitsuru; and Shimano, Tadahiko, 4,649,648, Cl. 33-125.00R.
Uchida, Kihachirou, to Koito Seisakusho Co., Ltd. Waterproof lamp socket construction. 4,695,259, 9-22-87, Cl. 439-271.000.
Uchida, Kinji: *See*—
Abe, Keietsu; Hashiba, Hironaga; and Uchida, Kinji, 4,668,518, Cl. 426-46.000.
Uchida, Kohachi; Shibuya, Kunihiro; and Nakamura, Hajime, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,678,314, 7-7-87, Cl. 355-5.000.
Uchida, Makoto: *See*—
Kobayashi, Kazuhiro; Koboshi, Shigeharu; Kuse, Satoru; Miyaoka, Kazuyoshi; Kurematsu, Masayuki; and Uchida, Makoto, 4,705,379, Cl. 354-324.000.
Muraoka, Kenichi; Setoguchi, Yoichi; Kawase, Tadamasa; Kawata, Hiroitsu; Komatsu, Hisamoto; and Uchida, Makoto, 4,707,376, Cl. 426-658.000.
Uchida, Manabu: *See*—
Takahashi, Shigeyuki; Uchida, Manabu; and Yamazaki, Kazuhiro, 4,638,057, Cl. 536-76.000.
Yamazaki, Kazuhiro; and Uchida, Manabu, 4,663,447, Cl. 536-76.000.
Uchida, Masahiro: *See*—
Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,679,739, Cl. 241-121.000.
Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,684,069, Cl. 241-79.100.
Soma, Hiroshi; Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,643,366, Cl. 241-117.000.
Uchida, Matazaemon: *See*—
Seo, Akira; Kanno, Hideo; Hasegawa, Nobu; Miyagi, Yukio; Nishimura, Akira; Konaka, Shigeo; Ohmi, Tetsuto; Munechika, Yukimi; Uchida, Matazaemon; and Ikeda, Kenichi, 4,636,519, Cl. 514-397.000.
Uchida, Mikio: *See*—
Shoji, Masao; Uchida, Mikio; and Kinoshita, Yoshio, 4,635,770, Cl. 192-41.00A.
Shoji, Masao; Uchida, Mikio; and Kitamura, Noboru, 4,635,771, Cl. 192-41.00A.
Uchida, Minoru; Nishi, Takao; and Nakagawa, Kazuyuki, to Otsuka Pharmaceutical Co., Ltd. Tetrazole derivatives, anti-ulcer composition containing the same and method for treating ulcers. 4,663,323, 5-5-87, Cl. 514-227.000.
Uchida, Minoru; Komatsu, Makoto; and Nakagawa, Kazuyuki, to Otsuka Pharmaceutical Co., Ltd. 2-amido 3(oxindol-3-yl)propionic acids having antiulcer activity. 4,694,017, 9-15-87, Cl. 514-418.000.
Uchida, Minoru, to Hitachi, Ltd. Mass spectrometer. 4,694,169, 9-15-87, Cl. 250-296.000.
Uchida, Minoru: *See*—
Takeda, Takao; Yamazaki, Hitoshi; Taniguchi, Yoshiteru; Tanaka, Norihiko; Ito, Hiroshi; Uchida, Minoru; and Imai, Jun, 4,703,227, Cl. 313-634.000.
Uchida, Mitsukuni: *See*—
Sakaguchi, Ushio; Nakano, Masahiro; and Uchida, Mitsukuni, 4,705,039, Cl. 128-334.00C.
Uchida, Naomi: *See*—
Totani, Tetsushi; Shiratori, Osamu; Aono, Katsutoshi; and Uchida, Naomi, 4,658,048, Cl. 556-137.000.
Uchida, Noriaki; Ushijima, Makoto; and Yanagisawa, Etsuo, to Hitachi Metals, Ltd. Non-magnetic part in magnetic head assembly. 4,667,259, 5-19-87, Cl. 360-122.000.
Uchida, Noriaki, to Nissan Shatai Company, Limited. Automotive air conditioning system with independent temperature control for dual air flows. 4,681,153, 7-21-87, Cl. 165-31.000.
Uchida, Riichi; Matsubara, Katsumi; and Tsuru, Seiji, to Hitachi, Ltd. Operation control system of rotary displacement type vacuum pump. 4,664,601, 5-12-87, Cl. 417-27.000.
Uchida, Riichi: *See*—
Matsubara, Katsumi; Uchida, Riichi; Muramatsu, Masatoshi; Naya, Kotaro; and Takagi, Tsuneharu, 4,714,418, Cl. 418-201.000.
Uchida, Sadao; and Harata, Mitsuru, to Toyoda Gosei Co., Ltd. Impactive energy absorbing structure. 4,657,121, 4-14-87, Cl. 188-376.000.
Uchida, Sadao: *See*—
Kobayashi, Teruo; and Uchida, Sadao, 4,640,150, Cl. 74-532.000.
Uchida, Satoru, to Ricoh Company, Ltd. Color image reader. 4,694,332, 9-15-87, Cl. 358-75.000.
Uchida, Satoshi: *See*—
Kashiwazaki, Masamichi; Ogawa, Kiichiro; and Uchida, Satoshi, 4,689,949, Cl. 60-39.120.
Uchida, Seiichi: *See*—
Okino, Hiroshi; Uchida, Seiichi; and Matsushita, Keita, 4,700,007, Cl. 568-347.000.
Uchida, Seiju: *See*—
Degawa, Toru; Fujiwara, Kozo; Hashimoto, Akio; Uchida, Seiju; Okuyama, Gen; and Matsui, Susumu, 4,695,427, Cl. 420-129.000.
Degawa, Toru; Okuyama, Gen; Hashimoto, Akio; Uchida, Seiju; Fujiwara, Kouzou; Ebata, Makoto; Satou, Takashi; and Ototani, Tohei, 4,710,481, Cl. 501-123.000.
Uchida, Shigetaka: *See*—
Iwamura, Yoshinari; Okimoto, Katsunori; Teshima, Toshio; Miyahara, Shinobu; Uchida, Shigetaka; Sera, Taizo; and Ozawa, Koichi, 4,646,977, Cl. 239-590.500.
Uchida, Shiichiro, to Shonetsugaku Kenkyusho Co., Ltd. Shelf structure for drying sacked matter. 4,715,129, 12-29-87, Cl. 34-195.000.
Uchida, Shinichi: *See*—
Nakanishi, Yoshiyuki; Akazawa, Yoji; Kurimoto, Ikuo; Takahashi, Youjirou; Uchida, Shinichi; and Yoshikawa, Hisashi, 4,665,200, Cl. 549-239.000.
Uchida, Shinji: *See*—
Furuta, Mitsuo; and Uchida, Shinji, 4,678,244, Cl. 305-57.000.
Uchida, Shunsuke: *See*—
Asakura, Yamato; and Uchida, Shunsuke, 4,704,245, Cl. 376-245.000.
Uchida, Susumu: *See*—
Yamada, Hideo; Ichiki, Shigemi; Naniwa, Hisamoto; Uchida, Susumu; Kadokura, Kenji; Tsunoda, Susumu; and Nakajima, Kunio, 4,674,127, Cl. 383-6.000.
Uchida, Tadao: *See*—
Fujitsugu, Yutaka; Ito, Tomoo; and Uchida, Tadao, 4,669,504, Cl. 137-625.650.
Uchida, Takahiko: *See*—
Tsuneki, Takao; Ano, Shinji; Uchida, Takahiko; Imai, Tomoyasu; Okamoto, Masaru; Ohtaka, Hideo; and Murakami, Hiromi, 4,666,609, Cl. 210-701.000.
Uchida, Takanao, to Honda Giken Kogyo Kabushiki Kaisha. Valve actuator for internal combustion engine. 4,672,927, 6-16-87, Cl. 123-90.440.
Uchida, Takashi: *See*—
Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hatta, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsubara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.
Uchida, Takeshi: *See*—
Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Iinuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, 4,686,308, Cl. 564-219.000.
Uchida, Tatsuo: *See*—
Yasui, Shigeo; Ono, Masashi; Kobayashi, Seiko; Senzai, Shigeo; and Uchida, Tatsuo, 4,676,923, Cl. 252-299.100.
Uchida, Teruo, to Kioritz Corporation. Method of forming screw thread on crankshaft and the like. 4,656,723, 4-14-87, Cl. 29-558.000.
Uchida, Teruyoshi; Yamamori, Hisayoshi; Kojima, Hirotaka; and Tashita, Junichi, to Mitsubishi Rayon Company, Ltd. Electrode for living body. 4,672,970, 6-16-87, Cl. 128-635.000.
Uchida, Teruyoshi: *See*—
Ooe, Akihiko; Imaida, Tetsuo; Uchida, Teruyoshi; and Kojima, Hirotaka, 4,690,147, Cl. 128-635.000.
Uchida, Toshiya: *See*—
Abe, Nobuhide; Adachi, Minoru; Ito, Makoto; and Uchida, Toshiya, 4,698,774, Cl. 364-477.000.
Uchida, Toyohisa: *See*—
Hattori, Shigenori; Ueno, Hideo; Uchida, Toyohisa; and Kinoshita, Naohisa, 4,665,407, Cl. 346-76.0PH.
Uchida, Yasumi: *See*—
Shiratsuchi, Masami; Kawamura, Kiyoshi; Akashi, Toshihiro; Ishihama, Hiroshi; and Uchida, Yasumi, 4,678,803, Cl. 514-456.000.
Uchida, Yoshihiro: *See*—
Sugimori, Tsunetake; Tsukada, Yoji; Uchida, Yoshihiro; and Ohta, Yasuhiro, 4,699,883, Cl. 435-232.000.
Uchida, Yoshiyuki; and Nishiura, Masaharu, to Fuji Electric Corporate Research and Development Co., Ltd. Strain gauge. 4,658,233, 4-14-87, Cl. 338-5.000.
Uchida, Yoshiyuki: *See*—
Hattori, Shuzo; and Uchida, Yoshiyuki, 4,664,524, Cl. 356-401.000.
Uchida, Yukimasa, to Kabushiki Kaisha Toshiba. Semiconductor memory device. 4,710,905, 12-1-87, Cl. 365-229.000.
Uchida, Yukimasa: *See*—
Furuyama, Tohru; and Uchida, Yukimasa, 4,697,252, Cl. 365-189.000.
Iizuka, Tetsuya; Fujii, Syuso; and Uchida, Yukimasa, 4,641,165, Cl. 357-23.600.
Uchidoi, Masanori; and Suzuki, Nobuyuki, to Canon Kabushiki Kaisha. Light measuring device. 4,681,441, 7-21-87, Cl. 356-222.000.
Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, to Canon Kabushiki Kaisha. Recording apparatus. 4,639,744, 1-27-87, Cl. 346-76.0PH.
Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, to Canon Kabushiki Kaisha. Thermal printer. 4,672,393, 6-9-87, Cl. 346-76.0PH.
Uchikata, Yoshio; Nozaki, Mineo; Asakura, Osamu; and Nagashima, Masasumi, to Canon Kabushiki Kaisha. Platen support structure of recording apparatus. 4,676,683, 6-30-87, Cl. 400-656.000.

Uchikata, Yoshio; Nozaki, Mineo; Nagashima, Masasumi; and Asakura, Osamu, to Canon Kabushiki Kaisha. Printer. 4,709,242, 11-24-87, Cl. 346-76.0PH.

Uchikata, Yoshio. *See*—
- Asakura, Osamu; Nozaki, Mineo; Nagashima, Masasumi; and Uchikata, Yoshio, 4,636,810, Cl. 346-76.0PH.
- Asakura, Osamu; Nozaki, Mineo; Nagashima, Masasumi; and Uchikata, Yoshio, 4,669,897, Cl. 400-121.000.
- Asakura, Osamu; Nozaki, Mineo; Uchikata, Yoshio; and Nagashima, Masasumi, 4,691,534, Cl. 400-568.000.
- Nagashima, Masasumi; Nozaki, Mineo; Asakura, Osamu; and Uchikata, Yoshio, 4,692,774, Cl. 346-76.0PH.

Uchikawa, Fusaoki, to Mitsubishi Denki Kabushiki Kaisha. Moisture sensitive material and process for its production. 4,666,628, 5-19-87, Cl. 252-500.000.

Uchikawa, Fusaoki; Takeuchi, Morihisa; Shimamoto, Kozo; Miyao, Kunihiko; Momoyama, Kimiki; and Watarai, Hisao, to Mitsubishi Denki Kabushiki Kaisha. Moisture sensitive element containing high temperature decomposition residue of organo-silicon polymer as sensitive element. 4,673,910, 6-16-87, Cl. 338-35.000.

Uchikawa, Fusaoki. *See*—
- Tanaka, Hideharu; Sekiya, Mutsuo; and Uchikawa, Fusaoki, 4,700,805, Cl. 181-265.000.

Uchikawa, Kiyoshi; and Niwa, Tatsuo, to Nippon Kogaku K. K. Dispersed iridium based complementary electrochromic device. 4,652,080, 3-24-87, Cl. 350-357.000.

Uchikawa, Kiyotaka. *See*—
- Nakagawa, Shigeru; and Uchikawa, Kiyotaka, 4,643,912, Cl. 427-57.000.

Uchikawa, Naoyuki. *See*—
- Mizuno, Takao; Arata, Tetsuya; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuno, Hiroaki, 4,669,962, Cl. 418-55.000.
- Mizuno, Takao; Uchikawa, Naoshi; Murayama, Akira; Tamura, Takahiro; and Kuroshima, Ryoichi, 4,714,415, Cl. 418-14.000.
- Murayama, Akira; Kuno, Hiroaki; Uchikawa, Naoshi; Tamura, Takahiro; Mizuno, Takao; Aiba, Kazumi; Ikeda, Mitsuo; and Fukatsu, Kiyoshi, 4,690,625, Cl. 418-55.000.

Uchikawa, Sadao; and Aoyama, Motoo, to Hitachi, Ltd. Fuel assembly. 4,652,427, 3-24-87, Cl. 376-447.000.

Uchikawa, Sadao. *See*—
- Aoyama, Motoo; Maruyama, Hiromi; Umegaki, Kikuo; and Uchikawa, Sadao, 4,695,425, Cl. 376-435.000.

Uchikawa, Tadao; and Kitagawa, Kunio, to NEC Corporation. Mechanical amplification mechanism for electromechanical transducer. 4,675,568, 6-23-87, Cl. 310-328.000.

Uchikawa, Tadao. *See*—
- Oota, Takashi; Uchikawa, Tadao; Okihara, Naoto; Aihara, Yoshiki; and Wakamatsu, Kazutoshi, 4,672,257, Cl. 310-328.000.

Uchikawa, Tadashi. *See*—
- Watanabe, Kenshu; Uchikawa, Tadashi; Takiyama, Masashi; and Kurahashi, Takashi, 4,648,425, Cl. 137-557.000.

Uchikawa, Takaaki. *See*—
- Yamagata, Taizo; Uchikawa, Takaaki; Yamamoto, Shinichi; Tomikawa, Shinichiro; Ogasahara, Yoshio; and Sukagawa, Masaru, 4,694,736, Cl. 98-31.600.

Uchikawa, Yoshiro. *See*—
- Oguchi, Kikuo; and Uchikawa, Yoshiro, 4,640,582, Cl. 350-333.000.

Uchiki, Hideo. *See*—
- Yoshida, Kasumi; Uchiki, Hideo; and Kuroishi, Tadafumi, 4,645,647, Cl. 422-81.000.

Uchikoshi, Gohji; and Terada, Akio, to Nakamichi Corporation. Servo system for positioning and driving a movable member using two reference voltages. 4,659,972, 4-21-87, Cl. 318-616.000.

Uchikoshi, Mituyuki, to Sanlcusha Co., Ltd. Laundry presser for simultaneously pressing multiple clothing sections. 4,634,030, 1-6-87, Cl. 223-57.000.

Uchikoshi, Shinichi. *See*—
- Okayasu, Shinpei; Uchikoshi, Shinichi; and Nobatake, Atsuo, 4,681,591, Cl. 8-115.680.

Uchimi, Takashi, to Victor Company of Japan, Limited. Digital recording/playback system with limited frequency range. 4,635,140, 1-6-87, Cl. 360-40.000.

Uchimi, Takashi, to Victor Company of Japan, Limited. Magnetic recording and playback apparatus. 4,656,527, 4-7-87, Cl. 358-320.000.

Uchimura, David H., to Tegal Corporation. Plasma etch process. 4,678,540, 7-7-87, Cl. 156-643.000.

Uchimura, Kazumi. *See*—
- Yamozaki, Yoshihide; Uchimura, Kazumi; Yamashita, Satoshi; and Takeuchi, Mikio, 4,695,614, Cl. 526-142.000.

Uchimura, Kuniharu; Kobayashi, Tsutomu; Iwata, Atushi; Hayashi, Toshio; and Kumura, Tadakatsu, to Nippon Telegraph and Telephone Corporation. Oversampling converter. 4,704,600, 11-3-87, Cl. 340-347.0AD.

Uchimura, Mitsuo; and Masuyama, Tsutomu, to Tokyo Electric Co. Ltd. Multi-range load cell scales. 4,660,667, 4-28-87, Cl. 177-164.000.

Uchimura, Mitsuo; and Maruyama, Tsutomu, to Tokyo Electric Co., Ltd. Multi-range load cell weighing instrument. 4,690,230, 9-1-87, Cl. 177-229.000.

Uchimura, Mitsuo; and Masuyama, Tsutomu, to Tokyo Electric Co., Ltd. Load cell scales. 4,693,330, 9-15-87, Cl. 177-25.000.

Uchimura, Shun-ichiro. *See*—
- Makino, Daisuke; Sato, Hidetaka; Suzuki, Hiroshi; Uchimura, Shun-ichiro; and Suzuki, Hiroshi, 4,645,688, Cl. 427-82.000.

Uchin, Stanley, to Charles Beseler Company. Ever-ready camera case. 4,649,973, 3-17-87, Cl. 150-52.00J.

Uchino, Eiji. Elevator. 4,709,787, 12-1-87, Cl. 187-56.000.

Uchino, Fumio. *See*—
- Karaki, Kouichi; and Uchino, Fumio, 4,706,195, Cl. 367-120.00.

Uchino, Hayashi; Azuma, Masaaki; Ohashi, Takehisa; and Watanabe, Kiyoshi, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Sulfate of 5,6,7,8-tetrahydro-L-erythro-biopterin and process for preparing the same. 4,649,197, 3-10-87, Cl. 544-258.000.

Uchino, Hideo, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for automatic floor arrival at service interruption in A. C. elevator. 4,662,478, 5-5-87, Cl. 187-114.000.

Uchiro, Hiroshi. *See*—
- Shimamura, Takeo; Uchino, Hiroshi; and Kurosawa, Ryuichi, 4,698,581, Cl. 323-211.000.

Uchino, Kazuyoshi, to Jidosha Kiki Co., Ltd. Flow control valve with switching valve. 4,658,850, 4-21-87, Cl. 137-101.000.

Uchino, Kazuyoshi; and Nikaido, Masaya, to Jidosha Kiki Co. Ltd. Flow control valve. 4,700,733, 10-20-87, Cl. 137-117.000.

Uchino, Megumi, to Hitachi, Ltd. Terminal control apparatus for parallel execution of data editing and data transmission/reception control. 4,680,699, 7-14-87, Cl. 364-200.000.

Uchioke, Fumikiyo; Ogasawara, Ichiro; and Suzuki, Shuji, to Sumitomo Electric Industries, Ltd.; and Nippon Telegraph & Telephone Public Corporation. Water-blocked optical fiber cable. 4,703,998, 11-3-87, Cl. 350-96.230.

Uchiumi, Isao. *See*—
- Takamizawa, Kinya; and Uchiumi, Isao, 4,644,214, Cl. 310-334.00.

Uchiya, Takao; and Kawashima, Haruo, to Toshiba Monofrax Company, Ltd. Laminar block and method of and apparatus for producing the laminar block. 4,670,318, 6-2-87, Cl. 428-102.000.

Uchiyama, Akira. *See*—
- Iwabuchi, Toshiyuki; Sakai, Shunji; Uchiyama, Akira; Sakamoto, Masaki; and Masaki, Yuichi, 4,672,219, Cl. 250.578.000.
- Yonekura, Katsuyoshi; Uchiyama, Akira; and Matsuda, Akira, 4,650,830, Cl. 525-193.000.
- Yonekura, Katsuyoshi; Uchiyama, Akira; and Matsuda, Akira, 4,656,098, Cl. 428-517.000.

Uchiyama, Arisa. *See*—
- Tamura, Masafumi; Uchiyama, Arisa; Kondo, Takashi; and Kageyama, Satoshi, 4,709,264, Cl. 358-93.000.

Uchiyama, Eizo. *See*—
- Yamamoto, Yoshun; Okubo, Hitoshi; Watanabe, Yutaka; Uchiyama, Eizo; and Yasunaga, Yuroku, 4,697,446, Cl. 72-178.000.

Uchiyama, Hiroshi; and Matsui, Yukinori, to Hokuto Chemical Co. Ltd. Method for preventing coking in hydrocarbon treatment process. 4,636,297, 1-13-87, Cl. 208-48.0AA.

Uchiyama, Jun; and Iwata, Yasuhiro, to Nohmi Bosai Kogyo Co. Ltd. Foam extinguishing system. 4,662,454, 5-5-87, Cl. 169-15.000.

Uchiyama, Kaoru; and Tsutsui, Mitsukuni, to Hitachi, Ltd. Hot-wire flow rate measuring apparatus. 4,672,847, 6-16-87, Cl. 73-204.00.

Uchiyama, Kaoru. *See*—
- Yamazaki, Seiichi; Uchiyama, Kaoru; and Tahara, Toshio, 4,662,554, Cl. 226-170.000.
- Yamazaki, Seiichi; Uchiyama, Kaoru; and Tahara, Toshio, 4,693,016, Cl. 34-52.000.

Uchiyama, Kazuo; and Suzuki, Takamitsu, to Yamaha Hatsudoki Kabushiki Kaisha. Valve driving means for V-type engine of vehicle. 4,643,143, 2-17-87, Cl. 123-90.310.

Uchiyama, Kazuo. *See*—
- Ohmi, Masatoshi; Yoneda, Toshihiko; and Uchiyama, Kazuo, 4,649,876, Cl. 123-302.000.
- Ohmi, Masatoshi; Yoneda, Toshihiko; and Uchiyama, Kazuo, 4,702,203, Cl. 123-52.0MV.

Uchiyama, Kimio. *See*—
- Ito, Takato; Shimada, Akihiro; and Uchiyama, Kimio, 4,656,501, Cl. 361-433.000.

Uchiyama, Koji; Nakazawa, Akira; and Tanaka, Masao, to Fujitsu Limited. Ink compositions and ink sheets for use in heat transfer recording. 4,661,393, 4-28-87, Cl. 428-200.000.

Uchiyama, Kunio; and Nishimukai, Tadahiko, to Hitachi, Ltd. Content addressable memory having dual access modes. 4,646,271, 2-24-87, Cl. 365-49.000.

Uchiyama, Masaki. *See*—
- Imai, Eiichi; Uchiyama, Masaki; Urawa, Motoo; and Yamamoto, Atsuko, 4,666,815, Cl. 430-126.000.
- Mitsuhashi, Yasuo; Uchiyama, Masaki; Murakowa, Kazunori; and Okado, Kenji, 4,640,882, Cl. 430-110.000.

Uchiyama, Minoru. *See*—
- Tsutsumi, Jiro; Uchiyama, Minoru; Katagiri, Kunio; and Yamada, Haruo, 4,657,076, Cl. 166-90.000.

Uchiyama, Naoki. *See*—
- Hosoda, Naoyuki; Morikawa, Masaki; Uchiyama, Naoki; Yoshida, Hideaki; and Ono, Toshiaki, 4,676,827, Cl. 75-65.0ZM.

Uchiyama, Nobuichi. *See*—
- Hattori, Toshihiro; Uchiyama, Nobuichi; Aoki, Yasuyoshi; Ogawa, Noriaki; and Kasai, Hitoshi, 4,683,996, Cl. 192-0.031.

Uchiyama, Shinich. *See*—
- Matsumoto, Tokikazu; Nakagawa, Yukio; and Uchiyama, Shinich, 4,673,970, Cl. 358-27.000.

Uchiyama, Souchi; Hayasaka, Toshiaki; and Ohhayashi, Yasuo, to Research Association for Petroleum Alternatives Development. Process for preparing oxygen-containing organic compounds. 4,673,693, 6-16-87, Cl. 518-713.000.

Uchiyama, Susumu. *See*—
- Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,679,739, Cl. 241-121.000.

Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,684,069, Cl. 241-79.100.
Sotta, Hiroshi; Hashimoto, Isao; Kinoshita, Tosuke; Uchida, Masahiro; and Uchiyama, Susumu, 4,643,366, Cl. 241-117.000.
Uchiyama, Takamasa: *See*—
Ouchi, Yasohide; Aoi, Hajime; Tamura, Takashi; Nakabayashi, Kazuyoshi; and Uchiyama, Takamasa, 4,651,236, Cl. 360-45.000.
Uchiyama, Takashi; Suzuki, Ryoichi; and Nakamura, Zenzo, to Canon Kabushiki Kaisha, Flash photographic exposure control system, 4,669,850, 6-2-87, Cl. 354-416.000.
Uchiyama, Taro; Takehisa, Kiwamu; and Ishizaki, Isao, to Mitsui Grinding Wheel Co., Ltd., and Uchiyama, Taro, System for generation of singlet-delta oxygen, 4,643,889, 2-17-87, Cl. 423-579.000.
Uchiyama, Toyoharu: *See*—
Nakamura, Kiyoshi; Isaka, Masayoshi; and Uchiyama, Toyoharu, 4,689,530, Cl. 318-135.000.
Uchiyama, Winston S.: *See*—
Farfonuk, Eva H.; and Uchiyama, Winston S., 4,678,594, Cl. 252-186.310.
Uchiyama, Yoshiharu: *See*—
Ezuka, Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wada, Katsuo; Hirose, Fumiyuki; Kuroda, Michio; Uchiyama, Yoshiharu; Ishibashi, Yoji; Sato, Isao; and Inoue, Hitoshi, 4,683,715, Cl. 60-39.060.
Sato, Isao; Ishibashi, Yoji; Tamura, Zemuke; Ohnishi, Takashi; Minakawa, Yoshimitsu; Fujimura, Hidekazu; and Uchiyama, Yoshiharu, 4,671,069, Cl. 60-737.000.
Uchiyama, Yuki, to Sakai & Co., Ltd, Cassette tape holder, 4,690,278, 9-1-87, Cl. 206-387.000.
Uchiman, Vernon A.: *See*—
Dixon, Thomas J.; and Uchtman, Vernon A., 4,701,322, Cl. 424-70.000.
Uckermann, Bernd: *See*—
Dobler, Werner; Merz, Ludwig; Frohnert, Heinz; Uckermann, Bernd; Grasser, Ulrich; Jankowski, Alfons; Wolowski, Eckard; Tamm, Hans-Friedrich; and Wilczok, Norbert, 4,639,310, Cl. 208-412.000.
Uckert, Gotthard: *See*—
Wallner, Felix; Krier, Adam; Lugscheider, Walter; Uckert, Gotthard; and Freimann, Paul, 4,651,656, Cl. 110-346.000.
Udaf, Roussel: *See*—
Clemence, Francois; and Le Martret, Odile, 4,657,857, Cl. 548-195.000.
Uda, Iwao: *See*—
Yamazaki, Shunsuke; Takeda, Rikio; and Uda, Iwao, 4,710,349, Cl. 420-495.000.
Uda, Kazutaka, to Sharp Kabushiki Kaisha, Pressure sensitive element, 4,682,500, 7-28-87, Cl. 73-705.000.
Uda, Koji; Oda, Kazuyuki; and Ayata, Naoki, to Canon Kabushiki Kaisha, Alignment and exposure apparatus, 4,669,867, 6-2-87, Cl. 355-53.000.
Uda, Masahiro; Ohno, Satoru; and Okuyama, Hideo, to National Research Institute for Metals, Process for producing ultrafine particles of ceramics, 4,642,207, 2-10-87, Cl. 264-10.000.
Uda, Masahiro; and Ohno, Satoru, to National Research Institute for Metals, Process for producing mixed ultrafine powder of metals or ceramics, 4,689,075, 8-25-87, Cl. 75-0.50B.
Uda, Tadayoshi: *See*—
Nishino, Yoshinori; Yamamoto, Masahiko; Uda, Tadayoshi; Kondo, Kiyoshi; Kondo, Yutaka; and Kondo, Kazuo, 4,709,714, Cl. 134-89.000.
Uda, Taizo: *See*—
Miyazaki, Haruhiko; Hirai, Koichi; Uda, Taizo; Nakamura, Yasuo; Ikezawa, Harumi; and Tvuchie, Takanori, 4,647,551, Cl. 502-200.000.
Uda, Yoshiaki; Hirai, Shin-ichiro; and Yashiki, Takatsuka, to Takeda Chemical Industries, Ltd. Pharmaceutical composition and its rectal use, 4,670,419, 6-2-87, Cl. 514-16.000.
Uda, Yuuichi; Matsushima, Seiya; Saito, Kazuhiko; Yamamoto, Shoji; and Murakami, Kazuhiro, to Honda Giken Kogyo Kabushiki Kaisha and Honda Lock Manufacturing Co., Ltd. Folding key for vehicles, 4,637,238, 1-20-87, Cl. 70-456.00R.
Udagawa, Etsuro: *See*—
Imanaka, Yoshihiko; Ogawa, Hiromi; Tvakada, Mineharu; Udagawa, Etsuro; Kurihara, Kazuaki; Yokoyama, Hiromitsu; and Kanehara, Nobuo, 4,679,320, Cl. 29-845.000.
Udagawa, Takatoshi: *See*—
Nakatani, Kiyoshi; Numata, Satoshi; Koslaka, Kenji; Oda, Kenzo; Shiraishi, Shiro; and Udagawa, Takatoshi, 4,661,501, Cl. 514-345.000.
Udagawa, Tsugio; Akatsu, Toshio; and Hamada, Yasunori, to Hitachi, Ltd. Grip device, 4,667,997, 5-26-87, Cl. 294-86.400.
Udagawa, Tsunekazu, to Ishikawa Gasket Co. Ltd. Gasket for an internal combustion engine, 4,711,456, 12-8-87, Cl. 277-235.00B.
Udagawa, Tsunekazu, to Ishikawa Gasket Co. Ltd. Steel laminate gasket, 4,714,260, 12-22-87, Cl. 277-235.00B.
Udagawa, Yoshio, Trackway toy assembly, 4,678,449, 7-7-87, Cl. 446-136.000.
Udagawa, Yoshio, to Blue Box Toy Factory Limited; and Toplay Limited, Toys, 4,708,685, 11-24-87, Cl. 446-139.000.
Udagawa, Yoshiyuki: *See*—
Miyabayashi, Toshio; Sakabe, Nobuyuki; Udagawa, Yoshiyuki; Enyo, Hiroji; and Takemura, Yasuhiko, 4,675,362, Cl. 525-208.000.
Udaka, Shigezo; Ueyama, Hideo; Taniguchi, Junichi; and Adachi, Keiji, to Udaka, Shigezo; Furukawa Keinchiro; and Shikibo Ltd. SPF-100 and process for the preparation thereof, 4,656,037, 4-7-87, Cl. 424-118.000.
Udavchak, Donald L.: *See*—
Lowther, Gary R.; Jones, Warren W.; and Udavchak, Donald L., 4,654,550, Cl. 310-59.000.
Udd, Eric: *See*—
Cahill, Richard F.; Eck, Jeffrey A.; Schwanz, Gerald L.; Theriault, John P.; Turek, Philip A.; Udd, Eric; Wagoner, Raymond E.; and Wanser, Keith H., 4,712,306, Cl. 33-304.000.
Uddeholm Tooling Aktiebolag: *See*—
Roberts, William, 4,673,433, Cl. 75-53.000.
Udding, Anne C., to Shell Oil Company, Process for the preparation of an azidosulphonylbenzoic acid, 4,666,631, 5-19-87, Cl. 260-349.000.
Uddo Mims International, Inc.: *See*—
Mims, Ken, 4,707,277, Cl. 210-805.000.
Ude, Werner; Kaebel, Joachim; and Schroeder, Guenter, to Rohm GmbH, Phosphorus-containing polyarylene ether, 4,696,993, 9-29-87, Cl. 528-167.000.
Ude, Werner; Besecke, Siegmund; Riemann, Achim; and Schroeder, Guenther, to Rohm GmbH, Method for making aromatic phosphorus compounds, 4,698,448, 10-6-87, Cl. 568-14.000.
Ude, Werner: *See*—
Riemann, Achim; and Ude, Werner, 4,638,099, Cl. 568-638.000.
Riemann, Achim; and Ude, Werner, 4,675,458, Cl. 568-727.000.
Siegert, Hermann; and Ude, Werner, 4,673,730, Cl. 528-491.000.
Udelhofen, Mark J.; and Flood, David T., to Illinois Tool Works Inc. Cord retainer assembly, 4,665,590, 5-19-87, Cl. 24-115.00H.
Udell, Theodore H.; and Koller, David R., to Container Corporation of America, Manufacturing method for thermoplastic container with integral lifting ring, 4,713,207, 12-15-87, Cl. 264-515.000.
Uden, Edward, to U.S. Philips Corporation, Data card and method of manufacturing same, 4,649,418, 3-10-87, Cl. 357-80.000.
Udovich, Carl A.: *See*—
Edwards, Robert C.; and Udovich, Carl A., 4,649,205, Cl. 549-260.000.
Udvardy Nagy nee Cserey Pechany, Eva: *See*—
Kelemen, Agnes; Jaksa, Istvan; Stefko, Bela; and Udvardy Nagy nee Cserey Pechany, Eva, 4,657,859, Cl. 435-86.000.
Udviklingscentret Hansen: *See*—
Hundebol, Keld O., 4,646,473, Cl. 51-90.000.
Udviklingscentret Hansen & Hundebol A/S: *See*—
Hundebol, Keld O., 4,637,173, Cl. 51-334.000.
Ue, Makoto: *See*—
Mori, Shonchiro; and Ue, Makoto, 4,715,976, Cl. 252-62.200.
Ueba, Hisaaki: *See*—
Fukuda, Ken; and Ueba, Hisaaki, 4,690,849, Cl. 428-91.000.
Ueba, Yoshinobu; and Miyake, Shinichi, to Sumitomo Electric Industries, Ltd. Plastic optical fibers, 4,681,400, 7-21-87, Cl. 350-96.340.
Ueba, Yoshinobu: *See*—
Shioya, Jun; Yamaguchi, Yoichi; Ueba, Yoshinobu; and Matsuhara, Hironaga, 4,645,713, Cl. 428-457.000.
Uebel, Alexander: *See*—
Herzicid, Ronald; Wydra, Karl; and Uebel, Alexander, 4,634,053, Cl. 239-315.000.
Uebel, Philipp: *See*—
Richter, Hanno; Mirsberger, Helmut; Uhlig, Rainer; Haage, Manfred; and Uebel, Philipp, 4,708,551, Cl. 411-32.000.
Uebele, Curtis F.; Ball, Lawrence E.; Jorkasky, Richard J., II; and Wardlow, Eddie, Jr., to Standard Oil Company, The, Polymerization process for carboxyl containing polymers utilizing oil soluble ionic surface active agents, 4,692,502, 9-8-87, Cl. 526-193.000.
Uebelhart, Heinrich: *See*—
Wyser, Paul; and Uebelhart, Heinrich, 4,658,151, Cl. 307-66.000.
Uebelhart, Hugo, to Magnetic Elektromotoren A.G. Liestal, Telescopic assembly, 4,635,492, 1-13-87, Cl. 74-89.150.
Ueberberg, Friedel: *See*—
Schwarz, Lothar; Ueberberg, Friedel; Kuehne, Rudolf; and Fischer, Dieter, 4,670,080, Cl. 156-307.500.
Ueberreiter, Ekkehard, Device for conveying components particularly integrated chips, from an input magazine to an output magazine, 4,694,964, 9-22-87, Cl. 209-549.000.
Ueberreiter, Ekkehard; and Willberg, Hans H., to Multitest Elektronische Systeme GmbH, Apparatus for testing and sorting oblong, electronic components, more particularly integrated chips, 4,703,858, 11-3-87, Cl. 209-573.000.
Uecker, Ronald T.; and Schultz, John R., to Milsco Manufacturing Company, Suspension for vehicle seat, 4,662,597, 5-5-87, Cl. 248-564.000.
Uecker, Ronald T.; and Slicker, Steven D., to MILSCO Manufacturing Company, Adjustable office chair, 4,706,963, 12-1-87, Cl. 297-316.000.
Ueda, Akihisa, to Hitachi, Ltd. Method and apparatus for detecting the uncontrollable operation of a control system, 4,710,928, 12-1-87, Cl. 371-16.000.
Ueda, Akinori; and Okamoto, Kouichi, to Mitsubishi Denki Kabushiki Kaisha, Rotor for a superconducting rotating electric machine, 4,642,503, 2-10-87, Cl. 310-214.000.
Ueda, Akinori, to Mitsubishi Denki Kabushiki Kaisha, Rotor for a superconducting rotating electric machine, 4,658,170, 4-14-87, Cl. 310-214.000.
Ueda, Akio: *See*—
Aonuma, Mitsuyoshi; Watanabe, Hiroyuki; Kawada, Haruki; Noguchi, Kohkichi; Ueda, Akio; Akita, Shuichi; Ohyama, Tetsuo; and Kase, Toshio, 4,647,625, Cl. 528-232.000.

Ueda, Akiteru: *See*—
Mutoh, Nobuyoshi; Sakai, Keijiro; Suzuki, Toshio; Ueda, Akiteru; Nandoh, Kenji; and Okajima, Ikuo. 4,688,162, Cl. 363-80.000.
Ueda, Shigeta; Hombu, Mitsuyuki; Honda, Kazuo; Ueda, Akiteru; Suzuki, Katsunori; and Shima, Seiya. 4,672,520, Cl. 363-37.000.

Ueda, Atsushi: *See*—
Iwata, Toshio; Komurasaki, Satoshi; and Ueda, Atsushi. 4,635,604, Cl. 123-425.000.
Iwata, Toshio; and Ueda, Atsushi. 4,637,245, Cl. 73-35.000.

Ueda, Chie: *See*—
Ueda, Iwao. 4,678,567, Cl. 210-150.000.
Ueda, Iwao. 4,680,111, Cl. 210-150.000.

Ueda, Chikai: *See*—
Yamauchi, Kouji; and Ueda, Chikai. 4,701,091, Cl. 414-70.000.

Ueda, Fujio: *See*—
Tanaka, Hiroyoshi; Suzuki, Mitsuo; and Ueda, Fujio. 4,698,194, Cl. 264-185.000.

Ueda, Fusao: *See*—
Enomoto, Hiroshi; Kawamata, Masanobu; Nomura, Akira; Aoyagi, Yoshiaki; and Ueda, Fusao. 4,657,907, Cl. 514-245.000.

Ueda, Haruhiko; Toyoda, Hidekazu; and Fukuda, Minoru, to Sheiseido Company, Ltd.; and Takeda Chemical Industries, Ltd. Pharmaceutical composition. 4,657,901, 4-14-87, Cl. 514-171.000.

Ueda, Hideaki, to Minolta Camera Kabushiki Kaisha. Electrophotographic photoreceptors containing hydrazone compounds as charge-transfer agents. 4,642,280, 2-10-87, Cl. 430-73.000.

Ueda, Hideki: *See*—
Yoshida, Eiichi; Aoki, Nobuyoshi; Suzuki, Toshimitsu; Hongo, Akira; Ueda, Hideki; and Nakata, Issei. 4,703,609, Cl. 53-431.000.

Ueda, Hikoji; Otsu, Akira; Sano, Kenji; and Takano, Katuyuki, to Fujikura Kasei Co., Ltd. Process for producing resin composition useful as electrophotograhic toner. 4,652,511, 3-24-87, Cl. 430-137.000.

Ueda, Hiraki: *See*—
Tone, Hitoshi; Miyamoto, Hisashi; Ueda, Hiraki; and Nakagawa, Kazuyuki. 4,684,648, Cl. 514-249.000.

Ueda, Hiroshi: *See*—
Karasaki, Toshihiko; Ueda, Hiroshi; Shintani, Michihiro; and Akagi, Katsuhiko. 4,662,735, Cl. 354-406.000.
Karasaki, Toshihiko; Matsui, Toru; and Ueda, Hiroshi. 4,696,558, Cl. 354-406.000.
Sawa, Shigeki; and Ueda, Hiroshi. 4,640,283, Cl. 128-395.000.
Taniguchi, Nobuyuki; Tominaga, Shinji; Yamamoto, Kouji; Ootsuka, Hiroshi; and Ueda, Hiroshi. 4,662,736, Cl. 354-412.000.

Ueda, Hiroyuki; and Kobata, Yoshihiro, to Canon Kabushiki Kaisha. Device for controlling printing pressure according to the kind of ink ribbon being used. 4,690,575, 9-1-87, Cl. 400-166.000.

Ueda, Hiroyuki: *See*—
Izumi, Toshiro; and Ueda, Hiroyuki. 4,703,632, Cl. 66-168.000.

Ueda, Hisahito: *See*—
Hirata, Yasushi; Kondo, Hitoshi; Otomo, Shigemitsu; and Ueda, Hisahito. 4,675,355, Cl. 524-236.000.

Ueda, Ikuo; Shiokawa, Youichi; and Manabe, Takashi, to Fujisawa Pharmaceutical Co., Ltd. Pyrimidoisoquinoline derivatives useful for treating allergies. 4,673,676, 6-16-87, Cl. 514-267.000.

Ueda, Ikuo; Shiokawa, Youichi; Manabe, Takashi; and Katsura, Yousuke, to Fujisawa Pharmaceutical Co., Ltd. Substituted pyrazolo [4,3-c]pyridines and their use as uricosuric, diuretic and anti-hypertensive agents. 4,675,324, 6-23-87, Cl. 514-293.000.

Ueda, Ikuo; Shiokawa, Youichi; Kato, Masayuki; Konishi, Nobukiyo; and Akahane, Atsushi, to Fujisawa Pharmaceutical Co., Ltd. Imidazoisoquinoline compounds useful as anti-ulcerative agents. 4,686,227, 8-11-87, Cl. 514-292.000.

Ueda, Ikuo; Shiokawa, Youichi; Manabe, Takashi; and Katsura, Yousuke, to Fujisawa Pharmaceutical Co., Ltd. 1,4-Dihydro[1]benzothiopyrano[4,3-c]pyrazole derivatives, compositions containing them, and pharmacological methods of using them. 4,692,444, 9-8-87, Cl. 514-406.000.

Ueda, Ikuo; Kobayashi, Masakazu; and Kitaguchi, Tadashi, to Fujisawa Pharmaceutical Co., Ltd. Cephem compounds and processes for preparation thereof. 4,703,046, 10-27-87, Cl. 514-202.000.

Ueda, Ikuo; and Kato, Masayuki, to Fujisawa Pharmaceutical Co., Ltd. Quinazolinone derivatives, processes for the preparation thereof and pharmaceutical composition comprising the same. 4,705,787, 11-10-87, Cl. 514-259.000.

Ueda, Iwao, to Ueda, Iwao; and Ueda, Chie. Activated sludge process bed. 4,678,567, 7-7-87, Cl. 210-150.000.

Ueda, Iwao, to Ueda, Iwao; and Ueda, Chie. Sewage treatment equipment with activated sludge process beds. 4,680,111, 7-14-87, Cl. 210-150.000.

Ueda, Jun; Tsukada, Hirokazu; and Nanba, Yoichi, to Oki Electric Industry Co., Ltd. PNPN semiconductor switches. 4,649,414, 3-10-87, Cl. 357-53.000.

Ueda, Kanji: *See*—
Haruna, Kazuo; Ueda, Kanji; and Uno, Masaru. 4,684,377, Cl. 55-26.000.

Ueda, Kazuhiko: *See*—
Matsuura, Masahiko; Dou, Nobuo; Yoshioka, Sadashichi; Okimoto, Haruo; and Ueda, Kazuhiko. 4,683,856, Cl. 123-436.000.

Ueda, Kazuhiro; Yamaguchi, Toshiaki; Kajiyama, Kouji; and Matsumoto, Osamu, to Mitsubishi Denki Kabushiki Kaisha. Electromagnetic proportional control valve. 4,714,089, 12-22-87, Cl. 137-614.180.

Ueda, Kazuo; and Joo, Katsuhiro, to Shikoku Kakooki Co., Ltd. Sealed container. 4,669,627, 6-2-87, Cl. 220-94.00R.

Ueda, Kazuo: *See*—
Kimata, Kazumasa; Ueda, Kazuo; and Kitai, Kiyokazu. 4,696,971, Cl. 525-71.000.
Kishida, Kazuo; Ueda, Kazuo; Kitai, Kiyokazu; and Matsumoto, Tsuruyoshi. 4,663,382, Cl. 524-504.000.
Kishida, Kazuo; Ueda, Kazuo; and Kaneda, Masahiro. 4,699,948, Cl. 525-85.000.

Ueda, Kazuya: *See*—
Nakayama, Nobuo; Nagamine, Kenzi; Ueda, Kazuya; and Sato, Fuminari. 4,703,186, Cl. 250-566.000.

Ueda, Kenji, to Omron Tateisi Electronics Co. Circuit resistance adjusting device. 4,713,602, 12-15-87, Cl. 323-354.000.

Ueda, Kenji: *See*—
Bochi, Hiroshi; Ueda, Kenji; and Komishi, Satoshi. 4,693,355, Cl. 193-2.00R.
Fukuda, Masao; Kakita, Yukio; Ueda, Kenji; Terashima, Kichi; and Bochi, Hiroshi. 4,711,345, Cl. 198-572.000.
Kamiya, Fumio; Nodera, Hisatoshi; Ueda, Kenji; Imazu, Kensuke; and Tomioka, Hideharu. 4,644,298, Cl. 331-65.000.
Masaki, Akio; Moriyasu, Yoshio; Ueda, Kenji; and Miyamoto, Kiyoshi. 4,654,471, Cl. 174-50.000.
Masaki, Akio; Moriyasu, Yoshio; Ueda, Kenji; Miyamoto, Kiyoshi; and Matsuoka, Yasushi. 4,704,524, Cl. 250-239.000.
Nishi, Toshiro; Murakami, Nobuaki; Ueda, Kenji; Shirakawa, Seiichi; Notomi, Akira; Hisamatsu, Kenichi; and Kancko, Shuzi. 4,686,158, Cl. 429-26.000.

Ueda, Koichi: *See*—
Honda, Chiba; Ueda, Koichi; and Suzuki, Akio. 4,686,178, Cl. 430-569.000.

Ueda, Koichiro: *See*—
Minami, Norio; Mathukura, Masayuki; Ueda, Koichiro; Tanaka, Satoru; and Igarashi, Toshiji. 4,650,798, Cl. 514-227.000.

Ueda, Koutarou; Hasegawa, Noboru; Machihara, Akio; Kosaka, Masaharu; Orii, Kohei; and Noguchi, Yoshiro, to Toyo Chemical Co., Ltd. Method for manufacturing corrugated tubes. 4,692,197, 9-8-87, Cl. 156-189.000.

Ueda, Kouzou; Nagumo, Daisuke; Shioto, Hirotetsu; and Kuriyama, Hiroaki, to Kyokuto Kaihatsu Kogyo Co., Ltd. Articulated belt conveyor. 4,682,686, 7-28-87, Cl. 198-844.000.

Ueda, Ksaku. Model flying vehicle with smooth landing. 4,674,986, 6-23-87, Cl. 446-39.000.

Ueda, Makoto: *See*—
Yoshikawa, Kiyoshi; Toko, Hisayuki; Ueda, Makoto; and Tamagaki, Hiroshi. 4,703,222, Cl. 313-362.100.

Ueda, Masahide; and Ohira, Tadashi, to Minolta Camera Kabushiki Kaisha. Electrostatic latent image developing apparatus. 4,708,451, 11-24-87, Cl. 355-3.0DD.

Ueda, Masahiko: *See*—
Moriya, Takashi; Yasunaga, Makoto; Ueda, Masahiko; and Yamamoto, Tetsuya. 4,647,236, Cl. 400-124.000.

Ueda, Masahiro; Hakamata, Kohei; and Tsuchiya, Seigo, to Nippondenso Co., Ltd. Rotary cutter for cutting a continuous corrugated strip. 4,685,318, 8-11-87, Cl. 72-185.000.

Ueda, Masahiro: *See*—
Asakura, Masahiko; Kawanabe, Tomohiko; Ueda, Masahiro; Kubota, Shunichi; Kushida, Noritaka; and Matsumoto, Yukihiro. 4,694,803, Cl. 123-440.000.

Ueda, Masaki, to Fuji Photo Film Co., Ltd. Magnetic tape cassette. 4,672,497, 6-9-87, Cl. 360-132.000.

Ueda, Masaki, to Fuji Photo Film Co., Ltd. Guide groove for a guard panel on a magnetic tape cassette. 4,680,660, 7-14-87, Cl. 360-132.000.

Ueda, Masami: *See*—
Oida, Susumu; Munemoto, Yoshikazu; Ueda, Masami; and Iio, Michiaki. 4,711,105, Cl. 68-23.200.

Ueda, Minoru: *See*—
Sakaguchi, Haruo; Suehiro, Teruyoshi; Terada, Kohsuke; Ueda, Minoru; Nagai, Kunio; Hashimoto, Toshie; Nishiyama, Hisaki; and Mohri, Masakazu. 4,703,791, Cl. 164-417.000.

Ueda, Motohiko: *See*—
Adachi, Ikuo; Hiramatsu, Yoshiharu; Ueda, Motohiko; and Kawakami, Masaru. 4,703,051, Cl. 514-291.000.

Ueda, Nobuo: *See*—
Takahashi, Keietsu; Ueda, Nobuo; Hazue, Masaaki; Yokoyama, Akira; and Ohmomo, Yoshiro. 4,645,660, Cl. 424-1.100.
Takahashi, Keietsu; Ueda, Nobuo; and Hazue, Masaaki. 4,666,697, Cl. 424-1.100.

Ueda, Norio: *See*—
Kamide, Takao; Ueda, Norio; and Nemoto, Akira. 4,634,332, Cl. 414-273.000.

Ueda, Noriyoshi; and Kitajima, Tadayuki, to Canon Kabushiki Kaisha. Image forming apparatus with two mode original handling system. 4,660,957, 4-28-87, Cl. 355-3.0SH.

Ueda, Noriyoshi: *See*—
Taniola, Hiroshi; and Ueda, Noriyoshi. 4,684,998, Cl. 358-293.000.

Ueda, Ryuzo: *See*—
Old, Lloyd J.; Lloyd, Kenneth O.; Oettgen, Herbert F.; Whitmore, Willet F.; Szkudlarek, Jerzy; Finstad, Connie L.; Morrissey, Donna; Ogata, Shun-ichiro; and Ueda, Ryuzo. 4,650,756, Cl. 435-68.000.

Ueda, Satoshi: *See*—
Katayama, Akifumi; Mori, Keijirou; and Ueda, Satoshi. 4,672,561, Cl. 364-556.000.
Katayama, Akifumi; Mori, Keijirou; Ueda, Satoshi; and Suwa, Katsuhiko. 4,672,561, Cl. 364-556.000.

Ueda, Sei: *See*—
Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, 4,636,152, Cl. 418-54.000.
Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, 4,676,726, Cl. 418-54.000.
Kawaguchi, Susumu; Hirahara, Takuho; Nakane, Kazuhiro; and Ueda, Sei, 4,704,076, Cl. 418-91.000.

Ueda, Shigeki; Hatagawa, Toyotsugu; and Kasai, Isao, to Matsushita Electric Industrial Co., Ltd. Heating appliance with internal non-volatile memory. 4,686,356, 8-11-87, Cl. 219-482.000.

Ueda, Shigeta; Hombu, Mitsuyuki; Honda, Kazuo; Ueda, Akiteru; Suzuki, Katsunori; and Shima, Seiya, to Hitachi, Ltd. Current-source power converting apparatus with self-extinction devices. 4,672,520, 6-9-87, Cl. 363-37.000.

Ueda, Shinji; and Nakajima, Junya, to Fuji Photo Film Co., Ltd. Method for developing color reversal photographic materials. 4,675,274, 6-23-87, Cl. 430-407.000.

Ueda, Shinjiro: *See*—
Kamohara, Hideaki; Fujioka, Kazumasa; Kobari, Toshiaki; Takahashi, Kunihiro; and Ueda, Shinjiro, 4,664,062, Cl. 118-719.000.

Ueda, Shuji; Nakada, Kunio; Fujino, Kazuhiko; Saeki, Hiroshi; and Fujishiro, Kenji, to Matsushita Electric Industrial Co., Ltd. Curved surface formation polishing apparatus. 4,656,787, 4-14-87, Cl. 51-50.00R.

Ueda, Sigei; Matsumoto, Kozo; Kanaiwa, Kiyoshi; and Adachi, Muneo, to Canon Kabushiki Kaisha. Device for converting code signals of one bit number into a code signal of a smaller bit number. 4,701,746, 10-20-87, Cl. 340-347.0DD.

Ueda, Sinji: *See*—
Yamada, Hirotada; Masai, Naruhito; Ueda, Sinji; Okuda, Takao; Fukasawa, Masatomo; Kato, Masuhiro; and Fukumura, Masataka, 4,705,784, Cl. 514-202.000.

Ueda, Takahisa; and Shiomi, Tomikazu, to Nippon Pillar Packing Co., Ltd. Gland packing. 4,705,722, 11-10-87, Cl. 428-365.000.

Ueda, Takemi; and Umezawa, Norio, to Matsushita Electric Industrial Co., Ltd. Axial gap type coreless electric motor with noise reduction. 4,677,335, 6-30-87, Cl. 310-268.000.

Ueda, Takuya: *See*—
Gomi, Shimpei; Ueda, Takuya; Nakagawa, Takao; and Tachibana, Masaharu, 4,663,022, Cl. 208-67.000.

Ueda, Tatsuo: *See*—
Minobe, Shinichi; and Ueda, Tatsuo, 4,707,017, Cl. 296-78.100.

Ueda, Toshiaki, to Hitachi, Ltd. Air-mix door control apparatus for an air conditioner for automobile. 4,697,734, 10-6-87, Cl. 236-13.000.

Ueda, Toshihiro; Imanishi, Masamichi; Iyama, Kazuo; Fukuhara, Akio; and Iwase, Ken, to Suntory Limited. Container for accommodating two kinds of liquids. 4,634,003, 1-6-87, Cl. 206-221.000.

Ueda, Toshihiro: *See*—
Fuji, Mitaru; Dobashi, Tomoyuki; Sasaki, Hisashi; Imanishi, Masamichi; and Ueda, Toshihiro, 4,674,654, Cl. 222-39.000.

Ueda, Toshio; Kageno, Kenji; Shimizu, Kiyoshi; Hasegawa, Sakuro; and Harada, Susumu, to Nitto Boseki Co., Ltd. Polymers of N-substituted secondary monoallylamines and their salts and process for producing the same. 4,644,042, 2-17-87, Cl. 526-204.000.

Ueda, Toshio; Kageno, Kenji; and Harada, Susumu, to Nitto Boseki Co., Ltd. Method for improving color fastness of reactive dyes on cellulose with allylamine copolymer. 4,678,474, 7-7-87, Cl. 8-543.000.

Ueda, Toshio; Sato, Yoshinori; and Harada, Susumu, to Nitto Boseki Co., Ltd. Process for producing poly(allylamine) derivatives. 4,680,360, 7-14-87, Cl. 526-310.000.

Ueda, Toshitsugu; Kohsaka, Fusao; Yamazaki, Daisuke; and Akazawa, Hideo, to Yokogawa Hokushin Electric Corporation. Apparatus for measuring pressure. 4,680,970, 7-21-87, Cl. 73-702.000.

Ueda, Tsunehisa: *See*—
Natsuume, Tadao; and Ueda, Tsunehisa, 4,652,435, Cl. 423-265.000.

Ueda, Tsunesuke, to Q.P. Corporation. Method for preparing fish-egg-like edible products. 4,702,921, 10-27-87, Cl. 426-48.000.

Ueda, Tsuyoshi: *See*—
Kondo, Tetsuro; and Ueda, Tsuyoshi, 4,693,358, Cl. 198-339.100.

Ueda, Yasufumi: *See*—
Ohmori, Akira; Yasuhara, Takashi; Izutani, Naoaki; and Ueda, Yasufumi, 4,644,043, Cl. 526-246.000.

Ueda, Yasuhiro: *See*—
Akui, Nobuaki; Ueda, Yasuhiro; and Suzuki, Akira, 4,653,477, Cl. 128-4.000.
Akui, Nobuaki; Ueda, Yasuhiro; and Suzuki, Akira, 4,715,360, Cl. 128-4.000.

Ueda, Yasuo; Kagitani, Yoshio; Komeda, Shircu; and Funakoshi, Satoshi, to Green Cross Corporation, The. Injectable aqueous solution containing hydrogensulfite and/or sulfite and anticarcerous benzodiazepine compound. 4,701,325, 10-20-87, Cl. 424-164.000.

Ueda, Yasutsugu; and Roberge, Guy, to Bristol-Myers Company. Carbapenem intermediates. 4,683,296, 7-28-87, Cl. 539-558.000.

Ueda, Yasuyoshi: *See*—
Hattori, Makoto; Nishikuri, Masao; and Ueda, Yasuyoshi, 4,710,320, Cl. 260-378.000.

Ueda, Yoshihiko: *See*—
Takarabe, Takashi; and Ueda, Yoshihiko, 4,708,792, Cl. 210-150.000.

Ueda, Yoshihiro; Ono, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto, to Mitsubishi Denki Kabushiki Kaisha. Ion beam generator. 4,692,627, 9-8-87, Cl. 250-423.00P.

Ueda, Yoshihiro; Ono, Kouichi; Oomori, Tatsuo; and Fujita, Shigeto, to Mitsubishi Denki Kabushiki Kaisha. Ion beam generator. 4,716,295, 12-29-87, Cl. 250-423.00P.

Ueda, Yoshio: *See*—
Uemura, Toshinobu; Okhuma, Toshiaki; Shinooka, Kiyonade; Ishikuro, Hiroshi; and Ueda, Yoshio, 4,690,822, Cl. 424-455.000.

Ueda, Yoshiteru: *See*—
Fujikawa, Tetsuzo; Yamaguchi, Yooichi; and Ueda, Yoshiteru, 4,647,835, Cl. 322-1.000.

Ueda, Yuji: *See*—
Minai, Masayoshi; and Ueda, Yuji, 4,683,323, Cl. 558-52.000.
Minai, Masayoshi; and Ueda, Yuji, 4,714,782, Cl. 568-347.000.

Ueda, Yujiro: *See*—
Arima, Keizi; Ueda, Yujiro; Yoshida, Toru; and Narita, Hiroshi, 4,651,976, Cl. 266-44.000.

Ueda, Yutaka; and Kiriake, Masaharu, to Murata Kikai Kabushiki Kaisha. Article selecting and conveying system. 4,681,231, 7-21-87, Cl. 209-656.000.

Ueda, Yutaka; and Yamamuro, Tetsu, to Ricoh Company, Ltd. Optical information recording medium. 4,711,798, 12-8-87, Cl. 428-65.000.

Ueda, Yutaka: *See*—
Abe, Michiharu; Umehara, Masaakira; Sato, Tsutomu; Oba, Hideaki; Ueda, Yutaka; and Kunikane, Makoto, 4,696,892, Cl. 430-495.000.
Matsui, Isamu; Tone, Shoichi; and Ueda, Yutaka, 4,660,370, Cl. 57-281.000.
Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, 4,656,121, Cl. 430-495.000.
Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Oba, Hideaki; and Ueda, Yutaka, 4,714,667, Cl. 430-270.000.

Uedaira, Satoru; Yamanoi, Hiroshi; Yamaguchi, Takashi; Suzuki, Masayuki; and Tamura, Hidemasa, to Sony Corporation. Method for manufacturing dielectric fine powder of $Ba_{1-x}Sr_xTiO_3$. 4,677,083, 6-30-87, Cl. 423-598.000.

Uedaira, Satoru: *See*—
Makino, Yoshimi; Ochiai, Yoshitaka; Uedaira, Satoru; Hotta, Kazuhide; Aso, Koichi; and Hayakawa, Masatoshi, 4,639,278, Cl. 148-108.000.
Yamanoi, Hiroshi; Uedaira, Satoru; Suzuki, Masayuki; and Tamura, Hidemasa, 4,668,500, Cl. 423-598.000.

Uede, Hisashi: *See*—
Endo, Yoshihiro; Mizukami, Etsuo; Kishishita, Hiroshi; and Uede, Hisashi, 4,686,110, Cl. 427-38.000.
Fujioka, Yoshihide; Harada, Shigeyuki; Ohba, Toshihiro; Kusatani, Yoshiharu; and Uede, Hisashi, 4,686,426, Cl. 315-169.300.

Uegaki, Masatoshi: *See*—
Kotera, Norio; Uegaki, Masatoshi; Yoshimura, Masakatsu; Masaki, Shinzaburo; Kaneoya, Tatsuo; Miyaoka, Takashi; Maegawa, Yuzo; and Fukasawa, Akira, 4,695,407, Cl. 760-378.000.

Uegaki, Yoshinori: *See*—
Fuji, Tsuguo; Yamamoto, Katsumasa; Aratani, Tetsuo; and Uegaki, Yoshinori, 4,663,431, Cl. 528-388.000.

Ueguri, Shigeharu: *See*—
Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; Yamada, Osamu; and Ueguri, Shigeharu, 4,672,612, Cl. 371-37.000.

Ueguri, Shigeo: *See*—
Awano, Yoshiro; Suzuki, Hiroshi; Mizuno, Takaji; Ueguri, Shigeo; and Higashida, Kenji, 4,697,062, Cl. 219-130.510.

Ueguri, Tomoaki, to Sharp Kabushiki Kaisha. Developing color display device of copying machine. 4,662,737, 5-5-87, Cl. 355-4.000.

Ueha, Sadayuki: *See*—
Okada, Kozo; Masuda, Michiyuki; and Ueha, Sadayuki, 4,634,916, Cl. 310-323.000.

Uehara, Haruo; and Nakaoka, Tsutomu, to Saga University. Rotary blade type fluid condenser. 4,658,890, 4-21-87, Cl. 165-92.000.

Uehara, Haruo; and Omata, Hiroshi, to Canon Kabushiki Kaisha. Information recording disk. 4,716,063, 12-29-87, Cl. 428-65.000.

Uehara, Hidehiko, to Sanshin Kogyo Kabushiki Kaisha. Propeller damping arrangement for marine propulsion device. 4,701,151, 10-20-87, Cl. 464-89.000.

Uehara, Hitoshi: *See*—
Yoshioka, Hiroshi; Ono, Ichiro; and Uehara, Hitoshi, 4,709,065, Cl. 556-428.000.

Uehara, Katsuharu: *See*—
Nozawa, Yoshio; Ochiai, Izumi; Kitayama, Yukio; Miyagi, Masahiro; Uehara, Katsuharu; Deguchi, Takahiko; Morita, Keikichi; Arai, Katsuo; and Nakayama, Tamotsu, 4,698,904, Cl. 29-726.000.

Uehara, Kazao: *See*—
Ishizaki, Naoki; Nunotani, Sadao; Tada, Tatsumi; Uehara, Kazuo; and Akushichi, Shuki, 4,646,622, Cl. 91-446.000.

Uehara, Keiichi: *See*—
Terajima, Yushi; Tokuda, Katsuhiko; Nakamura, Shoji; Uehara, Keiichi; Ichikawa, Hideyuki; and Iwakami, Shinobu, 4,663,180, Cl. 252-522.00R.

Uehara, Keijiro; Higuchi, Hisayuki; and Hayasaka, Akio, to Hitachi, Ltd. Method of forming bipolar transistors with graft base regions. 4,640,721, 2-3-87, Cl. 148-188.000.

Uehara, Keijiro, to Hitachi, Ltd. Method of making a semiconductor including forming graft/extrinsic and intrinsic base regions. 4,675,983, 6-30-87, Cl. 29-576.00B.

Uehara, Kiyohiro; and Sakai, Shigeyuki, to Ricoh Company, Ltd. Method of manufacturing liquid crystal display unit. 4,654,965, 4-7-87, Cl. 29-830.000.

Uehara, Kiyohiro: *See*—
Ohta, Wasaburo; Enomoto, Takamichi; and Uehara, Kiyohiro, 4,678,285, Cl. 350-345.000.

Uehara, Kunaki: *See*—
Kutsukake, Mitsuhiro; Murata, Takahiko; Saito, Gunji; Komatsuzaki, Takeshi; Uehara, Kunaki; Kato, Toshimobu; Hattori, Takeo; and Hayashida, Morimasa, 4,711,077, Cl. 56-320.200.

Uehara, Makoto; and Hashimoto, Sumio, to Nippon Kogaku K. K. Mirror converging-type illumination optical system. 4,637,691, 1-20-87, Cl. 350-432.000.

Uehara, Makoto: *See*—
Tanimoto, Akikazu; Matsuura, Toshio; Murakami, Setro; Uehara, Makoto; and Suwa, Kyoichi, 4,677,301, Cl. 250-548.000.

Uehara, Minoru: *See*—
Abe, Hiraku; Uehara, Minoru; and Aikawa, Chiaki, 4,707,062, Cl. 350-96.160.

Uehara, Mitsuru: *See*—
Setoguti, Syohati; Nakatake, Yoshiteru; Uehara, Mitsuru; and Kudou, Masayuki, 4,692,835, Cl. 361-104.000.

Uehara, Ryo: *See*—
Okita, Masaya; and Uehara, Ryo, 4,651,108, Cl. 329-110.000.

Uehara, Shouji: *See*—
Masuko, Akinori; Kuroiwa, Wataru; Uehara, Shouji; Uekusa, Tsutomu; Rast, Robert M.; and Campbell, W. Sherwood, 4,686,564, Cl. 358-86.000.

Uehara, Tsukasa, to Canon Kabushiki Kaisha. Mechanism for automatically loading a cassette in recording and/or reproducing apparatus including pinching means for applying varying pinching action. 4,716,477, 12-29-87, Cl. 360-97.000.

Uehara, Tsutomu: *See*—
Hosoya, Masahiro; Uehara, Tsutomu; and Tomura, Shinya, 4,656,965, Cl. 118-649.000.

Uehara, Yoshiyuki: *See*—
Kajita, Hiroshi; Ujino, Koji; and Uehara, Yoshiyuki, 4,697,911, Cl. 355-1.05H.

Uehara, Yutaka: *See*—
Ijichi, Masakatsu; Uehara, Yutaka; Sakaguchi, Masahiro; and Imamura, Shinichi, 4,706,607, Cl. 119-16.000.

Uehlinger, Werner: *See*—
Kimbell, John; and Uehlinger, Werner, 4,697,688, Cl. 198-339.100.

Uehlinger, Werner H., and Franek, Jozef T., to KM-Engineering AG. Method of making scroll strip blanks. 4,681,001, 7-21-87, Cl. 83-37.000.

Uejima, Atsushi, to Fuji Photo Film Co., Ltd. Focussing error detection device for use in optical disk type recording system. 4,682,315, 7-21-87, Cl. 369-45.000.

Uejima, Tamotu: *See*—
Itoh, Hiroshi; Nakagawa, Toshimi; Nitta, Atsuhiko; Tanaka, Tomio; Kamio, Hideo; Enoshita, Ryosuke; Uejima, Tamotu; Ouchi, Takahiro; Abe, Kazuki; and Kobayashi, Sadao, 4,683,258, Cl. 524-434.000.

Uekado, Kazutaka; and Okada, Kazuo, to Matsushita Refrigeration Co.; and Takeda Chemical Industries, Ltd. Heat insulating body. 4,668,555, 5-26-87, Cl. 428-69.000.

Ueki, Giichi. Method of manufacturing a burning accelerator for fuel oils such as petroleum. 4,666,458, 5-19-87, Cl. 44-56.000.

Ueki, Junzo: *See*—
Yoshino, Shigeru; Ueki, Junzo; Shibuya, Ichiro; Kawada, Shigeo; Iino, Akira; Tanzaki, Hiromasa; and Murano, Kazuo, 4,670,979, Cl. 29-838.000.

Ueki, Noboru, to Kanto Chuutetsu Kabushiki Kaisha. Retainer ring for coupling together water supply pipes or the like. 4,664,426, 5-12-87, Cl. 285-337.000.

Ueki, Noriyuki: *See*—
Tamba, Shinichi; and Ueki, Noriyuki, 4,697,557, Cl. 123-319.000.

Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, deceased (by Makishima, Nobuko, legal representative), to Toa Nenryo Kogyo Kabushiki Kaisha. Block copolymer containing a methacrylate ester block. 4,704,433, 11-3-87, Cl. 525-242.000.

Ueki, Satoshi: *See*—
Kohora, Tadanao; Ueki, Satoshi; Tachikawa, Mamoru; Imai, Chihiro; and Makishima, Tokuo, deceased, 4,647,550, Cl. 502-115.000.
Tachikawa, Mamoru; Ueki, Satoshi; Sakuma, Masato; Imai, Chihiro; and Makishima, Tokuo, 4,678,767, Cl. 502-104.000.
Tachikawa, Mamoru; Sakuma, Masato; Ueki, Satoshi; Imai, Chihiro; and Makishima, Tokuo, 4,686,199, Cl. 502-104.000.

Ueki, Satoshi, legal representative: *See*—
Makishima, Tokuo, deceased; Makishima, Nobuko, legal representative; Ueki, Satoshi, legal representative; and Imai, Chichiro, legal representative, 4,705,830, Cl. 525-333.400.

Ueki, Takashi; and Ishikawa, Yoshihiro, to Rinnai Kabushiki Kaisha; and Tokyo Gas Kabushiki Kaisha. Safety apparatus for combustion device. 4,638,789, 1-27-87, Cl. 126-351.000.

Ueki, Toru: *See*—
Masho, Yukio; Kakimi, Shigeru; Ueki, Toru; Miyauchi, Satoshi; Ohigashi, Yugio; and Kurohata, Hitoshi, 4,705,154, Cl. 194-319.000.

Uekita, Tadayuki: *See*—
Hatanaka, Masayoshi; and Uekita, Tadayuki, 4,667,095, Cl. 250-226.000.

Uekusa, Tsutomu: *See*—
Masuko, Akinori; Kuroiwa, Wataru; Uehara, Shouji; Uekusa, Tsutomu; Rast, Robert M.; and Campbell, W. Sherwood, 4,686,564, Cl. 358-86.000.

Uekusa, Yasuyuki: *See*—
Fukuhara, Hiroshige; Takai, Hideo; Uekusa, Yasuyuki; and Kishi, Hisao, 4,672,382, Cl. 342-357.000.

Uematsu, Hiroshi: *See*—
Ando, Michihiro; Kawajiri, Ryoichi; and Uematsu, Hiroshi, 4,669,640, Cl. 222-541.000.

Uematsu, Hiroyuki: *See*—
Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358-236.000.

Uematsu, Ikuo; and Takahashi, Toshio, to Hitachi, Ltd. Electromagnetic flow meter. 4,676,112, 6-30-87, Cl. 73-861.170.

Uematsu, Katsumi: *See*—
Takai, Yoshihiro; Uematsu, Katsumi; and Suzuki, Michio, 4,661,001, Cl. 400-103.000.

Uematsu, Kenji: *See*—
Kameda, Naomi; and Uematsu, Kenji, 4,663,642, Cl. 346-217.00.

Uematsu, Kimio; and Ezawa, Akira, to Nippon Kogaku K. K. Battery containing apparatus for cameras. 4,666,278, 5-19-87, Cl. 354-289.00.

Uematsu, Kimio, to Nippon Kogaku K. K. Film guide device for a camera. 4,685,790, 8-11-87, Cl. 354-203.000.

Uematsu, Ryosuke; Ushioda, Toyoji; and Fukuchi, Hiromichi, to Nec Corporation. Drop-on-demand ink-jet printing apparatus. 4,688,60, 8-18-87, Cl. 346-1.100.

Uematsu, Tadayuki, to Furukawa Electric Co., Ltd., The. Water impervious rubber or plastic insulated power cable. 4,703,134, 10-27-87, Cl. 174-106.05C.

Uematsu, Takao; Komatsuzaki, Shigeki; Nakano, Fumio; and Takamura, Tomoe, to Hitachi, Ltd. Emulsion type liquid lubricant for metal forming, process for preparing the lubricant and process for metal forming with the lubricant. 4,657,685, 4-14-87, Cl. 252-32.500.

Uematsu, Tamon; Inoue, Satoru; and Yamashita, Norihisa, to Sumitomo Chemical Company, Ltd. Benzoxazolone-2 compounds and fungicidal use thereof. 4,670,451, 6-2-87, Cl. 514-375.000.

Uematsu, Yoshuki; and Sentoku, Hideshi, to Laurel Bank Machine Co., Ltd. Automatic coin depositing and paying machine. 4,635,867, 1-13-87, Cl. 133-3.00R.

Uematsu, Yoshihiro: *See*—
Maruhashi, Shigeaki; Hoshino, Kazuo; Uematsu, Yoshihiro; Miyakusu, Katsuhisa; and Fujimura, Takehiko, 4,652,428, Cl. 420-42.000.

Uemiya, Takafumi: *See*—
Kohjiya, Shinzo; Yamashita, Shinzo; Irie, Masahiro; Oowa, Yoshitaka; and Uemiya, Takafumi, 4,656,245, Cl. 528-405.000.
Ohsawa, Yoshitaka; Shibata, Yutaka; Niwa, Shin-ichiro; Nishimura, Akira; and Uemiya, Takafumi, 4,708,833, Cl. 264-1.500.

Uemori, Satoshi, to Mita Industrial Co., Ltd. Apparatus for reversely turning side of recording paper. 4,671,503, 6-9-87, Cl. 271-65.000.

Uemura, Fumiko: *See*—
Omura, Ikuo; Yamauchi, Junichi; Nagase, Yoshinori; and Uemura, Fumiko, 4,650,847, Cl. 526-376.000.

Uemura, Hiroki, to Pioneer Electronic Corporation. Jamming signal generating circuit. 4,651,204, 3-17-87, Cl. 360-7.000.

Uemura, Hiroshi: *See*—
Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,662,484, Cl. 188-73.450.
Adachi, Yoshiharu; Fujimori, Fumio; Kondo, Toshio; Uemura, Hiroshi; and Shibatani, Juichi, 4,678,064, Cl. 188-73.450.

Uemura, Hiroyuki: *See*—
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kaku; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,647,310, Cl. 106-22.000.
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kaku; Aruga, Tamotsu; Uemura, Hiroyuki; and Nagai, Kiyofumi, 4,711,668, Cl. 106-22.000.
Shimada, Masaru; Kawanishi, Toshiyuki; Murakami, Kaku; Aruga, Tamotsu; and Uemura, Hiroyuki, 4,713,113, Cl. 106-22.000.

Uemura, Isamu; and Yamamoto, Kazumasa, to Kokusan Kinzoku Kogyo Kabushiki Kaisha. Automotive door handle container. 4,681,357, 7-21-87, Cl. 292-336.300.

Uemura, Isamu: *See*—
Fukasawa, Takeshi; and Uemura, Isamu, 4,634,161, Cl. 292-336.300.

Uemura, Kaoru; Ishitani, Tohru; and Tamura, Hifumi, to Hitachi, Ltd. Liquid metal ion source. 4,680,507, 7-14-87, Cl. 315-111.810.

Uemura, Kazuho: *See*—
Honda, Yoshiyuki; Esaki, Mitsunobu; Minagawa, Yoshiji; Uemura, Kazuho; and Inoue, Masahiro, 4,665,544, Cl. 379-104.000.

Uemura, Michihiko: *See*—
Okada, Takeshi; Hashimoto, Haruto; and Uemura, Michihiko, 4,691,178, Cl. 333-143.000.

Uemura, Ryuzo: *See*—
Tateoka, Yasuo; Uemura, Ryuzo; and Sagawa, Takatoshi, 4,708,908, Cl. 428-423.100.

Uemura, Sashiro; and Iwade, Motoo, to ISE Electronics Corporation. Fluorescent display device. 4,688,030, 8-18-87, Cl. 340-781.000.

Uemura, Seiichi; Hirose, Takao; Sohda, Yoshio; Sakamoto, Takayoshi; and Katoh, Kenji, to Nippon Oil Company, Limited. Process for producing pitch carbon fibers. 4,656,022, 4-7-87, Cl. 423-447.200.

Uemura, Seiji: *See*—
Komatsu, Shinichi; Uemura, Seiji; and Komatsu, Koichi, 4,653,339, Cl. 74-422.000.
Komatsu, Shinichi; Uemura, Seiji; and Komatsu, Koichi, 4,669,364, Cl. 92-128.000.

Uemura, Takashi: *See*—
Hattori, Hiroyuki; Uemura, Takashi; and Yamauchi, Toshio, 4,701,305, Cl. 422-73.000.

Uemura, Toshinobu; Okhuma, Toshiaki; Shinooka, Kiyohide; Ishikuro, Hiroshi; and Ueda, Yoshio, to Fujisawa Pharmaceutical Co., Ltd. Novel drug carrier and pharmaceutical preparation comprising the same. 4,690,822, 9-1-87, Cl. 424-455.000.

Uemura, Toshinobu; Shinooka, Kiyohide; and Kajiho, Tokuaki, to Fujisawa Pharmaceutical Co., Ltd. Sustained release tablet. 4,695,467, 9-22-87, Cl. 424-502.000.

Uemura, Yahiro; and Funakoshi, Satoshi, to Green Cross Corporation, The. Gamma-globulin preparation for intravenous administration. 4,692,331, 9-8-87, Cl. 424-85.000.

Uemura, Yahiro; Ohmura, Takao; Ohmizu, Akimasa; Sumi, Akinori; Ohtani, Wataru; Sasanishi, Yoshitaka; Morise, Hiroshi; Arimura, Hirofumi; and Suyama, Tadakazu, to Green Cross Corporation. Process for the purification of HBsAg. 4,694,074, 9-15-87, Cl. 530-417.000.

Uemura, Yasuhiro, to Teac Corp.; and Nippon Landex Ltd. Loading and ejecting mechanism for a magnetic tape cassette apparatus. 4,701,817, 10-20-87, Cl. 360-96.500.

Uemura, Yuji. *See*—
Oshita, Sanchiro; Mouri, Toyohiko; and Uemura, Yuji, 4,664,211, Cl. 180-142.000.

Uemura, Yukio. *See*—
Fujita, Masahiro; and Uemura, Yukio, 4,650,007, Cl. 173-12.000.
Fujita, Masahiro; and Uemura, Yukio, 4,691,786, Cl. 173-12.000.

Uenishi, Noboru. *See*—
Doi, Yoshihiko; Kuroishi, Nobuhito; Ochi, Shigeki; and Uenishi, Noboru, 4,710,345, Cl. 419-28.000.

Ueno, Atsushi; and Abumi, Takao, to Sharp Kabushiki Kaisha. Video signal superimposing device. 4,639,768, 1-27-87, Cl. 358-22.000.

Ueno, Etsuko. *See*—
Nakamura, Usao; Takao, Makoto; Ueno, Etsuko; and Kawaguchi, Kichitaro, 4,636,471, Cl. 435-280.000.

Ueno, Fumio; Yamakawa, Takeshi; and Shirai, Yuji, to Omron Tateisi Electronics Co. Fuzzy logic basic circuit and fuzzy logic integrated circuit operable in current mode. 4,694,418, 9-15-87, Cl. 364-807.000.

Ueno, Hajime. *See*—
Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, 4,633,826, Cl. 123-90.310.
Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, 4,637,354, Cl. 123-55.0VF.

Ueno, Hideo; Kuno, Hiroshi; and Hamabe, Yoshifumi, to Brother Kogyo Kabushiki Kaisha. Electronic typewriter which prints selected portions of a text. 4,639,151, 1-27-87, Cl. 400-63.003.

Ueno, Hideo; Kuno, Hiroshi; and Hamabe, Yoshifumi, to Brother Industries, Ltd. Printer which determines whether the text in memory can fit on a sheet of paper. 4,671,683, 6-9-87, Cl. 400-61.000.

Ueno, Hideo, to Brother Kogyo Kabushiki Kaisha. Print head shifting apparatus for electronic typewriter or the like. 4,684,274, 8-4-87, Cl. 400-320.000.

Ueno, Hideo; Hattori, Hiroshi; Maeda, Kumiko; and Yamada, Keiko, to Brother Kogyo Kabushiki Kaisha. Printer with display for double-width character. 4,695,172, 9-22-87, Cl. 400-83.000.

Ueno, Hideo. *See*—
Hattori, Shigenori; Ueno, Hideo; Uchida, Toyohisa; and Kinoshita, Naohisa, 4,665,407, Cl. 346-76.0PH.
Kojima, Yasunnchi; Ueno, Hideo; Hayashi, Yasuhiro; Suzuki, Makoto; and Furukawa, Satoshi, 4,671,684, Cl. 400-63.000.

Ueno, Hidetoshi. *See*—
Akiyama, Shigeru; Ueno, Hidetoshi; Imagawa, Koji; Kitahara, Akira; Nagata, Sumio; Morimoto, Kazuo; Nishikawa, Tooru; and Itoh, Masao, 4,713,277, Cl. 428-131.000.

Ueno, Hideyuki. *See*—
Kato, Masami; and Ueno, Hideyuki, 4,660,718, Cl. 206-343.000.

Ueno, Hiroaki. *See*—
Ogawa, Toshiya; Ueno, Hiroaki; Yamada, Toshiaki; and Haganuma, Tomoyuki, 4,716,543, Cl. 364-900.000.

Ueno, Hiroshi. *See*—
Hiroyuki, Furuhashi; Yamamoto, Tadashi; Imai, Masafumi; and Ueno, Hiroshi, 4,693,990, Cl. 502-116.000.
Imai, Masafumi; Yamamoto, Tadashi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,652,541, Cl. 502-119.000.
Imai, Masafumi; Yamamoto, Tadashi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,711,939, Cl. 526-124.000.
Kamijo, Ken; Shimizu, Kenzo; and Ueno, Hiroshi, 4,655,503, Cl. 297-238.000.
Machii, Akihiko; Ikegami, Hiroo; Ishinabe, Masao; Imazu, Katsuhiro; and Ueno, Hiroshi, 4,692,810, Cl. 358-256.000.
Maruyama, Kouji; Nomura, Takeshi; Ueno, Hiroshi; and Inaba, Naomi, 4,686,265, Cl. 526-125.000.
Tatra, Kazuo; Morofuji, Akihiko; Kobayashi, Seishichi; and Ueno, Hiroshi, 4,683,263, Cl. 525-57.000.
Yamamoto, Tadashi; Imai, Masafumi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,654,318, Cl. 502-119.000.
Yamamoto, Tadashi; Imai, Masafumi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,711,940, Cl. 526-124.000.

Ueno, Katsuji; Nagaoka, Kenji; Miyashita, Akira; and Ebisu, Satoshi, to Sumitomo Chemical Company, Limited. Process for producing formed articles of aromatic polyamide-imide resin. 4,639,344, 1-27-87, Cl. 264-83.000.

Ueno, Katsunori, to Fuji Electric Corporate Research and Development Co., Ltd. Signal conversion circuit for photosensor array. 4,645,955, 2-24-87, Cl. 307-518.000.

Ueno, Katsuo. *See*—
Dearden, Geoffrey C.; Speare, Edward J.; Ueno, Katsuo; and Jones, Donald N., 4,673,201, Cl. 285-333.000.

Ueno, Koichi. *See*—
Ito, Kimiaki; Ueno, Tetsuo; Ueno, Koichi; and Ishii, Susumu, 4,691,659, Cl. 114-144.00R.

Ueno, Kotaro. *See*—
Iwashita, Yukihiro; and Ueno, Kotaro, 4,660,935, Cl. 350-336.000.

Ueno, Kouichi. *See*—
Nakahara, Yoshihiko; Muramatsu, Masao; and Ueno, Kouichi, 4,682,017, Cl. 235-492.000.

Ueno, Kuniki; and Takahashi, Naotomi, to Mitsui Mining and Smelting Co., Ltd. Process for surface treatment of copper product. 4,640,747, 2-3-87, Cl. 204-37.100.

Ueno, Masahiro; and Naito, Takashi, to Sony Corporation. Disc player. 4,653,039, 3-24-87, Cl. 369-75.200.

Ueno, Masakazu, to Fuji Electric Co., Ltd. Layered solid state color photosensitive device. 4,656,109, 4-7-87, Cl. 430-46.000.

Ueno, Masakazu; and Kato, Toshiaki, to Fuji Electric Company Ltd.; and Fuji Electric Corporate Research and Development Co., Ltd. Surface roughening method. 4,664,748, 5-12-87, Cl. 156-659.100.

Ueno, Masakazu, to Fuji Electric Co., Ltd. Liquid crystal matrix display device having opposed diode rings on substrates. 4,709,992, 12-1-87, Cl. 350-339.00R.

Ueno, Masakazu. *See*—
Kato, Toshiaki; Ueno, Masakazu; and Nishiura, Masaharu, 4,698,494, Cl. 250-211.00R.
Nishiura, Masaharu; and Ueno, Masakazu, 4,634,883, Cl. 250-578.000.

Ueno, Masao; and Kubota, Hironori, to Nisshin Flour Milling Co., Ltd.; and Nisshin Chemicals Co., Ltd. Stabilized pharmaceutical composition containing an isocarbostyril derivative. 4,666,919, 5-19-87, Cl. 514-309.000.

Ueno, Masato, to Kyocera Kabushiki Kaisha. Mold for use in dental precision casting. 4,682,644, 7-28-87, Cl. 164-359.000.

Ueno, Masato. *See*—
Kusano, Takae; and Ueno, Masato, 4,634,381, Cl. 433-172.000.
Kusano, Takae; and Ueno, Masato, 4,634,382, Cl. 433-182.000.
Kusano, Takae; Ueno, Masato; and Hirakiuchi, Masanori, 4,654,006, Cl. 433-168.100.

Ueno, Masatoshi. *See*—
Taniguchi, Hiroshi; Tanizawa, Mitsumasa; and Ueno, Masatoshi, 4,687,313, Cl. 354-320.000.

Ueno, Masayuki. *See*—
Koike, Yuzuru; Koike, Akihiko; and Ueno, Masayuki, 4,640,244, Cl. 123-339.000.

Ueno, Michio; Miyagi, Toshimi; and Yamaguchi, Soji, to Murata Manufacturing Co., Ltd. Fly-back transformer with reduced ringing. 4,639,663, 1-27-87, Cl. 323-356.000.

Ueno, Mitsushi; Shirogami, Tamotsu; and Segawa, Noboru, to Tokyo Shibaura Denki Kabushiki Kaisha. Fuel cell electrolyte matrix and method for manufacturing the same. 4,661,423, 4-28-87, Cl. 429-41.000.

Ueno, Moriaki, to Alps Electric Co., Ltd. Voltage controlled oscillator with series connected resonance element and switched capacitance. 4,638,264, 1-20-87, Cl. 331-117.00D.

Ueno, Nobuyuki. *See*—
Ohmae, Kenichi; Tateisi, Kazuma; Shinohara, Yoshitsugu; and Ueno, Nobuyuki, 4,673,802, Cl. 235-379.000.

Ueno, Osamu. *See*—
Furusawa, Mitsuji; Ueno, Osamu; and Kobayashi, Hideyuki, 4,663,736, Cl. 364-900.000.

Ueno, Ryuzo; Kanayama, Tatsuo; Fujita, Yatsuka; and Yamamoto, Munemitsu, to Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyujo. Liquid bactericide for foods and food processing machines or utensils, employing a synergistic mixture of ethyl alcohol, an organic acid and phosphoric acid. 4,647,458, 3-3-87, Cl. 424-128.000.

Ueno, Ryuzo; Itoh, Shigeru; Fujimoto, Shine; Komatsu, Yuniko; and Tsuchiya, Hiroaki, to Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyujo. Process for producing azo pigments. 4,655,844, 4-7-87, Cl. 106-309.000.

Ueno, Ryuzo; Sakota, Kazuyuki; and Nakamura, Yasunori, to Kabushiki Kaisha Ueno Seiyaku Oyo Kenkyujo. Process for producing wholly aromatic polyesters. 4,684,712, 8-4-87, Cl. 528-190.000.

Ueno, Saburo; Yoshikumi, Chikao; Omura, Yoshio; Fujii, Takayoshi; Wada, Toshihiko; Takahashi, Eiichi; and Hirose, Fumio, to Kureha Kagaku Kogyo Kabushiki Kaisha. Nitrogen-containing polysaccharide. 4,699,787, 10-13-87, Cl. 424-95.000.

Ueno, Sadayasu, to Hitachi, Ltd. Oxygen sensor. 4,650,560, 3-17-87, Cl. 204-410.000.

Ueno, Sadayasu. *See*—
Itsuji, Takayuki; and Ueno, Sadayasu, 4,676,213, Cl. 123-440.000.
Sato, Kanemasa; Ueno, Sadayasu; and Ichikawa, Norio, 4,657,660, Cl. 204-427.000.

Ueno, Satoshi. *See*—
Miyawaki, Yoshinori; Ueno, Satoshi; Egawa, Satoshi; and I
Shirasaki, Osamu, 4,703,760, Cl. 128-681.000.

Ueno, Shigeto; Ohnishi, Masanori; Nakamura, Yuji; and Tanaka, Shinichi, to Matsushita Electric Industrial Co., Ltd. Tape recorder with improved tape cassette pad shifter. 4,639,814, 1-27-87, Cl. 360-130.100.

Ueno, Shinji; and Koga, Naoki. Method of generating oxygen for emergency use. 4,683,130, 7-28-87, Cl. 423-579.000.

Ueno, Shoji. *See*—
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; Ueno, Shoji; Komura, Makoto; and Shichijo, Shunichi, 4,660,099, Cl. 358-342.000.

Ueno, Shyuichi. *See*—
Machida, Toyoji; and Ueno, Shyuichi, 4,709,472, Cl. 29-623.000.

Ueno, Susumu; Kuroda, Koutti; Nomura, Hirokazu; and Tateno, Shigeru, to Shin-Etsu Chemical Co., Ltd. Method for the preparation of a laminate. 4,637,851, 1-20-87, Cl. 156-272.600.
Ueno, Susumu; Hoshida, Shigehiro; and Nomura, Hirokazu, to Shin-Etsu Chemical Co., Ltd. Aromatic polyamide fiber-based composite prepreg. 4,664,936, 5-12-87, Cl. 427-38.000.
Ueno, Susumu: *See*—
Asai, Michihiko; Shimura, Yukio; Tsuda, Keishiro; Ueno, Susumu; Nomura, Hirokazu; and Imada, Kiyoshi, 4,639,379, Cl. 427-40.000.
Suzuki, Nichiro; Ogushi, Yoshimi; Imai, Kiyoshi; Ohta, Nobuhiro; and Ueno, Susumu, 4,639,285, Cl. 156-272.600.
Ueno, Tadatsugu: *See*—
Yano, Naomichi; Ueno, Tadatsugu; and Tsuboi, Shigeru, 4,715,978, Cl. 252-70.000.
Ueno, Takashi; and Abo, Toshimi, to Nissan Motor Co., Ltd. Acceleration detecting device for a turbocharger system and method of operation. 4,651,561, 3-24-87, Cl. 73-115.000.
Ueno, Takashi; Abo, Toshimi; and Sumizawa, Akio, to Nissan Motor Co., Ltd. Device for controlling the supercharging pressure of a turbocharger. 4,660,382, 4-28-87, Cl. 60-602.000.
Ueno, Takashi; and Abo, Toshimi, to Nissan Motor Co., Ltd. Method of and apparatus for controlling supercharge pressure for a turbocharger. 4,697,422, 10-6-87, Cl. 60-602.000.
Ueno, Takashi; and Abo, Toshimi, to Nissan Motor Co., Ltd. Method of and apparatus for controlling supercharge pressure for a turbocharger. 4,698,972, 10-13-87, Cl. 60-602.000.
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Abo, Toshimi; Ueno, Takashi; and Sumizawa, Akio, 4,685,302, Cl. 60-602.000.
Ueno, Takehiko: *See*—
Ujihara, Tsunenobu; Mitsuhashi, Takamichi; and Ueno, Takehiko, 4,689,550, Cl. 323-354.000.
Ueno, Takeshi: *See*—
Hotzumi, Shinichi; Abe, Norio; Ueno, Takeshi; Arakawa, Tadao; and Hodozuka, Kunio, 4,693,086, Cl. 60-663.000.
Ueno, Tatsuaki; and Inoue, Hajime, to Hitachi, Ltd.; and Hitachi Microcomputer Engineering Ltd. Semiconductor integrated circuit device. 4,691,217, 9-1-87, Cl. 357-23.130.
Ueno, Tetsuo: *See*—
Ito, Kimiaki; Ueno, Tetsuo; Ueno, Koichi; and Ishii, Susumu, 4,691,659, Cl. 114-144.00R.
Ueno, Toshio, to Kabushiki Kaisha Fuji Kikaku. Process for the preparation of iodizable calcium composition. 4,684,529, 8-4-87, Cl. 426-237.000.
Ueno, Toshiyuki: *See*—
Miyake, Yuzuru; Nohara, Isao; Sugioka, Takami; Onishi, Susumu; and Ueno, Toshiyuki, 4,715,548, Cl. 242-18.00R.
Ueno, Tsuneya: *See*—
Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; Ueno, Tsuneya; Matsumoto, Satoshi; Dosai, Takayoshi; Ohtsuki, Fumikazu; Fujimoto, Kazuhiro; and Takahashi, Toshimitsu, 4,669,291, Cl. 72-83.000.
Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; and Ueno, Tsuneya, 4,683,630, Cl. 29-159.010.
Ueno, Tsuyoshi: *See*—
Hirose, Masataka; Ueno, Tsuyoshi; and Suzuki, Katsumi, 4,633,809, Cl. 118-719.000.
Ueno, Wataru: *See*—
Oishi, Kengo; Ono, Tuyoshi; and Ueno, Wataru, 4,672,499, Cl. 360-133.000.
Ueno, Yoshiki; Taguchi, Takasi; and Hattori, Tadashi, to Nippon Soken, Inc. Antiglare mirror for an automobile. 4,696,548, 9-29-87, Cl. 350-338.000.
Ueno, Yoshiki: *See*—
Taguchi, Takasi; Ueno, Yoshiki; and Hattori, Tadashi, 4,634,242, Cl. 350-588.000.
Taguchi, Takasi; Ueno, Yoshiki; and Hattori, Tadashi, 4,673,248, Cl. 350-166.000.
Ueno, Yoshio: *See*—
Sakurai, Katukiyo; Ueno, Yoshio; and Okuyama, Takashi, 4,716,224, Cl. 536-55.100.
Ueno, Yukiyasu: *See*—
Fukui, Tomonori; and Ueno, Yukiyasu, 4,662,758, Cl. 356-439.000.
Ueno, Yutaka; Tsuchida, Toyohiko; and Matsuoka, Akira, to Kongo Co., Ltd. Attachment apparatus for crane or the like. 4,668,154, 5-26-87, Cl. 414-607.000.
Uenohara, Norihisa, to Kabushiki Kaisha Daikin Seisakusho. Torsion rubber type damper disc. 4,709,796, 12-1-87, Cl. 192-106.100.
Uenoyama, Yoshio; and Takazawa, Kiyoshi, to Toa Nenryo Kogyo, K.K. Apparatus and method of heating melt spinning head structure. 4,663,096, 5-5-87, Cl. 264-40.600.
Uenoyama, Yoshio; Takazawa, Kiyoshi; and Izumi, Takayuki, to Toa Nenryo Kogyo Kabushiki Kaisha. Method and apparatus for melt spinning. 4,670,202, 6-2-87, Cl. 264-39.000.
Uentech Corporation. *See*—
Taflove, Allen; Sresty, Guggilam C.; and Umashankar, Korada, 4,662,438, Cl. 166-245.000.
Ueoka, Isao: *See*—
Masuda, Shigeo; Katsuda, Morihiko; and Ueoka, Isao, 4,647,474, Cl. 427-44.000.
Ueoka, Joe: *See*—
Katou, Yoshiaki; Ueoka, Joe; and Yoshida, Satoshi, 4,703,383, Cl. 360-126.000.
Yoshida, Satoshi; Ueoka, Joe; and Katou, Yoshiaki, 4,662,985, Cl. 156-643.000.
Uera, Yoshinori: *See*—
Hatakeyama, Tetsuo; Uera, Yoshinori; and Nagao, Nobuaki, 4,715,553, Cl. 242-68.400.
Uerdingen, Walter: *See*—
Kerimis, Dimitrios; Muller, Hanns P.; Uerdingen, Walter; and Heine, Heinrich, 4,689,376, Cl. 525-504.000.
Lindner, Christian; Ott, Karl-Heinz; Uerdingen, Walter; Braese, Hans-Eberhard; and Kress, Hans-Jurgen, 4,666,980, Cl. 525-83.000.
Lindner, Christian; Brudermanns, Karola; Waniczek, Helmut; Uerdingen, Walter; and Hurnik, Helmut, 4,683,267, Cl. 525-133.000.
Ott, Karl-Heinz; Lindner, Christian; Uerdingen, Walter; Braese, Hans-Eberhard; and Hurnik, Helmut, 4,657,976, Cl. 525-83.000.
Wahle, Bernd; Freitag, Dieter; Uerdingen, Walter; Heine, Heinrich; and Blazejak, Manfred, 4,690,998, Cl. 528-96.000.
Uesaka, Sadaaki; Numata, Toshio; and Umezaki, Kazunori, to Glory Kogyo Kabushiki Kaisha. Note sorting and counting apparatus. 4,681,229, 7-21-87, Cl. 209-534.000.
Uesaka, Susumu; and Harada, Noriyuki, to Nippon Light Metal Co. Ltd. Device for making frozen confections. 4,674,886, 6-23-87, Cl. 366-144.000.
Uesaka, Tatsuo: *See*—
Toiyo, Shigeki; Uesaka, Tatsuo; Kawate, Yoshio; Iwaskai, Masayoshi; Horiuchi, Takefumi; Moritoki, Masato; Kanda, Takeshi; Fujikawa, Takao; and Kofune, Shigeo, 4,666,314, Cl. 374-131.000.
Uesaka, Yasutaro: *See*—
Futamoto, Masaaki; Honda, Yukio; Uesaka, Yasutaro; and Yoshida, Kazuetsu, 4,707,756, Cl. 360-131.000.
Ueshiba, Nozomu; Fukada, Tetsuji; and Ise, Yukihuko, to Matsushita Electric Industrial Co., Ltd. Fine adjustment apparatus for optical system lens. 4,685,767, 8-11-87, Cl. 350-255.000.
Ueshin, Akito, to Tokyo Shibaura Denki Kabushiki Kaisha. Sheet convey apparatus. 4,690,268, 9-1-87, Cl. 198-399.000.
Uesugi, Mitsuaki: *See*—
Makabe, Eiichi; Uesugi, Mitsuaki; Inomata, Masaichi; Maruyama, Kyusuke; Iwai, Kenji; and Sano, Kazuo, 4,716,459, Cl. 358-106.000.
Uesugi, Naomoto: *See*—
Ogano, Takeo; Komatsuzaki, Takeshi; Shigenari, Ryoichi; and Uesugi, Naomoto, 4,694,942, Cl. 192-13.00A.
Uesugi, Naoshi: *See*—
Kobayashi, Toshiaki; Sanada, Kazuo; Murayama, Toshiaki; Sugawara, Yasuyuki; Uesugi, Naoshi; and Ishihara, Koushi, 4,679,899, Cl. 350-96.300.
Uesugi, Yoshinori, to Cabio Computer Co., Ltd. Data processing apparatus. 4,712,196, 12-8-87, Cl. 365-229.000.
Ueta, Yutaka: *See*—
Kawachi, Shoji; Tomoda, Masayasu; Ueta, Yutaka; and Oka, Masahiko, 4,670,328, Cl. 428-260.000.
Oka, Masahiko; Ueta, Yutaka; Kano, Hideo; Tomoda, Masayasu; and Kawachi, Shoji, 4,696,989, Cl. 526-254.000.
Uetake, Naohito; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; and Tamata, Shin, to Hitachi, Ltd. Solidified radioactive wastes and process for producing the same. 4,648,990, 3-10-87, Cl. 252-628.000.
Uetake, Naohito: *See*—
Fukasawa, Tetsuo; Ohtsuka, Masaharu; Uetake, Naohito; and Ozawa, Yoshihiro, 4,659,511, Cl. 252-628.000.
Uetani, Kenichi, to Mitsubishi Denki Kabushiki Kaisha. Elevator supervisory learning control apparatus. 4,672,531, 6-9-87, Cl. 364-138.000.
Uetani, Kenichi, to Mitsubishi Denki Kabushiki Kaisha. Signal transmission system. 4,682,342, 7-21-87, Cl. 375-38.000.
Uetani, Kenichi: *See*—
Takabe, Katsunori; and Uetani, Kenichi, 4,677,577, Cl. 364-554.000.
Uetomi, Isamu; Kimura, Masakazu; and Ogura, Kazumasa, to Mitsubishi Denki Kabushiki Kaisha. Standing-wave accelerator. 4,651,057, 3-17-87, Cl. 315-5.410.
Uetomi, Isamu: *See*—
Yoda, Kiyoshi; Uetomi, Isamu; and Fujimura, Satoshi, 4,700,137, Cl. 324-322.000.
Uetsuhara, Tokio, to Mitsubishi Mining & Cement Co., Ltd. Electromagnetic actuator having reluctance adjusting means. 4,706,055, 11-10-87, Cl. 335-229.000.
Uetsuki, Haruo; Kobayashi, Takehiro; and Yamane, Hiroto, to Ryobi, Ltd. Device for preventing backlash on a fishing reel. 4,710,689, 12-1-87, Cl. 318-630.000.
Uetsuki, Haruo: *See*—
Emura, Masaharu; Uetsuki, Haruo; Aoki, Atsuhito; and Kobayashi, Takehiro, 4,708,303, Cl. 242-218.000.
Ueyama, Hideo: *See*—
Udaka, Shigezo; Ueyama, Hideo; Taniguchi, Junichi; and Adachi, Keiji, 4,656,037, Cl. 424-118.000.
Ueyama, Hiroyuki: *See*—
Arai, Takeshi; Ebara, Masami; and Ueyama, Hiroyuki, 4,658,293, Cl. 358-140.000.
Ueyama, Masato; Kanamaru, Takeshi; Shirai, Toshikazu; and Nakano, Kiyoshi, to Mazda Motor Corporation. Working arrangements for

performing multiple operations with robots. 4,673,075, 6-16-87, Cl. 198-339.100.
Ueyama, Seiji, to General Company Limited. Heat-sensitive transferring recording medium. 4,688,057, 8-18-87, Cl. 503-204.000.
Ueyama, Seiji, to General Company Limited. Heat-sensitive transferring recording medium. 4,698,268, 10-6-87, Cl. 428-484.000.
Ueyama, Seiji; and Onoe, Hiroyasu, to General Company Limited. Heat-sensitive transferring recording medium. 4,707,395, 11-17-87, Cl. 428-212.000.
Ueyama, Tsutomu, to Dainippon Screen Mfg. Co., Ltd. Film end holding device. 4,707,123, 11-17-87, Cl. 355-73.000.
Ueyama, Tsutomu. See—
Maeda, Kiyoshi; and Ueyama, Tsutomu, 4,642,701, Cl. 358-296.000.
Ueyanagi, Kiichi; Takahashi, Susumu; Usagawa, Toshiyuki; Umemoto, Yasunari; and Tsukada, Toshihisa, to Hitachi, Ltd. Heterojunction bipolar transistor. 4,683,487, 7-28-87, Cl. 357-34.000.
Ueyanagi, Kiichi. See—
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Uezu, Kazuo. See—
Suzaki, Masayuki; Nishiwaki, Shoji; Hayashima, Toshitaka; Uezu, Kazuo; Maehara, Hidejirou; and Momose, Masanori, 4,683,478, Cl. 346-76.0PH.
Uffenheimer, Kenneth F., to Technicon Instruments Corporation. Random access single channel sheath stream apparatus. 4,683,212, 7-28-87, Cl. 436-52.000.
Uffinger, Friedrich. See—
Ettischer, Helmut; Bethmann, Heinz-G.; Munz, Rolf; Radtke, Manfred; and Uffinger, Friedrich, 4,699,371, Cl. 271-99.000.
Ufheil, James. See—
Barbee, Tom D.; and Ufheil, James, 4,714,558, Cl. 210-776.000.
Uga, Masanori. See—
Tamura, Shinichi; and Uga, Masanori, 4,672,557, Cl. 364-490.000.
Ugai, Yasuhiro. See—
Aoki, Shigeo; Ugai, Yasuhiro; Miyake, Katsumi; and Okamoto, Kotaro, 4,687,298, Cl. 350-334.000.
Ugaji, Masana. See—
Okamura, Kiyohito; Hasegawa, Yoshio; Kuroo, Yoshiyasu; and Ugaji, Masana, 4,696,827, Cl. 427-36.000.
Ugajin, Mitsuyuki. See—
Washimi, Kouichi; Shibata, Makoto; and Ugajin, Mitsuyuki, 4,645,215, Cl. 277-53.000.
Ugawa, Satoru, and Obuchi, Satoshi, deceased (by Obuchi, Fukashi, Ruriko Obuchi, legal representatives), to Nissan Motor Co., Ltd. Glass stabilizer arrangement for automotive vehicle door. 4,669,221, 6-2-87, Cl. 49-352.000.
Ugawa, Satoru, and Obuchi, Satoshi, deceased (by Obuchi, Fukashi, Ruriko Obuchi, legal representatives), to Nissan Motor Co., Ltd. Device for guiding upward and downward movement of window pane of automotive vehicle door. 4,680,892, 7-21-87, Cl. 49-374.000.
Ugawa, Satoru. See—
Ujihara, Hiroshi; Nishijima, Hirotaka; Ugawa, Satoru; Kinoshita, Tomotaka; and Obushi, Satoshi, deceased, 4,669,222, Cl. 49-374.000.
Ugelstad, John; Ellingsen, Turid; Berge, Arvid; and Helgee, Oskar B., to SINTEF. Magnetic polymer particles and process for the preparation thereof. 4,654,267, 3-31-87, Cl. 428-407.000.
Uggeri, Fulvio. See—
Giordano, Claudio; Uggeri, Fulvio; and Minisci, Francesco, 4,642,376, Cl. 562-466.000.
Giordano, Claudio; Villa, Giovanni; Uggeri, Fulvio; and Castaldi, Graziano, 4,675,418, Cl. 549-79.000.
Giordano, Claudio; Castaldi, Graziano; Uggeri, Fulvio; and Cavicchioli, Silvia, 4,697,036, Cl. 562-418.000.
Ugine Gueugnon S.A.. See—
Baillet, Raymond, 4,674,542, Cl. 138-148.000.
Ugolini, Giancarlo, to Ugolini S.p.A. Refrigerated beverage dispenser, with whipper device. 4,696,417, 9-29-87, Cl. 222-146.600.
Ugolini S.p.A.. See—
Ugolini, Giancarlo, 4,696,417, Cl. 222-146.600.
Ugon, Michel, to Cii Honeywell Bull(Societe Anonyme). Method and apparatus for authorizing the holder of a portable object such as a card to gain access to at least one service provided by at least one authorizing entity. 4,656,342, 4-7-87, Cl. 235-379.000.
Ugro, Josef V., Jr.. See—
Doree, Richard H.; and Ugro, Josef V., Jr., 4,654,256, Cl. 428-304.400.
Uhde GmbH. See—
Herbort, Hans-Joachim; and Severin, Manfred, 4,647,436, Cl. 422-197.000.
Schmitt, Helmut; Schurig, Helmuth; Bergner, Dieter; and Hannesen, Kurt, 4,664,770, Cl. 204-252.000.
Schwarz, Hans-Dieter; Pietzarka, Friedrich W.; Lichtenthaler, Werner; and Muhlhaus, Ludwig, 4,681,157, Cl. 165-145.000.
Siekmann, Helmut E.; Bassler, Jurgen; and Liebig, Winfried, 4,657,565, Cl. 55-55.000.
Siekmann, Helmut E., 4,657,569, Cl. 55-189.000.
Wolstein, Friedrich, 4,656,014, Cl. 423-235.000.
Uhen, Richard F., to General Electric Company. Method of assembling a rotor assembly. 4,635,352, 1-13-87, Cl. 29-598.000.
Uhlendorf, Gregg J.. See—
Moon, Ronald R.; Machado, Michael G.; Cooper, Thomas G.; Weiher, Patrick M.; Bruner, Curtis H.; Strysko, Mark E.; Uhlendorf, Gregg J.; Campbell, Steven G.; Quan, Tuong T.; and Luong, Hoa V., 4,669,004, Cl. 360-77.000.
Uhlenkamp, Dirk, to Standard Elektric Lorenz Aktiengesellschaft. Circuit arrangement for detecting motion in a television picture. 4,688,089, 8-18-87, Cl. 358-105.000.
Uhler, Robert O.. See—
Gantzhorn, John E., Jr.; McCloud, John W., II; and Uhler, Robert O., 4,698,701, Cl. 360-16.000.
Uhlig, Georg. See—
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Uhlig, Helmut. See—
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Uhlig, Raimer. See—
Richter, Hanno; Mirsberger, Helmut; Uhlig, Raimer; Haage, Manfred; and Uebel, Philipp, 4,708,551, Cl. 411-52.000.
Uhlir, Pavel. See—
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Uhlmann, Ernst. See—
Percival, Richard; and Uhlmann, Ernst, 4,689,657, Cl. 357-68.000.
Percival, Richard; and Uhlmann, Ernst, 4,691,434, Cl. 437-173.000.
Uhlmann, Eugen. See—
Konig, Wolfgang; Engels, Joachim; Uhlmann, Eugen; and Wetekam, Waldemar, 4,711,847, Cl. 435-70.000.
Uhm, Sung J.; Lee, Tae J.; Choi, Eun S.; and Yu, Dong W., to Korea Advanced Institute of Science & Technology. Process for producing phthalic acid esters. 4,675,434, 6-23-87, Cl. 560-99.000.
Uhmann, Rainer; and Radscheit, Kurt, to Hoechst Aktiengesellschaft. Process for the low-racemization preparation of peptide intermediates of the synthesis of gonadorelin and gonadorelin analogs, and new intermediates for this process. 4,691,008, 9-1-87, Cl. 530-339.000.
UHR Corporation. See—
Jones, Richard D., 4,645,908, Cl. 219-378.000.
Jones, Richard D., 4,655,051, Cl. 62-324.400.
Jones, Richard D., 4,685,307, Cl. 62-160.000.
Jones, Richard D., 4,698,978, Cl. 62-160.000.
Uhr, Jonathan W.; and Vitetta, Ellen S., to Board of Regents, The University of Texas System, The. Immunotoxin conjugates employing toxin B chain moieties. 4,664,911, 5-12-87, Cl. 424-85.000.
Uhrey, Marc K., to American Microsystems, Inc. Quad-state control signal input circuit. 4,680,485, 7-14-87, Cl. 307-463.000.
Uhri, Duane C., to Mobil Oil Corporation. Method of determining and displaying the orientation of subsurface formations. 4,638,254, 1-20-87, Cl. 324-323.000.
Uhri, Duane C., to Mobil Oil Corporation. Stimulation of earth formations surrounding a deviated wellbore by sequential hydraulic fracturing. 4,687,061, 8-18-87, Cl. 166-308.000.
Uhri, Duane C., to Mobil Oil Corporation. Hydraulic fracturing of a shallow subsurface formation. 4,714,115, 12-22-87, Cl. 166-308.000.
Uhrich, Daniel T.. See—
Beckey, Thomas J.; Kallas, Kerry M.; and Uhrich, Daniel T., 4,702,413, Cl. 236-46.00R.
Uhrick, Richard G. Combination of a table and equipment for cat litter. 4,683,839, 8-4-87, Cl. 119-1.000.
Uhrig, Ira J. Apparatus for supporting a musical instrument. 4,693,161, 9-15-87, Cl. 84-327.000.
Ui, Katsumi. See—
Ito, Masashi; Ohashi, Toshio; and Ui, Katsumi, 4,639,272, Cl. 106-243.000.
Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, to Doryokuro Kakunenryo Kaihatsu Jigyodan; and Hitachi Cable Ltd. Method for exchanging an hermetically sealed connector on a glove box. 4,667,400, 5-26-87, Cl. 29-825.000.
Ui, Masahito; Akiyama, Hideo; Todokoro, Akio; Natsui, Yukio; Kogure, Hiroshi; Kato, Yujiro; and Ozaki, Tsuneo, to Doryokuro Kakunenryo Kaihatsu Jigyodan; and Hitachi Cable Ltd. Hermetically sealed connector for glove box and method for exchanging such connectors. 4,686,328, 8-11-87, Cl. 174-153.00R.
UIC Nordic AB. See—
Stridsberg, Gustaf L., 4,660,981, Cl. 356-375.000.
Uimonen, Matti, to Tekma Oy. Run-through brick drying plant and method for the control of its operation. 4,711,038, 12-8-87, Cl. 34-25.000.
UIP Engineered Products Corporation. See—
Carlson, Lee G.; Terrien, Conrad; and Queisser, Roger, 4,670,154, Cl. 210-675.000.
Terrien, Conrad; and Carlson, Lee G., 4,693,818, Cl. 210-189.000.
Uitermarkt, Rombartus W., to Techno Diagnosis B.V. Method and device for measuring the deformation of a rotating shaft. 4,656,875, 4-14-87, Cl. 73-862.350.
Uiterwaal, Dirk J. D.; and Hersevoort, Aart, to Melkunie Holland B.V. Nutritional supplement preparation intended for pregnant and breast-feeding women based on milk constituents as well as a process for preparing it. 4,710,387, 12-1-87, Cl. 426-72.000.
Uitto, Vesa; Julkunen, Past; Latva-Pukkila, Past; and Kukka, Timo, to Oy Tampella AB. Method for optimizing rock drilling. 4,671,366, 6-9-87, Cl. 175-27.000.
Ujazdowski, Richard C.. See—
Anderson, Philip M.; Reich, Ronald K.; and Ujazdowski, Richard C., 4,651,136, Cl. 340-572.000.
Anderson, Philip M.; Ujazdowski, Richard C.; and Urbanski, Jeffrey C., 4,675,655, Cl. 340-505.000.
Anderson, Philip M.; Ujazdowski, Richard C.; and Urbanski, Jeffrey C., 4,686,515, Cl. 340-572.000.

Uji, Ryohei: *See—*
Ozaki, Haruhiko; Yamada, Tadatoshi; Machida, Kunio; Ohno, Kiyoshi; Shimazaki, Hirato; Inoue, Hidekimi; and Uji, Ryohei, 4,713,686, Cl. 358-107.000.

Ujihara, Hiroshi, to Ohi Seisakusho Co., Ltd. Wire compensator for a wire driving window regulator. 4,637,166, 1-20-87, Cl. 49-352.000.

Ujihara, Hiroshi, to Ohi Seisakusho Co., Ltd. Winding device for cables. 4,644,694, 2-24-87, Cl. 49-352.000.

Ujihara, Hiroshi; Nishijima, Hirotaka; Ugawa, Satoru; Kinoshita, Tomotaka; and Obushi, Satoshi, deceased (by Obuchi, Fukashi, Ruriko Obuchi, legal representatives), to Nissan Motor Co., Ltd.; and Ohi Seisakusho Co., Ltd. Window regulator. 4,669,222, 6-2-87, Cl. 49-374.000.

Ujihara, Hiroshi: *See—*
Nakamura, Takeshi; and Ujihara, Hiroshi, 4,663,886, Cl. 49-360.000.

Ujihara, Tsunenobu; Mitsuhashi, Takamichi; and Ueno, Takehiko, to Sony Corporation. Method for adjusting an electronic circuit. 4,689,550, 8-25-87, Cl. 323-354.000.

Uji, Yasuo: *See—*
Kubota, Takao; and Uji, Yasuo, 4,690,535, Cl. 354-322.000.
Taniguchi, Shinichi; Akashi, Akiru; and Uji, Yasuo, 4,669,847, Cl. 354-298.000.

Ujie, Kazuaki: *See—*
Sato, Nobuyuki; Ujie, Kazuaki; Terasawa, Masaaki; and Nabetani, Shinji, 4,692,904, Cl. 365-226.000.

Ujie, Kenji: *See—*
Simomura, Katsuyasu; and Ujie, Kenji, 4,664,692, Cl. 65-182.200.

Ujie, Masayuki: *See—*
Harada, Susumu; Shimizu, Kiyoshi; and Ujie, Masayuki, 4,687,817, Cl. 525-375.000.

Ujie, Mikio: *See—*
Takai, Haruki; Ujie, Mikio; and Nakamura, Hideki, 4,712,212, Cl. 370-104.000.

Ujie, Noriaki: *See—*
Hara, Yasuhiko; Karasaki, Koichi; Ujie, Noriaki; and Sase, Akira, 4,692,690, Cl. 324-73.0PC.

Ujie, Seiichi: *See—*
Fujishige, Masao; Yokokawa, Harumi; Ujie, Seiichi; and Dokiya, Masayuki, 4,681,626, Cl. 75-68.00A.

Ujino, Koji: *See—*
Kajita, Hiroshi; Ujino, Koji; and Uehara, Yoshiyuki, 4,697,911, Cl. 355-3.0SH.

Ujino, Yoshiyuki: *See—*
Kawasaki, Kazuhisa; Ujino, Yoshiyuki; Tsuji, Takahisa; and Saeki, Tsuneo, 4,656,763, Cl. 38-77.830.

Ujita, Tsugunobu; and Takahashi, Seiichi, to Kubota, Ltd. Axle reduction apparatus for tractor. 4,714,130, 12-22-87, Cl. 180-262.000.

Ukachi, Takashi; Bessho, Keiichi; Kumano, Atsushi; Matsumura, Yoshio; and Ansel, Robert E., to DeSoto, Inc.; and Japan Synthetic Rubber Co., Ltd. Radiation curable composition. 4,683,280, 7-28-87, Cl. 528-71.000.

Ukai, Mikio; and Okumoto, Ryouji, to Toyoda Gosei Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. Boot for universal joint. 4,693,484, 9-15-87, Cl. 277-212.0FB.

Ukai, Mikio; and Okumoto, Ryoji, to Toyoda Gosei Co., Ltd. Mechanical shaft joint boot. 4,702,483, 10-27-87, Cl. 277-212.0FB.

Ukai, Norio; and Iwasaki, Akira, to Honda Giken Kogyo Kabushiki Kaisha. Steering device for front and rear wheels. 4,706,977, 11-17-87, Cl. 280-91.000.

Ukai, Toshinao: *See—*
Kubodera, Seiiti; Ukai, Toshinao; and Okada, Hisashi, 4,713,316, Cl. 430-351.000.
Mihara, Yuji; and Ukai, Toshinao, 4,677,053, Cl. 430-576.000.
Shuto, Sadanobu; Ukai, Toshinao; and Aida, Shunichi, 4,675,279, Cl. 430-567.000.

Ukai, Yasuhiro: *See—*
Aoki, Shigeo; Tamamura, Junichi; and Ukai, Yasuhiro, 4,644,338, Cl. 340-719.000.
Aoki, Shigeo; Tamamura, Junichi; and Ukai, Yasuhiro, 4,654,117, Cl. 156-659.100.

Ukai, Yujiro: *See—*
Ishibashi, Kiyoshi; and Ukai, Yujiro, 4,700,545, Cl. 62-6.000.

Ukawa, Masaru: *See—*
Takahashi, Masahide; Sakai, Seiichi; Masada, Osamu; Ukawa, Masaru; and Onishi, Hamao, 4,636,931, Cl. 363-71.000.

Ukawa, Naohiko: *See—*
Onizuka, Masakazu; Ukawa, Naohiko; Komo, Susumu; and Okino, Susumu, 4,663,724, Cl. 364-496.000.

Uken, William D.; and Dubrow, Robert S., to Raychem Corporation. Protective article comprising an elastic gel. 4,643,924, 2-17-87, Cl. 428-35.000.

Uken, William D., to Raychem Corporation. Gel filled container. 4,647,717, 3-3-87, Cl. 174-84.00C.

Uken, William D.; and Dubrow, Robert S., to Raychem Corp. Sealing member. 4,662,692, 5-5-87, Cl. 339-96.000.

Uken, William D.; Dubrow, Robert S.; Nelson, Carib; and Dittmer, Catherine A., to Raychem Corp. Protective article. 4,690,831, 9-1-87, Cl. 427-44.000.

Uken, William D.: *See—*
Camin, Geary E.; and Uken, William D., 4,680,233, Cl. 428-424.600.

Ukena, Toshinao: *See—*
Sekine, Fumimaro; Kurosaki, Tomihiro; Ukena, Toshinao; and Kamitani, Hiroshi, 4,713,487, Cl. 562-587.000.

Ukigaya, Fumio: *See—*
Aoki, Akira; and Ukigaya, Fumio, 4,692,804, Cl. 358-163.000.

Ukigaya, Tadashi; and Ogawa, Keizaburo, to Nikken Chemicals Co., Ltd. Sustained release pharmaceutical tablet of theophylline and production process thereof. 4,692,337, 9-8-87, Cl. 424-469.000.

Ukisu, Hiroshi, to Epoch Company, Ltd. Interactive educational device. 4,690,645, 9-1-87, Cl. 434-309.000.

Ukita, Teruhiko; and Nitta, Tsuneo, to Tokyo Shibaura Denki Kabushiki Kaisha. Continuous speech recognition apparatus. 4,677,672, 6-30-87, Cl. 381-43.000.

Ukita, Teruhiko; Nitta, Tsuneo; and Watanabe, Sadakazu, to Tokyo Shibaura Denki Kabushiki Kaisha. Continuous speech recognition apparatus. 4,677,673, 6-30-87, Cl. 381-43.000.

Ukkonen, Markku. Product manufactured of a rock material and a method for its manufacturing. 4,657,791, 4-14-87, Cl. 428-15.000.

Ukmar, Boris; and Trompetto, Mario, to Ing. C. Olivetti & C., S.p.A. Multitrack ribbon cartridge for printing machines. 4,669,902, 6-2-87, Cl. 400-208.000.

Uku, Kyouji; and Kato, Shinji, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Method for preparation of droplets. 4,680,320, 7-14-87, Cl. 523-313.000.

Ul Haq, Mohammed E.; Bagnall, Peter J.; and Reed, John A., to Vtc Inc. Dynamic ram with reduced substrate noise and equal access and cycle time. 4,667,311, 5-19-87, Cl. 365-182.000.

Ulam, John B., to Clad Metals, Inc. Induction cooking utensil. 4,646,935, 3-3-87, Cl. 220-453.000.

Ulander, Lennart. Lathe cutting tool support and suction cleaning device for wood lathes. 4,664,164, 5-12-87, Cl. 142.49.000.

Ulano Corporation: *See—*
Gerhardt, Robert F., 4,655,841, Cl. 106-287.230.

Ulb, Horst: *See—*
Spielau, Paul; Kuhnel, Werner; Klaar, Karlo; Gaspar, Bertram; Weiss, Richard; Ulb, Horst; Breitschendel, Hans-Ulrich; Klingberg, Gerd; and Fenske, Jurgen, 4,652,326, Cl. 156-244.110.

Ulbert, Karel: *See—*
Sorm, Miloslav; Vacha, Jiri; Ulbert, Karel; Jagos, Frantisek; Nepurek, Stanislav; Langpaul, Josef; Skalicky, Stanislav; Kenig, Jaromir; Zvonicek, Miroslav; and Drabek, Oldrich, 4,646,969, Cl. 239-106.000.

Ulbrich, Dieter: *See—*
Faulstich, Ingo; and Ulbrich, Dieter, 4,708,544, Cl. 409-12.000.

Ulbrich, Gerald; and Neuhaus, Detlev, to WABCO Westinghouse Fahrzeugbremsen GmbH. Inductive measuring arrangement for determining the position of a movable core member. 4,649,343, 3-10-87, Cl. 324-207.000.

Ulbrich, Paul. Electrode assembly for sensing heart activity. 4,686,998, 8-18-87, Cl. 128-642.000.

Ulbrich, Stephen F.: *See—*
Burnham, Stephen R.; and Ulbrich, Stephen F., 4,659,979, Cl. 323-312.000.

Ulbrich, Walter; Rainer, Alois; and Noll, Tobias, to Siemens Aktiengesellschaft. Digital arithmetic unit having shortened processing time and a simplified structure. 4,675,837, 6-23-87, Cl. 364-788.000.

Ulbrich, Walter: *See—*
Rainer, Alois; Ulbrich, Walter; and Gazsi, Lajos, 4,706,188, Cl. 364-200.000.

Ulens, Stanislas F.: *See—*
Bosquet, Herman; and Ulens, Stanislas F., 4,696,725, Cl. 204-16.000.

Ulfers, Bernhard G.: *See—*
Rusch, Randy A.; Kittle, Douglas A.; Ulfers, Bernhard G.; and Inman, Stephen L., 4,633,572, Cl. 29-576.000.

Uliana, Anthony R.: *See—*
Bazilio, Rayman E.; Hartz, James F.; and Uliana, Anthony R., 4,711,328, Cl. 188-296.000.

Ulijasz, Thaddeus R.: *See—*
Ohlhaber, Ronald L.; and Ulijasz, Thaddeus R., 4,695,127, Cl. 350-96.230.

Ulinski, Richard J., Sr.; Clarke, Hugh C.; and Evers, Richard A., to RJS Enterprises, Inc. Self-correcting printer-verifier. 4,699,531, 10-13-87, Cl. 400-74.000.

Ulinski, Richard J., Sr., to RJS Enterprises, Inc. Apparatus and method for optically measuring bar code dimensions. 4,705,939, 11-10-87, Cl. 235-466.000.

Ullah, Ismat: *See—*
Begum, Selima; Ullah, Ismat; and Nunning, Bernard C., 4,713,246, Cl. 424-455.000.

Ullestad, David C.: *See—*
Aggers, John R.; Brindle, Ralph C.; Kidder, Kenneth B.; and Ullestad, David C., 4,657,179, Cl. 236-51.000.

Ullman, Edwin F., to Syntex (U.S.A.) Inc. Fluorescent multiparameter particle analysis. 4,713,348, 12-15-87, Cl. 436-501.000.

Ullman, Edwin F.: *See—*
DiNello, Robert K.; Gibbons, Ian; and Ullman, Edwin F., 4,687,735, Cl. 435-7.000.
Liu, Yen-Ping; Ullman, Edwin F.; and Becker, Martin J., 4,650,770, Cl. 436-523.000.

Ullman, Johan. Working chair. 4,690,459, 9-1-87, Cl. 297-458.000.

Ullman, Myron, to Kessler Products Company, Inc. Lockable latch for tiltable double hung windows. 4,669,765, 6-2-87, Cl. 292-153.000.

Ullman, Myron, to Dover Molded Products Company, The. Single finger-opening resilient cap. 4,691,839, 9-8-87, Cl. 220-281.000.

Ullman, Myron, to Boardman Molded Products, Inc. Splash-proof closure. 4,711,360, 12-8-87, Cl. 215-235.000.

Ullman, Myron: *See—*
Kessler, Milton; and Ullman, Myron, 4,688,619, Cl. 160-225.000.

Ullman, Myron E.: *See—*
Kessler, Ronald N.; and Ullman, Myron E., 4,682,704, Cl. 215-329.000.

Ullman, Wolfgang, to ANT Nachrichtentechnik GmbH. Rotary microwave switch. 4,649,355, 3-10-87, Cl. 333-106.000.

Ullmann, Roland, to Braun Aktiengesellschaft. Hair cutting apparatus, in particular electric hair cutting apparatus. 4,669,189, 6-2-87, Cl. 30-201.000.

Ullmann, Wolfgang, and Gross, Walter, to ANT Nachrichtentechnik GmbH. Microwave push-pull frequency converter. 4,661,999, 4-28-87, Cl. 455-328.000.

Ulrich, Axel: *See*—
Rutter, William J.; Pictet, Raymond; Chirgwin, John; Goodman, Howard M.; Ullrich, Axel; and Shine, John. 4,652,525, Cl. 435-253.000.

Ulrich, Gerd: *See*—
Hoyer, Peter; and Ullrich, Gerd. 4,647,098, Cl. 294-101.000.

Ulrich, Hansjurgen; and Geipel, Werner, to Paul Rauschert GmbH & Co. Kg. Liquid distributor for material exchange columns. 4,648,972, 3-10-87, Cl. 210-541.000.

Ullrich, Manfred: *See*—
Reutler, Herbert; and Ullrich, Manfred. 4,707,327, Cl. 376-294.000.

Ulrich, Martin: *See*—
Alewelt, Wolfgang; Eisermann, Wolfgang; Meyer, Karl-Heinrich; Tresper, Erhard; and Ullrich, Martin. 4,639,507, Cl. 528-388.000.

Ullrich, Rainer W.: *See*—
Ryll, Jurgen H.; and Ullrich, Rainer W. 4,698,030, Cl. 439-752.000.

Ullum, Henrik, to A/S Atlas. Rotary drier with lifting element. 4,711,041, 12-8-87, Cl. 34-179.000.

Ulm, John G., to Liqui-Box Corporation. Tamper-evident seal for a toggle-type dispensing valve. 4,711,380, 12-8-87, Cl. 222-541.000.

Ulman, Jeffrey A.: *See*—
Guilnault, Lawrence J.; and Ulman, Jeffrey A.. 4,698,162, Cl. 210-710.000.

Ulman, John, to Personal Products Company. Method for making nonplanar absorbent products. 4,678,527, 7-7-87, Cl. 156-213.000.

Ulmann, Jean-Pierre, to Etablissements Georges Klein. Angular non return devices. 4,658,940, 4-21-87, Cl. 188-265.000.

Ulmen, Mathias: *See*—
Bungert, Heinrich; Ulmen, Mathias; and Wenz, Herbert. 4,643,118, Cl. 112-318.000.

Ulmer, Christian; and Trondle, Georg, to Fritz Gegauf Aktiengesellschaft Bernina-Nahmaschinenfabrik. Self-adjusting presser foot for sewing machines. 4,643,116, 2-17-87, Cl. 112-240.000.

Ulmer, Harry E.: *See*—
Bonfield, John H.; and Ulmer, Harry E., 4,705,904, Cl. 570-142.000.
Mathew, Chempolil T.; and Ulmer, Harry E., 4,737,294, Cl. 252-182.000.

Ulmer, Richard W.: *See*—
Miller, James A., Sr.; Allgood, Robert N.; and Ulmer, Richard W., 4,659,944, Cl. 307-350.000.

Ulrich, Hannsjorg; and Prestin, Peter, to Hoechst Aktiengesellschaft. Process for recovering noble metals from their cyanide complexes. 4,676,909, 6-30-87, Cl. 210-665.000.

Ulrich, Harold C. Volleyball setting machine. 4,714,069, 12-22-87, Cl. 124-26.000.

Ulrich, Heinrich; and Zielke, Klaus, to Heinrich C. Ulrich, Firma. Implantable spinal distraction splint. 4,658,809, 4-21-87, Cl. 128-92.07YM.

Ulrich, Helmut; Bartscher, Peter; and Shilton, Brian, to WABCO Westinghouse Fahrzeugbremsen GmbH. Relay valve device. 4,679,865, 7-14-87, Cl. 303-52.000.

Ulrich, Helmut: *See*—
Fauck, Gerhard; Kiel, Bernd; and Ulrich, Helmut, 4,640,556, Cl. 303-22.00R.
Fauck, Gerhard; Pohl, Wolfgang; and Ulrich, Helmut, 4,666,217, Cl. 303-22.00R.

Ulrich, Larry F. Electronic control means and method for controlling lights. 4,670,736, 6-2-87, Cl. 340-81.00R.

Ulrich, Michael H.: *See*—
Jones, Rick O.; Price, Walter F., Jr.; Siemer, Glenn E.; and Ulrich, Michael H., 4,634,267, Cl. 355-66.000.

Ulrich, Reiner: *See*—
Ripberger, Emil; Stuska, Gotthard; and Ulrich, Reiner. 4,704,950, Cl. 92-208.000.

Ulrich, Reinhard; and Auch, Wilfried, to Standard Elektrik Lorenz Aktiengesellschaft. Rotation rate measuring device. 4,704,031, 11-3-87, Cl. 356-350.000.

Ulrich, Reinhard, to Daimler-Benz Aktiengesellschaf . Method for fiber optic transmission of a special coded measurement. 4,705,354, 11-10-87, Cl. 350-96.290.

Ulrich, Robert: *See*—
Ladeburg, Jorg; Becker, Robert; Dreymann, Bernhard; Gensler, Thomas; Ulrich, Robert; Wahrenbruch, Paul; and Blaser, Reinhard, 4,672,166, Cl. 219-110.000.

Ulrich, Wolf-Rudiger: *See*—
Amschler, Hermann; and Ulrich, Wolf-Rudiger, 4,707,481, Cl. 514-247.000.
Flockerzi, Dieter; Klemm, Kurt; and Ulrich, Wolf-Rudiger, 4,707,486, Cl. 514-318.000.

Ulrichs, Klaus; Hibbel, Joseph; Schmidt, Volkmar; Lieder, Bernhard; Scheve, Heinrich; Schulze-Frenking, Burchard; Hofs, Wolfgang; and Nottebohm, Jurgen, to Ruhrchemie Aktiengesellschaft. Process and apparatus for the preparation of ammonium nitrate. 4,699,773, 10-13-87, Cl. 423-396.000.

Ulrickson, Michael: *See*—
Kugel, Henry W.; and Ulrickson, Michael, 4,650,632, Cl. 376-143.000.

Ulriksson, Bengt A.; and Fletcher, Lawrence, to Weinschel Engineering Co., Inc. Noise suppression in an I-F substitution loop. 4,682,060, 7-21-87, Cl. 307-543.000.

Ulry, David N. Inflatable reflector apparatus and method of manufacture. 4,672,389, 6-9-87, Cl. 343-915.000.

ULS International Inc.: *See*—
Pole, Charles D., 4,652,199, Cl. 414-291.000.
Pole, Charles D., 4,706,854, Cl. 222-459.000.

Ulsh, John R. Arrowhead extractor. 4,633,562, 1-6-87, Cl. 29-264.000.

Ultima Electronics Ltd.: *See*—
Fathi, Saul S., 4,656,559, Cl. 361-386.000.
Fathi, Saul S., 4,712,051, Cl. 318-564.000.

Ultimate Support Systems, Inc.: *See*—
Johnson, Jeffrey M.; Lindskog, Jon L.; and Schoenig, Darrell A., 4,671,479, Cl. 248-173.000.

Ultra Bagger Co. of Cincinnati, The: *See*—
Maddux, Forrest E., Jr.; Eagle, Paul A.; and Robbins, Robert L., 4,694,638, Cl. 53-459.000.

Ultra Carbon Corporation: *See*—
Wilsey, Harvey J., 4,703,556, Cl. 29-611.000.

Ultra-Centrifuge Nederland N.V.: *See*—
Luijten, Waltherus J. T. H.; and Moonen, Johannes J. E., 4,684,317, Cl. 415-73.000.

Ultrafin AG: *See*—
Busselmann, Manfred H.; and Gaffal, Hans R., 4,662,424, Cl. 160-331.000.

Ultraflo Corp.: *See*—
Sisk, David E., 4,699,357, Cl. 251-306.000.

Ultramed Corporation: *See*—
Parisi, Tulio T., 4,691,725, Cl. 134-184.000.

Ultran Laboratories, Inc.: *See*—
Bhardwaj, Mahesh C., 4,703,656, Cl. 73-644.000.

Ultrasonic Arrays, Inc.: *See*—
Hossack, James M., 4,695,986, Cl. 367-140.000.

Ultrasystems Defense and Space, Inc.: *See*—
Paciorek, Kazimiera J. L.; Kratzer, Reinhold H.; Harris, David H.; and Krone-Schmidt, Wilfried, 4,707,556, Cl. 556-403.000.

Ulug, Mehmet E., to General Electric Company. Method and apparatus for maintaining a dynamic logical ring in a token passing LAN. 4,649,535, 3-10-87, Cl. 370-86.000.

Ulug, Mehmet E., to General Electric Company. Method and apparatus for local area networks. 4,667,322, 5-19-87, Cl. 370-85.000.

Ulug, Mehmet E., to General Electric Company. Implicit preemptive lan. 4,682,324, 7-21-87, Cl. 370-85.000.

Ulug, Mehmet E., to General Electric Company. Method and apparatus for maintaining a dynamic logical ring in a token passing lan. 4,682,326, 7-21-87, Cl. 370-89.000.

Ulug, Mehmet E., to General Electric Company. Reliable local area network including active stations. 4,701,910, 10-20-87, Cl. 370-85.000.

Ulug, Mehmet E., to General Electric Company. Media accessing apparatus and method for communication system. 4,701,911, IC 20-87, Cl. 370-85.000.

Ulug, Mehmet E., to General Electric Company. Token passing LAN using a plurality of tokens. 4,707,830, 11-17-87, Cl. 370-89.000.

Ulvac Service Corporation: *See*—
Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.
Yunoki, Toru, 4,670,138, Cl. 210-141.000.

Ulveing, Leon; Linden, Joseph; Bohnet, Matthias; Wies, Georges; and Mack, Raymond, to Paul Wurth S.A. Process and apparatus for the injection by pneumatic means of metered amounts of pulverulent materials into a vessel which is under variable pressure. 4,702,182, 10-27-87, Cl. 110-347.000.

Ulveland, Stefan, to AB Volvo. Method and device for signaling that gear change is required. 4,701,852, 10-20-87, Cl. 364-424.100.

Ulveling, Leon; Schmit, Louis; and Legille, Edouard, to Paul Wurth S.A. Apparatus for the pneumatic injection of pulverulent materials into a pressurized vessel, and its application to the injection of powered coal into a shaft furnace. 4,702,288, 10-27-87, Cl. 141-67.000.

Ulvros, Istvan M.: *See*—
Hilmersson, Anders E.; and Ulvros, Istvan M., 4,698,514, Cl. 250-566.000.

Ulysse Nardin S.A.: *See*—
Oechslin, Ludwig; Giger, Urs; and Sporing, Jorg, 4,711,583, Cl. 368-16.000.

Umada, Youichi: *See*—
Sato, Hiroshi; Hirose, Kenichi; Ishii, Norio; and Umada, Youichi, 4,709,024, Cl. 540-536.000.

Umano, Yasuhiro: *See*—
Mizumoto, Masakatsu; and Umano, Yasuhiro, 4,654,569, Cl. 318-568.000.

Umashankar, Korada: *See*—
Taflove, Allen; Sresty, Guggilam C.; and Umashankar, Korada, 4,662,438, Cl. 166-245.000.

Umbricht, Stefan, to BBC Brown, Boveri & Company, Limited. Voltage converter with GTO thyristors in series connection with at least a choke with freewheeling circuit. 4,703,411, 10-27-87, Cl. 363-57.000.

Umebayashi, Kazuyuki; and Yamada, Takahiro, to Aisin Seiki Kabushiki Kaisha. Vehicle-loaded display device. 4,638,287, 1-20-87, Cl. 340-22.000.

Umebayashi, Nobuhiro: *See*—
Maruyama, Hiroshi; Mizushima, Kunio; Sakemoto, Akito; and Umebayashi, Nobuhiro, 4,695,910, Cl. 360-133.000.

Umebayashi, Tetsuro: *See*—
Suzuki, Hirosuke; and Umebayashi, Tetsuro, 4,707,671, Cl. 333-1.000.
Umec Corporation: *See*—
Casselberry, Robert F.; and Kania, Robert C., 4,686,848, Cl. 73-38.000.
Umeda, Fumio: *See*—
Nakatomi, Yasuo; Hara, Katsuhiko; Umeda, Fumio; Kono, Toshiaki; and Niimoto, Hisashi, 4,693,898, Cl. 426-19.000.
Umeda, Hiromi: *See*—
Okamura, Masayoshi; Matsuda, Kiyoshi; Yamada, Hiromichi; Umeda, Hiromi; and Tomimoto, Masami, 4,673,655, Cl. 436-75.000.
Umeda, Hiroyuki, to Victor Company of Japan, Ltd. Automatic tape loading type recording and/or reproducing apparatus. 4,652,948, 3-24-87, Cl. 360-95.000.
Umeda, Hiroyuki: *See*—
Wakui, Yoshiaki; and Umeda, Hiroyuki, 4,669,021, Cl. 360-32.000.
Umeda, Kazuo: *See*—
Hasegawa, Katsumi; Ohno, Michio; Nagayasu, Tadamoto; and Umeda, Kazuo, 4,702,871, Cl. 264-101.000.
Umeda, Morio: *See*—
Fukutomi, Hisao; Konishi, Takeshi; Kuraoka, Koji; Umeda, Morio; Tuchiya, Takanori; and Imura, Yutaka, 4,695,089, Cl. 296-107.000.
Imura, Yutaka; Konisi, Takesi; Tuchiya, Takanori; Umeda, Morio; Fukutomi, Hisao; and Kuraoka, Koji, 4,651,470, Cl. 49-502.000.
Kuraoka, Koji; Umeda, Morio; Konishi, Takeshi; and Tuchiya, Takanori, 4,700,982, Cl. 296-107.000.
Umeda, Naoki: *See*—
Fukui, Yoshio; Yamato, Masatoshi; Umeda, Naoki; and Kawasaki, Masahiro, 4,647,412, Cl. 260-410.600.
Umeda, Shin, to Ricoh Company, Ltd. Electronic copier with automatic document feeder and sorter. 4,693,590, 9-15-87, Cl. 355-14.0SH.
Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Fumichi; Kato, Mitsuo; and Wada, Tetsuyoshi, to Nisshin Steel Company, Ltd.; and Mitsubishi Jukogyo Kabushiki Kaisha. Combined continuous plating apparatus for hot-dip plating and vacuum deposition plating. 4,643,131, 2-17-87, Cl. 118-718.000.
Umeda, Tadashi: *See*—
Iida, Kazumi; Ohata, Yosuke; Hyodo, Kenchiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,636,057, Cl. 355-3.00R.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Kenchiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,283, Cl. 355-3.0DD.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Kenchiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,666,285, Cl. 355-8.000.
Iida, Kazumi; Ohata, Yosuke; Hyodo, Kenchiro; Akiyama, Kazunori; Umeda, Tadashi; and Kishimoto, Keiichi, 4,714,338, Cl. 355-3.0FU.
Kato, Akira; Igarashi, Hisashi; and Umeda, Tadashi, 4,702,211, Cl. 123-421.000.
Koike, Akihiko; and Umeda, Tadashi, 4,635,606, Cl. 123-463.000.
Umeda, Takao; Ooishi, Kazuya; Igawa, Tatsuo; and Hori, Yasuro, to Hitachi, Ltd. Driving ferroelectric liquid crystal printers via short circuiting. 4,712,876, 12-15-87, Cl. 350-350.008.
Umeda, Takao: *See*—
Isogai, Masato; Hattori, Shintaroo; Iwaskai, Kishiro; Mukoh, Akio; Umeda, Takao; and Nagae, Yoshiharu, 4,634,226, Cl. 350-332.000.
Umeda, Takashi: *See*—
Bailey, Philip E.; Pickett, Gordon E.; Luttinger, Manfred; and Umeda, Takashi, 4,713,407, Cl. 524-109.000.
Umeda, Takato, to Exploration Logging, Inc. Noise subtraction filter. 4,642,800, 2-10-87, Cl. 367-85.000.
Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, to Kubota, Ltd. Cooling means for the squish part of an air cooling overhead valve engine. 4,633,824, 1-6-87, Cl. 123-41.650.
Umeda, Tatsutoshi; Tani, Yoshio; Kaai, Takeshi; Nakano, Keiichi; and Izui, Yoshio, to Kubota Limited. Valve moving system of an overhead valve engine. 4,686,946, 8-18-87, Cl. 123-90.410.
Umeda, Tatsutoshi: *See*—
Hashigaki, Yasunori; and Umeda, Tatsutoshi, 4,664,228, Cl. 184-6.500.
Umeda, Tetsuo: *See*—
Egami, Kazunari; Umeda, Tetsuo; and Nishijma, Yasuo, 4,675,909, Cl. 382-50.000.
Umeda, Yasukazu, to Mitsubishi Denki Kabushiki Kaisha. Demand estimation apparatus. 4,663,723, 5-5-87, Cl. 364-492.000.
Umeda, Yasukazu; and Tsuji, Shintaro, to Mitsubishi Denki Kabushiki Kaisha. Elevator control apparatus. 4,682,673, 7-28-87, Cl. 187-126.000.
Umeda, Yasukazu: *See*—
Tsuji, Shintaro; and Umeda, Yasukazu, 4,662,479, Cl. 187-131.000.
Tsuji, Shintaro; and Umeda, Yasukazu, 4,685,539, Cl. 187-126.000.
Umeda, Yoshiaki; Matsumoto, Ryouhei; Isomura, Hiroyasu; and Shimotaka, Hisakuni, to Fuji Machinery Company, Ltd. Method of tensioning a web of packaging material. 4691,499, 9-8-87, Cl. 53-451.000.
Umeda, Yoshihito: *See*—
Honjo, Takeshi; Takahata, Naomi; Tanaka, Mamoru; and Umeda, Yoshihito, 4,667,951, Cl. 271-259.000.
Umegaki, Kikuo: *See*—
Aoyama, Motoo; Maruyama, Hiromi; Umegaki, Kikuo; and Uchikawa, Sadao, 4,695,425, Cl. 376-415.000.
Umeha, Genkichi; Urano, Shigeru; Hirakawa, Osamu; and Takeguchi, Shunsuke, to Nippon Piston Ring Co., Ltd. Cam shaft and method of manufacture. 4,644,912, 2-24-87, Cl. 123-90.340.
Umeha, Genkichi; Urano, Shigeru; Hirakawa, Osamu; and Takeguchi, Shunsuke, to Nippon Piston Ring Co., Ltd. Method of making a cam shaft. 4,649,011, 3-10-87, Cl. 264-267.000.
Umeha, Genkichi, and Hirakawa, Osamu, to Nippon Piston Ring Co., Ltd. Shaft member. 4,665,766, 5-19-87, Cl. 74-567.000.
Umehara, Akira: *See*—
Kawamura, Kouichi; Aotani, Yoshimasa; Umehara, Akira; and Horie, Seiji, 4,636,459, Cl. 430-288.000.
Umehara, Hajime: *See*—
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuro; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutaro; and Kumiya, Kenichi, 4,678,521, Cl. 148-11.50F.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuro; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutaro; and Kumiya, Kenichi, 4,689,091, Cl. 148-11.50F.
Umehara, Jun: *See*—
Inoguchi, Kenichi; Iwakura, Youchi; and Umehara, Jun, 4,644,919, Cl. 123-438.000.
Inoguchi, Kenichi; Iwakura, Youchi; Tanaka, Hirofumi; and Umehara, Jun, 4,676,204, Cl. 123-179.000.
Umehara, Kazuhiro, to Suzuki Jidosha Kogyo Kabushiki Kaisha. Rotating speed control apparatus for an internal combustion engine. 4,697,560, 10-6-87, Cl. 123-335.000.
Umehara, Kazuyoshi; Yoshida, Keizo; Tanaka, Hirokazu; Ueda, Itsuo; Kohsaka, Masanobu; and Imanaka, Hiroshi, to Fujisawa Pharmaceutical Co., Ltd. N-acyl peptide, processes for their preparation and pharmaceutical compositions thereof. 4,640,990, 2-17-87, Cl. 514-18.000.
Umehara, Kazuyoshi: *See*—
Ezaki, Masami; Hashimoto, Seiji; Komori, Tadaaki; Umehara, Kazuyoshi; and Kohsaka, Masanobu, 4,654,211, Cl. 424-116.000.
Umehara, Masaakira, to Ricoh Co., Ltd. Optical information recording medium. 4,707,431, 11-17-87, Cl. 430-271.000.
Umehara, Masaakira: *See*—
Abe, Michiharu; Umehara, Masaakira; Sato, Tsutomu; Ohta, Hideaki; Ueda, Yutaka; and Kunikane, Makoto, 4,696,892, Cl. 430-495.000.
Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Ohta, Hideaki; and Ueda, Yutaka, 4,656,121, Cl. 430-495.000.
Sato, Tsutomu; Umehara, Masaakira; Abe, Michiharu; Ohta, Hideaki; and Ueda, Yutaka, 4,714,667, Cl. 430-270.000.
Umehara, Shoji; Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; and Ishikawa, Shozo, to Canon Kabushiki Kaisha. Photosensitive member for electrophotography comprising azo pigments. 4,666,810, 5-19-87, Cl. 430-71.000.
Umehara, Shoji: *See*—
Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; Umehara, Shoji; and Ishikawa, Shozo, 4,702,982, Cl. 430-72.000.
Umekawa, Osamu; and Katayama, Sakae, to Katayama Chemical Works Co., Ltd.; and Yoshitomi Pharmaceutical Industries, Ltd. Microbicidal/microbistatic compositions for industrial use employing 4,5-dichloro-1,2-dithiol-3-one and haloacetic acid esters as the active agents. 4,647,577, 3-3-87, Cl. 514-441.000.
Umeki, Koichi: *See*—
Hibino, Ikuo; and Umeki, Koichi, 4,654,674, Cl. 346-76.0PH.
Umeki, Tsunenori: *See*—
Mizugaki, Shigeo; and Umeki, Tsunenori, 4,639,892, Cl. 365-182.000.
Umeki, Yoshihiko: *See*—
Akihama, Shigeyuki; Saito, Makoto; Kawamoto, Akio; Banno, Tadashi; Umeki, Yoshihiko; and Nakamura, Takumi, 4,700,519, Cl. 52-309.160.
Umeki, Yoshitaka; and Yamada, Kazuyoshi, to NEC Corporation. Master-slave type flip-flop circuits. 4,689,497, 8-25-87, Cl. 307-272.00A.
Umeki, Yoshitaka, to NEC Corporation. Schmitt trigger circuit. 4,694,198, 9-15-87, Cl. 307-290.000.
Umemoto, Akio: *See*—
Aoki, Yuji; Horiuchi, Hidenaga; Umemoto, Akio; and Miura, Norio, 4,696,868, Cl. 428-690.000.
Umemoto, Chiyuki; and Arakawa, Satoshi, to Fuji Photo Film Co., Ltd. Phosphor and radiation image storage panel employing the same. 4,689,278, 8-25-87, Cl. 428-690.000.
Umemoto, Chiyuki: *See*—
Takahashi, Kenji; Umemoto, Chiyuki; and Kato, Hisatoyo, 4,710,626, Cl. 250-327.200.
Umemoto, Hiroshi: *See*—
Suzuki, Hirosuke; Yasumoto, Hiromi; and Umemoto, Hiroshi, 4,639,693, Cl. 333-1.000.
Umemoto, Hirotoshi: *See*—
Satoh, Haruhiko; Tanabe, Hisaki; and Umemoto, Hirotoshi, 4,680,348, Cl. 525-528.000.
Umemoto, Makoto; Nakamura, Kotaro; and Furutachi, Nobuo, to Fuji Photo Film Co., Ltd. Color photographic material containing certain combinations of cyan and magenta couplers. 4,696,893, 9-29-87, Cl. 430-543.000.
Umemoto, Makoto: *See*—
Aoki, Kozo; Ono, Michio; Saito, Naoki; and Umemoto, Makoto, 4,686,177, Cl. 430-553.000.

Umemoto, Masuo; Eto, Yoshizumi; Kanada, Hidehiro; and Rokuda, Morito, to Hitachi, Ltd.; and Hitachi Denshi Kabushiki Kaisha. Digital data playback system. 4,700,240, 10-13-87, Cl. 360-48.000.

Umemoto, Masuo; *See*—
Eto, Yoshizumi; Umemoto, Masuo; Kanada, Hidehiro; and Mita, Seiichi. 4,698,811, Cl. 371-38.000.
Izumita, Morishi; Mita, Seiichi; Umemoto, Masuo; Kanada, Hidehiro; and Rokuda, Morito, 4,661,956, Cl. 371-38.000.

Umemoto, Mitsumasa; *See*—
Yoshimoto, Takeo; Umemoto, Mitsumasa; Igarashi, Kenchi; Kubota, Yutaka; Yamazaki, Hideo; Enomoto, Yuji; and Yanagita, Hirohisa, 4,692,466, Cl. 514-604.000.

Umemoto, Sumio; Hattori, Eiichi; and Kamakari, Ryutaro, to Toyo Rubber Industry Co., Ltd.; The. Method of casting urethane elastomer on metal. 4,639,384, 1-27-87, Cl. 427-290.000.

Umemoto, Yasunari; Takahashi, Susumu; and Ono, Yuichi, to Hitachi, Ltd. FET with Fermi level pinning between channel and heavily doped semiconductor gate. 4,698,652, 10-6-87, Cl. 357-16.000.

Umemoto, Yasunari; *See*—
Ueyanagi, Kuichi; Takahashi, Susumu; Usagawa, Toshiyuki; Umemoto, Yasunari; and Tsukada, Toshihisa, 4,683,487, Cl. 357-34.000.

Umemoto, Yonetsugu; Shirasawa, Hiroshi; Ogo, Muneya; Kitoshita, Kazumasa; and Kondo, Tetsuo, to Toyota Jidosha Kabushiki Kaisha; and Odai Tekko Kabushiki Kaisha. Ball joint. 4,690,581, 9-1-87, Cl. 403-133.000.

Umemura, Hiroo, to Taiho Kogyo Co., Ltd. Method and apparatus for measuring wall thickness of a workpiece. 4,638,568, 1-27-87, Cl. 33.549.000.

Umemura, Hiroyuki; Matsuda, Kenji; Tezuka, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Matsuoka, Fumio; and Iijima, Hitoshi, to Mitsubishi Denki Kabushiki Kaisha. Air conditioning apparatus. 4,709,554, 12-1-87, Cl. 62-156.000.

Umemura, Hiroyuki; Matsuda, Kenji; Tezuka, Tomofumi; Isono, Kazuaki; Ishioka, Hidenori; Sugawara, Sakuo; and Hara, Masanori, to Mitsubishi Denki Kabushiki Kaisha. Air conditioning method. 4,715,191, 12-29-87, Cl. 62-208.000.

Umemura, Kaoru; *See*—
Ishitani, Tohru; Tamura, Hitumi; and Umemura, Kaoru. 4,697,086, Cl. 250-492.200.

Umemura, Masashi; Komishi, Masanori; Fukushima, Aritoshi; Hisano, Junichi; and Okamoto, Toshiaki, to Asahi Denka Kogyo K.K. Molybdenum-containing lubricant composition. 4,692,256, 9-8-87, Cl. 252-32.70E.

Umemura, Shin'ichiro; Takeuchi, Hiroshi; Katakura, Kageyoshi; and Nakaya, Chitose, to Hitachi, Ltd.; and Hitachi Medical Corporation. Piezoelectric ultrasonic transducer with acoustic matching plate. 4,680,499, 7-14-87, Cl. 310-334.000.

Umemura, Shinichiro; Takeuchi, Hiroshi; and Katakura, Kageyoshi, to Hitachi, Ltd.; and Hitachi Medical Corporation. Ultrasonic transducer of monolithic array type. 4,692,654, 9-8-87, Cl. 310-334.000.

Umemura, Shinichiro; *See*—
Kato, Noboru; Matsuura, Hideji; and Umemura, Shinichiro, 4,701,830, Cl. 361-395.000.
Ogawa, Toshio; Kondo, Shinichi; Umemura, Shinichiro; and Katakura, Kageyoshi, 4,679,176, Cl. 367-119.000.

Umemura, Shizuo, to Research Development Corporation of Japan, a part interest. Method of forming ultrafine patterns. 4,713,258, 12-15-87, Cl. 427-35.000.

Umemura, Shunji; *See*—
Tanaka, Yutaka; and Umemura, Shunji, 4,694,330, Cl. 358-27.000.

Umemura, Toshikazu; Masumoto, Isamu; and Iha, Yukihiro, to Mitsubishi Gas Chemical Company, Inc. Process for producing oxymethylene copolyer. 4,681,927, 7-21-87, Cl. 528-232.000.

Umemura, Yoichi; *See*—
Shibuki, Osamu; Matsuyama, Noboru; Umemura, Yoichi; Kamiya, Atsushi; Fujii, Takaya; Seki, Masayuki; and Ohta, Norio, 4,664,352, Cl. 248-562.000.

Umemura, Yoshihiro; *See*—
Mochizuki, Masatsugu; Umemura, Yoshihiro; Sakammoto, Izumi; and Takagi, Kumihiko, 4,675,347, Cl. 523-122.000.
Mochizuki, Masatsugu; Jige, Masanobu; and Umemura, Yoshihiro, 4,696,672, Cl. 604-128.000.

Umeno, Hiroshi; *See*—
Tada, Yukio; Umeno, Hiroshi; Sugimoto, Yasuhiro; and Oka, Hideo, 4,692,123, Cl. 440-77.000.

Umeno, Masayoshi; *See*—
Kondo, Tatsuhei; Ito, Kaname; Ikeda, Shoichiro; Umeno, Masayoshi; and Ichikawa, Kenji, 4,673,391, Cl. 604-141.000.

Umenoto, Masuo; Mita, Seiichi; Izumita, Morishi; Michikawa, Yuuichi; Rokuda, Morito; Katayama, Hitoshi; and Kanada, Hidehiro, to Hitachi, Ltd.; and Hitachi Denshi Kabushiki Kaisha. Method of magnetically recording coded digital video signals and an apparatus therefor. 4,670,797, 6-2-87, Cl. 358-310.000.

Umeoka, Akio; *See*—
Watanabe, Kazuo; Shougase, Hajime; and Umeoka, Akio, 4,634,139, Cl. 280-288.000.

Umeoka, Norihiro; *See*—
Watanabe, Yoshimi; Umeoka, Norihiro; and Kuroda, Hiroshi, 4,661,890, Cl. 362-217.000.

Umesaki, Kenichiro; *See*—
Sonobe, Youji; Tamura, Youichi; and Umesaki, Kenichiro, 4,643,572, Cl. 356-334.000.

Umeta, Junzo; *See*—
Watari, Toshihiko; and Umeta, Junzo, 4,652,970, Cl. 361-385.000.

Umetani, Katsutoshi; *See*—
Nara, Toshio; Hobo, Sumiya; Kashiwada, Masao; Totsuka, Motoyuki; Hoshiai, Takao; Umetani, Katsutoshi; Akamatsu, Kesuke; Inada, Tomohide; and Takayama, Hisao, 4,639,220, Cl. 433-69.000.

Umetco Minerals Corporation; *See*—
Ramachandran, Sundaresan; Skiles, David O.; and Hansen, Donald J., 4,701,309, Cl. 423-20.000.

Umetsu, Chiharu; *See*—
Hattori, Torao; Takagi, Yasushi; Tange, Akira; Umetsu, Chiharu; Kudo, Osamu; Kurimoto, Kiyoshi; and Katamura, Rou, 4,698,050, Cl. 474-242.000.

Umetsu, Junichi, to Hoxan Corporation. Method for producing polyacetylene film. 4,675,137, 6-23-87, Cl. 264-81.000.

Umetsu, Junichi; *See*—
Hide, Ichiro; and Umetsu, Junichi, 4,663,123, Cl. 422-131.000.

Umeya, Kazumasa; Shiou, Ryoichi; Senzaki, Hisao; Nakagawa, Hisao; Koyama, Shoji; and Kataoka, Hideshi, to TDK Corporation. PTC heating apparatus. 4,654,510, 3-31-87, Cl. 219-541.000.

Umeyama, Hideaki; *See*—
Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,656,269, Cl. 544-139.000.
Iizuka, Kinji; Kamijo, Tetsuhide; Kubota, Tetsuhiro; Akahane, Kenji; Umeyama, Hideaki; and Kiso, Yoshiaki, 4,711,958, Cl. 544-139.000.

Umeyama, Mitsuhiro; Wakahara, Kaoru; Ohtani, Hisae; Kametaka, Kenichi; Kinoshita, Masaru; and Kobayashi, Nobuyuki, to Toyota Jidosha Kabushiki Kaisha; and Nok-Megulastik Co., Ltd. Clutch damper. 4,693,354, 9-15-87, Cl. 192-106.100.

Umeyama, Satoshi; *See*—
Kodama, Mikio; Ito, Akitoshi; Yano, Motoichi; Fujiwara, Takayoshi; and Umeyama, Satoshi, 4,705,827, Cl. 525-67.000.

Umezaki, Hiroshi; *See*—
Kadokura, Hidekimi; Umezaki, Hiroshi; and Higuchi, Yoshiharu, 4,650,895, Cl. 556-182.000.
Kadokura, Hidekimi; Umezaki, Hiroshi; and Murakami, Hideaki, 4,671,993, Cl. 428-323.000.
Kadokura, Hidekimi; Umezaki, Hiroshi; Murakami, Hideaki; and Mizoe, Toshiyuki, 4,708,266, Cl. 423-600.000.

Umezaki, Isao; *See*—
Nakai, Kimimoto; and Umezaki, Isao, 4,697,590, Cl. 128-396.000.

Umezaki, Kazunori; *See*—
Uesaka, Sadaaki; Numata, Toshio; and Umezaki, Kazunori, 4,681,229, Cl. 209-534.000.

Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki, to Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai. 3'-fluoro-3'-deoxykanamycin A. 4,634,688, 1-6-87, Cl. 514-41.000.

Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Iinuma, Hironobu; Ikeda, Daishiro; Nakamura, Teruya; and Fujii, Akio, to Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai. 11-O-methylspergualin. 4,658,058, 4-14-87, Cl. 564-159.000.

Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki, to Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai. 2',3'-dideoxy-2'-fluorokanamycin A and 1-N-(α-hydroxy-ω-aminoalkanoyl) derivatives thereof. 4,661,474, 4-28-87, Cl. 514-41.000.

Umezawa, Hamao; Takeuchi, Tomio; Aoyagi, Takaaki; and Obuchi, Shokichi, to Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai. Arphamenine-related compounds useful for potentiating the immune response in a living animal. 4,661,495, 4-28-87, Cl. 514-275.000.

Umezawa, Hamao; Aoyagi, Takaaki; Takeuchi, Tomio; Hamada, Masa; and Ishizuka, Masaaki, to Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai. Pharmaceutical composition and method for immunopotentiation. 4,663,342, 5-5-87, Cl. 514-423.000.

Umezawa, Hamao; Takeuchi, Tomio; Hamada, Masa; Naganawa, Hiroshi; Sawa, Tsutomu; Imoto, Masaya; Iinuma, Hironobu; Uchida, Takeshi; and Isshiki, Kunio, to Microbial Chemistry Research Foundation. Novel physiologically active substance MH435. 4,686,308, 8-11-87, Cl. 564-219.000.

Umezawa, Hamao; Takeuchi, Tomio; Nagatsu, Toshiharu; Hamada, Masa; Iwadare, Shuichi; Matsumoto, Iku; and Morishima, Hajime, to Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai; and Banyu Pharmaceutical Co., Ltd. Process for microbial production of an optically active 3-(3,4-dihydroxyphenyl)serine. 4,699,879, 10-13-87, Cl. 435-116.000.

Umezawa, Hamao; Suzuki, Shintaro; Ohkuma, Takaaki; Sato, Fumihiro; and Nakamura, Teruya, to Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai. Medical composition for injection containing a spergualin as active ingredient and process for preparing the same. 4,710,517, 12-1-87, Cl. 514-616.000.

Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Tanaka, Yoshiaki; Wataru; Takita, Tomohisa; Nishimura, Yoshio; and Yoshikawa, Hiroshi, to Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai. 4'-demethyl-4-epipodophyllotoxin derivative. 4,716,221, 12-29-87, Cl. 536-17.200.

Umezawa, Hamao; *See*—
Someno, Tetsuya; Kato, Kazuo; Takahashi, Yasushi; Ishii, Shinichi; Takeuchi, Tomio; and Umezawa, Hamao, 4,708,944, Cl. 502-7.000.

Umezawa, Isao; *See*—
Minami, Toshihiko; Umezawa, Isao; and Shintani, Kenji, 4,669,071, Cl. 369-44.000.

Umezawa, Iwao; *See*—
Komiyama, Kanki; Funayama, Shinji; and Umezawa, Iwao, 4,701,324, Cl. 424-118.000.

Umezawa, Kazumi. *See*—
Komori, Shigehiro; Sakamaki, Hisashi; Hattori, Hiroyuki; Iida, Toshihide; Miyamoto, Koichi; and Umezawa, Kazumi, 4,662,740, Cl. 355-3.0SH.

Umezawa, Michio, to Ricoh Company Ltd. Sheet clamping device. 4,660,825, 4-28-87, Cl. 271-276.000.

Umezawa, Norihiro; and Hata, Kazuyuki, to Mitsubishi Yuka Fine Chemicals Co., Ltd.; and Umezawa, Norihiro. Hydraulic cement composition and process for producing cement shapings. 4,684,407, 8-4-87, Cl. 106-90.000.

Umezawa, Norio. *See*—
Maki, Yohji; and Umezawa, Norio, 4,638,203, Cl. 310-239.000.
Ueda, Takemi; and Umezawa, Norio, 4,677,335, Cl. 310-268.000.

Umezawa, Sumio. *See*—
Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki, 4,634,688, Cl. 514-41.000.
Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki, 4,661,474, Cl. 514-41.000.

Umezawa, Takashi; and Watanabe, Koji, to Nifco, Inc. Latch device. 4,709,949, 12-1-87, Cl. 292-6.000.

Umezawa, Toshimitsu, to Kabushiki Kaisha Toshiba. Vertical contour correction device. 4,654,709, 3-31-87, Cl. 358-166.000.

Umezawa, Toshimitsu, to Kabushiki Kaisha Toshiba. Vertical contour correction device. 4,658,295, 4-14-87, Cl. 358-166.000.

Umezawa, Toshimitsu, to Kabushiki Kaisha Toshiba. Automatic white control circuit for color television receiver. 4,679,065, 7-7-87, Cl. 358-29.000.

Umezawa, Yujiro, to Bridgestone Corporation. Steel cords for the reinforcement of rubber articles. 4,707,975, 11-24-87, Cl. 57-212.000.

Umezu, Kenji, to Kabushiki Kaisha Toshiba. Frequency converting device and control method therefor. 4,656,571, 4-7-87, Cl. 363-37.000.

Umezu, Mitsuo, to Sony Corporation. Loudspeaker terminal strip. 4,703,508, 10-27-87, Cl. 381-188.000.

Umezu, Takao; Ishiguro, Minoru; and Nishizawa, Tetsuo, to Fuji Photo Optical Co., Ltd. Camera. 4,641,935, 2-10-87, Cl. 354-173.110.

Umholtz, Robert. *See*—
Lane, Darryl; Barr, B. G.; Dutton, Mike; Frain, Mike; Frechette, Simon; Hummel, Keith; Majerle, John; Majerle, Joseph; Rogers, Steve; Unger, Mark; and Umholtz, Robert, 4,664,366, Cl. 269-303.000.

Umiker, Hans, to Alexander Schoeller & Co. AG. Method for sorting out certain containers, such as industrial containers, bottle crates etc. from a stock of containers and a device on a container for the identification of a to be sorted out container. 4,690,751, 9-1-87, Cl. 209-3.300.

Umino, Hiroshi. *See*—
Yamada, Tomiaki; Kamihonoki, Masuo; Sagara, Hiroshi; and Umino, Hiroshi, 4,680,263, Cl. 435-162.000.

Umino, Kunio, to Kabushiki Kaisha Sankyo Seiki Seisakusho; and Tokyo Pigeon Co., Ltd. Tape double-cassette recorder. 4,698,705, 10-6-87, Cl. 360-92.000.

Umino, Mitsugu, to Yoshida Kogyo K. K. Apparatus for attaching boxes to slide fasteners with separable box and pin of synthetic resin. 4,697,319, 10-6-87, Cl. 29-33.200.

Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, to Kawasaki Steel Corporation. High corrosion resistance composite plated steel strip. 4,650,724, 3-17-87, Cl. 428-659.000.

Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, to Kawasaki Steel Corporation. Method for making high corrosion resistance composite plated steel strip. 4,702,802, 10-27-87, Cl. 204-28.000.

Umio, Suminori; Kamimura, Toshiaki; Kamishita, Takuzo; and Mine, Yasuhiro, to Fujisawa Pharmaceutical Co., Ltd.; and Toko Yakuhin Kogyo Co., Ltd. Antifungal composition employing pyrrolnitrin in combination with an imidazole compound. 4,636,520, 1-13-87, Cl. 514-399.000.

Umland, Henning; and Fricke, Gerhard, to Continental Gummi-Werke Aktiengesellschaft. Lubricant for a tire and wheel assembly. 4,696,753, 9-29-87, Cl. 252-26.000.

Umlauf, Norbert. *See*—
Oberlander, Karol H.; and Umlauf, Norbert, 4,638,701, Cl. 83-490.000.

Umpleby, Jeffrey D. *See*—
Bullen, David J.; and Umpleby, Jeffrey D., 4,707,517, Cl. 525-72.000.

Un, Chong K.; Ryu, Seung M.; and Lee, Chong R., to Korea Advanced Institute of Science and Technology. Local area network system utilizing a code division multiple access method. 4,701,905, 10-20-87, Cl. 370-18.000.

Unaform Inc. *See*—
Fearnhead, Ivan J., 4,642,261, Cl. 428-225.000.

Unander-Scharin, Hans E. Break-down shelving assembly. 4,685,400, 8-11-87, Cl. 108-111.000.

Unangst, Paul C. *See*—
Connor, David T.; Unangst, Paul C.; and Stabler, S. Russell, 4,675,332, Cl. 514-381.000.
Connor, David T.; Cetenko, Wiaczeslaw A.; Unangst, Paul C.; and Johnson, Elizabeth A., 4,703,053, Cl. 514-382.000.

Unarco Industries, Inc. *See*—
Klein, Herbert H., 4,712,696, Cl. 211-192.000.

Uncommon Conglomerates, Inc. *See*—
Mason, William H., III, 4,702,783, Cl. 156-64.000.

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Quirk, Jennifer M.; and Kanner, Bernard, 4,658,093, Cl. 556-479.000.
Quirk, Jennifer M.; and Kanner, Bernard, 4,668,812, Cl. 556-466.000.
Rabo, Jule A.; and Coughlin, Peter K., 4,652,558, Cl. 502-66.00.
Rao, Chennupati K.; Arora, Sudershan K.; Grover, Raman, Dehradun, John A.; and D'Silva, Themistocles D. J., 4,637,901, Cl. 260-544.00C.
Rao, Chennupati K.; and D'Silva, Themistocles D., 4,686,253, Cl. 514-469.000.
Reichle, Walter T., 4,667,013, Cl. 528-414.000.
Ross, Ronald J.; and Sherman, John D., 4,666,693, Cl. 423-328.000.
Salensky, George A., 4,638,038, Cl. 525-533.000.
Salensky, George A., 4,711,817, Cl. 428-418.000.
Salensky, George A., 4,711,924, Cl. 524-402.000.
Salensky, George A., 4,715,977, Cl. 252-62.540.
Sherman, John D.; Nagji, Moez M.; Ross, Ronald J.; Asukaitis, Joseph P.; and Garg, Desh R., 4,663,052, Cl. 210-679.000.
Sherwin, Maynard A.; and Koleske, Joseph V., 4,711,944, Cl. 526-318.420.
Simroth, Donald W.; Critchfield, Frank E.; and Myerly, Richard C., 4,652,589, Cl. 521-137.000.
Skeels, Gary W.; and Breck, Donald W., deceased, 4,711,770, Cl. 423-328.000.
Smilanich, Nicholas J.; and Wesner, John A., 4,663,247, Cl. 429-94.000.
Snyder, William J.; and Kobayashi, Hisashi, 4,693,681, Cl. 431-10.000.
Snyder, William J., 4,699,586, Cl. 431-6.000.
Soo, Hwaili; and Robson, John H., 4,701,571, Cl. 568-867.000.
Stamberger, Paul, 4,647,624, Cl. 525-187.000.
Tallon, James A.; and Lewis, Richard T., 4,715,897, Cl. 106-284.000.
Topcik, Barry, 4,659,746, Cl. 521-89.000.
Tucholski, Gary R., 4,656,104, Cl. 429-185.000.
Wagner, Burkhard E.; Karol, Frederick J.; Goeke, George L.; Jorgensen, Robert J.; and Frus, Nils, 4,684,703, Cl. 526-89.00.
Ward, Thomas H.; Costanzo, Phillip A.; Pietrasz, Vincent; and Soeder, Edmund J., 4,642,516, Cl. 313-481.000.
Ward, Thomas H.; Costanzo, Phillip A.; Pietrasz, Vincent; and Soeder, Edmund J., 4,710,344, Cl. 419-8.000.
Weber, Robert J., Jr., 4,656,237, Cl. 526-370.000.
Wegman, Richard W.; and Abatjoglou, Anthony G., 4,670,570, Cl. 556-18.000.
Wheeler, Thomas N., 4,659,372, Cl. 71-106.000.
Williams, Thomas C., 4,701,488, Cl. 524-266.000.
Wilson, Stephen T.; and King, Lisa, 4,663,139, Cl. 423-305.000.
Wilson, Stephen T.; Woodard, Naomi A.; and Flanigen, Edith M., 4,690,808, Cl. 423-305.000.
Zarchy, Andrew S.; Volles, Warren K.; and O'Keefe, Luke F., 4,709,116, Cl. 585-738.000.

Union Connector Co., Inc.: *See*—
Kalbfeld, Jack W., 4,640,984, Cl. 174-135.000.

Union Corporation, The: *See*—
Bohm, Fred, 4,699,270, Cl. 206-334.000.

Union Electric Corp.: *See*—
Fang, Alan, 4,662,854, Cl. 446-175.000.

Union Explosivos Rio Tinto, S.A.: *See*—
Portela, Luis S., 4,668,495, Cl. 423-395.000.

Union Financiere pour le Development de l'Economie Cerealiere-Ugrains: *See*—
Villemin, Daniel, and Romand, Paul, 4,656,692, Cl. 17-44.100.

Union Laitiere Normande: *See*—
Grandin, Claude; Champagneux, Daniel; and d'Aprigny, Philippe D., 4,676,475, Cl. 249-105.000.

Union Oil Company of California: *See*—
Ackelson, Donald B.; Moorehead, Eric L.; Ward, John W.; and Probst, Jon D., 4,695,365, Cl. 208-89.000.
Biale, John, 4,652,603, Cl. 524-547.000.

Biale, John, 4,716,085, Cl. 428-476.900.
Block, Michael J., 4,707,299, Cl. 252-400.100.
Broadus, John G., 4,648,458, Cl. 166-370.000.
Clark, Danford E., 4,689,137, Cl. 208-89.000.
Croudace, Michael C.; Wusz, Timothy; and Brass, Stephen G., 4,699,629, Cl. 44-79.000.
Croudace, Michael C.; Mendelson, Leah T.; and Holstedt, Richard A., 4,701,274, Cl. 252-46.300.
Dillon, Diane M., 4,647,288, Cl. 44-52.000.
Duthweiler, Frederick C., 4,676,695, Cl. 405-157.000.
Ebenhack, Ben W.; and Floran, Robert J., 4,691,772, Cl. 166-254.000.
Fenton, Donald M.; Holm, LeRoy W.; and Saunders, Dennis L., 4,664,809, Cl. 210-663.000.
Gallus, Julius P., 4,674,572, Cl. 166-285.000.
Green, James A., II; and Young, Donald C., 4,645,859, Cl. 564-38.000.
Green, James A., II; and Young, Donald C., 4,645,860, Cl. 564-73.000.
Harbolt, Bruce; Snake, James T.; and Jackson, Douglas J., 4,705,432, Cl. 406-60.000.
Harbolt, Bruce; Murata, Perry L.; and Burmaster, Neal C., 4,710,360, Cl. 422-269.000.
Hass, Robert H., 4,675,169, Cl. 423-563.000.
Ho, Phillman N., 4,695,373, Cl. 208-428.000.
Holm, LeRoy W., 4,706,752, Cl. 166-273.000.
Holstedt, Richard A.; and Jessup, Peter J., 4,657,686, Cl. 252-47.500.
Hutchins, Richard D.; and Dovan, Hoai T., 4,694,906, Cl. 166-294.000.
Jessup, Peter; Holstedt, Richard A.; and Baron, Kenneth, 4,686,056, Cl. 252-49.700.
Jessup, Peter J.; Brass, Stephen G.; and Croudace, Michael C., 4,647,292, Cl. 44-66.000.
Johnson, Clyde R.; Hawryluk, Raymond; and Katrencik, Gerald, 4,702,694, Cl. 432-133.000.
Jung, Douglas B., 4,654,061, Cl. 55-452.000.
Kalfayan, Leonard J.; Watkins, David R.; and Hewgill, Gregory S., 4,708,207, Cl. 166-295.000.
Kokayeff, Peter, 4,645,587, Cl. 208-91.000.
Landry, James F.; Croudace, Michael C.; Ott, Harry P., Jr.; and Shen, Sidney Y., 4,655,949, Cl. 252-51.500R.
Mester, Zoltan C.; and Aitken, Edward J., 4,642,177, Cl. 208-113.000.
Mester, Zoltan C.; and Aitken, Edward J., 4,686,204, Cl. 502-406.000.
Miller, J. Wayne; and Ward, John W., 4,695,366, Cl. 208-91.000.
Moorehead, Eric L., 4,659,530, Cl. 549-260.000.
Moorehead, Eric L.; and Shen, Sidney Y., 4,699,707, Cl. 208-57.000.
Occelli, Mario L., 4,708,786, Cl. 208-120.000.
Shugarman, Arnold L., 4,704,260, Cl. 423-92.000.
Svoboda, Daniel; Hordinski, Steven; Severns, Dale R.; and Hooker, Howard W., 4,634,330, Cl. 414-198.000.
Switzer, Jay A., 4,644,638, Cl. 29-572.000.
Switzer, Jay A., 4,663,004, Cl. 204-129.000.
Switzer, Jay A., 4,706,104, Cl. 357-67.000.
Vaik, Dennis A., 4,686,775, Cl. 34-9.000.
Ward, John W., 4,648,958, Cl. 208-59.000.
Ward, John W., 4,664,776, Cl. 208-111.000.
Ward, John W.; Carlson, Timothy L.; and Millman, William S., 4,672,048, Cl. 502-66.000.
Ward, John W., 4,683,050, Cl. 208-110.000.
Ward, John W., 4,686,030, Cl. 208-216.0PP.
Ward, John W., 4,695,368, Cl. 208-111.000.
Watkins, David R.; Kalfayan, Leonard J.; and Hewgill, Gregory S., 4,646,835, Cl. 166-295.000.
Wong, Morton M.; and Shugarman, Arnold L., 4,710,367, Cl. 423-335.000.
Young, Donald C.; and Green, James A., II, 4,650,901, Cl. 564-73.000.
Young, Donald C.; and Green, James A., II, 4,654,442, Cl. 564-73.000.
Young, Donald C.; and Green, James A., II, 4,658,059, Cl. 564-73.000.
Young, Donald C., 4,664,717, Cl. 127-37.000.
Young, Donald C., 4,673,522, Cl. 252-87.000.
Young, Donald C., 4,682,999, Cl. 71-28.000.
Young, Donald C., 4,686,017, Cl. 204-45.100.
Young, Donald C.; and Green, James A., II, 4,698,443, Cl. 564-38.000.
Young, Donald C., 4,699,633, Cl. 55-5.000.
Young, Donald C.; and Green, James A., II, 4,701,555, Cl. 564-38.000.

Union Siderurgique du Nord et de l'Est de la France (USINOR). *See*—
Brun, Chalres G. H.; Bailleul, Jean F.; Lecendre, Fuddy; and Coolen, Franueine, 4,663,956, Cl. 72-167.000.
Cordier, Jean; and Lemaire, Marcel, 4,649,867, Cl. 122-5.000.
Cordier, Jean, 4,697,273, Cl. 373-72.000.
Rollot, Pierre; Pierrat, Gerard; and Le Scour, Claude, 4,669,708, Cl. 266-193.000.

Union Special Corporation. *See*—
Ishikawa, Yoichiro, 4,688,446, Cl. 74-579.00E.
Schwaab, Konstantin, 4,679,514, Cl. 112-235.000.
Wolff, James W.; and Hsiao, James C., 4,671,195, Cl. 112-199.000.
Union Special G.m.b.H. *See*—
von Hagen, Wolf R., 4,633,795, Cl. 112248.000.

Unipat AG. *See*—
Thoma, Christian H.; and Arnold, George D. M., 4,635,535, Cl. 91-498.000.
Thoma, Christian H.; and Arnold, George D. M., 4,686,829, Cl. 60-464.000.
Thoma, Christian H.; Arnold, George D. Mc.; and Blair, Arthur A., 4,691,512, Cl. 60-456.000.

Uniqey (Hong Kong) Limited. *See*—
Yamashita, Toshihiko, 4,712,171, Cl. 361-142.000.

Uniqey International Ltd.. *See*—
Yamashita, Toshihiko, 4,649,725, Cl. 70472.000.

Unique Industries, Incorporated. *See*—
Crawford, Thomas A.; and Russell, William H., 4,655,650, Cl. 408-225.000.

Uniroyal Chemical Company, Inc.. *See*—
Brewer, Arthur D.; and Minatelli, John A., 4,634,707, Cl. 514-270.000.
Brewer, Arthur D.; and Minatelli, John A., 4,636,508, Cl. 514-274.000.
Brouwer, Walter G.; and Blem, Allen R., 4,664,694, Cl. 71-90.000.
Brouwer, Walter G.; Bell, Allyn R.; Blem, Allen R.; and Davis, Robert A., 4,675,044, Cl. 71-73.000.
Cantor, Stephen E., 4,671,996, Cl. 428-43.000.
Crepeau, Allen E., 4,666,785, Cl. 428-521.000.
Dekeyser, Mark A.; Pierce, Benjamin J.; Moore, Richard C.; and Hubbard, Winchester L., 4,634,690, Cl. 514-81.000.
Dekeyser, Mark A.; Mishra, Anupama; and Moore, Richard C., 4,670,555, Cl. 544-68.000.
Fithian, Luke E.; and Cesare, Frank C., 4,657,938, Cl. 521-96.000.
Hunter, Byron A.; Rowland, Donald C.; and Peascoe, Warren J., 4,634,721, Cl. 521-92.000.
Jancis, Elmar H.; and Stott, Paul E., 4,664,845, Cl. 252-401.000.
Johnson, Constance A.; and Merijanian, Aspet V., 4,663,237, Cl. 428-500.000.
Loveless, Frederick C., 4,642,410, Cl. 585-524.000.
Plant, Howard L.; Regts, Richard R.; and Moore, Richard C., 4,654,330, Cl. 514-89.000.
Rim, Yong S.; and Matthews, Demetreos N., 4,668,834, Cl. 585-12.000.
Rowland, Donald G.; Hunter, Byron A.; and Hansen, Lee D., 4,655,962, Cl. 252-350.000.
Rowland, Donald G.; Hunter, Byron A.; and Hansen, Lee D., 4,692,475, Cl. 521-92.000.
Strunk, Richard J.; and Moore, Richard C., 4,640,927, Cl. 514-342.000.
Zuckerman, Bert M.; and Jansson, Hans-Boerje, 4,689,231, Cl. 424-193.100.

Uniroyal Englebert Reifen GmbH. *See*—
Poque, Dionysius J.; and Zinnen, Norbert, 4,641,670, Cl. 152-158.000.
Zinnen, Norbert, 4,676,288, Cl. 152-158.000.

Uniroyal Englebert Textilcord S.A.. *See*—
Goetens, Robert L., 4,671,980, Cl. 428-90.000.
Lenards, Gerhard; and Stukenbrock, Karl-Heinz, 4,668,323, Cl. 156-242.000.

Uniroyal Goodrich Tire Company, The. *See*—
Augier, Pierre J., 4,658,876, Cl. 152-396.000.
Collier, Barry L., 4,655,699, Cl. 425-28.00R.
Collier, Barry L., 4,668,456, Cl. 264-16.000.
Hallenbeck, Victor L.; and Rhee, Chong K., 4,666,518, Cl. 106-38.250.
Hong, Sung W.; and Cangelosi, Phillip J., 4,664,168, Cl. 152-504.000.
Rhee, Chong-Kon; McKibben, David M.; and Bibbee, Jeffrey N., 4,637,252, Cl. 73-150.00A.
Rhee, Chong-Kon, 4,647,328, Cl. 156-128.100.
Rogers, Clarence L., 4,669,228, Cl. 51-281.00R.
Tolonen, Eric; Tubbe, Clifford J.; Giesbrecht, George G.; and Wiens, John A., 4,683,095, Cl. 264-171.000.

Uniroyal Ltd.. *See*—
Brewer, Arthur D.; and Minatelli, John A., 4,634,707, Cl. 514-270.000.
Brewer, Arthur D.; and Minatelli, John A., 4,636,508, Cl. 514-274.000.
Brouwer, Walter G.; and Blem, Allen R., 4,664,694, Cl. 71-90.000.
Brouwer, Walter G.; Bell, Allyn R.; Blem, Allen R.; and Davis, Robert A., 4,675,044, Cl. 71-73.000.
Dekeyser, Mark A.; Pierce, Benjamin J.; Moore, Richard C.; and Hubbard, Winchester L., 4,634,690, Cl. 514-81.000.
Dekeyser, Mark A.; Mishra, Anupama; and Moore, Richard C., 4,670,555, Cl. 544-68.000.

Uniroyal Plastics Co., Inc.. *See*—
Worns, John R.; Chase, James W.; and Capriotti, Bruce W., 4,684,600, Cl. 430-271.000.
Worns, John R.; Farber, Milton; and Hughes, David T., 4,686,172, Cl. 430-286.000.
Worns, John R., 4,689,290, Cl. 430-216.000.

Uniroyal Power Transmission Co., Inc.. *See*—
Slonewsky, Alexander R.; and Skura, William A., 4,662,863, Cl. 474-251.000.

Unisan Limited. *See*—
Morris, Thomas A.; and Norman, Leslie D., 4,643,211, Cl. 135-67.000.

Unisearch Limited: *See*—
Cook, David J.; and Lim, Nam W., 4,680,059, Cl. 106-120.000.
Farah, Boshra D.; and Woo, Jae L., 4,648,054, Cl. 364-552.000.
Farrell, Peter C.; Bertram, Christopher D.; and Milthorpe, Bruce K., 4,640,896, Cl. 436-34.000.
Horwitz, Christopher M., 4,704,544, Cl. 307-270.000.
Karbowiak, Antoni E.; and Amido, Gary J., 4,663,748, Cl. 370-89.000.
Kelly, John C.; and Kentwell, Glenn W., 4,672,615, Cl. 372-2.000.
Kelly, John C.; and Kentwell, Glenn W., 4,694,457, Cl. 372-2.000.
Szirmai, Stephen G.; Newman, Gerard R.; and Kelly, Philip L., 4,701,941, Cl. 378-122.000.
Unisel Corporation: *See*—
Hawkins, Robert E., 4,651,912, Cl. 227-8.000.
Kopf, Rowland J., deceased; and Flynn, William C., 4,705,200, Cl. 227-9.000.
Unislip, Inc.: *See*—
Peppers, James M., 4,672,786, Cl. 51-241.0VS.
Unisul, Inc.: *See*—
Kaine, Eugene; Woten, Homer G.; and Williston, Everett S., 4,662,221, Cl. 73-599.000.
Uniswitch AG.: *See*—
Nowak, Claude; and Landis, Peter, 4,644,768, Cl. 70-364.00R.
Unisys Corporation: *See*—
Andreasen, David A.; Armstrong, John H.; Buggert, Jerrold E.; Desai, Harshad K.; Baumgardner, Stephen D.; Buckmaster, Kenneth E.; and Hussain, Zubair, 4,695,946, Cl. 364-200.000.
Andreasen, David A.; Buggert, Jerrold E.; Desai, Harshad K.; and Hussain, Zubair, 4,701,845, Cl. 364-200.000.
Beasley, Michael W., 4,682,282, Cl. 364-200.000.
Danilenko, Michael; Rusterholz, John T.; and Lahti, Archie E., 4,691,279, Cl. 364-200.000.
DeMoss, Dean; and Ragle, Herbert U., 4,713,705, Cl. 360-98.000.
Finley, Rufus E., 4,697,266, Cl. 371-12.000.
Flora, Laurence P., 4,686,677, Cl. 371-61.000.
Frandsen, Jorgen, 4,692,999, Cl. 29-596.000.
Gabuzda, Paul G.; and Terrell, Sanford V., 4,715,438, Cl. 165-185.000.
Gal, Laszlo V., 4,682,058, Cl. 307-473.000.
Gal, Laszlo V., 4,697,139, Cl. 324-73.00R.
Gyi, Ko K., 4,707,752, Cl. 360-99.000.
Kim, Dongsung R.; and Kronies, Reinhard K., 4,710,935, Cl. 371-49.000.
McNeal, Norman E.; and Nagy, Richard A., 4,680,075, Cl. 156-289.000.
Metcee, Larry N., 4,706,185, Cl. 363-133.000.
Michaelson, Wayne A., 4,674,032, Cl. 364-200.000.
Miller, John A.; and Walker, James D., 4,698,738, Cl. 363-65.000.
Peterson, LuVerne R., 4,698,812, Cl. 371-38.000.
Rochester, Charles R., Jr., 4,710,591, Cl. 174-35.0GC.
Scarabino, Mario J.; Peter, Emmett B.; and Rettner, Gerald F., 4,687,193, Cl. 271-184.000.
Scheuneman, James H.; Meyer, Joseph H.; and Mackenthun, Donald W., 4,697,233, Cl. 364-200.000.
Schindler, Abbott M.; and Fuchs, Otto, 4,707,948, Cl. 51-216.00R.
Tustaniwskyj, Jerry I.; and Corey, Philip D., 4,677,370, Cl. 324-51.000.
Tustaniwskyj, Jerry I.; and Halkola, Kyle G., 4,698,728, Cl. 361-385.000.
Unit Industries, Inc.: *See*—
Tanny, Michael W., 4,637,541, Cl. 228-180.100.
Unit Rig & Equipment Company: *See*—
Buchanan, Sabern D.; and Faulkner, Stephen L., 4,698,561, Cl. 318-87.000.
Loeber, Frederick W.; Cummins, Nolan W.; Modglin, Rodger L.; and Greene, George O., 4,706,723, Cl. 152-410.000.
Unitaka Ltd.: *See*—
Mochizuki, Masatsugu; Jige, Masanobu; and Umemura, Yoshihiro, 4,696,672, Cl. 604-128.000.
United Aircraft Products, Inc.: *See*—
Gooden, Richmond A., 4,691,739, Cl. 138-31.000.
Rodgers, James E., 4,682,920, Cl. 409-231.000.
United Catalysts Inc.: *See*—
Tso, Su C.; Beall, Gary W.; and Holthouser, Mary C., 4,677,158, Cl. 524-789.000.
United Centrifugal Pumps: *See*—
Cusimano, Andrew D.; and Humes, Danny W., 4,672,171, Cl. 219-121.0PM.
United Chemical Corporation: *See*—
Friedman, Lester; and Hamilton, Jock A., 4,645,577, Cl. 204-62.000.
United Coal Company: *See*—
Smith, Lloyd B., 4,639,320, Cl. 210-739.000.
Smith, Lloyd B., 4,640,770, Cl. 210-144.000.
United Controls, Inc.: *See*—
Hoge, Ned W., 4,651,625, Cl. 91-461.000.
United DC: *See*—
Levine, Marc S., 4,695,205, Cl. 406-38.000.
United Engineering Rolling Mills, Inc.: *See*—
Adair, James R., 4,691,549, Cl. 72-38.000.
Dittmar, Robert W.; and Schmiedberg, Winfried, 4,706,484, Cl. 72-225.000.
United Foam Plastics Corp.: *See*—
Champ, David M., 4,700,832, Cl. 206-320.000.
United Innovations Division of United Engineers, Inc.: *See*—
Parent, Christopher A.; and Voss, James R., 4,697,348, Cl. 33-18.100.
United Kingdom Atomic Energy Authority: *See*—
Asher, James; Tofield, Bruce C.; Wormald, Malcolm R.; Huxtable, George B.; and Conlon, Thomas W., 4,675,527, Cl. 250-393.00.
Bowe, Michael J.; Oruh, Samuel N.; and Singh, Jaswant, 4,693,872, Cl. 210-255.000.
Bradshaw, Leslie, 4,683,752, Cl. 73-642.000.
Clayton, Colin G.; and Spackman, Ramon, 4,696,782, Cl. 376-159.000.
Clayton, Colin G.; and Spackman, Ramon, 4,702,379, Cl. 209-539.000.
Farren, John; and Watkins, Roger D., 4,667,515, Cl. 73-861.000.
Feest, Eric A., 4,674,554, Cl. 164-46.000.
Garlick, David R., 4,675,523, Cl. 250-252.100.
Humphries, John; and Morrison, Neil S., 4,683,056, Cl. 210-186.00.
Jolly, Robert; and Butterfield, Colin E., 4,663,117, Cl. 376-442.000.
Keats, Albert B., 4,639,882, Cl. 364-550.000.
Kennedy, Peter; and Ware, John O., 4,707,459, Cl. 501-90.000.
McKnight, James A.; Macleod, Iain D.; and Burton, Eric J., 4,655,992, Cl. 376-247.000.
Miles, Brynley J., 4,670,303, Cl. 427-213.310.
Parker, John A., 4,652,296, Cl. 364-518.000.
Scott-Kestin, Colin B.; Pike, Roger B.; Watkins, Roger D.; Gillespie, Arthur B.; and Deighton, Michael O., 4,679,430, Cl. 73-290.00V.
Travis, Alan J. B., 4,707,836, Cl. 372-29.000.
Walton, Hyman, 4,658,254, Cl. 340-870.370.
Wedgwood, Francis A.; Peck, Peter F.; and Stevens, Michal F., 4,642,687, Cl. 358-110.000.
Wilson, Eric G., 4,708,742, Cl. 75-252.000.
Woodhead, James L., 4,699,732, Cl. 252-314.000.
United Kingdom and British Telecommunications: *See*—
Robinson, Gordon D.; and Smith, Brian D. V., 4,675,832, Cl. 364-521.000.
United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Defence in Her Britannic Majesty's Government of the: *See*—
Amos, Leonard J.; and Heron, John T., 4,658,726, Cl. 102-501.00.
Banbury, John R., 4,714,320, Cl. 350-174.000.
Bridges, John A.; and Young, Kenneth E., 4,676,636, Cl. 356-153.000.
Conder, Philip C.; Jenkins, Richard M.; and Redding, James R., 4,662,958, Cl. 156-89.000.
Connor, Richard C.; and Rule, Dennis A., 4,633,975, Cl. 182-63.000.
Copp, Warren K., 4,677,713, Cl. 24-598.000.
Copp, Warren K., 4,711,411, Cl. 244-1.00R.
Corbin, Malcolm J.; and Jones, John G., 4,646,227, Cl. 364-184.000.
Cotton, Alfred B., 4,676,168, Cl. 102-402.000.
French, Herbert A., 4,676,642, Cl. 356-346.000.
Gardiner, Robert W.; Viney, Brian W.; and Hughes, Garyth, 4,707,333, Cl. 420-590.000.
Gray, George W.; and Nicholas, Beatrice M., 4,698,176, Cl. 252-299.610.
Green, Geoffrey W.; and Lettington, Alan H., 4,704,339, Cl. 428-689.000.
Griffin, Eric J.; Collier, Richard J.; and Hijpiens, George, 4,641,082, Cl. 324-58.00B.
Haigh, David G.; and Singh, Bhajan, 4,698,596, Cl. 328-127.000.
Irvine, Stuart J. C.; and Mullin, John B., 4,650,539, Cl. 156-613.000.
Jones, David J., 4,664,342, Cl. 244-147.000.
Kam Ming Chan, Lawrence; Gray, George W.; Toyne, Kenneth J.; Lacey, David; Eidenschink, Rudolf; and Romer, Michael, 4,696,549, Cl. 350-350.00R.
Kind, Stuart S.; Sanger, David G.; Twibell, John D.; and Hargraves, John, 4,640,035, Cl. 40-625.000.
Leigh, John W., 4,691,637, Cl. 102-406.000.
Lewis, Meirion F., 4,642,506, Cl. 310-313.0D.
Luttrell, Stephen P.; and Oliver, Christopher J., 4,716,414, Cl. 342-179.000.
Macdonald, William J. J., 4,668,025, Cl. 305-11.000.
Markvart, Tomas; and Willoughby, Arthur F. W., 4,681,983, Cl. 136-255.000.
McFarlane, Norman D.; Glock, Joiin T.; and Hambly, John G., 4,649,587, Cl. 14-2.400.
McWhirter, John G., 4,688,187, Cl. 364-825.000.
Middleton, Andrew J., 4,672,680, Cl. 382-44.000.
Peel, Christopher J.; Evans, Brian; Harris, Samuel J.; Noble, Brian; and Dinsdale, Keith, 4,636,357, Cl. 420-532.000.
Restall, James E.; and Hayman, Cecil, 4,687,684, Cl. 427-248.1D.
Restall, James E.; and Hayman, Cecil, 4,698,130, Cl. 156-646.000.
Richardson, Graham, 4,633,526, Cl. 2-2.10R.
Sing, Kenneth S. W.; Gimblett, Frederick G. R.; and Freeman, John J., 4,699,896, Cl. 502-423.000.
White, Anthony M., 4,679,063, Cl. 357-30.000.
United Kingdom of Great Britain and Northern Ireland, The Secretary of State for Trade and Industry in Her Britannic Majesty's Government of the: *See*—
Parsonage, Philip G., 4,643,822, Cl. 209-8.000.
United Merchants & Manufacturers Inc.: *See*—
Porter, Rick A.; and Hoernle, Hans R., 4,690,859, Cl. 428-251.000.
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Davis, William M., 4,647,562, Cl. 514-222.000.
Davis, William M., 4,652,649, Cl. 546-196.000.
Davis, William M., 4,678,780, Cl. 514-183.000.
Davis, William M., 4,707,480, Cl. 514-228.000.

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Gregorac, Leopold, 4,704,498, Cl. 174-79.000.
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Spinosa, Joseph D.; and Spinosa, Dominic L., 4,634,420, Cl. 604-22.000.
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Kawano, Susumu; and Shimojima, Masanori, 4,674,378, Cl. 83-368.000.
Kuchi, Yoshinori, 4,703,678, Cl. 83-71.000.
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Allweier, Werner K.; and Knight, David W., 4,655,071, Cl. 72-346.000.
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Colgate, Gilbert, Jr., 4,684,795, Cl. 235-457.000.
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Hall, Iris H.; and Brotherton, Robert J., 4,672,060, Cl. 514-64.000.
Tella, Sherwood T.; Cameron, Allan L.; von Buelow, John; and Hauser, Stephen G., 4,650,095, Cl. 222-153.000.
von Buelow, John; and Hauser, Stephen G., 4,662,195, Cl. 70-139.000.
United States Brass Corporation: *See*—
Hayman, Dennis J., 4,681,140, Cl. 137-597.000.
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McMahin, Bruce L., 4,692,958, Cl. 15-230.120.
United States Data Corporation: *See*—
Kuehneman, Gary; and Leavitt, Joel, 4,688,020, Cl. 340-365.0VL.
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Jansheski, John E., 4,643,676, Cl. 433-143.000.
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Coulter, Douglas, 4,635,141, Cl. 360-44.000.
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Wallace, Daniel A., 4,651,080, Cl. 320-2.000.
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Johnson, Wilfred V., 4,706,758, Cl. 169-19.000.
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Ali, Mohammad H., 4,647,486, Cl. 428-70.000.
Hardesty, Dennis L.; Hanna, Timothy D.; Wendt, Frank J.; and White, Kendall D., Jr., 4,634,498, Cl. 162-13.000.
Jakacki, Edwin J.; Ogle, Larry G.; Landwer, Jonathan C.; and Andersen, James C., 4,661,161, Cl. 106-112.000.
Michalek, Christopher P., 4,655,950, Cl. 252-62.000.
Salvo, E. Vincent, 4,672,785, Cl. 52-241.000.
Straus, Arthur W.; Williams, Terrance L.; and Eby, Lawrence T., 4,686,253, Cl. 524-44.000.
Wendt, Alan C., 4,638,606, Cl. 52-36.000.
Wendt, Alan C., 4,704,838, Cl. 52-658.000.
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Bond, Frank, 4,650,179, Cl. 272-2.000.
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Blanco, Carlos; Asam, Adolf R.; and Smith, John C., 4,693,551, Cl. 350-96.230.
Hoffman, Arthur J., III, 4,707,069, Cl. 350-96.210.
U.S. Leisure Incorporated: *See*—
DePolo, Anthony R.; and Pascolini, Robert M., 4,652,369, Cl. 210-169.000.
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Agriculture: *See*—
Andersen, Robert N.; and Walker, Harrell L., 4,715,881, Cl. 71-79.000.
Biller, Cleveland J.; and Johnson, David D., 4,679,803, Cl. 280-6.00H.
Bistline, Raymond G., Jr.; Maurer, Elmer W.; Smith, Frank D.; and Linfield, Warner M., 4,663,353, Cl. 514-617.000.
Cardina, John; Littrell, Robert H.; and Stowell, Larry J., 4,643,756, Cl. 71-79.000.
Carlson, Steven J.; Donald, William W.; and Lepine, James J., 4,685,481, Cl. 134-155.000.
Conner, Anthony H.; River, Bryan H.; and Lorenz, Linda F., 4,686,140, Cl. 428-342.000.
Daeschel, Mark A.; McFeeters, Roger F.; Fleming, Henry P.; Klaenhammer, Todd R.; and Sanozky, Rosemary B., 4,666,849, Cl. 435-253.000.
Dymicky, Michael; Smith, James L.; and Benedivengo, Marianne, 4,677,119, Cl. 514-547.000.
Eads, Rand E.; Booloottian, Mark R.; and Hankin, Steven C., 4,660,422, Cl. 73-863.020.
Farrell, Roberta L.; Kirk, Thomas K.; and Tien, Ming, 4,687,741, Cl. 435-189.000.
Gamble, Howard R.; and Murrell, Kenneth D., 4,670,384, Cl. 435-7.000.
Gibson, Clayton H.; and Young, David A., 4,699,354, Cl. 251-61.500.
Gould, John M., 4,649,113, Cl. 435-165.000.
Harper, Robert J., Jr., 4,711,640, Cl. 8-481.000.
Jeffries, Thomas W., 4,663,284, Cl. 435-161.000.
Jochim, Michael M.; and Jones, Suzanne C., 4,678,746, Cl. 435-5.000.
Johnson, David D.; and Biller, Cleveland J., 4,637,643, Cl. 294-75.000.
Kaneshiro, Tsuneo, 4,711,656, Cl. 71-7.000.
King, A. Douglas, Jr.; and Nassos-Stalder, Patricia S., 4,707,444, Cl. 435-26.000.
Lewis, Jack A.; Papavizas, George C.; and Connick, William J., Jr., 4,668,512, Cl. 424-93.000.
Litzkow, Carl A.; Webb, J. C.; and Masuda, Shuichi, 4,671,114, Cl. 73-587.000.
McGovern, Terrence P.; Schreck, Carl E.; and Burden, George S., 4,675,342, Cl. 514-613.000.
McKelvey, Robert A., 4,642,937, Cl. 47-1.500.
Setterholm, Vance C.; and Hunt, John F., 4,702,870, Cl. 264-87.000.
Tuomi, Roger L., 4,677,806, Cl. 52-656.000.
Vigo, Tyrone L.; and Blanchard, Eugene J., 4,678,473, Cl. 8-480.000.
Waldie, Arthur H.; Gillum, Marvis N.; and Wilkes, James M., 4,649,738, Cl. 73-38.000.
Wehr, Michael A.; and Sajdak, Robert L., 4,635,830, Cl. 222-334.000.
Wehr, Michael A.; and Sajdak, Robert L., 4,690,309, Cl. 222-249.000.
Weiss, Louis C.; Thibodeaux, Devron P.; and Godshall, Mary Ann, 4,680,106, Cl. 209-1.000.
Weller, David M.; Cook, R. James; and Becker, J. Ole, 4,647,533, Cl. 435-29.000.
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Adam, John D.; and Daniel, Michael R., 4,675,682, Cl. 342-375.000.
Aldrich, James R., 4,705,639, Cl. 210-720.000.
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Altoz, Frank E., 4,635,709, Cl. 165-32.000.
Altoz, Frank E.; and Buckley, John J., 4,674,704, Cl. 244-1.00R.
Archambeault, Bruce R.; and Rancour, David P., 4,641,255, Cl. 382-68.000.
Armitage, David, 4,643,533, Cl. 350-350.00S.
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Aulds, James M.; and Becker, Roger J., 4,710,641, Cl. 250-554.000.
Battle, Stanley D., 4,635,552, Cl. 102-254.000.
Beale, Robert B., 4,648,397, Cl. 128-205.110.
Beale, Robert B., 4,658,858, Cl. 137-606.000.
Beam, Jerry E., 4,674,565, Cl. 165-104.260.
Becker, Jack W., 4,686,397, Cl. 310-36.000.
Benke, George, 4,680,797, Cl. 381-41.000.
Benken, Richard P., 4,672,570, Cl. 364-900.000.
Birnbaum, Jack; and Lampe, Donald R., 4,675,847, Cl. 365-183.000.
Birnbaum, Milton; and Tucker, Armin W., deceased, 4,669,831, Cl. 350-381.000.
Bluzer, Nathan; and Halvis, James, 4,652,339, Cl. 156-661.100.
Bowman, Gaylord L.; and DePhillipo, Frank J., 4,654,469, Cl. 174-35.00C.
Brothers, Jack, 4,702,504, Cl. 292-66.000.
Bryant, Stephen M.; and Cole, Lanier G., 4,672,380, Cl. 342-92.000.
Bryant, Stephen M.; and Speir, Donald J., 4,680,589, Cl. 342-196.000.
Buck, Erik S., 4,680,500, Cl. 313-348.000.
Burns, Daniel J.; Eldering, Charles A.; and Pronobis, Mark T., 4,698,587, Cl. 324-73.00R.
Byron, Stanley R.; Burkes, Thomas; Petr, Rodney A.; and Smilanski, Israel, 4,668,896, Cl. 315-330.000.
Carnahan, Samuel U.; and Buckingham, Arthur G., 4,654,661, Cl. 340-825.570.
Carreras, Richard A.; Cusumano, Salvatore J.; Jenks, Morton B.; and Suizu, Robert I., 4,667,090, Cl. 250-201.000.
Carreras, Richard A., 4,689,758, Cl. 364-561.000.
Chang, I-Cheng, 4,685,772, Cl. 350-372.000.
Chimenti, Dale E.; and Bar-Cohen, Yoseph, 4,674,334, Cl. 73-627.000.
Cimino, Michael B.; and Gearing, Gregory M., 4,650,733, Cl. 429-153.000.
Cimino, Michael B.; and Gearing, Gregory M., 4,700,122, Cl. 320-61.000.
Colson, William B., 4,674,091, Cl. 372-20.000.
Crane, Robert L., 4,661,369, Cl. 427-8.000.
Cricchi, James R.; and Blaha, Franklin C., 4,685,194, Cl. 437-41.000.
Cruz, Emirto T., 4,676,599, Cl. 350-252.000.
Cuevas, Jess A.; and Blackshire, Robert D., 4,706,909, Cl. 244-122.0AC.
Currier, John L., Jr., 4,651,298, Cl. 364-900.000.
Curry, Bill P.; Jones, John H.; Seiber, Brian L.; Price, Lynwood L.; Powell, Homer M.; and Kiech, Earl L., 4,679,939, Cl. 356-336.000.
Das, Mukunda B.; Norris, George B.; and Grzyb, Joseph A., 4,652,896, Cl. 357-2.000.
Davis, Steven J.; Lilenfeld, Harvey V.; Neumann, David K.; and Whitefield, Phillip D., 4,653,062, Cl. 372-89.000.
DeOms, James H.; and Simon, Albert B., 4,699,335, Cl. 244-129.300.
Devaney, Christopher M.; Martineau, Robert J.; Miles, John L.; and Wong, Theodore T. S., 4,634,493, Cl. 156-616.00R.
Eddy, Frederick N., 4,686,534, Cl. 342-165.000.
Eden, James G.; and Geohegan, David B., 4,649,059, Cl. 427-38.000.
Eustace, Robert H., 4,660,676, Cl. 181-224.000.

Evans, Joseph T., Jr.; Munechika, Stacy M.; Norris, Michael C.; Hren, Alisa M.; Heck, Kevin M.; and Zufka, Suzanne M., 4,654,586, Cl. 324-83.00D.
Evers, Robert C.; and Moore, George J., 4,657,708, Cl. 260-544.00D.
Evers, Robert C.; and Moore, George J., 4,663,425, Cl. 528-183.000.
Eylon, Daniel; and Froes, Francis H., 4,714,587, Cl. 419-29.000.
Facklam, Roger L., 4,635,766, Cl. 372-32.000.
Farinacci, Anthony L.; Witkin, Steven G.; and Yamger, Christopher J., 4,656,919, Cl. 89-14.600.
Fender, Janet S.; Cusumano, Salvatore J.; Butts, Robert R.; and DeHainaut, Christopher R., 4,639,586, Cl. 250-201.000.
Finger, Stephen N., 4,712,979, Cl. 416-96.00R.
Foster, Joseph C., Jr.; and Bilek, Andrew G., 4,711,177, Cl. 102-204.000.
Franzen, Robert L., 4,674,697, Cl. 188-282.000.
Ganguly, Biswa; Goss, Larry P.; Roquemore, William M.; and Trump, Darryl D., 4,679,934, Cl. 356-43.000.
Gassler, Richard D.; and Hahn, Dustan L., 4,665,792, Cl. 89-1.816.
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Genco, Louis V.; and Task, Harry L., 4,679,917, Cl. 351-221.000.
Gilett, Bryan L.; and Murphy, Mark A., 4,636,679, Cl. 310-328.000.
Goss, Larry P.; Grosjean, Dennis F.; Sarka, Benjamin, Jr.; Kizirnis, Sigmund W.; and Ganguly, Biswa, N., 4,655,608, Cl. 374-119.000.
Grome, Donald J., 4,700,293, Cl. 364-200.000.
Gross, Richard A., 4,687,281, Cl. 350-3.660.
Hague, Duane O.; and Barnes, James E., 4,636,858, Cl. 358-147.000.
Hailey, Samuel L.; and Alden, John W., 4,707,212, Cl. 156-361.000.
Hannan, Peter W., 4,673,943, Cl. 342-367.000.
Harrington, John J., 4,700,190, Cl. 342-2.000.
Haupt, Randy L., 4,642,645, Cl. 342-379.000.
Hemler, Paul F.; and Rohr, William A., 4,640,499, Cl. 267-160.000.
Henderson, Alan R.; and Sheppard, John P., 4,669,042, Cl. 364-181.000.
Hickernell, Frederick S.; Adamo, Michael D.; and Cho, Frederick Y. T., 4,668,909, Cl. 324-56.000.
Hirschfeld, Tomas B., 4,678,142, Cl. 244-3.160.
Hobson, David W., 4,667,504, Cl. 73-38.000.
Holt, James F., 4,714,519, Cl. 437-2.000.
Hopwood, Francis W.; Caldwell, Stephen P.; and Decker, Martin J., 4,639,688, Cl. 331-10.000.
Iden, Steven M., 4,700,099, Cl. 310-306.000.
Iseler, Gerald W.; and Ahern, Brian S., 4,662,860, Cl. 464-162.000.
Ito, Paul H., 4,654,582, Cl. 324-73.00R.
Jennings, Thomas J.; Tripp, Lloyd D., Jr.; Howell, Lora L.; and Loukoumidis, Dimitrios G., 4,674,479, Cl. 128-1.00A.
Jensen, Norman E.; and Kelley, Bennett W., 4,667,600, Cl. 102-254.000.
Jones, David I. G., 4,637,259, Cl. 73-794.000.
Jones, Edward J., 4,682,176, Cl. 342-175.000.
Jones, Edward J., 4,704,872, Cl. 62-3.000.
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Jones, Franklin B.; Milberger, Walter E.; and Kerfoot, Charles S., 4,683,387, Cl. 307-571.000.
Jones, Franklin B.; Kerfoot, Charles S.; and Milberger, Walter E., 4,686,448, Cl. 323-212.000.
Jones, Franklin B.; Milberger, Walter E.; Bulgher, David E.; and Kerfoot, Charles S., 4,698,742, Cl. 363-124.000.
Jones, Steven P.; and Tilles, David J., 4,644,633, Cl. 29-566.300.
Jones, Steven P., 4,699,414, Cl. 294-119.100.
Kessel, Philip A., 4,662,216, Cl. 73-116.000.
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Kitchens, Judith F.; Culp, Carl H., Sr.; Hyde, Raymond G.; and Brownlee, Shirley G., 4,701,125, Cl. 432-1.000.
Koshoffer, John M.; Pfefferle, Richard A.; and Larson, Harold A., 4,686,826, Cl. 60-261.000.
Kuck, John H., 4,691,305, Cl. 367-3.000.
Kuperman, Gilbert G., 4,653,909, Cl. 356-124.500.
Kuperman, Gilbert G., 4,658,246, Cl. 340-723.000.
Landram, Mark O., 4,649,085, Cl. 428-620.000.
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Levy, Robert S.; and Kerr, Thomas W., 4,702,438, Cl. 244-104.0FP.
Lindley, Patricia M.; Reinhardt, Bruce A.; and Arnold, Fred E., 4,683,340, Cl. 568-331.000.
Lorenzo, Joseph P.; and Soref, Richard A., 4,693,546, Cl. 350-96.130.
Ludwick, George E., 4,668,165, Cl. 415-148.000.
Lynch, Charles T.; Vahldiek, Fred W.; and Khobaib, Mohammad, 4,714,564, Cl. 252-110.000.
MacGee, Andrew, 4,712,370, Cl. 60-39.070.
MacGovern, Alan J., 4,635,299, Cl. 455-606.000.
Mahadevan, Parameswar; Chang, Elfredo T.; and Bresache, Peter, 4,657,639, Cl. 202-182.000.
Mahefkey, Edward T., 4,706,740, Cl. 165-104.140.
Manasevit, Harold M., 4,661,176, Cl. 148-175.000.
Mantovani, John C.; Denny, Hugh W.; and Warren, Walter F., 4,648,124, Cl. 455-67.000.
Masak, Raymond J., 4,641,141, Cl. 342-379.000.
Masson, James H., 4,673,826, Cl. 307-66.000.
Matostan, Kenneth R.; Sterrit, Lanny W.; Stubbs, David M.; and Lemons, Thomas M., 4,668,869, Cl. 250-504.00R.
May, Roger A., 4,679,086, Cl. 358-167.000.
McLevige, William V., 4,712,291, Cl. 437-27.000.
Milberger, Walter E.; Cohen, Joel R.; and Dubrowsky, Leonard, 4,682,126, Cl. 333-81.00B.
Minarik, Ronald W.; Harris, Frederick H.; and Gipprich, John W., 4,654,608, Cl. 332-44.000.
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Morris, Robert K., 4,687,880, Cl. 136-246.000.
Movick, Wayne K., 4,671,117, Cl. 73-756.000.
Nash, Dudley O., 4,637,550, Cl. 239-265.370.
Oberly, Charles E.; Giegel, Harold L.; and Ho, James C., 4,711,825, Cl. 428-614.000.
Oloff, Clarence M.; Hermann, Linda M.; Moss, William G.; and Sims, Steven R., 4,653,509, Cl. 128-749.000.
Oloff, Clarence M.; Hermann, Linda M.; Moss, William G.; and Sims, Steven R., 4,686,997, Cl. 128-653.000.
Ott, William E., 4,644,193, Cl. 307-490.000.
Patton, Gail Y.; and Torgerson, Darrel D., 4,674,011, Cl. 362-32.000.
Pech, Gregory J., 4,668,916, Cl. 324-456.000.
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Pourier, J. Leon; and Yaghjian, Arthur D., 4,704,614, Cl. 343-703.000.
Pourier, J. Leon; and McGahan, Robert V., 4,713,667, Cl. 342-192.000.
Quiros, Jaime J.; and Pennett, John G., 4,659,941, Cl. 307-11.000.
Rand, Stephen C., 4,647,330, Cl. 156-621.000.
Randig, George W., 4,683,474, Cl. 342-368.000.
Rodriguez, Edward, 4,674,710, Cl. 244-76.00R.
Rushing, Frank C.; and Weixel, Mark, 4,715,557, Cl. 242-129.00.
Salour, Michael M.; and Fehrenbach, Gustav W., 4,639,075, Cl. 350-96.160.
Sawyer, Thomas F., 4,712,604, Cl. 164-513.000.
Schaaf, Gregory; and Biresak, Garin S., 4,644,357, Cl. 342-168.000.
Schack, Carl J.; and Christe, Karl O., 4,675,088, Cl. 204-157.90.
Schneider, Josef F., 4,678,999, Cl. 324-427.000.
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Soref, Richard A., 4,671,604, Cl. 350-96.150.
Soref, Richard A., 4,671,605, Cl. 350-96.150.
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Starke, Roy R., 4,683,613, Cl. 16-262.000.
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Stemmayer, Alwin G., Jr.; and Williams, Ralph O., 4,651,114, Cl. 332-9.00R.
Stevenson, Theodore E., 4,646,094, Cl. 342-155.000.
Stewart, Harold S.; Hansen, Donald F.; and Turner, Vernon D., 4,687,337, Cl. 356-437.000.
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Tervo, John N., 4,644,811, Cl. 74-412.0TA.
Travlos, Constantine M., 4,715,549, Cl. 242-25.70R.
Tsai, Tsu-Tzu; and Arnold, Fred E., 4,709,006, Cl. 528-208.00.
Tsui, James B. Y.; and Davis, Robert L., 4,644,267, Cl. 324-77.00K.
Unroe, Marilyn R.; Reinhardt, Bruce A.; and Arnold, Fred E., 4,667,002, Cl. 526-259.000.
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Wirick, Michael P., 4,634,854, Cl. 250-216.000.
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Worsham, Richard H.; and Clark, John R., 4,647,759, Cl. 235-411.000.
Yamano, Larry C., 4,644,356, Cl. 342-160.000.
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Abramovitz, Irwin J.; Berg, Norman J.; and Casseday, Michael W., 4,637,688, Cl. 350-358.000.
Adlam, Arthur H.; Wittbrodt, Donald R.; Scully, Andrew J.; Smith, Roger R.; Tuteja, Balbir S.; Currier, Theodore R.; George, Rita M.; Yopp, Roger W.; and Hussaini, Syed M., 4,671,162, Cl. 89-1.130.
Allan, Barry D., 4,664,730, Cl. 149-36.000.
Ames, Alan J., 4,716,507, Cl. 362-311.000.
Artz, Glen D.; and Grant, Louis R., 4,673,528, Cl. 252-188.250.
Ashley, Paul R., 4,693,561, Cl. 350-336.000.
Ballato, Arthur, 4,634,914, Cl. 310-313.00D.
Ballato, Arthur, 4,636,678, Cl. 310-313.00R.
Barley, Thomas A.; Hodgens, Tony D.; and Rast, Gustaf J., Jr., 4,673,940, Cl. 342-192.000.
Behl, Wishvender K.; and Chin, Der-Tau, 4,696,103, Cl. 29-825.000.
Bentley, James H., 4,665,257, Cl. 585-469.000.
Bernazzani, Richard J.; and Bumbaca, Domenic J., 4,689,886, Cl. 30-416.000.
Betts, Robert E.; Melvin, William S.; and Thorn, Lawrence B., 4,649,702, Cl. 60-253.000.
Betts, Robert E.; and Arszman, Jerrold H., 4,672,881, Cl. 89-1.816.
Betts, Robert E., 4,672,897, Cl. 102-513.000.
Bishop, Daniel E., 4,709,484, Cl. 33-169.00R.
Bovino, Lawrence J., 4,691,111, Cl. 250-551.000.
Branovich, Louis E.; Freeman, Gerard L.; and Smith, Bernard, 4,708,681, Cl. 445-50.000.
Campagnuolo, Carl J.; and Benderly, Asaf A., 4,701,835, Cl. 362-192.000.
Campbell, Donn V.; Dubowicz, Palemon W.; and Hoverter, Robert T., 4,700,196, Cl. 343-797.000.
Cavallaro, Paul V., 4,679,959, Cl. 403-143.000.
Chantry, Pete J.; Denes, Louis J.; and Kline, Lawrence E., 4,670,883, Cl. 372-57.000.
Chenausky, Peter P.; and Green, William J., Jr., 4,655,588, Cl. 356-5.000.
Chiang, Peter K.; Richard, Michelle M.; Padilla, Felipe N.; Carroll, Frank I.; and Abraham, Philip, 4,713,391, Cl. 514-412.000.
Christopulos, John A., 4,678,728, Cl. 429-121.000.
Christopulos, John A., 4,681,821, Cl. 429-121.000.
Crawford, John F., 4,653,400, Cl. 102-202.000.
D'Agostino, John A.; and Lillie, Thomas J., 4,634,293, Cl. 374-124.000.
Dame, John B.; Williams, Jackie L.; McCutchan, Thomas F.; and Schneider, Imogene, 4,707,357, Cl. 424-88.000.
Deutermann, Alan R.; and Bodson, Charles D., 4,703,362, Cl. 358-263.000.
Dinan, John H., 4,689,650, Cl. 357-30.000.
Dixon, Samuel, Jr.; AuCoin, Thomas R.; and Malik, Roger J., 4,654,609, Cl. 333-17.00L.
Dumas, Neil S., 4,656,654, Cl. 379-96.000.
Dunaway, J. C.; and Jacobs, Paul L., 4,686,824, Cl. 60-231.000.
Dunn, Aubrey J., 4,646,580, Cl. 74-44.000.
Dunn, Aubrey J., 4,699,472, Cl. 350-377.000.
Dyer, Frederick N.; and Schjelderup, John R., 4,653,760, Cl. 273-310.000.
Edlin, George R.; and Snead, Robert A., 4,634,969, Cl. 324-95.000.
Ettel, Frederick G., 4,715,694, Cl. 250-486.000.
Everett, Seth L., 4,667,098, Cl. 250-231.0SE.
F'Geppert, Erwin, 4,655,619, Cl. 384-567.000.
F'Geppert, Erwin, 4,679,459, Cl. 74-460.000.
Fischer, Paul, 4,634,929, Cl. 315-5.390.
Fournier, William R., 4,635,448, Cl. 62-467.000.
Fox, Clifton S.; Nettleton, John E.; and Barr, Dallas N., 4,689,798, Cl. 372-82.000.
Freiling, Albert J., 4,674,406, Cl. 102-216.000.
Fukuda, Robert C.; and Chandra, Suresh, 4,709,368, Cl. 372-10.000.
Getgel, Maria A.; and Marynowski, Chester W., 4,663,473, Cl. 560-336.000.
Gerharz, Reinhold, 4,679,936, Cl. 356-128.000.
Gerharz, Reinhold, 4,682,179, Cl. 343-755.000.
Gilbert, Everett E., 4,711,679, Cl. 149-96.000.
Gregory, Don A.; and Guenther, Bob D., 4,715,683, Cl. 350-331.00R.
Grinwald, Israel M., 4,693,164, Cl. 89-1.130.
Gurney, John O., Jr., 4,689,827, Cl. 455-614.000.
Gutierrez, William A.; and Wilson, Herbert L., 4,644,221, Cl. 313-373.000.
Gutleber, Frank S., 4,638,318, Cl. 342-383.000.
Hacskaylo, Michael, 4,646,120, Cl. 357-30.000.
Hacskaylo, Michael, 4,686,761, Cl. 437-5.000.
Hartmann, Rudolf, 4,649,274, Cl. 250-341.000.
Helmke, Richard W., 4,635,311, Cl. 14-2.400.
Holder, Donald W.; and Phillips, William R., 4,637,571, Cl. 244-3.160.
Holder, James D., 4,695,120, Cl. 350-96.110.
Honeycutt, Thomas E.; and Roberts, Thomas G., 4,647,204, Cl. 356-350.000.
Honeycutt, Thomas E.; and Roberts, Thomas G., 4,658,109, Cl. 219-121.0LC.
Honeycutt, Thomas E.; and Roberts, Thomas G., 4,677,398, Cl. 332-7.510.
Horn, Robert E.; and Jacobs, Harold, deceased, 4,636,751, Cl. 331-96.000.
Horn, Robert E.; Jacobs, Harold, deceased; and Schwering, Felix, 4,644,363, Cl. 343-785.000.
Hunter, Benjamin A.; and Gilbert, Everett E., 4,661,179, Cl. 149-124.0.0.
Iafrate, Gerald J.; Malik, Roger J.; and Au Coin, Thomas, 4,667,211, Cl. 357-4.000.
Jeffers, A. Eugene, 4,699,061, Cl. 102-370.000.
Jones, Michael M.; Miller, Walter E., Jr.; and Mitchell, Robert R., 4,696,441, Cl. 244-3.130.
Koblin, Abraham, 4,708,869, Cl. 424-81.000.
Kornfeld, Gertrude H., 4,668,866, Cl. 250-330.000.
Kramer, David N.; and Oeltmann, Thomas N., 4,676,880, Cl. 204-157.910.
Kuhn, Donald H., 4,642,651, Cl. 343-754.000.
Lescoe, Paul J.; and Scheffler, Charles E., 4,693,320, Cl. 169-61.000.
Leupold, Herbert A., 4,647,887, Cl. 335-211.000.
Leupold, Herbert A., 4,654,618, Cl. 335-304.000.
Leupold, Herbert A., 4,658,228, Cl. 335-211.000.
Leupold, Herbert A.; Potenziani, Ernest, II; and Clarke, John, 4,692,732, Cl. 335-302.000.
Leupold, Herbert A., 4,701,737, Cl. 335-301.000.
Mariani, Elio A.; and Skudera, William J., Jr., 4,639,695, Cl. 333-133.000.
Mary, Donald J., 4,695,892, Cl. 358-225.000.
Matherly, Joseph E.; Filecchia, Robert J.; and Benson, Leslie J., 4,646,970, Cl. 239-111.000.
McDaniel, Steven G., 4,694,728, Cl. 89-1.110.
McIngvale, Pat H., 4,638,737, Cl. 102-489.000.
Melvin, William S.; Betts, Robert E.; and Thorn, Lawrence B., 4,642,983, Cl. 60-219.000.
Miller, Robert E.; and Reid, Willis A., Jr., 4,659,738, Cl. 514-514.000.
Miller, Walter E., Jr.; and Mitchell, Robert R., 4,657,208, Cl. 244-3.220.
Mon, George, 4,644,781, Cl. 73-55.000.
Mon, George, 4,678,009, Cl. 137-818.000.
Mon, George, 4,691,187, Cl. 338-114.000.
Mongeon, Robert J.; Wayne, Robert J.; and Henschke, Robert W., 4,716,444, Cl. 356-05.000.
Morrison, Clyde A.; Karayianis, Nick; and Wortman, Donald E., 4,670,637, Cl. 219-121.00L.
Neubauer, John C.; and Rusche, Gerald A., 4,677,469, Cl. 358-93.000.
Otto, William F.; Roberts, Thomas G.; Jenkins, Andrew H.; and Honeycutt, Thomas E., 4,645,448, Cl. 431-1.000.
Otto, William F.; Jenkins, Andrews H.; Roberts, Thomas G.; and Honeycutt, Thomas E., 4,649,955, Cl. 137-624.130.
Paddock, Albert W., 4,681,387, Cl. 439-347.000.
Palazzolo, Faro D.; Drake, Brian L.; and Swanson, Ralph R., 4,683,801, Cl. 89-40.120.
Peck, Carl C., 4,706,676, Cl. 128-632.000.
Perry, John S., 4,706,912, Cl. 244-158.00A.
Pistor, Helmut H., 4,639,603, Cl. 250-504.00R.
Pistor, Helmut H., 4,687,886, Cl. 200-6.00B.
Quamen, Ronny A., 4,715,563, Cl. 244-152.000.
Raspet, Richard; and Wagner, Mark D., 4,712,429, Cl. 73-646.000.
Rearick, Thomas C., 4,679,164, Cl. 364-728.000.
Richardson, Robert O., 4,646,806, Cl. 157-1.170.
Richter, Mark A., 4,692,367, Cl. 428-116.000.
Riley, Leon H., 4,635,158, Cl. 361-111.000.
Riley, Leon H., 4,635,159, Cl. 361-111.000.
Riley, Leon H., 4,635,160, Cl. 361-111.000.
Rittenbach, Otto E., 4,647,874, Cl. 331-11.000.
Rittenbach, Otto E., 4,649,393, Cl. 342-371.000.
Roberts, Thomas G.; and Honeycutt, Thomas E., 4,639,642, Cl. 315-39.000.
Roberts, Thomas G.; and Honeycutt, Thomas E., 4,673,250, Cl. 350-320.000.
Roberts, Thomas G.; Conrad, Raymond W.; Otto, William F.; and Honeycutt, Thomas E., 4,692,623, Cl. 250-349.000.

Roberts, Thomas G.; Conrad, Raymond W.; and Honeycutt, Thomas E., 4,707,133, Cl. 356-320.000.
Ruffin, Paul B.; Anderson, J. Gregory; and Hunter, Joe S., 4,655,410, Cl. 242-158.00R.
Rusche, Gerald A.; and Forsch, Henry A., 4,687,967, Cl. 313-477.00R.
Saffold, James A.; Green, Augustus H., Jr.; and Passmore, Ronald C., 4,636,797, Cl. 343-725.000.
Saffold, James A.; Green, Augustus H., Jr.; and Passmore, Ronald C., 4,652,885, Cl. 343-725.000.
Sayles, David C., 4,638,739, Cl. 102-520.000.
Sayles, David C., 4,655,858, Cl. 149-19.920.
Sayles, David C., 4,655,859, Cl. 149-19.200.
Sayles, David C., 4,655,860, Cl. 149-19.920.
Sayles, David C., 4,698,106, Cl. 149-7.000.
Sayles, David C., 4,707,199, Cl. 149-19.200.
Sayles, David C., 4,708,754, Cl. 149-11.000.
Schmidt, Jimmy Q., 4,649,796, Cl. 89-6.500.
Schmitz, John P., 4,637,931, Cl. 424-78.000.
Scovill, John P.; Klayman, Daniel L.; and Franchino, Charles F., 4,657,903, Cl. 514-185.000.
Scully, Andrew J., 4,715,754, Cl. 410-107.000.
Shurtz, Richard R., II; and Sharp, Edward J., 4,712,881, Cl. 350-406.000.
Skudera, William J., Jr.; and Konig, Charles E., 4,647,863, Cl. 329-112.000.
Sluss, Elmer C.; Nettleton, John E.; and Barr, Dallas N., 4,710,941, Cl. 372-87.000.
Sommer, Harold Z.; and Wicks, George E., Jr., 4,672,069, Cl. 514-346.000.
Sommer, Harold Z.; and Wicks, George E., Jr., 4,672,119, Cl. 546-133.000.
Sommer, Harold Z.; Wicks, George E., Jr.; and Witten, Benjamin, 4,672,120, Cl. 546-261.000.
Sommer, Harold Z.; and Wicks, George E., Jr., 4,672,122, Cl. 546-292.000.
Sommer, Harold Z.; and Wicks, George E., Jr., 4,672,123, Cl. 546-292.000.
Sommer, Harold Z.; and Wicks, George E., Jr., 4,672,124, Cl. 546-292.000.
Sommer, Harold Z.; Owens, Omer O.; and Miller, Jacob I., 4,673,745, Cl. 546-147.000.
Sommer, Harold Z.; and Miller, Jacob I., 4,675,411, Cl. 546-292.000.
Sommer, Harold Z.; Krenzer, John; Owens, Omer O.; and Miller, Jacob I., 4,677,204, Cl. 546-261.000.
Sommer, Harold Z.; and Wicks, George E., Jr., 4,677,205, Cl. 546-292.000.
Sommer, Harold Z.; Wicks, George E., Jr.; and Owens, Omer O., 4,677,222, Cl. 560-133.000.
Sommer, Harold Z.; and Owens, Omer O., 4,686,293, Cl. 546-261.000.
Sommer, Harold Z., 4,692,530, Cl. 546-261.000.
Spielvogel, Bernard F.; McPhail, Andrew T.; and Hall, Iris H., 4,647,555, Cl. 514-63.000.
Spielvogel, Bernard F., 4,709,083, Cl. 560-110.000.
Stanley, Ann E., 4,681,640, Cl. 148-1.500.
Stanley, Edward T., 4,655,514, Cl. 305-56.000.
Staples, Edward J., 4,654,118, Cl. 156-643.000.
Stern, Richard A.; and Babbitt, Richard W., 4,691,208, Cl. 343-785.000.
Strickland, Brian R.; and Edlin, George R., 4,647,849, Cl. 324-95.000.
Strickland, Brian R.; and Edlin, George R., 4,673,870, Cl. 324-74.000.
Tasdemiroglu, Server, 4,664,967, Cl. 428-220.000.
Thornwall, Joseph C., 4,675,477, Cl. 380-21.000.
Vanderwall, Jonathan, 4,643,545, Cl. 350-618.000.
van de Sande, Brett D., 4,668,924, Cl. 331-86.000.
Verona, Robert W., 4,647,783, Cl. 250-495.100.
Vig, John R., 4,638,536, Cl. 29-25.350.
Walker, Clifford G.; and Tanton, George A., 4,637,726, Cl. 356-367.000.
Wedel, John O., Jr., 4,667,298, Cl. 364-602.000.
Werbel, Leslie M.; and Steck, Edgar A., 4,659,708, Cl. 514-222.000.
Wilson, Herbert L.; and Gutterrez, William A., 4,699,084, Cl. 118-725.000.
Wittbrodt, Donald R., 4,683,797, Cl. 89-1.130.
Zangrando, Roy A., 4,647,089, Cl. 292-144.000.
Zollinger, Wendell D.; Boslego, John; Moran, Ellen; Brandt, Brenda; Collins, Hugh; Mandrell, Robert; Altieri, Patricia; and Berman, Sanford, 4,707,543, Cl. 530-402.000.

Commerce: *See*—
Blessing, Gerald V.; and Flynn, Daniel R., 4,672,851, Cl. 73-597.000.
Grimes, John W., II; Jennings, Hamlin; and Brown, Paul W., 4,705,949, Cl. 250-440.100.
Hogg, David C., 4,647,933, Cl. 342-26.000.
Huang, Peter H., 4,681,855, Cl. 436-39.000.
Lau, Kam C.; and Hocken, Robert J., 4,714,339, Cl. 356-4.500.
McDonald, Donald G., 4,638,257, Cl. 330-61.00R.
Peris, James P., 4,699,551, Cl. 409-218.000.
Slocum, Alexander H.; and Peris, James P., 4,685,661, Cl. 269-20.000.
Slocum, Alexander H.; and Peris, James P., 4,694,230, Cl. 318-568.000.
Spinelli, John; Stout, Virginia F.; and Nilsson, William B., 4,692,280, Cl. 260-420.000.
Stephenson, John R.; Groffen, John; and Hensterkamp, Nora, 4,681,840, Cl. 435-6.000.
Stout, Virginia F.; and Spinelli, John, 4,675,132, Cl. 260-412.000.
Vranish, John M.; Bunch, Wayne R.; and Johns, William L., 4,707,013, Cl. 294-119.100.

Energy: *See*—
Anderson, Herbert L.; Kinnison, W. Wayne; and Lillberg, John W., 4,686,368, Cl. 250-374.000.
Arehart, Theodore A.; and Carey, Donald O., 4,643,056, Cl. 82-36.00A.
Arnold, Charles, Jr.; and Assink, Roger, 4,714,663, Cl. 429-101.000.
Ashby, Carol I. H.; and Dishman, James L., 4,648,936, Cl. 156-643.000.
Ashby, Carol I. H.; and Dishman, James L., 4,648,938, Cl. 156-643.000.
Atcher, Robert W.; Friedman, Arnold M.; and Hines, John, 4,663,129, Cl. 423-2.000.
Aubert, James H.; Clough, Roger L.; Curro, John G.; Quintana, Carlos A.; Russick, Edward M.; and Shaw, Montgomery T., 4,673,695, Cl. 521-64.000.
Barclay, John A.; and Prenger, F. Coyne, Jr., 4,642,994, Cl. 62-3.000.
Barclay, John A.; Stewart, Walter F.; Henke, Michael D.; and Kalash, Kenneth E., 4,704,871, Cl. 62-3.000.
Becher, Paul F.; and Tiegs, Terry N., 4,657,877, Cl. 501-89.000.
Benson, David A.; and Kuswa, Glenn W., 4,700,629, Cl. 102-201.000.
Benson, David K.; and Tracy, C. Edwin, 4,650,919, Cl. 136-212.000.
Benson, David K.; and Tracy, C. Edwin, 4,683,154, Cl. 428-34.000.
Benson, David K.; and Burrows, Richard W., 4,702,451, Cl. 252-70.000.
Bergman, Werner, 4,687,579, Cl. 210-347.000.
Betts, William S., Jr.; Pickering, J. Larry; and Black, William E., 4,673,548, Cl. 376-362.000.
Bickes, Robert W., Jr.; and Schwarz, Alfred C., 4,708,080, Cl. 102-202.700.
Birx, Daniel L.; and Reginato, Louis L., 4,646,027, Cl. 328-233.000.
Blackburn, Robert S., 4,687,165, Cl. 248-274.000.
Blander, Milton; and Cook, Glenn M., 4,687,564, Cl. 204-243.00R.
Blaushild, Ronald M., 4,714,228, Cl. 248-608.000.
Bollinger, Lawrence R., 4,643,868, Cl. 376-262.000.
Bolstad, Jon O., 4,649,426, Cl. 358-101.000.
Botts, Thomas E.; and Powell, James R., 4,643,859, Cl. 204-155.000.
Bramblett, Richard L.; and Preskitt, Charles A., 4,647,420, Cl. 376-159.000.
Brinker, C. Jeffrey; Keefer, Keith D.; and Lenahan, Patrick M., 4,652,467, Cl. 427-246.000.
Brooks, Robert A.; Dosch, Robert G.; and Tuttle, Brace A., 4,681,717, Cl. 264-61.000.
Brookshier, William, 4,634,986, Cl. 328-145.000.
Brudnoy, David M., 4,637,717, Cl. 356-28.500.
Bunch, Wilbur L.; and Schenter, Robert E., 4,637,729, Cl. 376-251.000.
Burelbach, James P.; Kann, William J.; Pan, Yen-Cheng; Saveau, James G.; and Seidensticker, Ralph W., 4,645,635, Cl. 376-254.000.
Butler, Barry L., 4,643,168, Cl. 126-449.000.
Butler, Michael A.; and Ginley, David S., 4,641,037, Cl. 250-390.000.
Caneba, Gerard T. M.; and Soong, David S., 4,659,470, Cl. 210-500.210.
Cawthorne, Duane C., 4,682,238, Cl. 358-228.000.
Chaffin, Roger J.; and Osbourn, Gordon C., 4,688,065, Cl. 357-30.000.
Chance, Morrell S.; Jardin, Stephen C.; Stix, Thomas H.; Grimm, Ray C., deceased; Manickam, Janardhan; and Okabayashi, Michio, 4,654,184, Cl. 376-133.000.
Chen, Peter J., 4,714,848, Cl. 310-359.000.
Christiansen, David W.; Karnesky, Richard A.; Precechtel, Donald R.; Smith, Bob G.; and Knight, Ronald C., 4,654,198, Cl. 376-443.000.
Christiansen, David W.; and Karnesky, Richard A., 4,710,345, Cl. 376-414.000.
Ciszek, Theodore F., 4,650,541, Cl. 156-620.000.
Ciszek, Theodore F., 4,652,332, Cl. 156-607.000.
Claytor, Thomas N.; Ockert, Carl E.; and Randall, Richard, 4,696,191, Cl. 73-600.000.
Cline, Carl F.; and Fulton, Fred J., 4,704,250, Cl. 419-15.000.
Coffield, Frederick E., 4,641,087, Cl. 324-83.00R.
Cook, Lee M.; and Stokowski, Stanley E., 4,661,284, Cl. 252-301.40P.
Cutburth, Ronald W., 4,640,591, Cl. 350-632.000.
Cutburth, Ronald W.; and House, F. Allen, 4,667,922, Cl. 248-664.000.
Cutburth, Ronald W.; and Smauley, David A., 4,703,921, Cl. 269-47.000.

Darling, Dale H., 4,693,938, Cl. 428-403.000.
Delmore, James E., 4,649,279, Cl. 250-427.000.
Derenzo, Stephen E., 4,672,207, Cl. 250-363.00S.
DeVolpi, Alexander, 4,649,015, Cl. 376-258.000.
Doss, James D.; and McCabe, Charles W., 4,651,734, Cl. 128-303.140.
Doss, James D., 4,679,561, Cl. 128-422.000.
Eimerl, David, 4,697,100, Cl. 307-427.000.
Eliason, Jay R.; and Eliason, Valerie L. C., 4,698,759, Cl. 364-420.000.
Farnwald, Paul M., 4,639,887, Cl. 364-748.000.
Fasching, George E.; and Goff, David R., 4,667,097, Cl. 250-231.00P.
Fasching, George E., 4,680,585, Cl. 340-870.130.
Fast, Ronald W., 4,660,599, Cl. 137-512.200.
Filippi, Arthur M.; and Sprecace, Richard P., 4,700,863, Cl. 220-67.000.
Finch, Hilvan A., 4,687,990, Cl. 324-158.0MG.
Fish, Richard H., 4,659,684, Cl. 502-25.000.
FitzPatrick, John R.; Dunn, Jerry G.; and Avens, Larry R., 4,710,222, Cl. 75-84.10R.
Forsberg, Charles W., 4,666,654, Cl. 376-219.000.
Fox, Richard J., 4,697,084, Cl. 250-376.000.
Fraioli, Anthony V.; and Schertz, William W., 4,645,519, Cl. 55-208.000.
Frank, Arthur J., 4,650,558, Cl. 204-242.000.
Fraser, John S.; and Shetfield, Richard L., 4,715,038, Cl. 372-2.000.
Frederickson, James R., 4,637,900, Cl. 252-643.000.
Furth, Harold P.; Janos, Alan C.; Uyama, Tadao; and Yamada, Masaaki, 4,713,208, Cl. 376-137.000.
Galkowski, Joseph J., 4,697,270, Cl. 372-34.000.
Gay, Don D.; and McMillan, William G., 4,677,863, Cl. 73-863.120.
Ghate, Madhav R.; and Yang, Ralph T., 4,696,680, Cl. 55-25.000.
Gluekler, Emil L.; Hunsbedt, Anstein; and Lazarus, Jonathan D., 4,650,642, Cl. 376-280.000.
Goers, George F., 4,705,252, Cl. 248-178.000.
Goulding, Frederick S.; and Landis, Donald A., 4,658,216, Cl. 328-109.000.
Granata, Samuel J., Jr.; and Woodle, Boyd M., 4,684,582, Cl. 429-39.000.
Green, Lanny A.; and Heck, Joaquim L., Jr., 4,641,329, Cl. 376-79.000.
Greenbaum, Elias, 4,657,646, Cl. 204-157.500.
Gritto, Russell E., 4,686,526, Cl. 340-825.060.
Gruen, Dieter M.; Young, Charles E.; and Pellin, Michael J., 4,686,979, Cl. 128-303.100.
Gruen, Dieter M., 4,698,198, Cl. 376-146.000.
Guilford, Richard P.; and Rosborough, John R., 4,716,364, Cl. 324-127.000.
Gutschick, Vincent P.; Barron, Michael H.; Waechter, David A.; and Wolf, Michael A., 4,678,330, Cl. 356-222.000.
Haas, Paul A.; Fowler, Victor L.; and Lloyd, Milton H., 4,663,093, Cl. 264-0.500.
Haas, Roger A.; and Henestan, Mark A., 4,649,544, Cl. 372-22.000.
Hagelstein, Peter L., 4,660,203, Cl. 372-5.000.
Hankins, Dale E., 4,648,950, Cl. 204-129.400.
Harvey, Alexander, 4,712,074, Cl. 328-233.000.
Hawke, Basil C., 4,647,423, Cl. 376-264.000.
Hawke, Ronald S., 4,706,542, Cl. 89-8.000.
Herceg, Joseph E., 4,666,798, Cl. 429-12.000.
Hershcovitch, Ady, 4,654,183, Cl. 376-130.000.
Hino, Toshiyuki; and Gorski, Anthony J., 4,686,853, Cl. 62-68.000.
Hirschfeld, Tomas B., 4,674,320, Cl. 73-23.000.
Hoffert, William J., 4,707,668, Cl. 330-56.000.
Holland, James R.; and Del Vecchio, Robert M., 4,634,567, Cl. 376-152.000.
Honig, Emanuel M., 4,642,476, Cl. 307-108.000.
Hsu, George C.; and Rohatgi, Naresh K., 4,664,984, Cl. 427-87.000.
Hull, John R.; Lari, Robert J.; Praeg, Walter F.; and Turner, Larry R., 4,678,024, Cl. 164-503.000.
Humpal, Harold H., 4,705,369, Cl. 350-636.000.
Hunsbedt, Anstein; and Lazarus, Jonathan D., 4,643,870, Cl. 376-280.000.
Hutter, Ernest; Pardini, John A.; and Walker, David E., 4,654,192, Cl. 376-336.000.
Iorna, William F., 4,704,557, Cl. 313-623.000.
Jackovitz, John F.; and Kunkle, Richard P., 4,639,401, Cl. 429-30.000.
James, Alan C.; Jardin, Stephen C.; and Yamada, Masaaki, 4,687,617, Cl. 376-137.000.
Johnson, Peter D., 4,705,987, Cl. 313-634.000.
Johnson, Roger N., 4,649,086, Cl. 428-627.000.
Johnson, Steve A.; and Shannon, Robert R., 4,673,290, Cl. 356-73.100.
Jones, Rollin G.; Kortegaard, Bert L.; and Jones, David F., 4,689,541, Cl. 318-696.000.
Jorgensen, Betty S., 4,650,328, Cl. 356-244.000.
Kapich, Davorin D., 4,641,978, Cl. 384-102.000.
Karnowsky, Maurice M.; and Yost, Frederick G., 4,652,710, Cl. 200-235.000.
Kast, Steven J., 4,714,585, Cl. 376-442.000.
Kaun, Thomas D.; and Smaga, John A., 4,687,717, Cl. 429-152.000.
Kaun, Thomas D.; and Smith, James L., 4,714,661, Cl. 429-14.000.
Kelly, Michael D.; and Kramer, Daniel P., 4,705,585, Cl. 156-89.000.
Kerns, John A.; Stone, Roger R.; and Fabyan, Joseph, 4,698,197, Cl. 376-142.000.
King, Wayne E., 4,697,080, Cl. 250-307.000.
Kirchner, Tommy L.; and Powers, Harshal G., 4,637,718, Cl. 356-71.000.
Kirkham, Randy R., 4,634,856, Cl. 250-227.000.
Knapp, Furn F., Jr.; Butler, Thomas A.; and Brihaye, Claude, 4,683,123, Cl. 423-2.000.
Kolbe, William F.; and Leskovar, Branko, 4,703,273, Cl. 324-314.000.
Kuchnir, Moyses; and Mills, Frederick E., 4,687,987, Cl. 324-71.300.
Kugel, Henry W.; and Ulrickson, Michael, 4,650,632, Cl. 376-143.000.
Kuswa, Glenn W.; and Leeper, Ramon J., 4,675,145, Cl. 376-108.000.
Lagace, Paul R., 4,633,590, Cl. 33-148.00R.
Landingham, Richard L.; and Shell, Thomas E., 4,703,884, Cl. 228-122.000.
Landingham, Richard L.; and Shell, Thomas E., 4,704,338, Cl. 428-627.000.
Larson, Loren L., 4,674,343, Cl. 73-864.350.
Lee, David O.; Montoya, Paul C.; and Wayland, James R., Jr., 4,641,099, Cl. 324-323.000.
Lee, David O.; Montoya, Paul C.; Muir, James F.; and Wayland, J. Robert, Jr., 4,658,208, Cl. 324-61.00R.
Lee, Gary E.; and Zogg, Gordon J., 4,704,248, Cl. 376-427.000.
Lewandowski, Edward F.; Cassidy, Dale A.; and Sommer, Robert G., 4,639,571, Cl. 219-121.0EC.
Little, William E.; and McLendon, Thomas R., 4,705,116, Cl. 166-248.000.
Liu, Chain T., 4,647,427, Cl. 420-435.000.
Liu, Kenneth C., 4,686,860, Cl. 73-856.000.
Longrigg, Paul, 4,651,017, Cl. 290-44.000.
Mao, Nai-Hsien, 4,641,520, Cl. 73-151.000.
Meek, Thomas T.; and Blake, Rodger D., 4,695,695, Cl. 219-10.55M.
Mirzadeh, Saed; and Lambrecht, Richard M., 4,664,869, Cl. 376-195.000.
Mirzadeh, Saed; and Lambrecht, Richard M., 4,681,727, Cl. 376-198.000.
Moeller, Charles P., 4,687,616, Cl. 376-123.000.
Moeller, Charles P., 4,704,589, Cl. 333-113.000.
Moore, Francis W., 4,635,111, Cl. 358-106.000.
Moschead, Arthur J., 4,698,271, Cl. 428-621.000.
Morris, Christopher L.; Idzorek, George C.; and Atencio, Leroy G., 4,654,531, Cl. 250-385.000.
Murphy, Lawrence M., 4,691,075, Cl. 136-246.000.
Muscatello, Anthony C.; Navratil, James D.; and Saba, Mark T., 4,683,124, Cl. 423-6.000.
Needlinger, Hermann H.; Schissel, Paul O.; and Orth, Richard A., 4,659,590, Cl. 427-244.000.
Nelson, Paul A.; Bloom, Ira D.; and Roche, Michael F., 4,659,637, Cl. 429-104.000.
Nelson, Robert E.; Ziegler, Anton A.; Serino, David F.; and Basnar, Paul J., 4,666,676, Cl. 422-159.000.
Niemann, Ralph C.; Gonczy, John D.; and Nicol, Thomas H., 4,696,169, Cl. 62-514.00R.
Nodd, Dennis G.; and Walker, Richard J., 4,644,878, Cl. 110-264.000.
Noufi, Rommel; and Chen, Yih-Wen, 4,642,140, Cl. 148-6.240.
Nozik, Arthur J., 4,634,641, Cl. 429-111.000.
Nuckolls, John H.; and Thiessen, Albert R., 4,687,618, Cl. 376-152.000.
Oakley, David J.; and Bogart, Rex L., 4,662,510, Cl. 198-519.000.
Ohkawa, Tihiro, 4,710,339, Cl. 376-123.000.
Olson, Craig L., 4,656,430, Cl. 328-229.000.
Olson, Jerry M., 4,667,059, Cl. 136-249.000.
Ostenak, Carl A.; and Mackay, Harold A., 4,684,217, Cl. 350-319.000.
Osterwald, Carl R.; and Emery, Keith A., 4,712,063, Cl. 324-158.0D.
Owens, Thomas L.; Batty, Frederick W.; Hoffman, Daniel J.; and Whealton, John H., 4,694,264, Cl. 333-34.000.
Parkinson, William J., 4,706,581, Cl. 110-349.000.
Pearson, Richard K.; Bystroff, Roman I.; and Miller, Dale E., 4,701,379, Cl. 428-427.000.
Perkins, Francis W., Jr.; Chiu, Shiu-Chu; Parks, Paul; and Rawls, John M., 4,661,304, Cl. 376-123.000.
Petit, George S., 4,704,261, Cl. 423-258.000.
Poeppel, Roger B.; Greenberg, Sherman; and Diercks, Dwight R., 4,705,563, Cl. 75-95.000.
Potter, Jerry D., 4,645,639, Cl. 376-260.000.
Rabideau, Sherman W.; and Campbell, George M., 4,670,219, Cl. 423-251.000.
Ramsey, Roswitha S.; and Todd, Richard A., 4,705,947, Cl. 250-386.000.
Ramsey, Roswitha S.; and Todd, Richard A., 4,705,948, Cl. 250-386.000.

Rao, V. Udaya S.; and Gormley, Robert J., 4,659,743, Cl. 518-715.000.
Rathke, Jerome W.; Klingler, Robert J.; and Heiberger, John J., 4,656,152, Cl. 502-170.000.
Raymond, Kenneth N.; Scarrow, Robert C.; and White, David L., 4,698,431, Cl. 546-298.000.
Reedy, Robert P., 4,705,349, Cl. 350-96.150.
Regan, Thomas O., 4,706,497, Cl. 73-295.000.
Rehak, Pavel; and Gatti, Emilio, 4,638,067, Cl. 357-29.000.
Reimann, Allan; and Boozer, Allen H., 4,663,109, Cl. 376-142.000.
Reiman, Allan; and Boozer, Allen, 4,668,464, Cl. 376-133.000.
Reiser, Carl A.; and Miricle, Donald L., 4,659,635, Cl. 429-41.000.
Richards, Powell; Mausner, Leonard F.; and Prach, Thomas F., 4,707,322, Cl. 376-194.000.
Robinson, C. Paul; Rockwood, Stephen D.; Jensen, Reed J.; Lyman, John L.; and Adridge, Jack P., III, 4,655,890, Cl. 204-157.220.
Robinson, C. Paul; Jensen, Reed J.; Cotter, Theodore P.; Greiner, Norman R.; and Boyer, Keith, 4,661,221, Cl. 204-157.220.
Rosecrans, Peter M., 4,647,317, Cl. 148-11.50F.
Sales, Brian C.; and Boatner, Lynn A., 4,699,889, Cl. 501-22.000.
Saller, Henry A., deceased; Hodge, Edwin S.; Paprocki, Stanley J.; and Dayton, Russell W., 4,709,348, Cl. 228-159.000.
Saunders, George C., 4,665,020, Cl. 435-7.000.
Sawicki, Richard H.; and Sweatt, William, 4,647,164, Cl. 350-611.000.
Sawicki, Richard H.; and Sweatt, William, 4,664,488, Cl. 350-611.000.
Scott, Charles D., 4,683,042, Cl. 204-180.100.
Shalek, Peter D., 4,702,901, Cl. 423-346.000.
Sharbaugh, John E., 4,681,731, Cl. 376-285.000.
Siekhaus, Wigbert, 4,667,101, Cl. 250-307.000.
Sievers, Robert K.; Cooper, Martin H.; and Tupper, Robert B., 4,698,200, Cl. 376-233.000.
Singh, Jitendra P.; James, Jawana J.; and Picciolo, John J., 4,647,547, Cl. 501-103.000.
Skogmo, Phillip J.; and Tucker, Tillman J., 4,680,434, Cl. 200-61.080.
Smith, James L., 4,643,954, Cl. 429-26.000.
Smith, James L.; and Zwick, Stanley A., 4,643,955, Cl. 429-34.000.
Spadaro, Peter R.; Smith, Jay E.; Speer, Elmer L.; and Cecconi, Arnold L., 4,695,299, Cl. 55-274.000.
Stetter, Joseph R.; Zaromb, Solomon; and Penrose, William R., 4,670,405, Cl. 436-151.000.
Sugama, Toshifumi; Kukacka, Lawrence E.; and Carciello, Neal R., 4,659,395, Cl. 148-6.15Z.
Sundaram, Muthu S.; and Steinberg, Meyer, 4,687,570, Cl. 208-431.000.
Sutton, Harry G., Jr., 4,675,146, Cl. 376-250.000.
Swansen, James E., 4,642,466, Cl. 250-392.000.
Swansiger, William A., 4,657,747, Cl. 423-249.000.
Swarr, Thomas E.; Nickols, Richard C.; and Krasij, Myron, 4,652,411, Cl. 264-43.000.
Swarr, Thomas E.; and Vnuck, Wayne G., 4,714,586, Cl. 419-2.000.
Tallman, Clifford S., 4,663,511, Cl. 219-121.0EC.
Taylor, Jack R., 4,698,963, Cl. 60-39.060.
Thoe, Robert S., 4,637,052, Cl. 382-1.000.
Tiegs, Terry N., 4,652,413, Cl. 264-66.000.
Tracy, C. Edwin; Benson, David K.; and Ruth, Marta R., 4,645,308, Cl. 350-357.000.
Tracy, C. Edwin; Benson, David K.; and Ruth, Marta R., 4,687,560, Cl. 204-164.000.
Tuckerman, David B., 4,674,176, Cl. 29-591.000.
Tuckerman, David B., 4,681,795, Cl. 428-209.000.
Tullis, Andrew M., 4,697,088, Cl. 250-374.000.
Vanderborgh, Nicholas E.; Springer, Thomas E.; and Huff, James R., 4,650,727, Cl. 429-19.000.
Varma, Ravi, 4,687,598, Cl. 252-518.000.
Villarreal, Richard A., 4,636,846, Cl. 358-100.000.
Vo-Dinh, Tuan, 4,674,878, Cl. 356-301.000.
Wanek, Philip M.; Steinkruger, Frederick J.; and Moody, David C., 4,664,892, Cl. 423-2.000.
Wang, Ching L., 4,667,107, Cl. 250-390.000.
Wang, Jin S.; Lakin, Kenneth M.; and Landin, Allen R., 4,640,756, Cl. 204-192.110.
Waniuss, Mark, 4,649,859, Cl. 118-715.000.
Warzinski, Robert P., 4,675,101, Cl. 208-311.000.
Warzinski, Robert P.; and Ruether, John A., 4,695,372, Cl. 208-311.000.
Weintraub, Alvin; and MacCormack, Robert S., 4,693,947, Cl. 429-51.000.
Wilcox, Russell B., 4,667,161, Cl. 328-65.000.
Williams, Jack M.; Wang, Hsien-Hau; and Beno, Mark A., 4,675,415, Cl. 549-3.000.
Williams, Ray E., 4,674,774, Cl. 285-184.000.
Williams, Timothy J.; El-Sharkawi, Mohamed A.; and Venkata, Subrahmanyam S., 4,677,364, Cl. 322-47.000.
Wolf, Michael A.; and Crowell, John M., 4,658,222, Cl. 331-78.000.
Yudkow, Bernard D., 4,708,651, Cl. 126-451.000.

Environmental Protection Agency: *See*—

Rogers, Charles J.; and Kornel, Alfred, 4,675,464, Cl. 585-538.000.

Health and Human Services: *See*—

Allegra, Carmen; Drake, James C.; Chabner, Bruce A.; Masur, Henry; and Kovacs, Joseph A., 4,694,007, Cl. 514-260.000.
Arko, Robert J., 4,687,001, Cl. 128-767.000.
Brossi, Arnold, 4,692,463, Cl. 514-463.000.
Driscoll, John S.; Khan, A. Hameed; and Chou, Feng-Te, 4,704,384, Cl. 514-183.000.
Gallo, Robert C.; and Popovic, Mikulas, 4,647,773, Cl. 435-239.000.
Gallo, Robert C.; and Popovic, Mikulas, 4,652,599, Cl. 435-239.000.
Harris, Gerald R.; and DeReggi, Aime S., 4,653,036, Cl. 367-170.000.
Haugwitz, Rudiger D.; Narayanan, Venkatachala L.; Zalkow, Leon H.; Deutsch, Howard M.; and Gelbaum, Leslie, 4,670,461, Cl. 514-410.000.
Hess, Richard A.; and Tschudy, Donald P., 4,670,467, Cl. 514-557.000.
Ito, Yoichiro, 4,714,554, Cl. 210-635.000.
Iwata, Kenneth K.; Fryling, Charlotte M.; and Todaro, George J., 4,708,948, Cl. 514-2.000.
Jacobson, Kenneth A.; Daly, John W.; and Kirk, Kenneth L., 4,696,932, Cl. 514-263.000.
James, Stephanie L.; and Sher, Alan, 4,656,033, Cl. 424-88.000.
Lyddy, James E., Jr.; Penland, William Z.; and Sugarbaker, Paul H., 4,690,131, Cl. 128-4.000.
Major, Eugene O., 4,707,448, Cl. 435-240.250.
McCutchan, Thomas F.; and Wistar, Richard, Jr., 4,693,994, Cl. 514-15.000.
McCutchan, Thomas F.; and Dame, John B., 4,707,445, Cl. 435-91.000.
McCutchen, Charles W., 4,677,678, Cl. 381-72.000.
Merril, Carl R., 4,703,016, Cl. 436-86.000.
Minton, Allen P.; Attri, Arun K.; and Sullivan, James V., 4,693,984, Cl. 436-180.000.
Misra, Renuka, 4,673,678, Cl. 514-278.000.
Mitsuya, Hiroaki; and Broder, Samuel, 4,704,357, Cl. 435-32.000.
Mizuuchi, Kiyoshi; Mizuuchi, Michiyo; and Adachi, Toshio, 4,716,105, Cl. 435-5.000.
Montagnier, Luc; Chermann, Jean-Claude; Barre-Sinoussi, Francoise; Brun-Vezinet, Francoise; Rouzioux, Christine; Rozenbaum, Willy; Dauguet, Charles; Gruest, Jacqueline; Nugeyre, Marie-Therese; Rey, Francoise; Axler-Blin, Claudine; Chamaret, Solange; Gallo, Robert C.; Popovic, Mikulas; and Sarngadharan, Mangalasseril G., 4,708,818, Cl. 435-5.000.
Nelson, David; Biddison, William; Rubin, Laurence; Greene, Warner; Leonard, Warren; and Yarchoan, Robert, 4,707,443, Cl. 435-7.000.
Pitha, Josef, 4,649,040, Cl. 424-10.000.
Podolsky, Richard J.; Baker, Gordon R.; and Bretner, Bernhard, 4,693,606, Cl. 356-355.000.
Pollard, Harvey B.; Ornberg, Richard; Banerjee, Dipak; Youdin, Moussa; Leikes, Peter; and Heldman, Eli, 4,670,394, Cl. 435-240.000.
Rosenberg, Steven A., 4,690,915, Cl. 514-2.000.
Segal, David M.; and Perez, Pilar, 4,676,980, Cl. 424-85.000.
Seto, Belinda; and Gerety, Robert J., 4,673,634, Cl. 435-5.000.
Seto, Belinda P.; Coleman, William G., Jr.; and Gerety, Robert J., 4,707,439, Cl. 435-5.000.
Vishnuvajjala, Babu R., 4,658,047, Cl. 556-137.000.
Wyatt, Richard G.; Kapikian, Albert Z.; Chanock, Robert M.; Midthun, Karen; Flores, Jorge; and Hoshino, Yasutaka, 4,704,275, Cl. 424-89.000.

Health & Human Services: *See*—

Daemer, Richard J.; Feinstone, Stephen M.; Gust, Ian D.; and Purcell, Robert H., 4,636,469, Cl. 435-237.000.

Interior: *See*—

Ackman, Terry E.; and Place, John M., 4,695,378, Cl. 210-198.100.
Finfinger, Gerald L.; King, Roger L.; and Marshall, Thomas E., 4,679,435, Cl. 73-594.000.
Goldberg, Marvin C.; Cunningham, Kirkwood M.; and Weiner, Eugene R., 4,696,571, Cl. 356-336.000.
Krawza, Walter G.; Savanick, George A.; and Connors, Steven W., 4,708,214, Cl. 175-424.000.
Murphy, James E.; and Chambers, Michael F., 4,707,239, Cl. 204-247.000.
Riley, William D.; and Brown, Robert D., Jr., 4,692,875, Cl. 364-497.000.
Rubin, Jacob; Hammermeister, Dale P.; and Nimmo, John R., 4,679,422, Cl. 73-38.000.
Savanick, George A.; Krawza, Walter G.; and Connors, Steven W., 4,663,893, Cl. 51-439.000.
Seeley, Robert L.; Barth, Joseph J.; and Clayton, Gerald H., II, 4,701,712, Cl. 324-340.000.
Steblay, Bernard J., 4,686,443, Cl. 320-23.000.
Thorpe, Arthur N.; Senftle, Frank E.; and Alexander, Corinne C., 4,661,118, Cl. 44-1.05R.

International Trade & Industry: *See*—

Arai, Tatsuo, 4,661,032, Cl. 414-5.000.

National Aeronautics and Space Administration: *See*—

Achar, Bappalige N.; Fohlen, George M.; and Parker, John A., 4,649,189, Cl. 528-220.000.
Acres, William R., 4,682,745, Cl. 244-161.000.

Augason, Gordon C., 4,684,424, Cl. 156-163.000.
Babcock, Stephen G.; Dyer, Gerald E.; and Gordon, Stephen S., 4,698,484, Cl. 219-130.010.
Barber, Patrick G.; and Simpson, Norman R., 4,696,808, Cl. 423-338.000.
Batts, Colossie N., 4,652,833, Cl. 328-147.000.
Belew, Robert R., 4,657,044, Cl. 137-606.000.
Belew, Robert R., 4,674,533, Cl. 137-595.000.
Bell, Vernon L.; and Havens, Stephen J., 4,661,558, Cl. 525-36.000.
Bell, Vernon L., 4,711,932, Cl. 525-397.000.
Bement, Laurence J.; and Bailey, James W., 4,708,280, Cl. 228-107.000.
Bhatt, Ramakrishna T., 4,689,188, Cl. 264-60.000.
Blair, Winford, 4,703,159, Cl. 219-78.120.
Blume, Hans-Juergen C., 4,645,358, Cl. 374-9.000.
Bryan, Charles F., Jr., 4,698,723, Cl. 361-218.000.
Bush, Harold G.; Mikulas, Martin M., Jr.; Wallsom, Richard E.; and Jensen, J. Kermit, 4,685,535, Cl. 182-63.000.
Cantreli, John H., Jr.; and Yost, William T., 4,649,750, Cl. 73-599.000.
Caro, Edward R.; and Bonazza, Walter J., 4,698,028, Cl. 439-271.000.
Cheng, Li-Jen, 4,711,857, Cl. 437-3.000.
Chutjian, Ara; and Orient, Otto J., 4,649,273, Cl. 250-251.000.
Chutjian, Ara, Orient, Otto J.; and Aladzhadzhyan, Samuel H., 4,649,278, Cl. 250-423.00R.
Cohen, Marc M., 4,637,181, Cl. 52-126.500.
Crossley, Edward A., Jr.; Haynes, David P.; Jones, Howard C.; and Jones, Irby W., 4,672,202, Cl. 250-238.000.
Cunningham, William C., 4,666,086, Cl. 239-433.000.
Daniels, Julia G.; Ledbetter, Frank E., III; Clemons, Johnny M.; Penn, Benjamin G.; and White, William T., 4,680,897, Cl. 51-281.00R.
Davarian, Faramaz, 4,675,880, Cl. 375-39.000.
Dennis, Dale V., 4,663,627, Cl. 340-975.000.
Dries, Gregory A.; and Tompkins, Stephen S., 4,662,955, Cl. 148-125.000.
DuFresne, Eugene R., 4,666,561, Cl. 203-90.000.
Ebihara, Ben T.; and Forman, Ralph, 4,687,964, Cl. 313-237.000.
Edelstein, Fred, 4,664,177, Cl. 165-1.000.
Edelstein, Fred; and Brown, Richard F., 4,687,048, Cl. 165-1.000.
Egli, Annmarie O.; and St. Clair, Terry L., 4,695,610, Cl. 525-426.000.
Ehl, James H., 4,708,330, Cl. 269-43.000.
Finkel, Mitchell W., 4,647,144, Cl. 350-6.500.
Frank, Arthur M.; DeRespinis, Silvio F.; and Mockovciak, John, Jr., 4,637,447, Cl. 160-265.000.
French, James R., 4,699,754, Cl. 376-299.000.
Gallagher, Brian D., 4,650,108, Cl. 228-124.000.
Garner, H. Douglas, 4,687,444, Cl. 434-114.000.
Gennery, Donald B., 4,703,513, Cl. 382-27.000.
Goldowsky, Michael P., 4,675,563, Cl. 310-15.000.
Gordon, Stephen S., 4,682,006, Cl. 219-124.340.
Goss, Willis C.; Youmans, Bruce R.; Nerheim, Noble M.; and Bartman, Randall K., 4,662,751, Cl. 356-350.000.
Goss, Willis C.; and Janesick, James R., 4,669,882, Cl. 356-350.000.
Graham, Olin L., 4,682,225, Cl. 358-133.000.
Gunter, William D., Jr.; Donaldson, Ralph W.; and Anderson, Alma G., Jr., 4,697,922, Cl. 356-28.500.
Harf, Fredric H., 4,676,846, Cl. 148-162.000.
Harrison, Ernest, Jr., 4,703,769, Cl. 135-67.000.
Harwell, William D.; and Gardner, Dale A., 4,664,344, Cl. 244-161.000.
Haslim, Leonard A.; and Lee, Robert D., 4,690,353, Cl. 244-134.00D.
Hergenrother, Paul M.; and Havens, Stephen J., 4,638,083, Cl. 560-104.000.
Hergenrother, Paul M.; Bass, Robert G.; Sinsky, Mark S.; and Connell, John W., 4,663,483, Cl. 564-396.000.
Hess, Robert W.; Davis, William T.; and Davis, Pamela A., 4,698,997, Cl. 73-4.00R.
Hodo, James D.; Moore, Dennis R.; Morris, Thomas F.; and Tiller, Newton G., 4,676,110, Cl. 73-809.000.
Jackson, L. Robert; Davis, Randall C.; and Taylor, Allan H., 4,650,385, Cl. 411-166.000.
Jamieson, Robert S., 4,665,334, Cl. 310-306.003.
Jhabvala, Murzban D.; Dargo, David R.; and Lyons, John C., 4,709,252, Cl. 357-30.000.
Jones, Jack A., 4,641,499, Cl. 62-48.000.
Jones, Jack A., 4,697,425, Cl. 62-48.000.
Kaukler, William F., 4,711,697, Cl. 156-621.000.
Kelley, Henry L.; and Wilson, John C., 4,708,305, Cl. 244-17.190.
Killgrove, Thomas O., 4,703,967, Cl. 294-82.240.
Kleinberg, Leonard L., 4,644,306, Cl. 333-214.000.
Kleinberg, Leonard L., 4,660,000, Cl. 331-56.000.
Kleinberg, Leonard L., 4,689,621, Cl. 340-870.170.
Kumar, Devendra; Fohlen, George M.; and Parker, John A., 4,634,759, Cl. 528-321.000.
Kumar, Devendra; Fohlen, George M.; and Parker, John A., 4,668,589, Cl. 428-417.000.
Lahmeyer, Charles R., 4,649,541, Cl. 371-37.000.
Laudenslager, James B.; and Pacala, Thomas J., 4,677,636, Cl. 372-68.000.
Laue, Eric G., 4,662,220, Cl. 73-336.500.
Lerma, Guillermo, 4,676,853, Cl. 156-87.000.
Lesh, James R., 4,677,629, Cl. 372-18.000.
Llewellin, William R., 4,635,773, Cl. 192-46.000.
Lucy, Melvin H., 4,669,354, Cl. 89-1.140.
Matsumoto, Yutaka; Mina, Cesar; Russell, Philip B.; and van Ark, William B., 4,710,618, Cl. 250-203.00R.
Mikroyannidis, John A.; and Kourtides, Demetrius A., 4,670,565, Cl. 548-413.000.
Mikroyannidis, John A.; and Kourtides, Demetrius A., 4,675,379, Cl. 528-413.000.
Mikroyannidis, John A.; and Kourtides, Demetrius A., 4,689,421, Cl. 558-145.000.
Mikulas, Martin M., Jr.; Rhodes, Marvin D.; and Simonton, J. Wayne, 4,677,803, Cl. 52-646.000.
Morrison, Andrew D., 4,654,110, Cl. 156-607.000.
Myers, William N.; Hein, Leopold A., deceased; and Hein, Birgit G., executor, 4,655,482, Cl. 285-81.000.
Nakanishi, Shigeo; Calco, Frank S.; and Scarpelli, August R., 4,642,523, Cl. 315-111.810.
Naumann, Robert J.; and Ethridge, Edwin C., 4,654,065, Cl. 65-2.000.
Nola, Frank J., 4,644,234, Cl. 318-254.000.
Nola, Frank J., 4,649,287, Cl. 307-31.000.
Owen, Robert B.; and Johnston, Mary H., 4,681,437, Cl. 356-129.000.
Owens, Lester J.; and Fedor, Otto H., 4,646,860, Cl. 180-19.200.
Pacala, Thomas J., 4,698,518, Cl. 307-106.000.
Packard, Douglas T.; and Schmitt, Donald E., 4,692,674, Cl. 318-254.000.
Parker, John A.; Heimbuch, Alvin H.; Hsu, Ming-Ta S.; and Chen, Timothy S., 4,647,615, Cl. 524-548.000.
Peyran, Richard J.; Laub, Georgene H.; and Morse, H. Andrew, 4,669,958, Cl. 416-114.000.
Pfiffner, Harold J., 4,682,343, Cl. 375-59.000.
Pickett, Herbert M.; and Farhoomand, Jam, 4,682,053, Cl. 307-425.000.
Reed, Wilmer H., 4,682,494, Cl. 73-147.000.
Rhodes, Marvin D., 4,684,156, Cl. 285-27.000.
Riccitiello, Salvatore R.; Hsu, Ming-Ta S.; and Chen, Timothy S., 4,676,962, Cl. 423-284.000.
Riccitiello, Salvatore R.; Smith, Marnell; Goldstein, Howard E.; and Zimmerman, Norman B., 4,713,275, Cl. 428-76.000.
Richardson, John R.; and Kerr, Joseph H., 4,669,836, Cl. 351-206.000.
Robertson, James B., 4,689,522, Cl. 313-506.000.
Robinson, Michael B.; and Lacy, Lewis L., 4,677,642, Cl. 373-10.000.
Rollins, Fred P.; and Glass, James S., 4,635,663, Cl. 134-93.000.
Sah, Chih$_t$; and Cheng, Li-Jen, 4,665,277, Cl. 136-255.000.
St. Clair, Terry L.; Maudgal, Shubha; and Pratt, J. Richard, 4,713,439, Cl. 528-353.000.
Salik, Joshua; and Hubbell, Theodore E., 4,704,168, Cl. 148-16.600.
Seegmiller, Henry L. B., 4,648,267, Cl. 73-147.000.
Sovey, James S.; Banks, Bruce A.; and Mirtich, Michael J., 4,664,980, Cl. 428-421.000.
Stewart, Eric C., 4,648,569, Cl. 244-76.00R.
Studer, Philip A., 4,634,191, Cl. 310-90.500.
Taylor, Allan H., 4,683,809, Cl. 92-208.000.
Trajmar, Sandor, 4,704,197, Cl. 204-157.220.
Unnam, Jalaiah; and Clark, Ronald K., 4,681,818, Cl. 428-607.000.
Vaicaitis, Rimas, 4,644,794, Cl. 73-583.000.
Vilnrotter, Victor A., 4,648,133, Cl. 455-608.000.
von Roos, Oldwig, 4,661,770, Cl. 324-158.00D.
Vykukal, Hubert C., 4,678,438, Cl. 434-34.000.
Walsh, Michael J.; Anders, John B.; and Hefner, Jerry N., 4,706,910, Cl. 244-130.000.
Webster, Christopher R., 4,684,258, Cl. 356-409.000.
Wichorek, Gregory R., 4,706,387, Cl. 33-147.00D.
Woeller, Fritz H.; and Matsumoto, Yutaka, 4,681,142, Cl. 137-614.180.
Wolf, Martin F., 4,655,604, Cl. 366-219.000.
Wood, Richard M., 4,688,422, Cl. 73-147.000.
Zoutendyk, John A.; and Malone, Carl J., 4,675,601, Cl. 324-158.00R.

National Security Agency: *See*—
Douglass, Harold E., Jr.; and Mahaffee, Joseph W., III, 4,709,652, Cl. 116-140.000.

Navy: *See*—
Akhufi, Monti F., 4,707,217, Cl. 156-617.00R.
Albares, Donald J.; and Reedy, Ronald E., 4,696,536, Cl. 350-96.190.
Anderson, Vernon A.; Hinman, Daryl E.; and Bumgardner, Jon H., 4,661,987, Cl. 382-41.000.
Aprigliano, Louis F., 4,639,399, Cl. 428-623.000.
Archer, Ronald D.; Hardiman, Christopher J.; Grybos, Ryszard; and Chien, James C. W., 4,693,957, Cl. 430-269.000.
Arnone, Robert A.; and Holyer, Ronald J., 4,661,907, Cl. 364-420.000.
Austin, Theodore D.; and Consaga, John P., 4,638,316, Cl. 342-14.000.
Banura, George A.; and Noland, Richard L., 4,634,962, Cl. 324-57.00N.
Barger, William R.; Jarvis, Neldon L.; Snow, Arthur W.; and Wohltjen, Henry, 4,636,767, Cl. 338-34.000.

Barnett, Larry R.; and Baird, J. Mark, 4,668,894, Cl. 315-4.000.
Barrett, Terence W.; and Giuliani, John F., 4,650,329, Cl. 356-345.000.
Bates, Albert M.; Sandford, Wayne H., Jr.; and Junod, Michael T., 4,660,182, Cl. 367-3.000.
Bauer, Barry J.; Chiang, Chwan-Kang; and Davis, George T., 4,654,279, Cl. 429-192.000.
Bennett, Derek J.; and Anderson, Gene, 4,656,616, Cl. 367-153.000.
Bidell, Frederick W.; Kluever, Harold C.; and Reed, Roger R., 4,636,583, Cl. 178-22.170.
Blackburn, Douglas; Feldman, Albert; and Lagakos, Nicholas, 4,709,987, Cl. 350-96.340.
Bobb, Lloyd C., 4,644,273, Cl. 324-244.000.
Boblitt, Wayne W., 4,710,076, Cl. 409-26.000.
Bocker, Richard P.; and Miceli, William J., 4,692,885, Cl. 364-606.000.
Breglia, Denis R., 4,702,575, Cl. 351-210.000.
Brininstool, Michael R., 4,685,799, Cl. 356-73.100.
Brown, Bruce J., 4,651,332, Cl. 377-20.000.
Buecher, Roger W., 4,658,745, Cl. 114-54.000.
Bullat, David M., 4,706,550, Cl. 92-260.000.
Bulmer, Catherine H.; and Burns, William K., 4,674,829, Cl. 350-96.140.
Burns, William K.; and Milton, A. Fenner, 4,678,267, Cl. 350-96.150.
Byram, George W., 4,661,980, Cl. 380-46.000.
Callahan, Patrick O., Jr., 4,642,638, Cl. 342-45.000.
Campana, Joseph E., 4,713,542, Cl. 250-251.000.
Chamberland, Roger R.; and Stanland, Andrew J., 4,690,482, Cl. 439-578.000.
Chang, Eddie L., 4,652,257, Cl. 604-52.000.
Clawson, Arthur R., 4,671,847, Cl. 156-635.000.
Clendenning, Donald C., 4,659,035, Cl. 244-3.210.
Collins, David A.; and Lile, Derek L., 4,662,063, Cl. 29-584.000.
Covino, Josephine; and McManis, George E., 4,637,864, Cl. 204-61.000.
Cowen, Steven J., 4,682,846, Cl. 350-96.180.
Craig, W. Dale, 4,634,458, Cl. 55-316.000.
Crane, Roger M.; and Macander, Aleksander B., 4,695,344, Cl. 156-242.000.
Crosbie, Richard J.; Colombo, Joseph; and Grant, J. Wallace, 4,667,678, Cl. 128-663.000.
Curtis, Donald D., 4,693,764, Cl. 149-19.400.
Davis, Sydney; and Malakhoff, Alexander, 4,657,101, Cl. 180-127.000.
DeFusco, Albert A.; and Martin, Eugene C., 4,675,414, Cl. 548-521.000.
Denton, Medona B.; and Tilden, Scott B., 4,688,942, Cl. 356-432.000.
Eakin, David M., 4,671,718, Cl. 411-345.000.
Finkelman, Fred D., 4,689,400, Cl. 530-389.000.
Fletcher, Aaron N.; and Kauffman, Joel M., 4,663,074, Cl. 252-301.170.
Folb, Reece; and Gay, Shelton M., Jr., 4,655,155, Cl. 114-243.000.
Frigo, Nicholas J.; Dandridge, Anthony; and Tveten, Alan B., 4,653,915, Cl. 356-345.000.
Gegan, Michael J., 4,692,769, Cl. 343-700.0MS.
Giallorenzi, Thomas G., 4,648,083, Cl. 367-149.000.
Giuliani, John F., 4,708,941, Cl. 436-141.000.
Gold, David, deceased; and Gold, Sara, executrix, 4,693,436, Cl. 244-149.000.
Gold, Steven H.; and Freund, Henry P., 4,644,548, Cl. 372-2.000.
Goldberg, Lew; Taylor, Henry F.; and Weller, Joseph F., 4,686,485, Cl. 330-4.300.
Goldstein, David, 4,657,222, Cl. 428-552.000.
Goldstein, David, 4,702,884, Cl. 419-8.000.
Goodman, Jerome, 4,648,275, Cl. 73-589.000.
Goodman, Jerome, 4,669,573, Cl. 181-286.000.
Gover, Avraham; and Read, Michael E., 4,661,783, Cl. 331-82.000.
Gowing, Scott, 4,635,487, Cl. 73-864.620.
Greenhalgh, Samuel, 4,667,898, Cl. 244-46.000.
Guay, Roland H., 4,649,824, Cl. 102-307.000.
Gubbay, Jacob D.; and Hall, Edward J., 4,659,548, Cl. 419-10.000.
Guill, Frederick C., 4,650,137, Cl. 244-121.000.
Henriquez, Theodore A., 4,674,595, Cl. 181-286.000.
Hillebrecht, Henry A., 4,643,072, Cl. 89-1.810.
Hilton, Richard D.; and Coate, Godfrey T., 4,698,635, Cl. 342-64.000.
Hinton, George F., 4,639,675, Cl. 324-334.000.
Hintz, Kenneth J., 4,635,182, Cl. 364-138.000.
Hintz, Robert T.; and Nichols, Roy L., 4,638,508, Cl. 455-617.000.
Hoover, Dale H.; and Poole, Lynn A., 4,653,034, Cl. 367-131.000.
Huang, Shih L.; Scotese, Arthur; Libeskind, Mark; and Gause, Lee W., 4,636,638, Cl. 250-231.00R.
Huntley, William P., 4,694,299, Cl. 342-170.000.
Inouye, Alan T.; Wilson, Jeffrey V.; and Baker, Mark L., 4,653,331, Cl. 73-800.000.
Jablonski, Daniel G.; and Krall, Albert D., 4,665,660, Cl. 51-281.00R.
Jeffrey, Edward N.; and Shen, Chi-Cheong, 4,686,449, Cl. 323-231.000.
Johnson, Leopold J., 4,693,119, Cl. 73-579.000.
Kelley, Anthony D.; Finley, James W.; Eachus, Vernon F., Jr.; Richard A.; and Yano, Miles K., 4,702,439, Cl. 244-158.00A.
Kemka, Rudy F., 4,634,201, Cl. 339-30.000.
Kenney-Wallace, Geraldine A.; and Quitevis, Edward L., 4,658,218, Cl. 330-4.300.
Kershaw, Joseph E., 4,691,209, Cl. 343-846.000.
Koper, Kenneth T.; Willard, Sylvester L.; and Abramowski, Larry A., 4,695,520, Cl. 429-116.000.
Kordich, Michael M.; and Shea, John W., 4,648,461, Cl. 169-60.000.
Kretschmer, Frank F., 4,698,827, Cl. 375-86.000.
Layden, George K.; and Prewo, Karl M., 4,664,731, Cl. 156-89.000.
Leek, Bobby J.; and Self, Henry L., 4,656,851, Cl. 70-277.00.
Leibowitz, Lawrence M., 4,660,164, Cl. 364-728.000.
Leverance, Robert A.; and Longas, Socrates A., 4,639,902, Cl. 367-93.000.
Lewis, Bernard L., 4,661,819, Cl. 342-201.000.
Lewis, Bernard L., 4,689,628, Cl. 342-384.000.
Lewis, Thomas L.; and Stiles, Edward H., 4,699,082, Cl. 102-378.000.
Lin, Tung Y., 4,642,000, Cl. 405-221.000.
Lubarsky, Fred; and Lee, Daeyong, 4,662,486, Cl. 72-148.00.
Lundwall, Neal M.; and Herigstad, Donald, 4,706,568, Cl. 102-513.000.
Lusk, Kenneth P., 4,648,321, Cl. 102-293.000.
McCord, Marion; Arriola, Arturo; and Cowen, Steven J., 4,644,399, Cl. 358-142.000.
McGlone, John T.; and McGibboney, Ralph T., 4,655,660, Cl. 411-366.000.
McManis, George E., III; Miles, Melvin B.; and Fletcher, Aaron N., 4,654,278, Cl. 429-112.000.
Metcalf, Travis W., 4,634,870, Cl. 250-332.000.
Milton, Ronald E., 4,638,173, Cl. 290-52.000.
Mitchell, Donald E., 4,641,254, Cl. 364-580.000.
Mitchell, Gregory N.; and Wilson, Ronald A., 4,637,570, Cl. 244-1.0TD.
Mitchell, Ronald B.; and Du Vall, Frederick W., 4,666,084, Cl. 239-265.430.
Moeller, Robert P.; and Burns, William K., 4,653,917, Cl. 356-350.000.
Morey, William W.; and Snitzer, Elias, 4,711,524, Cl. 350-96.29.
Nelson, George L., 4,663,486, Cl. 568-353.000.
Nelson, George L., 4,668,828, Cl. 568-353.000.
Nelson, Robert L., 4,662,580, Cl. 244-3.100.
Neubert, Vernon H.; and Perrone, Nicholas, 4,711,424, Cl. 248-636.000.
Newsom, Steven S.; and McCarthy, James M., 4,680,584, Cl. 340-850.000.
Novinson, Thomas, 4,661,160, Cl. 106-104.000.
Nyberg, Glen A.; and Buhrman, Robert A., 4,654,231, Cl. 427-255.300.
Offe, Darrell L.; and Martin, R. Gregory, 4,711,066, Cl. 60-253.000.
Oliver, Jim; and Watson, Pat, 4,641,755, Cl. 211-60.100.
Olsen, Richard G., 4,685,462, Cl. 128-422.000.
Opfer, Gerald D., 4,708,278, Cl. 228-20.000.
Palatucci, Gerald J.; Nowicki, Chester M.; and Heal, Gordon B., 4,658,359, Cl. 364-424.000.
Papanicolaou, Nicolas A., 4,640,003, Cl. 29-57e.00B.
Paradis, John B., IV, 4,658,926, Cl. 180-126.000.
Pehrson, West F.; and Baczuk, Robert J., 4,654,103, Cl. 156-276.000.
Petuchowski, Samuel J.; and Giallorenzi, Thomas G., 4,641,916, Cl. 372-97.000.
Phillips, Thomas E.; and Marez, John, 4,647,966, Cl. 358-88.60.
Plourde, Bertrand E.; and Mack, Michael E., 4,660,085, Cl. 372-12.000.
Poljak, Mark D., 4,659,994, Cl. 324-426.000.
Quick, Wilson M.; and Hallmark, Richard G., 4,649,525, Cl. 102-307.000.
Rauscher, Christen, 4,661,789, Cl. 333-202.000.
Rauscher, Christen, 4,670,722, Cl. 331-117.0FE.
Reedy, Ronald E., 4,649,624, Cl. 29-571.000.
Reid, Daniel G.; and Van Meter, C. Sterling, 4,658,261, Cl. 343-771.000.
Rice, Roy W., 4,642,218, Cl. 419-11.000.
Rice, Roy W., 4,642,271, Cl. 428-698.000.
Richardson, Steven D., 4,702,322, Cl. 169-28.000.
Robbins, William L., 4,695,921, Cl. 361-308.000.
Rock, Robert G., 1,697,186, Cl. 342-189.000.
Romeo, Frank P., Jr., 4,634,988, Cl. 328-167.000.
Rose, Millard F., 4,640,180, Cl. 89-8.000.
Rose, Millard F.; and Fitch, Osa E., 4,656,918, Cl. 89-8.000.
St. Amand, Pierre; and Mathews, Larry A., 4,653,690, Cl. 239-2.100.
Samaro, Edward J., 4,662,581, Cl. 244-3.220.
Saur, Joseph W.; Reynolds, Charles P.; and Black, Alfred T., 4,710,472, Cl. 435-287.000.
Schmitt, Ray F.; Trent, Chadwick L.; Gevin, Joseph A.; and Kempel, Francis D., 4,647,371, Cl. 210-96.100.
Schmitt, Ray F.; Gavin, Joseph A.; Kempel, Francis D.; and Waltrick, Charles N., deceased, 4,649,281, Cl. 250-574.000.
Seubert, John G.; Beasly, Kevin G.; Herold, Stanley J.; and Laswell, John E., 4,674,807, Cl. 102-293.000.

Shipman, John D., Jr.; and Wexler, Bernard L., 4,665,526, Cl. 372-83.000.
Sitzmann, Michael E.; and Gilligan, William H., 4,705,899, Cl. 568-590.000.
Soper, William G., 4,644,843, Cl. 89-7.000.
Spezio, Anthony E., 4,634,230, Cl. 350-358.000.
Spychalski, Stephen E., 4,644,505, Cl. 367-15.000.
Spychalski, Stephen E., 4,689,578, Cl. 330-2.000.
Stern, Kurt H., 4,662,998, Cl. 204-39.000.
Stiffey, Arthur V.; Blank, David L.; and Loeb, George I., 4,689,305, Cl. 435-291.000.
Sutton, Donald C., 4,704,925, Cl. 81-9.400.
Swenson, Richard C., 4,662,609, Cl. 254-371.000.
Tarr, Paulo B., 4,648,041, Cl. 364-481.000.
Taylor, Henry F.; Weller, Joseph F.; and Goldberg, Lew, 4,635,246, Cl. 370-3.000.
Taylor, Owen S., 4,663,503, Cl. 200-144.00R.
Thibeault, Richard L., 4,672,337, Cl. 333-167.000.
Thomas, Richard E.; and Ritz, Victor H., 4,675,091, Cl. 204-192.150.
Thompson, Phillip E.; and Dietrich, Harry B., 4,673,446, Cl. 148-33.000.
Vaughan, John C.; and Perkins, Russel G., Jr., 4,691,878, Cl. 244-7.00R.
Wagstaff, Ronald A.; and Berrou, Jean L., 4,648,057, Cl. 364-726.000.
Weiss, Herbert V., 4,636,358, Cl. 422-6.000.
Wendel, Gary M., 4,649,701, Cl. 60-232.000.
Wilger, John F.; Orillo, Stephen, Jr.; and Nakano, Gregory S., 4,682,631, Cl. 138-94.000.
Wilson, Fred W.; and Smith, Timothy D., 4,696,362, Cl. 180-116.000.
Winyard, David C., 4,655,698, Cl. 418-85.000.
Yoder, Max N., 4,671,845, Cl. 156-610.000.
Yoder, Max N.; and Wright, George B., 4,710,478, Cl. 437-40.000.
Zenobi, Thomas J., 4,667,902, Cl. 244-122.00A.

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Torres, Aldo A., 4,668,351, Cl. 49-74.000.

Transportation: *See*—
Kalafus, Rudolph M., 4,684,949, Cl. 342-41.000.

U.S. Environmental Protection Agency: *See*—
Wilson, John T., Jr.; and Wilson, Barbara H., 4,713,343, Cl. 435-264.000.

U.S. Philips Corporation: *See*—
Aarts, Petrus J. J.; and Huber, Alois, 4,681,281, Cl. 242-200.000.
Aben, Hermanus J. S., 4,677,463, Cl. 358-40.000.
Accou, Jan F., 4,694,120, Cl. 174-68.500.
Agoston, Andras; and Mattsson, Lennart P. J., 4,705,990, Cl. 315-39.550.
Akerlund, Mats P.; and Stromback, Ture J., 4,638,301, Cl. 340-347.0CC.
Albach, Manfred, 4,712,169, Cl. 363-89.000.
Aldenhoven, Ghislanus M. A. M., 4,649,532, Cl. 369-270.000.
Aldenhoven, Ghislanus M. A. M., 4,660,109, Cl. 360-96.300.
Aldenhoven, Ghislanus M. A. M., 4,665,451, Cl. 360-90.000.
Alexis, Roger P. J., 4,638,479, Cl. 370-95.000.
Allezard, Roland; and Degouy, Jean-Luc, 4,656,480, Cl. 342-151.000.
Almering, Petrus C. M.; and Zwaga, Bocke, 4,709,158, Cl. 307-200.00A.
Andersson, Nils A. T.; and Lindgren, Bo S., 4,650,092, Cl. 221-222.000.
Andrea, Johan; Lubchenko, Eugene; and Bradley, Ralph H., 4,679,069, Cl. 358-60.000.
Andrews, Arthur S.; and Widmer, David S., 4,708,478, Cl. 356-244.000.
Anflo, Kjell S.; and Grabs, Jan W. I., 4,682,178, Cl. 342-202.000.
Annegarn, Marcellinus J. J. C.; and Welles, Petrus W. G., 4,636,864, Cl. 358-191.100.
Appels, Johannes A.; and Maas, Henricus G. R., 4,689,872, Cl. 437-228.000.
Arragon, Jean-Pierre; and Michel, Jean-Pierre, 4,691,352, Cl. 380-14.000.
Auwerda, Cornelis P.; Geittner, Peter E. E.; and Lydtin, Hans-Jurgen, 4,714,589, Cl. 427-39.000.
Baggen, Constant P. M. J., 4,642,808, Cl. 371-39.000.
Baggen, Constant P. M. J., 4,667,317, Cl. 369-59.000.
Baggen, Constant P. M. J., 4,675,870, Cl. 371-39.000.
Baggen, Constant P. M. J.; Driessen, Leonardus M. H. E.; Pollen, Rudy W. J.; and Vries, Lodewijk B., 4,683,572, Cl. 371-37.000.
Bahrle, Peter; and Lange, Heinz, 4,659,680, Cl. 358-172.000.
Bailleul, Gilles; and Sannes, Tjerk, 4,679,317, Cl. 29-828.000.
Bailleul, Gilles, 4,689,443, Cl. 174-102.00P.
Baker, Geoffrey, 4,697,081, Cl. 250-338.000.
Bakker, Eppe; and Hoekstra, Albert, 4,707,915, Cl. 30-43.600.
Bakker, Gijsbertus; and Rorije, Gerhardus J., 4,639,636, Cl. 313-408.000.
Bakker, Gijsbertus; and Gerhardus, Rorije J., 4,675,571, Cl. 313-461.000.
Bakker, Jan, 4,663,536, Cl. 29-603.000.
Ball, Diana M.; Mabey, Peter J.; and Stein, Paul J., 4,672,608, Cl. 370-93.000.
Barbu, Stefan; Valkestijn, Leonardus; and van de Kerkhof, Franciscus A. M., 4,695,839, Cl. 340-825.060.
Barbu, Stefan, 4,703,284, Cl. 330-259.000.
Barnes, Harold E., 4,701,749, Cl. 340-384.00R.
Bates, Robert N., 4,642,577, Cl. 331-47.000.
Baudry, Hugues; Monneraye, Marc A.; and Morhaim, Claude, 4,636,257, Cl. 106-19.000.
Baudry, Hugues, 4,684,543, Cl. 427-96.000.
Baudry, Hugues, 4,699,827, Cl. 428-630.000.
Bauer, Manfred, 4,646,340, Cl. 378-155.000.
Beasley, James P., 4,701,623, Cl. 250-492.200.
Beaumont, Christen J. M., 4,639,672, Cl. 324-318.000.
Becker, Gerhard, 4,651,246, Cl. 360-105.000.
Beckley, John C.; Brennand, Peter R.; and Murray, Bruce, 4,665,427, Cl. 358-11.000.
Beckmann, Friedrich K.; Dotsch, Horst; and Hoppe, Wolfgang, 4,702,557, Cl. 350-330.000.
Beckmann, Friedrich-Karl; Hoppe, Wolfgang; and Knochel, Reinhard, 4,708,471, Cl. 336-73.100.
Beenakker, Cornelis I. M.; and Van De Poll, Raoul P. J., 4,666,857, Cl. 436-124.000.
Begas, Henk W. A., 4,686,459, Cl. 324-132.000.
Bergsma, Wijtse; Labrijn, Hans; and Sterk, Olivier, 4,698,908, Cl. 30-43.600.
Bergsma, Wijtse; and Oord, Klaas T., 4,711,028, Cl. 30-43.600.
Bernatets, Jean-Luc, 4,676,251, Cl. 128-660.000.
Bertram, Leo; Diefenbach, Gerhard; and Schemmann, Hugo, 4,636,676, Cl. 310-162.000.
Bertram, Leo; Bukoschek, Romuald L.; and Steiner, Peter, 4,637,283, Cl. 81-3.200.
Bertram, Leo; and Schemmann, Hugo, 4,684,840, Cl. 310-162.000.
Bertram, Leo; and Schemmann, Hugo, 4,691,132, Cl. 310-156.000.
Bertram, Leo; and Schemmann, Hugo, 4,714,851, Cl. 310-156.000.
Beyersbergen van Henegouwen, Cornelis M.; van de Kerkhof, Hubertus F. W.; Koken, Karel G. M.; and Oliverook, John C. J., 4,634,020, Cl. 220-335.000.
Bianchi, Vittorio; Hensing, Johannes M. M.; and Munnig Schmidt, Robert H., 4,700,090, Cl. 310-36.000.
Bierhoff, Martinus P. M., 4,637,006, Cl. 369-59.000.
Bierhoff, Martinus P. M.; van Mil, Job F. P.; Schoofs, Franciscus A. C. M.; and Slomp, Albert H., 4,663,749, Cl. 369-44.000.
Bierhoff, Martinus P. M.; and Lonij, Hubertus M. M., 4,683,561, Cl. 369-45.000.
Bierhoff, Waltherus C. J.; Schuitmaker, Pieter D.; Ouwerkerk, Cornelis; and Verhoeven, Robertus J. M., 4,696,590, Cl. 400-613.000.
Bierhoff, Waltherus C. J., 4,703,346, Cl. 358-75.000.
Bierhoff, Waltherus C. J.; and Muller, Johannes C. A., 4,704,619, Cl. 346-139.00R.
Binet, Michel J. M.; and Ducourant, Thierry, 4,656,371, Cl. 307-362.000.
Blanken, Pieter G.; and van der Zee, Pieter, 4,679,092, Cl. 358-252.000.
Blanken, Pieter G.; and van der Zee, Pieter, 4,680,640, Cl. 358-243.000.
Bloemen, Hendrikus F. B., 4,700,130, Cl. 324-110.000.
Blood, Peter, 4,678,989, Cl. 324-158.00D.
Bohm, Heinz, 4,657,344, Cl. 350-162.240.
Bollard, David R., 4,691,381, Cl. 455-334.000.
Bosch, Sieds, 4,649,643, Cl. 30-43.000.
Bosch, Sieds, 4,663,842, Cl. 30-43.600.
Boudewijns, Arnoldus J. J.; and Esser, Leonard J. M., 4,649,554, Cl. 377-60.000.
Boudewijns, Arnoldus J. J., 4,654,682, Cl. 357-24.000.
Boudewijns, Arnoldus J. J.; and Esser, Leonard J. M., 4,677,650, Cl. 377-63.000.
Boudewijns, Arnoldus J. J., 4,691,218, Cl. 357-24.000.
Boudewijns, Arnoldus J. J., 4,697,329, Cl. 437-2.000.
Bouman, Anton J.; and Geertsema, Eise B., 4,642,520, Cl. 315-73.000.
Bouman, Anton J.; Kostlin, Heiner; and Kroomtje, Wiggert, 4,645,967, Cl. 313-248.000.
Bourgonje, Wouter; Janssen, Daniel J. G.; van Reede, Willem A.; and Vossen, Johannes A. A., 4,672,606, Cl. 370-85.000.
Boutterin, Daniel; Bertaux, Jean-Paul; and Bader, Alain, 4,639,916, Cl. 371-16.000.
Bouwer, Adrianus G., 4,698,575, Cl. 318-640.000.
Braat, Josephus J. M., 4,641,929, Cl. 350-432.000.
Braat, Josephus J. M.; and Smid, Albert, 4,668,056, Cl. 350-432.000.
Braun, Walter; Kersten, Reinhard; and Kuhl, Egbert, 4,714,822, Cl. 219-449.000.
Bril, Thijs W.; Dekker, Pieter; Postma, Lambertus; and Wittner, Cornelis H. M., 4,657,249, Cl. 360-119.000.
Bringmann, Udo; Drews, Klaus; and Schon, Detlef G., 4,673,588, Cl. 427-41.000.
Bringmann, Udo; Drews, Klaus; and Schon, Detlef, 4,715,319, Cl. 118-723.000.
Brock, Thorsten, 4,683,495, Cl. 358-148.000.
Broer, Dirk J.; Zwiers, Renso J. M.; and Jochem, Cornelis M. G., 4,682,853, Cl. 350-128.000.
Brouwer, Geesje; and Wadman, Sipke, 4,684,251, Cl. 356-315.000.
Bruno, Richard; and Van Luyt, Balthasar A. G., 4,707,729, Cl. 358-13.000.
Bryant, Stewart F.; Baker, Stephen J.; and Cook, Richard A., 4,638,442, Cl. 364-489.000.
Bryant, Stewart F., 4,642,473, Cl. 307-38.000.
Bugg, Richard E. F., 4,672,571, Cl. 340-749.000.
Bugg, Richard E. F., 4,682,161, Cl. 340-731.000.

Bugg, Richard E. F., 4,695,835, Cl. 340-750.000.
Buijs, Johannes H., 4,642,590, Cl. 333-218.000.
Bukman, Dirk; Helzel, Thomas; and Roschman, Peter, 4,694,836, Cl. 128-653.000.
Bukoschek, Romuald L.; and Huszar, Reinhard, 4,696,166, Cl. 62-136.000.
Bukoschek, Romuald L.; Eckel, Merowech; and Schroder, Johann, 4,712,386, Cl. 62-342.000.
Camerik, Eduard, 4,661,940, Cl. 369-111.000.
Chantepie, Bernard, 4,661,725, Cl. 307-450.000.
Chermin, Hubertus M. J.; and Rozenboom, Jaap, 4,647,820, Cl. 315-245.000.
Christiansen, Dieter H. C., 4,635,284, Cl. 378-197.000.
Chua, Lye-Whatt, 4,638,319, Cl. 342-417.000.
Chua, Lye-Waatt; and Gibson, Peter J., 4,673,897, Cl. 333-26.000.
Chung, Kah-Seng; and Boschma, Klaas M., 4,672,634, Cl. 375-62.000.
Chung, Kah-Seng, 4,675,881, Cl. 375-78.000.
Chung, Kah-Seng; and Verstappen, Hendrikus L., 4,686,688, Cl. 375-47.000.
Claasen, Theodoor A. C. M.; Beenker, Gerardus F. M.; van Gerwen, Petrus J.; Meijer, Johannes M.; and Didden, Martinus L. N., 4,660,216, Cl. 375-58.000.
Claasen, Theodoor A. C. M.; Beenker, Gerardus F. M.; Van Gerwen, Petrus J.; Meijer, Johannes M.; and Didden, Martinus L. N., 4,672,633, Cl. 375-58.000.
Clark, David G., 4,692,756, Cl. 340-709.000.
Clarke, John A., 4,699,476, Cl. 350-432.000.
Clarke, John A., 4,699,477, Cl. 350-432.000.
Clasen, Rolf; and Scholz, Heinz, 4,680,047, Cl. 65-17.000.
Clasen, Rolf; and Scholz, Heinz, 4,681,614, Cl. 65-18.100.
Clasen, Rolf, 4,682,995, Cl. 65-18.100.
Clasen, Rolf, 4,684,385, Cl. 65-17.000.
Clasen, Rolf, 4,684,386, Cl. 65-18.100.
Clasen, Rolf; and Hermann, Wilhelm G., 4,684,387, Cl. 65-18.400.
Clasen, Rolf; and Hermann, Wilhelm G., 4,689,066, Cl. 65-18.100.
Clasen, Rolf, 4,695,305, Cl. 65-18.300.
Cole, David J.; and Cosh, Ian S., 4,636,839, Cl. 358-22.000.
Comberg, Albert A.; Knops, Alwin; Oepen, Heinrich A.; and Wadow, Dieter, 4,651,047, Cl. 313-22.000.
Comberg, Albert A.; and Schroder, Johann, 4,678,961, Cl. 313-36.000.
Conrads, Norbert; Schiebel, Ulrich; and Kirchhoff, Rolf, 4,635,072, Cl. 346-1.100.
Corneitssen, Bernardus H. J.; and Wulms, Henricus E. J., 4,642,485, Cl. 307-443.000.
Cosh, Ian S., 4,636,838, Cl. 358-22.000.
Coursant, Roger H., 4,677,981, Cl. 128-660.000.
Crowther, Gerald O.; and Mason, Arthur G., 4,636,854, Cl. 358-123.000.
Crowther, Gerald O., 4,651,205, Cl. 380-14.000.
Cuppen, Johannes J. M., 4,682,109, Cl. 324-309.000.
Cuppen, Johannes J. M.; and Groen, Johannes P., 4,707,660, Cl. 324-309.000.
Cuppens, Roger; and Hartgring, Cornelis D., 4,707,807, Cl. 365-154.000.
Damen, Johannes P. M.; Prijs, Klaas; Witmer, Cornelis H. M.; and de With, Gijsbertus, 4,665,612, Cl. 29-603.000.
Dammann, Hans; and Kurz, Heinrich, 4,679,901, Cl. 350-162.200.
Damstra, Ate K., 4,672,367, Cl. 340-657.000.
Dannert, Horst; Ganser, Hans-Gunther; Schafer, Ralf; and Stormberg, Hans-Peter, 4,714,862, Cl. 315-244.000.
David, Gerard R., 4,651,181, Cl. 357-23.400.
De Graaff, Hendrik C.; and Voncken, Wilhelmus G., 4,697,199, Cl. 357-23.130.
de Groot, Jacob; and Haris, Thomas A. J., 4,635,018, Cl. 336-178.000.
de Haan, Gerard, 4,698,665, Cl. 358-12.000.
de Hair, Johannes T. W.; van Kemenade, Johannes T. C.; and Berns, Everhardus G., 4,644,223, Cl. 313-487.000.
de Jong, Roelof P., 4,653,118, Cl. 455-286.000.
Dekker, Albert; and Dekker, Evert H. L. J., 4,672,512, Cl. 361-433.000.
De Laat, Antonius W. M., 4,650,735, Cl. 430-16.000.
de Man, Rolf E.; de Ridder, Jan; Sprengers, Leo M.; and Peeters, Jozef I. C., 4,636,691, Cl. 315-209.00R.
Demmer, Walter H., 4,641,131, Cl. 340-347.0DA.
Demmer, Walter H., 4,642,689, Cl. 358-166.000.
den Boef, Johannes H., 4,682,110, Cl. 324-309.000.
Den Boef, Johannes H., 4,706,023, Cl. 324-309.000.
den Broeder, Friedrich J. A.; Draaisma, Henricus J. G.; and Kahle, Alexander, 4,678,721, Cl. 428-607.000.
Den Exter Blokland, Hendrikus B.; and van Raay, Petrus J., 4,695,135, Cl. 350-452.000.
den Hollander, Cornelis J.; and Winters, Geert, 4,651,328, Cl. 375-25.000.
De Poorter, Johannes A.; De Waard, Peter J.; Tijburg, Rudolf P.; and Dinghs, Gerardus L., 4,670,966, Cl. 29-569.00L.
Derks, Pierre L. L. M.; Lersmacher, Bernhard; and Lydtin, Hans-Jurgen, 4,685,946, Cl. 65-17.000.
Desperben, Lydie; Sari, Hikmet; and Moridi, Said, 4,687,999, Cl. 329-109.000.
Dessens, Petrus A.; and Rumphorst, Reiner F., 4,673,864, Cl. 323-221.000.
Deutsch, Armin; and Ruyten, Henricus M., 4,636,889, Cl. 360-96.200.
Deutsch, Armin; and Ruyten, Henricus M., 4,649,446, Cl. 360-105.000.
De Wilde, Johannes; and van Den Hoek, Willibrordus G. M., 4,666,554, Cl. 156-643.000.
De Wit, Hendrik J.; Brouha, Marcel; Enz, Ulrich E.; Jager, Cornelis; Van Der Borst, Albertus J. C.; and Turk, Gijsbertus W., 4,685,012, Cl. 360-125.000.
Dieleman, Adrianus H., 4,665,396, Cl. 380-23.000.
Dieleman, Pieter J.; Goedbloed, Willem; De Jong, Roelof P.; and Oosterwijk, Theodorus M., 4,706,051, Cl. 333-212.000.
Dijkmans, Eise C., 4,636,739, Cl. 330-51.000.
Dijkmans, Eise C., 4,670,720, Cl. 330-255.000.
Dijkmans, Eise C.; Raets, Joseph G. G.; and Philips, Norbert J. L., 4,688,001, Cl. 330-273.000.
Dijkmans, Eise C.; Raets, Joseph G. G.; and Philips, Norbert J. L., 4,706,035, Cl. 330-156.000.
Dijkmans, Eise C.; Raets, Joseph G. G.; and Philips, Norbert J. L., 4,706,039, Cl. 330-297.000.
Dijkmans, Eise C., 4,706,066, Cl. 340-347.0DA.
Dijkstra, Arend; Haijkens, Bernardus; and Veenstra, Mient, 4,691,134, Cl. 310-234.000.
Dirks, Albertus G.; and Brongersma, Hidde H., 4,709,363, Cl. 369-275.000.
Ditscheid, Hans P.; and Burger, Walter, 4,659,174, Cl. 350-96.20.
Dohmen, Gerardus M.; Fijnvandraat, Jacob G.; and Sastra, Budman, 4,706,146, Cl. 360-122.000.
Dohmen, Petrus J. M., 4,691,142, Cl. 313-623.000.
Dolizy, Pierre, 4,698,496, Cl. 250-213.0VT.
Doornveld, Herman E., 4,668,334, Cl. 156-640.000.
Doyen, Daniel; and Vriz, Tarcisio, 4,710,729, Cl. 331-96.000.
Driessen, Leonardus M. H. E., 4,675,869, Cl. 371-37.000.
Duchenois, Valere; Fouassier, Michele; and Baudry, Hugues, 4,684,846, Cl. 313-475.000.
Duchenois, Valere D. L., 4,647,810, Cl. 313-36.000.
Duchenois, Valere D. L.; and Jean, Bernard L. P., 4,672,193, Cl. 250-207.000.
Ducourant, Thierry, 4,649,293, Cl. 307-362.000.
Duijkers, Peter A., 4,636,860, Cl. 358-148.000.
Dunnebacke, Joachim A., 4,682,364, Cl. 381-109.000.
Dureux, Pierre J. C., 4,642,623, Cl. 340-728.000.
Duvent, Jean-Louis, 4,701,782, Cl. 358-227.000.
Easthill, Stephen P., 4,642,753, Cl. 364-184.000.
Eijsermans, Antonius A. C. C., 4,715,025, Cl. 369-75.200.
Einhaus, Hermanus F., 4,682,319, Cl. 369-75.200.
Einhaus, Hermanus F., 4,694,449, Cl. 369-246.000.
Einhaus, Hermanus F., 4,701,903, Cl. 369-216.000.
Eizenhofer, Alfons; and Grauel, Christoph, 4,688,210, Cl. 370-18.000.
Ekkelboom, Tjepke H., 4,703,672, Cl. 76-107.00A.
Elliott, Kenneth F., 4,706,819, Cl. 211-41.000.
Elsner, Hans; and Prendel, Peter, 4,669,027, Cl. 361-111.000.
Erman, Marko; Vodjdani, Nakita; and Theeten, Jean-Bernard, 4,652,077, Cl. 350-96.120.
Erman, Marko; Theeten, Jean-Bernard; and Vodjdani, Nakita, 4,708,423, Cl. 350-96.150.
Eschard, Gilbert, 4,649,314, Cl. 313-103.0CM.
Esser, Leonard J. M.; Van de Wiel, Petrus J. A. M.; Daverveld, Leonardus A.; and Van Gils, Johannes A. A., 4,716,446, Cl. 357-23.140.
Faber, Johannes W., 4,660,118, Cl. 360-133.000.
Faber, Johannes W.; and Janssen, Peter J. M., 4,698,795, Cl. 369-219.000.
Fabien, Raymond; and Decrouen, Jean-Michel, 4,692,204, Cl. 156-626.000.
Faes, Franciscus C. M.; Van Gastel, Josephus M. M.; Smolders, Jozef G. H. M.; Theelen, Hubertus J.; and Verberne, Petrus A. C., 4,657,158, Cl. 221-25.000.
Faes, Franciscus C. M.; van de Ven, Johannes T. A.; Verberne, Petrus A. C.; and Smolders, Jozef G. H. M., 4,664,591, Cl. 414-753.000.
Faessen, Louis M. H.; and Khoe, Giok D., 4,695,129, Cl. 350-96.250.
Fick, Franz, 4,657,339, Cl. 350-96.200.
Fick, Franz, 4,676,816, Cl. 65-43.000.
Field, Anthony J., 4,680,630, Cl. 358-160.000.
Field, Anthony J.; Heerah, Atma; and Mackereth, Thomas C., 4,707,742, Cl. 358-183.000.
Fierens, Gustaaf E. M., 4,696,037, Cl. 381-24.000.
Fischer, Hanns E., 4,700,107, Cl. 313-631.000.
Fleck, Harald; Hutter, Heinrich; and Jager, Heimo, 4,654,730, Cl. 360-96.500.
Foxon, Charles T., 4,640,720, Cl. 148-175.000.
Franken, Adrianus J. J.; van Bers, Waltherus A. M.; van Bree, Rene M.; and van Kasteren, Adrianus C., 4,647,166, Cl. 353-79.000.
Fritz, Johannes H.; and Van de Leest, Renaat E., 4,693,769, Cl. 156-73.100.
Froling, Melchert H.; and Schmitz, Herman J. R., 4,701,794, Cl. 358-147.000.
Froschl, Kurt; and Jager, Lothar, 4,654,731, Cl. 360-96.500.
Gabillard, Bertrand, 4,644,189, Cl. 307-449.000.
Ganser, Hans G.; Kersten, Reinhard, Schafer, Rolf; and Stormberg, Hans P., 4,705,991, Cl. 315-209.00R.
Gartner, Georg F.; and Janiel, Peter A., 4,659,591, Cl. 427-253.000.
Gartner, Georg F.; Janiel, Peter A.; and Lydtin, Hans-Jurgen, 4,713,259, Cl. 427-39.000.

ngs, Michael P. W.; Christis, Wilhelmus J.; Fekkes, Wilhel-
s F.; and Schmitz, Herman J. R., 4,697,046, Cl. 178-1.000.
s, Wilhelmus H. M.; Stok, Filippus L.; and Tienkamp, Eng-
t, 4,709,260, Cl. 358-51.000.
, Derek J.; and Bergstrom, Michael, 4,695,774, Cl.
-408.000.
ema, Jan, 4,641,332, Cl. 378-125.000.
ema, Jan; Hagen, Johannes L. M.; and Rietdijk, Johan A.,
44,577, Cl. 378-133.000.
tsen, Jan; and Mensies, Otto, 4,691,139, Cl. 313-413.000.
ts, Martinus F. A. M., 4,670,718, Cl. 328-14.000.
ounus, Alex, 4,639,617, Cl. 307-296.00R.
on, Rodney W., 4,682,117, Cl. 329-50.000.
th, Johannes H. N.; and Vennix, Johannus A., 4,670,687, Cl.
-404.000.
n, Wilhelmus A. H.; and van Rosmalen, Gerard E., 4,694,442,
369-44.000.
r, Henricus F. J. L., 4,672,514, Cl. 362-297.000.
mann, Peter, 4,639,793, Cl. 360-44.000.
sens, Laurentius M. J.; te Raa, Gerhardus A.; and van
eenen, Bernhard J. P., 4,641,333, Cl. 378-144.000.
er, Frederik W.; Morel, Jean-Paul G. R.; and Ruigrok, Jacobus
M., 4,670,807, Cl. 360-120.000.
de, Marie; and Six, Jean-Claude, 4,689,616, Cl. 340-725.000.
rner, Serge; and Theeten, Jean-Bernard, 4,645,683, Cl.
7-38.000.
el, Christoph; Kittel, Ludwig; Schmidt, Werner; and Wellens,
rich, 4,697,260, Cl. 370-18.000.
esteijn, Dirk J.; and Van Der Poel, Carolus J., 4,647,944, Cl.
6-1.100.
afson, Bengt G., 4,639,900, Cl. 367-5.000.
afson, Jan A. C., 4,645,892, Cl. 219-10.55D.
ma, Jan; van der Werf, Pieter; Robertson, John M., deceased;
d de Haan, Freidrich J., administrator, 4,679,892, Cl.
0-96.120.
e, Manfred; and Grambow, Hans J., 4,677,689, Cl. 455-181.000.
os, Hartmut, 4,698,557, Cl. 315-383.000.
, Cornelis M.; and Slob, Arie, 4,714,842, Cl. 307-477.000.
gring, Cornelis D., 4,644,250, Cl. 323-225.000.
gring, Cornelius D.; and Joosten, Johannes J. M., 4,709,255, Cl.
7-23.500.
l, Walter A. M.; Peter, Diethard A.; and Reiber, Klaus H.,
677,651, Cl. 378-132.000.
an, Jean-Pierre; and Steers, Michel, 4,639,137, Cl. 356-339.000.
an, Jean-Pierre; and Steers, Michel, 4,713,514, Cl. 219-10.55B.
kmann, Siegfried, 4,673,291, Cl. 356-73.100.
mskerk, Jacobus P. J., 4,665,310, Cl. 250-201.000.
rah, Atma, 4,660,081, Cl. 358-160.000.
rah, Atma, 4,682,227, Cl. 358-160.000.
rah, Atma, 4,700,228, Cl. 358-160.000.
er, Arthur; Gierlinger, Friedrich; and Schaumberger, Alfred,
646,137, Cl. 358-23.000.
el, Thomas, 4,646,086, Cl. 340-870.290.
el, Thomas; Kordts, Jurgen; and Martens, Gerhard, 4,664,129,
l. 128-774.000.
nings, Detlev; Schnell, Axel; and Schreinemacher, Herbert,
692,289, Cl. 264-61.000.
mens, Joannes L. G., 4,678,918, Cl. 250-374.000.
rmann, Jochem; and Pelgrom, Marcellinus J. M., 4,700,229, Cl.
58-166.000.
huin, Serge; and Marin, Guy F. M., 4,636,958, Cl. 364-451.000.
ts, Jacobus J. F. G.; and Willems, Johannes J. G. S. A.,
699,856, Cl. 429-218.000.
ts, Jacobus J. F. G.; and Frens, Gerrit, 4,702,978, Cl.
29-218.000.
, Bernhard, 4,714,325, Cl. 350-376.000.
, Claude E.; and Michel, Jacqueline-Madeleine, 4,687,285, Cl.
50-96.180.
eberechts, Arthur M. E., 4,651,052, Cl. 313-446.000.
eberechts, Arthur M. E., 4,652,899, Cl. 357-29.000.
eberechts, Arthur M. E.; and van Gorkom, Gerardus G. P.,
682,074, Cl. 313-444.000.
eberechts, Arthur M. E., 4,691,191, Cl. 340-347.00P.
eberechts, Arthur M. E.; Van Hal, Henricus A. M.; Tolner,
darm; and Van Gorkom, Gerardus G. P., 4,709,185, Cl. 313-
46.00R.
ffman, Hans; and Heubach, Frank, 4,635,121, Cl. 358-188.000.
ngendoorn, Abraham; and Kuchar, Franz, 4,636,874, Cl.
60-10.200.
ppmanns, Rolf D.; Steup, Walter; Wieczorek, Willibald; and
Beitler, Franz, 4,639,801, Cl. 360-96.500.
instra, Jan; and Viegers, Mathias P. A., 4,649,557, Cl.
78-84.000.
rowitz, Paul; and van der Hoorn, Rudolf J. G. A., 4,649,531, Cl.
69-270.000.
ukes, Henk; Postma, Pieter; and Van Veghel, Andreas C.,
710,678, Cl. 315-39.000.
wden, Harry, 4,665,336, Cl. 313-36.000.
ber, Alois; and Hutter, Heinrich, 4,669,686, Cl. 242-204.000.
king, Ernst E.; and Klemmt, Karl-Heinz, 4,709,228, Cl. 340-
365.00S.
iskes, Cornelis; and Schutten, Evert D., 4,716,337, Cl.
313-487.000.
uzer, Cornelis M., 4,637,039, Cl. 377-121.000.
uzer, Cornelis M., 4,691,127, Cl. 307-475.000.
ashima, Toshiro, 4,667,314, Cl. 369-32.000.

Jacrot, Michel, 4,686,410, Cl. 313-113.000.
Jansen, Gerardus L. M.; Smulders, Henricus J.; and Schuitmaker, Pieter D., 4,691,311, Cl. 36[illegible]-100.000.
Jansen, Winfrid B.; and Nolde, Wolfgang, 4,669,119, Cl. 381-13.000.
Janssen, Johannes H. H., 4,703,236, Cl. 318-254.000.
Janssen, Petrus J.; and Janssens, Peter C., 4,690,503, Cl. 350-96.300.
Jarry, Philippe; Haji, Mohamed L.; Guittard, Pierre; Guillemet, Bernard; and Piaget, Claude, 4,683,163, Cl. 428-209.000.
Jenner, Michael D.; and Lamb, Joy A., 4,663,529, Cl. 250-338.000.
Jochem, Cornelis M. G.; and van der Ligt, Jacobus W. C., 4,644,898, Cl. 118-405.000.
Jochem, Cornelis M. G.; and van der Ligt, Jacobus W. C., 4,704,307, Cl. 427-117.000.
Johannes, Kurt J., 4,684,988, Cl. 358-154.000.
Johannes, Kurt J.; and Ruprecht, Jurgen, 4,689,665, Cl. 358-27.000.
Jongepier, Abraham; and Kasperkovitz, Wolfdietrich G., 4,636,663, Cl. 307-529.000.
Jongepier, Abraham, 4,648,127, Cl. 455-212.000.
Joosten, Henricus C. M., 4,715,119, Cl. 29-858.000.
Kabacinski, Mariusz, 4,692,822, Cl. 360-84.000.
Kahlman, Josephus A. H. M.; and Hoogendijk, Adrianus H., 4,642,702, Cl. 358-322.000.
Kaizer, Adrianus J. M.; Sangster, Frederik L. J.; and Wesche, Cornelis A. M., 4,649,565, Cl. 381-90.000.
Kaizer, Adrianus J. M.; and Van Leeuwen, Gerrit H., 4,709,391, Cl. 381-98.000.
Kasperkovitz, Wolfdietrich G.; and Van Rumpt, Herman W., 4,639,679, Cl. 328-20.000.
Kasperkovitz, Wolfdietrich G.; and Meeuwis, Johannes C. M., 4,642,482, Cl. 307-264.000.
Kasperkovitz, Wolfdietrich G., 4,709,163, Cl. 307-297.000.
Kemner, Rudolf; and Reuvers, Gerardus L. J., 4,689,565, Cl. 324-309.000.
Kemner, Rudolf; Kalmijn, Hilco T.; and Van Heelsbergen, Teunis R., 4,707,662, Cl. 324-318.000.
Kemner, Rudolf; and Kalmijn, Hilco T., 4,712,069, Cl. 324-322.000.
Kessels, Jozef L. W.; and Bruekers, Alphons A. M. L., 4,686,670, Cl. 370-68.000.
Kettschau, Hans-Jurgen, 4,706,176, Cl. 363-21.000.
Khoe, Giok D.; Rittich, Dieter; Schmidt, Bernhard; and van Leest, Johannes H. F. M., 4,657,338, Cl. 350-96.210.
Khoe, Giok D.; Poulissen, Josephus H. F. M.; and De Vrieze, Henricus M., 4,671,609, Cl. 350-96.180.
Khoe, Giok D., 4,690,493, Cl. 350-96.200.
Khoe, Giok D.; and De Vrieze, Henricus M., 4,692,208, Cl. 156-659.100.
Khoe, Giok D., 4,708,426, Cl. 350-96.180.
Killoway, James M.; Stubbings, David J.; and Sparks, Geoffrey S., 4,688,261, Cl. 455-76.000.
Kinghorn, John R.; and Bugg, Richard E. F., 4,698,677, Cl. 358-147.000.
Kirkland, Robert N., 4,713,692, Cl. 358-150.000.
Kittel, Ludwig, 4,635,262, Cl. 371-42.000.
Kivits, Petrus J.; and De Bont, Marinus R. J., 4,675,227, Cl. 428-195.000.
Knapp, Alan G.; and Ellis, Harold W., 4,660,076, Cl. 358-73.000.
Knapp, Alan G.; and Lamport, Daphne L., 4,698,555, Cl. 315-366.000.
Knapp, Alan G.; Overall, Colin D.; and Slater, Richard A. M., 4,713,575, Cl. 313-400.000.
Kness, Werner; and Knees, Karl, 4,707,916, Cl. 30-43.920.
Kohler, Hans E. P., 4,712,105, Cl. 340-825.690.
Koken, Claus, 4,682,099, Cl. 324-63.000.
Koken, Karel G. M.; and van de Kerkhof, Hubertus F. W., 4,672,598, Cl. 369-75.200.
Kordi, Srdjan; Zieren, Victor; and Middelhoek, Simon, 4,694,248, Cl. 324-252.000.
Koster, Marinus P.; Soemers, Hermanus M. J. R.; and Dona, Marinus J. J., 4,713,977, Cl. 74-191.000.
Kraakman, Hillebrand J. J., 4,707,072, Cl. 350-96.210.
Kraus, Uwe E.; Boudewijns, Arnoldus J. J.; Boon, Cornelis A. M.; and Frensch, Adrianus J., 4,672,449, Cl. 358-148.000.
Kreeft, Hendrik K.; and Teunissen, Adrianus F., 4,699,328, Cl. 242-56.00R.
Kringe, Horst, 4,700,754, Cl. 141-95.000.
Kroon, Johannes N., 4,689,817, Cl. 381-52.000.
Kroontje, Wiggert, 4,645,468, Cl. 445-55.000.
Kunert, Heinz-Peter, 4,665,540, Cl. 378-21.000.
Kunz, Dietmar, 4,644,277, Cl. 324-309.000.
Kunz, Dietmar W., 4,670,716, Cl. 324-309.000.
Kunz, Dietmar W.; Tuithof, Hans H.; and Cuppen, Johannes J. M., 4,707,659, Cl. 324-309.000.
Kunze, Norbert, 4,661,866, Cl. 360-96.100.
Kupfer, Karl-Heinz, 4,667,167, Cl. 330-281.000.
Kupfer, Karl-Heinz, 4,710,974, Cl. 455-190.000.
Kupper, Karl H., 4,694,265, Cl. 333-185.000.
Kwiatkowski, Jean-Claude; and Imbert, Guy, 4,706,222, Cl. 365-230.000.
Larkin, Keith J., 4,695,731, Cl. 250-374.000.
Larsson, Klas G. I.; Lindholm, Rolf C.; and Strom, Johan P., 4,691,616, Cl. 89-41.070.
Lazzati, Jean P., 4,641,938, Cl. 354-243.000.
Le Floch, Gerard, 4,638,349, Cl. 358-23.000.
Lehnert, Ralf; Tran-Gia, Phuoc; and Lempennau, Wolfram, 4,680,784, Cl. 379-11.000.

Lemonier, Michel G.; and Petit, Maurice L. J., 4,687,922, Cl. 250-213.0VT.
Lentfer, Arno; and Luthje, Holger, 4,701,391, Cl. 430-5.000.
Le Poole, Jan B.; and Dekkers, Nicolaas H., 4,691,103, Cl. 250-311.000.
Lersmacher, Bernhard; Poque, Paul-Heinz; and Zimmermann, Klaus-Dieter, 4,653,913, Cl. 356-312.000.
Liebe, Johan, 4,651,048, Cl. 313-25.000.
Lindenmeier, Heinz; Manner, Ernst; and Flachenecker, Gerhard, 4,653,116, Cl. 455-205.000.
Lippits, Gerardus J. M.; Legierse, Petrus E. J.; and Dujardin, George J. P., 4,668,549, Cl. 428-65.000.
Littlejohn, David, 4,657,389, Cl. 356-312.000.
Logemann, Helmut, 4,661,991, Cl. 455-26.100.
Lohstroh, Jan; and Josquin, Wilhelmus J. M. J., 4,680,619, Cl. 357-86.000.
Lorteije, Jean H. J.; and Warrink, Geert, 4,672,357, Cl. 340-793.000.
Loscher, Jurgen, 4,700,359, Cl. 375-20.000.
Losel, Walter, 4,642,746, Cl. 363-49.000.
Losel, Walter, 4,694,388, Cl. 363-72.000.
Loy, Fernand R., 4,636,044, Cl. 350-539.000.
Loy, Fernand R., 4,639,082, Cl. 350-172.000.
Loy, Fernand R., 4,641,931, Cl. 350-538.000.
Loy, Fernand R., 4,642,452, Cl. 250-213.0VT.
Loy, Fernand R., 4,679,912, Cl. 350-410.000.
Loy, Fernand R., 4,704,521, Cl. 250-202.00R.
Loy, Fernand R., 4,710,621, Cl. 250-203.00R.
Ludikhuize, Adrianus W., 4,682,205, Cl. 357-53.000.
Lue, Hsueh C., 4,690,274, Cl. 206-328.000.
Luursema, Meerten, 4,645,976, Cl. 315-106.000.
Luyten, Peter R.; and Den Hollander, Jan A., 4,712,066, Cl. 324-309.000.
Maan, Nicolaus, 4,639,131, Cl. 356-73.100.
Maas, Henricus G. R.; and Appels, Johannes A., 4,659,428, Cl. 156-643.000.
Mackereth, Thomas C., 4,668,989, Cl. 358-182.000.
Magne, Francois, 4,706,092, Cl. 342-109.000.
Mannschke, Lothar, 4,660,973, Cl. 356-73.100.
Marche, Pierre, 4,681,282, Cl. 244-3.160.
Marie, Gerard J. M.; and Arragon, Jean-Pierre C., 4,672,425, Cl. 358-12.000.
Marinus, Antonius A., 4,694,385, Cl. 363-19.000.
Marinus, Antonius A. M., 4,688,159, Cl. 363-21.000.
Markvoort, Jan A.; and Rippens, Wilhelmus G. V. M., 4,644,519, Cl. 369-275.000.
Marshall, Christopher B.; Wilson, John F.; and Nettleship, Robert, deceased, 4,672,636, Cl. 375-88.000.
Marshall, Christopher B., 4,696,055, Cl. 455-118.000.
Marshall, Christopher B.; and French, Richard C., 4,713,563, Cl. 307-490.000.
Martens, Theodorus G. J. A.; Steenhof, Frits A.; and Kalfs, Johannes J. W., 4,641,310, Cl. 371-38.000.
Martin, Guy N.; and Jatteau, Michel R., 4,682,033, Cl. 250-363.00R.
Mastboom, Johannes G. P., 4,705,984, Cl. 313-318.000.
Mateika, Werner D.; Laurien, Rolf; and Lichr, Manfred R., 4,687,646, Cl. 422-248.000.
Mayer, Robert T., 4,707,854, Cl. 379-356.000.
McKinnon, Graeme-Colin, 4,669,311, Cl. 73-598.000.
McPherson, Andrew D., 4,686,676, Cl. 371-36.000.
Mestdagh, Gilbert E.; and Aldenhoven, Ghislanus M. A. M., 4,641,747, Cl. 206-309.000.
Metcalfe, John G., 4,639,703, Cl. 335-213.000.
Meuleman, Lambertus J.; and Valster, Adriaan, 4,677,634, Cl. 372-46.000.
Mewissen, Jan A. C., 4,678,959, Cl. 313-17.000.
Minnema, Lourens; and van der Zande, Johan M., 4,661,435, Cl. 430-311.000.
Moelands, Adrianus P. M. M.; and Schutte, Herman, 4,689,740, Cl. 364-200.000.
Moore, Paul A., 4,683,414, Cl. 320-13.000.
Mordant, Ludo H. J., 4,649,440, Cl. 360-69.000.
Moreau, Alain, 4,667,145, Cl. 323-275.000.
Moretti, Franco, 4,662,521, Cl. 206-484.200.
Moring, Wilhelm; Demmer, Walter H.; and Oldach, Detlef W. K., 4,672,447, Cl. 358-148.000.
Moring, Wilhelm; Nillesen, Antonius H. H. J.; and Ruprecht, Jurgen, 4,689,664, Cl. 358-23.000.
Morton, Stephen F. N., 4,639,136, Cl. 356-312.000.
Mulder, Cornelis; and Wulms, Henricus E. J., 4,716,314, Cl. 307-477.000.
Muller, Johannes C. A., 4,688,120, Cl. 360-85.000.
Muller, Johannes C. A., 4,701,821, Cl. 360-130.240.
Muller, Johannes C. A., 4,706,140, Cl. 360-85.000.
Munnig Schmidt, Robert H.; and Ter Heide, Lammert, 4,647,833, Cl. 320-21.000.
Murray, Bruce, 4,706,109, Cl. 358-12.000.
Naaijer, Geert J., 4,640,995, Cl. 200-11.0DA.
Nakayama, Mitsuhisa; and Kawanaka, Yoshikazu, 4,653,037, Cl. 369-38.000.
Nakayama, Mitsuhisa, 4,706,237, Cl. 369-75.100.
Naudi, Alain, 4,680,716, Cl. 364-468.000.
Nellen, Johannes H. M.; Slegers, Frans; Otten, Johannes H. B.; and Kole, Johannus W. G., 4,660,139, Cl. 363-68.000.
Neukomm, Hans R., 4,636,984, Cl. 365-182.000.
Neyer, Antonius A., 4,690,489, Cl. 350-96.140.
Nicia, Antonius J. A., 4,712,856, Cl. 350-96.120.
Nicolas, Jean-Marie, 4,680,966, Cl. 73-597.000.
Nicolas, Jean-Marie, 4,688,428, Cl. 73-602.000.
Nicolas, Jean-Marie; and Pesque, Patrick, 4,702,258, Cl. 128-660.000.
Nieuwendijk, Joris A. M.; Heijnemans, Werner A. L.; Sluijterman, Albertus A. S.; and Vink, Nicolaas G., 4,703,232, Cl. 315-370.000.
Nillesen, Antonius H. H. J., 4,682,209, Cl. 358-19.000.
Nolde, Wolfgang, 4,658,423, Cl. 381-13.000.
Ooms, Leo F. M., 4,658,180, Cl. 313-273.000.
Ooms, Leo F. M.; and Notelteirs, Victor R., 4,689,519, Cl. 313-112.000.
Oord, Klaas T., 4,688,329, Cl. 30-43.600.
Oosthoek, Willem H.; and Spang, Marinus A., 4,652,978, Cl. 361-433.000.
Op de Beek, Franciscus J.; and Kemna, Johannes W., 4,677,389, Cl. 330-129.000.
Osinga, Halbe, 4,692,731, Cl. 335-299.000.
Osseyran, Anwar; Van De Meerakker, Jacobus J. M.; Van Der Meulen, Harmen; and Osinga, Halbe, 4,713,641, Cl. 335-213.000.
Overath, Hilde M. A.; and Bierhoff, Martinus P. M., 4,697,258, Cl. 369-44.000.
Pals, Jan A.; and Klinkhamer, Arend J., 4,686,759, Cl. 437-51.000.
Parker, John P., 4,715,065, Cl. 381-46.000.
Peek, Hermanus L., 4,700,459, Cl. 437-53.000.
Peels, Antonius H. P. M., 4,668,892, Cl. 313-414.000.
Peels, Antonius H. P. M., 4,678,964, Cl. 313-414.000.
Peemoller, Horst; and Svensson, Heino, 4,697,049, Cl. 178-18.000.
Pelgrom, Marcellinus J. M., 4,688,220, Cl. 371-10.000.
Pelgrom, Marcellinus J. M., 4,695,753, Cl. 307-530.000.
Penna, David E., 4,649,380, Cl. 340-750.000.
Penna, David E., 4,712,191, Cl. 364-900.000.
Perkins, Charles V., 4,637,695, Cl. 350-631.000.
Perkins, Charles V., 4,681,445, Cl. 356-346.000.
Pesque, Patrick R.; and Nicolas, Jean-Marie C., 4,714,846, Cl. 310-317.000.
Pfennings, Leonardus C. M. G., 4,667,303, Cl. 364-784.000.
Plagge, Joseph A. M., 4,684,871, Cl. 320-21.000.
Plume, Edward G., 4,670,789, Cl. 358-186.000.
Ponjee, Johannes J.; and Verwijlen, Christiaan J. A., 4,639,382, Cl. 427-162.000.
Postma, Pieter; and van Vliet, Johannes A. J. M., 4,661,746, Cl. 315-248.000.
Postma, Pieter; and Lepelaars, Patricius W. M., 4,704,562, Cl. 315-248.000.
Prud'Homme Van Reine, Peter R.; and Siebers, Gerardus H. M., 4,699,774, Cl. 423-625.000.
Rademaker, Gerrit; and van der Veer, Franciscus A. A., 4,709,154, Cl. 250-551.000.
Raets, Hubert C., 4,642,750, Cl. 363-56.000.
Raets, Hubert C., 4,695,770, Cl. 315-207.000.
Raets, Hubert C., 4,700,083, Cl. 307-253.000.
Rammos, Emmanuel, 4,641,145, Cl. 343-798.000.
Rammos, Emmanuel, 4,644,362, Cl. 343-778.000.
Riffiod, Michel M. R., 4,679,049, Cl. 342-172.000.
Rijckaert, Josephus F.; and Sanders, Rudolf, 4,634,920, Cl. 313-318.000.
Robert, Serge; and Fevrier, Pierre, 4,665,480, Cl. 364-200.000.
Roger, Bernard P., 4,635,091, Cl. 357-67.000.
Roschmann, Peter, 4,698,595, Cl. 324-313.000.
Roschmann, Peter; and Simon, Howard E., 4,712,067, Cl. 324-318.000.
Rose, Michael A.; and Renals, Martin, 4,682,030, Cl. 250-338.000.
Rose, Michael A.; and Kidson, Paul, 4,704,533, Cl. 250-342.000.
Rosenthal, Manfred; and Roulaux, Jan, 4,707,714, Cl. 346-140.00R.
Rouws, Petrus L. A., 4,692,916, Cl. 369-75.200.
Roza, Engel; and Van Veenendaal, Hendrik G., 4,639,911, Cl. 370-69.100.
Roza, Engel; and Van Veenendaal, Hendrik G., 4,654,843, Cl. 370-20.000.
Roza, Engel; and Van Veenendaal, Hendrik G., 4,692,718, Cl. 331-113.00R.
Rudelle, Marie-Irene, 4,695,809, Cl. 331-117.00D.
Ruigrok, Jacobus J. M., 4,669,015, Cl. 360-119.000.
Ruyten, Henricus M., 4,656,321, Cl. 200-50.00C.
Sanders, Rudolf; and Rijckaert, Josephus F., 4,641,056, Cl. 313-51.000.
Sanders, Rudolf; and van Seggelen, Godefridus G., 4,687,965, Cl. 313-318.000.
Sanders, Rudolf, 4,714,858, Cl. 313-318.000.
Sanglier, Jean-Francois, 4,685,121, Cl. 379-90.000.
Sari, Hikmet; and Desperben, Lydie, 4,669,092, Cl. 375-14.000.
Schemmel, Hans R.; and Schonamsgruber, Hermann, 4,634,983, Cl. 328-28.000.
Schiller, Claude, 4,709,384, Cl. 378-76.000.
Schleimann-Jensen, Lars J.; and Anderson, Fred H. E., 4,714,214, Cl. 244-3.160.
Schmitz, Herman J. R.; Annegarn, Marcellinus J. J. C.; and Fekkes, Wilhelmus F., 4,679,083, Cl. 358-147.000.
Schofield, John, 4,659,955, Cl. 310-313.00D.
Schofield, John, 4,663,554, Cl. 310-313.00D.
Scholten, Gerard J.; Beurskens, Theodorus J. G.; and Videc, Mathias F., 4,683,654, Cl. 29-832.000.
Scholten, Gerard J.; Dieleman, Louis F. A.; and Blankers, Johannes M. M., 4,712,675, Cl. 206-332.000.
Schoofs, Franciscus A. C. M., 4,642,674, Cl. 357-23.800.

fs, Franciscus A. C. M.; Bierhoff, Martinus P. M.; Van Mil, F. P.; and Slomp, Albert H., 4,689,501, Cl. 307-362.000.
fs, Franciscus A. C. M.; Bierhoff, Martinus P. M.; Van Mil, F. P.; and Slomp, Albert H., 4,712,091, Cl. 340-347.0DA.
hamer Immink, Kornelis A., 4,641,128, Cl. 340-347.0DD.
hamer Immink, Kornelis A.; Aarts, Ronaldus M.; and Kahl, Josephus A. H. M., 4,660,097, Cl. 358-310.000.
nz, Hans, 4,660,188, Cl. 369-25.000.
der, Johann, 4,649,988, Cl. 165-10.000.
der, Johann; Gawron, Klaus; Bertram, Leo; and Schemmann, 4,709,752, Cl. 165-47.000.
ze, Michael, 4,716,373, Cl. 328-165.000.
ten, Evert D.; and Verlijsdonk, Johannus G., 4,716,335, Cl. 486.000.
ten, Evert D.; and Verlijsdonk, Johannus G., 4,716,336, Cl. 486.000.
ander, Eric C., 4,675,857, Cl. 369-59.000.
nck, Evert; Wassenaar, Roelof F.; and Holle, Eerke, 2,098, Cl. 323-315.000.
ra, Gerard, 4,661,951, Cl. 370-85.000.
ch, Bernd; and Vary, Peter, 4,682,361, Cl. 381-46.000.
ch, Bernd; and Vary, Peter, 4,700,394, Cl. 381-46.000.
rs, Arnoldus P. A. T., 4,652,923, Cl. 358-190.000.
jms, Adrianus P.; Severin, Petrus J. W.; and Van Bommel, nelus H. M., 4,698,084, Cl. 65-3.110.
on, John M.; Slatter, John A. G.; and Coe, David J., 46,115, Cl. 357-15.000.
e, Michael R., 4,634,276, Cl. 356-305.000.
e, Robin, 4,686,385, Cl. 307-261.000.
s, Peter J. M., 4,649,235, Cl. 379-348.000.
s, Peter J. M.; Otten, Henricus J. M.; and Van Der Plaats, rie J., 4,680,789, Cl. 379-395.000.
on, Dennis C. F., 4,686,431, Cl. 315-399.000.
oom, Jan W.; Maas, Henricus G. R.; Appels, Johannes A.; and assen, Francois M., 4,636,826, Cl. 357-24.000.
oom, Jan W.; Harwig, Hendrik A.; and Pelgrom, Marcellanus M., 4,669,100, Cl. 377-60.000.
er, Robert J.; and Kotmans, Hendrik J., 4,637,046, Cl. 49.000.
erman, Albertus A. S., 4,710,671, Cl. 313-413.000.
lers, Wouter, 4,651,025, Cl. 307-228.000.
, Albert; Greve, Peter F.; and 't Lam, Hendrik, 4,712,205, Cl. 45.000.
, Wigle F.; and Spaak, Willem E., 4,638,500, Cl. 378-109.000.
ders, Hendricus F. G.; Franken, Adrianus J. J.; Faber, Johan- W.; and Swinkels, Wouter H., 4,637,777, Cl. 414-751.000.
ders, Henricus W. W., 4,711,519, Cl. 350-96.200.
enberger, Paul, 4,689,655, Cl. 357-45.000.
, Alain, 4,688,864, Cl. 439-74.000.
nenburg, Lambertus; Duin, Peter B.; Woudsma, Roberto; and n der Poel, Arie A., 4,656,592, Cl. 364-490.000.
ings, Alphons F. E. B., 4,716,317, Cl. 307-520.000.
ings, Gijsbertus A. C. M.; and Van Hove, Eddy F. C., 666,871, Cl. 501-67.000.
ings, Gijsbertus A. C. M.; Krol, Denise M.; and Thomas, Gary , 4,680,503, Cl. 313-480.000.
ings, Gijsbertus A. C. M.; and Van Hove, Eddy F. C., 684,847, Cl. 313-493.000.
nhof, Frits A.; Welles, Petrus W. G.; Nuijten, Petrus A. C. M.; d van der Meer, Jan, 4,684,986, Cl. 358-148.000.
p, Walter, 4,653,783, Cl. 292-19.000.
voort, Eduard F.; van Roermund, Arthur H. M.; and Naus- ter J. A., 4,692,737, Cl. 340-347.0DD.
kdale, Trevor J., 4,634,277, Cl. 356-315.000.
kdale, Trevor J.; and Morley, Peter, 4,645,343, Cl. 356-32..000.
kdale, Trevor J.; and Morley, Peter, 4,669,879, Cl. 356-326.000.
t, Peter, 4,684,939, Cl. 340-784.000.
ppiana, Robert J., 4,675,560, Cl. 307-570.000.
ppiana, Robert J., 4,716,309, Cl. 307-442.000.
t, Johannes J., 4,705,965, Cl. 307-279.000.
uki, Yukio, 4,691,209, Cl. 369-38.000.
rte, Petrus A., 4,712,247, Cl. 381-96.000.
ken, Henricus T. J., 4,642,668, Cl. 357-36.000.
merijn, Franciscus M.; and Van Der Woord, Hugo, 4,658,339, 362-294.000.
, Sing L.; and Schreurs, Louis P. M., 4,636,335, Cl. 358-12.000.
ry, Alan J., 4,667,134, Cl. 315-366.000.
Velde, Ties S.; and Van de Venne, Joannes L. M., 4,681,403, Cl. 50-334.000.
nner, Gunther, 4,654,967, Cl. 29-860.000.
uwissen, Albert J. P.; Izushi, Munehisa; Jaspers, Cornelis A. M.; van de Steeg, Martinus J. H.; and Vermeulen, Arend J. W. ., 4,668,991, Cl. 358-227.000.
sse, Carel J., 4,675,998, Cl. 30-43.600.
ilays, Jacques C., 4,711,521, Cl. 350-96.200.
mmen, Werner F., 4,672,239, Cl. 307-353.000.
lemans, Leonardus P. M.; and Van Roemburg, Franciscus M. J., 678,348, Cl. 384-114.000.
lemans, Leonardus P. M., 4,696,584, Cl. 384-107.000.
ijens, Eduard W., 4,707,923, Cl. 30-346.510.
nmermans, Franciscus W. A.; and Kuiper, Bernardus A., 646,141, Cl. 358-50.000.
cher, Alessandro, 4,713,657, Cl. 340-748.000.
ffolo, Franco, 4,648,126, Cl. 455-212.000.
lksdorf, Wolfgang F. M.; Bartels, Inske E. H.; and Pross, Elke B., 4,707,058, Cl. 350-96.120.

Tolksdorf, Wolfgang F. M.; Bartels, Inske E. H.; Dammann, Hans O. B.; Klages, Claus-Peter; and Pross, Elke B., 4,712,855, Cl. 350-96.120.
Tomasi, Jean-Pierre, 4,642,608, Cl. 340-347.0DA.
Tomasi, Jean-Pierre, 4,668,954, Cl. 342-387.000.
Tomasi, Jean-Pierre, 4,679,047, Cl. 342-52.000.
Tomasi, Jean-Pierre, 4,680,722, Cl. 364-569.000.
Tramn, Jean-Pierre, 4,714,021, Cl. 102-401.000.
Turnbull, Andrew A., 4,704,534, Cl. 250-338.000.
Ubbens, Henricus D. U.; and Langeveld, Peer, 4,663,840, Cl. 29-853.000.
Uden, Edward, 4,649,418, Cl. 357-80.000.
Vanbrabant, Jean-Pierre C. R., 4,679,192, Cl. 370-85.000.
van Bruck, Heinrich E., 4,677,559, Cl. 364-431.050.
van de Grift, Robert E. J.; and van der Veen, Martien, 4,686,508, Cl. 340-347.0AD.
van den Berg, Adrianus H. M.; and Thompson-Russell, Kathryn C., 4,685,321, Cl. 72-347.000.
Van den Berk, Peter J. T.; Knol, Berend; and Dubois, Franciscus J. M., 4,663,145, Cl. 423-659.000.
van den Broek, Martinus H. L. M.; and Westra, Jan D., 4,705,985, Cl. 313-449.000.
Van den Brug, Lippe, 4,712,628, Cl. 177-211.000.
van de Plassche, Rudy J., 4,654,635, Cl. 340-347.0AD.
van de Plassche, Rudy J., 4,703,310, Cl. 340-347.0DA.
van de Polder, Leendert J., 4,652,904, Cl. 358-12.000.
van der Akker, Jouw; and Plagge, Joseph A. M., 4,652,984, Cl. 363-18.000.
Van Der Giessen, Aart A.; Van Der Hulst, Victor A.; and Janssen, Petrus J., 4,673,427, Cl. 65-2.000.
van der Heijden, Antonius W. F.; and Fleuren, Petrus A. M., 4,685,891, Cl. 445-36.000.
van der Hoorn, Gustaaf H. A.; van der Staak, Caspert G. I.; Lamberts, Joseph J. M.; and Schmitz, Johannes H. A., 4,660,930, Cl. 350-126.000.
Van der Lely, Piet, 4,645,075, Cl. 206-387.000.
van der Staak, Caspert G. I.; and van de Ven, Johannes C., 4,688,093, Cl. 350-128.000.
van der Vegte, Jan; and Hek, Dirk G., 4,684,212, Cl. 350-96.210.
Van der Velde, Hendrik S.; Schildbach, Klaus B.; and Van der Maaden, Johan, 4,666,244, Cl. 350-96.230.
van der Werf, Haye J. J.; and Kanters, Johannes T., 4,665,444, Cl. 360-38.100.
Van Der Wilk, Ronald, 4,669,994, Cl. 445-3.000.
van de Sluys, Willem L. N.; Pastoor, Jacobus; and Roelofs, Johannus C. M., 4,648,441, Cl. 165-111.000.
Van Deursen, Theodorus H. M.; and Wassink, Derk J. C., 4,641,367, Cl. 455-161.000.
van de Ven, Johannes, 4,666,248, Cl. 350-128.000.
Van de Venne, Joannes L. M., 4,674,842, Cl. 350-340.000.
Van Engelen, Petrus P. J.; and Buschow, Kurt H. J., 4,710,431, Cl. 428-457.000.
van Engen, Pieter G.; Buschow, Kurt H. J.; and Jongebreur, Ronald, 4,650,290, Cl. 350-376.000.
van Esdonk, Johannes, 4,645,966, Cl. 313-24.000.
van Esdonk, Johannes; van Hal, Henricus A. M.; and van Lith, Josef J., 4,671,777, Cl. 445-51.000.
Van Gils, Willibrordus J., 4,713,816, Cl. 371-38.000.
Van Herck, Andre J. B. M.; and Etman, Johannes G. W., 4,651,056, Cl. 313-623.000.
Van Hoof, Isidoor K.; and Aarts, Herman J. C. M., 4,711,824, Cl. 428-607.000.
van Hoof, Leonardus A. H., 4,708,763, Cl. 156-616.00R.
van Kampen, Jan, 4,672,324, Cl. 328-6.000.
van Koesveld, Jan L., 4,652,793, Cl. 313-468.000.
van Leeuwen, Antonie, 4,665,434, Cl. 358-25.000.
Van Leunen, Johannes A. J., 4,712,011, Cl. 250-361.00R.
van Lier, Johannes C., 4,677,500, Cl. 358-342.000.
van Loon, Gerardus M., 4,656,604, Cl. 364-900.000.
Van Meurs, Johannes M., 4,684,851, Cl. 315-224.000.
Van Meurs, Johannes M., 4,712,045, Cl. 315-224.000.
van Oirschot, Theodorus G. J., 4,653,057, Cl. 372-46.000.
Van Ommen, Alfred H., 4,653,176, Cl. 29-578.000.
Van Ooijen, Johannes A. C.; and Ruigrok, Jacobus J. M., 4,686,472, Cl. 324-252.000.
Van Roermund, Arthur H. M.; and Coppelmans, Petrus M. C., 4,691,171, Cl. 328-167.000.
van Roermund, Arthur H. M., 4,716,375, Cl. 329-50.000.
Van Rooij, Juliaan J. M. R., 4,669,022, Cl. 360-84.000.
Van Roosmalen, Alfred J.; and Van Arendonk, Anton P. M., 4,698,126, Cl. 156-643.000.
van Roosmalen, Johannes H. T., 4,659,964, Cl. 315-3.000.
van Rosmalen, Gerard E., 4,638,471, Cl. 369-46.000.
van Rumpt, Herman W.; and Razzell, Charles J. H., 4,638,263, Cl. 331-116.00R.
Van Rumpt, Herman W., 4,669,094, Cl. 375-88.000.
Van Rumpt, Herman W.; and Razzell, Charles J. H., 4,712,073, Cl. 328-160.000.
Van Ruyven, Lodewijk J.; and Williams, Ferd E., deceased, 4,644,553, Cl. 372-45.000.
Van Ruyven, Lodewijk J., 4,645,915, Cl. 235-473.000.
Van Sluys, Robert N. J., 4,661,944, Cl. 369-44.000.
van Sluys, Robert N. J., 4,679,185, Cl. 369-255.000.
Van Sprang, Hendrik A.; and De Vaan, Adrianus J. S. M., 4,664,483, Cl. 350-346.000.
Van Tol, Maurits W., 4,710,672, Cl. 313-413.000.

Van Tuijl, Adrianus J. M., 4,661,781, Cl. 330-255.000.
Van Uijen, Cornelis M. J., 4,691,162, Cl. 324-309.000.
Van Veldhoven, Gerardus A. W., 4,662,853, Cl. 445-3.000.
van Weert, Michael J. C.; and van Limpt, Gerardus C. S. W., 4,678,965, Cl. 313-451.000.
van Wijk, Franciscus J. A.; van Meerbergen, Jozef L.; Welten, Fransiscus P. J. M.; and Sluijter, Robert J., 4,689,738, Cl. 364-200.000.
Van Zanten, Adrianus T.; Veendrick, Hendrikus J. M.; Pfennings, Leonardus C. M. G.; and Gubbels, Wilhelmus C. H., 4,697,111, Cl. 307-482.000.
Van Zanten, Adrianus T., 4,705,966, Cl. 307-296.00R.
Varon, Jacques J.; Martin, Marie-Josephe; and Mahieu, Marc, 4,646,116, Cl. 357-17.000.
Veendrick, Hendrikus J. M.; Van Zanten, Adrianus T.; and Pfennings, Leonardus C. M. G., 4,707,844, Cl. 377-58.000.
Veit, Ernst-Ludwig; and Klee, Jurgen, 4,679,723, Cl. 228-168.000.
Verbunt, Johannes P. M., 4,713,297, Cl. 428-414.000.
Verhagen, Johannes P. C. M., 4,707,821, Cl. 369-292.000.
Verheul, Hans H.; and Matena, Jan, 4,698,814, Cl. 371-49.000.
Verhoeven, Leonardus A. J., 4,649,433, Cl. 358-244.000.
Vermeulen, Freddy J., 4,665,464, Cl. 361-293.000.
Vernooij, Marinus G.; and Daniels, John A. J., 4,644,226, Cl. 315-50.000.
Vietlledent, Gerard, 4,701,236, Cl. 156-252.000.
Vis, Benjamin, 4,683,702, Cl. 53-433.000.
Visser, Jan, 4,647,338, Cl. 156-643.000.
Vollenbroek, Franciscus A.; Dil, Jan G.; Kroon, Henricus J. J.; Spiertz, Elisabeth J.; and Nijssen, Wilhelmus P. M., 4,704,347, Cl. 430-312.000.
Vollmann, Norbert; and Mader, Leopold, 4,642,706, Cl. 360-74.300.
Voorman, Johannes O., 4,647,790, Cl. 307-264.000.
Vreeken, Roelof; De Niet, Edmond; and Rijckaert, Albert M. A., 4,689,577, Cl. 328-155.000.
Vreeswijk, Franciscus W. P.; and Tan, Sing L., 4,704,629, Cl. 358-142.000.
Vriens, Leendert; Spruit, Johannes H. M.; Rijpers, Johannes C. N.; and Brandsma, Titus E. C., 4,634,926, Cl. 313-474.000.
Vriens, Leendert; Spruit, Johannes H. M.; Rijpers, Johannes C. N.; and Brandsma, Titus E. C., 4,647,812, Cl. 313-474.000.
Vriens, Leendert; Clark, John A.; and Spruit, Johannes H. M., 4,683,398, Cl. 313-474.000.
Vrieze, Wubbe, 4,636,686, Cl. 313-565.000.
Vrijssen, Gerardus A. H. M.; and Van Gorkum, Aart A., 4,684,994, Cl. 358-217.000.
Vrijssen, Gerardus A. H. M., 4,710,673, Cl. 313-477.00R.
Vrijssen, Gerardus A. H. M., 4,713,879, Cl. 29-620.000.
Wagenaar, Kornelis J., 4,695,865, Cl. 357-41.000.
Wagenmakers, Johannes, 4,639,620, Cl. 307-446.000.
Ward, Rodney, 4,634,874, Cl. 250-492.200.
Ward, Rodney, 4,652,762, Cl. 250-492.200.
Ward, Rodney; and Lewin, Ian H., 4,665,463, Cl. 361-234.000.
Ward, Rodney, 4,695,732, Cl. 250-492.200.
Ward, Rodney, 4,705,956, Cl. 250-492.200.
Wardenaar, Hendrik C.; and Kuppens, Bernardus J., 4,644,642, Cl. 29-834.000.
Warmuth, Otto L.; Johanndeiter, Martin H.; and Raven, Johannes G., 4,710,802, Cl. 358-25.000.
Weistra, Marten P., 4,696,568, Cl. 356-28.500.
Whight, Kenneth R., 4,707,719, Cl. 357-53.000.
White, Philip D., 4,703,324, Cl. 340-825.140.
Widmer, David S.; and Churchill, John E., 4,647,200, Cl. 356-312.000.
Williams, Ferd E., 4,644,378, Cl. 357-17.000.
Wittekoek, Stefan; and Bouwer, Adrianus G., 4,655,594, Cl. 356-363.000.
Wolfstieg, Ulrich M. E. A., 4,691,334, Cl. 378-71.000.
Wolter, Joachira H., 4,677,457, Cl. 357-56.000.
Wondergem, Willem, 4,661,968, Cl. 378-79.000.
Wouda, Kornelis J.; and Reijntjens, Wilhelmus J. M., 4,709,378, Cl. 375-110.000.
Wrana, Josef B. V., 4,679,483, Cl. 89-1.510.
Zandveld, Frederik; and Visser, Jeroen M., 4,695,944, Cl. 364-200.000.
Zeile, Heinrich; and Witt, Hartmut, 4,670,731, Cl. 338-225.00D.
Zijlstra, Hinne, 4,639,673, Cl. 324-319.000.
Zijlstra, Hinne, 4,695,802, Cl. 324-319.000.
Zoetman, Herman; and Verbeek, Robert J. M., 4,686,482, Cl. 328-164.000.

United States Pipe and Foundry Company: *See*—
Jones, Lawrence S.; and Battle, Billy J., 4,660,866, Cl. 285-231.000.
Jones, Lawrence S., 4,685,705, Cl. 285-177.000.

U.S. Precision Lens, Inc.: *See*—
Betensky, Ellis I., 4,697,892, Cl. 350-432.000.
Betensky, Ellis I., 4,707,084, Cl. 350-432.000.
Moskovich, Jacob, 4,682,862, Cl. 350-432.000.
Moskovich, Jacob, 4,685,774, Cl. 350-432.000.

U.S. Product Development Company: *See*—
Adell, Robert, 4,639,948, Cl. 2-338.000.
Adell, Robert, 4,658,523, Cl. 40-1.000.
Adell, Robert, 4,674,233, Cl. 49-462.000.
Adell, Robert, 4,677,790, Cl. 49-462.000.
Adell, Robert, 4,679,290, Cl. 29-407.000.
Adell, Robert, 4,682,415, Cl. 29-846.000.
Adell, Robert, 4,682,442, Cl. 49-462.000.
Adell, Robert, 4,697,327, Cl. 29-527.400.
Adell, Robert, 4,709,525, Cl. 52-718.100.

United States Steel Corporation: *See*—
Bogdan, Eugene A.; and Silverman, Eugene N., 4,657,584, Cl. 75-5.000.
Cole, T. Phillip, Jr., 4,650,502, Cl. 55-70.000.
Ehrig, Raymond J.; and Godfrey, John J., 4,634,745, Cl. 526-87.000.
Grove, John A., 4,679,614, Cl. 164-436.000.
Hamill, Paul E., Jr.; and Vance, Macy W., 4,683,937, Cl. 164-125.000.
Howell, John L.; McGreal, Joseph E., Jr.; Nemeth, Edward J.; Waslo, Stephen; and Feinman, Jerome, 4,686,090, Cl. 423-244.000.
Polansky, Jon L.; Rice, Douglas N.; Tomcanin, William J.; and Cribbs, Timothy B., 4,692,216, Cl. 201-1.000.
Rueckl, Roger L., 4,695,323, Cl. 106-85.000.
Thompson, James E., 4,651,578, Cl. 74-41.000.
Wrhen, Wilmer C., 4,651,802, Cl. 164-436.000.

United States Supply Company: *See*—
Maker, Lewis W.; and Nicholson, Horace, 4,678,084, Cl. 206-597.000.

United States Surgical Corporation: *See*—
Green, David T., 4,665,916, Cl. 128-334.00R.
Green, David T., 4,714,187, Cl. 227-19.000.
Korthoff, Herbert W.; and Green, David T., 4,667,674, Cl. 128-334.00C.
Noiles, Douglas G., 4,646,745, Cl. 128-334.00R.
Roehr, William H., Jr.; and Goodman, Richard L., 4,715,520, Cl. 227-19.000.

United States Tobacco Company: *See*—
Jurczenia, Edward; and Adams, Alton W., 4,646,933, Cl. 220-366.000.
Paules, Eugene H., 4,657,622, Cl. 156-361.000.
Paules, Eugene H.; and Nastro, Frank S., 4,703,765, Cl. 131-112.000.
Paules, Eugene H., 4,711,687, Cl. 156-235.000.

U.S. Tool & Die Co., Inc.: *See*—
Wachter, William J., 4,666,660, Cl. 376-272.000.
Wachter, William J., 4,704,247, Cl. 376-261.000.
Wachter, William J., 4,714,583, Cl. 376-261.000.

U.S. Vanadium Corporation: *See*—
Goddard, John B., 4,640,823, Cl. 423-68.000.
Hansen, Donald J.; Goddard, John B.; and Mafacarne, Oreste J., 4,666,512, Cl. 75-101.00R.

U.S. Video: *See*—
Medin, David L., 4,670,785, Cl. 358-149.000.

United States Water Mattress Co: *See*—
Alexander, Bruce H.; and Malik, Iftakhar, 4,656,681, Cl. 5-451.000.

U.S. West Enterprises, Inc.: *See*—
Grant, Michael L., 4,673,771, Cl. 174-38.000.

United Steel Products Company: *See*—
Sielaff, Ulrich; and Hamel, David O., 4,713,923, Cl. 52-713.000.

United Steel & Wire Company: *See*—
Nicely, Charles W., 4,637,323, Cl. 108-107.000.

United Stirling AB: *See*—
Bratt, Jan C., 4,665,700, Cl. 60-517.000.

United Technologies Automotive, Inc.: *See*—
Bowers, Daniel W.; and Wisser, Donald L., 4,656,086, Cl. 428-309.900.
Douglas, William A., 4,680,316, Cl. 521-89.000.
Douglas, William A., 4,693,772, Cl. 156-79.000.
Ellison, Donald E., 4,638,282, Cl. 336-185.000.
Floyd, William M.; and Juzswik, David L., 4,639,609, Cl. 307-10.00R.
Harrison, Bruce L.; and Wall, Richard J., 4,693,775, Cl. 156-272.400.
Juzswik, David L.; and Lahiff, John E., 4,663,575, Cl. 318-444.000.
Juzswik, David L., 4,705,997, Cl. 318-341.000.
Kulis, Lawrence J., 4,664,865, Cl. 264-320.000.
Lorenz, Jerome L., 4,689,882, Cl. 30-90.100.
Maue, H. Winston; Henderson, Brian E.; and Szudarek, Robert G., 4,689,718, Cl. 361-360.000.
Prokop, Raymond A., 4,682,136, Cl. 335-282.000.
Rahrig, Thomas F.; and Hall, Thomas E., 4,690,478, Cl. 439-271.000.
Resslar, John J., 4,665,738, Cl. 73-104.000.
Tinder, David V., 4,707,726, Cl. 357-81.000.
Webb, Nathaniel; and Juzswik, David L., 4,706,194, Cl. 364-424.000.
Wodnicki, Glen G.; and Czarnecki, Carl, 4,701,581, Cl. 200-52.00R.

United Technologies Automotive Trim, Inc.: *See*—
Mtangi, Stanlake A.; and Fishman, David H., 4,647,324, Cl. 156-62.200.

United Technologies Corporation: *See*—
Adam, Colin M., 4,647,321, Cl. 148-415.000.
Albano, Rocco V.; and Durej, Ronald G., 4,646,324, Cl. 375-38.000.
Anderson, Roy W.; Ross, Stephen J.; and Henderson, Larry D., 4,715,723, Cl. 366-142.000.
Arrigoni, John P.; and Carlson, Kenneth C., 4,644,701, Cl. 51-241.00S.
Auxier, Thomas A.; Anderson, Leon R.; and Hill, Edward C., Jr., 4,664,597, Cl. 416-97.00R.
Auxier, Thomas A.; and Field, Robert E., 4,676,719, Cl. 416-97.00R.
Banas, Conrad M.; and Doyle, Brian M., 4,691,093, Cl. 219-121.0LC.

Walter J., Jr.; Chaplin, Gary F.; and Laurello, Vincent P., ,792, Cl. 415-139.000.
rn, Martin J.; and Smith, Michael P., 4,716,020, Cl. 18.000.
Charles R.; and Fowler, Frank L., 4,658,579, Cl. 6.100.
d, Michael P.; Parkinson, Gerald W.; and Grant, Ross M., ,175, Cl. 307-64.000.
d, Michael P.; and Maciolek, Joseph R., 4,678,401, Cl. 2.000.
n, John J.; and Novak, Richard C., 4,704,332, Cl. 28.000.
, Robert F.; and Laurello, Vincent P., 4,653,267, Cl. 9.020.
Edgar E.; and Hatala, Robert W., 4,662,951, Cl. 148-13.000.
, Wayne M.; Neal, William F.; and Schwarz, Frederick M., 7,981, Cl. 415-104.000.
Richard L.; and Ratchford Michael, 4,682,292, Cl. 424.000.
Donald N.; Danilowicz, Paul S.; Franz, Thomas C.; Mor-r, Thomas P.; and Pero, Edward B., 4,696,156, Cl. 60-39.080.
Paul M., 4,696,431, Cl. 239-265.150.
, Francis E.; Ferris, Donald L.; and Olsen, Eric G., 6,669, Cl. 384-221.000.
, Francis E.; Ferris, Donald L.; Hibyan, Edward S.; No-n, William L.; and Ogle, Peter C., 4,714,450, Cl. 464-90.000.
, Eugene; and Farrand, Thomas A., 4,701,105, Cl. 95.000.
i, Anthony, Jr., 4,687,952, Cl. 307-261.000.
Richard T.; and Blackaby, Barry G., 4,654,640, Cl. 568.000.
Richard T.; and Blackaby, Barry G., 4,688,183, Cl. 554.000.
ll, Brian L.; and Selleck, Robert A., 4,655,416, Cl. 121.000.
llo, Paul A., 4,693,672, Cl. 416-174.000.
re, Donald K., 4,655,248, Cl. 137-528.000.
re, Donald K.; Hoyt, Halfen L.; and Hurchalla, James, 9,893, Cl. 384-99.000.
n, Gary F., 4,655,683, Cl. 415-137.000.
Peter K., 4,693,549, Cl. 350-96.140.
Peter K.; and Gilden, Meyer, 4,707,060, Cl. 350-96.140.
Herbert A., 4,702,782, Cl. 148-429.000.
rn, Robert E.; and Matthews, John A., 4,640,392, Cl. 39.360.
rn, Robert E.; and Matthews, John A., 4,686,823, Cl. 39.320.
er, Adriaan, 4,672,955, Cl. 128-80.00F.
Harold M.; and Feder, Ernest, 4,650,399, Cl. 416-97.00R.
, Preston S.; and Arendale, William F., 4,678,328, Cl. -141.000.
n, Donald E., 4,676,104, Cl. 73-516.00R.
k, Michael D., 4,711,700, Cl. 156-651.000.
n, Donald A.; Strife, James R.; and Swindal, James L., 86,684, Cl. 372-99.000.
aria, Anthony J.; and Reeder, Thomas M., 4,663,746, Cl. 7-119.000.
psey, Russell M.; Fragala, Anthony R.; LaConti, Anthony B.; l Enos, John F., 4,707,229, Cl. 204-129.000.
ison, William T.; and Brodell, Robert F., 4,704,862, Cl. 226.200.
berger, James A.; and Tumicki, Thomas F., 4,655,044, Cl. -753.000.
er, James R., 4,685,660, Cl. 269-7.000.
alentin, Eugene D.; and Healy, Henry S., 4,703,189, Cl. 0-44.000.
erry, James E.; and Nessler, Charles G., 4,663,241, Cl. 8-547.000.
an, Glidden S.; Kos, Joseph M.; Harner, Kermit L.; DiValen-, Eugene D.; and Healy, Henry S., 4,695,736, Cl. 290-44.000.
phy, James R.; Meltz, Gerald; and Snitzer, Elias, 4,653,906, Cl. 6-32.000.
r, Gerald P., 4,637,420, Cl. 137-242.000.
rt, Frederick; Silder, Stephen H.; and Beims, Michael A., 655,414, Cl. 244-75.00R.
breth, Alan C., 4,660,932, Cl. 350-171.000.
breth, Alan C.; and Stufflebeam, John H., 4,705,367, Cl. 0-572.000.
l, Frederick G.; and Jaeger, Robert G., 4,657,361, Cl. 0-633.000.
, Robert L.; Walker, William J.; Ramey, Philip; Adams, enneth M.; Flone, Nicholas P.; and Nguyen, Dean, 4,681,724, l. 264-257.000.
ris, Donald L.; and Matuska, David G., 4,645,423, Cl. 16-140.000.
ris, Donald L.; and Heise, Herbert, 4,668,115, Cl. 403-24.000.
ris, Donald L.; Gendreau, Johnny P.; and Korzun, Alexander, 688,993, Cl. 416-114.000.
ld, Robert E., 4,650,949, Cl. 219-69.00E.
ld, Robert E., 4,672,727, Cl. 29-156.80B.
ld, Robert E., 4,684,323, Cl. 416-97.00R.
ld, Thomas T.; Murrin, Thomas A.; and Ault, Earle A., ,708,750, Cl. 148-11.50N.
urnier, Joseph T., Jr.; and Swarts, Richard E., 4,703,287, Cl. 32-7.510.

Fradenburgh, Evan A.; Kiely, Edmond F.; and Miller, Gordon G., 4,648,800, Cl. 416-134.00A.
Fradenburgh, Evan A., 4,655,685, Cl. 416-90.00A.
Fucci, Robert C., 4,700,544, Cl. 60-757.000.
Galasso, Francis S.; and Veltri, Richard D., 4,671,997, Cl. 428-408.000.
Glomb, Walter L., Jr., 4,655,560, Cl. 350-611.000.
Grudkowski, Thomas W.; and Montress, Gary K., 4,661,923, Cl. 364-821.000.
Gruss, Alder R.; and Shapiro, Theodore A., 4,634,603, Cl. 427-96.000.
Gruver, Gary A.; and Kanz, Harold R., 4,636,274, Cl. 156-279.000.
Guthrie, Richard; McDonald, Thomas B., III; and Anafi, David, 4,664,517, Cl. 356-138.000.
Hansen, Kenneth P., 4,646,774, Cl. 137-110.000.
Harner, Kermit L.; Schneider, Roy W.; and Harris, Mark L., 4,653,981, Cl. 416-34.000.
Harner, Kermit L.; Niessen, Frank R.; and Sherman, Robert, 4,656,362, Cl. 290-44.000.
Harris, Harold S., 4,688,378, Cl. 60-39.320.
Hetzer, Frederick C.; and Miller, Guy W., 4,685,286, Cl. 60-39.020.
Heynau, Hans A., 4,700,351, Cl. 372-13.000.
Hibner, David H., 4,657,410, Cl. 384-99.000.
Hmelovsky, Michael W.; and Tedeschi, Rinaldo R., 4,707,791, Cl. 364-431.040.
Hodgens, Henry M., II; and Cellich, William A., 4,713,120, Cl. 134-3.000.
Holler, Richard P.; and McMath, Connie W., 4,643,356, Cl. 239-13.000.
Honeycutt, Fred L., Jr.; and Middleton, Robert G., 4,645,217, Cl. 277-230.000.
Honeycutt, Fred L., Jr., 4,662,566, Cl. 239-265.390.
Horgan, John J., 4,696,159, Cl. 60-226.100.
Hovan, Edward J.; and Zimonis, Joseph P., 4,645,415, Cl. 415-115.000.
Howland, Gary R., 4,695,952, Cl. 364-200.000.
Hyland, James F., Jr., 4,688,427, Cl. 73-460.000.
Jacaruso, Gary J., 4,680,216, Cl. 428-116.000.
Kalogeros, Robert R.; and Chaplin, Gary F., 4,659,285, Cl. 416-95.000.
Kalogeros, Robert R., 4,659,289, Cl. 416-198.00A.
Kalogeros, Robert R., 4,669,959, Cl. 416-221.000.
Kay, Bruce F., 4,687,691, Cl. 428-73.000.
Kay, Ira W.; and Lehrach, Ronald P. C., 4,691,288, Cl. 364-511.000.
Kenison, David F.; and Lynn, David G., 4,655,034, Cl. 60-39.290.
Kepple, Dean A., 4,681,434, Cl. 356-45.000.
Kesten, Arthur S.; Haught, Alan F.; and Couch, Harold T., 4,712,610, Cl. 165-104.120.
Kish, Jules G., 4,690,390, Cl. 267-155.000.
Koczarski, Jack B., 4,678,378, Cl. 408-46.000.
Kos, Joseph M.; and Rapp, Allen F., 4,700,081, Cl. 290-44.000.
Kovaleski, Stanley K., 4,648,485, Cl. 184-13.100.
Kromrey, Robert V., 4,652,476, Cl. 428-36.000.
Kromrey, Robert V., 4,662,964, Cl. 156-184.000.
Kubick, Frederick, 4,636,799, Cl. 343-754.000.
Kubick, Frederick, 4,639,093, Cl. 350-388.000.
Kubick, Frederick, 4,706,094, Cl. 343-754.000.
Kunz, Cleon V., and Jones, Dennis H., 4,655,682, Cl. 415-119.000.
Kunz, Cleon V., 4,684,320, Cl. 415-190.000.
Kusiak, Edward H., 4,644,852, Cl. 92-151.000.
Laurello, Vincent P., 4,643,638, Cl. 415-136.000.
Levinson, Samuel, 4,656,438, Cl. 330-287.000.
Madden, William M., 4,690,329, Cl. 239-265.190.
Mainelli, Roy J.; and Preston, Donald, 4,715,395, Cl. 138-42.000.
Malley, David R., 4,654,091, Cl. 148-13.100.
Mandello, Mark F., 4,654,844, Cl. 370-32.000.
Marchitto, Michael J.; and Bocciarelli, Louis R., 4,695,226, Cl. 416-106.000.
Martin, Anthony N., 4,648,797, Cl. 416-27.000.
Matthews, John A.; Striebel, Edmund E.; Sepulveda, Domingo and Pane, Francis C., Jr., 4,677,828, Cl. 60-751.000.
Matuska, David G.; and Fradenburgh, Evan A., 4,666,753, Cl. 428-137.000.
Matuska, David G., 4,695,340, Cl. 156-161.000.
Matuska, David G.; and Fredenburgh, Evan A., 4,695,341, Cl. 156-161.000.
McBrien, Gregory J.; and Swarts, Richard E., 4,661,753, Cl. 318-689.000.
McComas, Charles C.; and Stewart, Dennis C., 4,705,203, Cl. 228-119.000.
McElroy, James F., 4,649,091, Cl. 429-34.000.
McElroy, James F.; Chludzinski, Paul J.; and Dantowitz, Philip, 4,657,829, Cl. 429-19.000.
McElroy, James F., 4,678,724, Cl. 429-34.000.
McLaughlin, Peter W.; Spock, Wayne R.; and Kenison, David F., 4,651,518, Cl. 60-39.020.
McLean, Howard J., 4,685,863, Cl. 416-95.000.
Merritt, Sears W.; Grudkowski, Thomas W.; and Montress, Gary K., 4,656,601, Cl. 364-821.000.
Moffatt, E. Marston; and Swarts, Richard E., 4,660,417, Cl. 73-505.000.
Morrison, Robert L., Jr., 4,645,425, Cl. 416-215.000.
Murphy, Richard D.; and Fischer, William C., 4,691,315, Cl. 371-9.000.
Neal, William F.; and Stevens, Leonard W., 4,668,164, Cl. 415-116.000.

Newman, Leon A.; and DeMaria, Anthony J., 4,688,228, Cl. 372-18.000.
Niessen, Frank R., and Schneider, Roy W., 4,659,283, Cl. 416-34.000.
Nighan, William L.; Tittel, Frank K.; and Wilson, William L., Jr., 4,646,311, Cl. 372-60.000.
Nighan, William L.; Tittel, Frank K.; and Wilson, William L., Jr., 4,660,210, Cl. 372-60.000.
Nighan, William L.; and Otter, Fred A., Jr., 4,703,229, Cl. 315-169.400.
Nutter, Harry A., Jr., 4,648,921, Cl. 156-77.000.
Olesen, Ole L., 4,661,323, Cl. 422-197.000.
Olsen, Howard, 4,688,988, Cl. 415-116.000.
Orecchio, Nicholas L., 4,665,616, Cl. 30-90.400.
Otfinoski, William F.; Eaton, Harry E.; and Novak, Richard C., 4,664,973, Cl. 428-307.300.
Pennell, John D., 4,651,130, Cl. 340-347.0SY.
Percival, William A.; and Stoltze, Leon, 4,693,435, Cl. 244-91.000.
Perra, Raymond C.; Wilmot, Stephen B.; and Games, John E., 4,638,430, Cl. 364-300.000.
Peters, Gary P., 4,645,424, Cl. 416-198.00A.
Pettit, Harold W., Jr.; Davis, Charles G.; and Walden, Frederick C., 4,696,855, Cl. 428-312.800.
Phillips, James S.; and Field, Robert E., 4,669,957, Cl. 416-97.00R.
Picone, John D.; and Cronauer, Edward A., 4,684,821, Cl. 307-106.000.
Pike, Roscoe A., 4,678,820, Cl. 523-200.000.
Pike, Roscoe A., 4,689,242, Cl. 427-34.000.
Prario, Aldo, 4,687,413, Cl. 415-190.000.
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Puffer, Leroy G.; and Erf, Robert K., 4,705,957, Cl. 250-56.00B.
Putman, Robert L.; and Dinse, Merle L., 4,648,241, Cl. 60-39.290.
Ratchford, Michael; Versailles, Richard E.; and Brown, Edward R., 4,646,241, Cl. 364-424.000.
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Robbins, Donald A., 4,653,984, Cl. 416-198.00A.
Robbins, Donald A.; and Knotek, William R., deceased, 4,664,590, Cl. 416-198.00A.
Roberge, Gary D., 4,667,774, Cl. 184-6.120.
Robinson, Ronald L.; and Honeycutt, Fred L., Jr., 4,690,330, Cl. 239-265.390.
Ryan, Edward J., 4,700,881, Cl. 228-194.000.
Sahm, Michael K.; and Milano, Robert, 4,705,455, Cl. 416-97.00R.
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Schmidt, Samuel, 4,678,991, Cl. 324-207.000.
Schneider, Roy W.; and Harris, Mark L., 4,669,058, Cl. 364-148.000.
Schwarz, Frederick M.; and Griffin, James G., 4,708,588, Cl. 415-115.000.
Sharon, Harold M., 4,639,991, Cl. 29-156.80B.
Shnitkin, Harold; and Green, Julius, 4,638,323, Cl. 343-771.000.
Shuskus, Alexander J., 4,706,377, Cl. 437-24.000.
Spock, Wayne R.; and Meisner, Richard P., 4,639,885, Cl. 364-574.000.
Spock, Wayne R.; and Urbanik, Peter J., 4,641,517, Cl. 73-116.000.
Stearns, Charles F., 4,646,624, Cl. 92-37.000.
Stearns, Charles F., 4,715,397, Cl. 137-84.000.
Stetson, Karl A.; and Palecki, John, 4,639,593, Cl. 250-227.000.
Stevens, Leonard W.; Siwik, William S.; Moore, William A.; Brown, Wayne M.; and Barnard, Andrew A., 4,709,545, Cl. 60-39.080.
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Suarez-Gonzalez, Ernesto, 4,666,297, Cl. 356-45.000.
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Suciu, Gabriel L., 4,687,346, Cl. 384-99.000.
Suciu, Gabriel L., 4,715,779, Cl. 415-144.000.
Swarts, Richard E.; Moffatt, E. Marston; and Lopiccolo, Mario T., 4,714,815, Cl. 219-121.0LC.
Sziklas, Edward A.; and Palma, Gary E., 4,682,339, Cl. 372-95.000.
Terkelsen, Bruce E., 4,714,101, Cl. 164-122.200.
Thayer, Edward B.; and Ward, Eric J., 4,714,197, Cl. 239-265.290.
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Tulpule, Bhalchandra R.; Oscarson, Edward M.; and Vosgien, David J., 4,696,019, Cl. 375-107.000.
Vehr, James W., 4,653,983, Cl. 416-97.00R.
Veltri, Richard D.; and Galasso, Francis S., 4,652,183, Cl. 407-119.000.
Vesce, Richard V.; and Torres, John R., 4,649,467, Cl. 363-41.000.
Vontell, John H.; and Pike, Roscoe A., 4,680,199, Cl. 427-199.000.
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Weindling, Frederik, 4,706,089, Cl. 342-25.000.
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United Technologies Electro Systems, Inc.: *See*—
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Stewart, Kenneth W., Sr., 4,694,214, Cl. 310-239.000.
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United Water Resources, Inc.: *See*—
Reiter, Stuart L., 4,684,920, Cl. 340-310.00A.

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Ogasawara, Isamu; Maekawa, Kiyotsugu; Tomioka, Hiroyuki; and Furukawa, Shinji,,4,657,605, Cl. 148-304.000.
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mstutz, Harlan C.; and Kabo, J. Michael, 4,715,860, Cl.
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Hollander, Daniel; and Tarnawski, Andrzej S., 4,670,468, Cl. 514-560.000.
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Wudl, Fred; Kobayashi, Masao; and Heeger, Alan, 4,640,748, Cl. 204-59.00R.

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Hall, Ernest L.; and Ehtashami, Mohammad, 4,670,648, Cl. 250-216.000.
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Pearl, David S., II; Webb, Louis H., III; and Kocell, Stephen B., 4,661,057, Cl. 431-243.000.

Unjo, Naoki; and Fuke, Takamichi, to Alps Electric Co., Ltd. Motor air gap bearing arrangement. 4,659,952, 4-21-87, Cl. 310-90.000.

Unland, Georg; and Driemeier, Gunter, to Krupp Polysius AG. Method and apparatus for the production of cement clinker with a low alkali content. 4,667,886, 5-26-87, Cl. 241-23.000.

Unland, Stefan: *See*—
Bonitz, Jorg; Entenmann, Robert; Miller, Bernhard; Rauch, Hans; Rohde, Siegfried; Unland, Stefan; and Viess, Walter, 4,700,677, Cl. 123-425.000.

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Unnam, Jalaiah; and Clark, Ronald K., to United States of America, National Aeronautics and Space Administration. Oxygen diffusion barrier coating. 4,681,818, 7-21-87, Cl. 428-607.000.

Unno, Hiroaki, to Tokyo Shibaura Denki Kabushiki Kaisha. Apparatus for determining the type and remaining capacity of a tape. 4,644,436, 2-17-87, Cl. 360-137.000.

Unno, Mahito; and Yamamoto, Katsuhiro, to Mitsubishi Denki Kabushiki Kaisha. Speed detecting device. 4,689,539, 8-25-87, Cl. 318-594.000.

Unno, Shohei; Nakakawazi, Mikio; and Suzuki, Kazufumi, to Tokyo Electric Co., Ltd. Display apparatus. 4,692,760, 9-8-87, Cl. 340-756.000.

Unno, Tetsuji: *See*—
Horiki, Seinosuke; Makino, Reiji; Ito, Kuninori; and Unno, Tetsuji, 4,714,633, Cl. 427-282.000.

Uno, Akira; Ninohira, Akira; and Noda, Touru, to Mitsubishi Paper Mills, Ltd. Process for producing photographic master batch and process for producing photographic resin coated paper. 4,650,747, 3-17-87, Cl. 430-536.000.

Uno, Eiichi: *See*—
Morino, Seiji; Uno, Eiichi; and Yoshitani, Yoshihiro, 4,641,626, Cl. 123-620.000.

Uno, Haruhiko: *See*—
Imoto, Yuzo; Takei, Toshihiro; Hattori, Yoshiyuki; Uno, Haruhiko; Inagaki, Mitsuo; and Takeda, Kenji, 4,705,323, Cl. 303-116.000.

Uno, Hitoshi: *See*—
Kadokawa, Toshiaki; Kawashima, Katsuyoshi; Uno, Hitoshi; and Hino, Katsuhiko, 4,677,107, Cl. 514-254.000.
Matsumoto, Jun-ichi; Miyamoto, Teruyuki; Uno, Hitoshi; and Nakamura, Shinichi, 4,649,144, Cl. 514-300.000.

Uno, Kiyotaka: *See*—
Kondo, Kiyoshi; Kataoka, Fukuhiko; and Uno, Kiyotaka, 4,700,817, Cl. 188-380.000.

Uno, Kunihiko; Nakazato, Kunihiro; Nishigaki, Masahide; Hirotomi, Hajime; Kimura, Shigeo; Kurihara, Sadao; Tanaka, Hideo; Mitara, Jiro; and Takai, Kiyoaki, to Kabushiki Kaisha Takuma; and Nihon Jukagaku Kogyo Kabushiki Kaisha. Continuous melt electric furnace with continuous discharge. 4,639,927, 1-27-87, Cl. 373-84.000.

Uno, Kunihiko; Tamade, Yoshinori; Horino, Seiya; and Kodera, Tamotsu, to Kabushiki Kaisha Takuma. Explosion preventive rotation crusher. 4,712,741, 12-15-87, Cl. 241-16.000.

Uno, Masahiro; and Tanaka, Takeo, to Fuji Electric Corporate Research and Development Co., Ltd.; and Fuji Electric Co., Ltd. Optical gas densitometer. 4,651,004, 3-17-87, Cl. 250-343.000.

Uno, Masaru: *See*—
Haruna, Kazuo; Ueda, Kanji; and Uno, Masaru, 4,684,377, Cl. 55-26.000.

Uno, Masatoshi, to Kabushiki Kaisha Nagaoka. Cleaning disket with internal paths for cleaning liquid. 4,639,813, 1-27-87, Cl. 360-128.000.

Uno, Motoo: *See*—
Tsuyoshi, Toshiaki; Yonezawa, Seiji; Kasai, Masuo; and Uno, Motoo, 4,710,909, Cl. 369-46.000.

Uno, Nobuyoshi; Isa, Takayoshi; Kurata, Eijiro; and Tamasaki, Hideto-shi, to Nippon Steel Corporation; and Nippon Steel Bolten Co., Ltd. Prefastenable torque-shear bolt. 4,659,267, 4-21-87, Cl. 411-5.000.

Uno, Sakae: *See*—
Iwai, Shinichi; and Uno, Sakae, 4,710,806, Cl. 358-81.000.

Uno, Tadao. Paper sheet manipulator. 4,647,265, 3-3-87, Cl. 414-115.000.

Uno, Takaaki, to Nissan Motor Co., Ltd. Four wheel steer system with fail-safe control. 4,687,214, 8-18-87, Cl. 280-91.000.

Uno, Takaaki; Dan, Takuya; and Orikawa, Michihiro, to Nissan Motor Co., Ltd.; and Bridgestone Corporation. Vibration insulator. 4,702,346, 10-27-87, Cl. 181-207.000.

Uno, Takaaki: *See*—
Shibahata, Yasuji; Tsubota, Yasumasa; and Uno, Takaaki, 4,640,379, Cl. 180-140.000.

Uno, Tetsuya: *See*—
Ishii, Kazuhiro; Uno, Tetsuya; Kato, Masaki; and Kobayshi, Masao, 4,707,460, Cl. 502-26.000.

Uno, Toshihiko: *See*—
Taga, Yutaka; Morisawa, Kunio; Uno, Toshihiko; Ito, Masami; and Haneda, Takashi, 4,669,562, Cl. 180-53.100.

Uno, Toshio; Taguchi, Masahiro; Okuno, Toshimi; Kondo, Hirosato; Sotomura, Mikio; and Tsukamoto, Goro, to Kanebo, Ltd. Quinoline-carboxylic acid compounds and antimicrobial agent containing the same. 4,686,221, 8-11-87, Cl. 514-254.000.

Unold, Gerhard: *See*—
Biber, Klaus; and Unold, Gerhard, 4,715,704, Cl. 351-207.000.

Unrath, Dieter: *See*—
Wehle, Anton; Unrath, Dieter; and Zimmermann, Gunther, 4,693,005, Cl. 30-383.000.

Unroe, Marilyn R.; Reinhardt, Bruce A.; and Arnold, Fred E., to United States of America, Air Force. Phenylquinoxaline resin compositions. 4,667,002, 5-19-87, Cl. 526-259.000.

Unroe, Marilyn R.; Reinhardt, Bruce A.; and Arnold, Fred E., to United States of America, Air Force. Phenylquinoxaline resin monomers. 4,683,309, 7-28-87, Cl. 544-353.000.

Unrug, Konstanty F.; Thompson, Edward D.; and Nandy, Samir K. Roof bolt assembly having a sealing plug for preventing a deterioration of the mine roof. 4,693,638, 9-15-87, Cl. 405-259.000.

Unruh, Ralph E.: *See*—
Miller, Jesse D., Jr.; Tshudy, James A.; and Unruh, Ralph E., 4,689,259, Cl. 428-142.000.

Untch, Frederick M.: *See*—
Gerber, David W.; and Untch, Frederick M., 4,705,098, Cl. 165-4.000.

Unterborn, Ralph D.: *See*—
Angi, Donald F.; Savage, Jack W.; and Unterborn, Ralph D., 4,659,951, Cl. 310-62.000.

Untereker, Darrel F.: *See*—
Meyerhoff, Mark E.; Fogt, Eric J.; and Untereker, Darrel F., 4,694,834, Cl. 128-635.000.

er, Angela, legal representative: *See—*
hner, Gunther; Michels-Krohn, Karl-Heinz; and Unter-
ber, Josef, deceased, 4,700,018, Cl. 178-2.00C.
hner, Gunther; Michels-Krohn, Karl-Heinz; and Unter-
ber, Josef, deceased, 4,700,019, Cl. 178-2.00C.
els-Krohn, Karl-Heinz; and Untergruber, Josef, deceased,
00,020, Cl. 178-2.00R.
els-Krohn, Karl-Heinz; and Untergruber, Josef, deceased,
00,021, Cl. 178-2.00R.
er, Josef, deceased: *See—*
hner, Gunther; Michels-Krohn, Karl-Heinz; and Unter-
ber, Josef, deceased, 4,700,018, Cl. 178-2.00C.
hner, Gunther; Michels-Krohn, Karl-Heinz; and Unter-
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els-Krohn, Karl-Heinz; and Untergruber, Josef, deceased,
00,020, Cl. 178-2.00R.
els-Krohn, Karl-Heinz; and Untergruber, Josef, deceased,
00,021, Cl. 178-2.00R.
ner, Fred C.: *See—*
ny, Narinder S.; and Unterleitner, Fred C., 4,714,313, Cl.
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n, Klaus, to Rheinmetall GmbH. Wing deploying system
sing an airbag, 4,659,037, 4-21-87, Cl. 244-3.280.
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hele-Buecher, Sigfrid; and Unterstein, Klaus, 4,688,379, Cl.
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Helmut: *See—*
er, Gerfried; Untucht, Helmut; and Winterstein, Wolfgang,
575,126, Cl. 252-153.000.
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ght, Robert G.; Klat, Samir R.; and Unwin, Kenneth, 4,711,309,
175-93.000.
o: *See—*
isaka, Yoshiharu; Uo, Junko; Matsumoto, Kouichi; Ohodaira,
samu; and Tanaka, Kentaro, 4,713,241, Cl. 424-93.000.
hitake: *See—*
ara, Nobuhide; Kuramoto, Masahiko; and Uoi, Michitake,
680,353, Cl. 526-160.000.
Akiyoshi: *See—*
a, Toshihiko; Uomori, Akiyoshi; and Miyata, Junji, 4,645,896,
l. 219-100.000.
, Kenji. *See—*
vagishi, Yoji; Narita, Shinichi; Kiriu, Takashi; and Uomoto,
enji, 4,656,112, Cl. 430-110.000.
c.: *See—*
evaya, Hayim; and Imai, Tamotsu, 4,672,146, Cl. 585-660.000.
evaya, Hayim; and Targos, William M., 4,714,692, Cl.
02-261.000.
as, Steve T.; and Cole, Steven W., 4,665,272, Cl. 585-739.000.
hler, Allyson J.; and Polak, Anthony J., 4,636,314, Cl.
10-500.250.
cker, Jeffery C., 4,691,071, Cl. 585-319.000.
cker, Jeffery C.; and Staehle, Bruce E., 4,705,620, Cl.
08-206.000.
inkaya, Ismail B.; and Myers, Daniel N., 4,710,357, Cl.
22-144.000.
ang, Chin-Hsiung, 4,664,718, Cl. 127-46.200.
ang, Chin-Hsung, 4,692,514, Cl. 536-127.000.
ao, Tai-Hsiang; and Cleary, Michael T., 4,650,783, Cl.
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ao, Tai-Hsiang, 4,654,455, Cl. 585-415.000.
ao, Tai-Hsiang; and Adriaan Sachtler, J. W., 4,695,666, Cl.
85-481.000.
Graff, Richard R., 4,695,665, Cl. 585-450.000.
gel, Dusan J. and Steigleder, Karl Z., 4,647,704, Cl. 568-716.000.
gel, Dusan J.; and Gilson, Jean-Pierre, 4,691,063, Cl.
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ttuso, Mark J.; and Ellig, Daniel L., 4,695,560, Cl. 502-222.000.
odman, Walter H., 4,707,190, Cl. 127-46.200.
eenwood, Arthur R., 4,637,266, Cl. 73-863.860.
eenwood, Arthur R., 4,647,549, Cl. 502-37.000.
eenwood, Arthur R., 4,662,081, Cl. 34-22.000.
eenwood, Arthur R., 4,665,632, Cl. 34-168.000.
eenwood, Arthur R., 4,687,637, Cl. 422-62.000.
eenwood, Arthur R., 4,701,429, Cl. 502-37.000.
ruia, Adrian J., 4,698,146, Cl. 208-86.000.
aun, Edward C.; and Hamm, David A., 4,634,799, Cl.
585-415.000.
erber, Raymond R.; and Furfaro, Angelo P., 4,648,959, Cl.
208-89.000.
ouse, David W.; and Scott, Ray V., Jr., 4,663,201, Cl.
427-388.200.
ouse, David W.; and Scott, Ray V., Jr., 4,714,512, Cl.
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nai, Tamotsu; and Kocal, Joseph A., 4,636,488, Cl. 502-172.000.
nai, Tamotsu; and Bricker, Jeffery C., 4,652,687, Cl. 585-319.000.
nai, Tamotsu; and Barger, Paul T., 4,665,238, Cl. 568-794.000.
nai, Tamotsu; and Kocal, Joseph A., 4,665,271, Cl. 585-724.000.
nai, Tamotsu; and Abrevaya, Hayim, 4,677,237, Cl. 585-444.000.
nai, Tamotsu, 4,716,143, Cl. 502-326.000.
ensen, Robert H., 4,642,402, Cl. 585-411.000.
ohnson, James A.; and Schmidt, Robert J., 4,665,273, Cl.
585-739.000.
ohnson, Russell W., 4,661,256, Cl. 210-634.000.
Kjell, Solveg S.; Chao, Tai-Hsiang; Flint, Nancy J.; and Foutsitzis, Arthur A., 4,636,483, Cl. 502-61.000.
Kocal, Joseph A.; and Imai, Tamotsu, 4,634,801, Cl. 585-724.000.
Kocal, Joseph A.; and Imai, Tamotsu, 4,677,245, Cl. 585-724.000.
Lambert, Susan L.; Lawson, Randy J.; Johnson, Russell W.; and Barr, Tery L., 4,652,689, Cl. 585-415.000.
Lester, George R.; and Brennan, John F., 4,663,300, Cl. 502-66.000.
Moser, Mark D.; and Lawson, Randy J., 4,677,094, Cl. 502-227.000.
Moser, Mark D.; and Lawson, Randy J., 4,714,538, Cl. 208-139.000.
Moser, Mark D.; and Lawson, R. Joe, 4,714,539, Cl. 208-139.000.
Moser, Mark D.; and Lawson, R. Joe, 4,714,540, Cl. 208-139.000.
Mowry, John R., 4,677,235, Cl. 585-415.000.
Mueller, William H., 4,681,845, Cl. 435-96.000.
Petty-Weeks, Sandra, 4,661,211, Cl. 204-1.00T.
Peyrot, Claude F., 4,669,890, Cl. 366-341.000.
Polak, Anthony J.; and Beuhler, Allyson J., 4,689,122, Cl. 204-1.00T.
Polak, Anthony J.; and Petty-Weeks, Sandra, 4,705,545, Cl. 55-158.000.
Polak, Anthony J.; and Beuhler, Allyson J., 4,710,278, Cl. 204-129.000.
Polak, Anthony J.; and Young, Ping, 4,714,482, Cl. 55-158.000.
Reno, Mark E.; Olson, Robert K.; and Kaines, Tom N., 4,713,167, Cl. 208-59.000.
Schmidt, Robert J., 4,642,406, Cl. 585-477.000.
Schmidt, Robert J., 4,697,039, Cl. 585-477.000.
Schumann, Gary M.; and Schick, David L., 4,633,904, Cl. 137-625.150.
Scott, Ray V., Jr.; Baumann, William M.; and House, David W., 4,709,003, Cl. 528-60.000.
Staggs, Darrell W., 4,715,947, Cl. 208-68.000.
Steigleder, Karl Z., 4,661,239, Cl. 208-111.000.
Targos, William M., 4,714,693, Cl. 502-261.000.
Turner, Robert B.; Peters, Kenneth D.; and Bennett, Richard W., 4,673,488, Cl. 208-101.000.
Urban, Peter; and Stolfa, Frank, 4,647,367, Cl. 208-48.0AA.
Vora, Bipin V.; Berg, Roy C.; and Scott, Norman H., 4,663,493, Cl. 585-655.000.
Vora, Bipin V., 4,695,662, Cl. 585-324.000.
Ward, Dennis J., 4,709,111, Cl. 585-503.000.
Zinnen, Hermann A.; and Franczyk, Thad S., 4,642,397, Cl. 568-934.000.
Zinnen, Hermann A.; and Franczyk, Thad S., 4,714,783, Cl. 568-424.000.
Zupancic, Joseph J.; and Swedo, Raymond J., 4,661,254, Cl. 210-490.000.
Zupancic, Joseph J.; Swedo, Raymond J.; and Petty-Weeks, Sandra L., 4,664,757, Cl. 204-1.00T.
Zupancic, Joseph J.; Swedo, Raymond J.; and Petty-Weeks, Sandra L., 4,664,761, Cl. 204-129.000.
Zupancic, Joseph J.; Swedo, Raymond J.; and Petty-Weeks, Sandra, 4,708,981, Cl. 525-59.000.
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Holt, Andrew; Cheek, Martin G.; and Clegg, Ernest N., 4,639,432, Cl. 502-324.000.
Uota, Kousaku; and Itoh, Hisatsugu, to Mitsubishi Denki Kabushiki Kaisha. Automotive navigation system, 4,677,562, 6-30-87, Cl. 364-449.000.
Uota, Kousaku: *See—*
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Itoh, Hisatsugu; and Uota, Kousaku, 4,677,563, Cl. 364-449.000.
Uotani, Masaki; Yamanaka, Tsuneyasu; and Fukumoto, Wasao, to Central Research Institute of Electric Power Industry; and Hitachi, Ltd. Fast breeder reactor, 4,664,876, 5-12-87, Cl. 376-290.000.
Uotani, Shuhei: *See—*
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Tsuzuki, Kenji; and Uotani, Takeshi, 4,695,644, Cl. 558-249.000.
Uozu, Hirohisa: *See—*
Naito, Akio; Uozu, Hirohisa; and Numaguchi, Toru, 4,714,593, Cl. 422-197.000.
Uozumi, Shoji: *See—*
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Uozumi, Yoshiaki: *See—*
Asai, Masahiro; Mizushima, Toshio; Kawai, Toshiro; Akutsu, Shigemitsu; and Uozumi, Yoshiaki, 4,706,617, Cl. 123-65.0PE.
Up-right, Inc.: *See—*
Ream, Michael D.; and Claxton, Gerald L., 4,657,112, Cl. 182-63.000.
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Finer, Paul; Wahl, Robert O.; and Silverman, William, 4,646,341, Cl. 378-207.000.
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Erwied, Werner; Upadek, Horst; and Wegemund, Bernd, 4,656,210, Cl. 524-167.000.
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Upchurch, James C.: *See*—
Lockett, Michael J.; Summers, Daniel R.; Smith, Vinson C.; and Upchurch, James C., 4,711,745, Cl. 261-114.200.

Upchurch, James E., to Woods Wire Products, Inc. Trouble light with rotatable attaching means. 4,639,842, 1-27-87, Cl. 362-376.000.

Upchurch, James M., to Schlumberger Technology Corporation. Permanent completion tubing conveyed perforating system. 4,633,945, 1-6-87, Cl. 166-55.100.

Updike, Bruce E.: *See*—
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Upeslacis, Janis: *See*—
DeVries, Vern G.; and Upeslacis, Janis, 4,670,421, Cl. 514-63.000.

Upham, Arthur F.: *See*—
Jewell, Michael B.; Johnson, Mark W.; and Upham, Arthur F., 4,661,888, Cl. 361-424.000.

Upjohn Company, The: *See*—
Anderson, Bradley D., 4,666,934, Cl. 514-412.000.
Aristoff, Paul A., 4,668,814, Cl. 560-51.000.
Aristoff, Paul A., 4,683,330, Cl. 560-51.000.
Dolak, Lester A.; Laborde, Alice L.; Sebek, Oldrich K.; Castle, Thomas M.; and Brodasky, Thomas F., 4,689,300, Cl. 435-253.000.
Evans, Timothy W., 4,684,610, Cl. 435-61.000.
Grimes, Thomas L.; Roeland, Robert; and Schadewald, Frederic H., 4,705,611, Cl. 204-129.100.
Heckler, Jay W., 4,701,470, Cl. 514-570.000.
Hester, Jackson B., Jr.; and Ludens, James H., 4,689,413, Cl. 540-565.000.
Huber, Joel E., 4,663,454, Cl. 540-563.000.
Johnson, Brian S., 4,680,312, Cl. 514-573.000.
Kominek, Leo A.; and Wolf, Holly J., 4,704,358, Cl. 435-61.000.
Livingston, Douglas A., and Petre, Janet E., 4,710,565, Cl. 536-16.500.
McCall, John M., 4,711,960, Cl. 544-364.000.
Nelson, Norman A., 4,638,100, Cl. 568-645.000.
Nelson, Stephen J., 4,680,419, Cl. 549-343.000.
Nelson, Stephen J., 4,686,297, Cl. 549-214.000.
Saaty, Samir, 4,668,096, Cl. 366-98.000.
Stringfellow, Dale A.; and Fast, Patricia E., 4,665,077, Cl. 514-269.000.
Szmuszkovicz, Jacob, 4,652,559, Cl. 514-210.000.
Thaisrivongs, Suvit, 4,705,846, Cl. 530-332.000.
Tiffany, Burris D.; Nichols, Steve; Meulman, Paul A.; Hylton, Thomas A.; and Lipton, Michael F., 4,684,725, Cl. 540-565.000.
VanRheenen, Verlan H.; and Huber, Joel E., 4,704,455, Cl. 540-87.000.
Visser, Melvin J.; and Malot, James J., 4,660,639, Cl. 166-267.000.
Von Voigtlander, Philip F., 4,663,335, Cl. 514-359.000.
White, David R.; and Maring, Clarence J., 4,698,436, Cl. 549-361.000.
Youngdale, Gilbert A., 4,645,766, Cl. 514-345.000.

Upmeier, Hartmut, to Windmoller & Holscher. Apparatus for cooling tubular plastic film extruded from a film blowing head. 4,678,417, 7-7-87, Cl. 425-72.00R.

Upmeier, Hartmut; and Peters, Rudolf, to Windmoller & Holscher. Flattening and take-off apparatus for providing a plastic film web from a blown tubular film. 4,682,941, 7-28-87, Cl. 425-72.00R.

Upmeier, Hartmut, to Windmoller & Holscher. Single-screw extruder for producing thermoplastic and elastomeric products. 4,696,575, 9-29-87, Cl. 366-80.000.

Upmeier, Hartmut: *See*—
Achelpohl, Fritz; and Upmeier, Hartmut, 4,643,657, Cl. 425-72.00R.

Uponor AB: *See*—
Nordstrom, Erik G. W., 4,710,337, Cl. 264-508.000.

Uponor N.V.: *See*—
Jarvenkyla, Jyri, 4,690,174, Cl. 138-121.000.

Upp, Daniel C.: *See*—
Van Simaeys, Francoise C. G.; Leurs, Anna M. C.; Upp, Daniel C.; Lawrence, Alan J.; and Cotton, John M., 4,641,301, Cl. 370-58.000.

Upperman, Gary V.: *See*—
Withers, James C.; and Upperman, Gary V., 4,670,110, Cl. 204-67.000.

Upravlenie Po Montazhu, Demontazhu I Remontu Gornoshakhtnogo Oborudovania "Spetsshakhtomontazh" : *See*—
Negrutsky, Sergei B.; Churkin, Vladimir G.; and Chunikhin, Mikhail I., 4,703,835, Cl. 187-17.000.

Upson, Donald A.: *See*—
Myers, Drewfus Y., Jr.; Alexandrovich, Peter S.; Pearce, Glenn T.; Santilli, Domenic; Sreekumar, Chandrasekha; Berwick, Martin A.; Upson, Donald A.; and Goebel, William K., 4,708,923, Cl. 430-112.000.

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Taylor, Arthur D.; and Upson, Thomas M., 4,640,752, Cl. 204-141.500.

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Upton, Gene, to Reach High Products, Inc. Extensible tool handle. 4,653,142, 3-31-87, Cl. 16-115.000.

Upton, John: *See*—
Ridler, Keith D.; Taylor, Peter J.; Poley, John; Norvall, Christopher W.; and Upton, John, 4,685,475, Cl. 131-84.100.

Ura, Hiroaki: *See*—
Sugizaki, Tsugio; Abe, Tadashi; Haibara, Fumio; Fujii, Ritsuo; Ura, Hiroaki; and Matsumoto, Tooru, 4,650,176, Cl. 271-225.000.

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Matsushita, Yasuo; Nakamura, Kousuke; Ura, Mitsuru; and Kobayashi, Fumiyuki, 4,651,192, Cl. 357-74.000.

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Ura, Shozabu; and Iwasa, Yoshio, to Nissan Motor Co., Ltd. Inlet system for internal combustion engine. 4,643,136, 2-17-87, Cl. 123-52.00M.

Ura, Syouzabu; Kikuchi, Tsutomu; and Yasuda, Makoto, to Nissan Motor Co., Ltd. Induction system for internal combustion engine. 4,700,666, 10-20-87, Cl. 123-52.0MB.

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Yasuda, Makoto; Nishimura, Shuichi; and Ura, Syouzabu, 4,715,329, Cl. 123-52.0MV.

Urabe, Hirobumi: *See*—
Hirooka, Hiroshi; Saito, Takeshi; and Urabe, Hirobumi, 4,676,077, Cl. 68-12.00R.

Urabe, Hiroshi: *See*—
Hasuo, Masayoshi; Mukai, Seiichi; Urabe, Hiroshi; Yoshida, Seiji; and Nukui, Masahiro, 4,680,374, Cl. 528-204.000.

Urabe, Hitoshi, to Fuji Photo Film Co., Ltd. Color picture reproduction with cut-off blue spectrum. 4,708,448, 11-24-87, Cl. 354-75.000.

Urabe, Kiichiro, to Hitachi, Ltd. Split image display control unit. 4,649,377, 3-10-87, Cl. 340-721.000.

Urabe, Masaki: *See*—
Arimitsu, Hiroshi; Hatano, Kiyoshi; Nakanishi, Teruyuki; Yoshimura, Yoshio; Urabe, Masaki; and Honda, Tsurakazu, 4,697,179, Cl. 340-825.720.

Urabe, Shigeharu: *See*—
Yamada, Sumito; Mifune, Hiroyuki; and Urabe, Shigeharu, 4,678,745, Cl. 430-569.000.

Urabe, Tetsuo; and Kojima, Shigeru, to Sony Corporation. Liquid crystal display apparatus. 4,639,722, 1-27-87, Cl. 340-784.000.

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Uragami, Akira, to Hitachi, Ltd. Semiconductor integrated circuit having a C-MOS internal logic block and an output buffer for providing ECL level signals. 4,645,951, 2-24-87, Cl. 307-446.000.

Uragami, Akira; Suzuki, Yukio; Kadono, Shinji; Iwamura, Masahiro; Masuda, Ikuro; and Yamauchi, Tatsumi, to Hitachi, Ltd. Inverting logic buffer BICMOS switching circuit using an enabling switch for three-state operation with reduced dissipation. 4,678,943, 7-7-87, Cl. 307-473.000.

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Shibata, Manabu; and Uragami, Akira, 4,683,384, Cl. 307-475.000.
Suzuki, Yasunaga; Matsubara, Toshiaki; and Uragami, Akira, 4,710,842, Cl. 361-88.000.
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Urakami, Fukashi. Device capable of adhering to a wall surface by suction and treating it. 4,688,289, 8-25-87, Cl. 15-98.000.

Urakami, Toyozo: *See*—
Hirose, Kunio; Hukuta, Tadatoshi; Horiuchi, Hiroshi; Urakami, Toyozo; and Yoshida, Minoru, 4,670,801, Cl. 360-85.000.
Kodama, Yoshimi; Urakami, Toyozo; and Takao, Osamu, 4,656,540, Cl. 360-85.000.

Urakawa, Haruki: *See*—
Nakamura, Masashi; Takagi, Yasuo; and Urakawa, Haruki, 4,650,729, Cl. 429-61.000.

Urakawa, Kiyoharu: *See*—
Tamura, Mitsuhiko; Katsumata, Haruo; Urakawa, Kiyoharu; and Ohtani, Yoshiaki, 4,668,827, Cl. 568-345.000.

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Takayuki; Isobe, Mitsuo; Aono, Akira; and Urakawa,
aki, 4,697,112, Cl. 307-530.000.
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g selective drive wheels. 4,684,355, 8-4-87, Cl. 446-464.000.
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, Fumikazu; and Urakawa, Toshio, 4,658,289, Cl.
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Mituo; Odamoto, Katunobu; and Uraki, Keiji, 4,658,298,
8-254.000.
Mituo; Odamoto, Katunobu; and Uraki, Keiji, 4,658,956,
6-320.000.
Silvia L.: *See*—
v, Gennady K.; Brusnikin, Arkady F.; Belonosov, Vladimir
pova, Roza A.; Fux, Vladimir S.; Kagan, Vladimir M.;
kaya, Silvia L.; and Orlova, Nadezhda P., 4,702,069, Cl.
7.000.
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Industry Co., Ltd. Composition for rust prevention of
d threaded metal elements with a rustproof film. 4,642,011,
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h, John; and Uraneck, Carl A., 4,644,024, Cl. 524-99.000.
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2-17-87, Cl. 339-176.00R.
gelo, to Cooper Industries, Inc. Cartridge fuse holder.
9-1-87, Cl. 439-622.000.
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3-24-87, Cl. 220-85.0VR.
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i Kaisha. Fuel tank for use in a motor vehicle. 4,657,156,
Cl. 220-85.0VS.
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i Kaisha. Fuel tank for use in a motor vehicle. 4,701,198,
Cl. 55-387.000.
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moto, Junichi, 4,715,509, Cl. 220-86.00R.
Kouji; and Itoh, Takaaki, to Toyota Jidosha Kabushiki Kai-
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Kouji; and Itou, Takaaki, to Toyota Jidosha Kabushiki Kai-
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4,700,683, 10-20-87, Cl. 123-519.000.
bH: *See*—
owitz, Gunter; and Meyer-Kretschmer, Gustav, 4,679,948,
374-129.000.
Robert, 4,708,709, Cl. 494-32.000.
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ncig, Antoine, 4,643,882, Cl. 423-8.000.
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El A.; Blazy, Pierre; Bessiere, Jacques; and Floreancig, An-
e, 4,634,580, Cl. 423-100.000.
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rt, Philippe, 4,675,166, Cl. 423-11.000.
anet, Pierre-Bernard; and Philbert, Jean-Michel, 4,702,820,
208-424.000.
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to Nippon Paint Co., Ltd. Functional polymers and their
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Shunsuke, 4,649,011, Cl. 264-267.000.
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sho. Die assembly for use in general type mechanical press
e. 4,653,310, 3-31-87, Cl. 72-407.000.
roshi: *See*—
a, Kiyoshi; Nakamura, Michio; and Urata, Hiroshi, 4,652,792,
313-404.000.
oru, to Sony Corporation. Video signal reproducing appara-
89,695, 8-25-87, Cl. 358-314.000.
uzuo: *See*—
oshita, Yasuhiko; Tamaru, Takuya; Ogusu, Mikio; and Urata,
zuo, 4,679,182, Cl. 369-77.200.
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suhiko, 4,646,285, Cl. 369-291.000.
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Urata, Kouichi: *See*—
Takaishi, Naotake; Urata, Kouichi; Inamoto, Yoshiaki; Tsutsumi,
Hisao; and Kawano, Junichi, 4,634,710, Cl. 514-772.000.
Urata, Makoto: *See*—
Nishida, Fumihiko; Shimizu, Yasumasa; Yoshida, Tomohiro; Urata,
Makoto; Hotta, Tomiji; Mizuta, Masaji; and Yamashita, Hiroshi,
4,679,930, Cl. 355-52.000.
Urata, Masami, to Kabushiki Kaisha Toshiba. Superconducting coil
device. 4,688,137, 8-18-87, Cl. 361-141.000.
Urata, Shinji, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic
focusing device for video camera. 4,647,979, 3-3-87, Cl. 358-227.000.
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358-227.000.
Urata, Susumu: *See*—
Nakamura, Toshio; Tamura, Tadashi; Kimura, Naomi; and Urata,
Susumu, 4,706,555, Cl. 99-283.000.
Urata, Toshimitsu, to Kensa Giken Co., Ltd. Jig for carrying out move-
ment and alignment within a pipe. 4,690,006, 9-1-87, Cl. 73-866.500.
Urata, Tsutomu: *See*—
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moto, Kunihiro; and Mizoguchi, Toshiaki, 4,705,279, Cl. 279-
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Urata, Yoshihito; Taekawa, Masaichiro; and Sasaki, Toshiharu, to
Matsushita Electric Industrial Co., Ltd. Multifunctional copying
machine. 4,696,562, 9-29-87, Cl. 355-3.00R.
Uratani, Eiichi. Dehumidifier for a compressed gas. 4,715,871, 12-29-87,
Cl. 55-222.000.
Uratani, Fumihiro: *See*—
Tsuji, Eiji; Okabe, Hirobumi; Ike, Hideo; Uratani, Fumihiro; Ota,
Takashi; Kaneda, Hiroshi; Hanatate, Yuko; Hamada, Tadashi;
and Oonishi, Hironobu, 4,668,585, Cl. 428-469.000.
Uratani, Munchiro, to Sharp Kabushiki Kaisha. CMOS tree decoder
with speed enhancement by adjustment of gate width. 4,684,829,
8-4-87, Cl. 307-449.000.
Uratsuka, Isao: *See*—
Yamamoto, Hiraku; Suzuki, Toshimichi; Katayama, Shigeru; Urat-
suka, Isao; and Asoshina, Eishi, 4,695,598, Cl. 523-400.000.
Urawa, Motoo: *See*—
Ikeda, Takeshi; Imai, Eiichi; Fukumoto, Hiroshi; Tanaka, Kat-
suhiko; Suematsu, Koshi; Urawa, Motoo; and Takenouchi,
Masanori, 4,663,263, Cl. 430-110.000.
Imai, Eiichi; Uchiyama, Masaki; Urawa, Motoo; and Yamamoto,
Atsuko, 4,666,815, Cl. 430-126.000.
Suematsu, Koshi; Takenouchi, Masanori; Urawa, Motoo; and
Ikeda, Takeshi, 4,666,814, Cl. 430-126.000.
Urayama, Kiyoshi, to Sony Corporation. Magnetic tape cassette with
tape protective sliding closure and lock mechanism for sliding clo-
sure. 4,697,702, 10-6-87, Cl. 206-387.000.
Urayama, Yuji: *See*—
Kawade, Hideji; Takahashi, Hideaki; Sato, Yoshiyuki; and
Urayama, Yuji, 4,640,990, Cl. 379-77.000.
Urbach, Hansjorg; Henning, Rainer; Teetz, Volker; Wissman, Hans;
and Becker, Reinhard, to Hoechst Aktiengesellschaft. Bicyclic
aminoacids as intermediates and processes for their preparation.
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hard, to Hoechst Aktiengesellschaft. Derivatives of cis, endo-2-
azabicyclo[5.3.0]decane-3-carboxylic acid, and their use for treating
hypertension. 4,714,708, 12-22-87, Cl. 514-412.000.
Urbach, Hansjorg: *See*—
Henning, Rainer; and Urbach, Hansjorg, 4,684,662, Cl. 548-452.000.
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Urbach, John C.: *See*—
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365-127.000.
Urban, Carol A.; and Morey, Mangala A., to Picker International, Inc.
Display for radiation imaging. 4,674,107, 6-16-87, Cl. 378-98.000.
Urban Engineering Company, Inc.: *See*—
Kleinberg, Larry K., 4,688,907, Cl. 350-516.000.
Urban, Frank J., to Pfizer Inc. Synthetic intermediates for a chiral
3-(substituted-phenyl)-4-(3-hydroxypropyl) cyclohexanol. 4,663,474,
5-5-87, Cl. 560-118.000.
Urban, Frank J., to Pfizer Inc. Process for the production of an (S)-
methyl or (S)-ethyl 4-amino-6-fluorochroman-4-carboxylate.
4,716,113, 12-29-87, Cl. 435-125.000.
Urban Fuels, Inc.: *See*—
Hedrick, William S., 4,650,689, Cl. 426-600.000.
Urban, James J.: *See*—
Kohlmetz, Charles W.; Urban, James J.; and Kenny, John,
4,696,283, Cl. 126-247.000.
Urban, Manfred, to Robert Bosch GmbH. Method of monitoring com-
puter elements, particularly microprocessors. 4,683,568, 7-28-87, Cl.
371-12.000.
Urban, Manfred; and Kiefer, Hans, to Kernforschungszentrum Karls-
ruhe GmbH. Passive dosimeter. 4,704,537, 11-3-87, Cl. 250-472.100.
Urban, Manfred: *See*—
Spietschka, Ernst; and Urban, Manfred, 4,650,879, Cl. 549-232.000.
Spietschka, Ernst; and Urban, Manfred, 4,655,845, Cl. 106-309.000.
Spietschka, Ernst; and Urban, Manfred, 4,689,087, Cl. 106-309.000.
Spietschka, Ernst; and Urban, Manfred, 4,705,572, Cl. 106-288.000.
Urban, Milfred W. Mirror and bracket assembly. 4,715,701, 12-29-87,
Cl. 350-625.000.
Urban, Otfried: *See*—
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206-444.000.

Urban, Peter. Bonder for lead frames. 4,635,838, 1-13-87, Cl. 228-5.500.
Urban, Peter, to Kusters, Eduard. Device for the reciprocating linear drive of a part. 4,642,839, 2-17-87, Cl. 15-256.530.
Urban, Peter; and Stolfa, Frank, to UOP Inc. Antifouling agents for prevention of unwanted coke formation in reactors. 4,647,367, 3-3-87, Cl. 208-48.0AA.
Urban, Robert J.: *See*—
Borchert, Earl E.; Urban, Robert J.; and Barker, Ray E., 4,643,883, Cl. 423-321.00S.
Urban, Robert W.: *See*—
Doom, Lewis W. G.; Doom, Lewis W. G., Jr.; and Urban, Robert W., 4,650,343, Cl. 366-279.000.
Urban, Ted F., to Lamico, Inc. Arm piece assembly for crutch. 4,637,414, 1-20-87, Cl. 135-73.000.
Urban Transportation Development Corporation Ltd.: *See*—
Ballantyne, W. John, 4,635,560, Cl. 104-292.000.
Chadwick, Dennis, 4,700,854, Cl. 213-62.00R.
Smith, Roy E., 4,679,665, Cl. 188-218.0XL.
Wallace, Allen K., 4,642,493, Cl. 310-13.000.
Woods, David H., 4,671,577, Cl. 303-3.000.
Urbani, William G., to Industrial Innovations, Inc. Apparatus and method for processing sewage scum. 4,647,383, 3-3-87, Cl. 210-768.000.
Urbani, William G., to Industrial Innovations, Inc. Single pressure vessel cleaning system. 4,672,710, 6-16-87, Cl. 15-302.000.
Urbani, William G., to Industrial Innovations, Inc. Sludge remover and processor. 4,687,584, 8-18-87, Cl. 210-769.000.
Urbani, William G., to Industrial Innovations, Inc. Vacuum loading cleaning system. 4,707,878, 11-24-87, Cl. 15-302.000.
Urbania, William G., to Industrial Innovations, Inc. Recycled liquid cleaning system. 4,696,073, 9-29-87, Cl. 15-302.000.
Urbaniak, Ray. Syringe cartridge. 4,673,396, 6-16-87, Cl. 604-211.000.
Urbanic, James J.: *See*—
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Urbanic, John M.: *See*—
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Urbanik, Peter J.: *See*—
Spock, Wayne R.; and Urbanik, Peter J., 4,641,517, Cl. 73-116.000.
Urbanski, Janet B.: *See*—
Frey, Gary T.; Strong, Douglas H.; and Urbanski, Janet B., 4,645,790, Cl. 524-442.000.
Urbanski, Jeffrey C., to Allied Corporation. Dual antenna for magnetic markers. 4,658,263, 4-14-87, Cl. 343-788.000.
Urbanski, Jeffrey C.: *See*—
Anderson, Philip M.; Ujazdowski, Richard C.; and Urbanski, Jeffrey C., 4,675,655, Cl. 340-505.000.
Anderson, Philip M.; Ujazdowski, Richard C.; and Urbanski, Jeffrey C., 4,686,515, Cl. 340-572.000.
Anderson, Philip M., III; and Urbanski, Jeffrey C., 4,644,310, Cl. 335-215.000.
Anderson, Philip M., III; and Urbanski, Jeffrey C., 4,647,917, Cl. 340-572.000.
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Urbas, Branko, to CPC International Inc. Concentration of organic chemicals from dilute aqueous solutions. 4,691,055, 9-1-87, Cl. 562-589.000.
Urbas, John C. Heat collector for the dryer section of a papermaking machine. 4,706,391, 11-17-87, Cl. 34-114.000.
Urbascheck, Bernhard; Becker, Klaus-Peter; and Ditter, Bernhard. Method for determining endotoxin concentrations. 4,663,298, 5-5-87, Cl. 436-502.000.
Urben, Peter G., to Courtaulds PLC. Production of S-aryl S-alkyl dithiocarbonates. 4,711,967, 12-8-87, Cl. 558-243.000.
Urbschat, Ulrich, to Hella KG Hueck & Co. Headlight for motor vehicles. 4,710,855, 12-1-87, Cl. 362-66.000.
Urbush, Richard L.: *See*—
Andis, Matthew L.; Urbush, Richard L.; and Maddocks, Thomas C., 4,659,907, Cl. 219-370.000.
Urbutis, Algimantas P., to Viskase Corporation. Shirred casing article. 4,690,173, 9-1-87, Cl. 138-118.100.
Urch, Harvey M.: *See*—
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Urdal, David L.; March, Carl J.; Mochizuki, Diane Y.; and Conlon, Paul J., III, to Immunex Corporation. Process for producing homogeneous colony stimulating factor. 4,658,018, 4-14-87, Cl. 530-351.000.
Urech, Werner, to Elpatronic AG. Tear-open can member. 4,651,891, 3-24-87, Cl. 220-274.000.
Urech, Werner: *See*—
Opprecht, Paul; Urech, Werner; and Opprecht, Jurg, 4,637,521, Cl. 220-274.000.
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Opprecht, Paul; Urech, Werner; and Opprecht, Jurg, 4,712,960, Cl. 413-74.000.
Ureche, Alexander. Fluorescent lamp ballast. 4,689,524, 8-25-87, Cl. 315-206.000.
Uredat-Neuhoff, Angela, to Inaba Seisakusho Ltd. Height adjustable table. 4,714,028, 12-22-87, Cl. 108-144.000.
Urfer, Allen D.: *See*—
Kickle, Hunter L.; Urfer, Allen D.; Cahn, Arno; Borys, Nelson F., and Verboom, Gilles M. L., 4,675,127, Cl. 252-174.170.
Malik, Arshad H.; McDaniel, Robert S., Jr.; and Urfer, Allen D., 4,668,422, Cl. 252-174.170.
Malik, Arshad H.; Urfer, Allen D.; McDaniel, Robert S.; Johnson, Donald L., 4,678,595, Cl. 252-174.170.
Malik, Arshad H.; and Urfer, Allen D., 4,683,074, Cl. 252-136.
Uri, Ehud, to Plasson Maagan Michael Industries Ltd. Suspension-poultry drinking fountain. 4,703,721, 11-3-87, Cl. 119-81.000.
Uriarte, Jose I. Liquid closing device. 4,681,131, 7-21-87, 137-247.350.
Uriarte, Pedro: *See*—
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Urihara, Kazuhiro: *See*—
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Uriuhara, Makoto; and Ohmori, Atsushi, to Isuzu Motors Limited, control method for automatic clutch. 4,685,062, 8-4-87, 364-424.100.
Uriuhara, Makoto: *See*—
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Urmston, Hugh C.; and Pohlenz, Elmer F., to Aluminum Compar America. Male core for forming vent slots in a thermoplastic clo 4,657,221, 4-14-87, Cl. 249-175.000.
Urnovitz, Howard B., to Xoma Corporation. Antibody hybrid m cules and process for their preparation. 4,698,420, 10-6-87, 530-387.000.
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Hatakeyama, Takuya; and Ohga, Shinji, 4,713,024, Cl. 439-555.
Urpha: *See*—
Stambach, Jean-Francois; Jung, Louis; Heitz, Christiane; Sc Claire; Stoclet, Jean-Claude; and Schutz, Fabienne, 4,645,772 514-280.000.
Urquhart, John; and Theeuwes, Felix, to Alza Corporation. Gast testinal drug delivery system comprising a hydrogel reservoir taining a plurality of tiny pills. 4,642,233, 2-10-87, Cl. 424-19.00
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Urquhart, John; and Theeuwes, Felix, to Alza Corporation. Systen dispersing drug in biological environment. 4,681,583, 7-21-87, 604-892.000.
Urquhart, Robert J.: *See*—
Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David Landis, James K.; Neff, Mary S.; Urquhart, Robert J.; and liams, Susan C., 4,672,571, Cl. 364-900.000.
Bass, Vance R.; Bonebrake, Veronica A.; Garrison, David Landis, James K.; Neff, Mary S.; Urquhart, Robert J.; and liams, Susan C., 4,701,851, Cl. 364-419.000.
Urquhart, Roderick M.: *See*—
McGinlay, James G.; and Urquhart, Roderick M., 4,638,383, 360-77.000.
Urry, Dan W.; and Long, Marianna M., to University of Alabam Birmingham. Stimulation of chemotaxis by chemotactic pept 4,693,718, 9-15-87, Cl. 623-11.000.
URS Corporation: *See*—
Vogen, Wayne V., 4,674,571, Cl. 166-249.000.
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Urschel, Adam: *See*—
Horoldt, Ernst; and Urschel, Adam, 4,686,097, Cl. 423-520.00
Urschel, Joe R.: *See*—
Fischer, Robert R.; and Urschel, Joe R., 4,657,190, Cl. 241-30
Fischer, Robert R.; and Urschel, Joe R., 4,660,778, Cl. 241-292
Urschel Laboratories, Inc.: *See*—
Fischer, Robert R.; and Urschel, Joe R., 4,657,190, Cl. 241-30
Fischer, Robert R.; and Fischer, W. James, 4,660,453, 83-663.000.
Fischer, Robert R.; and Urschel, Joe R., 4,660,778, Cl. 241-292
Fischer, Robert R.; and Fischer, W. James, 4,706,524, Cl. 101.00A.
Urschel, William J., and Sloane, Edwin A., to Fairchild Semicondu Corporation. Method and apparatus for minimizing digital-to-an converter correction trims. 4,673,917, 6-16-87, Cl. 340-347.0CC.
Urscheler, Robert: *See*—
Koenig, Raymond; Urscheler, Robert; and Klein, Dieter 4,661,568, Cl. 525-510.000.
Urso, Charles J., Jr., to Xerox Corporation. Charge erase device fo electrophotographic printing machine. 4,695,152, 9-22-87, Cl 3.00R.
Urso, Charles L. Safety heater. 4,691,688, 9-8-87, Cl. 126-208.000.
Urso, Charles L. Interdental cleaning and polishing tool. 4,706, 11-17-87, Cl. 132-92.00R.
Urso, Joseph F.: *See*—
Fallis, Mary A.; Urso, Joseph F.; and Urso, Samuel J., 4,708, Cl. 297-452.000.

Urso, Patrick F., to Weyerhaeuser Company. Machine for forming full overlap shipping container. 4,650,448, 3-17-87, Cl. 493-18.000.

Urso, Samuel J.: *See*—
Fallis, Mary A.; Urso, Joseph F.; and Urso, Samuel J., 4,708,393, Cl. 297-452.000.

Ursprung, Cecil: *See*—
Grewe, Ronald E.; Hillstrom, David U.; Seely, James R.; and Ursprung, Cecil, 4,691,892, Cl. 248-624.000.

Urui, Kiyoshi; Ishikawa, Kiyoshi; and Okano, Michiaki, to Kabushiki Kaisha Toshiba. Exchange system including plural terminals for voice and data transmission. 4,635,253, 1-6-87, Cl. 370-67.000.

Uruno, Kiyokazu: *See*—
Morita, Akiyoshi; Nonoyama, Hideo; Fukuizumi, Toshiharu; and Uruno, Kiyokazu, 4,661,676, Cl. 219-121.0LM.

Urushibara, Kazunori: *See*—
Tsunekawa, Tokuichi; Date, Nobuaki; Aizawa, Hiroshi; Hosoe, Kazuya; and Urushibara, Kazunori, 4,658,304, Cl. 358-310.000.

Urushibata, Ikumi: *See*—
Takematsu, Tetsuo; Konnai, Makoto; Shimizu, Kuniaki; Urushibata, Ikumi; and Kajiwara, Ikuo, 4,659,371, Cl. 71-103.000.

Urushibata, Masahiro: *See*—
Nishimura, Tetsuro; Tanokura, Nobukazu; and Urushibata, Masahiro, 4,657,535, Cl. 604-263.000.

Urushibata, Yukio; and Shiraogawa, Yukio, to Kabushiki Kaisha Toshiba. Image processor system. 4,653,110, 3-24-87, Cl. 382-41.000.

Urushidani, Haruo: *See*—
Sasada, Tetsuo; Sato, Takeshi; Urushidani, Haruo; Hisano, Katsukuni; Kaneko, Ryoichi; Ikeuchi, Kazuo; and Tsuji, Kunio, 4,662,820, Cl. 415-170.00R.
Shibashita, Naoaki; Toriya, Hajime; Shimomura, Kiyoshi; Urushidani, Haruo; and Kaneko, Ryoichi, 4,688,385, Cl. 60-646.000.

Urushidani, Masahiro: *See*—
Sawada, Hiroshi; and Urushidani, Masahiro, 4,653,452, Cl. 123-491.000.

Urwyler, Peter R., to Simtek Inc. Apparatus for dispensing strip material or the like. 4,638,696, 1-27-87, Cl. 83-261.000.

Ury, Michael G.; and Wood, Charles H., to Fusion Systems Corporation. Method and apparatus for cooling electrodeless lamps. 4,695,757, 9-22-87, Cl. 313-44.000.

Ury, Michael G.: *See*—
Petelin, Andrei N.; Sharp, Celia M.; Ury, Michael G.; and Wooden, Gene R., 4,641,033, Cl. 250-492.100.

Uryu, Kouhei. Folding thick paper box for (menstruous) filthy goods and support structure thereof. 4,662,559, 5-5-87, Cl. 229-131.000.

Uryu, Toshiyuki; and Kato, Takashi, to Polyplastics Co., Ltd. Process for producing three-dimensionally crosslinked polyester having the liquid crystal structure. 4,710,547, 12-1-87, Cl. 525-437.000.

Us, Vasiliy I.: *See*—
Paton, Boris E.; Medovar, Boris I.; Biletsky, Semen M.; Saenko, Vladimir Y.; Us, Vasiliy I.; Krendeleva, Alisa I.; Barvinko, Jury P.; Medovar, Lev B.; Pivovarsky, Nikolai B.; and Astafiev, Nikolai A., 4,711,387, Cl. 228-143.000.

Usagawa, Tatumi: *See*—
Itoh, Fumihiko; Usagawa, Tatumi; Sakai, Ryo; and Yamamoto, Yasakao, 4,635,615, Cl. 126-273.00A.
Itoh, Fumihiko; Usagawa, Tatumi; Sakai, Ryo; and Yamamoto, Yasakao, 4,666,113, Cl. 248-201.000.

Usagawa, Toshiyuki; Ono, Yuichi; and Takahashi, Susumu, to Hitachi, Ltd. Semiconductor device. 4,710,787, 12-1-87, Cl. 357-16.000.

Usagawa, Toshiyuki: *See*—
Ueyanagi, Kiichi; Takahashi, Susumu; Usagawa, Toshiyuki; Umemoto, Yasunari; and Tsukada, Toshihisa, 4,683,487, Cl. 357-34.000.

Usami, Akihiro; and Tokuhara, Mitsuhiro, to Canon Kabushiki Kaisha. Method of forming a light source by the use of a refractive index distribution type lens and light source device. 4,634,233, 1-6-87, Cl. 350-413.000.

Usami, Akihiro, to Canon Kabushiki Kaisha. Image density control apparatus. 4,702,590, 10-27-87, Cl. 355-14.00C.

Usami, Hiroko; Yamamoto, Akihiro; Sugawara, Yutaka; Ketani, Shozo; and Kato, Keijiro, to Chugai Seiyaku Kabushiki Kaisha. Antitumor agent. 4,678,773, 7-7-87, Cl. 514-25.000.

Usami, Kyohei; and Watanabe, Katsuhiko, to Nippondenso Co., Ltd. Oxygen separating member and process for producing the same. 4,696,686, 9-29-87, Cl. 55-158.00.0.

Usami, Masayuki: *See*—
Yamamoto, Junji; Kanou, Noboru; and Usami, Masayuki, 4,662,672, Cl. 296-224.000.

Usami, Nagatoshi: *See*—
Sugimoto, Norihiko; Inada, Shunji; and Usami, Nagatoshi, 4,680,756, Cl. 370-88.000.

Usami, Shozo: *See*—
Terada, Kimio; Mori, Michio; Goto, Yoichi; Nakazawa, Takashi; Muto, Kunio; and Usami, Shozo, 4,637,937, Cl. 426-570.000.

Usami, Tadashi: *See*—
Suzuki, Masaru; Tsujiuchi, Yoshio; Ogawa, Akira; and Usami, Tadashi, 4,660,944, Cl. 350-635.000.

Usami, Toshimasa; and Tanaka, Toshiharu, to Fuji Photo Film Co., Ltd. Heat-sensitive recording material. 4,644,376, 2-17-87, Cl. 346-215.000.

Usami, Toshimasa; Tanaka, Toshiharu; and Shinozaki, Fumiaki, to Fuji Photo Film Co., Ltd. Heat-sensitive recording material. 4,650,740, 3-17-87, Cl. 430-176.000.

Usami, Toshimasa; Tanaka, Toshiharu; and Yoshida, Shohei, to Fuji Photo Film Co., Ltd. Heat-sensitive recording material. 4,682,194, 7-21-87, Cl. 503-215.000.

Usami, Toshimasa: *See*—
Hayashi, Takayuki; Usami, Toshimasa; and Tanaka, Toshiharu, 4,686,547, Cl. 503-207.000.
Kirttani, Masataka; Usami, Toshimasa; and Tanaka, Toshiharu, 4,665,411, Cl. 346-213.000.

Usami, Yutaka, to Diesel Kiki Co., Ltd. Controls for refrigerating or air-conditioning units. 4,660,387, 4-28-87, Cl. 62-184.000.

Usami, Yutaka: *See*—
Horiya, Keiichi; Takahama, Kazuhide; and Usami, Yutaka, 4,683,479, Cl. 346-76.0PH.

Usbeck, Walter: *See*—
Gorner, Horst; Furstwangler, Walter; and Usbeck, Walter, 4,695,048, Cl. 271-122.000.

USEC, Inc.: *See*—
Bolden, Albert, 4,714,817, Cl. 219-121.0LK.

Usen, Norman: *See*—
Winstor, Anthony; Ansaldi, Anthony; and Usen, Norman, 4,663,153, Cl. 424-52.000.

USG Acoustical Products Company: *See*—
Hillman, Theodore E., 4,711,685, Cl. 156-220.000.
Porter, William F., 4,670,032, Cl. 65-1.000.
Porter, William F., 4,681,613, Cl. 65-1.000.

USG Corporation: *See*—
Dozsa, Otto L., 4,681,644, Cl. 156-39.000.
Struss, Arthur W., 4,657,594, Cl. 106-308.00N.
Van Weelden, Roger M., 4,633,614, Cl. 49-409.000.
Wendt, Alan C., 4,698,946, Cl. 52-275.000.

USG Industries, Inc.: *See*—
Green, William J.; and Semmerling, Ralph P., 4,689,927, Cl. 52-180.000.
Stover, David R., 4,666,355, Cl. 411-85.000.

Usher, Irwin H.: *See*—
Noble, Richard G.; Cole, Garland L.; and Usher, Irwin H., 4,672,533, Cl. 364-200.000.

Usher, Thomas C., to Polydex Pharmaceuticals Ltd. Cosmetic preparations composing novel elastin derivatives. 4,659,740, 4-21-87, Cl. 514-773.000.

Ushida, Kunihiro: *See*—
Takeuchi, Tadashi; and Ushida, Kunihiro, 4,672,839, Cl. 73-35.000.
Tsunooka, Tsutomu; Takeuchi, Tadashi; Ushida, Kunihiro; and Kawajiri, Shogo, 4,638,206, Cl. 310-313.00B.

Ushida, Manabu: *See*—
Nakano, Yoshihisa; Ohira, Masatoshi; Ushida, Manabu; Miyagawa, Tomoyuki; and Shimodaira, Toshiya, 4,635,959, Cl. 280-707.000.

Ushida, Masao: *See*—
Matsui, Shigekazu; Kagaya, Kenichi; Ushida, Masao; and Maruyama, Kouichi, 4,696,877, Cl. 430-5.000.

Ushida, Minoru: *See*—
Aramaki, Jun; Karashima, Toshiharu; Magara, Takuji; and Ushida, Minoru, 4,698,477, Cl. 219-69.00R.

Ushifusa, Nobuyuki: *See*—
Shinohara, Hiroichi; Ushifusa, Nobuyuki; Nagayama, Kousei; and Ogihara, Satoru, 4,672,152, Cl. 174-68.500.

Ushigome, Hideji. Forked shell and membrane stripper for boiled eggs. 4,691,440, 9-8-87, Cl. 30-322.000.

Ushijima, Hisashi: *See*—
Nagasawa, Tomonori; and Ushijima, Hisashi, 4,645,983, Cl. 315-370.000.
Tanaka, Sadaaki; and Ushijima, Hisashi, 4,638,363, Cl. 358-219.000.

Ushijima, Makoto: *See*—
Uchida, Noriaki; Ushijima, Makoto; and Yanagisawa, Etsuo, 4,667,259, Cl. 360-122.000.

Ushijima, Ryosuke: *See*—
Nakagawa, Susumu; Ushijima, Ryosuke; Nakano, Fumio; Yamada, Koji; and Mano, Eiichi, 4,677,100, Cl. 514-202.000.

Ushijima, Yasuhiro; Kitagawa, Tohru; Ohyoshi, Sadao; and Nishiyama, Yoshihisa, to Tokyo Electric Co., Ltd. Load cell. 4,674,342, 6-23-87, Cl. 73-862.650.

Ushijima, Yoshio: *See*—
Nakajima, Yo; Nakajima, Yoshihisa; and Ushijima, Yoshio, 4,636,963, Cl. 364-479.000.

Ushiki, Hiroshi; and Iwasaki, Tetsuaki, to Kabushiki Kaisha Toshiba; and Tosbac Computer System Co., Ltd. Key circuit. 4,701,748, 10-20-87, Cl. 340-365.00S.

Ushiku, Yukihiro, to Kabushiki Kaisha Toshiba. Clock driver distribution system in a semiconductor integrated circuit device. 4,661,721, 4-28-87, Cl. 307-269.000.

Ushikubo, Masao, to Olympus Optical Co., Ltd. Reagent delivery device. 4,710,355, 12-1-87, Cl. 422-100.000.

Ushimaru, Koichi; Nakamichi, Koichi; and Saito, Hitoshi, to Nippon Shinyaku Co. Ltd. Pharmaceutical preparations and a method of manufacturing them. 4,702,918, 10-27-87, Cl. 424-461.000.

Ushimura, Shoji: *See*—
Shinzawa, Motohiro; and Ushimura, Shoji, 4,662,172, Cl. 60-303.000.

Ushio Denki Kabushiki Kaisha: *See*—
Funada, Fumiaki; Hamada, Hiroshi; and Inoue, Osamu, 4,680,505, Cl. 313-558.000.
Hiramoto, Tatsumi; Iwai, Ikuo; Ohyama, Masachika; and Narita, Mitsuo, 4,704,346, Cl. 430-311.000.
Imamura, Kenji, 4,653,904, Cl. 355-68.000.
Imamura, Kenji, 4,668,081, Cl. 355-70.000.
Okanuma, Tsuneo, 4,673,843, Cl. 313-570.000.

Ushio, Hiroshi: *See*—
Naito, Akira; Kodama, Tetsuzi; Tsuruse, Hideki; Tsutsumi, Hironobu; and Ushio, Hiroshi, 4,646,354, Cl. 382-28.000.

Ushio, Masaru; Ishii, Takeshi; Okazaki, Hajime; Shoda, Takashi; and Nasuno, Kazuya, to Research Association for Petroleum Alternative Development. Hydrocarbon conversion process. 4,670,614, 6-2-87, Cl. 585-417.000.

Ushio, Tetsuji; Tatsuguchi, Satoru; Tani, Hoshiro; and Tsuzawa, Takashi, to Mishima Kosan Corporation. Method for producing dissimilar coating for continuous casting mold. 4,688,320, 8-25-87, Cl. 29-527.400.

Ushio, Yukihide: *See—*
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Seto, Kaoru; Ushio, Yukihide; Hori, Kenjiro; Hashimoto, Hiroshi; Yoshimoto, Toshio; and Kanaiwa, Kiyoshi. 4,712,118, Cl. 346-108.000.

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Ushioda, Toyoji: *See—*
Uematsu, Ryosuke; Ushioda, Toyoji; and Fukuchi, Hiromichi. 4,688,048, Cl. 346-1.100.

Ushiro, Masayuki, to Nissan Motor Co., Ltd. Surplus warp yarn treating device of loom. 4,691,742, 9-8-87, Cl. 139-1.00R.

Ushiro, Seimei, to Fuji Photo Film Co., Ltd. Automatic range finding device. 4,710,011, 12-1-87, Cl. 354-403.000.

Ushiro, Sotaro, to Tokyo Shibaura Denki Kabushiki Kaisha. Input/output paging mechanism in a data processor. 4,654,791, 3-31-87, Cl. 364-200.000.

Ushiro, Tatsuzo: *See—*
Kozuki, Susumu; Takayama, Nobutoshi; Edakubo, Hiroo; Ushiro, Tatsuzo; Takei, Masahiro, and Nagasawa, Kenichi. 4,665,449, Cl. 360-77.000.

Ushiyama, Keiichi: *See—*
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Ushiyama, Shigeyuki: *See—*
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Ushizawa, Jisaburo: *See—*
Suzuki, Hitoshi; Ebata, Yasuo; Matsumura, Sadao; and Ushizawa, Jisaburo. 4,672,255, Cl. 310-313.00A.

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Ferriere, Dominique; and Giraudy, Bernard. 4,665,317, Cl. 250-562.000.
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Usinor Aciers: *See—*
Backelandt, Bernard; Gythiel, Jean-Claude; and Piquet, Daniel. 4,699,694, Cl. 204-28.000.
Delbecq, Gerard; Markey, Jean-Pierre; Marcq, Bernard; and Val, Rene . 4,672,726, Cl. 29-33.00A.

Uskokovic, Milan R.: *See—*
Partridge, John J.; Shiuey, Shian-Jan; and Uskokovic, Milan R. 4,634,692, Cl. 514-167.000.
Partridge, John J.; Shiuey, Shian-Jan; and Uskokovic, Milan R. 4,652,405, Cl. 260-397.100.

USM Corporation: *See—*
Anquetin, Robert. 4,657,456, Cl. 411-38.000.
Binder, Hans. 4,639,964, Cl. 12-142.0LC.
Bond, Michael E.; and Voreh, Fred R.. 4,712,956, Cl. 411-55.000.
Borst, Willi; and Pfisterer, Reinhard. 4,706,852, Cl. 222-146.200.
Braychak, Joseph J.; and Casey, John P., Sr.. 4,708,553, Cl. 411-34.000.
Carlson, John H.. 4,663,813, Cl. 29-159.200.
Fischer, Eleonore. 4,645,810, Cl. 526-204.000.
Giebel, Gerhard. 4,649,584, Cl. 12-14.500.
Giebel, Gerhard. 4,653,133, Cl. 12-8.800.
Giebel, Gerhard; Broning, Manfred; and Fichtner, Rudi. 4,688,288, Cl. 12-14.500.
Gilch, Heinz; von Voithenberg, Hubertus; and Rengel, Reinhard. 4,661,542, Cl. 524-59.000.
Gilch, Heinz G.; and Haar, Wolfgang. 4,707,515, Cl. 524-506.000.
Hardy, Alan; Agger, Reginald T.; and Crabtree, Andrew. 4,647,646, Cl. 528-45.000.
Hawkswell, Victor T.. 4,687,152, Cl. 242-55.000.
Herdeg, Donald F.; and Ciccia, Lawrence P.. 4,682,552, Cl. 112-121.120.
Herdeg, Donald F.; and Ciccia, Lawrence P.. 4,686,915, Cl. 112-121.120.
Herdeg, Donald F.; and Poirier, Bruce A.. 4,704,974, Cl. 112-121.120.
Jackson, Rodney P.. 4,644,634, Cl. 29-566.300.
Kidder, Robert A.; Vancelette, Stanley R.; Whalen, Willis B.; and Di Nozzi, Robert D.. 4,646,676, Cl. 118-243.000.
Kondo, Yoshiteru. 4,672,174, Cl. 219-130.010.
Lofgren, Per-Erik. 4,654,388, Cl. 524-272.000.
Mauer, Dieter; and Clauss, Wolfgang. 4,662,206, Cl. 72-391.000.
McIlvin, Donald B.. 4,642,829, Cl. 12-54.300.
Moran, Michael J.; and Kemnitz, Tadeusz. 4,681,176, Cl. 177-114.000.
Morse, Albert L.; and Martin, John F.. 4,659,420, Cl. 156-556.000.
Morse, Albert L.. 4,685,418, Cl. 118-503.000.
Osterland, Robert W.. 4,644,612, Cl. 24-295.000.
Pendelton, Richard A.. 4,688,415, Cl. 72-339.000.
Pendleton, Richard A.. 4,648,259, Cl. 72-391.000.
Schuster, Heinz; and Press, Gerd. 4,639,155, Cl. 401-1.000.
Schuurmans, Marinus E.. 4,706,525, Cl. 112-121.270.
Shields, Thomas A.. 4,682,925, Cl. 411-461.000.
Simmonds, Robert C., Jr.; Gilbride, Andrew J.; and Morse, A. L.. 4,650,538, Cl. 156-578.000.
Simmonds, Robert C., Jr.; Gilbride, Andrew J.; and Morse, A. L.. 4,661,198, Cl. 156-578.000.
Simmonds, Robert C., Jr.; Crowell, Douglas H.; and Martin, F.. 4,681,650, Cl. 156-378.000.
Simpson, William W.; and Fulton, Irvin G.. 4,697,403, Cl. 53-551.000.
Speisebecher, Joachim; and Wooge, Christian. 4,637,745, Cl. 401-1.000.
Speisebecher, Joachim; and Wooge, Christian. 4,660,743, Cl. 222-146.500.
Szydlek, Nicholas P.. 4,655,149, Cl. 112-121.120.
Vancelette, Stanley R.. 4,646,432, Cl. 29-743.000.
Vancelette, Stanley R.; and Dinozzi, Robert D.. 4,671,707, Cl. 406-74.000.
Wickers, Francis A.; and Raines, Max. 4,694,766, Cl. 112-262.
Woodman, Daniel W., Jr.. 4,633,997, Cl. 198-456.000.

USS Engineers and Consultants, Inc.: *See—*
Hill, Paul L.. 4,641,768, Cl. 222-590.000.

Ussery, Hoyt D. Educational puzzle box. 4,692,119, 9-8-87, Cl. 434-259.000.

Ustin, George; and Soltis, Andrew P., to North American Ph Corporation. Dead front terminal block assembly. 4,659,169, 4-2 Cl. 339-198.00R.

Usuda, Eiji, to Fanuc Ltd. Numerical control system. 4,661, 4-28-87, Cl. 364-171.000.

Usuda, Eiji: *See—*
Hattori, Kiyoshi; and Usuda, Eiji. 4,685,053, Cl. 364-184.000.

Usuda, Masahiro: *See—*
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Usui, Akira: *See—*
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Sakashita, Seiji; Sato, Takeshi; Nagai, Hiroyuki; Kubo, Kazuh and Usui, Akira. 4,677,692, Cl. 455-319.000.
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Watanabe, Hisatsune; and Usui, Akira. 4,680,602, Cl. 357-17.00

Usui, Hideo: *See—*
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Yamada, Kohzaburoh; Ichijima, Seiji; and Usui, Hideo. 4,678, Cl. 430-551.000.

Usui, Hirokazu: *See—*
Iwata, Yasunari; and Usui, Hirokazu. 4,700,563, Cl. 73-118.100

Usui, Hiroya: *See—*
Urabe, Tetsuo; Sugiki, Mikio; and Usui, Hiroya. 4,653,867, 350-351.000.

Usui, Kazufumi: *See—*
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Usui, Keizaburo: *See—*
Takaishi, Tatsuyuki; Kobayashi, Fumio; Usui, Keizaburo; a Kagiyama, Tsutomu. 4,691,584, Cl. 74-471.00R.

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Usui, Koji: *See—*
Kobayashi, Waichi; Usui, Koji; Hirosawa, Kozo; and Sadata Tetsuya. 4,707,270, Cl. 210-683.000.

Usui Kokusai Sangyo Kabushiki Kaisha: *See—*
Hashimoto, Yasuaki. 4,665,876, Cl. 123-468.000.
Kanesaka, Hiroshi. 4,674,688, Cl. 239-533.800.
Saegusa, Shigeru. 4,662,204, Cl. 72-306.000.
Takigawa, Kazunori; and Suzuki, Ryoichi. 4,685,544, 188-273.000.

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Baba, Takeshi; Imataki, Hiroyuki; Usui, Masayuki; Serizawa, Tak shi; and Nose, Hiroyasu. 4,712,882, Cl. 350-413.000.
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Usui, Minoru, to Casio Computer Co., Ltd. Recording apparatus wi random music selection. 4,656,535, 4-7-87, Cl. 360-72.100.

Usui, Mitsuru: *See—*
Yamada, Minoru; Usui, Mitsuru; Masaki, Akira; Nakanishi, Ke chirou; and Tokuda, Masahide. 4,686,606, Cl. 361-385.000.

Usui, Motonori: *See—*
Kitazawa, Yasuhide; Shibagaki, Mikio; and Usui, Motonor 4,676,135, Cl. 84-94.00R.

Usui, Shiro: *See—*
Akai, Takashi; Okamoto, Katsuro; and Usui, Shiro. 4,701,874, C 364-724.000.

Usui, Takahiro: *See*—
Hayashi, Seiichi; Takei, Katsumori; Usui, Takahiro; Yamaguchi, Yoshitaka; and Taniguchi, Makoto, 4,636,258, Cl. 106-31.000.
Usui, Takayuki, to Mitsui & Co., Ltd. Method of preventing retrogradation of foodstuffs. 4,690,829, 9-1-87, Cl. 426-661.000.
Usui, Takeshi, to NEC Corporation. Optical star repeater. 4,646,361, 2-24-87, Cl. 455-601.000.
Usui, Takeshi, to NEC Corporation. Light beam positioner with scan distortion compensation. 4,714,830, 12-22-87, Cl. 250-234.000.
Usui, Yoshinori: *See*—
Itahana, Hiroshi; and Usui, Yoshinori, 4,694,323, Cl. 357-82.000.
Usui, Yuichi: *See*—
Osaka, Keiji; Usui, Yuichi; and Yanagi, Tooru, 4,715,876, Cl. 65-4.210.
Usuki, Yoshikazu: *See*—
Hiraki, Shunichi; Usuki, Yoshikazu; and Takimoto, Kazuhiro, 4,647,472, Cl. 427-39.000.
Usunov, Petko D.: *See*—
Ivanov, Chavdar B.; Mondeshka, Donka M.; Berova, Nikolina D.; Rakovska, Rossitza S.; Panova, Yordanka T.; Markov, Marko T.; Ovcharov, Radi G.; Usunov, Petko D.; and Zabunova, Orhideya B., 4,678,853, Cl. 546-146.000.
USV Pharmaceutical Corporation: *See*—
Brown, Richard E.; St. Georgiev, Vassil; Kropp, Philip; and Locv, Bernard, 4,668,678, Cl. 514-250.000.
Huang, Fu-chih; and Auerbach, Joseph, 4,644,009, Cl. 514-423.000.
Huang, Fu-chih, 4,668,694, Cl. 514-406.300.
Huang, Fu-chin; Jones, Howard; and Chan, Wan-Kit, 4,659,711, Cl. 514-247.000.
Jones, Howard; Magnien, Ernest; Musser, John H.; and Shaikh, Mujahid I., 4,666,909, Cl. 514-225.000.
Kantor, Martin L., 4,681,973, Cl. 560-33.000.
Loev, Bernard; Chan, Wan-Kit; and Jones, Howard, 4,694,023, Cl. 514-559.000.
Musser, John H.; and Brown, Richard E., 4,656,281, Cl. 546-82.000.
Musser, John H.; and Brown, Richard E., 4,698,346, Cl. 514-293.000.
Neiss, Edward S.; Stevenson, David; Ho, Laurence L.; Liu, Robert C.; and Suh, John T., 4,650,854, Cl. 530-307.000.
Neiss, Edward S.; Suh, John T.; and Piwinski, John J., 4,661,515, Cl. 514-471.000.
Piwinski, John J.; Suh, John T.; Menard, Paul; Jones, Howard; Neiss, Edward S.; and Regan, John R., 4,666,906, Cl. 514-222.000.
Suh, John T.; Piwinski, John J.; Jones, Howard; and Neiss, Edward S., 4,696,939, Cl. 514-361.000.
Suh, John T.; and Barton, Jeffrey N., 4,701,461, Cl. 514-317.000.
Youssefyeh, Raymond D.; Skiles, Jerry W.; Suh, John T.; and Jones, Howard, 4,686,295, Cl. 548-226.000.
USX Corporation: *See*—
Diederich, David J., Jr.; and Paddock, John C., 4,711,429, Cl. 266-44.000.
Thompson, James E., 4,703,665, Cl. 74-41.000.
USX Engineers & Consultants, Inc.: *See*—
Ratliff, George D., Jr., 4,706,925, Cl. 249-162.000.
Utagawa, Ken, to Nippon Kogaku K. K. Signal processing apparatus for photoelectric converting element array. 4,674,855, 6-23-87, Cl. 354-403.000.
Utagawa, Ken: *See*—
Kusaka, Yosuke; and Utagawa, Ken, 4,687,917, Cl. 250-201.000.
Ogasawara, Akira; Watanabe, Sakuji; Terui, Nobuhiko; Utagawa, Ken; and Hoshino, Kunihisa, 4,634,851, Cl. 250-204.000.
Utah Medical Products, Inc.: *See*—
Wallace, William D., 4,658,829, Cl. 128-672.000.
Utah Scientific Advanced Development Center, Inc.: *See*—
Fearing, Craig; and Orsburn, Michael L., 4,710,800, Cl. 358-22.000.
Utah State University Foundation: *See*—
Keller, Jack; and Stringham, Glen E., 4,673,128, Cl. 239-1.000.
Morse, Karen W.; and Peters, John L., 4,658,051, Cl. 558-384.000.
Utaka, Katsuyuki: *See*—
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,648,096, Cl. 372-96.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,653,058, Cl. 372-50.000.
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Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,660,934, Cl. 350-320.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,665,527, Cl. 372-96.000.
Akiba, Shigeyuki; Utaka, Katsuyuki; Sakai, Kazuo; and Matsushima, Yuichi, 4,701,930, Cl. 372-96.000.
Sakai, Kazuo; Matsushima, Yuichi; Akiba, Shigeyuki; and Utaka, Katsuyuki, 4,682,196, Cl. 357-30.000.
Utamura, Motoaki: *See*—
Masuhara, Yasuhiro; Utamura, Motoaki; Kashiwai, Shinichi; Yokoyama, Iwao; Murata, Shigeto; Nakao, Toshitsugu; and Maeda, Yuichiro, 4,663,116, Cl. 376-377.000.
Utec B.V.: *See*—
Taylor, Hugh F.; and Theobald, David R., 4,709,686, Cl. 124-67.000.
Utex Industries, Inc.: *See*—
Pippert, Aaron J., 4,672,768, Cl. 43-42.090.
Pippert, Aaron J., 4,700,503, Cl. 43-42.090.
Uthoff, Loren H., Jr., to Eaton Corporation. Backflow passage for rotary positive displacement blower. 4,643,655, 2-17-87, Cl. 418-201.000.
UTI Instrument Co.: *See*—
Lin, Kuo-Chin; and Pickett, Frederick P., 4,689,574, Cl. 324-464.000.
Utica Duxbak Corporation: *See*—
Yacovella, Thomas R., 4,656,065, Cl. 428-17.000.
Utica Enterprises, Incorporated: *See*—
Dacey, Ernest A., Jr., 4,706,489, Cl. 72-450.000.
Utilitech, Incorporated: *See*—
Kinnan, Frank R., 4,697,649, Cl. 175-19.000.
Kinnan, Frank R., 4,697,959, Cl. 405-232.000.
Utility Electronics Industries Co. Ltd.: *See*—
Hung, Michael, 4,715,787, Cl. 417-63.000.
Utlaut, Mark W.: *See*—
Clark, William M., Jr.; Utlaut, Mark W.; Wysocki, Joseph A.; Storms, Edmund K.; Szklarz, Eugene G.; Behrens, Robert G.; Swanson, Lynwood W.; and Bell, Anthony E., 4,670,685, Cl. 313-230.000.
Utley, David L., to National Transdata Systems, Inc. Multi-station data collection system. 4,710,616, 12-1-87, Cl. 235-472.000.
Utley, John D. Cartesian diving toy. 4,662,627, 5-5-87, Cl. 272-8.00N.
Utman, Leslie H.; and Rifkin, M. S. Trailer coupler lock with protective housing. 4,648,618, 3-10-87, Cl. 280-507.000.
Utne, Torleif: *See*—
Reinhold, Donald F.; Utne, Torleif; and Abramson, Newton L., 4,716,246, Cl. 562-446.000.
Utner, Ferdinand: *See*—
Behn, Reinhard; and Utner, Ferdinand, 4,635,164, Cl. 361-306.000.
Behn, Reinhard; and Utner, Ferdinand, 4,656,557, Cl. 361-309.000.
Behn, Reinhard; and Utner, Ferdinand, 4,667,382, Cl. 29-25.420.
Uto, Sachio; Shiba, Masataka; and Oshida, Yoshitada, to Hitachi, Ltd. Exposure apparatus with foreign particle detector. 4,676,637, 6-30-87, Cl. 356-237.000.
Uto, Sachio: *See*—
Oshida, Yoshitada; Shiba, Masataka; Nakashima, Naoto; Nakata, Toshihiko; and Uto, Sachio, 4,701,050, Cl. 356-152.000.
Shiba, Masataka; Uto, Sachio; and Koizumi, Mitsuyoshi, 4,669,875, Cl. 356-237.000.
Uto, Seiryu: *See*—
Torii, Sigeru; Tanaka, Hideo; Sasaoka, Michio; Uto, Seiryu; and Hayase, Syozo, 4,713,452, Cl. 540-358.000.
Utrata, Peter J. Disposable combination scalpel blade and incision irrigator for ophthalmological use. 4,642,090, 2-10-87, Cl. 604-22.000.
Utsugi, Katsuhiko, to Utsugi Optical Laboratory Inc., a part interest. Opthalmoscopic system. 4,699,482, 10-13-87, Cl. 351-206.000.
Utsugi, Mikio, to Fuji Photo Film Co., Ltd. Photographic camera. 4,684,229, 8-4-87, Cl. 354-106.000.
Utsugi, Mikio, to Fuji Photo Film Co., Ltd. Video recording/reproducing camera. 4,695,905, 9-22-87, Cl. 360-33.100.
Utsugi Optical Laboratory Inc.: *See*—
Utsugi, Katsuhiko, 4,699,482, Cl. 351-206.000.
Utsumi, Atsushi; and Hayami, Hiroyuki, to Dainichi-Nippon Cables, Ltd. Image guide. 4,647,153, 3-3-87, Cl. 350-96.250.
Utsumi, Atsushi: *See*—
Hayami, Hiroyuki; and Utsumi, Atsushi, 4,690,500, Cl. 350-96.250.
Utsumi, Isao, to Fuji Photo Film Co., Ltd. Stimulable phosphor sheet conveyance apparatus. 4,701,617, 10-20-87, Cl. 250-327.200.
Utsumi, Isao: *See*—
Tamura, Kaoru; Yasuhiro, Kawai; and Utsumi, Isao, 4,678,180, Cl. 271-296.000.
Utsumi, Itsunori: *See*—
Sasaki, Naoya; Kawauchi, Masataka; Fukudome, Yoshio; Takeda, Fumio; Suzuki, Yoichi; Mirubayashi, Toshio; and Utsumi, Itsunori, 4,653,742, Cl. 271-114.000.
Utsumi, Kazuaki; Ochi, Atsushi; Suzuki, Masanori; and Midorikawa, Mitsuhiro, to NEC Corporation. Method of producing electrostrictive effect element. 4,681,667, 7-21-87, Cl. 204-15.000.
Utsumi, Kazuaki: *See*—
Kurokawa, Yasuhiro; Utsumi, Kazuaki; and Takamizawa, Hideo, 4,650,777, Cl. 501-96.000.
Utsumi, Kuniaki, to Matsushita Electric Industrial Co., Ltd. Method and apparatus for multiplexing digital signals. 4,644,536, 2-17-87, Cl. 370-100.000.
Utsumi, Masahiro: *See*—
Yamaguchi, Nobutaka; Iida, Shinobu; Utsumi, Masahiro; Nasu, Norio; and Tadokoro, Eiichi, 4,663,217, Cl. 428-212.000.
Utsumi, Masatoki: *See*—
Kiri, Kazunari; Toyoda, Mamoru; Utsumi, Masatoki; and Asai, Akio, 4,698,991, Cl. 62-21.000.
Utsumi, Shigeo; Tomitaka, Kichinojyo; and Fukuda, Yujiro, to DiaFoil Company, Limited. Transparent slippery biaxially stretched polyester film. 4,677,188, 6-30-87, Cl. 528-272.000.
Utsumi, Shigeo; Kanesaki, Tateo; Kagiyama, Takashi; Otonari, Satoshi; Ikushima, Koichiro; and Okumura, Norio, to Diafoil Company, Limited. Polyester films suitable for use in magnetic recording media. 4,708,902, 11-24-87, Cl. 428-141.000.
Utsumi, Shigeo: *See*—
Kanesaki, Tateo; Utsumi, Shigeo; and Tomitaka, Kichinojyo, 4,680,217, Cl. 428-141.000.
Utsumi, Takayuki: *See*—
Tano, Touru; Fujita, Akihiro; and Utsumi, Takayuki, 4,668,068, Cl. 354-403.000.
Tano, Touru; Fujita, Akihiro; and Utsumi, Takayuki, 4,692,012, Cl. 354-403.000.

Utsumi, Yoichi: *See*—
Sawada, Shigeru; and Utsumi, Yoichi, 4,670,790, Cl. 358-188.000.
Utsuno, Mitsuo: *See*—
Nagasaka, Hiroyasu; Kamidaira, Kunio; Ino, Hiroshi; and Utsuno, Mitsuo, 4,636,093, Cl. 374-186.000.
Utsunomiya, Shunji; Teramoto, Tsutomu; and Huruta, Tadashi, to Omron Tateisi Electronics Co. Blood pressure measuring apparatus. 4,690,151, 9-1-87, Cl. 128-682.000.
Utsunomiya, Tadashi; Matsumuro, Yasuhiko; Sato, Keishi; Fukahori, Yoshihide; and Ogawa, Masao, to Bridgestone Corporation. Conveyor belt. 4,674,622, 6-23-87, Cl. 198-500.000.
Utsunomiya University: *See*—
Yamada, Yoshifumi; Tanaka, Kunio; and Abe, Zenwemon, 4,651,098, Cl. 324-309.000.
Uttenweiler, Gabriele, heir: *See*—
Rieder, Werner, deceased; Rieder, Margret, heir; Uttenweiler, Gabriele, heir; and Rieder, Barbara, heir, 4,698,941, Cl. 52-81.000.
Utter, Robert E., to American Standard Inc. Anti-rotation coupling for a scroll machine. 4,655,696, 4-7-87, Cl. 418-55.000.
Uttermark, John A., to ADC Telecommunications, Inc. Fiber optic multiplexer. 4,675,861, 6-23-87, Cl. 370-4.000.
Uttke, Russell H. C.: *See*—
Leege, James W.; Stacey, Robert E.; and Uttke, Russell H. C., 4,682,687, Cl. 198-852.000.
Uttner, Alfred: *See*—
Leo, Rolf; Meusel, Karl-Heinz; and Uttner, Alfred, 4,696,506, Cl. 295-38.000.
Uttrachi, Gerald D.: *See*—
De Vito, Joseph; Lyttle, Kevin A.; Sutton, Ronald D.; Westendorf, Alan J.; Larson, Nils E.; and Uttrachi, Gerald D., 4,645,903, Cl. 219-137.00R.
Utts, Bradley K.: *See*—
Tailor, Ramesh C.; and Utts, Bradley K., 4,676,817, Cl. 65-43.000.
Wilt, Michael C.; Utts, Bradley K.; and Toth, Michael L., 4,658,141, Cl. 250-361.00R.
Uttscheid, Georg. Electric overhead trolley conveyor. 4,641,582, 2-10-87, Cl. 104-93.000.
Uttscheid, Georg. Electric overhead trolley conveyor. 4,644,873, 2-24-87, Cl. 105-29.100.
Utumi, Masahiro: *See*—
Miyoshi, Takahito; Okutu, Toshimitu; Utumi, Masahiro; Fujiyama, Masaaki; and Aoki, Nobuo, 4,670,333, Cl. 428-323.000.
Utyamyshev, Rustam I.: *See*—
Babaian, Eduard A.; Gerasimova, Galina A.; Davydov, Anatoly B.; Utyamyshev, Rustam I.; Khromov, Gennady L.; Metelitsa, Vladimir I.; Vikhert, Anatoly M.; Savvateev, Konstantin L.; Piotrovsky, Vladimir K.; and Novikova, Elizaveta B., 4,713,239, Cl. 424-81.000.
Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; and Vyrzhikovskaya, Marina N., 4,643,712, Cl. 604-4.000.
Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; Vyrzhikovskaya, Marina N.; and Smirnov, Boris A., 4,655,218, Cl. 128-321.000.
Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; Vyrzhikovskaya, Marina N.; and Smirnov, Boris A., 4,667,657, Cl. 128-20.000.
Utz, Eberhard: *See*—
Fehrenbach, Siegfried; Herbst, Kurt; Schulz, Wolfgang; and Utz, Eberhard, 4,679,537, Cl. 123-447.000.
Utz, Manfred: *See*—
Angehrn, Guido; and Utz, Manfred, 4,662,650, Cl. 280-789.000.
Uurtamo, Stephen J., to Motorola, Inc. Adaptive monopulse phase/amplitude calibration correction system. 4,642,642, 2-10-87, Cl. 343-165.000.
Uuskallio, Arvo F., to Briggs & Stratton Corporation. Wet priming mechanism for an internal combustion engine. 4,694,792, 9-22-87, Cl. 123-187.50R.
Uuskoski, Klaus: *See*—
Kuivamaki, Ismo; and Uuskoski, Klaus, 4,689,510, Cl. 310-74.000.
Uvex Winter Optik GmbH: *See*—
Wiedner, Klaus, 4,649,577, Cl. 2-436.000.
Uwajima, Takayuki; Fujishiro, Kinya; and Takayama, Kenichiro, to Kyowa Hakko Kogyo Co., Inc. Novel aldehyde oxidase and process for producing same. 4,666,842, 5-19-87, Cl. 435-189.000.
Uwajima, Takayuki; and Aisaka, Kazuo, to Kyowa Hakko Kogyo Co., Ltd. Process for producing N-acetylneuraminate lyase. 4,670,389, 6-2-87, Cl. 435-172.300.
Uwajima, Takayuki; and Ando, Mayumi, to Kyowa Hakko Kogyo Co., Ltd. Process for producing bilirubin oxidase. 4,677,062, 6-30-87, Cl. 435-68.000.
Uwajima, Takayuki; and Aisaka, Kazuo, to Kyowa Hakko Kogyo Co., Ltd. Process for producing neuraminidase. 4,710,470, 12-1-87, Cl. 435-200.000.
Uwano, Tomoki: *See*—
Ogawa, Koichi; Uwano, Tomoki; Kosugi, Hiroaki; and Yamamoto, Junko, 4,700,194, Cl. 343-700.0MS.
Takahashi, Hiroshi; Uwano, Tomoki; Machida, Takashi; and Kitamura Hirokazu, 4,656,441, Cl. 333-33.000.
Uya, Masaru, to Matsushita Electric Industrial Co., Ltd. MOS register for selecting among various data inputs. 4,645,944, 2-24-87, Cl. 307-243.000.
Uya, Masaru, to Matsushita Electric Industrial Co., Ltd. Parallel binary adder. 4,682,303, 7-21-87, Cl. 364-788.000.
Uya, Masaru: *See*—
Nishimichi, Yoshito; Uya, Masaru; and Kaneko, Katsuy 4,709,173, Cl. 307-243.000.
Uyama, Kiyoshi; and Kihara, Yasuhiko, to Nippon Kokan Kabus Kaisha. Method for dehydrating sludge. 4,657,682, 4-14-87, 210-770.000.
Uyama, Tadao: *See*—
Furth, Harold P.; Janos, Alan C.; Uyama, Tadao; and Yama Masaaki, 4,713,208, Cl. 376-137.000.
Uydess, Ian L., to Philip Morris Incorporated. Start-up process for thermophilic denitrification of tobacco. 4,651,759, 3-24-87, 131-297.000.
Uyeda, Alan K.: *See*—
Uyeda, Tim, 4,665,727, Cl. 70-279.000.
Uyeda, Tim, to Uyeda, Alan K.; Phillips, Peter J.; and Gartner, Kl W. Manually operated lock mechanism for bypass of customer op ated electronic digital safe lock. 4,665,727, 5-19-87, Cl. 70-279.00
Uyehara, James H. Baton holder. 4,662,552, 5-5-87, Cl. 224-251.000
Uyterhoeven, Herman: *See*—
Podszun, Wolfgang; Goossens, John; Suling, Carlhans; Hoffar Gunther; Richter, Wolfgang; Uyterhoeven, Herman; and Winter, Walter, 4,639,403, Cl. 430-115.000.
Uyterhoeven, Herman J.; De Winter, Walter F.; and Marien, Aug M_{b} to Agfa-Gevaert N.V. Liquid developer for development electrostatic images. 4,639,404, 1-27-87, Cl. 430-115.000.
Uyterhoeven, Herman J.; Marien, August M.; and De Winter, Wa F., to Agfa-Gevaert, N.V. Liquid electrophoretic developer comp sition. 4,663,265, 5-5-87, Cl. 430-114.000.
Uyterhoeven, Jan B.: *See*—
Jacobs, Julia M.; Jacobs, Pierre A.; and Uytterhoeven, Jan 4,670,620, Cl. 585-640.000.
Jacobs, Pierre A.; Tielen, Mia; and Uytterhoeven, Jan B., 4,656,14 Cl. 502-35.000.
Uzac, Pierre: *See*—
Irio, Francis; Chene, Richard; and Uzac, Pierre, 4,648,157, 24-23.00R.
Uzaki, Nagato; Itoh, Shigeru; Kanayama, Ryoji; Harada, Hisashi; a Kawamura, Yasutaro, to Sintokogio Ltd. Apparatus for making co from green sand. 4,633,928, 1-6-87, Cl. 164-19.000.
Uzawa, Shigeru: *See*—
Saito, Junichi; Tamura, Tatsuo; Kurahashi, Yoshio; Uzaw Shigeru; Matsumoto, Noboru; and Yamaguchi, Naot 4,710,509, Cl. 514-384.000.
Uzawa, Shunichi: *See*—
Hatanaka, Katsunori; Kuroda, Yasuo; and Uzawa, Shunich 4,634,886, Cl. 250-578.000.
Uzawa, Sumiyo; Fujiwara, Tetsuo; Suzuki, Isao; and Endo, Akira, Kabushiki Kaisha Toshiba. Printing wire. 4,652,157, 3-24-87, C 400-124.000.
Uzee, Andre J.: *See*—
Stephens, Keith E.; and Uzee, Andre J., 4,707,522, Cl. 525-334.10
Uzgiris, Egidijus E., to General Electric Company. Method for makin ordered monolayers of macromolecules. 4,634,599, 1-6-87, C 427-2.000.
Uzgiris, Egidijus E.; and Yates, James R., to General Electric Com pany. Method for forming 2-D crystals of proteins and macromole cules. 4,668,584, 5-26-87, Cl. 428-408.000.
UZI R & D Associates: *See*—
Gal, Uzi, 4,640,036, Cl. 42-72.000.
Uzrad, Mordechai. Flexible tube sprinkler. 4,684,066, 8-4-87, C 239-229.000.
Uzuhashi, Hideo: *See*—
Iizuka, Kenichi; Kitayama, Tooru; Uzuhashi, Hideo; and Ach Hideo, 4,709,317, Cl. 363-37.000.
Kobayashi, Minoru; Iizuka, Kenichi; and Uzuhashi, Hideo 4,662,185, Cl. 62-228.400.
Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakami Kanji; Okada, Hisao; Sasaki, Soji; Inose, Shigeru; Suto, Mareo and Uzuhashi, Hideo, 4,665,282, Cl. 178-18.000.
Uzuka, Makoto: *See*—
Hirama, Shinichi; Nishiyama, Toshio; Ohta, Youichi; Uzuka Makoto; Tomita, Kenichi; Nakajima, Keisuke; and Furuse Kazumaro, 4,713,397, Cl. 514-690.000.
Uzzel, Robert G.: *See*—
Thompson, Richard E.; and Uzzel, Robert G., 4,637,498, Cl 188-71.900.
v. d. Ohe, Manfred: *See*—
Hespelt, Achim; and v. d. Ohe, Manfred, 4,705,292, Cl. 280-660.000
v. d. Sar, Jacob C.: *See*—
Chadwick, John C.; and v. d. Sar, Jacob C., 4,663,299, Cl 502-9.000.
v.d. Vlekkert, Hendrik H.; and de Rooy, Nicolaas F., to Sentron v.o.f. Apparatus for determining the activity of an ion (pIon) in a liquid 4,691,167, 9-1-87, Cl. 324-438.000.
v. Deuren, Franciscus A. M., to Norvidan Engineering Nederland B.V. Pelletizing apparatus with mixing blades for compacting powdered and fibrous raw materials to a pellet product. 4,669,966, 6-2-87, Cl. 425-209.000.
V. E. Kuster Company, Inc.: *See*—
King, Lance M., 4,664,531, Cl. 368-140.000.
V-J System AB: *See*—
Jonasson, Vollmar, 4,687,677, Cl. 427-8.000.
V-K Enterprises, Inc.: *See*—
Keedy, Edgar L., 4,688,770, Cl. 266-66.000.
V. Kann Rasmussen & Co.: *See*—
Rasmussen, Villum B. K., 4,672,774, Cl. 49-371.000.

V Kann Rasmussen Holding A/S: *See—*
Sonneborn, Siegfried; Handel, Manfred; Mack, Ernst; Gerstrom, Carl F.; and Sorensen, Peter, 4,654,931, Cl. 16-337.000.
V. Kann Rasmussen Industri A/S: *See—*
Alkjaer, Peter, 4,685,256, Cl. 52-58.000.
Nielsen, Per G.; and Nielsen, Elgard, 4,574,680, Cl. 236-44.00A
Nortoft, Soren B., 4,706,726, Cl. 160-168.00R.
V M E I "LENIN": *See—*
Sabev, Sabi G.; Lasarov, Stefan D.; Todorov, Dimiter B.; Koparanova, Darina K.; and Hristov, Ivan B., 4,667,698, Cl. 137-596.130.
Todorov, Dimiter T.; Djudjev, Slavtcho G.; and Yarumov, Kiril D., 4,672,854, Cl. 73-861.330.
V. M. International, Inc.: *See—*
Vergel, Jorge, Jr., 4,683,724, Cl. 62-85.000.
v. Rotberg, Bernhard: *See—*
Srock, Rainer; Herrmann, Ursula; and v. Rotberg, Bernhard, 4,679,820, Cl. 280-781.000.
V T P "Maimex": *See—*
Dyakov, Nikola G.; Guguchkova-Yanchuleva, Pravoslava T.; and Benchev, Dimiter V., 4,710,196, Cl. 623-6.000.
V. Valhalla Corp.: *See—*
Doran, Denny F., 4,670,256, Cl. 424-93.000.
V. W. Kaiser Engineering, Inc.: *See—*
Smith, Joseph E., 4,635,952, Cl. 280-96.100.
Smith, Joseph E., 4,690,418, Cl. 280-96.100.
VA Inc.: *See—*
Pasquarella, Stephen T., 4,697,221, Cl. 361-156.000.
VA.NI.M s.r.l.: *See—*
Piuma, Adolfo, 4,637,920, Cl. 423-67.000.
Vaal Reefs Mining and Exploration Co., Ltd.: *See—*
McGimpsey, Samuel B., 4,695,219, Cl. 414-787.000.
Vacanti, David C., to Boeing Company, The. Method and apparatus for minimum amplitude time history analysis. 4,670,753, 6-2-87, Cl. 342-90.000.
Vacanti, Eugene J., to Sports Marketing, Inc. Protective cushion. 4,700,403, 10-20-87, Cl. 2-2.000.
Vacca, Alberto; and Vallarino, Angelo, to Minnesota Mining and Manufacturing Company. Photosensitive silver halide material for obtaining half-tone black-and-white images and method for half-tone high-contrast reproduction. 4,659,647, 4-21-87, Cl. 430-264.000.
Vacca, Joseph P.: *See—*
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Huff, Joel R.; Baldwin, John J.; Sakurai, Yojiro; Vacca, Joseph P.; and Guare, James P., Jr., 4,686,226, Cl. 514-285.000.
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Vachek, Markus, to International Concept & Management Aktiengesellschaft. Puzzle cube. 4,662,638, 5-5-87, Cl. 273-160.000.
Vachet, Andre J.: *See—*
Goepfert, Serge P. P.; Renault, Serge A. M.; Roger, Francoise M. M.; Themont, Jean-Pierre; and Vachet, Andre J., 4,683,153, Cl. 428-1.000.
Vachette: *See—*
Girard, Joel; and Gsell, Norbert, 4,667,495, Cl. 70-398.000.
Vachhani, Vasantrai A.; and Humphrey, John W., to Magnetic Controls Co. Electrical connector module. 4,662,699, 5-5-87, Cl. 339-97.00P.
Vachhani, Vasantrai A.; and Bodtmer, Gilbert D., to Magnetic Controls Company. Connector panel. 4,669,799, 6-2-87, Cl. 439-404.000.
Vachhani, Vasantrai A.; and Bodtmer, Gilbert D., to Magnetic Controls Company. Electrical connector. 4,702,544, 10-27-87, Cl. 439-395.000.
Vaclavik, Edwin W.: *See—*
Breach, William D.; and Vaclavik, Edwin W., 4,684,687, Cl. 524-291.000.
Vaclavik, Miroslav: *See—*
Havelka, Jilji; Jirasko, Petr; Koloc, Zdenek; and Vaclavik, Miroslav, 4,643,372, Cl. 242-43.200.
Havelka, Jilji; Jirasko, Petr; Koloc, Zdenek; and Vaclavik, Miroslav, 4,674,696, Cl. 242-43.200.
Vacuum Applied Coatings Corp.: *See—*
Pentak, William F.; and Burkes, Dewey L., 4,652,513, Cl. 430-258.000.
Vacuum Barrier Corporation: *See—*
Stearns, Thornton, 4,715,187, Cl. 62-55.000.
Vacuumschmelze GmbH: *See—*
Hilzinger, Hans-Rainer; Nilius, Hans-Joachim; and Friedrichs, Michael, 4,703,550, Cl. 29-527.600.
Rudolph, Johann, 4,715,207, Cl. 72-268.000.
Vada Systems, Inc.: *See—*
Downing, Gene; and Kozuma, Glen, 4,689,757, Cl. 364-550.000.
Vadakin, Inc.: *See—*
Vadakin, Thomas C.; and Hoenigman, Thomas A., 4,690,159, Cl. 134-167.00C.
Vadakin, Thomas C.; and Hoenigman, Thomas A., to Vadakin, Inc. Rotary cleaning device. 4,690,159, 9-1-87, Cl. 134-167.00C.
Vadas, Zoltan; Belcsak, Zoltan; Papp, Istvan; Wenzel, Bela; and Takacsy, Geza, to Energiagazdalkodasi Intezet. Process for the realization of cogenerative supply of electricity and heat (cogeneration), particularly in industrial power plants. 4,677,307, 6-30-87, Cl. 290-2.000.
Vadasz, Amnon F., to Intevep, S.A.; Vereinigte Edelstahlwerke A.G.; and Oficina Tecnica HGB. Check valve. 4,662,392, 5-5-87, Cl. 137-533.110.
Vaddiparty, Yerriah P., to Ford Aerospace & Communications Corporation. Radial/axial power divider/combiner. 4,647,879, 3-3-87, Cl. 333-127.000.
Vader, Scott J.: *See—*
Martin, Roger J.; McKee, William C.; Vader, Scott J.; and Seymour, Frederick C., 4,687,428, Cl. 425-60.000.
Vaders, Dennis H., to Weyerhaeuser Company. Flail member for debarking trees. 4,640,325, 2-3-87, Cl. 144-208.00J.
Vadetsky, Jury V.: *See—*
Baldenko, Dmitry F.; Bezlepkin, Nikolai P.; Vadetsky, Jury V.; Gusman, Moisei T.; Potapov, Jury F.; and Semenets, Valery L., 4,711,006, Cl. 29-156.40R.
Vadino, Winston A.: *See—*
Hanna, Gayda; and Vadino, Winston A., 4,657,757, Cl. 424-488.000.
Hanna, Gayda; and Vadino, Winston A., 4,695,591, Cl. 514-781.000.
Vadjunec, Carl F. Upright wheelchair. 4,685,693, 8-11-87, Cl. 280-242.0WC.
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Rathi, Ram N.; and Vaerk, Lembit, 4,653,655, Cl. 212-188.000.
Vaerman, Jean F.: *See—*
Mangenet, Gerard Y.; Perruc, Jean; and Vaerman, Jean F., 4,669,104, Cl. 378-58.000.
Vaes, Jos A.: *See—*
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Vaeth, Howard J.: *See—*
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Vaghani, Vallabh V.: *See—*
Flygare, Wayne A.; Vaghani, Vallabh V.; and Readman, John, 4,647,805, Cl. 310-61.000.
Hayden, Howard L.; Vaghani, Vallabh V.; and Readman, John, 4,690,470, Cl. 439-13.000.
Vaglini, Franco, to Siac Industria Accessori Cavaria S.p.A. Devices for applying terminals and similar metal elements to conductors, lengths of elastic material and the like. 4,691,437, 9-8-87, Cl. 29-753.000.
Vagvolgyi, Jeno: *See—*
Szabo, Bela; Vagvolgyi, Jeno; and Feher, Istvan, 4,694,208, Cl. 307-603.000.
Vaha-Vahe, Antti T.: *See—*
Virtanen, Raimo E.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Vaha-Vahe, Antti T.; and Vainio-Kivinen, Outi M., 4,670,455, Cl. 514-396.000.
Vahabzadeh, Hamid, to General Motors Corporation. Continuously variable transmission and control. 4,684,358, 8-4-87, Cl. 474-148.000.
Vahabzadeh, Hamid, to General Motors Corporation. Ratio control system for a continuously variable transmission. 4,710,879, 12-1-87, Cl. 364-424.100.
Vahabzadeh, Hamid: *See—*
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Vahey, David W.: *See—*
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Vahjen, Bruce: *See—*
Cedrone, Louis A.; Vahjen, Bruce; Garton, Richard T.; Williams, Thomas F.; and Winsor, Malcolm C., 4,699,295, Cl. 221-108.000.
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Sundermann, Erich; Laurien, Hanno; Vahlbrauk, Wolfgang; and Reye, Hans, 4,664,623, Cl. 432-14.000.
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Vahlenkamp, Hans H.; and Calabrese, Frank A., to BASF Corporation. Phthalic anhydride process and product. 4,659,842, 4-21-87, Cl. 549-247.000.
Vahlensieck, Hans-Joachim: *See—*
Groh, Reiner; Kotzsch, Hans-Joachim; Srebny, Hans-Gunther; and Vahlensieck, Hans-Joachim, 4,642,363, Cl. 556-471.000.
Kotzsch, Hans-Joachim; and Vahlensieck, Hans-Joachim, 4,647,681, Cl. 556-411.000.
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Vahlstrom, Richard; and Keats, Dennis R., to McDonnell Douglas Corporation. Computer read next instruction system. 4,651,276, 3-17-87, Cl. 364-200.000.
Vahs, Wilhelm: *See—*
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Vahteri, Risto T.: *See—*
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Vaicaitis, Rimas, to United States of America, National Aeronautics and Space Administration. Acoustic guide for noise-transmission testing of aircraft. 4,644,794, 2-24-87, Cl. 73-583.000.
Vaida, Robert; and Osthus, Harold, to Gerber Garment Technology, Inc. Escapement mechanism. 4,667,602, 5-26-87, Cl. 104-253.000.

Vaiden, John C., to Simmonds Precision. Gear motor decoupling device. 4,637,501, 1-20-87, Cl. 192-20.000.

Vaidya, Avinash K., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Reliable synchronous inter-node communication in a self-routing network. 4,670,871, 6-2-87, Cl. 370-60.000.

Vaidya, Sheila: *See*—
Lepselter, Martin P.; Sinha, Ashok K.; and Vaidya, Sheila, 4,675,715, Cl. 357-59.000.

Vaige, Moshe: *See*—
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Vaikness, Gerald P.: *See*—
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Vail, Curtis F.; and Witzke, Duane W., to Hoover Universal, Inc. Seat assembly with foam encapsulated load-supporting fibrous matrix. 4,702,522, 10-27-87, Cl. 297-452.000.

Vail, Kenneth E., Jr.: *See*—
Vail, Kenneth E., Sr.; and Vail, Kenneth E., Jr., 4,705,178, Cl. 211-126.000.

Vail, Kenneth E., Sr.; and Vail, Kenneth E., Jr. Wire cube for use in a modular display rack. 4,705,178, 11-10-87, Cl. 211-126.000.

Vail, Lawrence D.: *See*—
Lok, Brent M.; Vail, Lawrence D.; and Flanigen, Edith M., 4,683,217, Cl. 502-214.000.

Vail, Martha; Megraw, Robert E.; and Hoskins, Michael K., to Ciba Corning Diagnostics Corp. Estrogen-progesterone control reagents and methods for making same. 4,663,295, 5-5-87, Cl. 436-18.000.

Vail, Philip G., Jr. Swiveling wind scoop. 4,706,593, 11-17-87, Cl. 114-211.000.

Vail, William B., III; and Schwinberg, Paul B., to ParaMagnetic Logging, Inc. Oil well logging tools measuring paramagnetic logging effect for use in open boreholes and cased well bores. 4,656,422, 4-7-87, Cl. 324-303.000.

Vailancourt, Vincent L., to Sherwood Medical Company. Lubricant composition, method of coating and a coated intubation device. 4,705,709, 11-10-87, Cl. 428-36.000.

Vaile, James T.: *See*—
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Vaillancourt, Marilyn L. Convertible pierced-earlobe earring. 4,682,477, 7-28-87, Cl. 63-12.000.

Vaillancourt, Steven, to TRW Inc. Fault-tolerant memory system. 4,653,050, 3-24-87, Cl. 371-10.000.

Vaillancourt, Vincent L., to Chesebrough-Pond's Inc. Intubating device. 4,636,200, 1-13-87, Cl. 604-170.000.

Vaillancourt, Vincent L. Flexible filter disposed within flexible conductor. 4,636,313, 1-13-87, Cl. 210-436.000.

Vaillancourt, Vincent L. Vascular access implant needle patch. 4,645,495, 2-24-87, Cl. 604-180.000.

Vaillancourt, Vincent L., to Manresa, Inc. Closed system catheter with guide wire. 4,652,256, 3-24-87, Cl. 604-52.000.

Vaillancourt, Vincent L., to Manresa, Inc. Closed system catheter with guide wire. 4,655,750, 4-7-87, Cl. 604-165.000.

Vaillancourt, Vincent L. Sterile catheter securement device. 4,678,462, 7-7-87, Cl. 604-180.000.

Vaillancourt, Vincent L.; and Kocanowski, Stephen, to VLV Associates. Wire guide. 4,682,607, 7-28-87, Cl. 128-772.000.

Vaillancourt, Vincent L., to Manresa, Inc. Medicator securing device. 4,704,177, 11-3-87, Cl. 156-226.000.

Vaillancourt, Vincent L. Multidose disposable syringe and method of filling same. 4,715,854, 12-29-87, Cl. 604-191.000.

Vaillant, Daniel: *See*—
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Vaillant, Robert: *See*—
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Vairel, Edmond G.; Brouty-Boye, Huguette; Toulemonde, Francis; and Doutremepuich, Christian, to Choay S.A. Method and composition for thrombolytic treatment. 4,687,765, 8-18-87, Cl. 514-56.000.

Vajda, Vladimir; Nebelung, Hermann H.; and Piesbergen, Ulrich, to Emhart Industries, Inc. Forming a gob of molten glass into a parison. 4,662,923, 5-5-87, Cl. 65-29.000.

Vajgart, Jeffery L.: *See*—
Vrabel, Robert J.; Vajgart, Jeffery L.; Staszel, Lawrence E.; Ewald, Henry J.; Haygood, Norman M., Jr.; and Misewicz, Leon M., 4,678,975, Cl. 318-266.000.

Vajna, Sandor; and Peuschel, Gerd, to Kali und Salz. Process f production of potassium sulfate from potassium chloride by me ion exchangers. 4,707,347, 11-17-87, Cl. 423-552.000.

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Vajs, Lubomir; and Vajs, Helena, 4,665,644, Cl. 43-82.000.

Vajs, Lubomir; and Pettit, Daniel M., to Vajs, Helena; and Pettit Marie. Fire retardant. 4,663,226, 5-5-87, Cl. 428-305.500.

Vajs, Lubomir; and Vajs, Helena. Mouse and rat trap. 4,66 5-19-87, Cl. 43-82.000.

Vajtay, Laselo, deceased (by Vajtay, Stephen M., executor), to Corporation. Tubular package and end cap forming compon same. 4,700,883, 10-20-87, Cl. 229-125.170.

Vajtay, Stephen M., executor: *See*—
Vajtay, Laselo, deceased, 4,700,883, Cl. 229-125.170.

Vakil, Bharat N., to Allied Corporation. Color enhancement for d device. 4,652,869, 3-24-87, Cl. 340-703.000.

Val, Christian; Pinel, Joseph; and Gibod, Yves B., to Compagnie formatique Militaire, Spatiale et Aeronautique. Radiation-har casing for an electronic component. 4,639,826, 1-27-87 361-272.000.

Val, Christian, to Compagnie d'Informatique Militaire Spati Aeronautique. Electronic component box supplied with a cap 4,654,694, 3-31-87, Cl. 357-74.000.

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Val Products, Inc.: *See*—
Steudler, Frederick W., Jr., 4,660,509, Cl. 119-72.500.
Steudler, Frederick W., Jr., 4,669,422, Cl. 119-72.000.

Val, Rene: *See*—
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Vala, John: *See*—
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Valaas, Andrew M., to Boeing Company, The. Aircraft aut braking system. 4,646,242, 2-24-87, Cl. 364-426.000.

Valachovic, Richard A.: *See*—
Cox, Frederick E.; Rink, Frederick J., Jr.; and Valachovic, R A., 4,710,664, Cl. 310-217.000.

Valadez, Frank R.: *See*—
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Valasek, Gary M., to Intercontinental Chemical Corporation. P screen cleaning and reclaiming compositions. 4,664,721, 5-12 134-26.000.

Valasquez, Jose R.: *See*—
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Valbona, Bruno M.; Satkunas, Bruno; and Brym, Stanley J., to D ics Corporation of America. Conversion unit for a portable han appliance and convertible mixer combination utilizing 4,645,352, 2-24-87, Cl. 366-349.000.

Valbusa, Luigi; Coraluppi, Enzo; Quaglia, Andrea; and Tavella, to Minnesota Mining and Manufacturing Company. Proce forming direct positive images, direct positive silver halide ele compositions and compounds as characteristics feature of suc cesses and elements. 4,636,457, 1-13-87, Cl. 430-267.000.

Valchar, Martin: *See*—
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Valcho, Joseph J.: *See*—
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Valco/Valley Tool & Die, Inc.: *See*—
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Heekin, Theodore R., 4,714,373, Cl. 403-402.000.

Valcour Incorporated: *See*—
Pontiff, Thomas M.; and Collins, Frederick H., 4,702,86 264-50.000.

Valdemarsson, Stefan: *See*—
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Valdes, Guillermo A. Landing gear drive system. 4,659,039, 4-21 244-103.500.

Valdes-Neri, Jaime; Gomez-Sanchez, Abel; and Calderon-Qu Miguel H., to Vitrocrisa Cristaleria, S.A. Apparatus for loadi unloading articles at machines for cutting off excess ends of glass, plastic or similar articles. 4,687,503, 8-18-87, Cl. 65-174

Valdes, Osvaldo J. Hydroelectric switch for controlling electric driven pump. 4,659,291, 4-21-87, Cl. 417-44.000.

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Valdez, Loredana G. Cigar or cigarette holder. 4,685,477, 8-11 131-175.000.

Valditerra, Enrico. Railway train set for the renewal of railway with support and advancement guide means. 4,643,100, 2-17 104-2.000.

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Rivier, Jean E. F.; and Vale, Wylie W., Jr., 4,652,55 514-15.000.
Rivier, Jean E. F.; Varga, Janos L.; Hagler, Arnold T.; Struth Scott; Perrin, Marilyn H.; Rivier, Catherine L.; and Vale, W., Jr., 4,661,472, Cl. 514-15.000.
Rivier, Jean E. F.; Anderson, Harry A.; and Vale, Wylie 4,677,193, Cl. 530-313.000.

Rivier, Jean E. F.; Spiess, Joachim; and Vale, Wylie W., Jr., 4,703,035, Cl. 514-12.000.
Roeske, Roger W.; Rivier, Jean E. F.; and Vale, Wylie W., Jr., 4,689,396, Cl. 530-313.000.

Valek, David A.: *See*—
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Valence, Marc: *See*—
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Valencia, Vance L., to Maxwell Laboratories, Inc. Symmetrically charged pulse-forming circuit, 4,684,820, 8-4-87, Cl. 307-106.000.

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Valenta, Harry L., Jr.: *See*—
Nappholz, Tibor A.; Lubin, Mark; and Valenta, Harry L., Jr., 4,702,253, Cl. 128-419.0PG.

Valenta, Robert J., to Packard Instrument Company, Inc. Reduced background scintillation counting, 4,651,006, 3-17-87, Cl. 250-362.000.

Valente, Fredrick A.: *See*—
Pinkham, Raymond; Valente, Fredrick A.; Guttag, Karl M.; and Vanaken, Jerry R., 4,648,077, Cl. 365-240.000.
Pinkham, Raymond; and Valente, Fredrick A., 4,667,313, Cl. 365-240.000.

Valenti, Andrew: *See*—
Cramer, Eva B.; Milks, Linda C.; Conyers, Gregory P.; Valenti, Andrew; and Perez, Antonio, 4,686,190, Cl. 435-291.000.

Valenti, Salvatore: *See*—
Heller, Jurg; Kissling, Bruno; Robinson, Tibor; and Valenti, Salvatore, 4,645,511, Cl. 8-549.000.

Valentin, Jean-Pascal: *See*—
Besson, Raymond; Delaite, Richard; Genestier, Gerard; Maitre, Pierre; Renard, Georges; Thiebaud, Daniel; and Valentin, Jean-Pascal, 4,705,982, Cl. 310-356.000.

Valentin, Peter: *See*—
Laske, Gerd; and Valentin, Peter, 4,683,667, Cl. 34-203.000.

Valentin, Walter: *See*—
Gawrisch, Wolfgang; Valentin, Walter; and Czepl, Helmut, 4,692,026, Cl. 356-345.000.

Valentine, Donald H.: *See*—
Grate, John H.; Hamm, David R.; and Valentine, Donald H., 4,705,883, Cl. 560-25.000.

Valentine, Peter Z.; Vitaliano, Franco; and Smith, Ivor S., to Valentine, Peter Z. Construction of handbar for runners, 4,659,076, 4-21-87, Cl. 272-93.000.

Valentine, Richard D.: *See*—
Crane, Herbert R.; and Valentine, Richard D., 4,657,188, Cl. 239-557.000.

Valentine, William, to Dynagram Corporation of America. Quick-liquifying, chewable tablet, 4,684,534, 8-4-87, Cl. 427-3.000.

Valentini, Jose E., to Du Pont de Nemours, E. I., and Company. Multi-roll web support arrangement, 4,704,803, 11-10-87, Cl. 34-9.000.

Valentino, James A., to Metropolitan Life Insurance Company. Method and apparatus for benefit and financial communication, 4,648,037, 3-3-87, Cl. 364-408.000.

Valentino, Pete. Joining together parts of musical instruments, 4,635,525, 1-13-87, Cl. 84-453.000.

Valenty, Vivian B.; Hill, William H.; and Ravi, Prasad S., to A. E. Staley Manufacturing Company. Detergent builder, 4,639,325, 1-27-87, Cl. 252-89.100.

Valenty, Vivian B., to General Electric Company. Method of making diglyme soluble siloxane-imide copolymers, 4,701,511, 10-20-87, Cl. 528-26.000.

Valenzky, David; and Markhart, Gary T., to Farrell Corporation. Control system and method for continuous mixer with moving surface discharge device, 4,707,139, 11-17-87, Cl. 366-77.000.

Valenzuela, Pablo: *See*—
Kuo, George; Masiarz, Frank R.; Truett, Martha; Valenzuela, Pablo; Rasmussen, Mirella E.; and Favaloro, Jennifer, 4,716,117, Cl. 435-240.270.

Valeo: *See*—
Alas, Jacques, 4,634,398, Cl. 464-68.000.
Alas, Jacques; and Paolo, Rumignani, 4,650,050, Cl. 192-70.120.
Alas, Jacques; and Graton, Michel, 4,669,592, Cl. 192-106.200.
Alas, Jacques; and Graton, Michel, 4,697,682, Cl. 192-106.200.
Alas, Jacques; and Bacher, Michel, 4,714,148, Cl. 192-107.00C.
Ap, Ngy S., 4,685,430, Cl. 123-142.50R.
Bacher, Michel; and Rumignani, Paolo, 4,635,779, Cl. 192-89.00B.
Beccaris, Carlo; and Lanzarini, Ernesto, 4,634,397, Cl. 464-68.000.
Beccaris, Carlo; and Marchisio, Aldo, 4,676,356, Cl. 192-70.280.
Billet, Rene; and Bacher, Michel, 4,635,776, Cl. 192-70.270.
Billet, Rene, 4,637,506, Cl. 192-110.00B.
Billet, Rene; and Bacher, Michel, 4,650,051, Cl. 192-70.120.
Billet, Rene ; and Bionaz, Jean, 4,667,470, Cl. 60-338.000.
Billet, Rene , 4,689,954, Cl. 60-338.000.
Billet, Rene ; Mousston, Roland; and Bionaz, Jean, 4,697,417, Cl. 60-338.000.
Billet, Rene ; Rumignani, Paolo; and Chasseguet, Gustave, 4,698,045, Cl. 464-68.000.
Blond, Marcel; and Dufau, Philippe, 4,666,024, Cl. 192-70.160.
Blond, Marcel, 4,688,666, Cl. 192-106.200.
Bouvot, Jean-Francois; and LeBorgne, Jose, 4,638,723, Cl. 92-48.000.
Bouvot, Jean-Francois, 4,665,799, Cl. 91-375.00R.
Bouvot, Jean-Francois; and LeBorgne, Jose , 4,703,684, Cl. 92-48.000.
Carmillet, Roger; Graton, Michel; and Bacher, Michel, 4,655,337, Cl. 192-106.200.
Carmillet, Roger; Graton, Michel; and Bacher, Michel, 4,674,992, Cl. 464-68.000.
Carmillet, Roger; Graton, Michel; and Bacher, Michel, 4,685,896, Cl. 464-68.000.
Despres, Dominique; and Lassiaz, Philippe, 4,648,499, Cl. 192-98.000.
Focqueur, Herve ; and Jumel, Bernard, 4,714,448, Cl. 464-68.000.
Gay, Christian; and Lassiaz, Philippe, 4,697,681, Cl. 192-98.000.
Graton, Michel; and Carmillet, Roger F., 4,697,683, Cl. 192-107.00C.
Grunberg, Pierre, 4,651,855, Cl. 192-0.032.
Grunberg, Pierre; Hamelin, Rene-Louis; and Arhab, Rabah, 4,671,400, Cl. 192-111.00A.
Grunberg, Pierre, 4,712,658, Cl. 192-0.033.
Herbulot, Jean; and Escaillas, Gerard, 4,648,498, Cl. 192-94.000.
Herbulot, Jean; and Escaillas, Gerard, 4,655,332, Cl. 192-70.280.
Huber, Alain, 4,696,384, Cl. 192-70.270.
Jaccod, Michel, 4,639,238, Cl. 474-8.000.
Jaccod, Michel, 4,668,208, Cl. 474-43.000.
Lassiaz, Philippe, 4,643,286, Cl. 192-98.000.
Lassiaz, Philippe; and Mallet, Bernard, 4,646,901, Cl. 192-109.00A.
Lassiaz, Philippe; and Mallet, Bernard, 4,660,701, Cl. 192-98.000.
Lassiaz, Philippe; and Mallet, Bernard, 4,667,800, Cl. 192-98.000.
Loup, Didier, 4,690,366, Cl. 248-676.000.
Marchisio, Aldo; and Beccaris, Carlo, 4,690,659, Cl. 464-68.000.
Martinez-Corral, Cecilio, 4,655,333, Cl. 192-70.270.
Martinez-Corral, Cecilio; and Lacal-Ruiz, Pedro, 4,667,794, Cl. 192-70.120.
Naudin, Jacky, 4,655,331, Cl. 192-70.180.
Naudin, Jacky, 4,690,259, Cl. 192-70.280.
Naudin, Jacky, 4,697,679, Cl. 192-70.180.
Potier, Michel, 4,665,972, Cl. 165-76.000.
Potier, Michel, 4,682,650, Cl. 165-173.000.
Potier, Michel, 4,705,104, Cl. 165-149.000.
Renaud, Pierre; and Lassiaz, Philippe, 4,664,241, Cl. 192-98.000.
Sevennec, Yvon; and Arhab, Rabah, 4,650,056, Cl. 192-90.000.
Thirion de Briel, Jacques; and Jaccod, Michel, 4,639,239, Cl. 474-8.000.
Valier, Carlo, 4,655,334, Cl. 192-89.00B.
Valier, Marco, 4,660,626, Cl. 165-76.000.

Valeron Corporation, The: *See*—
Mathie, Gerald W., 4,654,955, Cl. 29-568.000.

Valet, Gunter; Ruhenstroth-Bauer, Gerhard; Wunsch, Erich; and Moroder, Luis, to Max-Planck-Gesellschaft zur Foerderung der Wissenschaften E.V. Process for determining the pH value in the interior of a cell, 4,677,060, 6-30-87, Cl. 435-29.000.

Valeur, Bjorn E., to Electronic Instrument & Specialty Corp. Zero-current a.c. switching system, 4,670,810, 6-2-87, Cl. 361-5.000.

Valev, Marco S.: *See*—
Cermanov, Atanas S.; Kazarov, Ljubomir R.; Valev, Marco S.; Jelyazcov, Jelyazco C.; and Kolev, Rusy C., 4,641,791, Cl. 241-66.000.

Valhi, Inc.: *See*—
Craig, Clark E., 4,705,326, Cl. 312-221.000.
Craig, Clark E., 4,715,201, Cl. 70-369.000.

Vali, Enn, to Westinghouse Canada Inc. Variable bandwidth low-pass filter for line tracer accuracy control, 4,641,021, 2-3-87, Cl. 250-202.000.

Vali, Enn, to Westinghouse Canada Inc. Pattern tracer with dual scan slowdown circuit, 4,659,918, 4-21-87, Cl. 250-202.000.

Valias-Jean, Frantz: *See*—
Chang, Victor A.; Reyes, Angel A.; Jegers, Martin P.; and Valias-Jean, Frantz, 4,649,092, Cl. 429-217.000.

Valid Logic Systems: *See*—
Widdoes, L. Curtis, Jr., 4,635,218, Cl. 364-578.000.

Validation Systems, Inc.: *See*—
Ostroski, Joseph; and Briski, Lawrence M., 4,666,027, Cl. 194-203.000.

Valier, Carlo, to Valeo. Clutch cover and clutch cover assembly, 4,655,334, 4-7-87, Cl. 192-89.00B.

Valier, Marco, to Valeo. Heat exchanger in particular a radiator for a motor vehicle cooling circuit, 4,660,626, 4-28-87, Cl. 165-76.000.

Valimaki, Pentti: *See*—
Antikainen, Jorma; Olsoni, Yrjo; and Valimaki, Pentti, 4,693,360, Cl. 198-509.000.

Valimaki, Yrjo: *See*—
Raninen, Jaakko; Savioja, Heikki; Koivula, Antti; Saariaho, Jorma; Sihto, Reijo; and Valimaki, Yrjo, 4,641,466, Cl. 52-171.000.

Valimont, James L.; and Dumbris, Alan L., to PPG Industries, Inc. Method for manufacturing a laminated window. 4,704,174, 11-3-87, Cl. 156-101.000.

Valint, Paul L.: *See—*
Bock, Jan; Valint, Paul L.; and Pace, Salvatore J., 4,702,319, Cl. 166-275.000.

Valiulis, Stanley C., to Southern Imperial, Inc. Bracket for a grid-type rack. 4,697,712, 10-6-87, Cl. 211-187.000.

Valkestijn, Leonardus: *See—*
Barbu, Stefan; Valkestijn, Leonardus; and van de Kerkhof, Franciscus A. M., 4,695,839, Cl. 340-825.060.

Valkov, Lyudmil K.: *See—*
Rasheva, Ivanka A.; Valkov, Lyudmil K.; Rashev, Tzolo V.; and Stovanov, Stoyan M., 4,669,087, Cl. 373-50.000.

Valkovich, Phillip B.; and Chou, Kechia J., to Texaco Inc. Lubricating oil containing a polymer having a functionalized backbone which contains an electron withdrawing group. 4,659,491, 4-21-87, Cl. 252-47.500.

Valla, Jean: *See—*
Abbes, Claude; Rouaud, Christian; Valla, Jean; Forges, Robert; and de Villepoix, Raymond, 4,640,530, Cl. 285-18.000.

Vallally, Cecil O. Retrieval device. 4,646,843, 3-3-87, Cl. 166-372.000.

Vallana, Franco: *See—*
Arru, Piero; Bona, Gioachino; Curcio, Maria; and Vallana, Franco, 4,666,442, Cl. 623-2.000.

Vallarino, Angelo: *See—*
Vacca, Alberto; and Vallarino, Angelo, 4,659,647, Cl. 430-264.000.

Vallauri, Ubaldo; and Lombardi, Gino, to Societa' Cavi Pirelli S.p.A. Cable joint monolithic sleeve installing apparatus. 4,654,241, 3-31-87, Cl. 428-36.000.

Valle, Francesco D.; and Romeo, Aurelio, to Fidia S.p.A. Preparation of halogenated phenols. 4,704,469, 11-3-87, Cl. 560-065.000.

Valle, Franco; and Musso, Pietro, to Ing. C. Olivetti & C., S.p.A. Actuation device for two typewriter functions. 4,637,744, 1-20-87, Cl. 400-185.000.

Valle, Louis G.; and Voss, Robert J., to Beatrice Foods. Pleated fabric window covering cord lock. 4,651,795, 3-24-87, Cl. 160-178.00C.

Valle, Louis G.; Luoto, Donald W.; and Voss, Robert J., to Beatrice Companies, Inc. Tilter apparatus for a slatted window covering. 4,676,292, 6-30-87, Cl. 160-176.00R.

Valle, Ornan: *See—*
Porteous, Don D.; and Valle, Ornan, 4,648,906, Cl. 106-35.000.

Valle, Robert: *See—*
Schutz, Willi; and Valle, Robert, 4,647,730, Cl. 200-6.00R.

Vallee, Antoine; and Cortinchi, Henri, to Arjomari-Prioux. Material in sheet form, convertible into a finished product by moulding-stamping or heat-shaping, comprising reinforcing fibers and a thermoplastics resin in power form, and process for preparing said material. 4,645,565, 2-24-87, Cl. 162-123.000.

Vallee, Eric: *See—*
Bayol, Alain; Lansen, Jacqueline; Meffrand, Jean P.; Pereillo, Jean-Marie; and Vallee, Eric, 4,699,900, Cl. 514-54.000.

Vallee, Gerard: *See—*
Marsault, Jean-Jacques; Peyrelongue, Jean-Pierre; Semedard, Jean-Claude; and Vallee, Gerard, 4,679,755, Cl. 248-74.100.
Semedard, Jean-Claude; Marsault, Jean-Jacques; Peyrelongue, Jean-Pierre; and Vallee, Gerard, 4,640,480, Cl. 248-62.000.

Vallejo, Alfonso P.: *See—*
Arechaga, Sabastian J.; Granell, Jose O. O.; Linan, Carmen S.; Vallejo, Alfonso P.; and Gabarro, Jose A. P., 4,690,945, Cl. 514-448.000.

Vallender, Leonard J.: *See—*
Hannon, Charles N.; and Vallender, Leonard J., 4,673,158, Cl. 249-144.000.

Vallet, Marc; and Rinaldi, Claude. Ejection coupling for an injection press. 4,676,474, 6-30-87, Cl. 249-68.000.

Vallet, Robert. Process for the noncoherent demodulation of a digital signal. 4,656,648, 4-7-87, Cl. 375-80.000.

Valley, Charles R.; and Valley, Patricia A. Shopping cart child support device. 4,674,758, 6-23-87, Cl. 280-33.99B.

Valley, Charles R., to United States of America, Air Force. Solar cell coverslide extraction apparatus. 4,675,067, 6-23-87, Cl. 156-345.000.

Valley Craft, Inc.: *See—*
Sutton, Jerome L., 4,669,949, Cl. 414-786.000.

Valley, Harold J. Faucet valve with adjustable stem tightener. 4,678,002, 7-7-87, Cl. 137-315.000.

Valley Industries, Inc.: *See—*
Zindler, Hugh A., 4,705,148, Cl. 192-8.00R.

Valley, Patricia A.: *See—*
Valley, Charles R.; and Valley, Patricia A., 4,674,758, Cl. 280-33.99B.

Valley Printing Company Limited: *See—*
Haggas, Robert H., 4,676,753, Cl. 434-155.000.

Valley Tissue Packaging, Inc.: *See—*
Chaffey, Lloyd S., 4,651,500, Cl. 53-204.000.

Valleylab, Inc.: *See—*
Harris, Frank W.; and Hulett, Frederick M., 4,658,819, Cl. 128-303.130.
Klicek, Michael S., 4,658,820, Cl. 128-303.140.
Lundquist, Ingemar, 4,642,098, Cl. 604-123.000.
Lundquist, Ingemar H., 4,667,575, Cl. 92-98.00R.
Sieverding, David L., 4,699,146, Cl. 128-640.000.

Valli, Bruno, to Olympus Winter & Ibe, GmbH. High frequency resection endoscope with movement actuated switch. 4,644,950, 2-24-87, Cl. 128-303.150.

Valli, Laila S. Undergarment with inclusive shoulder pads. 4,67[illegible] 6-30-87, Cl. 2-268.000.

Valliere, Yves: *See—*
Granier, Georges; and Valliere, Yves, 4,690,063, Cl. 102-530.

Vallieres, Francois, to Jacobs, Andrew, a part interest. Sports cover. 4,713,895, 12-22-87, Cl. 36-1.500.

Vallin, Didier: *See—*
Chenebault, Philippe; and Vallin, Didier, 4,663,252, 429-101.000.

Vallomy, John A., to Intersteel Technology, Inc. Method and appa for continuously charging a steelmaking furnace. 4,681,537, 7-[illegible] Cl. 432-242.000.

Vallone, Joseph: *See—*
Petkovic-Luton, Ruzica; and Vallone, Joseph, 4,647,304, C 0.50R.

Vallourec: *See—*
Douchy, Michel, 4,708,897, Cl. 428-36.000.
Fillet, Pierre R., 4,691,791, Cl. 175-320.000.
Grare, Didier; and Salkin, Herve, 4,700,576, Cl. 73-761.000.
Peytavin, Pierre, 4,641,513, Cl. 72-214.000.
Peytavin, Pierre, 4,658,617, Cl. 72-44.000.
Peytavin, Pierre, 4,713,955, Cl. 72-208.000.
Plaquin, Bernard; and Fradin, Louis, 4,665,780, Cl. 82-1.00C.
Plaquin, Bernard A.; and Fradin, Louis, 4,641,410, Cl. 29-40[illegible]

Vallourec S.A.: *See—*
Jour, Jean-Marc; and Peytavin, Pierre, 4,660,398, Cl. 72-100.

Valls, Jose E., to Vassallo Research & Development Corpor Composite gasket and fitting including same. 4,627,618, 1-20-8 277-152.000.

Valls, Jose E., to Vassallo Research & Development Corpor Composite gasket and fitting including same. 4,693,483, 9-15-8 277-207.00A.

Valmet-Dominion Inc.: *See—*
Futcher, Ralph J., 4,677,762, Cl. 34-114.000.
Malashenko, Alexander; and Stock, Norman A., 4,648,94 162-300.000.
Smith, Rodney M.; and Masek, Jiri, 4,641,569, Cl. 92-43.000.

Valmet Oy: *See—*
Anttila, Arjo; Paloposki, Risto; and Kruger, Keijo, 4,655,66 414-458.000.
Aula, Jouko; and Kerttula, Reima, 4,693,784, Cl. 162-202.00
Autio, Markku, 4,657,634, Cl. 162-199.000.
Autio, Markku, 4,699,692, Cl. 162-199.000.
Bergius, Rauno; Rautjarvi, Risto; Kemppi, Matti; and To Alpo, 4,669,566, Cl. 180-139.000.
Eskelinen, Pekka, 4,694,587, Cl. 34-23.000.
Hannukainen, Hannu, 4,658,908, Cl. 172-10.000.
Ilmoniemi, Erkki; Koskimies, Jouni; Lyytinen, Markku; Pitk Kari; and Ottelin, Esa, 4,687,548, Cl. 162-216.000.
Kamarainen, Jorma, 4,710,060, Cl. 405-166.000.
Kerttula, Reima; and Viitanen, Olavi, 4,684,443, Cl. 162-255.
Kerttula, Reima, 4,692,215, Cl. 162-289.000.
Laapotti, Jorma, 4,673,462, Cl. 162-301.000.
Malkki, Raimo; Kuisma, Antti; and Verkasalo, Matti, 4,634,09 242-65.000.
Niskanen, Hannu, 4,633,961, Cl. 180-53.700.
Pitkajarvi, Kari, 4,683,027, Cl. 162-199.000.
Verkasalo, Matti, 4,653,395, Cl. 100-38.000.
Verkasalo, Matti, 4,675,487, Cl. 219-10.430.

Valmet Paper Machinery, Inc.: *See—*
Falk, Carl H., 4,711,404, Cl. 242-56.00R.

Valmet-Strecker GmbH: *See—*
Goetz, Willi, 4,705,226, Cl. 242-56.00R.
Goetz, Willi, 4,708,300, Cl. 242-58.100.

Valmont Industries, Inc.: *See—*
Ostrom, Carl R.; and Chapman, John A., 4,660,775 239-727.000.

Valom, Barteld: *See—*
Clarke, Peter T.; and Valom, Barteld, 4,688,296, Cl. 17-1.00

Valone, Frederick W., to Texaco Inc. Corrosion inhibiting containing alkoxylated amines. 4,636,256, 1-13-87, Cl. 106-14.1

Valone, Frederick W., to Texaco Inc. Inhibition of microbiol growth. 4,647,589, 3-3-87, Cl. 514-627.000.

Valor Heating Limited: *See—*
Wright, Peter, 4,674,973, Cl. 431-284.000.

Valot, Eduardo A. Soap-cakes with mounting and locking me support-arms thereof. 4,688,751, 8-25-87, Cl. 248-359.00D.

Valoti, Ermanno: *See—*
Verga, Alberto; Piccolo, Oreste; and Valoti, Ermanno, 4,69 Cl. 548-224.000.

Valperga, Gaspare: *See—*
Franchino, Domenico; Pantet, Ettore; Libre, Luigi; and Val Gaspare, 4,694,273, Cl. 340-58.000.

Valsamakis, Emmanuel A.: *See—*
Bhatia, Harsaran S.; Bhatia, Satyapal S.; Riseman, Jacob Valsamakis, Emmanuel A., 4,712,125, Cl. 357-59.000.

Valsamis, Lefteris N.: *See—*
Mehta, Pradip S.; Valsamis, Lefteris N.; and Donoian, Ga 4,711,581, Cl. 366-99.000.

Valsecchi, Carlo; Piatti, Franco; and Bazzi, Giuseppe B. Safety d device particularly for ski boots. 4,683,620, 8-4-87, Cl. 24-71.0

Valspar Corporation, The: *See—*
Peterson, Marvin A., and Mooney, Raymond M., 4,670,34 428-377.000.

Valster, Adriaan: *See*—
Meuleman, Lambertus J.; and Valster, Adriaan, 4,677,634, Cl. 372-46.000.
Valtchev, Konstantin L. Chorion biopsy instrument. 4,681,123, 7-21-87, Cl. 128-753.000.
Valtiero, Tizzi. Method and apparatus for automatic shaping/decoration of longitudinal members in modular units of preset size from which ultimately to fashion articles of jewelry in precious metal and articles of costume jewelry. 4,674,311, 6-23-87, Cl. 72-68.000.
Valtion Teknillinen Tutkimuskeskus: *See*—
Manninen, Markku; and Halme, Aarne, 4,685,054, Cl. 364-191.000.
Pellinen, Markku; Malkki, Yrjo ; and Niskanen, Aimo, 4,637,163, Cl. 47-1.100.
Piironen, Timo H., 4,651,262, Cl. 362-350.000.
Valuikas, Antonette G.; and Valuikas, Ralph. Weighted insole. 4,709,921, 12-1-87, Cl. 272-119.000.
Valuikas, Ralph: *See*—
Valuikas, Antonette G.; and Valuikas, Ralph, 4,709,921, Cl. 272-119.000.
Valun, John; and Harte, Kenneth J., to Control Data Corporation. Miniature electron gun with focusing grid structure. 4,661,741, 4-28-87, Cl. 313-447.000.
Valus, Ronald J.; and Davis, James C., to Standard Oil Company, The. Separation of phenylalanine from phenylalanine ethyl ester. 4,661,629, 4-28-87, Cl. 562-443.000.
Valutec AG: *See*—
Meyer, Bruno, 4,684,149, Cl. 280-650.000.
Valve Systems, Inc.: *See*—
Tricini, John D., 4,693,451, Cl. 251-163.000.
Valvoline Oil & Chemicals Ltd.: *See*—
Bryant, Collin J.; and Mitsopoulos, Tom, 4,686,275, Cl. 528-295.500.
Titti, Otello U.; Cesta, Patrick P.; Mitsopoulos, Thomas H.; and Wheeler, Alan G., 4,689,352, Cl. 521-88.000.
Valyi, Emery I., to Husky Injection Molding Systems Ltd. Method for pressure molding objects of different resins. 4,701,292, 10-20-87, Cl. 264-255.000.
Valyocsik, Ernest W., to Mobil Oil Corporation. Synthesis of crystalline silicate ZSM-5 using an organic sulfonic acid. 4,639,360, 1-27-87, Cl. 423-329.000.
Valyocsik, Ernest W., to Mobil Oil Corporation. Hydrocarbon compound dewaxing. 4,657,662, 4-14-87, Cl. 208-111.000.
Valyocsik, Ernest W., to Mobil Oil Corporation. Hydrocarbon compound conversion. 4,670,615, 6-2-87, Cl. 585-467.000.
Valyocsik, Ernest W., to Mobil Oil Corporation. Crystalline silicate ZSM-58 and process for its preparation using a methyltropinium cation. 4,698,217, 10-6-87, Cl. 423-328.00C.
Valyocsik, Ernest W.: *See*—
Calvert, Robert B.; Chang, Clarence D.; Rubin, Mae K.; and Valyocsik, Ernest W., 4,642,226, Cl. 423-328.000.
Chu, Cynthia T. W.; and Valyocsik, Ernest W., 4,665,250, Cl. 585-415.000.
Derouane, Eric G.; Valyocsik, Ernest W.; and von Ballmoos, Roland, 4,654,138, Cl. 208-114.000.
Rodewald, Paul G.; and Valyocsik, Ernest W., 4,665,264, Cl. 585-533.000.
Rodewald, Paul G.; and Valyocsik, Ernest W., 4,709,114, Cl. 585-640.000.
Vamatex S.p.A.: *See*—
Pezzoli, Luigi, 4,648,429, Cl. 139-448.000.
Pezzoli, Luigi, 4,696,200, Cl. 74-434.000.
Pezzoli, Nello, 4,638,839, Cl. 139-449.000.
Vamvakaris, Christos: *See*—
Denzinger, Walter; Hartmann, Heinrich; Hettche, Albert; Kaluza, Ulrich; Perner, Johannes; and Vamvakaris, Christos, 4,647,396, Cl. 252-174.240.
Etzbach, Karl-Heinz; and Vamvakaris, Christos, 4,667,020, Cl. 534-577.000.
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Miyawaki, Motohisa, 4,680,711, Cl. 364-424.100.
Ohgami, Masaaki, 4,680,990, Cl. 74-868.000.
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Van R Dental Products, Inc.: *See*—
Porteous, Don D.; and Valle, Ornan, 4,648,906, Cl. 106-35.000.
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Van Hooff, Henricus J. J. M., 4,693,080, Cl. 60-414.000.
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Maillard, Jacques G.; Van, Tri V.; Legeai, Jacky M.; and Benharkate, Marguerite M., 4,699,918, Cl. 514-426.000.
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Vanacore, Vincent D., to American Telephone and Telegraph Company, AT&T Information Systems Inc. PBX security system for monitoring security guard tours. 4,672,654, 6-9-87, Cl. 379-49.000.
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Van Aken, Jan, to Hecopharma B.V. Device for taking a picture of a jaw part. 4,707,847, 11-17-87, Cl. 378-170.000.
Van Aken, Jerry: *See*—
Thaden, Robert C.; Van Aken, Jerry; Bond, Jeffrey C.; and Albachten, Rudy, 4,654,804, Cl. 364-520.000.
VanAken, Jerry R.: *See*—
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Van Alstine, James M.; Harris, J. Milton; Shafer, Steve; Snyder, Robert S.; and Herren, Blair, to Universities Space Research Association. Polymer-coated surfaces to control surface zeta potential. 4,690,749, 9-1-87, Cl. 204-299.00R.
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Ruijten, Henri M.; De Bree, Hans; and Van Amsterdam, Peter H., 4,697,428, Cl. 62-124.000.
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Van Antwerp, William P.; and Lincoln, Phillip A., to GSP Metals & Chemicals Corporation. Precious metal recovery using UV ozone. 4,642,134, 2-10-87, Cl. 75-101.00R.
Van Arendonk, Anton P. M.: *See*—
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van Ark, William B.: *See*—
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Van Arsdell, Janelle: *See*—
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Mark, David F.; Wang, Alice M.; Ladner, Martha B.; Creasey, Abla A.; Van Arsdell, Janelle N.; and Lin, Leo S., 4,677,064, Cl. 435-68.000.
Van Arsdell, Robert D.: *See*—
Benoit, Albert J.; Boden, Dudley M.; Decker, David G.; Kishner, Stanley J.; and Van Arsdell, Robert D., 4,706,206, Cl. 364-526.000.
Van Asbroeck, Roger; and Blanc, Serge, to Solvay & Cie (Societe Anonyme). Stabilized compositions based on alpha-olefin polymers. 4,670,493, 6-2-87, Cl. 524-120.000.
Vanaschen, Luc: *See*—
Halberschmidt, Friedrich; Reinmold, Heinz-Josef; Schwarzenberg, Norbert; Radermacher, Herbert; Blank, Kurt; Audi, Josef; and Vanaschen, Luc, 4,682,997, Cl. 65-106.000.
Kunert, Heinz; Vanaschen, Luc; and Cornils, Gerd, 4,681,794, Cl. 428-188.000.
Van Aspert, Joan J. A. M., to Askove Kunststof Industrie B.V. Apparatus suitable for use in methods of examination, intended in particular for persons. 4,688,278, 8-25-87, Cl. 5-81.00B.
van Aspert, Joan J. A. M., to Askove Kunststof Industrie B.V. Detachable hose coupling. 4,705,303, 11-10-87, Cl. 285-309.000.
Vanassche, Roger; and Verbauwhede, Germain. Reinforcing structure for elastomeric article and article thereby obtained. 4,650,068, 3-17-87, Cl. 198-847.000.
Vanasse, Robert W., to Interstate Brands Corporation. Package for loaf of bread. 4,709,851, 12-1-87, Cl. 229-87.00B.
van Asselt, Peter A.; and Hordijk, Jan, to Staalkat B.V. Machine for candling articles such as hatching-eggs. 4,671,652, 6-9-87, Cl. 356-66.000.
Van Auken, John A. Electrically conductive tennis ball. 4,664,378, 5-12-87, Cl. 273-61.00R.
Van Beek, Allen L.: *See*—
Iversen, Alfred A.; Eastman, William J.; and Van Beek, Allen L., 4,685,447, Cl. 128-1.00R.
van Beek, Pieter E., to B.M.I. B.V. Apparatus for preparing a mixture. 4,669,886, 6-2-87, Cl. 366-18.000.
van Beest, Cornelis A.: *See*—
Barendsz, Anton W.; van Beest, Cornelis A.; and Leur, Robert, 4,644,333, Cl. 340-634.000.
Van Belzen, David: *See*—
Lotterbach, Gerhard; Schenk, Manfred; Zucker, Udo; Van Belzen, David; and van Woudenberg, Jan F., 4,700,305, Cl. 364-431.030.
Van Bemmel, William R.: *See*—
Chen, Franklin M. C.; and Van Bemmel, William R., 4,643,730, Cl. 604-390.000.

van Bennekom, Peter K.; and Seal, Michael, to D. Drukker & Zn. N.V. Method for attaching a diamond component to metal. 4,705,933, 11-10-87, Cl. 219-121.0LC.
VanBenthuysen, John D.; Zdanys, John, Jr.; and Nold, Matthew D., to CTS Corporation. Alternate action push-push switch. 4,670,629, 6-2-87, Cl. 200-5.00C.
van Bers, Waltherus A. M.: *See*—
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Van Bibber, Patrick: *See*—
Friddle, William B., II; and Van Bibber, Patrick, 4,659,042, Cl. 244-142.000.
van Blerk, Victor B.: *See*—
Mroz, Edward; and van Blerk, Victor B., 4,648,002, Cl. 360-137.000.
van Bogaert, Philippe; and Maes, Dirk, to N.V. Weefautomaten Picanol. Control valve for auxiliary nozzle of air jet looms. 4,703,779, 11-3-87, Cl. 139-435.000.
Van Bogaert, Philippe; and Deconinck, Filip, to Picanol N.V. Speed control for weft feed spool in weaving looms. 4,715,411, 12-29-87, Cl. 139-452.000.
Van Bommel, Cornelus H. M.: *See*—
Severijns, Adrianus P., Severin, Petrus J. W.; and Van Bommel, Cornelus H. M., 4,698,084, Cl. 65-3.110.
van Bonn, Rolf: *See*—
Eschwey, Manfred; and van Bonn, Rolf, 4,701,290, Cl. 264-40.100.
Vanbrabant, Jean-Pierre C. R., to U.S. Philips Corporation. Arrangement for transmitting digitel data. 4,679,192, 7-7-87, Cl. 370-85.000.
Vanbragt, Willy. Fluid lamp fabrication method. 4,650,509, 3-17-87, Cl. 65-4.100.
Van Brakel, Russel A., to Haverberg Auto Laundry Equipment Company. Tire scrubbing machine for automatic car washers. 4,694,523, 9-22-87, Cl. 15-53.00B.
van Breda, Jacques; and Pronk, Cornelis, to Hoogovens Groep B.V. Method of tinning metal strip. 4,711,704, 12-8-87, Cl. 204-28.000.
van Bree, Rene M.: *See*—
Franken, Adrianus J. J.; van Bers, Waltherus A. M.; van Bree, Rene M.; and van Kasteren, Adrianus C., 4,647,166, Cl. 353-79.000.
van Breems, Martinus. Boat sail control system. 4,688,506, 8-25-87, Cl. 114-104.000.
Van Brocklin, Lester P.: *See*—
Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., 4,647,466, Cl. 426-387.000.
Japikse, Cornelis H.; Van Brocklin, Lester P.; Hembree, Johnny A.; Kitts, Ralph R.; and Meece, Donald R., 4,693,905, Cl. 426-599.000.
Van Brocklin, Owen F., to Risdon Corporation. Fluid dispenser. 4,674,658, 6-23-87, Cl. 222-137.000.
van Bruck, Heinrich E., to U.S. Philips Corporation. Control arrangement for a combustion engine. 4,677,559, 6-30-87, Cl. 364-431.050.
Van Brunt, Michael K.; and Hager, Jeffrey J. Cable shield termination means. 4,705,915, 11-10-87, Cl. 174-35.00R.
Van Buren, Rick L.: *See*—
Kuo, Richard J.; Mackay, John W.; and Van Buren, Rick L., 4,693,930, Cl. 428-323.000.
Van Buskirk, Ellor J.: *See*—
Schmitt, Robert J.; Perez, Leon A.; Montague, Robert A.; Tetenbaum, Marvin T.; and Van Buskirk, Ellor J., 4,692,382, Cl. 428-414.000.
Van Buskirk, W. Jeffrey. Press for compacting small scale objects. 4,696,227, 9-29-87, Cl. 100-902.000.
Van Buuren, Cornelis. Package for cosmetic products. 4,687,099, 8-18-87, Cl. 206-362.000.
Vancalbergh, James M. Work holder for vertical saws. 4,653,371, 3-31-87, Cl. 83-464.000.
Van Camp, Loretta: *See*—
Cleare, Michael J.; Hoeschele, James D.; Rosenberg, Barnett; and Van Camp, Loretta, 4,657,927, Cl. 514-492.000.
Van Camp, Raymond E.: *See*—
Nidiffer, Charles A.; and Van Camp, Raymond E., 4,685,624, Cl. 241-36.000.
Nidiffer, Charles A.; and Van Camp, Raymond E., 4,714,206, Cl. 241-100.000.
Van Camp, Richard H., to Hobart Corporation. Gas convection oven and heat exchanger therefor. 4,648,377, 3-10-87, Cl. 126-21.00A.
Van Cang, Luc P., to Thomson CSF. Variable-passband variable-phase digital filter. 4,709,343, 11-24-87, Cl. 364-724.000.
Van Cang, Luc P., to Thomson Video Equipment. Device for obtaining continuous plots on the screen of a display console controlled by a graphic processor. 4,710,764, 12-1-87, Cl. 340-728.000.
Van Cauter, Albert; Terneu, Robert; and Van Laethem, Robert, to Glaverbel. Coating hot glass with metals or metal compounds, especially oxides. 4,655,810, 4-7-87, Cl. 65-60.400.
Van Cauter, Albert: *See*—
Van Laethem, Robert; Van Cauter, Albert; and Terneu, Robert, 4,664,059, Cl. 118-323.000.
Vance, David E. Hand held impact printer. 4,649,820, 3-17-87, Cl. 101-327.000.
Vance, David F.; and Jakubowicz, Michael. Master pattern assembly for lens circumference grinding. 4,693,034, 9-15-87, Cl. 51-101.0LG.
Vance, Duane R. Boat mooring device. 4,686,926, 8-18-87, Cl. 114-230.000.
Vance, Dwight A. Apparatus to indicate when a patient has evacuated a bed. 4,700,180, 10-13-87, Cl. 340-573.000.
Vance, Eric; and Barton, Bruce A., to Du Pont de Nemours, E. I. Company. Aromatic polyamide fibers and process for stabilizing fibers with surfactants. 4,668,234, 5-26-87, Cl. 8-115.600.
Vance, Gary C.: *See*—
Bender, Herman G.; Shipley, Fred J.; and Vance, Gary 4,703,372, Cl. 360-96.100.
Vance, James B., to Potash Corporation of Saskatchewan Mi Limited. Integrated acoustic network. 4,649,524, 3-10-87, 367-13.000.
Vance, Jeffrey D., to PPG Industries, Inc. Optical filter. 4,643, 2-17-87, Cl. 350-438.000.
Vance, Jeffrey D., to PPG Industries, Inc. Optical filter. 4,650, 3-17-87, Cl. 252-589.000.
Vance, Macy W.: *See*—
Hamill, Paul E., Jr.; and Vance, Macy W., 4,683,937, 164-125.000.
Vance, Ronald D., to Ferno-Washington, Inc. Combination stret and stairchair. 4,688,279, 8-25-87, Cl. 5-82.00R.
Vance, Thomas R.: *See*—
Amendola, Albert, deceased; Kumar, Ananda H.; and Va Thomas R., 4,704,304, Cl. 427-57.000.
Vancelette, Stanley R., to USM Corporation. Placement mechan 4,646,432, 3-3-87, Cl. 29-743.000.
Vancelette, Stanley R.; and Dinozzi, Robert D., to USM Corporat Disc transfer mechanism for electrical component assembly mach 4,671,707, 6-9-87, Cl. 406-74.000.
Vancelette, Stanley R.: *See*—
Kidder, Robert A.; Vancelette, Stanley R.; Whalen, Willis B.; Di Nozzi, Robert D., 4,646,676, Cl. 118-243.000.
Vancha, John: *See*—
Nawrot, Thomas L.; Vancha, John; and Mysicka, James 4,686,352, Cl. 219-250.000.
Vancil, David W. Adjustable headrest for sunbathers. 4,681,3 7-21-87, Cl. 297-405.000.
Van Cise, Kenneth L., Jr., to General Motors Corporation. Transm sion selector assembly and latching mechanism. 4,679,417, 7-14- Cl. 70-247.000.
Van Cleve, Ardry J. Multi-pocket therapeutic anatomical wr 4,676,247, 6-30-87, Cl. 128-402.000.
Van Cleve, Craig B.: *See*—
Bills, Daniel G.; Arnold, Paul C.; Dodgen, Stephen L.; and V Cleve, Craig B., 4,636,680, Cl. 313-7.000.
Van Compernolle, Dirk S., to Leland Stanford Junior University, T Board of Trustees of the. Method and apparatus for providing spre correction in a multi-channel cochlear prosthesis. 4,648,403, 3-10- Cl. 128-419.00R.
Van Conant, Carl F.: *See*—
Pensabene, Saverio F.; West, Jon K.; Leclair, Robert A.; V Conant, Carl F.; Catotti, Arthur J.; and Fralick, Wilham 4,686,013, Cl. 204-2.100.
Van Coney, Robert H.: *See*—
Benecke, Arnold G.; Benson, Douglas H.; Goodman, William Jr.; and Van Coney, Robert H., 4,671,432, Cl. 222-386.000.
Muckenfuhs, Delmar R.; and Van Coney, Robert H., 4,696,416, 222-109.000.
van Cooten, Robertus; Simons, Dick; Witteveen, Bontko; Draai, W lem T.; van Stiphout, Johannes G. V.; and Huijben, Martinus J. Oce-Nederland B.V. Printing device. 4,704,621, 11-3-87, 346-153.100.
van Cooten, Robertus: *See*—
Rongen, Josephus W.; and van Cooten, Robertus, 4,641,950, 355-3.00R.
Vancura, Vladimir. Drill adapter. 4,682,662, 7-28-87, Cl. 175-320.00
Vancurova, Iva: *See*—
Krepelka, Jiri; Vancurova, Iva; Rezabek, Karel; Melka, Mil Pujman, Vojtech; Pokorna, Stanislava; Reichlova, Ruzena; a Cernochova, Slavjanka, 4,661,297, Cl. 260-501.180.
Van Daalen, Peter A.: *See*—
Laugs, Johannis A. B.; Van Den Berg, Gerrit; Van Daalen, Pet A.; and Reinders, Edward D., 4,690,718, Cl. 156-48.000.
VanDahm, Richard A.: *See*—
Baumgartner, Alan S.; Moore, Patrick D.; and VanDahm, Richa A., 4,640,690, Cl. 8-506.000.
VanDam, Daniel J.: *See*—
Lambert, Harry S.; and VanDam, Daniel J., 4,676,569, 439-133.000.
Van Dam, Mathieu J. D.; De Lange, Harrie R.; and Grande, Robert, Duphar International Research B.V. Method of isolating sterols commercial quantities from sterol-containing material. 4,664,80 5-12-87, Cl. 210-635.000.
Vandame, Bertrand, to Precision Mecanique Labinal. Connector app ratus. 4,655,527, 4-7-87, Cl. 339-91.00R.
Vandame, Bertrand, to Precision Mecanique Labinal. Electrical co nectors. 4,664,460, 5-12-87, Cl. 339-59.00R.
Vandame, Bertrand, to Precision Mecanique Labinal. Female electric contact element. 4,696,530, 9-29-87, Cl. 439-266.000.
Vandame, Bertrand, to Precision Mecanique Labinal. Moisture-proo electrical connector. 4,698,027, 10-6-87, Cl. 439-271.000.
Vandeberg, John T., to DeSoto, Inc. Light weight concrete and cemet titious masonry products. 4,654,083, 3-31-87, Cl. 106-86.000.
Vandebult, Jan: *See*—
Hoover, Merwin F.; Salamone, Ann B.; and Vandebult, Ja 4,666,735, Cl. 427-43.100.
Vandecandelaere, Rene A.: *See*—
Van Den Bossche, Bart; and Vandecandelaere, Rene A., 4,656,93 Cl. 100-3.000.

Van Den Bossche, Bart; and Vandecandelaere, Rene A., 4,656,931, Cl. 100-4.000.

Van de Carr, F. Rene; and Lehrer, Marc. Combined coordination trainer and baby bottle holder. 4,655,715, 4-7-87, Cl. 434-258.000.

van de Gaer, Daniel: *See*—
Ouhadi, Trazollah; Broze, Guy; Dehan, Louis; and van de Gaer, Daniel, 4,661,280, Cl. 252-99.000.

Vandegriff, Hugh R.: *See*—
Elco, Richard A.; and Vandegriff, Hugh R., 4,690,472, Cl. 439-67.000.

van de Grift, Robert E. J.; and van der Veen, Martien, to U.S. Philips Corporation. Analog-to-digital converter circuit. 4,686,508, 8-11-87, Cl. 340-347.0AD.

van de Haar, Rijk; and Thomassen, Johan H. C., to Douwe Egberts Koninklijke Tabaksfabriek Koffiebranderijen-Theehandel N.V. Packing method and a blank for use therein. 4,653,252, 3-31-87, Cl. 53-449.000.

van de Kerkhof, Franciscus A. M.: *See*—
Barbu, Stefan; Valkestijn, Leonardus; and van de Kerkhof, Franciscus A. M., 4,695,839, Cl. 340-825.060.

van de Kerkhof, Hubertus F. W.: *See*—
Beyersbergen van Henegouwen, Cornelis M.; van de Kerkhof, Hubertus F. W.; Koken, Karel G. M.; and Olierook, John C. J., 4,634,020, Cl. 229-335.000.
Koken, Karel G. M.; and van de Kerkhof, Hubertus F. W., 4,672,598, Cl. 369-75.200.

Vandekerkhof, Peter H.: *See*—
Koch, Joseph J.; Koch, Richard N.; and Vandekerkhof, Peter H., 4,657,335, Cl. 339-256.00R.

van de Klundert, Louis J. M.; ten Kate, Herman H. J.; Sikkenga, Jan; Groenenboom, Maarten; and Lisser, Jacques, to Holec Systemen en Componenten B.V. Superconducting rectifier for the conversion of a relatively low alternating current into a relatively high direct current. 4,709,314, 11-24-87, Cl. 363-14.000.

Van de Leest, Renaat E.: *See*—
Fritz, Johannes H.; and Van de Leest, Renaat E., 4,693,769, Cl. 156-73.100.

Van De Meerakker, Jacobus J. M.: *See*—
Osseyran, Anwar; Van De Meerakker, Jacobus J. M.; Van Der Meulen, Harmen; and Osinga, Halbe, 4,713,641, Cl. 335-213.000.

van de Moesdijk, Cornelis G. M.; Delahaye, Hubertus J. A. V.; and Teunissen, Antonius J. J. M., to Stamicarbon B.V. Process for the preparation of a 2-alkylpyrimidine. 4,667,034, 5-19-87, Cl. 544-242.000.

Vandemore, William J., to Lucas Sales Company, Inc. Plural-section pitch pan. 4,635,409, 1-13-87, Cl. 52-60.000.

Vandenabeele, Frans: *See*—
Vandeweghe, Michel; and Vandenabeele, Frans, 4,653,544, Cl. 139-116.000.

Vandenabeele, Hubert; and Vervecken, Jacques L., to Agfa-Gevaert N.V. Process of making a photographic elements comprising protective layers containing antistats. 4,670,376, 6-2-87, Cl. 430-527.000.

Van den Akker, Johannes A.: *See*—
Cheshire, James O.; Marinack, Robert J.; Van den Akker, Johannes A.; and Lindgren, Douglas L., 4,686,006, Cl. 162-336.000.

van den Berg, Adrianus H. M.; and Thompson-Russell, Kathryn C., to U.S. Philips Corporation. Method of drape drawing a shadow mask for a color display tube. 4,685,321, 8-11-87, Cl. 72-347.000.

Vandenberg, Andrew W.: *See*—
Vandenberg, August; Vandenberg, Ben W.; Vandenberg, Andrew W.; and Haws, Ben E., 4,715,321, Cl. 119-14.030.

Vandenberg, August; Vandenberg, Ben W.; Vandenberg, Andrew W.; and Haws, Ben E. Milking parlor stall construction with overhead gates. 4,715,321, 12-29-87, Cl. 119-14.030.

Vandenberg, Ben W.: *See*—
Vandenberg, August; Vandenberg, Ben W.; Vandenberg, Andrew W.; and Haws, Ben E., 4,715,321, Cl. 119-14.030.

Vandenberg, Edward. Machine for adhesively mounting a printing plate on a plate roll. 4,705,590, 11-10-87, Cl. 156-447.000.

Van Den Berg, Frans J.; and Viergever, Robert A., to B.V. Koninklijke Maatschappij "De Schelde". Arrangement for storing pipes. 4,708,563, 11-24-87, Cl. 414-22.000.

Van Den Berg, Gerrit: *See*—
Laugs, Johannis A. B.; Van Den Berg, Gerrit; Van Daalen, Peter A.; and Reinders, Edward D., 4,690,718, Cl. 156-48.000.

Van den Berg, Johannes A.: *See*—
Edens, Luppo; Ledeboer, Adrianus; Verrips, Cornelis; and Van den Berg, Johannes A., 4,657,857, Cl. 435-68.000.

Van den Berg, Teunis T.; and Eastlack, Thomas D. Molecular differentiation filter. 4,686,041, 8-11-87, Cl. 210-335.000.

van den Berg, Wilhemus H.; Homs, Marinus H.; and van Oorschot, Bob P. J., to Shell Oil Company. Transducing device for contactless ultrasonic inspection of pipelines or tubings. 4,691,572, 9-8-87, Cl. 73-643.000.

Van den Bergh, Armand M.: *See*—
Van de Sande, Christian C.; Van den Bergh, Armand M.; and Verhecken, Andre , 4,663,273, Cl. 430-563.000.

Vandenbergh, Peter A.; and Vidaver, Anne K., to Microlife Technics, Inc. Method and compositions for use in the treatment of fireblight. 4,678,750, 7-7-87, Cl. 435-200.000.

Vandenberk, Jan; Kennis, Ludo E. J.; and Mertens, Josephus C., to Janssen Pharmaceutica N.V. Derivatives of hydroxy- or amino-substituted (piperidinylalkyl)quinazolines. 4,665,075, 5-12-87, Cl. 514-259.000.

Van den Berk, Peter J. T.; Knol, Berend; and Dubois, Franciscus J. M., to U.S. Philips Corporation. Device for and method of working up pickling and etching liquids. 4,663,145, 5-5-87, Cl. 423-659.000.

Van den Bogaert, Jan A.: *See*—
Leenders, Luc H.; Daems, Eddie R.; and Van den Bogaert, Jan A., 4,710,444, Cl. 430-237.000.

van den Boom, Johannes: *See*—
Hollerweger, Heinz; Aden, Bodo; Kuipers, Geert; and van den Boom, Johannes, 4,671,227, Cl. 123-192.00R.

Van Den Bossche, Bart; and Vandecandelaere, Rene A., to New Holland Inc. Method of wrapping round bales. 4,656,930, 4-14-87, Cl. 100-3.000.

Van Den Bossche, Bart; and Vandecandelaere, Rene A., to New Holland Inc. Apparatus for automatically wrapping round bales. 4,656,931, 4-14-87, Cl. 100-4.000.

Van Den Brekel, Jacques; Crothers, Carlyle W.; and Squires, Dale B., to Northern Telecom Limited. Shaped solder pad for surface mounting electronic devices and a surface mounting position incorporating such shaped pads. 4,645,114, 2-24-87, Cl. 228-56.300.

van den Brink, Franciscus: *See*—
Alfenaar, Marinus; van den Brink, Franciscus; and van Hardeveld, Rudolf, 4,693,793, Cl. 204-78.000.

van den Brink, Hendrikus G. Device for conveying chickens to a slaughtering plant. 4,658,476, 4-21-87, Cl. 17-11.000.

van den Brink, Hendrikus G. Device for packing poultry in boxes or containers. 4,669,423, 6-2-87, Cl. 119-82.000.

van den Broek, Adriaan, to VandenBroek International B.V. Rotary drying drum. 4,633,595, 1-6-87, Cl. 34-108.000.

VandenBroek International B.V.: *See*—
van den Broek, Adriaan, 4,633,595, Cl. 34-108.000.

van den Broek, Martinus H. L. M.; and Westra, Jan D., to U.S. Philips Corporation. Cathode-ray tube and electron gun structure therefor. 4,705,985, 11-10-87, Cl. 313-449.000.

van den Broek, William A., to KDI Sylvan Pools, Inc. Automatic rim flow water level control system for gutters. 4,706,309, 11-17-87, Cl. 4-508.000.

Van den Brug, Lippe, to U.S. Philips Corporation. Weighing element for a weighing apparatus. 4,712,628, 12-15-87, Cl. 177-211.000.

Vandenbulcke, Brigitte M. J.: *See*—
May, Bronislav H.; Nijs, Hubert H.; and Vandenbulcke, Brigitte M. J., 4,666,623, Cl. 252-102.000.

van den Burg, Wouter M. Two-piece lock for securing polymeric sheeting over greenhouses. 4,665,670, 5-19-87, Cl. 52-222.000.

VanDenburgh, Ronald J.: *See*—
Hansen, Kurt L.; and VanDenburgh, Ronald J., 4,702,673, Cl. 416-215.000.

Vandendael, Yannick: *See*—
Dehennau, Claude; and Vandendael, Yannick, 4,695,506, Cl. 428-212.000.

Vandendorpe, James E.: *See*—
Brown, Donald W.; Leth, James W.; and Vandendorpe, James E., 4,710,926, Cl. 371-9.000.

Van den Ende, Anthony, to Vandenende B.V. Borsele. Apparatus for soil working. 4,703,809, 11-3-87, Cl. 172-147.000.

Vandenende B.V. Borsele: *See*—
Van den Ende, Anthony, 4,703,809, Cl. 172-147.000.

van den Haak, Rob. Anchor. 4,706,595, 11-17-87, Cl. 114-301.000.

van den Heuvel, Anthony P.: *See*—
Derfiny, Dennis J.; van den Heuvel, Anthony P.; and Edguer, Nihat S., 4,641,222, Cl. 361-403.000.

Van den Heuvel, Raymond C. Vector generator using interpolative analog circuits. 4,649,506, 3-10-87, Cl. 364-607.000.

Van Den Heuvel, Raymond C., to Terminal Data Corporation. Electronic camera for digital processing of CCD data. 4,704,632, 11-3-87, Cl. 358-209.000.

van Den Hoek, Willibrordus G. M.: *See*—
De Wilde, Johannes; and van Den Hoek, Willibrordus G. M., 4,666,554, Cl. 156-643.000.

van den Honert, Christopher: *See*—
Stypulkowski, Paul H.; and van den Honert, Christopher, 4,706,682, Cl. 128-642.000.

Van Den Keybus, Franz A. M.: *See*—
Beer, Henri B.; Van Den Keybus, Franz A. M.; and Suykerbuyk, Lucovicus F. M., 4,670,114, Cl. 204-96.000.

Van Den Kieboom, Jan M. Combination flower and display container. 4,662,107, 5-5-87, Cl. 47-84.000.

van den Pol, Aart A., to Multilift B.V. Elongate, transportable unit standing upright during use. 4,634,335, 1-6-87, Cl. 414-494.000.

van den Steen, Leon, to Shell Oil Company. Capacitive submergible electrical connector apparatus. 4,674,010, 6-16-87, Cl. 361-433.000.

van de Plassche, Rudy J., to U.S. Philips Corporation. A/D converter with integrator to enhance resolution. 4,654,635, 3-31-87, Cl. 340-347.0AD.

van de Plassche, Rudy J., to U.S. Philips Corporation. Digital/analog converter with capacitor-free elimination of a.c. components. 4,703,310, 10-27-87, Cl. 340-347.0DA.

van de Pol, Gustaaf M. W., to Akzo nv. Flexible sack for carrying bulk materials. 4,664,957, 5-12-87, Cl. 428-35.000.

van de Polder, Leendert J., to U.S. Philips Corporation. Television system with improved definition in field scanning direction. 4,652,904, 3-24-87, Cl. 358-12.000.

Van De Poll, Raoul P. J.: *See*—
Beenakker, Cornelis I. M.; and Van De Poll, Raoul P. J., 4,666,857, Cl. 436-124.000.

Vander, Timen: *See*—
Thijssen, Nicolaas J. W.; and Vander, Timen, 4,643,803, Cl. 201-1.000.
van der Aa, Leonardus J., to Enkes Marine B.V. Automatic three-speed winch. 4,699,360, 10-13-87, Cl. 254-345.000.
van der Akker, Jouw; and Plagge, Joseph A. M., to U.S. Philips Corporation. Self-oscillating power-supply circuit. 4,652,984, 3-24-87, Cl. 363-18.000.
Vanderbilt, Jeffrey J.: *See*—
Devon, Thomas J.; Phillips, Gerald W.; Puckette, Thomas A.; Stavinoha, Jerome L.; and Vanderbilt, Jeffrey J., 4,694,109, Cl. 568-454.000.
Vanderbilt University: *See*—
Eisenberg, Alan D.; Conturo, Thomas E.; Wehr, Chris J.; and Schwartzberg, Mindy S., 4,669,481, Cl. 128-654.000.
Godbold, Thomas M.; and Baker, William R., 4,681,598, Cl. 44-1.0SR.
Harris, Thomas M.; and Harris, Constance M., 4,670,258, Cl. 424-115.000.
Van Eldik, Linda J.; Watterson, D. Martin; Erickson, Bruce W.; and Fok, Kam-Fook, 4,716,150, Cl. 514-14.000.
Vanderborgh, Nicholas E.; Springer, Thomas E.; and Huff, James R., to United States of America, Energy. Fuel processor for fuel cell power system. 4,650,727, 3-17-87, Cl. 429-19.000.
Van Der Borst, Albertus J. C.: *See*—
De Wit, Hendrik J.; Brouha, Marcel; Enz, Ulrich E.; Jager, Kornelis; Van Der Borst, Aleertus J. C.; and Turk, Gijsbertus W., 4,685,012, Cl. 360-125.000.
Vanderburg, Curtis E. Emergency lighting system. 4,686,505, 8-11-87, Cl. 340-331.000.
Van der Burgt, Maarten J.: *See*—
Goudriaan, Johan C.; and Van der Burgt, Maarten J., 4,683,121, Cl. 422-197.000.
van der Eerden, Henricus F. J. M., to Stork PMT B.V. Device for cutting off the tail of slaughtered poultry. 4,639,973, 2-3-87, Cl. 17-11.000.
van der Eerden, Henricus F. J. M., to Stork PMT B.V. Device for separating the legs from a carcass portion of slaughtered poultry. 4,639,975, 2-3-87, Cl. 17-11.000.
van der Eerden, Henricus F. J. M., to Stork PMT B.V. Guide track for slaughtered poultry. 4,646,384, 3-3-87, Cl. 17-11.000.
van der Eerden, Henricus F. J. M., to Stork PMT B.V. Device for cutting off the wings of slaughtered poultry. 4,651,383, 3-24-87, Cl. 17-11.000.
van der Eerden, Henricus F. J. M., to Stork PMT B.V. Device for severing a body part of slaughtered poultry. 4,653,147, 3-31-87, Cl. 17-11.000.
Van Der Giessen, Aart A.; Van Der Hulst, Victor A.; and Janssen, Petrus J., to U.S. Philips Corporation. Method of and device for drawing an optical fiber from a solid preform consisting substantially of SiO_2 and doped SiO_2. 4,673,427, 6-16-87, Cl. 65-2.000.
Van der Goot, Henderikus: *See*—
Timmerman, Hendrik; and Van der Goot, Henderikus, 4,694,000, Cl. 514-187.000.
Van Der Gucht, William: *See*—
Lambrecht, Emiel Y.; and Van Der Gucht, William, 4,702,731, Cl. 493-196.000.
Vanderheiden, Dennis B., to Pfizer, Inc. Spherically shaped precipitated calcium carbonate, its preparation and use. 4,714,603, 12-22-87, Cl. 423-432.000.
van der Heijden, Antonius W. F.; and Fleuren, Petrus A. M., to U.S. Philips Corporation. Method of assembling an integrated electron gun system. 4,685,891, 8-11-87, Cl. 445-36.000.
van der Heijden, Arnoldus: *See*—
Doornbos, Tamme; van der Heijden, Arnoldus; van der Kamp, Johannes W.; and de Rooij, Johannes F., 4,701,335, Cl. 426-533.000.
van der Heijden, Lambertus P. P. M., to Dow Chemical Company, The. Method for preparing a film having preferential one-sided cling. 4,664,866, 5-12-87, Cl. 264-519.000.
Vander Heyden, William H., to Badger Meter, Inc. Digital flow meter circuit and method for measuring flow. 4,633,719, 1-6-87, Cl. 73-861.280.
Vander Heyden, William H., to Badger Meter, Inc. Sonic measurement of gas flow. 4,663,977, 5-12-87, Cl. 73-861.270.
Vanderhider, James A.: *See*—
Peffley, Richard D.; Spelis, John H.; and Vanderhider, James A., 4,689,356, Cl. 521-159.000.
Turner, Robert B.; Peffley, Richard D.; and Vanderhider, James A., 4,642,320, Cl. 521-176.000.
Vanderhoeven, Antonius J., to Boeing Company, The. Shock inducing pod for causing flow separation. 4,643,376, 2-17-87, Cl. 244-198.000.
Vanderhoeven, Antonius J., to Boeing Company, The. Vortex generator. 4,655,419, 4-7-87, Cl. 244-199.000.
Vanderhoof, John R. Method for a game. 4,637,609, 1-20-87, Cl. 273-272.000.
van der Hoorn, Gustaaf H. A.; van der Staak, Caspert G. I.; Lamberts, Joseph J. M.; and Schmitz, Johannes H. A., to U. S. Philips Corporation. Transmission projection screen and method of manufacturing same. 4,660,930, 4-28-87, Cl. 350-126.000.
van der Hoorn, Rudolf J. G. A.: *See*—
Horowitz, Paul; and van der Hoorn, Rudolf J. G. A., 4,649,531, Cl. 369-270.000.
Van der Hulst, Herman L.; and Meerman, Arend H., to Indapp Engineering B.V. Container grab. 4,685,713, 8-11-87, Cl. 294-90.000.
van der Hulst, Robert: *See*—
Spaanderman, Cornelis; van der Hulst, Robert; and van Rij, Abraham W., 4,671,429, Cl. 222-110.000.
Van Der Hulst, Victor A.: *See*—
Van Der Giessen, Aart A.; Van Der Hulst, Victor A.; and Janssen, Petrus J., 4,673,427, Cl. 65-2.000.
Vanderjagt, John A. Pumping system with control valve. 4,685,592, 8-11-87, Cl. 222-148.000.
van der Kamp, Johannes W.: *See*—
Doornbos, Tamme; van der Heijden, Arnoldus; van der Kamp, Johannes W.; and de Rooij, Johannes F., 4,701,335, Cl. 426-533.000.
Vander Kooi, David L.: *See*—
Conner, John P.; Mitchell, Terry; Miller, Craig; Vander Kooi, David L.; and Herringa, Donald, 4,660,905, Cl. 312-195.000.
van der Laan, Johan S.: *See*—
McAlevey, Richard J.; Muir, Malcolm D.; and van der Laan, Johan S., 4,691,345, Cl. 379-158.000.
Vanderlaan, Robert D.; and Heeres, Stanley D., to Pneumo Corporation. Direct drive valve and force motor assembly including interchangeable stator assembly and alignment system or method. 4,641,812, 2-10-87, Cl. 251-65.000.
Vanderlaan, Robert D.; and Meulendyk, John W., to Pneumo Corporation. Direct drive valve-ball drive mechanism. 4,672,992, 6-16-87, Cl. 137-331.000.
Vanderlaan, Robert D.: *See*—
Martin, Eugene J.; Tootle, James N.; Fallows, Walter; Lambers, Howard; and Vanderlaan, Robert D., 4,645,178, Cl. 251-229.000.
van der Lely, Ary; and Bom, Cornelis J. G., to C. van der Lely N.V. Spreader. 4,643,360, 2-17-87, Cl. 239-682.000.
van der Lely, Ary; and Bom, Cornelis J. G., to C. van der Lely N.V. Mowing machine. 4,679,384, 7-14-87, Cl. 56-13.600.
van der Lely, Cornelis. Soil cultivating machines. 4,641,713, 2-10-87, Cl. 172-49.000.
van der Lely, Cornelis. Tractor for agricultural purposes. 4,648,472, 3-10-87, Cl. 180-24.000.
van der Lely, Cornelis, to Texas Industries, Inc. Baler. 4,651,512, 3-24-87, Cl. 56-341.000.
van der Lely, Cornelis. Mowing machine. 4,671,050, 6-9-87, Cl. 56-16.400.
van der Lely, Cornelis. Computer with universal input member for use on stationary and mobile platforms. 4,684,089, 8-4-87, Cl. 248-124.000.
van der Lely, Edwin; and Bom, Cornelis J. G., to C. van der Lely N.V. Agricultural machine. 4,641,491, 2-10-87, Cl. 56-228.000.
van der Lely, Ir E.; and Bom, Cornelis J. G., to C. Van der Lely N.V. Mowing machine. 4,693,062, 9-15-87, Cl. 56-13.600.
Van der Lely, Piet, to U.S. Philips Corporation. Cassette holder comprising a plurality of compartments, each intended for receiving a magnetic-tape cassette. 4,645,075, 2-24-87, Cl. 206-387.000.
van der Ligt, Jacobus W. C.: *See*—
Jochem, Cornelis M. G.; and van der Ligt, Jacobus W. C., 4,644,898, Cl. 118-405.000.
Jochem, Cornelis M. G.; and van der Ligt, Jacobus W. C., 4,704,307, Cl. 427-117.000.
van der Linde, Leendert M.; van Lier, Franciscus P.; and van der Weerdt, Antonius J. A., to Naarden International N.V. Flavouring and perfume compositions, flavoured foodstuffs and luxury consumables and perfumed products which contain one or more spathulenols as the base material, a spathulenol derivative and a process for the preparation of spathulenols. 4,704,232, 11-3-87, Cl. 512-19.000.
van der Linde, Leendert M.: *See*—
Van Lier, Franciscus P.; van der Linde, Leendert M.; and van der Weerdt, Antonius J. A., 4,687,599, Cl. 512-27.000.
Van der Linde, Robert; and Rietberg, Johan, to DSM Resins B.V. Process for preparing and processing a resin composition. 4,686,270, 8-11-87, Cl. 527-601.000.
van der Linde, Robert, to DSM Resins B.V. Resin composition and process for the preparation of this resin composition. 4,694,035, 9-15-87, Cl. 523-437.000.
van der Linden, Bernardus G., to B.V. Optische Industrie "De Oude Delft". Electronic circuit for determining the position of a light spot on a position-sensitive detector. 4,687,920, 8-18-87, Cl. 250-205.000.
Van der Linden, Klaus: *See*—
Benndorf, Gerald; and Van der Linden, Klaus, 4,689,515, Cl. 310-316.000.
Vanderlinden, Roy E.; and Francis, John H., to Frederick Manufacturing Company, Inc. Conical drive. 4,644,810, 2-24-87, Cl. 74-191.000.
Van DerLinden, Roy E.: *See*—
Francis, John H.; and Van DerLinden, Roy E., 4,682,517, Cl. 74-796.000.
Vanderlip, John A.: *See*—
Nelb, Robert G., II; Onder, Kemal; Rausch, Karl W.; and Vanderlip, John A., 4,672,094, Cl. 525-440.000.
VanderLugt, Thomas, to James River Corporation of Virginia. Carton for dispensing sheet material in roll form. 4,648,536, 3-10-87, Cl. 225-43.000.
Van der Maaden, Johan: *See*—
Van der Velde, Hendrik S.; Schildbach, Klaus B.; and Van der Maaden, Johan, 4,666,244, Cl. 350-96.230.
van der Maas, Hendrikus: *See*—
Suerken, Hans P.; Amort, Jurgen; Hanisch, Horst; and van der Maas, Hendrikus, 4,649,220, Cl. 564-296.000.
Vandermark, Frank: *See*—
Dong, Michael W.; Yarbro, Stanley K.; and Vandermark, Frank, 4,678,639, Cl. 422-81.000.

Van Der Mark, Jacobus, to Hollandse Signaalapparaten B.V. Digital pulse compression filter. 4,673,941, 6-16-87, Cl. 342-201.000.

Vander Meer, James M., to Procter & Gamble Company, The. Detergent compositions containing ethoxylated amine polymers having clay soil removal/anti-redeposition properties. 4,676,921, 6-30-87, Cl. 252-174.230.

van der Meer, Jan; and Hagen, Kurt, to Polaroid Corporation. Apparatus for peeling print sheets from disposable sheet portions of film unit assemblies. 4,670,085, 6-2-87, Cl. 156-584.000.

van der Meer, Jan: *See*—
Steenhof, Frits A.; Welles, Petrus W. G.; Nuijten, Petrus A. C. M.; and van der Meer, Jan. 4,684,986, Cl. 358-148.000.

van der Meer, Jelle; and Slagmuis, Hans, to Gould Electronics B.V. Water separator for a gas analyzer. 4,668,257, 5-26-87, Cl. 55-267.000.

van der Meer, Roelof, to General Electric Company. Polymer mixture comprising a polyphenylene ether and a polyamide. 4,659,760, 4-21-87, Cl. 524-141.000.

van der Meer, Roelof, to General Electric Company. Resin composition and articles formed therefrom. 4,716,199, 12-29-87, Cl. 525-92.000.

van der Meer, Roelof: *See*—
Bussink, Jan; and van der Meer, Roelof. 4,668,723, Cl. 524-105.000.

van der Merwe, Jacobus C.; and van der Merwe, Lucas C. Self-propelled, self-steered vehicle for power driven plant trimming tools. 4,694,577, 9-22-87, Cl. 30-379.500.

van der Merwe, Lucas C.: *See*—
van der Merwe, Jacobus C.; and van der Merwe, Lucas C., 4,694,577, Cl. 30-379.500.

Van Der Meulen, Harmen: *See*—
Osseyran, Anwar; Van De Meerakker, Jacobus J. M.; Van Der Meulen, Harmen; and Osinga, Halbe. 4,713,641, Cl. 335-213.000.

van der Meulen, Leendert; and Van Der Wouden, Adriaan, to van der Meulen, Leendert. Set up piece for mounting on a can, containing a beverage. 4,715,510, 12-29-87, Cl. 220-90.400.

Van Der Molen, Engelbertus J.: *See*—
Hutcheson, David W.; Van Der Molen, Engelbertus J.; and Oly, Pieter J., 4,648,408, Cl. 128-770.000.

van der Ouderaa, Franciscus J. G.: *See*—
Lane, Roger M.; Hull, Derek M. C.; Sixton, Charles A.; and van der Ouderaa, Franciscus J. G., 4,656,031, Cl. 424-49.000.

Van Der Plaats, Petrie J.: *See*—
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Van Der Ploeg, Frederik: *See*—
Offringa, Oege R.; and Van Der Ploeg, Frederik, 4,675,965, Cl. 29-157.00T.

van der Poel, Arie A.: *See*—
Spaanenburg, Lambertus; Duin, Peter B.; Woudsma, Roberto; and van der Poel, Arie A., 4,656,592, Cl. 364-490.000.

Van Der Poel, Carolus J.: *See*—
Grevesteijn, Dirk J.; and Van Der Poel, Carolus J., 4,647,944, Cl. 346-1.100.

Vander Pol, Jerald, to Tri Tool Inc. Bearing arrangement for portable lathe. 4,665,782, 5-19-87, Cl. 82-4.00C.

VanderPol, Jerald: *See*—
Astle, Henry; VanderPol, Jerald; Schuster, Randall; and Linton, Terry B., 4,667,548, Cl. 82-4.00C.

Vanderpool, Clarence D., to GTE Products Corporation. Process for producing high purity silicon nitride. 4,676,965, 6-30-87, Cl. 423-344.000.

Vanderpool, Clarence D.: *See*—
Ladd, Judith A.; and Vanderpool, Clarence D., 4,668,483, Cl. 423-53.000.
Ladd, Judith A.; and Vanderpool, Clarence D., 4,684,401, Cl. 75-0.5BA.
Schelhauer, Richard A.; Vanderpool, Clarence D.; Miller, Michael J.; and Gingerich, Richard G. W., 4,690,710, Cl. 75-0.5AA.

Vanderpool, James L.; and Bain, James M., to Monarch Marking Systems, Inc. Hand-held labeler having improved web position sensing and print head control. 4,680,078, 7-14-87, Cl. 156-352.000.

Vanderpool, Steven H.; and Zimmerman, Robert L., to Texaco Inc. Catalytic method for the manufacture of N-alkylmorpholines. 4,647,664, 3-3-87, Cl. 544-178.000.

Vanderpool, Steven H., to Texaco Inc. Catalytic method for the conjoint manufacture of N-aminoethylpiperazine and tetraethylenepentamine. 4,698,427, 10-6-87, Cl. 544-404.000.

Vanderpool, Steven H.: *See*—
Zimmerman, Robert L.; and Vanderpool, Steven H., 4,698,428, Cl. 544-404.000.

Van Der Poorten, Christian J. E. C.: *See*—
Blanchart, Alain P. O.; and Van Der Poorten, Christian J. E. C., 4,696,872, Cl. 429-42.000.

Vander Poorten, Henri, to Andromaque S.A. Electrochemical procedure for the direct forming of generally thin elements with various contours and surfaces of usual and technical ceramics or refractory material. 4,695,356, 9-22-87, Cl. 204-180.900.

van der Put, Henk: *See*—
Steenbergen, Christiaan; Howard, Peter G.; Bracht, Roger R.; and van der Put, Henk, 4,695,994, Cl. 369-54.000.

van der Put, Henk A., to Laser Magnetic Storage International Company. Power control system for a semiconductor laser. 4,685,097, 8-4-87, Cl. 369-54.000.

Van Der Puy, Michael; Soriano, David S.; and Dimmit, Jeffrey H., to Allied Corporation. Novel extractants for the recovery of palladium. 4,705,896, 11-10-87, Cl. 564-265.000.

Vanderschaeghe, Alain: *See*—
Franzolini, Marc; Maria, Edmond; Vanderschaeghe, Alain; and Bezier, Jean, 4,665,601, Cl. 29-157.3C.

Vanderschaeghe, Christian, to Precision Mecanique Labinal. Rotating machines with magnets on the rotor. 4,658,165, 4-14-87, Cl. 310-156.000.

van der Schoot, Jelle, to Staalkat B.V. Method and an apparatus for handling vulnerable articles, as well as a container adapted to apply this method. 4,708,250, 11-24-87, Cl. 209-592.000.

Vanderslice, David. Synthetic fur garland and method of making same. 4,673,599, 6-16-87, Cl. 428-10.000.

Vanderslice, Rebecca W.; and Shannon, Patrick, to Getty Scientific Development Company. Polysaccharide polymer made by xanthomonas. 4,713,449, 12-15-87, Cl. 536-123.000.

van der Smissen, Carl-Ernst, to Dragerwerk Aktiengesellscaft. Filter comprising a catalyst on a substrate for purification of air. 4,636,485, 1-13-87, Cl. 502-66.000.

van der Smissen, Carl-Ernst, to Dragerwerk A.G. Air cleaning material for use in air filters. 4,677,096, 6-30-87, Cl. 502-417.000.

van der Staak, Caspert G. J.; and van de Ven, Johannes C., to U.S. Philips Corporation. Transmission projection screen and method of manufacturing same. 4,688,093, 8-18-87, Cl. 350-128.000.

van der Staak, Caspert G. J.: *See*—
van der Hoorn, Gustaaf H. A.; van der Staak, Caspert G. J.; Lamberts, Joseph J. M.; and Schmitz, Johannes H. A., 4,660,930, Cl. 350-126.000.

van der Stoel, Roland E., to Stamicarbon B.V. Process for the preparation of pyridone-2 by demethylation. 4,639,525, 1-27-87, Cl. 546-290.000.

Vandersyde, Gary L.; and Rabindran, K. George, to Bell & Howell Company. Gripper arm and method of operation. 4,634,107, 1-6-87, Cl. 270-56.000.

VanderSyde, Gary L.; and Beatty, Paul, to Bell & Howell Company. Method and device for deflecting a sheet prior to feeding. 4,669,716, 6-2-87, Cl. 271-98.000.

Vandersyde, Gary L.: *See*—
Zemke, Edward H., deceased; Vandersyde, Gary L.; Rabindran, K. George; and Guenther, Kenneth L., 4,697,246, Cl. 364-563.000.

van der Toorn, Jacobus: *See*—
Huizer, Willem; van der Toorn, Jacobus; and van der Voort, Gabriel N. M. M., 4,664,223, Cl. 181-113.000.

van der Veen, Guus. Amusement ride vehicle. 4,643,416, 2-17-87, Cl. 272-38.000.

van der Veen, Martien. *See*—
van de Grift, Robert E. J.; and van der Veen, Martien, 4,686,508, Cl. 340-347.0AD.

Van der Veen, Siebren C.: *See*—
Cadee, Theodorus P. M.; Van der Veen, Siebren C.; and Fluks, Marten, 4,685,353, Cl. 74-689.000.

van der Veer, Franciscus A. A.: *See*—
Rademaker, Gerrit; and van der Veer, Franciscus A. A., 4,709,154, Cl. 250-551.000.

Vanderveer, Fred: *See*—
Straka, Robert; Ross, Robert E.; and Vanderveer, Fred, 4,659,303, Cl. 425-376.00R.
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Hoeberechts, Arthur M. E.; Van Hal, Henricus A. M.; Tolner, Harm; and Van Gorkom, Gerardus G. P., 4,709,185, Cl. 313-346.00R.
van Esdonk, Johannes; van Hal, Henricus A. M.; and van Lith, Josef J., 4,671,777, Cl. 445-51.000.
Van Halen, Edward I.: Musical instrument support. 4,656,917, 4-14-87, Cl. 84-327.000.
Van Halteren, Jacob: *See*—
Sheffield, James S.; and Van Halteren, Jacob, 4,653,997, Cl. 425-556.000.
van Hardeveld, Rudolf: *See*—
Alfenaar, Marinus; van den Brink, Franciscus; and van Hardeveld, Rudolf, 4,693,793, Cl. 204-78.000.
Van Harding, Michael: *See*—
Gilhousen, Klein S.; Heller, Jerrold A.; Van Harding, Michael; and Blakeney, Robert D., II, 4,712,238, Cl. 380-20.000.
Van Hart, Elizabeth R.: *See*—
Elesie, Louis D.; Van Hart, Elizabeth R.; Norwood, James J.; Norwood, Pauline M.; Dixon, Joseph W.; and Dixon, Eleanor M., 4,666,161, Cl. 273-246.000.
Vanhauwaert, Luk: Method and apparatus for the manifold stepwise reproducing of one and the same transparent image. 4,676,629, 6-30-87, Cl. 355-53.000.
Van-Hecke, Christian; and Pavie, Denis, to Vibrachoc: Optical indicator system for aircraft pallet connector-mating. 4,667,094, 5-19-87, Cl. 250-223.00R.
Van Hecke, Francis C.: *See*—
Pouilliart, Roger V.; and Van Hecke, Francis C., 4,645,656, Cl. 423-396.000.
Van Heelsbergen, Teunis R.: *See*—
Kemner, Rudolf; Kalmijn, Hilco T.; and Van Heelsbergen, Teunis R., 4,707,662, Cl. 324-318.000.
van Henegouwen, Richard B.: *See*—
Boeren, Edward G.; and van Henegouwen, Richard B., 4,652,280, Cl. 55-67.000.
Van Herck, Andre J. B. M.; and Etman, Johannes G. W., to U.S. Philips Corporation. High-pressure discharge lamp. 4,651,056, 3-17-87, Cl. 313-623.000.
Van Herrtum, John C.; and Holmsen, Theodore W., to Dow Chemical Company, The. N,N,N-tributyl-(3-hydroxybenzyl)ammonium salts and a method for increasing yield of soybeans. 4,687,509, 8-18-87, Cl. 71-121.000.
van Hes, Roelof: *See*—
Brouwer, Marius S.; Grosscurt, Arnoldus C.; and van Hes, Roelof, 4,656,193, Cl. 514-594.000.
Van Heteren, Jan: *See*—
Bodor, Janos; and Van Heteren, Jan, 4,656,045, Cl. 426-601.000.
Van Heuvelen, Alan, to Research Corporation. Blood glucose monitor. 4,704,029, 11-3-87, Cl. 356-39.000.
Vanhille, Andre A. F. L., to Sobemi N.V. Method of forming a cylindrical sleeve. 4,682,485, 7-28-87, Cl. 72-133.000.
Van Hoof, Isidoor K.; and Aarts, Herman J. C. M., to U.S. Philips Corporation. Heterogeneous wire and pane provided with such a wire. 4,711,824, 12-8-87, Cl. 428-607.000.
van Hoof, Leonardus A. H., to U.S. Philips Corporation. Method of manufacturing bismuth germanate crystals. 4,708,763, 11-24-87, Cl. 156-616.00R.
Van Hooff, Henricus J. J. M., to Van Rietschoten & Houwens Technische Handelmaatschappij B.V. Hydraulic circuit with accumulator. 4,693,080, 9-15-87, Cl. 60-414.000.
Van Hook, James P., to Foster Wheeler Energy Corporation. Method of using solar energy in a chemical synthesis process. 4,668,494, 5-26-87, Cl. 423-392.000.
Van Hoomissen, Robert L.; Briscoe, Terry L.; and Barker, Don P. S., to ESCO Corporation. Dump block for dragline bucket. 4,640,496, 2-3-87, Cl. 254-415.000.
VanHooser, Neal E. Bottom-hole pump fluid flow controller. 4,715,794, 12-29-87, Cl. 417-313.000.
van Hooydonk, Antonius H. G.: *See*—
Friesen, Henry; and van Hooydonk, Antonius H. G., 4,704,915, Cl. 74-471.0XY.
Vanhorebeek, Remi: *See*—
Muller, Jurgen; Loots, Francois P.; and Vanhorebeek, Remi, 4,688,917, Cl. 354-320.000.
Van Horn, Frank. Hoof trimmer device. 4,663,847, 5-12-87, Cl. 30-150.000.
Van Horn, Gary R.: *See*—
Kartchner, Earl M.; Price, Robert; and Van Horn, Gary R., 4,638,494, Cl. 375-2.200.
Van Horn, H. William: *See*—
Samaras, George M.; Blaumanis, Otis R.; and Van Horn, H. William, 4,649,928, Cl. 128-672.000.
Van Horssen, Charles A. Thread gauge. 4,691,441, 9-8-87, Cl. 33-199.00R.
Van Hout, James E.; and Klein, Frank H. Panel displays, framed lighted switch actuators therefor. 4,710,858, 12-1-87, Cl. 362-95.000.
Van Hove, Eddy F. C.: *See*—
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Spierings, Gijsbertus A. C. M.; and Van Hove, Eddy F. C., 4,684,847, Cl. 313-493.000.
Van Hoye, Willibald, to Samsonite Corporation. Luggage case and wheel roller or caster assembly therefor. 4,707,881, 11-24-87, Cl. 16-44.000.
Van Huyssteen, Jan H. H. Shot blasting wheels. 4,649,673, 3-17-87, Cl. 51-434.000.
Vanicky, Alex A.: *See*—
Marshall, James W.; Haaser, Michael J.; Vanicky, Alex A.; and Podhorniak, Gary S., 4,687,093, Cl. 198-465.200.
Vanier, Noel R.; and Lum, Kin K., to Eastman Kodak Company. High molecular weight polycarbonate receiving layer used in thermal dye transfer. 4,695,286, 9-22-87, Cl. 8-471.000.
Vanier, Noel R.; and Lum, Kin K., to Eastman Kodak Company. Cellulosic binder for dye-donor element used in thermal dye transfer. 4,700,207, 10-13-87, Cl. 503-227.000.
Vanier, Noel R.; Lum, Kin K.; and Bowman, Wayne A., to Eastman Kodak Company. Dye-barrier/subbing layer for dye-donor element used in thermal dye transfer. 4,700,208, 10-13-87, Cl. 503-227.000.
Vanier, Noel R.; Lum, Kin K.; and Bowman, Wayne A., to Eastman Kodak Company. Dye-barrier and subbing layer for dye-donor element used in thermal dye transfer. 4,716,144, 12-29-87, Cl. 503-227.000.
Vanier, Noel R.; Byers, Gary W.; and Weber, Helmut, to Eastman Kodak Company. Non-imagewise reheating of transferred dyes in thermal dye transfer elements. 4,716,145, 12-29-87, Cl. 503-227.000.
Van Iperen, Willem H. P., to Sea-Land Corporation, Inc. Hanging multi-deck system for storing and shipping articles in containers. 4,637,763, 1-20-87, Cl. 410-52.000.
van Iperen, Willem H. P., to Sea-Land Service Inc. Apparatus for intermodal transport of highway containers. 4,665,834, 5-19-87, Cl. 105-4.100.
Van Iperen, Willem H. P., to Sea-Land Corporation, Inc. Articulated car for intermodal containers. 4,667,603, 5-26-87, Cl. 105-4.100.
Van Iperen, Willem H. P.; Sandt, Henry J., Jr.; and Aronson, Eric G., to Sea-Land Corporation, Inc. Refrigerated carrier floor clamp. 4,695,211, 9-22-87, Cl. 410-77.000.
Van Iseghem, Augustinus E. M., to Cobelplast N.V.S.A. Thermoformable, multi-layer plastic sheet having gas barrier properties. 4,681,797, 7-21-87, Cl. 428-212.000.
Van Kampen, Craig L., to Minnesota Mining and Manufacturing Company. Implant with attachment surface. 4,675,409, 6-16-87, Cl. 623-23.000.
Van Kampen, Craig L.: *See*—
Sauk, John J.; and Van Kampen, Craig L., 4,698,326, Cl. 514-7.000.
van Kampen, Jan, to U.S. Philips Corporation. Flame protection circuit. 4,672,324, 6-9-87, Cl. 328-6.000.
Vankar, Vasant D.: *See*—
Chopra, Kasturi L.; Banshah, Roitan F.; Deshpandey, Chandra V.; and Vankar, Vasant D., 4,714,625, Cl. 427-35.000.
van Kasteren, Adrianus C.: *See*—
Franken, Adrianus J. J.; van Bers, Walthetus A. M.; van Bree, Rene M.; and van Kasteren, Adrianus C., 4,647,166, Cl. 353-79.000.
van Kemenade, Johannes T. C.: *See*—
de Hair, Johannes T. W.; van Kemenade, Johannes T. C.; and Berns, Everhardus G., 4,644,223, Cl. 313-487.000.
VanKerkhove, Alan P.: *See*—
Leclental, Mark; Lee, James K.; and VanKerkhove, Alan P., 4,684,602, Cl. 430-363.000.
van Ketel, Hendrik, to Gusto Engineering C.V. Crane for heavy loads, in particular offshore crane, and process for the mooring of a crane. 4,664,269, 5-12-87, Cl. 212-175.000.
Van Ketel, Hendrik, to Gusto Engineering C.V. Process for mooring a crane for heavy loads. 4,673,093, 6-16-87, Cl. 212-175.000.
Van Kirk, LeRoy, to LRV Corporation. Vehicle tool box with peripheral drain means. 4,674,665, 6-23-87, Cl. 224-273.000.
Van Klompenburg, Marlo, to Rolscreen Company. Field installable rolling screen assembly. 4,658,879, 4-21-87, Cl. 160-271.000.
Van Klompenburg, Marlo, to Rolscreen Company. Field installable rolling screen assembly. 4,702,297, 10-27-87, Cl. 160-271.000.
van Koesveld, Jan L., to U.S. Philips Corporation. Cathode-ray tube provided with a luminescent indium orthoborate. 4,652,793, 3-24-87, Cl. 313-468.000.
Van Kuren, Gerald B. Collapsible picnic table. 4,648,652, 3-10-87, Cl. 297-159.000.
Van Kuren, Thomas A.: *See*—
Carson, Dennis W.; Schmitt, Robert J.; Seneker, Carl A.; Van Kuren, Thomas A.; and Wallace, David R., 4,680,346, Cl. 525-486.000.
van Kuringen, Hendricus M. J. C.: *See*—
Peeters, Hendrikus W. J.; van Kuringen, Hendricus M. J. C.; and Hoeymakers, Gerardus M., 4,705,391, Cl. 355-77.000.
Van Laethem, Robert; Van Cauter, Albert; and Terneu, Robert, to Glaverbel. Apparatus for forming a coating on a hot vitreous substrate by spraying the substrate while heating the zone that is sprayed. 4,664,059, 5-12-87, Cl. 118-323.000.
Van Laethem, Robert: *See*—
Van Cauter, Albert; Terneu, Robert; and Van Laethem, Robert, 4,655,810, Cl. 65-60.400.
van Langen, Jean M., to Hoogovens Groep B.V. Apparatus for the production of liquid iron from iron oxide. 4,687,183, 8-18-87, Cl. 266-156.000.
Vanlangendonck, Robert: *See*—
Spencer, Larry K.; Wilson, Clyde D.; and Vanlangendonck, Robert, 4,645,431, Cl. 417-401.000.
Vanlautem, Noel; and Gilain, Jacques, to Solvay & Cie. (Societe Anonyme). Process for extracting poly-beta-hydroxybutyrates by means

of a solvent from an aqueous suspension of microorganisms. 4,705,604, 11-10-87, Cl. 203-67.000.
van Le, Hung: *See*—
Johansen, David L.; and van Le, Hung. 4,664,349, Cl. 248-150.000.
Van Leemput, Leo J. J.: *See*—
Van Dijck, Paul C. M.; Ligtvoet, Theo F. M. C.; and Van Leemput, Leo J. J., 4,648,988, Cl. 252-602.000.
van Leest, Johannes H. F. M.: *See*—
Khoe, Giok D.; Rittuch, Dieter; Schmidt, Bernhard; and van Leest, Johannes H. F. M., 4,657,338, Cl. 350-96.210.
van Leeuwen, Antonie, to U.S. Philips Corporation. Method and apparatus for generating a S.E.C.A.M. modulating signal. 4,665,434, 5-12-87, Cl. 358-25.000.
Van Leeuwen, Gerrit H.: *See*—
Kaizer, Adrianus J. M.; and Van Leeuwen, Gerrit H., 4,709,391, Cl. 381-98.000.
Van Leeuwen, Willem A.; Poels, Eduard K.; Staal, Leendert H.; and Verzijl, Dirk, to Internationale Octrooi Maatschappij "Octropa" BV. Catalyst suitable for hydrotreating. 4,665,048, 5-12-87, Cl. 502-221.000.
van Leijenhorst, Harro M.; and Suringh, Jan F., to Staat der Nederlanden (Staatsbedrijf der Posterijen, Telegrafie en Telefonie). Fine-adjusting device for accurate positioning an adjusting element. 4,691,586, 9-8-87, Cl. 74-479.000.
Van Lennep, William B.: *See*—
Zimmermann, Philip A.; and Van Lennep, William B., 4,700,397, Cl. 381-169.000.
Vanlerberghe, Guy; and Sebag, Henri, to L'Oreal. Non-ionic surface-active agents and compositions in which they are present. 4,666,711, 5-19-87, Cl. 424-70.000.
Vanlerberghe, Guy; and Sebag, Henri, to L'Oreal. Polythioalkanecarboxylic anionic products, theur use and preparation. 4,668,509, 5-26-87, Cl. 424-72.000.
Vanlerberghe, Guy; and Sebag, Henri, to L'Oreal. Polyanionic compounds derived from aromatic ethers of polyglycerols. 4,678,665, 7-7-87, Cl. 424-72.000.
Vanlerberghe, Guy: *See*—
Kalopissis, Gregoire; and Vanlerberghe, Guy, 4,695,653, Cl. 564-505.000.
Sebag, Henri; and Vanlerberghe, Guy, 4,656,030, Cl. 424-47.000.
Sebag, Henri; and Vanlerberghe, Guy, 4,657,556, Cl. 8-405.000.
Sebag, Henri; and Vanlerberghe, Guy, 4,677,232, Cl. 568-619.000.
Van Leunen, Johannes A. J., to U.S. Philips Corporation. X-ray image intensifier tube including a luminescent layer which absorbs secondary radiation. 4,712,011, 12-8-87, Cl. 250-361.00R.
van Leusen, Adriaan M.: *See*—
van Leusen, Albert M.; and van Leusen, Adriaan M., 4,647,410, Cl. 540-30.000.
van Leusen, Albert M.; and van Leusen, Adriaan M.; to Gist-Brocades N.V. Novel 17-substituted steroids. 4,647,410, 3-3-87, Cl. 540-30.000.
van Leynseele, Francis J.: *See*—
Graupp, Frederick G.; and van Leynseele, Francis J., 4,646,243, Cl. 364-439.000.
Van Lier, Franciscus P.; van der Linde, Leendert M.; and van der Weerdt, Antonius J. A., to Naarden International N.V. Perfume compositions and perfumed products which contain one or more 4,7-alkadienals as the essential substance. 4,687,599, 8-18-87, Cl. 512-27.000.
van Lier, Franciscus P.: *See*—
van der Linde, Leendert M.; van Lier, Franciscus P.; and van der Weerdt, Antonius J. A., 4,704,232, Cl. 512-19.000.
van Lier, Johannes C., to U.S. Philips Corporation. System for playing back a film recorded as a video signal on a disc-shaped record carrier. 4,677,500, 6-30-87, Cl. 358-342.000.
VanLierop, John G. M., to 554072 Ontario Inc. Scissor jack. 4,659,066, 4-21-87, Cl. 254-122.000.
van Limpt, Gerardus C. S. W.: *See*—
van Weert, Michael J. C.; and van Limpt, Gerardus C. S. W., 4,678,965, Cl. 313-451.000.
van Lith, Josef J.: *See*—
van Esdonk, Johannes; van Hal, Henricus A. M.; and van Lith, Josef J., 4,671,777, Cl. 445-51.000.
Van Lommen, Guy R. E.; De Bruyn, Marcel F. L.; and Schroven, Marc F. J., to Janssen Pharmaceutica, N.V. Derivatives of 2,2'-iminobisethanol. 4,654,362, 3-31-87, Cl. 514-452.000.
van Loon, Gerardus M., to U.S. Philips Corporation. Control circuit with recovery protection. 4,656,604, 4-7-87, Cl. 364-900.000.
van Luik, Rudolf F.: *See*—
Biesheuvel, Adrian A.; van Luik, Rudolf F.; and Meijer, Rudolf H., 4,664,750, Cl. 201-1.000.
van Luit, Pieter J. N.: *See*—
Loozen, Hubert J. J.; and van Luit, Pieter J. N., 4,634,694, Cl. 514-177.000.
Van Luyt, Balthasar A. G.: *See*—
Bruno, Richard; and Van Luyt, Balthasar A. G., 4,707,729, Cl. 358-13.000.
van Maaren, Richard D.: *See*—
Bracht, Jeffrey L.; Heinrich, Martin W.; van Maaren, Richard D.; and Sleder, Richard L., 4,677,940, Cl. 123-2.000.
Van Malderghem, Edmund G.; and Pennock, Thomas G., to Moore Business Forms, Inc. Carbon security system for credit card sales. 4,687,228, 8-18-87, Cl. 282-9.00R.
Van Malderghem, Edmund G.; Monico, Dominick L.; and Anderson, Michael W., to Moore Business Forms, Inc. Die cut window mailer with self-imaging sheet. 4,705,298, 11-10-87, Cl. 282-11.50A.
VanManen, Dick T., to Veplex Corporation. Automotive panel bracket. 4,693,657, 9-15-87, Cl. 411-467.000.
Van Maren, David J., to Hewlett-Packard Company. Direct-injection FIFO shift register. 4,672,646, 6-9-87, Cl. 377-70.000.
Vanmark Corporation: *See*—
Wallace, Joseph E.; and Shaffer, Robert L., 4,706,556, Cl. 99-330.000.
Van Mastrigt, Max, to Varian Associates, Inc. Chemical vapor deposition apparatus. 4,709,655, 12-1-87, Cl. 118-719.000.
Van Meel, Jacobus C. A.: *See*—
Austel, Volkhard; Hauel, Norbert; Heider, Joachim; Reiffen, Manfred; Van Meel, Jacobus C. A.; and Diederen, Wilh, 4,656,171, Cl. 514-250.000.
Austel, Volkhard; Heider, Joachim; Hauel, Norbert; Reiffen, Manfred; van Meel, Jacobus C. A.; and Diederen, Wilh, 4,670,436, Cl. 514-249.000.
van Meel, Jacques: *See*—
Heider, Joachim; Hauel, Norbert; Austel, Volkhard; Noll, Klaus; Bomhard, Andreas; van Meel, Jacques; and Diederen, Wilh, 4,716,169, Cl. 514-299.000.
van Meerbergen, Jozef L.: *See*—
van Wijk, Franciscus J. A.; van Meerbergen, Jozef L.; Welten, Fransiscus P. J. M.; and Sluijter, Robert J., 4,689,738, Cl. 364-200.000.
van Megen, Wilhelmus H.: *See*—
Bams, Gijsbert W.; and van Megen, Wilhelmus H., 4,650,690, Cl. 426-602.000.
Van Meirvenne, Marc R.: *See*—
De Boodt, Marcel F. L. P.; De Strooper, Eric B. A.; and Van Meirvenne, Marc R., 4,697,961, Cl. 405-264.000.
Van Meter, C. Sterling: *See*—
Reid, Daniel G.; and Van Meter, C. Sterling, 4,658,261, Cl. 343-771.000.
VanMeter, Charles, to CF Industries, Inc. Flange alignment tool and method for using same. 4,662,055, 5-5-87, Cl. 29-467.000.
Van Meurs, Johannes M., to U.S. Philips Corporation. DC/AC converter for feeding a metal vapor discharge tube. 4,684,851, 8-4-87, Cl. 315-224.000.
Van Meurs, Johannes M., to U.S. Philips Corporation. Electric arrangement for regulating the luminous intensity of at least one discharge lamp. 4,712,045, 12-8-87, Cl. 315-224.000.
Vanmeurs, Peter; Waxman, Monroe H.; and Vinegar, Harold J., to Shell Oil Company. In-situ steam drive oil recovery process. 4,640,352, 2-3-87, Cl. 166-245.000.
Van Meurs, Peter; and Glandt, Carlos A., to Shell Oil Company. Thermal drainage process for recovering hot water-swollen oil from a thick tar sand. 4,667,739, 5-26-87, Cl. 166-250.000.
Van Meurs, Peter: *See*—
Van Egmond, Cor F.; and Van Meurs, Peter, 4,704,514, Cl. 219-278.000.
van Mil, Job F. P.: *See*—
Bierhoff, Martinus P. M.; van Mil, Job F. P.; Schoofs, Franciscus A. C. M.; and Slomp, Albert H., 4,663,749, Cl. 369-44.000.
Schoofs, Franciscus A. C. M.; Bierhoff, Martinus P. M.; Van Mil, Job F. P.; and Slomp, Albert H., 4,689,501, Cl. 307-362.000.
Schoofs, Franciscus A. C. M.; Bierhoff, Martinus P. M.; Van Mil, Job F. P.; and Slomp, Albert H., 4,712,091, Cl. 340-347.0DA.
Vann, Roy R.; Brieger, Emmet F.; George, Flint R.; Colle, Edward A., Jr.; and Jones, Hilton B., to Halliburton Company. Gun firing system using fluid filled pressure balance tubing. 4,635,733, 1-13-87, Cl. 175-4.560.
Vannauker, David L.: *See*—
Hicks, Michael S.; and Vannauker, David L., 4,678,556, Cl. 208-96.000.
van Nes, Cornelis G. J.: *See*—
Verhoeven, Laurentius M.; and van Nes, Cornelis G. J., 4,696,529, Cl. 439-267.000.
Van Ness, Bradford O. Automatic access control system for vehicles. 4,665,395, 5-12-87, Cl. 340-825.310.
Van Ness, John H.; and Warner, J. Bruce, to Monsanto Company. Preparation of N-acetyl-p-aminophenol. 4,670,589, 6-2-87, Cl. 564-144.000.
Van Neste, Walter A.: *See*—
Darden, Jerome W.; Triebel, Carol A.; Van Neste, Walter A.; and Maes, Jean P., 4,647,392, Cl. 252-75.000.
Van Nguyen, On: *See*—
Allred, David; Dec, Krystyna; Jackett, Nancy; Van Nguyen, On; and Reyes, Jaime, 4,654,224, Cl. 427-34.000.
Van Nice, H. Lee; Bostwick, Myron A., Jr.; and Kongslie, Keith F., to Tektronix, Inc. Method and apparatus for interconnecting and hermetically sealing ceramic components. 4,713,520, 12-15-87, Cl. 219-121.0LC.
Vannier, Serge; Garotta, Robert; Lozes, Andre; and Vidal, Jean C., to Societe Nationale Elf Aquitaine (Production); and Compagnie Generale de Geophysique. Method and device for optimization of seismic data. 4,636,956, 1-13-87, Cl. 364-421.000.
Vannoni, Adrio L.: *See*—
Green, LaVerne M.; Vannoni, Adrio L.; and Pummell, Ivan K., 4,696,096, Cl. 29-829.000.
Van Noord, Andrew J.: *See*—
Mattox, Ernest M.; and Van Noord, Andrew J., 4,699,376, Cl. 272-131.000.
Van Nostrand, Willard R. Mirror assembly for determining distance to passed vehicle. 4,678,294, 7-7-87, Cl. 350-611.000.

Van Noy, John H.: *See—*
Carroll, James J.; Frind, Gerhard; and Van Noy, John H., 4,661,665, Cl. 200-144.00B.
Frind, Gerhard; Carroll, James J.; Van Noy, John H.; Leach, John G.; and Ranjan, Radha K., 4,638,283, Cl. 337-162.000.

Vannucci, Giovanni: *See—*
Foschini, Gerard J.; and Vannucci, Giovanni, 4,703,474, Cl. 370-18.000.

Vano, Joseph A.: *See—*
Klinvex, Daniel E.; Crusi, Suzanne B.; Kepes, William E.; and Vano, Joseph A., 4,642,215, Cl. 376-249.000.

Van Offenwert, Theophilus T. J. M.: *See—*
Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef F.; and Van Offenwert, Theophilus T. J. M., 4,634,704, Cl. 514-253.000.
Janssens, Frans E.; Van Offenwert, Theophilus T. J. M.; Stokbroekx, Raymond A.; and Boar, Bernard R., 4,689,330, Cl. 514-321.000.
Janssens, Frans E.; Torremans, Joseph L. G.; Hens, Jozef E.; and Van Offenwert, Theophilus T. J. M., 4,695,569, Cl. 514-258.000.

van Ohrschot, Theodorus G. J., to U.S. Philips Corporation. Semiconductor device for processing electro-magnetic radiation. 4,653,057, 3-24-87, Cl. 372-46.000.

Van Ommen, Alfred H., to U.S. Philips Corporation. Method of simultaneously manufacturing semiconductor regions having different dopings. 4,653,176, 3-31-87, Cl. 29-578.000.

Van Ooijen, Johannes A. C.; and Reigrok, Jacobus J. M., to U.S. Philips Corporation. Magnetic sensor having closely spaced and electrically parallel magnetoresistive layers of different widths. 4,686,472, 8-11-87, Cl. 324-252.000.

van Oorschot, Bob P. J.: *See—*
van den Berg, Wilhemus H.; Homs, Martinus H.; and van Oorschot, Bob P. J., 4,691,572, Cl. 73-643.000.

Van Oort, Aart B.: *See—*
Wife, Richard L.; Snel, Johannes J. M.; and Van Oort, Aart B., 4,683,338, Cl. 568-12.000.

Van Oosting, Barbara B., executrix: *See—*
Kramer, John F., deceased; Van Oosting, Barbara B., executrix; and Wessberg, Karen S., executrix, 4,716,508, Cl. 362-431.000.

Van Opstal, Martin: *See—*
Dijkstra, Albert J.; and Van Opstal, Martin, 4,698,185, Cl. 260-403.000.

Vanore, Silvestro: *See—*
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Van Ornum, Charles A., to McDonnell Douglas Corporation. Apparatus for air gapping the armature in a compound spool valve. 4,693,001, 9-15-87, Cl. 29-759.000.

Van Orsdel, James. Method and apparatus for detecting motion through a transparent enclosure, with spurious information detecting and compensating means. 4,636,637, 1-13-87, Cl. 250-231.0SE.

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van Pey, Hans-Theo: *See—*
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van Rassel, William F., to Scientific Atlanta, Inc. Synchronization recovery in a communications system. 4,697,277, 9-29-87, Cl. 375-116.000.

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Baker, Rodney C.; and Van Rensburg, Phillippus J., 4,685,423, Cl. 119-86.000.

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Goossens, Laurentius M. J.; te Raa, Gerhardus A.; and van Rheenen, Bernhard J. P., 4,641,333, Cl. 378-144.000.

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Hanser, Paul E.; and Van Roekel, Leroy A., 4,655,269, Cl. 144-193.00A.

Van Roemburg, Franciscus M. J.: *See—*
Tielemans, Leonardus P. M.; and Van Roemburg, Franciscus M. J., 4,678,348, Cl. 384-114.000.

Van Roermund, Arthur H. M.; and Coppelmans, Petrus M. C., to U.S. Philips Corporation. Integrated RC filter with resistor trimming. 4,691,171, 9-1-87, Cl. 328-167.000.

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Lewis, Henry W.; and Van Roojen, Jan, 4,709,465, Cl. 29-568.000.

van Rooji, Jacobus H. M.: *See—*
Horowitz, Alexandre; Cuypers, Martinus H.; and van Rooji, Jacobus H. M., 4,642,079, Cl. 474-219.000.

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Gijzen, Wilhelmus A. H.; and van Rosmalen, Gerard E., 4,694,442, Cl. 369-44.000.

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Bouwens, Jan M. M.; Hooghiemstra, Ferdinand M. H. F.; and Van Ruiten, Leonardus, 4,664,368, Cl. 271-209.000.

van Rumpt, Herman W.; and Razzell, Charles J. H., to U.S. Philips Corporation. Voltage controlled oscillator including two variable gain feedback circuits. 4,638,263, 1-20-87, Cl. 331-116.00R.

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Rapkin, Myron C.; Schoengold, Ronald J.; Shockey, David R.; and Van Rysselberghe, Pierre C., 4,678,757, Cl. 436-169.000.

van Ryswyk, Hal: *See*—
Ellis, Arthur B.; and van Ryswyk, Hal, 4,710,476, Cl. 436-172.000.
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VanSant, Glen J., to RCA Corporation. Magnetic biasing apparatus for magneto-optic recording including a permanent magnet. 4,701,895, 10-20-87, Cl. 369-13.000.
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Nolf, Jean-Marie E.; Genbrugge, Hubert; Buekers, Valere; Mendes, Luiz N.; Doucet, Jos; and Vansant, Jan, 4,648,168, Cl. 29-447.000.
Overbergh, Noel M. M.; and Vansant, Jan, 4,689,474, Cl. 219-528.000.
Van Santen, Rutger A.: *See*—
Lewis, Robert M.; and Van Santen, Ru'ger A., 4,637,992, Cl. 502-84.000.
Van Santvoort, Gerardus P. T. M.: *See*—
Klugar, Karl; and Van Santvoort, Gerardus P. T. M., 4,679,731, Cl. 238-2.000.
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VanSchaick, Thomas E.: *See*—
Cotzas, George M.; VanDusen, Morris V.; and VanSchaick, Thomas E., 4,682,068, Cl. 310-198.000.
van Schalkwyk, Jacobus C. J.: *See*—
Prinsloo, Paul M.; Botha, Theunis J.; van Schalkwyk, Jacobus C. J.; and Smit, Nimrod J. J., 4,674,628, Cl. 206-38.100.
van Schouwenburg, Aaltje: *See*—
Giddey, Claude; Ayerbe, Andre ; and van Schouwenburg, Aaltje, 4,671,966, Cl. 426-589.000.
van Schouwenburg, Gerrit A. Process for making a food product from cheap meat chunks. 4,680,183, 7-14-87, Cl. 426-64.000.
van Seggelen, Godefridus G.: *See*—
Sanders, Rudolf; and van Seggelen, Godefridus G., 4,687,965, Cl. 313-318.000.
Vanselous, Joseph S., to Ford Motor Company. Control valve system for a four-speed automatic power transmission transaxle. 4,637,281, 1-20-87, Cl. 74-869.000.
Van Selous, Joseph S., to Ford Motor Company. Control system for a multiple ratio transmission having a lockup clutch torque converter. 4,665,770, 5-19-87, Cl. 74-733.000.
Van Shoubroueck, Fred B.: *See*—
Noel, Vincent R.; and Van Shoubroueck, Fred B., 4,685,376, Cl. 89-1.140.
Van Sickle, Dale E., to Eastman Kodak Company. Preparation of dimethyl 4,4'-stilbenedicarboxylate and intermediates therefor. 4,713,472, 12-15-87, Cl. 560-53.000.
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Van Stekler, Robert H., to General Electric Company. Miniature lamp arrays having improved lamp retention features. 4,679,126, 7-7-87, Cl. 362-226.000.
Van Simaeys, Francoise C. G.; Leurs, Anna M. C.; Upp, Daniel C.; Lawrence, Alan J.; and Cotton, John M., to International Standard Electric Corporation. Telecommunication switching system and priority arrangement used therein. 4,641,301, 2-3-87, Cl. 370-58.000.
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Van Sluys, Robert N. J., to U.S. Philips Corporation. Optical recording/playback apparatus having a focusing control system with reduced spot-offset sensitivity. 4,661,944, 4-28-87, Cl. 369-44.000.
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Van Slyke, Allan S.: *See*—
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Van Sprang, Hendrik A.; and De Vaan, Adrianus J. S. M., to U.S. Philips Corporation. Liquid crystal display device with a hysteresis. 4,664,483, 5-12-87, Cl. 350-346.000.
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Van Steenburg, Kip. Child car seat convertible into a stroller. 4,678,196, 7-7-87, Cl. 280-47.410.
Van Steenburg, Kip, to Amatech Corporation. Armboard mounting assembly. 4,698,837, 10-6-87, Cl. 378-208.000.
Van Steenburg, Kip P.: *See*—
Grady, John K.; Rice, Paul G.; and Van Steenburg, Kip P., 4,649,560, Cl. 378-196.000.
Van Steenburgh, Leon R., Jr., to Wilkerson Corporation. Refrigerated gas separation apparatus. 4,689,969, 9-1-87, Cl. 62-474.000.
Van Steenwyk, Donald H., to Applied Technologies Associates. Borehole initial alignment and change determination. 4,706,388, 11-17-87, Cl. 33-304.000.
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Anderson, Roger N.; Hobart, Michael A.; and Van Steveninck, William, 4,676,664, Cl. 374-136.000.
van Stiphout, Johannes G. V.: *See*—
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Vantard, Georges, to Rhone-Poulenc S.A. Process/apparatus for the withdrawal/return of body fluids. 4,655,742, 4-7-87, Cl. 604-6.000.
Vantard, Georges: *See*—
Malbrancq, Jean-Michel; and Vantard, Georges, 4,648,866, Cl. 604-5.000.
Van Tillburg, Kees J., to Procter & Gamble Company, The. Shaped sanitary napkin with flaps. 4,687,478, 8-18-87, Cl. 604-387.000.
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VanTosh, Brian H. Method and device for repairing vinyl siding and the like. 4,672,788, 6-16-87, Cl. 52-514.000.
Vantouroux, Patrick, to Compagnie Deutsch. Connector. 4,666,325, 5-19-87, Cl. 403-13.000.
van Tran, Hiep, to Thomson Components - Mostek Corporation. High speed NOR gate. 4,645,952, 2-24-87, Cl. 307-448.000.
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Van Pyne, Richard G., to BancTec Inc. Digital document scanning system. 4,672,186, 6-9-87, Cl. 235-470.000.
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Van Uitert, LeGrand G.: *See*—
Camlibel, Irfan; Chin, Aland K.; Singh, Shobha; Van Uitert, LeGrand G.; and Zydzik, George J., 4,634,474, Cl. 148-1.500.
van Unen, Lambert H. T.: *See*—
Lemstra, Pieter J.; Meijer, Henricus E. H.; and van Unen, Lambert H. T., 4,668,717, Cl. 523-322.000.
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Roza, Engel; and Van Veenendaal, Hendrik G., 4,639,911, Cl. 370-69.100.
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Van Veghel, Andreas C.: *See*—
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van Velzen, Daniel; and Langenkamp, Heinrich W., to European Atomic Energy Community (Euratom). Process and a device for flue gas desulphurization. 4,668,490, 5-26-87, Cl. 423-242.000.
van Velzen, Johan F. G.: *See*—
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van Vliet, Arie, to Exxon Research & Engineering Co. Hydroformylation of olefins. 4,647,707, 3-3-87, Cl. 568-882.000.
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van Vliet, Johannes A. J. M.: *See*—
Postma, Pieter; and van Vliet, Johannes A. J. M., 4,661,746, Cl. 315-248.000.
van Voskuilen, Dirk F.; and van Voskuilen, Frans. Method and apparatus for removing pipe coatings. 4,677,998, 7-7-87, Cl. 134-181.000.
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van Voskuilen, Dirk F.; and van Voskuilen, Frans, 4,677,998, Cl. 134-181.000.

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Van Wagenen, Richard A., to Biomaterials International, Inc. Gas cell for raman scattering analysis by laser means. 4,676,639, 6-30-87, Cl. 356-246.000.
Van Wagenen, Richard A.: *See—*
Benner, Robert E.; Andrade, Joseph D.; Van Wagenen, Richard A.; and Westenskow, Dwayne R., 4,648,714, Cl. 356-301.000.
Van Wagener, Raymond H.: *See—*
Nabstedt, Elmer J.; and Van Wagener, Raymond H., 4,636,763, Cl. 336-192.000.
Van Wagoner, John D. Insulation panel for a roofing system or the like. 4,651,494, 3-24-87, Cl. 52-593.000.
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van Wersch, Kurt, to A. Monforts GmbH & Co. Method and apparatus for applying evaporable finishing means or textile material. 4,644,601, 2-24-87, Cl. 8-149.200.
van Wesenbeeck, Cornelis M. Applicator device for precision paintwork. 4,705,418, 11-10-87, Cl. 401-15.000.
Van Wienen, James L., to NTC Electronics, Inc. Alarm reporting system. 4,652,859, 3-24-87, Cl. 340-503.000.
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Van Winkle, Denzal W. Blowout preventer, shear ram, shear blade and seal therefor. 4,646,825, 3-3-87, Cl. 166-55.000.
Van Winkle, Denzal W. Self actuating locking and unlocking arrangement and method for reciprocating piston type actuators. 4,690,033, 9-1-87, Cl. 91-43.000.
Van Winkle, Denzal W. Bonded mechanically inner connected seal arrangement for a blowout preventer. 4,690,411, 9-1-87, Cl. 277-166.000.
Van Woensel, Johannes Maria B., to Du Pont de Nemours, E. I., and Company. Connector with conductor retention means. 4,647,131, 3-3-87, Cl. 339-74.00R.
van Woudenberg, Jan F.: *See—*
Lotterbach, Gerhard; Schenk, Manfred; Zucker, Udo; Van Belzen, David; and van Woudenberg, Jan F., 4,700,305, Cl. 364-431.030.
VanWyk, Jan W.: *See—*
Burns, Robert A.; and VanWyk, Jan W., 4,694,038, Cl. 524-590.000.
Vanypre, Dominique: *See—*
Thuy, Pham D.; and Vanypre, Dominique, 4,698,768, Cl. 364-521.000.
Van Zandt, Willie L. Portable adjustable mirror assembly. 4,707,087, 11-17-87, Cl. 350-638.000.
Van Zanten, Adrianus T.; Veendrick, Hendrikus J. M.; Pfennings, Leonardus C. M. G.; and Gubbels, Wilhelmus C. H., to U.S. Philips Corporation. Logic boatstrapping circuit having a feedforward kicker circuit. 4,697,111, 9-29-87, Cl. 307-482.000.
Van Zanten, Adrianus T., to U.S. Philips Corporation. Circuit for generating a substrate bias. 4,705,966, 11-10-87, Cl. 307-296.00R.
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van Zanten, Anton; Heess, Gerhard; and Geering, Hans P., to Robert Bosch GmbH. Method for ascertaining the set-point braking moment for the various wheels of a vehicle. 4,679,866, 7-14-87, Cl. 303-104.000.
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Heess, Gerhard; and van Zanten, Anton, 4,709,969, Cl. 303-114.000.
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Van Zee, Daryl W.: *See—*
Newendorp, Vincent W.; and Van Zee, Daryl W., 4,702,066, Cl. 56-341.000.
Vanzetti, Riccardo; and Dostoomian, Ashod S., to Vanzetti Systems, Inc. Method and apparatus for placing and electrically connecting components on a printed circuit board. 4,696,101, 9-29-87, Cl. 29-740.000.
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Vanzetti Systems, Inc.: *See—*
Dostoomian, Ashod S.; and Vanzetti, Riccardo, 4,657,169, Cl. 228-103.000.
Vanzetti, Riccardo; and Dostoomian, Ashod S., 4,696,101, Cl. 29-740.000.
Vanzetti, Riccardo; and Dostoomian, Ashod S., 4,696,104, Cl. 29-840.000.
Vanzetto, Daniel: *See—*
Bartolo, William; De Robertis, Patrick; and Vanzetto, Daniel, 4,687,891, Cl. 200-153.00G.
Van Zyl, Theodore D. Manufacture of electrical coils. 4,635,346, 1-13-87, Cl. 29-596.000.
Vap, Rudolph D.: *See—*
Getgey, William F.; and Vap, Rudolph D., 4,662,856, Cl. 446-280.000.
Vapor Corporation: *See—*
Beitner, Shlomo, 4,704,870, Cl. 62-3.000.
Condon, James E.; and Shankland, Nicholas B., 4,653,227, Cl. 49-110.000.
Vapor Energy Corp.: *See—*
Wyatt, W. Gerald; and Redus, Richard, 4,644,967, Cl. 137-599.000.
Vapormatt Limited: *See—*
Ashworth, Terence L., 4,646,485, Cl. 51-438.000.
Vaportek, Inc.: *See—*
Bryson, John D., 4,664,312, Cl. 239-59.000.
Vara International, Inc.: *See—*
Vara, Tomas E.; Mestemaker, Jerry L.; and Thakker, Bob R., 4,689,054, Cl. 55-61.000.
Vara, Tomas E.; Mestemaker, Jerry L.; and Thakker, Bob R., to Vara International, Inc. Process for the removal an disposal of airborne contaminants from paint booths and the like. 4,689,054, 8-25-87, Cl. 55-61.000.
Varadarajan, Hemmige D., to Advanced Micro Devices, Inc. Multilevel differential ECL/CML gate circuit. 4,670,673, 6-2-87, Cl. 307-455.000.
Varadarajan, Hemmige D., to Advanced Micro Devices, Inc. Dynamic ECL line driver circuit. 4,687,953, 8-18-87, Cl. 307-270.000.
Varadarajan, Krishnaraju: *See—*
McHenry, Robert J.; Brito, Joseph B.; Platt, Wilson T., Jr.; Reed, Robert J.; Varadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Bob C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,667,454, Cl. 53-425.000.
Varano, Richard F., to Sherwood Tool, Incorporated. Container forming apparatus having in-line blanker. 4,680,025, 7-14-87, Cl. 493-75.000.
Varaprath, Padmakumari J.: *See—*
Lo, Peter Y. K.; Ziemelis, Maris J.; and Varaprath, Padmakumari J., 4,698,406, Cl. 528-12.000.
Varaprath, Sudarsanan, to Dow Corning Corporation. Silicon-containing coatings and a method for their preparation. 4,696,834, 9-29-87, Cl. 437-223.000.
Varaprath, Sudarsanan: *See—*
Larock, Richard C.; and Varaprath, Sudarsanan, 4,650,881, Cl. 549-290.000.
Varbanov, Hristo P.: *See—*
Hadjiiski, Anatoli M.; Varbanov, Hristo P.; Mishonov, Michail T.; Stamov, Vladimir P.; Savov, Rosen P.; Radenkov, Strahil K.; Panev, Vladimir B.; and Velev, Alexander S., 4,638,607, Cl. 52-79.900.
Varco International, Inc.: *See—*
Boyadjieff, George I., 4,696,207, Cl. 81-57.340.
Boyadjieff, George I., 4,709,766, Cl. 175-52.000.
Vardanian, Armenak M.: *See—*
Martyshenko, Jury P.; Martyshenko, Sergei J.; Kouelnikov, Jury S.; Kutukhtin, Evgeny G.; Ilyasova, Nelli I.; Volkov, Jury S.; Vardanian, Armenak M.; and Petrosian, Misha S., 4,701,075, Cl. 405-217.000.
Varden, Arnold, to 596801 Ontario Limited. Ball Valve. 4,634,098, 1-6-87, Cl. 251-188.000.
Vardo, Jean-Claude: *See—*
Noirel, Yves M.; and Vardo, Jean-Claude, 4,700,184, Cl. 340-825.500.
Varel Manufacturing Co.: *See—*
Evans, Robert F., 4,666,000, Cl. 175-369.000.
Evans, Robert F., 4,687,066, Cl. 175-340.000.
Varela Fuentes, Manuel: *See—*
Ollero Pina, Juan Carlos; Gonzalez Centeno, Engracia; and Varela Fuentes, Manuel, 4,663,174, Cl. 426-282.000.
Varesio, Carlo: *See—*
Rosa, Onorino G.; Varesio, Carlo; and Oppici, Ernesto, 4,668,821, Cl. 562-443.000.
Varga, Andre; and Cripps, Henry, to Carding Specialists Ltd. Method and apparatus for handling a sliver. 4,700,538, 10-20-87, Cl. 57-90.000.
Varga, Bertalan: *See—*
Nyeki nee Kuprina, Olga; Kisfaludy, Lajos; Szeberenyi nee Szalay, Katalin; Makara, Gabor; Varga, Bertalan; Karpati, Egon; and Szporny, Laszlo , 4,672,054, Cl. 514-16.000.
Varga, Franz, to Rotorcafe AG. Machine with a centrifugal drum. 4,641,572, 2-10-87, Cl. 99-286.000.
Varga, Janos: *See—*
Simon, Ferenc; Romvary, Attila; Varga, Janos; Bozzay, Laszlo; and Bruckner nee Gabor, Edit, 4,650,790, Cl. 514-39.000.
Varga, Janos I.: *See—*
Rivier, Jean E. F.; Varga, Janos I.; Hagler, Arnold T.; Struthers, R. Scott; Perrin, Marilyn H.; Rivier, Catherine L.; and Vale, Wylie W., Jr., 4,661,472, Cl. 514-15.000.

Varga, Laszlo: *See*—
Berenyi nee Poldermann, Edit; Varga, Laszlo; Pallos, Laszlo; Petocz, Lujza; Ladanyi, Laszlo; Tompe, Peter; Hartai nee Zsorzs, Eva; and Kovacs nee Palotai, Agnes, 4,652,562, Cl. 514-237.000.

Varga, LeRoy M.; and Yermal, Michael F., to Rockaway Corporation. Wire bend machine. 4,640,321, 2-3-87, Cl. 140-93.00C.

Varga, Stephen I.: *See*—
Kornhaber, Harvey; Heidel, James P.; and Varga, Stephen I., 4,665,116, Cl. 524-268.000.

Varga, Valeria M.: *See*—
Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,661,477, Cl. 514-76.000.
Gorog nee Privitzer, Katalin; Bodnar, Laszlo; Dudar, Erzsebet; Kocsis nee Bagi, Maria; Gaal, Sandor; Tasnadi, Marta; Egyhazi nee Csizmadia, Eva; Varga, Valeria M.; Kajati, Istvan; Kis, Gyorgy; Molnar, Janos; Toth, Bertalan; Cserhati nee Botka, Ilona; Kaptas, Tibor; and Csete, Sandor, 4,675,431, Cl. 558-218.000.

Vargarda Armatur AB: *See*—
Riis, Voldemar, 4,708,172, Cl. 137-625.170.

Vargas, Alfredo P., to South American Placers, Inc. Process for the selective separation of base metal sulfides and oxides contained in an ore. 4,650,569, 3-17-87, Cl. 209-167.000.

Varghese, Philip; and Whitehurst, Darrell D., to Mobil Oil Corporation. Hydrocracking of heavy feeds plus light fractions with dispersed dual function catalyst. 4,659,454, 4-21-87, Cl. 208-111.000.

Varghese, Philip: *See*—
Fischer, Ronald H.; Huang, Yun-Yang; LaPierre, Rene B.; and Varghese, Philip, 4,676,887, Cl. 208-61.000.

Vargo, Edward E., to Central Machine and Tool Company. Quick disconnect coupling having spring safety interlock. 4,647,075, 3-3-87, Cl. 285-82.000.

Vargo, George F., Jr.: *See*—
Kirchner, Tommy L.; Vargo, George F., Jr.; and Cantrell, Steven C., 4,665,519, Cl. 370-94.000.

Vargo, Steve P. Kitty box. 4,649,576, 3-17-87, Cl. 4-449.000.

Vargus, Joel T.: *See*—
Weinerman, Lee S.; and Vargus, Joel T., 4,671,547, Cl. 292-197.000.
Weinerman, Lee S.; and Vargus, Joel T., 4,674,780, Cl. 292-336.300.
Weinerman, Lee S.; and Vargus, Joel T., 4,679,835, Cl. 292-197.000.
Weinerman, Lee S.; and Vargus, Joel T., 4,703,961, Cl. 292-216.000.

Vari-Lite, Inc.: *See*—
Bornhorst, James M., 4,701,833, Cl. 362-299.000.
Bornhorst, James M., 4,709,311, Cl. 362-277.000.
Covington, John H., 4,688,161, Cl. 363-37.000.

Vari-X: *See*—
Kitner, William M., 4,641,939, Cl. 354-313.000.

Variable Speech Control Company ("VSC"), The: *See*—
Leslie, George F., Jr.; and MacKay, Kent W., 4,700,391, Cl. 381-35.000.

Varian Associates, Inc.: *See*—
Ballou, Jon M., 4,671,204, Cl. 118-59.000.
Coad, George L.; Hutchinson, Martin A.; and Shaw, R. Howard, 4,647,266, Cl. 414-225.000.
Colin, Dennis P., 4,716,316, Cl. 307-492.000.
Cordts, Bernhard F., 4,714,641, Cl. 428-610.000.
Ferguson, Patrick E.; and Nordquist, Andrew L., 4,688,009, Cl. 333-252.000.
Freeman, Kenneth F.; Garrett, Charles B.; Harra, David J.; and Lei, Lawrence C., 4,714,536, Cl. 204-298.000.
Green, Michael C., 4,675,570, Cl. 313-346.00R.
Hertel, Richard J., 4,634,331, Cl. 414-217.000.
Hlavka, Lloyd F., 4,706,029, Cl. 324-321.000.
Hutchinson, Martin A., 4,715,764, Cl. 414-217.000.
Jacquez, Andrew E., 4,689,276, Cl. 428-594.000.
Lamont, Lawrence T., Jr., 4,673,480, Cl. 204-298.000.
Lamont, Lawrence T., Jr., 4,680,061, Cl. 148-1.500.
Layman, Frederick P.; Huntley, David A.; Dick, Paul H.; Coad, George L.; Kuhlman, Michael J.; Vecta, Roger M.; and Hobson, Phillip M., 4,705,951, Cl. 250-442.103.
Layman, Frederick P.; and Kuhlman, Michael J., 4,713,551, Cl. 250-561.000.
McIntyre, Raymond D.; and Brown, Karl L., 4,687,936, Cl. 250-397.000.
Messer, Mark G.; and Stark, Lawrence R., 4,670,126, Cl. 204-298.000.
Mintz, Donald M., 4,657,654, Cl. 204-298.000.
Mintz, Donald M., 4,661,228, Cl. 204-192.250.
Miram, George V.; and Treseder, Robert C., 4,675,573, Cl. 315-94.000.
Mobley, Richard M., 4,661,712, Cl. 250-492.200.
Powell, Ronald A., 4,661,177, Cl. 148-189.000.
Riaziat, Majid; and Zdasiuk, George A., 4,642,587, Cl. 333-125.000.
Scholl, Richard A., 4,633,717, Cl. 73-755.000.
Shaka, Athan J., 4,710,718, Cl. 324-309.000.
Stone, Stanley A., 4,713,974, Cl. 73-864.230.
Turner, Norman L.; and Pollock, John D., 4,680,474, Cl. 250-492.200.
Van Mastrigt, Max, 4,709,655, Cl. 118-719.000.
Wells, Gregory J., 4,651,008, Cl. 250-381.000.
Wells, Gregory J., 4,670,220, Cl. 422-103.000.
Wells, Gregory J., 4,682,027, Cl. 250-291.000.
Wells, Gregory J., 4,684,807, Cl. 250-381.000.
Wells, William D.; Robinson, David M.; DeLuca, Richard M.; and Burwen, Eric D., 4,698,509, Cl. 250-492.200.
Zens, Albert P., 4,654,592, Cl. 324-307.000.

Varian, Karl R.: *See*—
Halliford, Ben R.; and Varian, Karl R., 4,713,620, Cl. 328-150.000.

Varian S.p.A.: *See*—
Busso, Mario; and Pierini, Marco, 4,713,619, Cl. 324-460.000.

Variseal Manufacturing Corp.: *See*—
Volke, Robert W., 4,693,858, Cl. 264-101.000.

Varitronic Systems, Inc.: *See*—
McGourty, Thomas K.; and McGourty, Lawrence F., 4,683,820, Cl. 101-93.360.

Varker, Charles J.; Wilson, Syd R.; and Burnham, Marie E., to Motorola, Inc. Forming depthwise isolation by selective oxygen/nitrogen deep implant and reaction annealing. 4,683,637, 8-4-87, Cl. 437-63.000.

Varker, Charles J.: *See*—
Wilson, Syd R.; Gregory, Richard B.; and Varker, Charles J., 4,682,407, Cl. 29-576.00B.

Varker, Kenneth J., to International Business Machines Corporation. Method of manufacturing high density encapsulated wire circuit board. 4,662,963, 5-5-87, Cl. 156-176.000.

Varlet, Marc F. Latch assembly. 4,688,836, 8-25-87, Cl. 292-91.000.

Varlet, Marc F. Latch assembly. 4,707,004, 11-17-87, Cl. 292-91.000.

Varlet, Marc F. Latch assembly. 4,714,284, 12-22-87, Cl. 292-91.000.

Varley, Alan. Golf club with head weight control device. 4,715,606, 12-29-87, Cl. 273-194.00B.

Varma, Ravi, to United States of America, Energy. Electrode-active material for electrochemical batteries and method of preparation. 4,687,598, 8-18-87, Cl. 252-518.000.

Varma, Ravi K.; and Das, Jagabandhu, to E. R. Squibb & Sons, Inc. Hydroxamic acids of 7-oxabicycloheptane substituted ethers. 4,654,364, 3-31-87, Cl. 514-469.000.

Varma, Ravi K., and Das, Jagabandhu, to E. R. Squibb & Sons, Inc. Hydroxamic acids of 7-oxabicyclo[2.2.1]heptane substituted ethers useful as anti-thrombotic agents. 4,654,366, 3-31-87, Cl. 514-469.000.

Varma, Ravi K.; and Das, Jagabandhu, to E. R. Squibb & Sons, Inc. Hydroxamic acids of 7-oxabicycloheptane substituted ethers useful as anti-allergy and anti-inflammation agents. 4,654,367, 3-31-87, Cl. 514-469.000.

Varma, Ravi K.; Gordon, Eric M.; and Simpkins, Ligaya M., to E. R. Squibb & Sons, Inc. Hydroxamic acids of 7-oxabicycloheptane substituted ethers and thioethers useful in the treatment of inflammatory disease. 4,673,685, 6-16-87, Cl. 514-333.000.

Varma, Ravi K.; and Gordon, Eric M., to E. R. Squibb & Sons, Inc. 7-oxabicyclo(2.2.1)heptane analogs useful as inhibitors of 5-lipoxygenase and cyclooxygenase. 4,695,585, 9-22-87, Cl. 514-469.000.

Varma, Ravi K.; Chao, Sam T.; and Gordon, Eric M., to E. R. Squibb & Sons, Inc. 7-oxabicyclo(2.2.1)heptane-based derivatives useful as antiinflammatory, antiasthma and antipsoratic agents. 4,695,586, 9-22-87, Cl. 514-469.000.

Varma, Ravi K.; Ciosek, Carl P.; and Gordon, Eric M., to E. R. Squibb & Sons, Inc. 7-oxabicyclo(2.2.1)heptane compounds useful in the treatment of inflammation. 4,707,494, 11-17-87, Cl. 514-469.000.

Varma, Ravi K.; and Gordon, Eric M., to E. R. Squibb & Sons, Inc. Certain arylalkyl or pyridylalkyl hydroxamates useful for treating allergies and asthma. 4,711,900, 12-8-87, Cl. 514-351.000.

Varma, Ravi K.: *See*—
Gordon, Eric M.; and Varma, Ravi K., 4,672,075, Cl. 514-469.000.
Hall, Steven E.; Haslanger, Martin F.; and Varma, Ravi K., 4,661,506, Cl. 511-382.000.

Varma, Sanjeev K.: *See*—
Eastman, Richard E.; and Varma, Sanjeev K., 4,650,028, Cl. 80-233.000.

Varma, Vijaya K.; Winans, Esther D.; O'Halloran, Rosemary; and Brewster, Phillip W., to Exxon Chemical Patents Inc. Multifunctional viscosity index improver. 4,693,838, 9-15-87, Cl. 252-51.50R.

Varmo, Kjell O., to A/S Raufoss Ammunisjonsfabrikker. Smoke grenade. 4,700,628, 10-20-87, Cl. 102-33.400.

Varnagy, Stephen, to Consolidated Controls Corporation. Pressure calibration systems and control valve assemblies. 4,698,998, 10-13-87, Cl. 73-4.00R.

Varnai, Istvan: *See*—
Kardos, Peter; Kalman, Tibor; Kerti, Jozsef; and Varnai, Istvan, 4,689,165, Cl. 252-75.000.

Varnelis, Edmund K.: *See*—
Siewert, Robert L.; and Varnelis, Edmund K., 4,635,497, Cl. 74-473.0SW.

Varnell, Daniel F.: *See*—
Fifield, Charles C.; Mayes, Richard T.; Tate, Marilyn; and Varnell, Daniel F., 4,686,171, Cl. 430-273.000.

Varnell, Gilbert L.: *See*—
Shu Jing S.; Covington, Johnny B.; Lee, Wei; Venable, Larry G.; and Varnell, Gilbert L., 4,657,844, Cl. 430-325.000.

Varnell, William D.; and Newton, Thomas D., to Allied Corporation. Homogeneous thermoset copolymer from poly (vinyl benzyl ether) and dicyanate ester. 4,665,154, 5-12-87, Cl. 528-205.000.

Varney, Frederick M.: *See*—
Varney, J. Arnold; and Varney, Frederick M., 4,637,376, Cl. 126-451.000.

Varney, J. Arnold; and Varney, Frederick M. High efficiency solar heater. 4,637,376, 1-20-87, Cl. 126-451.000.

Varnon, James W. Hood or cover used to eradicate fire ants. 4,640,044, 2-3-87, Cl. 43-132.100.

Varnum, Gerald F.; and Duke, Christopher C., to Fisher Controls International, Inc. Pressure sensor. 4,691,573, 9-8-87, Cl. 73-702.000.

Varo, Inc.: *See*—
Hart, Richard T., 4,670,912, Cl. 2-209.100.
Hendricks, Terry J., 4,687,879, Cl. 136-212.000.
Kastendieck, William A.; and Broyles, Thomas E., 4,672,194, Cl. 250-213.0VT.
Kastendieck, William A.; Hart, Richard T.; and Isbell, Wayne, 4,697,783, Cl. 248-900.000.
Kastendieck, William A.; and Puckett, Steve D., 4,698,857, Cl. 2-476.000.
Kastendieck, William A.; and Hart, Richard T., 4,703,879, Cl. 224-181.000.

Varon, Jacques J.; Martin, Marie-Josephe; and Mahieu, Marc, to U.S. Philips Corporation. Semiconductor device having an electroluminescent diode. 4,646,116, 2-24-87, Cl. 357-17.000.

Varouxis, Theodore A.: *See*—
Carey, John S., Jr.; Jung, Wolfgang; and Varouxis, Theodore A., 4,667,354, Cl. 5-72.000.

Varsanik, Richard G.: *See*—
Cha, Charles Y.; and Varsanik, Richard G., 4,680,135, Cl. 252-180.000.
Gill, Jasbir S.; and Varsanik, Richard G., 4,668,474, Cl. 422-14.000.

Varshney, Ramesh C., to Inova Microelectronics Corporation. Wafer level integration technique. 4,703,436, 10-27-87, Cl. 364-490.000.

Varta Batterie Aktiengesellschaft: *See*—
Bechtold, Dieter; and Eckardt, Rudolf, 4,666,800, Cl. 429-175.000.
Brenner, Rolf; Jose, Horst-Waldo; Jung, Gerd; and Koder, Robert, 4,650,680, Cl. 429-129.000.
Buder, Eckart; Metz, Hans-Ulrich; and Uebereueter, Dieter, 4,678,726, Cl. 429-88.000.
Glemser, Oskar; Buss, Dieter H.; and Bauer, Jurgen, 4,696,875, Cl. 429-206.000.
Glotzl, Karl; Knabenbauer, Wolfgang; Sprengel, Dietrich; and Tepel, Rudolf, 4,643,959, Cl. 429-222.000.
Gummelt, Klaus; Schulz, Jurgen; Saiamon, Klaus; and Rabenstein, Heinrich, 4,642,600, Cl. 338-34.000.
von Alpen, Ulrich, 4,713,305, Cl. 429-194.000.
Woidt, Jurgen; and Fries, Wolfgang, 4,713,126, Cl. 148-6.14R.

Vartan, Henri. Collapsible laundry press. 4,689,905, 9-1-87, Cl. 38-26.000.

Vartanian, Albert V.: *See*—
Afian, Viktor V.; Vartanian, Albert V.; Martirosian, Ruben G.; Strebkov, Dmitry S.; and Ryabikov, Stanislav V., 4,682,841, Cl. 350-3.700.
Afian, Viktor V.; Vartanian, Albert V.; Martirosian, Ruben G.; Ryabikov, Stanislav V.; Strebkov, Dmitry S.; and Tveryanovich, Eduard V., 4,691,994, Cl. 350-320.000.

Vartanian, Thomas V.: *See*—
Marich, John J.; and Vartanian, Thomas V., 4,657,449, Cl. 409-143.000.

Varterasian, John H.; and Blaser, Dwight A., to General Motors Corporation. Acoustical inspection method for inspecting the ceramic coating of catalytic converter monolith substrates. 4,653,327, 3-31-87, Cl. 73-579.000.

Varteresian, Michael G.; and Steele, S. Robert, to Raytheon Company. Semiconductor structures and manufacturing methods. 4,661,834, 4-28-87, Cl. 357-56.000.

Vartoughian, Victor. Applicator bottle with sealing cap. 4,710,048, 12-1-87, Cl. 401-269.000.

Vartuli, James C.: *See*—
Chu, Yung-Feng; and Vartuli, James C., 4,694,114, Cl. 585-481.000.

Varvaro, Charles: *See*—
Falkman, Richard J.; and Varvaro, Charles, 4,677,430, Cl. 340-723.000.

Varwig, Juergen: *See*—
Hamprecht, Gerhard; Rohr, Wolfgang; and Varwig, Juergen, 4,673,740, Cl. 544-92.000.
Hamprecht, Gerhard; Varwig, Juergen; and Rohr, Wolfgang, 4,680,412, Cl. 548-480.000.

Vary, Peter: *See*—
Selbach, Bernd; and Vary, Peter, 4,682,361, Cl. 381-46.000.
Selbach, Bernd; and Vary, Peter, 4,700,394, Cl. 381-46.000.

Vas-Cath of Canada Limited: *See*—
Martin, Geoffrey S., 4,682,978, Cl. 604-43.000.

Vasa, Jiri, to Queen's University at Kingston. All terrain wheelchair. 4,666,170, 5-19-87, Cl. 280-47.190.

Vasavanonda, Sudthichard: *See*—
Kiteley, Terence J.; and Vasavanonda, Sudthichard, 4,645,987, Cl. 315-389.000.

Vasco, Ltd.: *See*—
Young, Clinton J. T., 4,663,871, Cl. 40-454.000.

Vasconcellos, Stephen R.; Najjar, Mitri S.; and Pascoe, James R., to Texaco Inc. Partial oxidation of petroleum coke. 4,657,702, 4-14-87, Cl. 252-373.000.

Vasconcellos, Stephen R.; Najjar, Mitri S.; and Garcia, Ralph, to Texaco Inc. Partial oxidation of upgraded petroleum coke. 4,681,700, 7-21-87, Cl. 252-373.000.

Vasconcellos, Stephen R.; Najjar, Mitri S.; and McKeon, Ronald J., to Texaco Inc. Reduction of vanadium in recycle petroleum coke. 4,708,819, 11-24-87, Cl. 252-373.000.

Vasella, Marco: *See*—
Ziehbrunner, Heini, 4,646,502, Cl. 52-580.000.

Vaser, Inc.: *See*—
Leckrone, Michael E., 4,685,458, Cl. 128-303.100.

Vashi, Dhiru B.; Clark, Jeffrey N.; and Lindo, Neil A., to Schering Corporation. N-((2-nitro)phenyl)-N' (organic acid) guanidine anthelmintics. 4,701,447, 10-20-87, Cl. 514-85.000.

Vasile, Anthony J. Square level measuring tool. 4,700,489, 10-20-87, Cl. 33-342.000.

Vasile, Carmine F., to Hazeltine Corporation. Multifunction floating FET circuit. 4,705,967, 11-10-87, Cl. 307-304.000.

Vasiliev, Evgeny G.: *See*—
Alexandrov, Adolf M.; Vasiliev, Evgeny G.; Iskanderov, Alexandr A.; Magdenko, Vladimir S.; Melikov, Semen G.; Avsharov, Eduard R.; Tsimbler, Jury A.; and Presnyakov, Vladimir I., 4,711,182, Cl. 104-283.000.

Vasiliev, Vsevolod V.; Danilyak, Sergei N.; Levina, Anna I.; Nushko, Valery A.; and Roiko, Jury P., to Institut Problem Modelirovaniya v Energetike Akademii Nauk Ukrainskoi SSR. Spark trainer for welders. 4,689,021, 8-25-87, Cl. 434-234.000.

Vasiliev, Vsevolod V.: *See*—
Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Baranov, Alexandr I.; Danilyak, Sergei N.; Schegolev, Viktor A.; Chernovanov, Vladimir A.; Voloshin, Vitaly I.; Gavva, Viktor M.; and Bernadsky, Vsevolod N., 4,680,014, Cl. 434-234.000.
Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Danilyak, Sergei N.; Gavva, Viktor M.; Roiko, Jury P.; and Nushko, Valery A., 4,716,273, Cl. 219-130.010.

Vasilieva, Natalia V.: *See*—
Kinderov, Petr A.; Volkov, Nikolai S.; Vasilieva, Natalia V.; and Malashkina, Regina T., 4,702,860, Cl. 252-511.000.

Vaspari Kutato es Fejleszto Vallalat: *See*—
Tarnai, Gyorgy, 4,704,892, Cl. 73-1.0DV.

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Vasko, Tanya S.; and Vasko, Kent A., 4,683,709, Cl. 54-66.000.

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Valls, Jose E., 4,637,618, Cl. 277-152.000.
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Vasudevan, Asuri K. *See*—
Bretz, Philip E.; Petit, Jocelyn I.; Sawtell, Ralph R.; and Vasudevan, Asuri K., 4,693,747, Cl. 75-249.000.

Vasvari nee Debreczy, Lelle. *See*—
Meszaros, Zoltan; Knoll, Jozsef; Hermecz, Istvan; Szentmiklosi, Peter; Horvath, Agnes; Vasvari nee Debreczy, Lelle; Kovacs, Gabor; Gyires, Klara; and Virag, Sandor, 4,666,912, Cl. 514-258.000.
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Vataru, Marcel; and Schenach, Thomas A., to Wynn Oil Company. Gasoline additive composition. 4,684,373, 8-4-87, Cl. 44-63.000.

Vataru, Marcel, to Wynn Oil Company. Bottle cap with seal cutter in top recess. 4,709,822, 12-1-87, Cl. 215-216.000.

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Vatter, Waldemar, to ITT Industries, Inc. Supply tank. 4,665,702, 5-19-87, Cl. 60-592.000.

Vatter, Waldemar; and Exner, Franz, to ITT Industries, Inc. Hydraulic braking and steering brake system. 4,702,330, 10-27-87, Cl. 180-6.200.

Vatter, William K. *See*—
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Vatzov, Vassil N.; Savov, Krestyo T.; and Stanev, Stefan G., to NPSK PO Poluprovodnikova Technika. Apparatus for coordinate positioning. 4,672,859, 6-16-87, Cl. 74-479.000.

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Vaughan, Daniel J. Electrodialytic conversion of multivalent metal salts. 4,636,288, 1-13-87, Cl. 204-182.400.

Vaughan, Daniel J. Electrochemical restoration of cyanide solutions. 4,652,351, 3-24-87, Cl. 204-105.00R.

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Vaughan, Frizell L. *See*—
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Vaughan, Hugh R. Auger assembly moving device. 4,650,058, 3-17-87, Cl. 198-304.000.

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Vaughan, Joseph D. *See*—
Claeys, Richard J.; Denny, Ronald R.; Vaughan, Joseph D.; and Eumurian, Charles, 4,708,660, Cl. 439-65.000.

Vaughan, Thomas L. Hanger assembly. 4,695,025, 9-22-87, Cl. 248-293.000.

Vaughan, Thomas L. Support assembly. 4,699,344, 10-13-87, Cl. 248-170.000.

Vaughn, Charles G., Jr. *See*—
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Vaughn, Charles R. Guy-wire guard assembly and fastening systems therefor. 4,638,611, 1-27-87, Cl. 52-147.000.

Vaughn, Edward A. *See*—
Farley, Radcliffe W.; Vaughn, Edward A.; Rodman, Clarke A.; and Homonoff, Edward C., 4,663,225, Cl. 428-290.000.

Vaughn, Eldon D. Adaptive defrost control and method. 4,680,940, 7-21-87, Cl. 62-155.000.

Vaughn, Eldon D., to Spectrol Electronics Corporation. Adaptive defrost control and method. 4,694,657, 9-22-87, Cl. 62-80.000.

Vaughn, Herchel A., to Motorola, Inc. Multifunction analog-to-digital successive approximation register. 4,688,018, 8-18-87, Cl. 340-347.0AD.

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Vaughn, Lanny. Safety bumper and air brake actuator. 4,641,871, 2-10-87, Cl. 293-118.000.

Vaughn, Lawrence E., to General Signal Corporation. Fluid pressure brake control portion. 4,714,297, 12-22-87, Cl. 303-33.000.

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Vaughn, Millard A. Pipe alignment apparatus. 4,685,662, 8-11-87, Cl. 269-43.000.

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Vaughn, Steven T., to General Electric Company. Storage of digitized video images on disk. 4,628,381, 1-20-87, Cl. 360-51.000.

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Vaughn, Walter L.; and Wing, Milton S., to Dow Chemical Company, The. Removal of impurities from amines. 4,661,634, 4-28-87, Cl. 564-292.000.

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Vauss, Elvin M., Jr.; and Niksa, Andrew J., to Eltech Systems Corporation. Electrochemical cell having reticulated electrical connector. 4,657,650, 4-14-87, Cl. 204-242.000.

Vautier, Remi A., to International Business Machines Corporation. Programmable logic controller. 4,675,843, 6-23-87, Cl. 364-900.000.

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Vavra, Randall J.; and Doyle, Michael J. Mass flow meter. 4,686,856, 8-18-87, Cl. 73-204.000.

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Vawter, James R. Problem solving game. 4,695,257, 9-22-87, Cl. 434-233.000.

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Vayko, Don. Ladder-leveling device. 4,683,980, 8-4-87, Cl. 182-108.000.

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Stanford, Raymond A., 4,673,415, Cl. 55-21.000.

VCF Films Inc. Div. of PMC: *See*—
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Veazey, Richard L.; and Bledsoe, James O., Jr., to Union Camp Corporation. Adhesive compositions. 4,650,822, 3-17-87, Cl. 524-376.000.

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VEB Jenaer Glaswerk: *See*—
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VEB Kombinat Feinmechanische Werke Halle: *See*—
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VEB Kombinat Fortschritt Landmaschinen: *See*—
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Naumann, Reinhard, 4,640,503, Cl. 271-103.000.
Schuck, Helmut; Foerster, Karl-Heinz; Kuehn, Monika; and Schanze, Klaus, 4,701,757, Cl. 340-825.060.
Weigend, Helmut; Morgenstern, Bernd; and Reinhardt, Peter, 4,712,918, Cl. 356-429.000.

VEB Kombinat Textima: *See*—
Glaser, Dieter; and Klemm, Theobald, 4,691,450, Cl. 34-23.000.
Grenzendoerfer, Dietmar; Wierzgon, Achim; Mueller, Gerhard; Erth, Dieter; Guenther, Ludwig; and Kuenzel, Rolf, 4,638,647, Cl. 66-84.00A.
Grussel, Klaus; and Neuer, Andreas, 4,693,093, Cl. 66-75.100.
Hellwig, Claus; Hempel, Ernst-Heinrich; Kunath, Peter; and Rinckleb, Ulf, 4,649,720, Cl. 66-75.200.
Markel, Kurt; and Berger, Werner, 4,689,187, Cl. 264-40.500.
Muller, Hartwig; Hellwig, Claus; and Beyer, Dietmar, 4,697,438, Cl. 66-75.200.
Neuer, Andreas; Grimmer, Eberhard; and Muller, Hartwig, 4,648,249, Cl. 66-75.200.
Satzger, Viktor; Guhr, Volker; and Laux, Gerhard, 4,698,957, Cl. 57-96.000.

VEB Kombinat Walzlager und Normteile: *See*—
Ascheron, Eberhard; Kuhnlenz, Konrad; Oetzel, Dieter; and Woschek, Dietrich, 4,664,537, Cl. 384-470.000.

Bartko, Kristine; Gabler, Dieter; Heinrich, Peter; Luckner, Joachim; and Schlenkrich, Bernd, 4,672,833, Cl. 72-111.000.
Veb Leipziger Arzneimittelwerk: *See*—
Dautzenberg, Horst; Loth, Fritz; Borrmeister, Bodo; Bertram, Dieter; Lettau, Herbert; Stamberg, Jiri; and Peska, Jan, 4,664,105, Cl. 128-156.000.
VEB "Otto-Buchwitz" Starkstrom-Anlagebau Dresden: *See*—
Bohme, Helmut; Lobl, Helmut; and Grossmann, Steffen, 4,696,531, Cl. 439-851.000.
VEB Rohrkombinat, Stahl und Walzwerk, Riesa: *See*—
Reutler, Harald; Loser, Wolfgang; Muhlbach, Heinz; Richter, Gerhard; and Stephani, Gunter, 4,660,622, Cl. 164-463.000.
VEB Schwermaschinenbau "Karl Liebknecht" Magdeburg: *See*—
Michel, Wolfgang; Paul, Heinz; Kostler, Dieter; Wilhelm, Frank; Rummel, Andreas; Seher, Gero; Henze, Wilfried; Hander, Ralf; Heinemann, Jurgen; and Ossowski, Manfred, 4,652,430, Cl. 422-142.000.
VEB Schwermaschinenbau-Kombinat "Ernst Thalman" Magdeburg: *See*—
Krennbauer, Franz; and Fehringer, Friedrich, 4,685,970, Cl. 106-100.000.
VEB Schwermaschinenbaukombinat TAKRAF: *See*—
Ostermeyer, Heinz-Jurgen; and Zschauer, Wolfgang, 4,699,560, Cl. 414-696.000.
Veb Waschgeratewerk Schwarzenberg: *See*—
Fait, Martin; Gunther, Thomas; Janetz, Peter; Moritz, Werner; Muller, Lothar; and Wellner, Hans, 4,699,806, Cl. 427-126.100.
VEB Werk fur Fernsehelektronik im VEB Kombinat Mikroelektronik: *See*—
Demus, Dietrich; Zaschke, Horst; Paschke, Reinhard; and Wiegeleben, Adalbert, 4,668,426, Cl. 252-299.610.
VEB Zementkombinat: *See*—
Gessner, Dieter; and Steckert, Rainer, 4,693,913, Cl. 427-215.000.
Veba Oel AG: *See*—
Gottlieb, Klaus; Graf, Wilfried; and Schadlich, Heinz-Kuno, 4,704,497, Cl. 585-654.000.
Wolfrum, Jurgen; Warnatz, Jurgen; Bruderreck, Hartmut; Gottlieb, Klaus; and Preuss, August-Wilhelm, 4,664,904, Cl. 423-648.00R.
Veba Oel Entwicklungs-Gesellschaft mbH: *See*—
Dohler, Werner; Merz, Ludwig; Frohnert, Heinz; Uckermann, Bernd; Graeser, Ulrich; Jankowski, Alfons; Wolowski, Eckard; Tamm, Hans-Friedrich; and Wilczok, Norbert, 4,639,310, Cl. 208-412.000.
Klein, Wolf-Dieter; Feuchthofen, Alfons; Strecker, Claus; and Bonisch, Ulrich, 4,666,589, Cl. 208-413.000.
Wenning, Hans-Peter; Friedrich, Joachim; and Pontow, Bernd, 4,666,397, Cl. 431-160.000.
Veber, Daniel F.; and Baldwin, John J., to Merck & Co., Inc. Ace inhibitors in macular degeneration. 4,656,188, 4-7-87, Cl. 514-423.000.
Veber, Daniel F.; and Freidinger, Roger M., to Merck & Co., Inc. Novel cyclic Hexapeptide LHRH antagonists. 4,659,691, 4-21-87, Cl. 514-11.000.
Veber, Daniel F.; and Freidinger, Roger, to Merck & Co., Inc. Analogs of substance P and eledoisin. 4,680,283, 7-14-87, Cl. 514-17.000.
Veber, Daniel F.: *See*—
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Boger, Joshua S.; Veber, Daniel F.; and Evans, Ben E., 4,668,770, Cl. 530-331.000.
VECA S.r.l.: *See*—
Giuliani, Giovanni, 4,681,138, Cl. 137-516.290.
Vecchietti, Vittorio: *See*—
Casagrande, Cesare; Mussini, Emilio; and Vecchietti, Vittorio, 4,644,004, Cl. 514-332.000.
Ferrari, Giorgio; and Vecchietti, Vittorio, 4,683,245, Cl. 514-652.000.
Vecchiolino, Alvise P. G.: *See*—
Villa, Carlo; Vecchiolino, Alvise P. G.; and Mangia, Alberto, 4,675,196, Cl. 426-271.000.
Vecellio, Bernardino: *See*—
Lanfranconi, Gianmario; and Vecellio, Bernardino, 4,642,415, Cl. 174-22.00R.
Vecta Glass Company Ltd.: *See*—
Stevanato, Giovanni, 4,713,062, Cl. 604-203.000.
Vecta, Roger M.: *See*—
Layman, Frederick P.; Huntley, David A.; Dick, Paul H.; Coad, George L.; Kuhlman, Michael J.; Vecta, Roger M.; and Hobson, Phillip M., 4,705,951, Cl. 250-442.100.
Vector Laboratories, Inc.: *See*—
Hsu, Su-Ming; and Raine, Laurence, 4,684,609, Cl. 435-7.000.
Vector Magnetics, Inc.: *See*—
Kuckes, Arthur F., 4,700,142, Cl. 324-346.000.
Vedage, Gamini A.: *See*—
Khier, Kamil; Herman, Richard G.; and Vedage, Gamini A., 4,642,381, Cl. 564-480.000.
Vedda, Louis: *See*—
Larrecq, Michel; and Vedda, Louis, 4,671,340, Cl. 164-429.000.
Vedlin, Boris: *See*—
Trost, Stojan; Vedlin, Boris; and Kazic, Marko, 4,672,616, Cl. 372-19.000.
Veech, Richard L. Electrolyte solutions containing polyanionic materials. 4,649,050, 3-10-87, Cl. 424-153.000.
Veech, Richard L. Electrolyte solutions and in vivo use thereof. 4,663,166, 5-5-87, Cl. 424-146.000.
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Veech, Richard L. Hemodialysis processes and hemodialysis solutions. 4,668,400, 5-26-87, Cl. 210-647.000.
Veeco Instruments, Inc.: *See*—
Gautherin, George A.; and Greenberg, Sol, 4,675,796, Cl. 363-20.000.
Veeco Integrated Automation, Inc.: *See*—
Harper, James G.; and Bailey, Louis G., 4,636,634, Cl. 250-223.00R.
Harper, James G.; Bailey, Louis G.; McJohnson, Robert B.; Rajagopal, Ganesh; and Walker, Don R., 4,680,811, Cl. 455-617.000.
McJohnson, Robert B.; Currin, Adrian B.; and Nelson, Robert R., 4,644,143, Cl. 235-462.000.
Veeder Industries Inc.: *See*—
Fleischer, Donald W., 4,697,278, Cl. 377-24.000.
Veendrick, Hendrikus J. M.; Van Zanten, Adrianus T.; and Pfennings, Leonardus C. M. G., to U.S. Philips Corporation. Integrated circuit having reduced clock cross-talk. 4,707,844, 11-17-87, Cl. 377-58.000.
Veendrick, Hendrikus J. M.: *See*—
Van Zanten, Adrianus T.; Veendrick, Hendrikus J. M.; Pfennings, Leonardus C. M. G.; and Gubbels, Wilhelmus C. H., 4,697,111, Cl. 307-482.000.
Veenendaal, Cornelis T., to Tektronix, Inc. Piezoelectric pressure sensing apparatus for integrated circuit testing stations. 4,673,839, 6-16-87, Cl. 310-338.000.
Veenhof, Willem D. Belt scraping devices accommodating a reversing condition. 4,662,507, 5-5-87, Cl. 198-499.000.
Veenhof, Willem D. Scraper strands for conveyor belt cleaners. 4,703,845, 11-3-87, Cl. 198-499.000.
Veenhuizen, Edward L.: *See*—
Anderson, David B.; Schmiegel, Klaus K.; and Veenhuizen, Edward L., 4,690,951, Cl. 514-653.000.
Veenman, Simon J. M. Stackable box. 4,711,355, 12-8-87, Cl. 206-503.000.
Veenstra, Kerry S., to Altera Corporation. Programmable logic storage element for programmable logic devices. 4,677,318, 6-30-87, Cl. 307-465.000.
Veenstra, Mient: *See*—
Dijkstra, Arend; Haijkens, Bernardus; and Veenstra, Mient, 4,691,134, Cl. 310-234.000.
Vees, Frederick; and Carrington, Larry, to Knytex, Inc. Structural fiber pre-forms and method of making. 4,664,961, 5-12-87, Cl. 428-102.000.
Vees, Frederick; and Drummond, Todd, to Xerkon Company. Curved, uniformly biased structural fiber forms. 4,681,049, 7-21-87, Cl. 112-262.300.
VEG-Gasinstituut N.V.: *See*—
Mesters, Carolus M. A. M.; Geus, John W.; Kuijpers, Eugene G. M.; and Gijzeman, Onno L. J., 4,657,888, Cl. 502-331.000.
Mesters, Carolus M. A. M.; Geus, John W.; and Kuijpers, Eugene G. M., 4,711,773, Cl. 423-655.000.
Vega, Jean F.; and Morand, Philippe C., to Etat Francais. Castable smoke-generating compounds effective against infrared. 4,698,108, 10-6-87, Cl. 149-21.000.
Vega Precision Laboratories, Inc.: *See*—
Russell, Ray E., Jr.; and Hayworth, Robert G., 4,668,950, Cl. 340-825.650.
Vegge, Olaf T., to Elkem a/s. Device for cutting an electrode casing. 4,663,844, 5-12-87, Cl. 30-100.000.
Vegge, Olaf T.: *See*—
Dahl, Erik Q.; Vatland, Arnfinn; and Vegge, Olaf T., 4,678,434, Cl. 432-242.000.
Vegh, Garbriel B.: *See*—
Daniels, John R.; Engelson, Erik T.; and Vegh, Gabriel B., 4,655,746, Cl. 604-53.000.
Vegh nee Ba, Ilona: *See*—
Kaldor, Istvan; Szasz, Andras; Vegh nee Ba, Ilona; Hetzer, Jozsef; and Bebedek nee Haraszin, Eva, 4,656,290, Cl. 548-306.000.
Vegla Vereinigte Glaswerke GmbH: *See*—
Kunert, Heinz; and Jbach, Hermann-Wolf, 4,684,571, Cl. 428-314.800.
Veglia: *See*—
Draeger, Erich, 4,679,432, Cl. 73-295.000.
Veglia, Bartolomeo, to RIV-SKF Officine di Villar Perosa S.p.A. Transmission unit for a vehicle with a transverse engine and half-shafts of equal length, having an intermediate shaft provided with a resilient support. 4,648,475, 3-10-87, Cl. 180-297.000.
Vehasinkaya, Amida Sinun: *See*—
Orlans, Itzhak, 4,690,761, Cl. 210-330.000.
Vehicle Research Corporation: *See*—
Rethorst, Scott, 4,699,340, Cl. 244-199.000.
Vehlewald, Peter: *See*—
Dietrich, Manfred; Konig, Klaus; Heitel, Hans; Seifert, Peter; and Vehlewald, Peter, 4,668,734, Cl. 524-714.000.
Vehling, Ernst, to Neumunstersche Maschinen-und Apparatebau GmbH (Neumag). Device for depositing cables. 4,669,676, 6-2-87, Cl. 242-47.000.
Vehr, James W., to United Technologies Corporation. Cross-flow film cooling passages. 4,653,983, 3-31-87, Cl. 416-97.00R.
Veillard, Jacques, to Centre National d'Etudes des Telecommunications; and Etablissement Public de Diffusion dit "Telediffusion de France". Frequency demodulator for televiston receiver with time multiplexing. 4,713,689, 12-15-87, Cl. 358-146.000.
Veillas, Paul. Apparatus for simulating the different paces of a horse and the aids to be applied for controlling the horse. 4,713,010, 12-15-87, Cl. 434-247.000.

Veillette, Gaston; and Giroux, Claude. Automatic flood control valve. 4,659,063, 4-21-87, Cl. 251-68.000.

Veit, Ernst-Ludwig; and Klee, Jurgen, to U.S. Philips Corporation. Method of soldering the outer sleeve of a coaxial cable connector to a housing. 4,679,723, 7-14-87, Cl. 228-168.000.

Veit GmbH & Co.: *See*—
Schonenberger, Rolf, 4,704,969, Cl. 105-148.000.

Veit, Kurt: *See*—
Oexler, Rudolf; and Veit, Kurt, 4,653,266, Cl. 57-407.000.

Veit, Wolfgang: *See*—
Spitznas, Manfred; Reiner, Josef; Veit, Wolfgang; and Kirchhuebel, Rainer, 4,710,000, Cl. 350-516.000.

Veitch, Randall C., to Qualitronics Corporation. Thermal profile system. 4,690,569, 9-1-87, Cl. 374-11.000.

Veitch, Simon J. Vision system. 4,688,090, 8-18-87, Cl. 358-108.000.

Veith, Gotz U.: *See*—
Veith, Gustav G.; and Veith, Gotz U., 4,709,870, Cl. 242-68.000.

Veith, Gustav: *See*—
Gobel, Ernst O.; Kuhl, Jurgen; and Veith, Gustav, 4,635,264, Cl. 372-18.000.

Veith, Gustav G.; and Veith, Gotz U., to Gustav Georg Veith GmbH & Co. Device for replaceably suspending the winding shaft of a bale of cloth. 4,709,870, 12-1-87, Cl. 242-68.000.

Veith, Richard: *See*—
Ehrmann-Falkenau, Ekkehard; Veith, Richard; and Till, Wolfgang, 4,673,901, Cl. 333-196.000.
Zibis, Peter; Riha, Gerd; and Veith, Richard, 4,672,339, Cl. 333-194.000.
Zibis, Peter; and Veith, Richard, 4,703,290, Cl. 333-195.000.

Veith, Ronald D.: *See*—
Persson, Eric G.; and Veith, Ronald D., 4,639,845, Cl. 363-26.000.

Veitscher Magnesitwerke-Actien-Gesellschaft: *See*—
Triessnig, Alois, 4,651,810, Cl. 165-9.200.

Velasco Scale Company: *See*—
Reeves, Robert H., Jr.; Green, Donald H.; Birdwell, Jimmy A.; and Jorgensen, Henry A., 4,703,780, Cl. 141-1.000.

Velasco, Vicente S. Device to obtain ring-shaped cavities in the bottom of drilled holes made in any type of medium. 4,700,789, 10-20-87, Cl. 175-202.000.

Velasquez, Jose R.: *See*—
Martinez, Nelson P.; Galiasso, Roberto E.; Velasquez, Jose R.; Lujano, Juan; and Zerpa, Carlos, 4,689,314, Cl. 502-210.000.

Velazquez, Christopher S.: *See*—
Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., 4,665,133, Cl. 525-326.700.
Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., 4,699,952, Cl. 525-326.700.
Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., 4,699,953, Cl. 525-356.000.
Sandman, Daniel J.; Elman, Boris S.; and Velazquez, Christopher S., 4,699,954, Cl. 525-374.000.

Velbeck, Kenneth: *See*—
Tawil, Riad A.; and Velbeck, Kenneth, 4,677,300, Cl. 250-366.000.

Veldkamp, Wilfrid B.; Leger, James R.; and Swanson, Gary J., to Massachusetts Institute of Technology. Apparatus and method for coherently adding laser beams. 4,649,351, 3-10-87, Cl. 330-4.300.

Velencei, John. Internal combustion engine (JV-1). 4,682,570, 7-28-87, Cl. 123-73.0PP.

Velencei, John. Two-piston internal combustion engine (JV-2). 4,683,845, 8-4-87, Cl. 123-73.0PP.

Velenyi, Louis J.; and Dolhyj, Serge R., to Standard Oil Company, The. Preparation of aliphatic carboxylic acids and aldehydes by upgrading alpha-hydroxycarboxylic acids. 4,663,479, 5-5-87, Cl. 562-525.000.

Velenyi, Louis J.; and Mazanec, Terry J., to Standard Oil Company, The. Process for the conversion of alcohols to gaseous products. 4,676,972, 6-30-87, Cl. 423-648.00R.

Velenyi, Louis J.; Pesa, Frederick A.; and Paparizos, Christos, to Standard Oil Company, The. Production of synthesis gas. 4,690,777, 9-1-87, Cl. 252-373.000.

Velenyi, Louis J.; and Krupa, Andrew S., to Standard Oil Company, The. Process for the production of hydrogen. 4,690,814, 9-1-87, Cl. 423-648.00R.

Velenyi, Louis J., to Standard Oil Company, The. Molybdenum-tungsten-containing catalyst and methane conversion process using same. 4,695,668, 9-22-87, Cl. 585-500.000.

Velev, Alexander S.: *See*—
Hadjiiski, Anatoli M.; Varbanov, Hristo P.; Mishonov, Michail T.; Stamov, Vladimir P.; Savov, Rosen P.; Radenkov, Strahil K.; Panev, Vladimir B.; and Velev, Alexander S., 4,638,607, Cl. 52-79.900.

Velev, Velyo T.: *See*—
Bakalov, Nikolay G.; Penev, Penyo I.; Ivanov, Ivan K.; Velev, Velyo T.; Savov, Peter H.; and Vulchev, Alexander Y., 4,703,493, Cl. 373-95.000.

Velic, Milan: *See*—
Lehner, August; Kohl, Albert; Balz, Werner; Sommermann, Friedrich; Velic, Milan; Grau, Werner; and Baur, Reinhold, 4,647,513, Cl. 428-694.000.

Velicelebi, Gonul: *See*—
Kaiser, Emil T.; and Velicelebi, Gonul, 4,689,318, Cl. 514-12.000.

Velidzhanian, Sofia V.: *See*—
Mkhikian, Robert M.; Shaginian, Suren G.; Markarian, Temur G.; Khaidukov, Georgy K.; Velidzhanian, Sofia V.; Manukian, Artashes R.; Karapetian, Artur K.; Kazarian, Aram V.; and Airapetian, Robert R., 4,708,628, Cl. 425-406.000.

Velie, Wally W., to Scheu Manufacturing Company. Forced air heater. 4,651,711, 3-24-87, Cl. 126-110.00C.

Velie, Wally W., to Mallard Products, Incorporated. Releasable separate member latching device for a portable hand tool. 4,693,008, 9-15-87, Cl. 30-390.000.

Veligdan, James T.: *See*—
Feichtner, John D.; and Veligdan, James T., 4,668,538, Cl. 427-248.100.

Velisavljevic, Dobrila. High pressure fitting. 4,711,475, 12-8-87, Cl. 285-348.000.

Vella, Claude J.; and Mansell, Raymond T. Golf putting trainer. 4,634,131, 1-6-87, Cl. 273-192.000.

Vella, John, Jr.: *See*—
Kudert, Frederick G.; Latreille, Maurice G.; McHenry, Robert J.; Nahill, George F.; Pfutzenreuter, Henry, III; Tennant, William A.; Tung, Thomas T.; and Vella, John, Jr., 4,712,990, Cl. 425-130.000.

Vella, Paul J.: *See*—
So, Vincent C.; Hughes, Richard P.; Vella, Paul J.; Huszarik, Fred A.; and Mariani, Renato, 4,671,653, Cl. 356-73.100.
So, Vincent C.; Hughes, Richard P.; and Vella, Paul J., 4,697,869, Cl. 350-96.150.
So, Vincent C.; Hughes, Richard P.; Vella, Paul J.; and Lamont, Jason B., 4,708,476, Cl. 356-73.100.
So, Vincent C.; Vella, Paul J.; Clegg, David D.; and Hughes, Richard P., 4,709,414, Cl. 455-607.000.

Vellekoop, Linda J., to Colgate-Palmolive Company. Stable dental cream in polyethylene or polypropylene container. 4,705,680, 11-10-87, Cl. 424-55.000.

Velleman, Koen, to Velleman-Switch, naamloze vennootschap. Membrane for membrane switches and composing elements thereof. 4,695,681, 9-22-87, Cl. 200-5.00A.

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Vellinga, Sjoerd H. J., to Paques B.V. Apparatus for purifying water. 4,707,254, 11-17-87, Cl. 210-199.000.

Velo Bind, Inc.: *See*—
Abildgaard, William H., 4,674,906, Cl. 402-80.00P.
Abildgaard, William H., 4,685,700, Cl. 281-21.00R.
Abildgaard, William H.; and Hymmen, Karl, 4,708,560, Cl. 412-7.000.
Hymmen, Karl, 4,656,716, Cl. 29-270.000.
Hymmen, Karl, 4,656,907, Cl. 83-571.000.
Simon, Gary J., 4,700,601, Cl. 83-687.000.

Velsa Oy: *See*—
Makela, Markku, 4,708,218, Cl. 180-9.500.

Velsher, Benne: *See*—
Hvezda, Jaroslav M.; Velsher, Benne; and Middlehurst, Richard J., 4,700,998, Cl. 439-325.000.

Velsicol Chemical Corporation: *See*—
Churchurillo, Michael T.; and Cannan, Terrance, 4,693,889, Cl. 424-83.000.

Velsmidjan OL. Olsen: *See*—
Olsen, Karl H., 4,633,802, Cl. 114-367.000.

Velten & Pulver, Inc.: *See*—
Schneider, Thomas C., 4,684,011, Cl. 198-779.000.
Schneider, Thomas C., 4,710,089, Cl. 414-118.000.

Velthuis, Otto M.: *See*—
Boxhoorn, Gosse; Klazinga, Aan H.; and Velthuis, Otto M., 4,701,437, Cl. 502-348.000.

Veltman, Preston L., to A/S Niro Atomizer. Process for producing finely divided limestone for sulfur oxide removal. 4,713,226, 12-15-87, Cl. 423-242.000.

Veltman, Preston L.: *See*—
Jons, Ebbe S.; Liborius, Erik; Veltman, Preston L.; and Vernenkar, Krishnakant N., 4,666,694, Cl. 423-555.000.
Tell, Elaine N.; and Veltman, Preston L., 4,690,772, Cl. 252-106.000.

Veltri, Richard D.; and Galasso, Francis S., to United Technologies Corporation. Amorphous boron-carbon alloy tool bits and methods of making the same. 4,652,183, 3-24-87, Cl. 407-119.000.

Veltri, Richard D.: *See*—
Galasso, Francis S.; and Veltri, Richard D., 4,671,997, Cl. 428-408.000.

Veltrup, Elmar M. Apparatus for removing solid structures from body passages. 4,690,672, 9-1-87, Cl. 604-43.000.

Veltz, Jean-Noel: *See*—
Jouquey, Alain; Veltz, Jean-Noel; Salmon, Jean; and Mouren, Michel, 4,661,295, Cl. 260-397.450.
Jouquey, Alain; Philibert, Daniel; Moguilewsky, Martine; and Veltz, Jean-Noel, 4,664,850, Cl. 260-397.450.

Velvac, Inc.: *See*—
Grajek, Leonard A., 4,706,841, Cl. 220-375.000.

Velvel, William E.: *See*—
Cole, Paul M.; Johanson, William G.; McConnell, Ronald F.; Popper, Peter; and Velvel, William E., 4,659,325, Cl. 494-20.000.

Venable, Charles R., Jr., to Phillips Petroleum Company. Heat resistant process gas line. 4,664,863, 5-12-87, Cl. 264-262.000.

Venable, Frederick D., to TRW Inc. Tilt-telescope steering column. 4,649,769, 3-17-87, Cl. 74-493.000.

Venable, Larry G.: *See*—
Shu, Jing S.; Covington, Johnny B.; Lee, Wei; Venable, Larry G.; and Varnell, Gilbert L., 4,657,844, Cl. 430-325.000.

Venable, William H., to Hunter Associates Laboratory, Inc. Modeling properties of flake finishes using directional resolution and statistical

flake orientation distribution function. 4,711,580, 12-8-87, Cl. 356-406.000.
Venables, Charles R. Plant extractor. 4,642,918, 2-17-87, Cl. 37-2.00R.
Venalainen, Tapani; Pakkanen, Tapani; Pakkanen, Tuula; and Iiskola, Eero, to Neste Oy. Catalyst and method for producing hydrogen gas from carbon monoxide and water. 4,699,775, 10-13-87, Cl. 423-655.000.
Venaleck, John T.: *See*—
Hartman, John E.; and Venaleck, John T., 4,641,426, Cl. 29-839.000.
Hartman, John E.; and Venaleck, John T., 4,663,815, Cl. 29-839.000.
Vendo Company, The: *See*—
Wilson, Aaron W.; and Pollock, Richard A., 4,696,413, Cl. 221-13.000.
Veneklasen, Lee H.; and Yagunoff, Guy G., to Perkin-Elmer Corporation, The. Field emission gun electrode geometry for improved focus stability. 4,695,773, 9-22-87, Cl. 315-382.000.
Venema, Harry J., to Borg-Warner Corporation. Active shock absorbing system for a vehicle. 4,637,621, 1-20-87, Cl. 200-6.00R.
Veneroni, Flavio: *See*—
Grabitz, Ernst B.; and Veneroni, Flavio, 4,677,073, Cl. 435-256.000.
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Boros, Imre; Venetianer, Pal; and Posfai, Gyorgy, 4,703,012, Cl. 435-320.000.
Venkata, Subrahmanyam S.: *See*—
Williams, Timothy J.; El-Sharkawi, Mohamed A.; and Venkata, Subrahmanyam S., 4,677,364, Cl. 322-47.000.
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Wilson, James M.; Coller, Dana L.; and Venkataramani, Subramaniam, 4,670,243, Cl. 423-598.000.
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Venkatesan, Valad, to Mobil Oil Corporation. Simultaneous recovery of crude from multiple zones in a reservoir. 4,669,542, 6-2-87, Cl. 166-258.000.
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Kim, Jonathan J.; and Venkateswaran, Viswanathan, 4,666,775, Cl. 428-398.000.
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Laugesen, Ronald C.; and Venkitakrishnan, Padmanabha I., 4,641,247, Cl. 364-490.000.
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Gill, Geoffrey Y.; Hunter, Paul F.; and Venlet, Gerard W., 4,642,001, Cl. 408-59.000.
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Vincent, David, 4,659,975, Cl. 318-814.000.
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Linkow, Leonard I.; and Rinaldi, Anthony W., 4,713,004, Cl. 433-174.000.
Venter, Philippus, to Tula Silencers (Propriety) Limited. Exhaust silencer. 4,683,978, 8-4-87, Cl. 181-280.000.
Ventimiglia, Joseph J., to Sinclair and Rush, Inc. Dip mold and process. 4,695,241, 9-22-87, Cl. 425-275.000.
Ventura, Frank D., to Kenner Parker Toys Inc. Interfitting toy vehicle body and chassis. 4,678,451, 7-7-87, Cl. 446-471.000.
Venturello, Carlo; Alneri, Enzo; Coassolo, Alfredo; and D'Aloisio, Rino, to Istituto Guido Donegani S.p.A. Process for preparing alkyl esters of methyltartronic acid. 4,701,550, 10-20-87, Cl. 560-180.000.
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Brule, Paul L., 4,650,067, Cl. 198-841.000.
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Sigerist, Helmut, 4,642,954, Cl. 52-204.000.
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Cottrell, Henry L.; and Venturi, William L., 4,691,945, Cl. 285-419.000.
Venus, Frank, Jr., to Pharmasol Corporation, The. Non-throttling discharge pump. 4,693,675, 9-15-87, Cl. 417-489.000.
Venus Scientific Inc.: *See*—
Gallios, George C.; and Lien, Charles, 4,639,844, Cl. 363-17.000.
Lien, Charles, 4,709,323, Cl. 363-97.000.
Whitehead, Derek; Lien, Charles; Walz, Herman; and Gallios, George C., 4,670,817, Cl. 361-388.000.
Venuti, Michael C., to Syntex (U.S.A.) Inc. (2-oxo-3-methylene-1,2,3,5-tetrahydroimidazo[2,1-b]quinazolinyl)oxyalkylamides useful as cyclic AMP phosphodiesterase inhibitors. 4,670,434, 6-2-87, Cl. 514-234.000.
Venuti, Michael C.: *See*—
Fried, John H.; and Venuti, Michael C., 4,690,925, Cl. 514-267.000.
Jones, Gordon H.; Venuti, Michael C.; Alvarez, Robert; Bruno, John J.; and Pfister, Jurg R., 4,663,320, Cl. 514-212.000.
Vepa Aktiengesellschaft: *See*—
Cornell, S. Douglas, 4,667,653, Cl. 126-438.000.
Fleissner, Gerold, 4,645,109, Cl. 226-42.000.
Fleissner, Gerold, 4,656,845, Cl. 68-205.00R.
Fleissner, Gerold, 4,658,512, Cl. 34-155.000.
Fleissner, Gerold, 4,665,815, Cl. 100-2.000.
Fleissner, Heinz, 4,638,572, Cl. 34-41.000.
Fleissner, Heinz, 4,674,197, Cl. 34-68.000.
Ver-Val Enterprises, Inc.: *See*—
Brown, Wallace L.; and Madamba, O. Mark, 4,708,048, Cl. 89-1.805.
Vera, Enrique R. M.; and Becerra-Novoa, Jorge O., to Hylsa, S.A. Method of reducing iron ore. 4,668,284, 5-26-87, Cl. 75-35.000.
Veracchi, F. Baldo, to Critikon GmbH. Gravity infusion regulating apparatus. 4,652,262, 3-24-87, Cl. 604-250.000.
Verbaan, Bernard. Recovery of tungsten valves from alkaline solutions. 4,654,131, 3-31-87, Cl. 204-98.000.
Verbanets, William R., Jr., to Westinghouse Electric Corp. Programmed overexcitation protective relay and method of operating the same. 4,694,374, 9-15-87, Cl. 361-96.000.
Verbanets, William R., Jr.: *See*—
Vercellotti, Leonard C.; Verbanets, William R., Jr.; and York, Theodore H., 4,644,547, Cl. 371-69.000.
Vercellotti, Leonard C.; and Verbanets, William R., Jr., 4,644,566, Cl. 375-94.000.
Vercellotti, Leonard C.; and Verbanets, William R., Jr., 4,653,072, Cl. 375-94.000.
Vercellotti, Leonard C.; and Verbanets, William R., Jr., 4,653,073, Cl. 375-94.000.
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Arndt, John L.; and Koo, Karlson, 4,689,254, Cl. 428-65.000.
Bond, Charles R., 4,686,470, Cl. 324-207.000.
Mroz, Edward; and van Blerk, Victor B., 4,648,002, Cl. 360-137.000.
Preysman, Vladimir, 4,695,982, Cl. 364-506.000.
Verbauwhede, Germain: *See*—
Vanassche, Roger; and Verbauwhede, Germain, 4,650,068, Cl. 198-847.000.
Verbeeck, Alain A. J.: *See*—
Remacle, Roger E. M.; and Verbeeck, Alain A. J., 4,711,728, Cl. 210-772.000.
Verbeeck, Pierre, to Phormium N.V. Woven screen material and method of making. 4,644,684, 2-24-87, Cl. 47-31.000.
Verbeek, Johan: *See*—
Mynott, Ralph; and Verbeek, Johan, 4,715,647, Cl. 296-152.000.
Verbeek, Pieter W.; Klaase, Petrus T. A.; and Theil, Arne, to Nederlandse Centrale Organisatie Voor Toegepast-Natuurwetenschappelijk Onderzoek. Resonant piezoelectric sensor. 4,712,037, 12-8-87, Cl. 310-323.000.
Verbeek, Robert J. M.: *See*—
Zoetman, Herman; and Verbeek, Robert J. M., 4,686,482, Cl. 328-164.000.
Verber, Carl M., to Battelle Memorial Institute. All-optical A/D conversion using integrated nonlinear guided wave optical circuitry. 4,712,089, 12-8-87, Cl. 340-347.0AD.
Verbergt, Jan: *See*—
Melis, Florentinus; Verbergt, Jan; and Van Rooy, Willy, 4,649,260, Cl. 219-267.000.
Verberne, Petrus A. C.: *See*—
Faes, Franciscus C. M.; Van Gastel, Josephus M. M.; Smolders, Jozef G. H. M.; Theelen, Hubertus J.; and Verberne, Petrus A. C., 4,657,158, Cl. 221-25.000.
Faes, Franciscus C. M.; van de Ven, Johannes T. A.; Verberne, Petrus A. C.; and Smolders, Jozef G. H. M., 4,664,591, Cl. 414-753.000.
Verbist, Jacques: *See*—
Lazzaroni, Roberto; Riga, Joseph; and Verbist, Jacques, 4,663,001, Cl. 204-78.000.

Verble, Patrick R., to North American Roofing Company, Inc. Apparatus for attaching roofing membrane to a structure. 4,658,558, 4-21-87, Cl. 52-410.000.

Verboom, Gilles M. L.: *See*—
Bliznik, Kenneth E.; and Verboom, Gilles M. L., 4,686,065, Cl. 252-159.000.
Kickle, Hunter L.; Urfer, Allen D.; Cahn, Arno; Borys, Nelson F.; and Verboom, Gilles M. L., 4,675,127, Cl. 252-174.170.

Verboom, Johannes J., to Laser Magnetic Storage International Company. Read channel for an optical recorder. 4,646,281, 2-24-87, Cl. 369-59.000.

Verbout, Jerry L.: *See*—
Smith, Harry D., Jr.; and Verbout, Jerry L., 4,638,161, Cl. 250-269.000.

Verbrugge, Calvin J.: *See*—
Coyle, E. Michael; Reichley, Fred J.; Verbrugge, Calvin J.; and Villarreal, John G., 4,680,202, Cl. 427-389.900.

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Verbunt, Johannes P. M., to U.S. Philips Corporation. Lamellar magnetic core utilizing low viscosity epoxy adhesive. 4,713,297, 12-15-87, Cl. 428-414.000.

Verburgh, Martin B.; and Pfeifle, Dieter, to SKF Industrial Trading and Development Company B.V. Method for welding two parts together employing a concentrated energy beam and protective member. 4,691,092, 9-1-87, Cl. 219-121.0LD.

Vercellotti, Leonard C.; Verbanets, William R., Jr.; and York, Theodore H., to Westinghouse Electric Corp. Digital message format for two-way communication and control network. 4,644,547, 2-17-87, Cl. 371-69.000.

Vercellotti, Leonard C.; and Verbanets, William R., Jr., to Westinghouse Electric Corp. Low error rate digital demodulator. 4,644,566, 2-17-87, Cl. 375-94.000.

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Engel, Joseph C.; Boomgaard, Dirk J.; and Vercellotti, Leonard C., 4,646,319, Cl. 375-7.000.

Vercherin, Denis J. N.: *See*—
Holz, Robert G.; and Vercherin, Denis J. N., 4,667,532, Cl. 174-573.00R.

Verco Engineered Sales Co.: *See*—
Lair, Verle D.; and Lair, Paul D., 4,674,754, Cl. 277-1.000.

Verdal Maskinverksted A/S. *See*—
Ekman, Heinz, 4,665,805, Cl. 98-331.000.

Verde, Jewel: *See*—
McDermott, Julian A.; Verde, Jewel; and McDermott, Wayne, 4,694,281, Cl. 340-521.000.

Verde, Luigi. Process for the clarification of water. 4,675,112, 6-23-87, Cl. 210-616.000.

Verde, Patric: *See*—
Zipf, Eckart; Arteon, Marcel; and Verde, Patric, 4,703,595, Cl. 52-125.400.

Verdeau, Jean-Jacques; and Yazdjian, Jean-Claude, to Framatome & Cie. Nuclear reactor with core partitioning by bracing rods and plates. 4,675,152, 6-23-87, Cl. 376-400.000.

Verdenne, Serge: *See*—
Jego, Gerard; Thierry, Jean Pierre; and Verdenne, Serge, 4,668,035, Cl. 339-22.00B.

Verdi, Cesare: *See*—
Delfino, Gerolamo; Franco, Simone; and Verdi, Cesare, 4,695,531, Cl. 430-513.000.

Verdier, Alain, to Black & Decker Inc. Accessory box. 4,703,852, 11-3-87, Cl. 206-349.000.

Verdier, Bernard: *See*—
Langlois, Jean-Pierre; and Verdier, Bernard, 4,667,444, Cl. 51-101.0LG.

Verdin, Joe L. Light mounting for firearms. 4,697,226, 9-29-87, Cl. 362-110.000.

Verdini, Antonio S.; and Viscomi, Giuseppe C., to ENI-Ente Nazionale Idrocarburi. Retro-inverso C-terminal hexapeptide analogues of substance P. 4,638,046, 1-20-87, Cl. 530-332.000.

Verdini, Antonio S.: *See*—
Bonelli, Fabio; Pessi, Antonello; and Verdini, Antonio S., 4,716,149, Cl. 514-13.000.
Sisto, Alessandro; Verdini, Antonio S.; and Virdia, Antonino, 4,713,367, Cl. 514-17.000.
Sisto, Alessandro; Verdini, Antonio S.; Virdia, Antonino; De Luca, Giovanna; Di Stazio, Giovanni; and Politi, Vincenzo, 4,713,368, Cl. 514-18.000.

Verdone, Michael A., to Memorex Corporation. Fabrication of "Delta" magnetic head-sliders. 4,644,641, 2-24-87, Cl. 29-603.000.

Verdonschot, Joannes F. J.: *See*—
Pothast, Lambertus A.; Grootentraast, Johannes P.; and Verdonschot, Joannes F. J., 4,711,562, Cl. 355-16.000.

Verdoodt, Dirk: *See*—
DeFlander, Jos; and Verdoodt, Dirk, 4,635,795, Cl. 206-526.000.

Verduin, Lee C.; and Brotz, William C. Video jukebox. 4,667,802, 5-26-87, Cl. 194-217.000.

Verduin, Lee C.: *See*—
Hoffman, David; Verduin, Lee C.; and Ouwinga, Ross, 4,677,777, Cl. 40-460.000.

Verduyn, Hendrik A.; and Griffioen, Arie, to Seac International B.V. Process for conditioning a gas stream charged with solid particles and/or vapors. 4,666,470, 5-19-87, Cl. 55-20.000.

Vere, Bernard; Mathevon, Paul; and Decarsin, Michel, to Cogema et Framatome. Process and device for positioning hair-pin springs on plate, particularly for fuel assembly grids. 4,633,569, 1-6-87, Cl. 29-514.000.

Vere, Bernard; and Mathevon, Paul, to Societe Cogema, Framatome, Uranium Pechiney. Device for positioning hair pin springs on plates, more especially for fuel assembly grids. 4,646,431, 3-3-87, Cl. 29-723.000.

Vere, Bernard; and Mathevon, Paul, to Cogema, Framatome et Uranium Pechiney. Process and apparatus for electron beam welding grids for a nuclear fuel assembly. 4,680,443, 7-14-87, Cl. 219-121.0ED.

Vere, Bernard; and Mathevon, Paul, to Societe Cogema, Framatome et Uranium Pechiney. Device for moving nuclear fuel element sheaths at a fixed filling station. 4,680,920, 7-21-87, Cl. 53-525.000.

Vere, Bernard; and Mathevon, Paul, to Societe Cogema, Framatome et Uranium Pechiney. Manufacturing installation with several fixed work posts and a handling device. 4,700,824, 10-20-87, Cl. 198-346.200.

Vereczkey, Laszlo: *See*—
Perjes, Istvan; Szporny, Laszlo; Selmeczi, Andras; Vereczkey, Laszlo; Klebovich, Imre; Toth, Edit; Hajos, Gyorgy; Torley, Jozsef; Simon, Ferenc; Sarkozy, Peter; and Misley, Attila, 4,659,712, Cl. 514-249.000.
Toth, Edit; Torley, Jozsef; Fekete, Gyorgy; Szporny, Laszlo; Vereczkey, Laszlo; Palosi, Eva; Klebovich, Imre; Vitay, Pal; Gorog, Sandor; and Hajdu, Istvan, 4,645,779, Cl. 514-648.00.

Vered, Areyh: *See*—
Berliner, Shlomo; Vered, Areyh; Shmuel, Resch; and Vaje, Moshe, 4,703,259, Cl. 324-95.000.

Vereinigte Aluminium-Werke AG: *See*—
Spriestersbach, Jochen; and Wothe, Herbert, 4,660,614, Cl. 164-113.000.

Vereinigte Aluminium-Werke Aktiengesellschaft: *See*—
Asten, Wolfgang V.; Dorner, Karl H.; Schoel, Hartmut; and Wurstle, Volker, 4,715,903, Cl. 148-11.50A.
Brown, Neil; Kudermann, Gerhard; and Fuchs, Manfred, 4,668,486, Cl. 423-130.000.
Schultze, Werner; and Weber, Knut, Jr., 4,657,794, Cl. 428-36.000.
Wilkening, Siegfried, 4,635,273, Cl. 373-120.000.

Vereinigte Buchbindereimaschinenfabriken Gesellschaft mit beschrankter Haftung: *See*—
Kupka, Gerhard; and Muller, Hans, 4,662,979, Cl. 156-578.000.

Vereinigte Dentalwerke Antaeos-Beutelhock, Zipperer Zdarsky Ehr GmbH & Co. KG: *See*—
Zdarsky, Eduard, 4,643,674, Cl. 433-102.000.

Vereinigte Edelstahlwerke A.G.: *See*—
Vadasz, Amnon F., 4,662,392, Cl. 137-533.110.

Vereinigte Edelstahlwerke Aktiengesellschaft (VEW): *See*—
Jaritz, Erich; and Krammer, Gunter, 4,686,877, Cl. 83-177.000.

Vereinigte Flugtechnische Werke GmbH: *See*—
Thiede, Peter, 4,660,788, Cl. 244-209.000.

Vereinigte Papierwerke, Schickedanz & Co.: *See*—
Sustmann, Scarlet, 4,642,108, Cl. 604-379.000.
Sustmann, Scarlet, 4,661,101, Cl. 604-360.000.
Sustmann, Scarlet, 4,699,618, Cl. 604-365.000.

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Schubert, Rainer; and Weber, Otto, 4,693,653, Cl. 411-387.000.

Veres, James E.; Stein, James B.; Beauchamp, Robert W.; Kimmens, Harold R.; Baird, David W.; Roman, Michael J.; Therrien, David G.; and Doyle, John J., to Data General Corporation. Unique process for loading a microcode control store in a data processing system. 4,654,783, 3-31-87, Cl. 364-200.000.

Verga, Alberto; and Signorini, Roberto, to Ravizza SpA. Process for preparing 2(4-fluorophenyl)alpha-methyl-5-benzoxazole acetic acid. 4,652,654, 3-24-87, Cl. 548-217.000.

Verga, Alberto; Piccolo, Oreste; and Valoti, Ermanno, to Ravizza SpA. Process for the resolution of (±) 2-[2'-(p-fluorophenyl)-5-benzoxazolyl]-propionic acid. 4,698,432, 10-6-87, Cl. 548-224.000.

Verga, Charles F.: *See*—
Belleau, Gordon F.; Jelcin, Michael J.; and Verga, Charles F., 4,695,342, Cl. 156-173.000.

Vergara, Sossio; D'Arrigo, Sebastiano; and Imondi, Giuliano, to Texas Instruments Incorporated. High voltage pulse detector with controllable current consumption. 4,706,011, 11-10-87, Cl. 323-274.000.

Vergara, Sossio: *See*—
D'Arrigo, Sebastiano; Imondi, Giuliano; and Vergara, Sossio, 4,652,837, Cl. 331-111.000.
D'Arrigo, Sebastiano; Imondi, Giuliano; and Vergara, Sossio, 4,716,322, Cl. 307-592.000.

Verge, John P.: *See*—
Marshall, Winston S.; and Verge, John P., 4,661,505, Cl. 514-381.000.
Steggles, David J.; and Verge, John P., 4,675,333, Cl. 514-381.000.
Steggles, David J.; and Verge, John P., 4,675,334, Cl. 514-381.000.

Vergel, Jorge, Jr. to V. M. International, Inc. Refrigeration moisture eliminating device and method. 4,683,724, 8-4-87, Cl. 62-85.000.

Verges, Jaime M., to Mikalor, S.A. Clamping collar. 4,706,346, 11-17-87, Cl. 24-274.00R.

Verges, Jose: *See*—
Sarrat, Rolland; and Verges, Jose, 4,676,102, Cl. 73-334.000.

Vergne, Bernard, to Societe Nationale Elf Aquitaine; and Mareck B.V. Drawn assembly for pulsatory combustion. 4,708,634, 11-24-87, Cl. 431-1.000.

Vergnetti, Joseph A.: Workpiece stacker for sewing machines. 4,664,367, 5-12-87, Cl. 271-175.000.

Vergona, Albert B., to Eastman Kodak Company: Circuit for electro-optic modulators. 4,667,256, 5-19-87, Cl. 358-302.000.

Verhaagen, Donald R.: *See*—
Coleman, Darrel F.; Kalin, Horst W.; and Verhaagen, Donald R., 4,645,242, Cl. 285-158.000.

Verhaagen, Ronald J., to Minnesota Mining and Manufacturing Company: Image rotation system. 4,710,004, 12-1-87, Cl. 353-31.000.

Verhagen, Johannes P. C. M., to U.S. Philips Corporation: Disc holder for a rigid audio and/or video disc. 4,707,821, 11-17-87, Cl. 369-292.000.

Verhecken, Andre: *See*—
Van de Sande, Christian C.; Van den Bergh, Armand M.; and Verhecken, Andre, 4,663,273, Cl. 430-563.000.

Verheijen, Egidius J. M., to Stamicarbon B.V.: Composition of triglycidylisocyanurate with reduced tackiness. 4,696,960, 9-29-87, Cl. 524-100.000.

Verheul, Hans H.; and Matena, Jan, to U.S. Philips Corporation: Arrangement for checking the parity of parity-bits containing bit groups. 4,698,814, 10-6-87, Cl. 371-49.000.

Verheul, Hermanus A. M.: *See*—
Kelder, Jan; and Verheul, Hermanus A. M., 4,701,450, Cl. 514-177.000.

Verheyden, Julien P. H.; Martin, John C.; Madhavan, G. V. Bindu; McGee, Daniel P. C.; and Prisbe, Ernest J., to Syntex (U.S.A.) Inc.: Tricyclic derivatives of substituted pyrimidines. 4,704,392, 11-3-87, Cl. 514-267.000.

Verhoeven, Constant T.; and Hens, Carolus M-Th. L., to Metallurgie Hoboken-Overpelt: Process and apparatus for stacking spent anodes. 4,657,464, 4-14-87, Cl. 414-35.000.

Verhoeven, John D.: *See*—
Atzmon, Michael; Johnson, William L.; and Verhoeven, John D., 4,643,816, Cl. 419-24.000.

Verhoeven, Laurentius M.; and van Nes, Cornelis G. J., to Du Pont de Nemours, E. I., and Company: Card holder. 4,696,529, 9-29-87, Cl. 439-267.000.

Verhoeven, Laurentius M., to Du Pont de Nemours, E. I., and Company: Method for the processing of a cable end and cable connector for connection to the cable. 4,697,339, 10-6-87, Cl. 29-828.000.

Verhoeven, Laurentius M., to Du Pont de Nemours, E. I., and Company: Connector for a coaxial cable. 4,701,001, 10-20-87, Cl. 439-394.000.

Verhoeven, Laurentius M., to Du Pont de Nemours, E. I., and Company: Connector for interconnecting cable to a printed circuit board. 4,715,824, 12-29-87, Cl. 439-391.000.

Verhoeven, Leonardus A. J., to U.S. Philips Corporation: Arrangement for making a photographic slide or cine-film recording of a television picture. 4,649,433, 3-10-87, Cl. 358-244.000.

Verhoeven, Robertus J. M.: *See*—
Berhoff, Waltherus C. J.; Schuitmaker, Pieter D.; Ouwerkerk, Cornelis; and Verhoeven, Robertus J. M., 4,696,590, Cl. 400-613.000.

Verhoeven, Thomas R.; McNamara, James M.; and Sletzinger, Meyer, to Merck & Co., Inc.: Process for preparing HMG-CoA reductase inhibitors with a 3,5-dihydroxypentanoate subunit. 4,645,854, 2-24-87, Cl. 560-60.000.

Verhoeven, Thomas R., to Merck & Co., Inc.: Preparation of dibenzo[b,f]thiepin compounds. 4,697,037, 9-29-87, Cl. 562-432.000.

Verhulst, Michael J.; and Anstey, Henry D., to Deere & Company: Assembly for guiding wrap material from the rear of a baler to a bale-forming chamber inlet. 4,676,046, 6-30-87, Cl. 53-118.000.

Verhulst, Michael J.; and Anstey, Henry D., to Deere & Company: System for automatically enveloping a large round bale with a wrapping. 4,677,807, 7-7-87, Cl. 53-118.000.

Vericom Corporation: *See*—
Bonin, Wayne A.; McCumber, Roger D.; and Teder, Rein S., 4,694,687, Cl. 73-116.000.

Veriflo Corporation: *See*—
Ollivier, Louis A., 4,702,277, Cl. 137-613.000.

Verify Electronics Limited: *See*—
Howbrook, Ernest, 4,697,144, Cl. 324-707.000.

Verity, Philip R., to Plessey Overseas Limited: Power supplies. 4,695,937, 9-22-87, Cl. 363-25.000.

Verkasalo, Matti, to Valmet Oy: Method and apparatus in the calendering of a web. 4,653,395, 3-31-87, Cl. 100-30.000.

Verkasalo, Matti, to Valmet Oy: Apparatus and method for electromagnetic heating of a roll. 4,675,487, 6-23-87, Cl. 219-10.430.

Verkasalo, Matti: *See*—
Malkki, Raimo; Kuisma, Antti; and Verkasalo, Matti, 4,634,068, Cl. 242-65.000.

Verkler, Charles E., to International Food Equipment Inc.: Hamburger cooking apparatus. 4,690,044, 9-1-87, Cl. 99-419.000.

Verkler, Charles E., to International Food Equipment Inc.: Frozen dessert mixer. 4,693,611, 9-15-87, Cl. 366-195.000.

Verkstads AB Claes Johansson: *See*—
Andersson, Olle, 4,709,592, Cl. 74-493.000.

Verlander, Michael S.: *See*—
Goodman, Murray; Marr-Leisy, Debra; Rosenkranz, Roberto P.; Melmon, Kenneth L.; and Verlander, Michael S., 4,687,873, Cl. 560-28.000.

Verley, Donald: *See*—
McCann, Gerald P.; Holoubek, Andrew J.; and Verley, Donald, 4,712,591, Cl. 141-88.000.

Verlijsdonk, Johannus G.: *See*—
Schutten, Evert D.; and Verlijsdonk, Johannus G., 4,716,335, Cl. 313-486.000.
Schutten, Evert D.; and Verlijsdonk, Johannus G., 4,716,336, Cl. 313-486.000.

Verlinden, Willy G.: *See*—
De Schamphelaere, Lucien A.; Librecht, Freddy M.; and Verlinden, Willy G., 4,636,060, Cl. 355-14.0CH.

Vermaat, Huibrecht P.; Forch, Heiko; and Mehr, Lothar, to Brown Boveri Reaktor GmbH: Device for testing and/or repairing steam generator tubes. 4,649,989, 3-17-87, Cl. 165-11.200.

Vermaat, Huibrecht P., to Brown Boveri Reaktor GmbH: Device for inspection and/or repair of the tubes of a steam generator for nuclear reactors. 4,673,027, 6-16-87, Cl. 165-11.200.

Vermeer Manufacturing Co.: *See*—
Harthoorn, Carroll L., 4,707,974, Cl. 56-341.000.
Mathes, Arnold; and Hite, Lester C., 4,662,151, Cl. 53-587.000.
Newendorp, Vincent W.; and Van Zee, Daryl W., 4,702,066, Cl. 56-341.000.
Van Ryswyk, Wilbur, 4,683,815, Cl. 100-88.000.

Vermesh, Robert J.: *See*—
Klacik, Kenneth J.; Vermesh, Robert J.; Frenczkowski, Paul R.; DeTora, Sigismondo A.; and Mihalich, Donald, 4,657,501, Cl. 425-379.00R.

Vermeule, Jacob: *See*—
de Jong, Feike; and Vermeule, Jacob, 4,715,973, Cl. 252-40.500.

Vermeulen, Arend J. W. A.: *See*—
Theuwissen, Albert J. P.; Izushi, Munehisa; Jaspers, Cornelis A. M.; van de Steeg, Martinus J. H.; and Vermeulen, Arend J. W. A., 4,668,991, Cl. 358-227.000.

Vermeulen, Freddy J., to U.S. Philips Corporation: Adjustable electromechanical device. 4,665,464, 5-12-87, Cl. 361-293.000.

Vermeulen-Hollandia Octrooien II B.V.: *See*—
Boots, Robert T., 4,643,478, Cl. 296-221.000.
Boots, Robert T., 4,650,244, Cl. 296-223.000.
Boots, Robert T., 4,673,210, Cl. 296-221.000.
Boots, Robert T., 4,678,228, Cl. 296-216.000.

Vermeulen, Leon L.; Ghys, Theofiel H.; De Smedt, Willy P.; Verviloet, Ludovicus H.; and Callant, Paul R., to Agfa-Gevaert N.V.: Photographic silver complex diffusion transfer reversal process under yellow safelight. 4,686,170, 8-11-87, Cl. 430-244.000.

Vermeulen, Leon L.: *See*—
Nys, Pierre H.; and Vermeulen, Leon L., 4,635,133, Cl. 358-298.000.

Vermeulen, Ronny, to Siemens Aktiengesellschaft: Key module with key member retained by swing members. 4,705,925, 11-10-87, Cl. 200-340.000.

Vermij, Leendert, to Littelfuse-Tracor B.V.: High current interrupting fuse with arc quenching means. 4,703,299, 10-27-87, Cl. 337-158.000.

Vermilion, Donn R.: *See*—
Algrim, Donald J.; Vermilion, Donn R.; Hammond, Donald J.; and Haines, Richard M., 4,636,437, Cl. 428-391.000.

Vermilion, Everette E.: *See*—
Petersen, Noel S.; and Vermilion, Everette E., 4,639,730, Cl. 340-970.000.

Vermillion, Don W., to Singer Company, The: Vacuum cleaner bag suspension. 4,662,913, 5-5-87, Cl. 55-357.000.

Vermilye, Michael L., to Boeing Company, The: Hinge system for thrust reverser cowl. 4,697,763, 10-6-87, Cl. 244-129.400.

Vermilyea, Mark E., to General Electric Company: Passive shimming assembly for MR magnet. 4,698,611, 10-6-87, Cl. 335-298.000.

Vermont American Corporation: *See*—
Knox, John D., 4,633,959, Cl. 175-410.000.

Vermont Castings, Inc.: *See*—
Ferguson, Robert W.; Anders, Derik K.; and Crossman, William W., Jr., 4,646,712, Cl. 126-79.000.

Vermont Castins, Inc.: *See*—
Ferguson, Robert W.; Anders, Derik K.; and Reed, E. Smith, Jr., 4,683,868, Cl. 126-193.000.

Vernet-Gauchy, Robert: *See*—
DesBlache, Andre; Galand, Claude; and Vernet-Gauchy, Robert, 4,672,669, Cl. 381-46.000.

Vernam, William D.; and Lifka, Bernard W., to Aluminum Company of America: Aluminum base alloys of the Al-Cu-Mg-Zn type. 4,711,762, 12-8-87, Cl. 420-532.000.

Vernay Laboratories, Inc.: *See*—
Beard, Dennis J., 4,661,183, Cl. 156-172.000.
Boehmer, Dennis A.; and Piper, Dale R., 4,702,386, Cl. 220-86.00R.
Ford, John R., 4,713,029, Cl. 440-89.000.
Lebold, John R., 4,702,215, Cl. 123-514.000.

Vernay, Pierre, to Foseco International Limited: Casting of molten ferrous metal and moulds for use therein. 4,690,196, 9-1-87, Cl. 164-58.100.

Vernelson, Walter M.; and Murphy, Karen S.: Sculptured bird kite. 4,669,684, 6-2-87, Cl. 244-153.00R.

Vernenkar, Krishnakant N.: *See*—
Jons, Ebbe S.; Liborius, Erik; Veltman, Preston L.; and Vernenkar, Krishnakant N., 4,666,694, Cl. 423-555.000.

Verner, Bo L.: *See*—
Fors, Lars B. S.; and Verner, Bo L., 4,664,792, Cl. 210-170.000.
Ripl, Wilhelm K.; and Verner, Bo L., 4,695,384, Cl. 210-602.000.

Verner, Michael L., to Maxon Industries, Inc.: Refuse pickup and compactor body. 4,648,775, 3-10-87, Cl. 414-513.000.

Verner Michael L., to Maxon Industries, Inc.: Refuse pickup and compactor body. 4,691,959, 9-8-87, Cl. 296-184.000.

Verney-Carron, Claude, to Verney-Carron S.A. Barrel and interchangeable trigger plate locking device for shot guns. 4,646,457, 3-3-87, Cl. 42-41.000.

Verney-Carron S.A.: *See*—
Verney-Carron, Claude, 4,646,457, Cl. 42-41.000.

Verney, Marthe B.; and Doucet, Henri J., to Centre National de la Recherche Scientifique. Negative ion source. 4,661,710, 4-28-87, Cl. 250-423.00R.

Vernhet, Jean; and de Couasnon, Tristan, to Thomson-CSF. Didon digital demodulator. 4,636,859, 1-13-87, Cl. 358-147.000.

Vernikov, Arkady Y.; Gamarnik, Iosif I.; Rashkovich, Mikhail P.; Trostanovsky, Boris A.; and Khinkus, Alexandr S., to Odesskoe Spetsialnoe Konstruktorskoe Bjuro Spetsialnykh Stankov. Device for magnetically holding workpieces. 4,691,183, 9-1-87, Cl. 335-289.000.

Vernois, Michel; and Paugam, Francois, to Isoroy. Moldable fibrous sheet and a method for manufacturing same. 4,680,219, 7-14-87, Cl. 428-222.000.

Vernon and Company (Pulp Products) Limited: *See*—
Waller, Martin; Farrell, Geoffrey; Mills, Kenneth W., deceased; Mason, Margaret, executor; and Shindler, Geoffrey A., executor, 4,683,028, Cl. 162-275.000.

Vernon, George M.: *See*—
Curro, John J.; Trusty, Alan J.; and Vernon, George M., 4,695,422, Cl. 264-504.000.

Vernon, Patrick; and Ostiz, Jean-Claude, to Schlumberger Technology Corporation. System for recording a variable value, notably in a well, and for compressing stored measurement interval data. 4,715,002, 12-22-87, Cl. 364-422.000.

Vernon, Roger W. Vehicle tire monitoring apparatus. 4,695,823, 9-22-87, Cl. 340-58.000.

Vernon, Thomas, to Burckhardt America, Inc. Yarn treating device for open-end spinning frames. 4,712,369, 12-15-87, Cl. 57-417.000.

Vernooij, Marinus G.; and Daniels, John A. J., to U.S. Philips Corporation. Discharge lamp circuit heat-sinked to the lamp cap. 4,644,226, 2-17-87, Cl. 315-50.000.

Verona, Robert W., to United States of America, Army. Measurement of temporal response of electro-optical systems. 4,647,783, 3-3-87, Cl. 250-495.100.

Veronese, Giuseppe: *See*—
Baradel, Agostino; Guerriero, Renato; and Veronese, Giuseppe, 4,701,311, Cl. 423-87.000.

Veronesi, Luciano; Obermeyer, Franklin D.; and Chrise, James R., to Westinghouse Electric Corp. Nuclear reactor. 4,681,728, 7-21-87, Cl. 376-209.000.

Veronesi, Luciano, to Westinghouse Electric Corp. Locking ring. 4,697,968, 10-6-87, Cl. 411-113.000.

Veronesi, Luciano; Tower, Stephen N.; and Klassen, William E., to Westinghouse Electric Corp. Fluid moderator control system fuel assembly seal connector. 4,708,842, 11-24-87, Cl. 376-203.000.

Veronesi, Luciano; and Garner, Daniel C., to Westinghouse Electric Corp. Nuclear reactor. 4,716,013, 12-29-87, Cl. 376-353.000.

Veronesi, Luciano: *See*—
Blaushild, Ronald M.; and Veronesi, Luciano, 4,657,730, Cl. 376-285.000.
Fensterer, Howard F.; Klassen, William E.; Veronesi, Luciano; Boyle, David E.; and Salton, Robert B., 4,661,306, Cl. 376-209.000.
Zafred, Paolo R.; Veronesi, Luciano; and Maurer, Robert J., 4,672,741, Cl. 29-726.000.

Verosol USA Inc.: *See*—
Judkins, Ren S., 4,673,018, Cl. 160-84.00R.

Ver Planck, Peter, to Megapulse, Inc. SCR priming and sweep-out circuit apparatus. 4,674,022, 6-16-87, Cl. 363-57.000.

Verpoort, Clemeens: *See*—
Meyer, Gundolf; and Verpoort, Clemeens, 4,706,361, Cl. 29-423.000.

Verrando, Marcel G.: *See*—
Miller, John D.; and Verrando, Marcel G., 4,687,573, Cl. 210-143.000.

Verrelli, Loreto, to EBCO Industries Ltd. Disk operated plastic bag dispenser. 4,715,489, 12-29-87, Cl. 194-256.000.

Verrells, Michael V.: *See*—
Pitt, Gilles D.; Scott, Brian J.; Verrells, Michael V.; Hancock, Nicholas K.; and Extance, Phillip, 4,672,216, Cl. 250-574.000.

Verrerie Cristallerie d'Arques J. G. Durand & Cie: *See*—
Durand, Philippe, 4,640,417, Cl. 206-426.000.

Verrerie du Languedoc et Cie: *See*—
Leser, Jacques, 4,694,158, Cl. 250-223.00B.

Verret, Allen J.: *See*—
LeBoeuf, Harry P.; Verret, Allen J.; and Broussard, Paul D., 4,633,953, Cl. 166-358.000.

Verrico, Marsha K., to Nabisco Brands, Inc. Method and apparatus for spraying snow-like frosting onto food stuff particles. 4,702,925, 10-27-87, Cl. 426-96.000.

Verrier, Guy F.: *See*—
Greanias, Evon C.; Guarnieri, C. Richard; Seeland, John J., Jr.; Verrier, Guy F.; and Donaldson, Robert L., 4,686,332, Cl. 178-19.000.

Verrier, Pierre E.: *See*—
Hanin, Jean A.; and Verrier, Pierre E., 4,683,343, Cl. 568-594.000.
Hanin, Jean A. A.; and Verrier, Pierre E., 4,656,215, Cl. 524-376.000.

Verrijp, Bastiaan: *See*—
Hazenbroek, Jacobus E.; Verrijp, Bastiaan; and Wallbridge, William L., 4,682,386, Cl. 17-46.000.

Verrips, Cornelis: *See*—
Edens, Luppo; Ledeboer, Adrianus; Verrips, Cornelis; and Van den Berg, Johannes A., 4,657,857, Cl. 435-68.000.

Versa Steel, Inc.: *See*—
Mares, Bernard A., 4,662,793, Cl. 405-253.000.

Versa Technologies, Inc.: *See*—
Schneider, Robert H., 4,704,947, Cl. 91-518.000.

Versace, Richard W.: *See*—
Ganguly, Ashit K.; Girijavallabhan, Viyyoor M.; Pinto, Patrick A.; and Versace, Richard W., 4,690,922, Cl. 514-210.000.

Versaci, Antonio A. Method and device for authentication of first day of issue stamps. 4,641,578, 2-10-87, Cl. 101-426.000.

Versailles, Richard E.: *See*—
Ratchford, Michael; Versailles, Richard E.; and Brown, Edward R., 4,646,241, Cl. 364-424.000.

Versatile Corporation: *See*—
Moos, Niklaus J.; and Papworth, Richard C., 4,660,652, Cl. 172-260.500.
Schaaf, David E.; and Jorna, Francesco M., 4,686,914, Cl. 111-73.000.
Shust, Ryan E.; and MacCourt, Fergus J., 4,685,340, Cl. 74-11.000.

Versatube Corporation: *See*—
Goodman, William, 4,643,787, Cl. 156-196.000.

Verschuur, Jacobus G.: *See*—
van Paassen, Nicolaas A. I.; and Verschuur, Jacobus G., 4,645,627, Cl. 260-501.210.

Verser, Donald W., to Phillips Petroleum Company. Vent control for a vessel. 4,674,290, 6-23-87, Cl. 62-45.000.

Verslycken, Alain R., to Constructions Electroniques de la Ferte Sous Jouarre. Surveillance and control system for emergency exits installed in a building. 4,652,862, 3-24-87, Cl. 340-540.000.

Verstappen, Hendrikus L.: *See*—
Chung, Kah-Seng; and Verstappen, Hendrikus L., 4,686,688, Cl. 375-47.000.

Versteegh, Willem M.; Toy, Lester T.; and Holland, Christine. Heat recoverable coextruded articles. 4,634,615, 1-6-87, Cl. 428-36.000.

Verstraete, Willy; and De Ley, Jozef, to Ateliers de Constructions Electriques de Charleroi (ACEC) Societe Anonyme. Process for the elimination of nitrates by means of a microbiological conversion in the presence of hydrogen gas. 4,696,747, 9-29-87, Cl. 210-605.000.

Verstraeten, Achiel, to Elektro Automaten Verstraeten p.v.b.a. Grab for slot machines. 4,684,128, 8-4-87, Cl. 273-1.0GC.

Verstraeten, Achiel, to Elektro Automaten Verstraeten p.v.b.a. Device for carrying the grab in slot machine cabinets. 4,685,673, 8-11-87, Cl. 273-1.0GC.

Verstraeten, Alexander J., to Funderingstechnieken Verstraeten B.V. Expansible drive core. 4,655,301, 4-7-87, Cl. 175-171.000.

Verstraeten, Alexander J., to Funderingstechnieken Verstraeten B.V. Method for making a hole in the ground, and hollow body open at the lower and upper sides and adapted for use in this method. 4,659,257, 4-21-87, Cl. 405-248.000.

Ver Strate, Gary W.: *See*—
Cozewith, Charles; Ju, Shiaw; and Ver Strate, Gary W., 4,716,207, Cl. 526-169.200.
Kresge, Edward N.; and Ver Strate, Gary W., 4,666,619, Cl. 252-56.00S.

VerTech Treatment Systems, Inc.: *See*—
Atwood, Mark T.; Carlson, Frank; and Peterscheck, Hermann, 4,692,252, Cl. 210-761.000.
Atwood, Mark T.; and Hall, Ronald H., 4,713,177, Cl. 210-697.000.
Rappe, Gerald C., 4,671,351, Cl. 165-133.000.

Vertegaal, Jacobus-Gerardus; and Anselrode, Lodewijk, to Stork Brabant B.V. Printing apparatus utilizing flexible metal sleeves as ink transfer means. 4,656,942, 4-14-87, Cl. 101-426.000.

Vertesi, Csaba; Molnar, Attila; and Guczoghy, Lajos, to Peremartoni Vegyipari Vallalat. Isothiuronium salts. 4,710,578, 12-1-87, Cl. 558-4.000.

Vertical Instruments, Inc.: *See*—
Vlakancic, Connor G.; Pereira, Ruy J.; and Goodman, Larry R., 4,694,694, Cl. 73-386.000.

Vertreese, John L.: *See*—
Sanders, Robert E.; Flynn, Charles J.; and Vertreese, John L., 4,682,079, Cl. 315-186.000.

Vervacke, Steven L.; and Petersen, Thomas C., to Appleton Papers Inc. Thermally-responsive record material. 4,675,707, 6-23-87, Cl. 503-214.000.

Vervecken, Jacques L.: *See*—
Vandenabeele, Hubert; and Vervecken, Jacques L., 4,670,376, Cl. 430-527.000.

Vervloet, Ludovicus H.: *See*—
Vermeulen, Leon L.; Ghys, Theofiel H.; De Smedt, Willy P.; Vervloet, Ludovicus H.; and Callant, Paul R., 4,686,170, Cl. 430-244.000.

Verweij, Jan; Grootveld, Herman H.; Hirs, Henri G. J.; Van Veen, Gerardus J.; Kalter, Jan; and Henniger, Peter W., to Gist-Brocades N.V. Cephalosporin deoxygenation process. 4,695,627, 9-22-87, Cl. 540-224.000.

VerWeire, James R.: *See*—
Armer, Leon N., Jr.; Antonio, Joseph M.; Roth, Craig A.; and VerWeire, James R., 4,684,137, Cl. 273-428.000.
Armer, Leon N., Jr.; Antonio, Joseph M.; Roth, Craig A.; and VerWeire, James R., 4,690,061, Cl. 102-401.000.

Verwijlen, Christiaan J. A.: *See*—
Ponjee, Johannes J.; and Verwijlen, Christiaan J. A., 4,639,382, Cl. 427-162.000.

Very Incredible Products, Inc.: *See—*
Jacobson, Jeff A.; and Lim, Walter K., 4,661,268, Cl. 252-8.800.

Verzar-Petri, Gisela: *See—*
Meszaros, Sandor; Verzar-Petri, Gisela; Nyiredy-Mikita, Klara; Tyihak, Erno; Nyiredy, Szabolcs; Meier, Beat; Sticher, Otto; and Dallenbach-Toelke, Karin, 4,678,570, Cl. 210-198.200.

Verzijl, Dirk: *See—*
Van Leeuwen, Willem A.; Poels, Eduard K.; Staal, Leendert H.; and Verzijl, Dirk, 4,665,048, Cl. 502-221.000.

Verzilli, Giovanni: *See—*
Lodispoto, Alberto, 4,681,114, Cl. 128-581.000.

Vesa, Pekka, Mass flow rate meter, 4,637,262, 1-20-87, Cl. 73-861.730.

Vesce, Richard V.; and Torres, John R., to United Technologies Corporation, High efficiency MOSFET sine wave generator, 4,649,467, 3-10-87, Cl. 363-41.000.

Vescia, Michele: *See—*
Fikentscher, Rolf; Heimann, Sigismund; Mertens, Heinrich; Schneider, Siegfried; and Vescia, Michele, 4,704,132, Cl. 8-189.000.

Vescial, Frederick, to Rockwell International Corporation, Ring laser gyro readout assembly simplification with adjustment capability, 4,676,643, 6-30-87, Cl. 356-350.000.

Vescio, Donald W.; and Latham, Daniel S., to R. E. Dietz Co. Shock resistant vehicular lamp, 4,703,400, 10-27-87, Cl. 362-80.000.

Veselka, Kenreth R., to Tymco, Inc. Adjustable single lock gutter broom mechanism, 4,691,402, 9-8-87, Cl. 15-87.000.

Vesely, Edward J.: *See—*
Harringer, Robert V.; Rada, Robert O.; and Vesely, Edward J., 4,681,208, Cl. 198-341.000.

Veser, Franz, Process for the winding of stators of electric motors, 4,633,575, 1-6-87, Cl. 29-596.000.

Veser, Franz, Coil insertion strip for stators of electric machines, 4,653,181, 3-31-87, Cl. 29-736.000.

Veser, Franz, Device for the installation of the coils into the stator of electrical machines, 4,683,650, 8-4-87, Cl. 29-736.000.

Vesey, David: *See—*
Yang, Mohshi; and Vesey, David, 4,654,295, Cl. 430-314.000.

Vesley, George F.; and Paulson, Alan H., to Minnesota Mining and Manufacturing Company, Microbubble-filled article such as a pressure-sensitive adhesive tape, 4,666,771, 5-19-87, Cl. 428-325.000.

Vesnaver, Galdino, Water aerating device, 4,710,324, 12-1-87, Cl. 261-30.000.

Vesperman, William C.: *See—*
Choi, Jae H.; Kanotz, William M.; and Vesperman, William C., 4,656,091, Cl. 428-383.000.
Choi, Jae H.; Kanotz, William M.; and Vesperman, William C., 4,705,823, Cl. 524-474.000.

Vespoli, Nancy P.: *See—*
Alberino, Louis M.; Pritchard, James R.; and Vespoli, Nancy P., 4,659,747, Cl. 521-159.000.

Vess, David J.: *See—*
Branigan, John T.; and Vess, David J., 4,712,110, Cl. 343-779.000.

Vessey, John R., to Excel Corporation, Conveyor roller with torque overload release means, 4,706,801, 11-17-87, Cl. 198-781.000.

Vessieres, Anne: *See—*
Jaouen, Gerard; Vessieres, Anne; and Top, Siden, 4,656,142, Cl. 436-501.000.

Vest, Gary W. Portable fluorescent light unit, 4,644,453, 2-17-87, Cl. 362-223.000.

Vest, Glenn E.: *See—*
Cooper, Charles E.; and Vest, Glenn E., 4,698,761, Cl. 364-424.000.
Seepe, John E.; and Vest, Glenn E., 4,665,319, Cl. 290-3.000.

Vesten AG: *See—*
Schlegel, Jurgen, 4,659,578, Cl. 426-418.000.

Vesterby, Hans, to Danmarks Geotekniske Institut, Method of causing sedimentation of sedimentary solid material transported in a body of water, such as a lake, a sea, or an ocean, 4,645,377, 2-24-87, Cl. 405-74.000.

Vestergaard, Godtfred, Plant for de-icing surfaces, 4,651,927, 3-24-87, Cl. 239-61.000.

Vestring, Arne: *See—*
Westerlund, Borje; and Vestring, Arne, 4,648,319, Cl. 102-202.120.

Vestuto, Russell: *See—*
Radek, John R.; Maks, Richard; and Vestuto, Russell, 4,674,231, Cl. 49-118.000.

Vesuvius International Corporation: *See—*
Francois-Noel, Richard, 4,687,186, Cl. 266-237.000.

Vetanen, William A.; Gleason, Kimberly R.; and Beers, Irene G., to Triquint Semiconductors, Inc. Source-side self-aligned gate process, 4,642,259, 2-10-87, Cl. 428-137.000.

Vetanen, William A.; Gleason, Kimberly R.; and Beers, Irene G., to Triquint Semiconductors, Inc. Self-aligned recessed gate process, 4,656,076, 4-7-87, Cl. 428-137.000.

Vetco Gray Inc: *See—*
Alandy, Jose M., 4,653,589, Cl. 166-382.000.
Alandy, Jose M., 4,653,778, Cl. 285-18.000.
Boyers, Charles L.; and Finlayson, John W., 4,659,530, Cl. 264-315.000.
Brammer, Norman, 4,702,481, Cl. 277-116.200.
Goris, Gregg A., 4,708,524, Cl. 405-169.000.

Vetco Gray Inc.: *See—*
Adamek, Frank C.; and Bridges, Charles D., 4,709,933, Cl. 277-167.500.
Brammer, Norman, 4,696,493, Cl. 285-3.000.
Brammer, Norman, 4,714,111, Cl. 166-182.000.
Fraser, Thomas A., Jr.; and Macfarlane, Andrew R., 4,693,636, Cl. 405-169.000.
Goris, Gregg A.; and Krasnov, Igor, 4,658,915, Cl. 175-57.000.
Goris, Gregg A.; Pettit, John R.; and Rhodes, Raymond L., 4,674,576, Cl. 166-382.000.
Jennings, Charles E.; and Thames, Edward E., 4,708,376, Cl. 285-315.000.
Lim, Jack S.; and Jones, Darrell L., 4,712,620, Cl. 166-355.000.
Morrison, Bertram L., 4,709,725, Cl. 137-614.040.
Nelson, John E.; and Smith, Raymond J., 4,700,924, Cl. 251-58.000.
Pallini, Joseph W., Jr.; and Milberger, Lionel J., 4,711,471, Cl. 285-81.000.
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Vetco Offshore, Inc.: *See—*
Baugh, Hollis A., 4,648,629, Cl. 285-26.000.
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Hughes, David W., 4,637,419, Cl. 137-236.100.
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Vetco Offshore Industries, Inc.: *See—*
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Veth, George J., to Food Automation-Service Techniques, Inc. Header assembly for deep fat frying cooking system, 4,644,931, 2-24-87, Cl. 126-21.00R.

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Vettari, Giancarlo, to Siemens Aktiengesellschaft, Electronic switch, 4,644,258, 2-17-87, Cl. 323-324.000.

Vetter, Egon: *See—*
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Vetter, Harald; and Schreiber, Friedewald, to Siemens Aktiengesellschaft, Electrical wound capacitor with reduced self-inductance, 4,672,507, 6-9-87, Cl. 361-329.000.

Vetter, Heinz, to Rohm GmbH, Method for making hollow multilayer multiple-wall synthetic resin panels, 4,707,393, 11-17-87, Cl. 428-178.000.

Vetter, Heinz: *See—*
Sioi, Werner; Arnold, Wolfgang; and Vetter, Heinz, 4,647,489, Cl. 428-119.000.

Vetter, Helmut, to Arzneimittel GmbH Apotheker Vetter & Co. Ravensburg, Automatic washer, especially for cleaning hands and sterilizing articles, 4,688,585, 8-25-87, Cl. 134-56.00R.

Vetter, Karl-Heinz: *See—*
Rohr, Gustav; and Vetter, Karl-Heinz, 4,707,643, Cl. 318-77.000.

Vetter, Manfred, Rubber pneumatic rectangular pad, 4,643,398, 2-17-87, Cl. 254-93.0HP.

Vetter, Robert W., Jr.: *See—*
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Vetter, Ulrich, to Schaudt Maschinenbau GmbH, Apparatus for optically monitoring the surface finish of ground workpieces, 4,693,038, 9-15-87, Cl. 51-165.720.

Vettsel, Rudolf N.: *See—*
Iofis, Naum A.; Vettsel, Rudolf N.; Bukatov, Alexandr S.; and Khurtsilava, Semen G., 4,713,071, Cl. 623-2.000.

Veuhoff, Heinz: *See—*
Heidenreich, Peter; Heinen, Karl-Heinz; Muller, Wolfgang; and Veuhoff, Heinz, 4,679,205, Cl. 373-84.000.

Veveris, Maris M.: *See—*
Bremanis, Gunar A.; Kalvinsh, Ivars Y.; Antsena, Irene B.; Lukevits, Edmund Y.; Veveris, Maris M.; Erenshtein, Marina L.; Mikazhan, Valdis D.; Kauss, Valeryans Y.; Liepinsh, Edvard E.; and Trapentsier, Petr T., 4,704,403, Cl. 514-554.000.

Veverka, Ken: *See—*
Miller, Randy; and Veverka, Ken, 4,663,854, Cl. 33-138.000.

VEW Vereinigte Elektrizitatswerke Westfalen AG: *See—*
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Veyhl Produktion KG: *See—*
Veyhl, Wolf; and Kubler, Erwin, 4,679,510, Cl. 108-152.000.

Veyhl, Wolf; and Kubler, Erwin, to Veyhl Produktion KG, Office desk, in particular for peripheral computer equipment, 4,679,510, 7-14-87, Cl. 108-152.000.

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Veyrat, Gilles, to Alcatel, Machine for leak testing parts by the "penetration" method, 4,663,963, 5-12-87, Cl. 73-45.000.

Veysset, Jean-Paul; Camp, Jean-Jacques; and Noel, Didier, to Electricite de France Service National, Process for eliminating deposits formed in a steam generator of a pressurized water nuclear reactor, 4,686,067, 8-11-87, Cl. 252-626.000.

Vezer, Szilard: *See—*
Kreidl, Janos; Turcsanyi, Peter; Aracs, Zsuzsanna; Stefko, Bela; Meszaros, Judit; Deutsch, Ida; Szilbereky, Jeno; Csizer, Eva; Vezer, Szilard; Bogsch, Erik; Bakos, Jozsef; Szotyori, Laszlo; and Heil, Balint, 4,710,323, Cl. 260-543.00R.

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Vezirian, Edward, Method for chemically structuralizing telescopic joints, 4,643,792, 2-17-87, Cl. 156-294.000.

Vezirian, Edward; and Hinton, Earle L., Vending package, 4,684,015, 8-4-87, Cl. 206-19.000.

Vezirian, Edward; and Hinton, Earle L. Vending package. 4,703,849, 11-3-87, Cl. 206-217.000.

Vezza, Thomas F., to Dresser Industries, Inc. Monolithic refractory composition. 4,639,474, 1-27-87, Cl. 523-141.000.

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VIAFRANCE and State of France as represented by the Ministry of Urban Planning, Housing and Transportation, Central Laboratory of Roads and Bridges: *See—*
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Vial, Christian: *See—*
Naef, Ferdinand; and Vial, Christian, 4,701,543, Cl. 549-458.000.

Vialaron, Andre ; Olalde, Gabriel; and Gauthier, Daniel, to Centre National de la Recherche Scientifique. Process and apparatus for thermolytically dissociating water. 4,696,809, 9-29-87, Cl. 423-579.000.

Viale, Daniel: *See—*
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Delgrange, Louis; and Vialettes, Francoise, 4,652,796, Cl. 315-169.400.

Viall, Wilton S., Jr., to Boeing Company, The. Tubing connector. 4,691,944, 9-8-87, Cl. 285-348.000.

Viallon, Paul P.: *See—*
Duforestel, Guy G.; Lechaczynski, Michel A.; Poiraud, Clement Y.; and Viallon, Paul P., 4,680,733, Cl. 364-900.000.

Viander, Heikki, to Tunturipyora Oy. Exercise treadmill for walking or running exercises. 4,664,371, 5-12-87, Cl. 272-69.000.

Vianello, Giorgio; and Soloni, Ugo, to Officina Meccanica della Stanga-O.M.S. S.p.A. Depressed floor turncage for articulated rail vehicles. 4,644,872, 2-24-87, Cl. 105-801.000.

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Viannay, Stephane G. J.; Roth, Bernard M.; Mirigay, Solange M. V.; and Chastang, Georges J. B., to Bertin & Cie. Spray-cooling apparatus. 4,711,431, 12-8-87, Cl. 266-114.000.

Vianova Kunstharz, A.G.: *See—*
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Honig, Helmut; and Pampouchidis, Georg, 4,652,353, Cl. 204-180.600.
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Paar, Willibald; Pampouchidis, Georg; and Honig, Helmut, 4,684,702, Cl. 525-528.000.
Paar, Willibald; Honel, Michael; and Gmoser, Johann, 4,711,934, Cl. 525-452.000.
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Viard, Alain: *See—*
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Vibrastop, Inc.: *See—*
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Vibro-Meter SA: *See—*
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Vibrosaun USA, Inc.: *See—*
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Vicari, John J.: *See—*
Ebbing, Steven J.; Hermans, Robert J.; Vicari, John J.; and Benedetz, Bruce D., 4,635,441, Cl. 60-450.000.

Vicari, Richard: *See—*
Narang, Subhash C.; Vicari, Richard; and Gu, Juesheng, 4,661,611, Cl. 556-418.000.
Okamoto, Yoshiyuki; and Vicari, Richard, 4,642,393, Cl. 568-734.000.

Vicenzi, Reno L.; and Ansite, William K., to Figgie International Inc. Self-contained portable single patient ventilator/resuscitator. 4,651,731, 3-24-87, Cl. 128-204.250.

Vichem Corporation: *See—*
Althouse, Victor E., 4,667,944, Cl. 269-21.000.
Althouse, Victor E., 4,711,014, Cl. 29-412.000.

Vichroski, Thomas J.: *See—*
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Vicik, Stephen J.: *See—*
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Lustig, Stanley; Schuetz, Jeffrey M.; and Vicik, Stephen J., 4,714,638, Cl. 428-35.000.

Vicinanza, Camillo; and Del Giudice, Felice, to Pillar Naco Industries (Europe) Srl. Louver system with adjustable slats, featuring removable modular slat clips. 4,643,081, 2-17-87, Cl. 98-114.000.

Vick, Henry L. Tailgate and dump body assembly. 4,699,428, 10-13-87, Cl. 298-23.0MD.

Vick, Ralph L., to Allied Corporation. High pressure pilot operated valve. 4,644,971, 2-24-87, Cl. 137-625.640.

Vickers, Edward C.: *See—*
Kelm, James S.; Maclin, Harvey M.; Vickers, Edward C.; and Wakeman, Thomas G., 4,679,400, Cl. 60-722.000.

Vickers, Incorporated: *See—*
El-Ibiary, Yehia M.; and Leemhuis, Richard S., 4,651,272, Cl. 364-176.000.
Gunda, Rajamouli; and Rode, Melvin A., 4,643,074, Cl. 91-361.000.
Leemhuis, Richard S., 4,714,005, Cl. 91-361.000.
Stephan, Robert W., 4,662,046, Cl. 29-156.40R.
Taplin, Lael B., 4,695,230, Cl. 417-218.000.
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Walters, Ronald B., 4,667,571, Cl. 91-445.000.

Vickers, Ken M. Combination soap and fish bait. 4,710,385, 12-1-87, Cl. 426-1.000.

Vickers, Margaret R.: *See—*
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Vickers Public Limited Company: *See—*
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May, Eric R., 4,643,642, Cl. 416-90.00A.
Milne, Alistair R.; and Davison, Grenville, 4,638,713, Cl. 89-14.100.
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Vickers, Robert V.; and Sachtjen, Peter D., to Tocco, Inc. Method of heat treating valve inserts. 4,643,781, 2-17-87, Cl. 148-127.000.

Vickers, Robert V., to Tocco, Inc. Valve seat inductor and method of using same. 4,673,784, 6-16-87, Cl. 219-10.570.

Vickers, Robert V.: *See—*
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Vickers Shipbuilding & Engineering Limited: *See—*
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Vickers, Stanley E.: *See—*
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Vickers Systems GmbH: *See—*
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Vickers Xatal Pty. Ltd.: *See—*
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Vickery, Andrew J.: *See—*
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Vickery, Brian: *See—*
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Vickery, Brian H.: *See—*
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Nestor, John J., Jr.; and Vickery, Brian H., 4,667,014, Cl. 530-313.000.

Vickery, Earl; and Yates, Mark, to American Hoechst Corporation. Turbulent incineration of combustible materials supplied in low pressure laminar flow. 4,661,056, 4-28-87, Cl. 431-5.000.

Vicon Industries, Inc.: *See—*
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Victaulic Company of America: *See—*
De Raymond, Peter G., 4,678,208, Cl. 285-112.000.
deRaymond, Peter G.; and Rung, Robert, 4,702,499, Cl. 285-112.000.
McLennan, William R.; Piccotti, Albert J.; and Rung, Robert, 4,699,217, Cl. 169-37.000.
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Rung, Robert; and Ache, Lani G., 4,639,020, Cl. 285-367.000.
Rung, Robert; and Schwarz, Philip R., 4,643,224, Cl. 137-559.000.
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Victaulic Company PLC, The: *See—*
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Hikawa, Kazuo, 4,672,329, Cl. 331-1.00A.
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Hirota, Akira; and Tsuruta, Masahiko, 4,639,805, Cl. 360-108.000.
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Hishiki, Hideo; and Onodera, Shunji, 4,635,176, Cl. 363-21.000.
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Kato, Hiroshi; and Kubota, Hiromitsu, 4,636,887, Cl. 360-85.000.
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Kato, Shigeru; Osada, Naomi; Ichitoh, Toshikatsu; Murata, Masae; and Mochizuki, Masfumi, 4,641,151, Cl. 346-76.0PH.
Kawade, Hideji; Takahashi, Hideaki; Sato, Yoshiyuki; and Urayama, Yuji, 4,640,990, Cl. 379-77.000.
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Kimura, Akihiro; Ando, Toshio; Nishihara, Toshikazu; and Kato, Toshio, 4,664,976, Cl. 428-336.000.
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Moriizumi, Hirokazu; Horiguchi, Akira; and Sasaki, Isao, 4,707,403, Cl. 428-328.000.
Moriyama, Masaru, 4,644,417, Cl. 360-26.000.
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Mukai, Yasuo; Takasawa, Yosuke; Shimizu, Masanobu; and Shinohara, Shunya, 4,689,269, Cl. 428-413.000.
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Namiki, Yasuomi; and Arai, Koji, 4,672,469, Cl. 358-312.000.
Namiki, Yasuomi; and Kawasaki, Satoshi, 4,673,991, Cl. 360-14.100.
Namiki, Yasuomi, 4,700,242, Cl. 360-68.000.
Namiki, Yasuomi, 4,704,642, Cl. 360-64.000.
Nishimoto, Naomichi; Hirota, Akira; and Kosaka, Yoshiteru, 4,644,412, Cl. 358-335.000.
Nishimoto, Naomichi, 4,692,814, Cl. 358-320.000.
Niwa, Kazuhiro; Tsunekawa, Masaharu; and Nei, Atsushi, 4,652,955, Cl. 360-121.000.
Ogawa, Kimio, 4,688,126, Cl. 360-130.240.
Ohira, Tsunehisa; Hirano, Shinji; and Sadakane, Koji, 4,642,713, Cl. 360-85.000.
Ojima, Kumiko; Naruse, Tsunehide; and Matsumoto, Yukio, 4,645,724, Cl. 428-695.000.
Ota, Yoshihiko, 4,647,983, Cl. 358-310.000.
Ozaki, Hidetoshi, 4,652,922, Cl. 358-167.000.
Ozaki, Hidetoshi, 4,709,269, Cl. 358-167.000.
Sakai, Kunihide, 4,639,810, Cl. 360-125.000.
Sakamoto, Atsushi; and Iwahara, Makoto, 4,703,506, Cl. 381-92.000.
Sasamura, Kohei; and Tokumitsu, Junsuke, 4,635,134, Cl. 358-312.000.
Sasamura, Kohei, 4,647,990, Cl. 360-70.000.
Sawada, Shigeru; and Utsumi, Yoichi, 4,670,790, Cl. 358-188.000.
Segawa, Keiji; Imaoka, Hirofumi; Kinjo, Hisao; and Sakurai, Toshiya, 4,675,765, Cl. 360-122.000.
Sekiya, Satoshi; Matsumoto, Ikuo; and Fujiki, Kuniharu, 4,671,995, Cl. 428-336.000.
Sekiya, Satoshi; Matsumoto, Ikuo; and Fujiki, Kuniharu, 4,708,906, Cl. 428-336.000.
Shibata, Norio, 4,703,381, Cl. 360-123.000.
Shibata, Yasuo; Takehara, Hideaki; and Miyajima, Shin, 4,704,326, Cl. 428-336.000.
Shibuya, Kazunori, 4,680,654, Cl. 360-96.500.
Shichijo, Shunichi; Yamagishi, Tooru; and Machida, Toyotaka, 4,656,528, Cl. 358-342.000.
Shimizu, Kyoichi; and Fujita, Akira, 4,649,438, Cl. 358-337.000.
Shinya, Tadao, 4,677,493, Cl. 358-283.000.
Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Kobayashi, Yoshinao; Ishii, Kazuyoshi; and Hirata, Atsumi, 4,695,904, Cl. 358-342.000.
Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Ishii, Kazuyoshi; Kobayashi, Yoshinao; and Hirata, Atsumi, 4,707,733, Cl. 358-342.000.
Suganuma, Atsushi, 4,672,274, Cl. 318-254.000.
Sugiyama, Hiroyuki; Sakurai, Masaki; Abe, Ryozo; Yoshihara, Kenji; and Haneji, Yasuo, 4,638,376, Cl. 358-342.000.
Sugiyama, Hiroyuki, 4,641,204, Cl. 358-341.000.
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; Ueno, Shoji; Komura, Makoto; and Shichijo, Shunichi, 4,660,099, Cl. 358-342.000.
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,660,100, Cl. 358-342.000.
Sugiyama, Hiroyuki; Komura, Makoto; Masuda, Isao; Nishikawa, Kazunori; and Iwasaki, Yoshiki, 4,667,318, Cl. 369-59.000.
Sugiyama, Hiroyuki, 4,672,472, Cl. 358-341.000.
Sugiyama, Hiroyuki, 4,672,473, Cl. 358-341.000.
Sugiyama, Hiroyuki; Takahashi, Nobuaki; Shibamoto, Takeshi; Nishikawa, Kazunori; and Komura, Makoto, 4,692,816, Cl. 358-342.000.
Sugiyama, Hiroyuki, 4,697,257, Cl. 369-43.000.
Suzuki, Kiyoaki; Iwahara, Makoto; Suzuki, Hidetsugu; and Sakamoto, Atsushi, 4,672,434, Cl. 358-88.000.
Tajima, Osamu; and Ito, Shigehiro, 4,674,070, Cl. 369-46.000.
Takanashi, Itsuo; Miyoshi, Tadayoshi; Nakagaki, Shintaro; and Nishiyama, Hiroshi, 4,642,677, Cl. 358-43.000.
Takanashi, Itsuo; Nakagaki, Shintaro; Ichimura, Hiroshi; and Kuriyama, Takashi, 4,691,227, Cl. 358-47.000.
Takenouchi, Junji, 4,704,644, Cl. 360-85.000.
Tanaka, Hidenori, 4,649,439, Cl. 360-10.300.
Tanaka, Hidenori, 4,694,340, Cl. 358-154.000.

Tanaka, Hidenori, 4,706,137, Cl. 360-64.000.
Tanaka, Hideshi, 4,652,892, Cl. 346-76.0PH.
Tanaka, Hideshi, 4,704,615, Cl. 346-76.0PH.
Tanaka, Yoshiaki; Inami, Mamoru; and Otsuki, Zenju, 4,665,494, Cl. 364-485.000.
Tokuyama, Yoshio, 4,680,649, Cl. 360-14.200.
Tokuyama, Yoshio, 4,688,114, Cl. 360-70.000.
Tsushima, Takuya, 4,649,427, Cl. 358-160.000.
Tsushima, Takuya, 4,658,305, Cl. 358-327.000.
Tsushima, Takuya, 4,677,498, Cl. 358-310.000.
Uchimi, Takashi, 4,635,140, Cl. 360-40.000.
Uchimi, Takashi, 4,656,527, Cl. 358-320.000.
Umeda, Hiroyuki, 4,652,948, Cl. 360-95.000.
Wakui, Yoshiaki; and Umeda, Hiroyuki, 4,669,021, Cl. 360-132.000.
Yamada, Yasuhiro, 4,644,416, Cl. 360-17.000.
Yamagishi, Tooru, 4,683,571, Cl. 371-37.000.
Yashiro, Tsutomu; Kurihara, Mutsumu; and Togashi, Hiroshi, 4,699,840, Cl. 428-328.000.
Yoshitake, Yuji; Yokouchi, Kentaro; and Yoshikawa, Hiroyoshi, 4,638,374, Cl. 358-336.000.

Victor Equipment Company: *See—*
Zwicker, Roger D., 4,679,582, Cl. 137-71.000.

Victor Hasselblad AB: *See—*
Alfredsson, Alf I., 4,673,271, Cl. 354-152.000.
Alfredsson, Alf I.; and Persson, Kjell A., 4,693,579, Cl. 354-173.100.
Hillstrom, Kennert; and Stalfors, Lennart, 4,676,615, Cl. 353-101.000.

Victor, James G.: *See—*
Melpolder, Frank W.; and Victor, James G., 4,699,885, Cl. 436-39.000.

Victor, Karl-Heinz: *See—*
Heinrich, Juergen; Krauth, Axel; Victor, Karl-Heinz; and Pecken, Heinz, 4,714,257, Cl. 277-1.000.

Victor, Karl J.: *See—*
Hellnick, Dieter; Victor, Karl J.; and Otten, Gregory K., 4,708,038, Cl. 82-1.00C.

Victor, Lyle D. Device for inserting a catheter within the intercostal space. 4,636,199, 1-13-87, Cl. 604-164.000.

Victor, Paul F., to Boeing Company, The. Wing trailing edge air dam. 4,712,752, 12-15-87, Cl. 244-129.100.

Victor Stanley, Inc.: *See—*
Skalka, Gerald P., 4,682,772, Cl. 272-113.000.

Victor, William E., to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Personal webbing. 4,676,419, 6-30-87, Cl. 224-252.000.

Victoria University of Manchester, The: *See—*
Coles, Harry J.; and Simon, Richard, 4,702,558, Cl. 350-330.000.
Hambleton, Roger, 4,699,765, Cl. 422-57.000.
Turner, John T.; and Christodoulou, Marios, 4,642,185, Cl. 210-242.300.

Victory Engineering Corp.: *See—*
Winters, Arthur; and Molee, Casper S., 4,681,122, Cl. 128-736.000.

Vida, Laszlo : *See—*
Tompa, Ildiko F.; Nagy, Attila; Tyihak, Erno; Nyiredy, Szabolcs; Petri, Gizella V.; Meszaros, Sandor; Szepesy, Laszlo; Vida, Laszlo ; Mincsovics, Emil; Kemeny, Gabor; and Baranyi, Piroska, 4,671,870, Cl. 210-149.000.

Vida-Weld Pty. Limited: *See—*
Sare, Ian R.; Henderson, Ian D.; Heijkoop, Teunis; Bosworth, Michael R.; Aspin, Ronald E.; and Arnold, Brian K., 4,635,701, Cl. 164-102.000.

Vidakovits, Lajos J., to Raychem Corp. Heat recoverable termination device. 4,696,841, 9-29-87, Cl. 428-36.000.

Vidal, Daniel I. G. Captive flight device. 4,688,787, 8-25-87, Cl. 272-31.00A.

Vidal, Henri; and Weinreb, Daniel, to Vidal, Henri. Metal strip for use in stabilized earth structures. 4,710,062, 12-1-87, Cl. 405-262.000.

Vidal, Jean; Malaubier, Francois; and Mevel, Jean-Claude, to Stein Industrie. Ignition and combustion supporting burner for pulverized solid fossil fuel and combustion chamber comprising same. 4,690,075, 9-1-87, Cl. 110-264.000.

Vidal, Jean C.: *See—*
Vannier, Serge; Garotta, Robert; Lozes, Andre; and Vidal, Jean C., 4,636,956, Cl. 364-421.000.

Vidal, Jean-Charles: *See—*
Chiron, Guy; and Vidal, Jean-Charles, 4,649,349, Cl. 324-346.000.

Vidal, Jean E.; and Serio, Andre L., to Compagnie Francaise des Petroles. Coastal installation for loading or unloading liquid at cryogenic temperature. 4,671,704, 6-9-87, Cl. 405-195.000.

Vidal, Jean L.: *See—*
Morterol, Frederic; and Vidal, Jean L., 4,642,328, Cl. 526-125.000.

Vidal, Stella M. Web-type stock material with upwardly projecting filamentary elements and defined periphery. 4,671,976, 6-9-87, Cl. 428-40.000.

Vidaver, Anne K.: *See—*
Vandenbergh, Peter A.; and Vidaver, Anne K., 4,678,750, Cl. 435-200.000.

Videc, Mathias F.: *See—*
Scholten, Gerard J.; Beurskens, Theodorus J. G.; and Videc, Mathias F., 4,683,654, Cl. 29-832.000.

Videlock, Gary B.: *See—*
Kabb, Harold L.; Flint, John R.; Videlock, Gary B.; Niazi, Ishfaq A.; Hendrickson, Kenneth L.; Slutsky, Gary S.; Schwalb, Stuart F.; Carroll, John J.; and Friedrich, Paul H., 4,699,504, Cl. 355-20.000.

Video-Proof AB: *See—*
Andreasson, Kurt, 4,682,249, Cl. 360-33.100.

Videocolor: *See—*
De Paolis, Cesare; Giannantonio, Guiseppe; and Pons, Claude, 4,636,694, Cl. 315-368.000.
Fonda, Carl L., 4,659,959, Cl. 313-407.000.
Fonda, Carlo L., 4,638,211, Cl. 313-405.000.
Fonda, Carlo L., 4,678,963, Cl. 313-405.000.
Giudici, Giuliano, 4,668,203, Cl. 445-6.000.
Giudici, Giuliano, 4,687,454, Cl. 445-5.000.
Legrand, Guy; and Faivre, Michel, 4,635,095, Cl. 358-10.000.
Pieri, Roger; and Fringant, Jean C., 4,709,191, Cl. 315-370.000.
Poncet, Bernard, 4,714,497, Cl. 148-6.350.
Pons, Claude, 4,638,219, Cl. 315-368.000.
Pons, Claude, 4,641,062, Cl. 315-368.000.
Rousseau, Jean; and Fourche, Jean P., 4,637,803, Cl. 445-23.000.
Roussel, Bruno, 4,700,164, Cl. 335-210.000.
Testa, Pierluigi, 4,707,093, Cl. 354-1.000.

Videojet Systems International, Inc.: *See—*
Eremity, Frank, 4,636,809, Cl. 346-75.000.
Stone, Joseph J.; and Sutter, Leroy V., Jr., 4,652,722, Cl. 219-121.0LS.

Vidondo, Felix G., to Jofemar, S.A. Automatic unitary product dispensing device. 4,715,514, 12-29-87, Cl. 221-258.000.

Vidoni, Werner. Screen printing apparatus using partially saturated solvent inking atmosphere. 4,637,308, 1-20-87, Cl. 101-114.000.

Vidriera Monterrey, S.A.: *See—*
Cantu-Garcia, Rolando; and Marroquin-Garza, Elio, 4,668,269, Cl. 65-68.000.
Giberti-Fornaciari, Serse, 4,710,218, Cl. 65-260.000.

Vidt, Edward J.: *See—*
Archer, David H.; Bauer, Frank L.; and Vidt, Edward J., 4,638,629, Cl. 60-39.050.
Archer, David H.; Hamm, James R.; and Vidt, Edward J., 4,667,467, Cl. 60-39.020.

Viduetra, Jose A.: *See—*
Forte, Paulino; and Viduetra, Jose A., 4,664,786, Cl. 208-356.000.
Forte, Paulino; and Viduetra, Jose A., 4,690,733, Cl. 203-21.000.
Forte, Paulino; and Viduetra, Jose A., 4,693,810, Cl. 208-321.000.

Vidugiris, Bronis: *See—*
Kurtzman, Gary; Heck, Joseph P.; Hansen, Kenneth A.; Enderby, Ralph; and Vidugiris, Bronis, 4,714,899, Cl. 331-1.00A.

Vidusek, Daniel A.: *See—*
O'Brien, Edward J.; Emory, Lyle; and Vidusek, Daniel A., 4,664,314, Cl. 239-469.000.

Vieau, Robert G.; and Klempke, William D., to Loram Maintenance of Way, Inc. Grinding head assembly. 4,693,039, 9-15-87, Cl. 51-168.000.

Viegas, Herman H., to Thermo King Corporation. Flow and pressure control valve system. 4,635,671, 1-13-87, Cl. 137-102.000.

Viegas, Steven F.; Tencer, Allan F.; Woodard, Peggy; and Gaynor, Sue, to Board of Regents, The University of Texas System. Method and brace to immobilize fractures. 4,662,364, 5-5-87, Cl. 128-87.00R.

Viegener, Rodolfo J.: *See—*
Denham, Willard A.; Lagarelli, Carmen J.; and Viegener, Rodolfo J., 4,651,770, Cl. 137-270.000.

Viegers, Mathias P. A.: *See—*
Hornstra, Jan; and Viegers, Mathias P. A., 4,649,557, Cl. 378-84.000.

Viehe, Heinz G.: *See—*
Roberfroid, Marcel B.; Viehe, Heinz G.; and Hervens, Francoise M., 4,673,690, Cl. 514-563.000.

Viehmann, Werner; and Engert, Bernd, to Preussag Aktiengesellschaft. Threaded or push-type coupling. 4,688,831, 8-25-87, Cl. 285-137.100.

Viehrig, Wolfgang; Wagner, Karl-Heinz; and Laar, Erwin, to Agfa-Gevaert Aktiengesellschaft. Apparatus for treatment of webs of photographic material. 4,638,936, 1-27-87, Cl. 226-191.000.

Vieilledent, Gerard, to U.S. Philips Corporation. Method of manufacturing an electronic identification card. 4,701,236, 10-20-87, Cl. 156-252.000.

Viel, Georges: *See—*
Bezer, Christian; Olombel, Andre; and Viel, Georges, 4,634,873, Cl. 250-497.100.

Vieland, Leon J.: *See—*
Stewart, Wilber C.; and Vieland, Leon J., 4,672,262, Cl. 313-422.000.

Viennatone Gesellschaft m.b.H.: *See—*
Hardt, Heinz, 4,657,106, Cl. 381-68.400.

Vier, Fritz; Schulenburg, Michael; and Wiese, Dietrich, to Henkel Kommanditgesellschaft auf Aktien. Nitrogen oxide reduction in furnaces. 4,699,071, 10-13-87, Cl. 110-345.000.

Viera, William E. Video camera surveillance system. 4,654,703, 3-31-87, Cl. 358-108.000.

Viereck, Hans: *See—*
Hamilton, Douglas D.; Palfy, Robert M.; and Viereck, Hans, 4,690,185, Cl. 144-34.00R.

Viergever, Robert A.: *See—*
Van Den Berg, Frans J.; and Viergever, Robert A., 4,708,563, Cl. 414-22.000.

Vierkotter, Peter, to Henkel Kommanditgesellschaft auf Aktien. Dispenser for a two-component adhesive. 4,637,746, 1-20-87, Cl. 401-82.000.

Vierling, Donald E. Method of producing steam. 4,644,905, 2-24-87, Cl. 122-31.00A.

Vierling, Karl-Heinz: *See—*
Karning, Heinrich; Prein, Franz; and Vierling, Karl-Heinz, 4,677,637, Cl. 372-83.000.

Vierrath, Helmut: *See*—
Schuster, Gert; Vierrath, Helmut; Kupfer, Hans; and Wolf, Heinz. 4,643,739, Cl. 48-86.00R.

Viers, Karen A. Breast pump. 4,705,504, 11-10-87, Cl. 604-75.000.

Viertel, Lothar; and Kaiser, Klaus-Peter, to Gebr. Happich GmbH. Sun visor for vehicles. 4,683,522, 7-28-87, Cl. 362-135.000.

Viertel, Lothar: *See*—
Ebert, Charles; Delcroix, Jean L.; Majchrzak, Roland; and Viertel, Lothar. 4,702,513, Cl. 296-97.00H.
Ebert, Charles; Krehl, Hermann; Viertel, Lothar; Hilbert, Bernard; and Walter, Rudiger. 4,707,019, Cl. 296-97.00K.

Vierthaler, Joseph W., Jr.: *See*—
Gore, Charles E.; and Vierthaler, Joseph W., Jr., 4,669,243, Cl. 52-696.000.

Viertl, John R. M.; and Auger, Mederic E., to General Electric Company. High frequency eddy current probe with planar, spiral-like coil on flexible substrate for detecting flaws in semi-conductive material. 4,706,020, 11-10-87, Cl. 324-238.000.

Viess, Walter: *See*—
Bontz, Jorg; Entenmann, Robert; Miller, Bernhard; Rauch, Hans; Rohde, Siegfried; Unland, Stefan; and Viess, Walter. 4,700,677, Cl. 123-425.000.

Viessmann, Hans. Atmospheric gas burner assembly. 4,652,236, 3-24-87, Cl. 431-350.000.

Vieth, Friedhelm: *See*—
Klose, Sigmar; Pasch, Manfred; Schlumberger, Helmut; Kleemann, Wolfgang; and Vieth, Friedhelm. 4,690,899, Cl. 436-45.000.

Vieth, Michael, to Siemens Aktiengesellschaft. Arrangement for the production of X-ray pictures by computer radiography. 4,703,177, 10-27-87, Cl. 250-327.200.

Vieth, Walter: *See*—
Hager, Juergen; Vieth, Walter; and Manderla, Werner. 4,638,697, Cl. 83-356.300.

Vietrogoski, Charles J.; Obarowski, Richard; and McDonough, Paul J., to General Foods Corporation. Apparatus for securely holding a loaf food product during slicing. 4,709,608, 12-1-87, Cl. 83-355.000.

Vietto, Paolo; and Martini, Francesco, to W. R. Grace & Co., Cryovac Div. Silent film for ostomy pouches. 4,687,711, 8-18-87, Cl. 428-515.000.

Vietzke, Horst: *See*—
Arntzen, Paul; Pirk, Hans; Vietzke, Horst; and Wingender, Hans. 4,650,518, Cl. 420-3.000.

View Engineering, Inc.: *See*—
Freer, Edgar P., 4,658,633, Cl. 73-37.500.
Weisner, Ralph M., 4,706,168, Cl. 362-18.000.

Vig, John R., to United States of America, Army. Method of making a resonator having a desired frequency from a quartz crystal resonator plate. 4,638,536, 1-27-87, Cl. 29-25.350.

Vigano', Luigi: *See*—
Gazzaniga, Annibale; Gianesello, Valter; Stroppolo, Federico; and Vigano', Luigi, 4,689,218, Cl. 424-43.000.

Vigede, Thure, to Proca Consulting AB. Method for taking body measurement and apparatus for performing the method as well as a system for taking body measurement and producing garments. 4,635,367, 1-13-87, Cl. 33-15.000.

Vigg, Peter, to AMF Incorporated. Process for the production of a smoking material from cigarette maker winnowings and apparatus. 4,672,982, 6-16-87, Cl. 131-290.000.

Viggiano, Donato A. Artificially vascularized graft. 4,713,055, 12-15-87, Cl. 604-93.000.

Viggiano, Frank, to FMR Corporation. Bedding retainer. 4,712,262, 12-15-87, Cl. 5-508.000.

Viggo AB: *See*—
Larsson, Nils E.; and Stenberg, Kaj O., 4,666,427, Cl. 604-51.000.

Vigilante, John J.: *See*—
Scalamandre, Joseph; and Vigilante, John J., 4,678,156, Cl. 249-34.000.

Vigilante, Michael L.: *See*—
Scalamandre, Joseph; and Vigilante, John J., 4,678,156, Cl. 249-34.000.

Vigliani, Umberto, to Officina Meccanica della Stanga O.M.S. S.p.A. Articulation system for articulated depressed-floor tramway carriages. 4,697,526, 10-6-87, Cl. 105-3.000.

Vigmond, Stephen: *See*—
Ippolito, Robert M.; and Vigmond, Stephen, 4,681,944, Cl. 546-340.000.

Vigna, Giuseppe; and Spadarotto, Piercarlo, to Fiat Auto S.p.A. External rear-view mirror for motor vehicles. 4,651,965, 3-24-87, Cl. 248-483.000.

Vigneau, David L. Radiant gas burner. 4,666,400, 5-19-87, Cl. 431-328.000.

Vigneau, Jean L.; and Trenque, Pierre, to Duffour et Igon S.A. (D.I.). Gas heating process and apparatus. 4,693,235, 9-15-87, Cl. 126-263.000.

Vigneau, Jean-Louis; Trenque, Pierre; and Rivoire, Bruno, to Duffour et Igon S.A. (D.I.). Fluid distribution connector, in particular for hospitals. 4,683,905, 8-4-87, Cl. 137-329.100.

Vigneron, Gerard G.; and Brule, Jean C. R. Method of and apparatus for the cutting of windows in mats. 4,641,556, 2-10-87, Cl. 83-36.000.

Vigneron, Jean-Pierre: *See*—
Frank-Neumann, Michel; Sedrati, Madjid; Vigneron, Jean-Pierre; and Bloy, Vincente, 4,677,218, Cl. 558-243.000.

Vignocchi, Harry J. Revetment system for preventing bluff erosion. 4,655,637, 4-7-87, Cl. 405-17.000.

Vignola, Andrew M., Sr.: *See*—
Grant, David J.; and Vignola, Andrew M., Sr., 4,694,397, Cl. 364-408.000.

Vignon, Louis, to Heberlein Hispano S.A. Twist generator for a running fiber aggregate. 4,633,663, 1-6-87, Cl. 57-340.000.

Vignon, Louis, to Heberlein Hispano S.A. Apparatus for the production of wrapped yarn. 4,658,574, 4-21-87, Cl. 57-5.000.

Vignotto, Angelo: *See*—
Bermond, Gabriele; and Vignotto, Angelo, 4,697,936, Cl. 384-484.000.
Colanzi, Franco; and Vignotto, Angelo, 4,669,895, Cl. 384-477.000.
Colanzi, Franco; Vignotto, Angelo; and Bessone, Mario, 4,674,755, Cl. 277-23.000.

Vigo, Tyrone L.; and Blanchard, Eugene J., to United States of America, Agriculture. Arlysulfonium cellulosic fibers substantive to many dye classes. 4,678,473, 7-7-87, Cl. 8-480.000.

Vigorobics Invigorating Machine, Inc.: *See*—
Graham, Ralph E.; and Zambory, Tyler T., 4,670,919, Cl. 4-541.000.

Viherkoski, Esa: *See*—
Peyman, Gholam; and Viherkoski, Esa, 4,633,866, Cl. 128-303.100.

Vihtonen, Kimmo: *See*—
Tormala, Pertti; Rokkanen, Pentti; Kilpikari, Jyrki; Patiala, Hannu; Vainionpaa, Seppo; Vihtonen, Kimmo; and Mero, Matti, 4,655,203, Cl. 128-92.0YP.

Viitala, Daniel W., to Baxter Travenol Laboratories, Inc. Venous reservoir. 4,643,713, 2-17-87, Cl. 604-4.000.

Viitanen, Olavi: *See*—
Kerttula, Reima; and Viitanen, Olavi, 4,684,443, Cl. 162-255.000.

Vij, Jitender K.; Yanosy, John A., Jr.; and Gerety, Eugene P., to ITT Corporation. Communication subsystem. 4,653,047, 3-24-87, Cl. 370-58.000.

Vijan, Meera; McGill, John C.; and Day, Paul N., to Ovonic Imaging Systems, Inc. Method of forming thin film semiconductor devices. 4,680,085, 7-14-87, Cl. 156-643.000.

Vijan, Meera, to Energy Conversion Devices, Inc. Method of forming a large surface area integrated circuit. 4,696,885, 9-29-87, Cl. 430-311.000.

Vijan, Meera: *See*—
Baron, Yair; and Vijan, Meera, 4,653,864, Cl. 350-344.000.

Vijayalakshmi, Mookambeswaran A.; and Rajgopal, Sunanda, to Centre National de la Recherche Scientifique. New elution complex more especially for affinity chromatography and affinity precipitation. 4,666,604, 5-19-87, Cl. 210-542.000.

Vikar nee Petho , Hajnalka: *See*—
Ezer, Elemer; Harsanyi, Kalman; Vikar nee Petho , Hajnalka; Matuz, Judit; Szporny, Laszlo ; Cholnoky, Eszter; Kuthi, Csaba; Trischler, Ferenc; Hegedus, Bela; Kapolnas nee Pap, Marta; and Kallay nee Sohonyai, Anna, 4,691,017, Cl. 546-298.000.

Vikesland, John P.: *See*—
Koelsch, Peter M.; and Vikesland, John P., 4,672,020, Cl. 430-166.000.

Vikhert, Anatoly M.: *See*—
Babaian, Eduard A.; Gerasimova, Galina A.; Davydov, Anatoly B.; Utyamyshev, Rustam I.; Khromov, Gennady L.; Metelitsa, Vladimir I.; Vikhert, Anatoly M.; Savvateev, Konstantin L.; Piotrovsky, Vladimir K.; and Novikova, Elizaveta B., 4,713,239, Cl. 424-81.000.

Viking Container Company: *See*—
Keady, Peter; and Magennis, Thomas P., 4,709,817, Cl. 206-523.000.

Vikio, Pentti, to Enso-Gutzeit Oy. Means for clearing the blocked reject end of a vortex purifier. 4,671,878, 6-9-87, Cl. 210-512.300.

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Kuhasalo, Antti; and Vikio, Pentti, 4,657,678, Cl. 210-512.200.

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Gainsley, James D.; Vikre, David M.; Larsen, Jack E.; Hursh, William F.; and Carlson, David L., 4,671,289, Cl. 128-660.000.

Vikterlof, Karl-Johan; and Palsgard, Gote. Means for registering coordinates. 4,679,076, 7-7-87, Cl. 358-107.000.

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Vila Masot, Oscar. Circuit breaker indicator. 4,652,867, 3-24-87, Cl. 340-638.000.

Vila Masot, Oscar. Circuit breaker panels with alarm system. 4,706,073, 11-10-87, Cl. 340-639.000.

Vilain, Robert, to Spie-Batignolles. Process and arrangement for installing a pipeline in an underwater environment and pipeline thus produced. 4,704,049, 11-3-87, Cl. 405-171.000.

Vilcek, Jan: *See*—
Chang, Tse W.; Kung, Patrick C.; Le, Junming; Liu, Victor; and Vilcek, Jan, 4,666,865, Cl. 436-518.000.

Vileda GmbH, Firma: *See*—
Perez, Antonio C., 4,697,949, Cl. 403-361.000.

Vilensky, Boris I.: *See*—
Gik, Lev A.; and Vilensky, Boris I., 4,663,891, Cl. 51-288.000.

Viles, Joseph M.; and Hart, Paul V. Liver assist device employing transformed cell lines. 4,675,002, 6-23-87, Cl. 604-5.000.

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Vilhelmsson, Kennet, to Radians AB. High power optical fiber with improved covering. 4,678,273, 7-7-87, Cl. 350-96.300.

Vilimek, Vaclav F., to Texas Instruments Incorporated. Sensor responding to the action of a force. 4,641,539, 2-10-87, Cl. 73-862.670.

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Villa, Carlo; Vecchiolino, Alvise P. G.; and Mangia, Alberto, to Pierral S.p.A. Process for the total or partial elimination of aspartic acid and glutamic acid from protein hydrolyzates and mixtures of aminoacids, and aminoacid compositions therefrom. 4,675,196, 6-23-87, Cl. 426-271.000.
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Villa, Flavio; Murari, Bruno; Bertotti, Franco; Torazzina, Aldo; and Stefani, Fabrizio, to SGS Microelettronica S.p.A. Power transistor with spaced subtransistors having individual collectors. 4,682,197, 7-21-87, Cl. 357-36.000.
Villa, Flavio: *See*—
Bertotti, Franco; Ferrari, Paolo; Silvestri, Luigi; and Villa, Flavio, 4,663,647, Cl. 357-51.000.
Villa, Gino; Johnson, John R.; and Hale, Alan A., to General Electric Company. Cutting tool. 4,668,132, 5-26-87, Cl. 407-117.000.
Villa, Giovanni: *See*—
Giordano, Claudio; Villa, Giovanni; Uggeri, Fulvio; and Castaldi, Graziano, 4,675,418, Cl. 549-79.000.
Villa, Jose L.: *See*—
Bardoliwalla, Dinshaw F.; and Villa, Jose L., 4,647,384, Cl. 252-8.510.
Lipowski, Stanley A.; Villa, Jose L.; Miskel, John J., Jr.; and Grinstein, Reuben H., 4,634,451, Cl. 44-51.000.
Savoly, Arpad; Villa, Jose L.; Garvey, Christopher M.; and Resnick, Albert L., 4,674,574, Cl. 166-29.000.
Villain, Charles: *See*—
Le Houerou, Gilbert; Bouchez, Guy; Preynat, Pierre; and Villain, Charles, 4,646,433, Cl. 29-755.000.
Villain, Jean-Marie; and Fremaux, Jacques, to Saint-Gobain Vitrage. Apparatus and method for depositing a metal oxide coating on a glass substrate. 4,692,180, 9-8-87, Cl. 65-32.000.
Villalobos, Joseph A., to Thermo Electron Web Systems, Inc. Air sealing nozzle for high speed dryer. 4,665,631, 5-19-87, Cl. 34-114.000.
Villalobos, Luis; Hirsch, Steven B.; Hauser, Steven G.; and von Buelow, John, to Secure Keyboards Limited. Unitary key panel. 4,644,326, 2-17-87, Cl. 340-365.00R.
Villalon, Yannick: *See*—
Ferre, Alain; and Villalon, Yannick, 4,707,738, Cl. 358-135.000.
Villamagna, Fortunato; and Bampfield, Howard A., to C-I-L Inc. Explosive booster composition. 4,689,096, 8-25-87, Cl. 149-2.000.
Villamizar, William J.: *See*—
Cohen, Albert; Lamock, Andre ; and Villamizar, William J., 4,667,721, Cl. 152-543.000.
Villani, Frank J.; and Wong, Jesse K., to Schering Corporation. Antihistaminic 8-(halo)-substituted 6,11-dihydro-11-(4-piperidylidene)-5H-benzo[5,6]cyclohepta[1,2-b]pyridines. 4,659,716, 4-21-87, Cl. 514-290.000.
Villani, Frank J., Jr.: *See*—
Rasmussen, Chris R.; and Villani, Frank J., Jr., 4,657,922, Cl. 514-390.000.
Villani, Michael G.: *See*—
Gould, Fred L.; Pour, Diana C.; and Villani, Michael G., 4,676,985, Cl. 424-195.100.
Villanueva, Eliseo H. Installation for palletising flat pieces. 4,633,581, 1-6-87, Cl. 29-822.000.
Villanueva, Sergio E.: *See*—
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Villard, Michel: *See*—
Henry, Yves; Nicollet, Andre; and Villard, Michel, 4,665,609, Cl. 29-572.000.
Yves, Henry; Nicollet, Andre; and Villard, Michel, 4,696,094, Cl. 437-23.000.
Villarejos, Victor M.; and Visona, Kirsten A., to Louisiana State University A & M. Non-A, non-B hepatitis antigen, antigen compositions, vaccine and diagnostic reagent. 4,702,909, 10-27-87, Cl. 424-89.000.
Villari, Frank K.; and Steigerwald, Carl J., to Kendall Company, The. Urine meter with corrugated tube. 4,699,155, 10-13-87, Cl. 128-762.000.
Villarreal, Carlos E. System of flood protection for buildings. 4,693,042, 9-15-87, Cl. 52-169.140.
Villarreal, John G.: *See*—
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Villarreal, Jose A.: *See*—
Aylor, John E.; and Villarreal, Jose A., 4,676,156, Cl. 101-148.000.
Villarreal, Richard A., to United States of America, Energy. Optical scanning apparatus for indicia imprinted about a cylindrical axis. 4,636,846, 1-13-87, Cl. 358-100.000.
Villarreal-Trevino, Juan A., to Hylsa, S.A. Corrosion inhibitor for CO_2 absorption process using alkanolamines. 4,714,597, 12-22-87, Cl. 423-228.000.
Villavicencio, Eduardo J.; and Arana, Jorge E., to Process Evaluation and Development Corporation. Fiber washer. 4,635,322, 1-13-87, Cl. 19-66.00R.
Villavicencio, Eduardo J.; and Arana, Jorge E., to Process Evaluation and Development Corporation. Fiber depither. 4,641,792, 2-10-87, Cl. 241-74.000.
Villavicencio, Eduardo J., to Process Evaluation and Development Corporation. Thermomechanical digestion process for enhancing the brightness of cellulose pulp using bleachants. 4,689,117, 8-25-87, Cl. 162-19.000.
Villavicencio, Eduardo J., to W. R. Grace & Co. Thermomechanical digestion process. 4,699,691, 10-13-87, Cl. 162-19.000.
Ville, Ivan B.; Walling, James D.; and Yousey, Kevin E., to Eastman Kodak Company. Magnetic brush apparatus for developing electrostatic images. 4,638,759, 1-27-87, Cl. 118-657.000.
Villedieu, Eric: *See*—
Clement, Gilles; and Villedieu, Eric, 4,709,773, Cl. 180-9.320.
Villegas, Henry: *See*—
Chiampas, George E.; Finnegan, John P.; and Villegas, Henry, 4,680,495, Cl. 310-220.000.
Villemin, Daniel; and Romand, Paul, to Etablissements Arrive S.A. and Union Financiere pour le Development de l'Economie Cerealiere-Unigrains. Apparatus for holding a gutted animal body. 4,656,692, 4-14-87, Cl. 17-44.100.
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Karcher, Gilles; Amor, Max; Niddam, Roger; and Villemot, Jean-Pierre, 4,697,574, Cl. 128-1.00D.
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Acetarin, Jean-Dominique; Villiger, Werner; and Carlemalm, Eric, 4,680,362, Cl. 526-320.000.
Villikka, Reijo: *See*—
Aalto, Erkki; Yla-Hemmila, Veikko; and Villikka, Reijo, 4,674,531, Cl. 137-499.000.
Villman, Bruce: *See*—
Genz, Matthew L. R.; and Villman, Bruce, 4,671,056, Cl. 60-39.770.
Vilmur, Richard J.: *See*—
Haddad, Kenneth R.; and Vilmur, Richard J., 4,715,063, Cl. 379-390.000.
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Vilsmeier, Walter: *See*—
Ficht, Reinhold; and Vilsmeier, Walter, 4,712,780, Cl. 267-256.000.
Schindler, Manfred; and Vilsmeier, Walter, 4,693,492, Cl. 280-705.000.
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Kocher, Erich J.; and Szymaszek, Paul G., 4,704,069, Cl. 417-53.000.
Schintgen, Robert J., 4,634,093, Cl. 251-82.000.
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Pallanch, Francis T., 4,660,384, Cl. 62-81.000.
Vinal, Albert W., to International Business Machines Corporation. Twin track vertical magnetic recording servo control method. 4,642,709, 2-10-87, Cl. 360-77.000.
Vinal, Albert W., to International Business Machines Corporation. Combined magnetic channel signal sensor and servo control track following system and method. 4,647,992, 3-3-87, Cl. 360-77.000.
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Vinal, Albert W., to International Business Machines Corporation. Magnetically sensitive metal semiconductor devices. 4,689,648, 8-25-87, Cl. 357-27.000.
Vinal, Albert W., to International Business Machines Corporation. Simplified, shielded twin-track read/write head structure. 4,698,711, 10-6-87, Cl. 360-113.000.
Vinarub, Edmond I.: *See*—
Krohn, David A.; Maack, David R.; Vinarub, Edmond I.; and Ellison, John R., Jr., 4,679,029, Cl. 340-347.00P.
Krohn, David A.; Maack, David R.; Vinarub, Edmond I.; and Ellison, John R., Jr., 4,698,616, Cl. 340-347.00P.
Vinas, Jaime A. Apparatus for the dry treatment of a fabric. 4,679,333, 7-14-87, Cl. 34-155.000.
Vinatier, Bernard, to Produits Chimiques Ugine Kuhlmann. Thermoplastic resin composition for biaxial orientation. 4,692,295, 9-8-87, Cl. 264-291.000.
Vinatier, Bernard: *See*—
Ollivier, Jean-Paul; and Vinatier, Bernard, 4,676,942, Cl. 264-257.000.
Vincent, David; and Mahabir, Aloysius G., to Vent-Axia Limited. DC solenoid actuator circuits. 4,642,725, 2-10-87, Cl. 361-154.000.
Vincent, David, to Vent-Axia Limited. Remote speed controller for a motor. 4,659,975, 4-21-87, Cl. 318-814.000.
Vincent, Harold L.: *See*—
Broderick, Dennis W.; and Vincent, Harold L., 4,681,908, Cl. 524-268.000.

Vincent, Jacques. *See*—
Schaptra, Joseph; Vincent, Jacques; Chaillou, Daniel; and Schild, Jacques. 4,666,613, Cl. 252-8.511.
Vincent, James H.. *See*—
Lynch, Gordon; McLuckie, Peter; Mark, David; and Vincent, James H.. 4,675,034, Cl. 55-270.000.
Vincent, James P., and Weidmann, Mary E., to International Business Machines Corporation. Annotated calendar assembly. 4,645,238, 2-24-87, Cl. 283-67.000.
Vincent, Jan G.. *See*—
Hellgren, Lars G. I.; Mohr, Viggo; and Vincent, Jan G.. 4,695,457, Cl. 424-94.000.
Vincent, Jean. *See*—
Zimmerman, Huguette; Vincent, Jean; and Mangin, Pierre. 4,677,172, Cl. 526-159.000.
Vincent, Kent D., to Hewlett-Packard Company. Electrically heated transfer line for capillary tubing. 4,650,964, 3-17-87, Cl. 219-301.000.
Vincent, Kent D., to Hewlett-Packard Company. Color imager utilizing novel trichromatic beamsplitter and photosensor. 4,709,144, 11-24-87, Cl. 250-226.000.
Vincent, Laurent, to Du Pont de Nemours, E. I., and Company. Guide member for a vial. 4,676,788, 6-30-87, Cl. 604-415.000.
Vincent, Michel; Remond, Georges; and Laubie, Michel, to Adir. Perhydroindole-2-carboxylic acids as antihypertensives. 4,644,008, 2-17-87, Cl. 514-412.000.
Vincent, Philippe. *See*—
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Vincent, Ronald J., to Mechanical Technology Incorporated. Externally tuned vibration absorber. 4,694,650, 9-22-87, Cl. 60-520.000.
Vincent, William R.. *See*—
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Vincent, Yvon M. Propelling roller skate. 4,691,931, 9-8-87, Cl. 280-11.115.
Vincent, Yvon M. Roller skate. 4,706,974, 11-17-87, Cl. 280-11.115.
Vinchattle, Beryl. Hitch. 4,666,177, 5-19-87, Cl. 280-478.00B.
Vinci, James N., to Lubrizol Corporation, The. Metal working using lubricants containing basic alkaline earth metal salts. 4,659,488, 4-21-87, Cl. 252-33.000.
Vinci, James N.. *See*—
DiBiase, Stephen A.; and Vinci, James N.. 4,690,767, Cl. 252-47.000.
Vinciarelli, Patrizio, to Vicor Corporation. Power booster switching at zero current. 4,648,020, 3-3-87, Cl. 363-71.000.
Vinciarelli, Patrizio, to Vicor Corporation. Current-fed, forward converter switching at zero current. 4,675,797, 6-23-87, Cl. 363-21.000.
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Vincze, Janos. *See*—
Lacroix, Roger; Adam, Jean-Marie; and Vincze, Janos. 4,695,406, Cl. 260-372.000.
Vindez, Pierre G., to P. V. Tool, Inc. Apparatus for orientation of tool on workpiece. 4,668,134, 5-26-87, Cl. 408-97.000.
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Figliuzzi, Vincent D.. 4,660,513, Cl. 123-65.00A.
Vinegar, Harold J.; and Wellington, Scott L., to Shell Oil Company. High resolution tomographic imaging method. 4,635,197, 1-6-87, Cl. 364-414.000.
Vinegar, Harold J.; and Waxman, Monroe H., to Shell Oil Company. In-situ method for determining pore size distribution, capillary pressure and permeability. 4,644,283, 2-17-87, Cl. 324-376.000.
Vinegar, Harold J.; and Taylor, Jefferson H., to NMR Associates, Ltd. 1983-I. Scan room for magnetic resonance imager. 4,651,099, 3-17-87, Cl. 324-320.000.
Vinegar, Harold J.; and Waxman, Monroe H., to Shell Oil Company. Method for induced polarization logging. 4,658,215, 4-14-87, Cl. 324-366.000.
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Vanmeurs, Peter; Waxman, Monroe H.; and Vinegar, Harold J., 4,640,352, Cl. 166-245.000.
Viner, Loraine. Fabric repair implement and method of mending holes in fabrics. 4,715,914, 12-29-87, Cl. 156-94.000.
Vineski, John E., to Xerox Corporation. Residual toner removal and collection apparatus. 4,650,312, 3-17-87, Cl. 355-15.000.
Viney, Brian W.. *See*—
Gardiner, Robert W.; Viney, Brian W.; and Hughes, Garyth, 4,707,333, Cl. 420-590.000.
Viney, John E.. *See*—
Brazier, John F., Young, Alan H., Viney, John E., and Sutton, Gordon W., 4,708,638, Cl. 431-116.000.
Vineyard, Billy D.. *See*—
Tou, Jacob S.; and Vineyard, Billy D., 4,677,220, Cl. 560-40.000.
Vingerling, Abraham, to N.V. Optische Industrie "De Oude Delft". Device and method for protecting optical means from contaminated gases. 4,658,113, 4-14-87, Cl. 219-147.000.
Vining, William J.. *See*—
Meyer, Thomas J.; O'Toole, Terrence R.; Margerum, Lawrence D.; Westmoreland, T. David; Vining, William J.; Murray, Royce W.; and Sullivan, B. Patrick, 4,711,708, Cl. 204-280.000.
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Nieuwendijk, Joris A. M.; Heijnemans, Werner A. L.; Sluijterman, Albertus A. S.; and Vink, Nicolaas G., 4,703,232, Cl. 315-370.000.
Vink, Walter. *See*—
Puglia, Wayne J.; Lombardo, Andrew T.; Patanasmith, Kanit J.; and Vink, Walter, 4,659,582, Cl. 426-549.000.
Vinko, Mucic, to TCH Thermo-Consulting-Heidelberg GmbH. Combined steam and gas turbine plant. 4,702,081, 10-27-87, Cl. 60-655.000.
Vinn, Charles L., and Harris, David J., to Raytheon Company. Integrated circuit Zener diode. 4,646,114, 2-24-87, Cl. 357-13.000.
Vinn, Charles L.. *See*—
Harris, David J.; and Vinn, Charles L., 4,701,641, Cl. 307-445.000.
Vinnemann, Antonius; and Koninger, Veit, to Gebhard Balluff Fabrik Feinmechanischer Erzenguisse GmbH & Co. Distance measuring device operating with torsional ultrasonic waves detected without mode conversion. 4,678,993, 7-7-87, Cl. 324-208.000.
Vinogradoff, Anna P., to Merrell Dow Pharmaceuticals Inc. Process for the preparation of 4(3H)-quinazolinones. 4,644,065, 2-17-87, Cl. 548-251.000.
Vinogradoff, Anna P.. *See*—
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Vinogradov, Alexei V.; Makarova, Inna I.; Alexandrov, Jury. N.; Gaiaktionov, Viktor A.; and Ozersky, Jury P., to Fiziko-Tekhnitchesky Institute. Method and device for determining state of cardiovascular system. 4,651,748, 3-24-87, Cl. 128-680.000.
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Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Titov, Mikhail I.; Penin, Vladimir A.; Giorgadze, Alexandr K.; Titova, Galina P.; Bespalova, Zhanna D.; Pekelis, Boris L.; Permyakov, Nikolai K.; Emelyanov, Sergei I.; and Dzhikia, Alexandr A., 4,695,622, Cl. 530-329.000.
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Vinogradov, Vasily M.. *See*—
Lozinsky, Miron O.; Bobkov, Jury G.; Shinanjuk, Alla F.; Gevaza, Jury I.; Markovsky, Leonid N.; Kuznetsova, Galina A.; Markin, Valentin A.; Kleimenova, Natalya N.; Tentsova, Antonina I.; Motalov, Alexandr N.; Seredinin, Sergei B.; Katkov, Vladimir F.; Vinogradov, Vasily M.; and Kulinsky, Vladimir I., 4,691,046, Cl. 560-196.000.
Vinokur, Isaac, to Kollross, Gunter. Hollow tubular sheathing for sausages, and process of manufacture. 4,649,962, 3-17-87, Cl. 138-118.100.
Vinson, Edward F.; and Smith, William H., to Halliburton Company. Pressure pulse gelation test apparatus and method. 4,691,558, 9-8-87, Cl. 73-64.100.
Vinson, Edward F.. *See*—
Smith, William H.; and Vinson, Edward F., 4,640,361, Cl. 166-288.000.
Vinson, John W.; Kwong, Pamela C.; and Sabla, Paul E., to General Electric Company. Gas turbine engine carburetor. 4,653,278, 3-31-87, Cl. 60-737.000.
Vinther, Knud, to Duropal-Werk Eberh. Wrede GmbH & Co. Kg. Composite panels and methods of making composite panels. 4,663,912, 5-12-87, Cl. 52-813.000.
Vinton, Richard H.. *See*—
Rundell, Herbert A.; Vinton, Richard H.; and Savage, Kerry D., 4,660,636, Cl. 166-60.000.
Vinuesa, Germain. *See*—
Lebas, Jean-Marie; Rat, Pierre; Dupont, Jean-Marcel; and Vinuesa, Germain, 4,710,329, Cl. 264-3.100.
Viohl, Uwe, to Standard Elektrik Lorenz Aktiengesellschaft. Method of producing a plane phosphor screen. 4,695,477, 9-22-87, Cl. 427-68.000.
Viola, Frank J.; Schaub, Erwin L.; and Burke, Lawrence H., to Parker-Hannifin Corporation. Blade fuse manufacturing method. 4,675,990, 6-30-87, Cl. 29-623.000.
Viola, Frank J.; and Hubner, Henry H., Jr., to Parker Hannifin Corporation. Carrier tool. 4,678,217, 7-7-87, Cl. 294-16.000.
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Viola, Gian T.. *See*—
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Viola, Marian. *See*—
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Violett, Robert S.; and Anderson, W. Lee. Power plant for model jet aircraft. 4,685,289, 8-11-87, Cl. 60-269.000.

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Theodoropulos, Spyros, 4,714,763, Cl. 544-31.000.
Vion, Patrick: *See*—
Louboutin, Robert; Savall, Vincent; and Vion, Patrick, 4,633,909, Cl. 137-888.000.
Viot, Jean; Piat, Daniel; Duclos, Alain; and Albert, Simone V. Clasp with interchangeable ornament. 4,665,595, 5-19-87, Cl. 24-616.000.
Vipont Laboratories, Inc.: *See*—
Greene, James A., 4,689,216, Cl. 424-58.000.
Southard, G. Lee, 4,683,133, Cl. 424-49.000
VIR, Inc.: *See*—
Rabey, Alexander; and Hampel, Herbert J., 4,705,921, Cl. 200-50.00B.
Virag, Sandor: *See*—
Meszaros, Zoltan; Knoll, Jozsef; Hernecz, Istvan; Szentmiklosi, Peter; Horvath, Agnes; Vasvari nee Debreczy, Lelle; Kovacs, Gabor; Gyires, Klara; and Virag, Sandor, 4,666,912, Cl. 514-258.000.
Viragate Limited: *See*—
Bowyer, William H.; Crocker, Robert L.; Hansford, Christopher M.; Parker, Leslie K.; and Gray, Nigel, 4,678,194, Cl. 273-373.000.
Virant, Robert L. Peak demand limiter. 4,659,943, 4-21-87, Cl. 307-39.000.
Viratek, Inc.: *See*—
Robins, Roland K., 4,680,285, Cl. 514-23.000.
Virco Mfg. Corporation: *See*—
Chang, Chang, 4,710,049, Cl. 403-23.000.
Virdia, Antonino: *See*—
Sisto, Alessandro; Verdini, Antonio S.; and Virdia, Antonino, 4,713,367, Cl. 514-17.000.
Sisto, Alessandro; Verdini, Antonio S.; Virdia, Antonino; De Luca, Giovanna; Di Stazio, Giovanni; and Politi, Vincenzo, 4,713,368, Cl. 514-18.000.
Virgilio, Gustav: *See*—
Becker, Rudiger; Clement, Albrecht; Virgilio, Gustav; and Weller, Hugo, 4,697,563, Cl. 123-421.000.
Clement, Albrecht; Virgilio, Gustav; and Weller, Hugo, 4,643,153, Cl. 123-486.000.
Virginia Panel Corporation: *See*—
Coiner, Russell E.; Burgers, Henri T.; and Stowers, Jeffery P., 4,667,155, Cl. 324-158.00F.
Sheets, Donald L.; Hoover, Sherwood A.; Hunt, Ronnie D.; and Burgers, Henri T., 4,655,530, Cl. 339-126.00R.
Virginia Plastics Company: *See*—
Hall, Charles E., 4,674,822, Cl. 439-399.000.
Virginville Patents, Inc.: *See*—
Gilardone, Joseph C., Jr., 4,654,044, Cl. 8-471.000.
Virgo, Richard A.: *See*—
Johnson, Harold R., III; Phillips, Allyn E.; Carrigan, Erwin R.; Virgo, Richard A.; and Mickelson, James E., 4,697,675, Cl. 192-7.000.
Virieux, Philippe; and Azemard, Isabelle, to Thomson-CSF. Phase comparator. 4,634,967, 1-6-87, Cl. 324-83.00D.
Viriyayuthakorn, Montri: *See*—
Kim, Myung K.; and Viriyayuthakorn, Montri, 4,638,762, Cl. 118-725.000.
Virkar, Anil; and Yuan, Thomas C., to Dow Chemical Company, The. Sinterable and strengthened magnesium oxide ceramic materials. 4,678,761, 7-7-87, Cl. 501-104.000.
Virkar, Anil V., to Ceramatec, Inc.; and Dow Chemical Co., The. Ceramic bodies having a plurality of stress zones. 4,656,071, 4-7-87, Cl. 428-36.000.
Virkar, Anil V., to Ceramatec, Inc.; and Dow Chemical Company, The. Ceramic bodies having a plurality of stress zones. 4,677,009, 6-30-87, Cl. 428-36.000.
Virnig, Daniel R.: *See*—
Jackson, Douglas O.; and Virnig, Daniel R., 4,662,171, Cl. 60-39.150.
Virnig, Michael J., to Henkel Corporation. Process of preparing hydroxyarylaldehydes and catalyst therefor. 4,638,096, 1-20-87, Cl. 568-433.000.
Virnig, Michael J.; and Clark, James P., to Henkel Corporation. Dicyanoethenyl fatty compounds and derivatives thereof. 4,639,540, 1-27-87, Cl. 558-444.000.
Virnig, Michael J.; Clark, James P.; and MacKay, Kenneth D., to Henkel Corporation. Substituted fatty ethers. 4,647,688, 3-3-87, Cl. 558-440.000.
Virno, Michele, to SIMES, Societa Italiana Medicinali e Sintetici S.p.A. Pharmaceutical compositions and their use in the treatment of glaucoma. 4,647,590, 3-3-87, Cl. 514-651.000.
Virtanen, Jorma A.: *See*—
Kinnunen, Paavo K. J.; Schroder, Tom M.; and Virtanen, Jorma A., 4,668,623, Cl. 435-19.000.
Virtanen, Kalervo M. Mobile door closure interrupting detector. 4,635,032, 1-6-87, Cl. 304-52.00R.
Virtanen, Raimo E.; Karjalainen, Arto J.; Kurkela, Kauko O. A.; Vaha-Vahe, Antti T.; and Vainio-Kivinen, Outi M., to Farmos-Yhtyma Oy. Method of bringing about sedation and/or analgesia in a mammal. 4,670,455, 6-2-87, Cl. 514-396.000.
Virtanen, Raimo E.: *See*—
Karjalainen, Arto J.; Virtanen, Raimo E.; Karjalainen, Aria L.; and Kurkela, Kauko O. A., 4,689,339, Cl. 514-396.000.
Virtanen, Risto, to Aktiebolaget Draco. Indicating means for a dosage dispensing device. 4,668,218, 5-26-87, Cl. 604-58.000.
Virtanen, Risto: *See*—
Andersson, Jan A. R.; Moren, Nils F. E.; Wetterlin, Kjell I. L.; Snellman Wasenius, Katja A.; and Virtanen, Risto, 4,641,644, Cl. 128-200.230.
VirTis Company, Inc., The: *See*—
Anderson, John A., 4,649,118, Cl. 435-316.000.
Virtue, John: *See*—
Oslin, Brian; and Ecer, Gunes M., 4,667,497, Cl. 72-62.000.
Vis, Benjamin, to U.S. Philips Corporation. Method for vacuum-packaging finely divided materials, and a bag for implementing the method. 4,683,702, 8-4-87, Cl. 53-433.000.
Visa International Service Association: *See*—
Asbo, Einar L.; and Tichenor, Hardy, 4,646,351, Cl. 382-3.000.
Francini, Joseph P.; Asbo, Einar L.; and Boston, Vincent, 4,701,601, Cl. 235-449.000.
Visa Technologies, Inc.: *See*—
Monia, Victor, 4,704,648, Cl. 360-128.000.
Viscardi, Roberto: *See*—
Coccetti, Silvano; Viscardi, Roberto; and Gornati, Silvano, 4,672,332, Cl. 331-111.000.
Visco, Gary P.: *See*—
Millham, Ernest H.; Moser, John J.; Shushereba, John J.; and Visco, Gary P., 4,696,005, Cl. 371-27.000.
Viscogliosi, Marcello: *See*—
Schachter, Rozalie; Viscogliosi, Marcello; Bunz, Lewis A.; Olego, Diego J.; Serreze, Harvey B.; and Raccah, Paul M., 4,696,828, Cl. 427-38.000.
Viscomi, Giuseppe C.: *See*—
Verdini, Antonio S.; and Viscomi, Giuseppe C., 4,638,046, Cl. 530-332.000.
Viscontini, Max; and Datta, Subir, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Process for preparing 5-deoxy-L-arabinose. 4,650,864, 3-17-87, Cl. 536-124.000.
Viscosi, Thomas N. Insect swatter. 4,653,222, 3-31-87, Cl. 43-137.000.
Viscovsky, Nick J.: *See*—
Zaccari, Neil J.; and Viscovsky, Nick J., 4,664,772, Cl. 204-400.000.
Visek, Tomas; Czaby, Gottfried; and Nowotny, Georg, to Steyr-Daimler-Puch AG. Unit for coupling a displaceable operating bar or shaft with a regulating member, in particular with an adjusting rod of a fuel injection aggregate in an internal combustion engine. 4,677,952, 7-7-87, Cl. 123-372.000.
Visentin, Giuseppina: *See*—
Piccolo, Oreste; Visentin, Giuseppina; Blasina, Pietro; and Spreafico, Franca, 4,670,603, Cl. 568-319.000.
Visentin, Walter: *See*—
Colle, Roberto; Camaggi, Giovanni; Gozzo, Franco; Visentin, Walter; and Mirenna, Luigi, 4,704,398, Cl. 514-383.000.
Vish Chimiko-Technologicheski Institute: *See*—
Zrantchev, Ivaylo A.; and Popova, Todorka F., 4,663,693, Cl. 361-143.000.
Vish Minno-Geolojki Institute: *See*—
Nenkov, Nikolay D.; Petrov, Ivan B.; and Peev, Stoyko P., 4,664,204, Cl. 175-44.000.
Vishay Intertechnology, Inc.: *See*—
Zandman, Felix; and Szwarc, Joseph, 4,677,413, Cl. 338-7.000.
Vishe, Richard A.: *See*—
Perisastry, Ayyala; Vishe, Richard A.; and Huber, Henry J., 4,655,668, Cl. 414-417.000.
Vishlizky, Yoram, to State of Israel, Ministry of Defence, Rafael Armament. Gunnery training apparatus. 4,639,222, 1-27-87, Cl. 434-20.000.
Vishnitsky, Alexander, to Cation Corporation. Electrochemical rifling of gun barrels. 4,690,717, 9-1-87, Cl. 204-129.700.
Vishnupad, Mohan; and Ramirez, Jose E., to Chesebrough Pond's Inc. Novel translucent water in oil emulsions. 4,690,774, 9-1-87, Cl. 252-309.000.
Vishnupad, Mohan: *See*—
Ramirez, Jose E.; Tanko, Robert J.; Vishnupad, Mohan; and Schmitt, William H., 4,654,213, Cl. 424-145.000.
Vishnuvajala, Babu R., to United States of America, Health and Human Services. Method of preparing 1,2-diaminocyclohexane tetrachloro platinum (IV) isomers. 4,658,047, 4-14-87, Cl. 556-137.000.
Vishwanath, Palamadi S., to American Gas Association. Pulse combustion apparatus and method. 4,708,635, 11-24-87, Cl. 431-1.000.
Visic, Inc.: *See*—
Karp, Joel A.; and Lee, Ilbok, 4,675,848, Cl. 365-189.000.
Logwood, Dennis J.; Haq, Mohammed E. U.; Reed, John A.; and Karp, Joel A., 4,679,171, Cl. 365-154.000.
Ul Haq, Mohammed E.; Bagnall, Peter J.; and Reed, John A., 4,667,311, Cl. 365-182.000.
Vision Research Associates, Inc.: *See*—
Massof, Robert W.; and Mangat-Rai, John N., 4,634,243, Cl. 351-243.000.
Visitec Company: *See*—
Givens, Thomas B., 4,705,035, Cl. 128-303.00R.
Viskase Corporation: *See*—
Beardsley, Robert A., 4,693,280, Cl. 138-118.100.
Burns, Ronald R.; and Graves, Robert P., Jr., 4,658,962, Cl. 206-554.000.
Churma, Theodore; Latimer, Elwood D., Jr.; and Vicik, Stephen J., 4,675,364, Cl. 525-387.000.
Frey, Paul H.; Rasmussen, Jerome J. M.; and Churchill, Fredrick C., 4,688,299, Cl. 17-49.000.
Kupcikevicius, Vytautas, 4,641,687, Cl. 138-118.100.
Kupcikevicius, Vytautas, 4,649,602, Cl. 17-49.000.

Lustig, Stanley; Schuetz, Jeffrey M.; and Vicik, Stephen J., 4,714,638, Cl. 428-35.000.
Mahoney, George H.; Beckman, John H.; and Sheridan, Arthur L., 4,688,298, Cl. 17-49.000.
McAllister, Merlan E.; and Snedeker, Robert W., 4,649,961, Cl. 138-118.100.
Nausedas, Joseph A., 4,674,153, Cl. 17-49.000.
Nausedas, Joseph A., 4,692,966, Cl. 17-49.000.
Nicholson, Myron D.; and Beckman, John H., 4,657,765, Cl. 426-250.000.
Raudys, Vytas A., 4,683,617, Cl. 17-41.000.
Urbutis, Algimantas P., 4,690,173, Cl. 138-118.100.
Vismara, Mario, to Devi S.p.A. Machine for the production of moulded articles of plastic material, in particular of crash helmets for motorcyclists and the like. 4,698,001, 10-6-87, Cl. 425-4.00R.
Visona, Kirsten A.: *See*—
Villarejos, Victor M.; and Visona, Kirsten A., 4,702,909, Cl. 424-89.000.
Visser, Arie, to Extrema Systems International Corporation. Extrema coding digitizing signal processing method and apparatus. 4,700,360, 10-13-87, Cl. 375-22.000.
Visser, Jan, to U.S. Philips Corporation. Method of manufacturing a semiconductor device, in which a semiconductor substrate is subjected to a treatment in a reaction gas. 4,647,338, 3-3-87, Cl. 156-643.000.
Visser, Jeroen M.: *See*—
Zandveld, Frederik; and Visser, Jeroen M., 4,695,944, Cl. 364-200.000.
Visser, John G. Product display and take-out cart. 4,706,823, 11-17-87, Cl. 211-133.000.
Visser, Leendert: *See*—
von Sothen, Heinrich F.; and Visser, Leendert, 4,661,660, Cl. 191-12.20A.
Visser, Leonard J., to Cooper Industries, Inc. Flexible cable with multiple layer metallic shield. 4,694,122, 9-15-87, Cl. 174-106.00R.
Visser, Leonard J.: *See*—
Biegon, Robert J.; Kincaid, John W., Jr.; and Visser, Leonard J., 4,647,844, Cl. 324-57.00R.
Visser, Melvin J.; and Malot, James J., to Upjohn Company. The Removal of volatile contaminants from the vadose zone of contaminated ground. 4,660,639, 4-28-87, Cl. 166-267.000.
Visser, Norbert. Mouthpiece for wind instrument with single reed. 4,651,616, 3-24-87, Cl. 84-383.00R.
Vissers, Hermanus H.: *See*—
Pentith, Laurie A.; Vissers, Hermanus H.; and Wondergem, Jan, 4,667,592, Cl. 100-88.000.
Winkel, Jan; and Vissers, Hermanus H., 4,688,377, Cl. 56-228.000.
Vissing, E. D. Fishhook threader. 4,697,370, 10-6-87, Cl. 43-1.000.
Vista Chemical Company: *See*—
Leach, Bruce E.; and Decker, Lewis B., Jr., 4,676,928, Cl. 252-313.100.
Resh, Kyle W., 4,691,068, Cl. 585-323.000.
Vista Research, Inc.: *See*—
Maresca, Joseph W., Jr.; and Wilson, Christopher P., 4,646,560, Cl. 73-49.200.
Vistakon, Inc.: *See*—
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Martinez, Robert, 4,691,820, Cl. 206-205.000.
Vistech Corporation: *See*—
Fitzmorris, Tyce; Espenhahn, Eric; and Pereira, Jamie, 4,691,231, Cl. 358-106.000.
Visual Information Institute, Inc.: *See*—
Harshbarger, John H.; and Shores, William M., 4,670,782, Cl. 358-139.000.
Visual Marketing Inc.: *See*—
Young, Raymond R.; Deffner, John F.; and Barnes, Russell M., 4,655,574, Cl. 211-59.200.
Young, Raymond R.; Deffner, John F.; and Barnes, Russell M., 4,688,684, Cl. 211-59.400.
Visualtek, Inc.: *See*—
Soloveychik, Yakov G.; and Messerly, John J., 4,653,942, Cl. 400-122.000.
Visuri, Kalevi J., to Suomen Sokeri Oy. Stable glucose isomerase concentrate and a process for the preparation thereof. 4,699,882, 10-13-87, Cl. 435-188.000.
Viswanathan, Tito; and Westermann, Donald H., to Chemical Process Corporation. Process for preparation of resin and resin obtained. 4,692,478, 9-8-87, Cl. 527-300.000.
Vit, Jan G.: *See*—
Munzinger, Karl; Peter, Jorg; Plessl, Andreas; Poole, Denis; and Vit, Jan G., 4,689,717, Cl. 361-335.000.
Vit, Jaroslav; Salsbury, Ronald L.; and Henderson, Don J., to Orthomatrix, Inc. Ceramic process and products. 4,693,986, 9-15-87, Cl. 501-1.000.
Vita Center Inc.: *See*—
Champavier, Louis, 4,710,748, Cl. 340-347.0AD.
Vitacomm, Ltd.: *See*—
Pfohl, Robert L., 4,705,048, Cl. 128-715.000.
Vitafin N.V.: *See*—
Mensink, Kornelis A.; and Brouwer, Hendrik L., 4,665,919, Cl. 128-419.0PG.
Wittkampf, Frederik H. M.; and Rickards, Anthony F., 4,644,954, Cl. 128-419.0PG.
Vital Force, Inc.: *See*—
Conaway, Robert M., 4,688,387, Cl. 62-78.000.
Vital Kogyo Kabushiki Kaisha: *See*—
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Vitalbo, Carl A.: *See*—
Coradi, Michael D.; and Vitalbo, Carl A., 4,692,298, Cl. 376-215.000.
Kenny, Thomas J.; and Vitalbo, Carl A., 4,651,020, Cl. 307-43.000.
Vitale, Joseph, to Perfect Fit Industries, Inc. One-piece fitted sheet and mattress pad. 4,651,370, 3-24-87, Cl. 5-497.000.
Vitale, Joseph, to Perfect Fit Industries. Ultrasonically bonded nonwoven fabric. 4,659,614, 4-21-87, Cl. 428-218.000.
Vitale, Ralph A. Safety closure for aerosol cans. 4,662,542, 5-5-87, Cl. 222-153.000.
Vitaliano, Franco: *See*—
Valentine, Peter Z.; Vitaliano, Franco; and Smith, Ivor S., 4,659,076, Cl. 272-93.000.
Vitalink Communications Corporation: *See*—
Hart, John H.; and Baker, Frederick J., 4,706,081, Cl. 340-825.030.
Vitaloni, Alberto, to Vitaloni Group S.p.A. Headgear for motorcycling and similar activities, with a movable visor and chin guard. 4,689,836, 9-1-87, Cl. 2-424.000.
Vitaloni Group S.p.A.: *See*—
Vitaloni, Alberto, 4,689,836, Cl. 2-424.000.
Vitamins, Inc.: *See*—
Rice, Wayne K., 4,683,063, Cl. 210-634.000.
Vitanyi, Judit: *See*—
Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavlicsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyari, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.
Vitaphore Corporation: *See*—
Yamamoto, Ronald K.; and Pesotchinsky, Sophia, 4,676,782, Cl. 604-175.000.
Vitek, Richard K.: *See*—
Smoot, Jeffrey B.; Vitek, Richard K.; Gette, William R.; and Prieto, Thomas E., 4,657,655, Cl. 204-299.00R.
Vitellaro, Antonio; and Sanfilippo, Giovanni, to Italkali Societa Italiana Sali Alcalini S.p.A. Process for producing granulated potassium sulphate and potassium magnesium sulphates, and the granulates obtained thereby. 4,668,242, 5-26-87, Cl. 23-313.00R.
Vitello, John P.; Routhier, George W.; and McCrory, Daniel P., to International Medical Industries, Incorporated. Tamper proof cap. 4,667,837, 5-26-87, Cl. 215-228.000.
Vitetta, Ellen S.: *See*—
Uhr, Jonathan W.; and Vitetta, Ellen S., 4,664,911, Cl. 424-85.000.
Vitkovsky, Eugene C., to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method and apparatus for preparing frozen free-flowing food particles. 4,687,672, 8-18-87, Cl. 426-524.000.
Vito, Raymond P.; and Boehm, H. Russell, to Georgia Tech Research Corporation. Orthopedic leg brace with cable control. 4,688,559, 8-25-87, Cl. 128-80.00F.
Vitol, Matt J. Easy removal label and method for producing same. 4,671,003, 6-9-87, Cl. 40-2.00R.
Vitovec, Jaroslav; Cerinak, Jan; and Smolik, Jiri, to Ceskoslovenska akademie ved. Method and equipment for separation of solids from gaseous mixtures. 4,696,683, 9-29-87, Cl. 55-82.000.
Vitringa, Frederick A.; and Hagedoorn, Arend L., to Geosource Inc. Lateral compliance device for geophone springs. 4,685,094, 8-4-87, Cl. 367-183.000.
Vitriol, William A.; and Brown, Raymond L., to Hughes Aircraft Company. Process for fabricating dimensionally stable interconnect boards. 4,645,552, 2-24-87, Cl. 156-89.000.
Vitro Tec Fideicomiso: *See*—
Alonso, Antonio C.; Alvarez-Icaza, Luis L.; and Canales, Roberto R., 4,660,711, Cl. 198-430.000.
Ayala-Ortiz, Ignacio L., 4,682,998, Cl. 65-164.000.
Canales-Santos, Enrique; Carro-de-la-Fuente, Guillermo; and Ruiz-Ontiveros, Saul R., 4,705,550, Cl. 65-32.000.
Cardenas-Franco, Luis; and Taddei-Contreras, Fernando, 4,708,727, Cl. 65-29.000.
Cardenas-Franco, Luis; and Lopez-Mota, Ricardo, 4,708,729, Cl. 65-164.000.
Garcia de Leon, Jose L., 4,702,760, Cl. 65-30.140.
Garcia, Victor G.; Serrano, Ricardo J. P.; Elizalde, Fernando V.; and Cardenas, Luis F., 4,654,066, Cl. 65-29.000.
Humberto-Calderon-Quintero, Miguel, 4,715,880, Cl. 65-260.000.
Taddei-Contreras, Fernando; Rodriguez-Tovar, Santiago; and Cardenas-Franco, Luis, 4,675,042, Cl. 65-158.000.
Vitrocrisa Cristaleria, S.A.: *See*—
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Vitroculture S.A.: *See*—
Chevrolet, Gerard, 4,663,171, Cl. 426-250.000.
Vitronics Corporation: *See*—
Furtek, Edward J., 4,654,502, Cl. 219-85.0BM.
Furtek, Edward J., 4,659,906, Cl. 219-345.000.
Vits Maschinenbau GmbH: *See*—
Gorissen, Erich, 4,663,862, Cl. 34-52.000.
Vittadini, Italo: *See*—
Guerriero, Renato; Tangerini, Ilario; and Vittadini, Italo, 4,676,339, Cl. 181-294.000.
Vittay, Pal: *See*—
Toth, Edit; Torley, Jozsef; Fekete, Gyorgy; Szporny, Laszlo; Vereczkey, Laszlo; Palosi, Eva; Klebovich, Imre; Vittay, Pal; Gorog, Sandor; and Hajdu, Istvan, 4,645,779, Cl. 514-648.000.

Vittorelli, Vittore, to Ing. C. Olivetti & C., S.p.A. Method and apparatus for the phonetic recognition of words. 4,703,504, 10-27-87, Cl. 381-51.000.

Vittori, Francesco: *See*—
Contzen, Franz-Peter; Jokisch, Gerhard; and Vittori, Francesco, 4,647,011, Cl. 251-129.150.

Vittoz, Eric A.: *See*—
Degrauwe, Marc; and Vittoz, Eric A., 4,672,304, Cl. 323-314.000.

Vitunac, Edward A. Device for cleaning the sizing screen of a material reduction apparatus. 4,637,557, 1-20-87, Cl. 241-73.000.

Vitzthum, Otto G.: *See*—
Tapperman, Henry; Vitzthum, Otto G.; and Seekamp, Heinrich, 4,703,874, Cl. 222-198.000.

Vivace, Robert T., to General Motors Corporation. Support and seal assembly. 4,706,453, 11-17-87, Cl. 60-271.000.

Vivenzio, Robert L.: *See*—
Krauter, Allan I.; and Vivenzio, Robert L., 4,714,075, Cl. 128-4.000.
Lia, Raymond A.; and Vivenzio, Robert L., 4,700,693, Cl. 128-4.000.

Vives, Michel; and Buttazzoni, Bernard, to Societe Europeenne de Propulsion. Bio-compatible retention pin, and a prosthesis including such a pin. 4,711,234, 12-8-87, Cl. 128-92.0YF.

Vivet, Stephane: *See*—
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Vivian, Allan J.: *See*—
McKinnon, Alan J.; Vivian, Allan J.; and Rankin, Douglas A., 4,671,884, Cl. 252-8.800.

Vivian, Thomas A., to Dow Chemical Company, The. Stripping compositions with reduced vapor containing $MeCl_2$, a wax and ethylene or propylene carbonate. 4,645,617, 2-24-87, Cl. 252-165.000.

Vivien, Francois: *See*—
Quinart, Pierre; Schoellhammer, Georges; Tableau, Pierre; and Vivien, Francois, 4,704,773, Cl. 29-27.00C.

Vivitar Corporation: *See*—
Curran, Kenneth J., 4,704,023, Cl. 354-416.000.
Kreitzer, Melvyn H., 4,659,188, Cl. 350-427.000.

Vize, Robert M., to Caterpillar Inc. Vented fuel system for a vehicle. 4,694,870, 9-22-87, Cl. 141-326.000.

Vize, Robert M., to Caterpillar Inc. Vented fuel tank cap assembly. 4,696,409, 9-29-87, Cl. 220-203.000.

Vlakancic, Connor G.; Pereira, Ruy J.; and Goodman, Larry R., to Vertical Instruments, Inc. Solid state accumulating altimeter. 4,694,694, 9-22-87, Cl. 73-386.000.

Vlasak, Weldon R. H., to ITT Gilfillan, a division of ITT Corporation. Data transmission system. 4,691,312, 9-1-87, Cl. 370-4.000.

Vlasbloem, Hugo; and Duinker, Simon, to B.V. Optische Industrie "De Oude Delft". Apparatus for slit radiography. 4,715,056, 12-22-87, Cl. 378-152.000.

Vlasbloem, Hugo: *See*—
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Sprecker, Mark A.; Schreiber, William L.; Fujioka, Futoshi; Boden, Richard M.; Vock, Manfred H.; Whelan, Patrick; and Hanna, Marie R., 4,636,333, Cl. 252-522.00R.

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Krounbi, Mohamad T.; and Voegeli, Otto, 4,713,708, Cl. 360-113.000.

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Voeks, John F.: *See*—
Wu, Mariada L.; and Voeks, John F., 4,664,978, Cl. 428-409.000.

Voelkel, Helmut, to HV Hofmann and Volkel. Portable ion generator. 4,713,724, 12-15-87, Cl. 361-231.000.

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Kalbag, Suresh M.; and Voelker, Paul J., 4,656,248, Cl. 530-315.000.

Voelpel, Charles E. Material handling machine. 4,676,713, 6-30-87, Cl. 414-590.000.

Voelz, Dieter; and Illerhaus, Roland, to Eastman Christensen Company. Changeover bit for extended life, varied formations and steady wear. 4,690,228, 9-1-87, Cl. 175-24.000.

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Janusch, Alois; Lugscheider, Walter; and Ludewig, Fritz, 4,673,510, Cl. 210-712.000.

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Angerer, Reinhold; and Wallner, Felix, 4,635,832, Cl. 222-590.000.
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Barnthaler, Franz; Bedenk, Ferdinand; Schetina, Otto; and Zitz, Alfred, 4,662,685, Cl. 299-33.000.

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Barnthaler, Franz; Krivec, Eduard; and Zitz, Alfred, 4,688,855, Cl. 299-75.000.
Barnthaler, Franz; Bedenk, Ferdinand; Schetina, Otto; and Zitz, Alfred, 4,711,502, Cl. 299-33.000.
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Brandl, Erich, 4,669,785, Cl. 299-68.000.
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Cvitas, Vilim; Faltejsek, Karl; Hanke, Reinhart; Janusch, Alois; and Larch, Gerhard, 4,685,899, Cl. 494-44.000.
Drescher, Bernhard; and Zitz, Alfred, 4,643,567, Cl. 356-152.000.
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Enkner, Bernhard; Amon, Leopold; Kubelbock, Alfred; Trimmel, Wolfgang; Nalepka, Paul; Schropp, Leopold; Schwaighofer, Helmut; Pum, Reinhard; Traxler, Manfred; and Tasch, Franz, 4,678,168, Cl. 266-196.000.
Enkner, Bernhard; Stephani, Dietmar; Schropp, Leopold; and Stastny, Wilhelm, 4,678,419, Cl. 425-143.000.
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Feichtl, Roland; Deisenhammer, Walter; Rennstich, Eugen; and Ganglberger, Klaus, 4,655,664, Cl. 414-32.000.
Hacker, Hermann; Ivanovski, Pavle; and Herber, Peter, 4,667,416, Cl. 34-9.000.
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Mausner, Eberhard, 4,667,511, Cl. 73-119.00A.
Milionis, Konstantin, 4,699,655, Cl. 75-38.000.
Nagl, Michael; Fugger, Gerhard; Mraz, Jaroslav; Mailander, Horst; Rottenmanner, Ernst; Rauber, Norbert; and Luger, Wolfgang, 4,708,643, Cl. 432-95.000.
Pirklbauer, Wilfried; and Wieser, Klaus, 4,699,361, Cl. 266-189.000.
Pochmarski, Luzian; and Polanschutz, Wolfgang, 4,699,205, Cl. 164-468.000.
Polanschutz, Wolfgang; Pochmarski, Luzian; and Moser, Alfred, 4,691,757, Cl. 164-416.000.
Riegler, Ernst; Zajicek, Ernst; and Muhlbauer, Johann, 4,643,404, Cl. 266-240.000.
Rockenschaub, Walter; and Kepplinger, Werner, 4,690,387, Cl. 266-144.000.
Sellner, Jorg; Siegwert, Rudolf; and Grauli, Siegfried, 4,671,712, Cl. 409-211.000.
Trapp, Helmut, 4,700,826, Cl. 198-550.120.
Wallner, Felix; Krier, Adam; Lugscheider, Walter; Uckert, Gotthard; and Freimann, Paul, 4,651,656, Cl. 110-346.000.
Zierler, Reinhard, 4,644,844, Cl. 89-40.080.
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ogel, Carl-Wilhelm E.: *See*—
Muller-Eberhard, Hans J.; and Vogel, Carl-Wilhelm E., 4,661,347, Cl. 424-85.000.
ogel, Eva M.: *See*—
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ogel, Ferdinand L., to Intercal Company. Compositions for improving the stability of intercalated graphite structural members. 4,642,201, 2-10-87, Cl. 252-503.000.
ogel, Friedrich: *See*—
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ogel, Gerald J.; Kearney, Donald T.; Akpinar, Belkis K.; and Moorman, Charles T., to General Foods Corporation. Process of steaming and percolating coffee. 4,707,368, 11-17-87, Cl. 426-386.000.
Vogel, Hans-Henning, to BASF Aktiengesellschaft. Production of compression moldings from finely divided thermoplastic polymers. 4,681,719, 7-21-87, Cl. 264-122.000.
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Vogel, John E.: *See*—
Gold, Thomas P.; and Vogel, John E., 4,664,363, Cl. 267-140.100.
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Vogel, John V., to Tenneco Oil Company. Gravity stabilized thermal miscible displacement process. 4,697,642, 10-6-87, Cl. 166-263.000.
Vogel, Jurgen; Holand, Wolfram; and Vogel, Werner, to VEB Jenaer Glaswerk. Phosphate glass ceramic for biological and medical applications. 4,698,318, 10-6-87, Cl. 501-10.000.
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Vogel, Peter, to Fritz Gegauf Aktiengesellschaft Bernina-Nahmaschinenfabrik. Sewing machine and means for transporting workpieces therein. 4,651,658, 3-24-87, Cl. 112-118.000.
Vogel, Richard M., to Eastman Kodak Company. Asynchronous still timing for a video camera producing movie or still images. 4,714,963, 12-22-87, Cl. 358-213.260.
Vogel, Roger F.: *See*—
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Vogel Tool & Die Corporation: *See*—
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Lillquist, Robert D.; Pimbley, Joseph M.; and Vogelsong, Thomas L., 4,679,068, Cl. 358-44.000.
Vogen, Wayne V., to URS Corporation. Method and apparatus for improving oil production in oil wells. 4,674,571, 6-23-87, Cl. 166-249.000.
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Voges, Dieter: *See*—
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Voges, Heinz-Werner; and Schmidt, Arno Siegmar, to Huels Aktiengesellschaft. Process and catalyst for the orthomethylation of phenols. 4,644,086, 2-17-87, Cl. 568-804.000.
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Voggenreiter, Martin; Dietz, Rainer; and Poloczek, Erwin, to Linde Aktiengesellschaft. Heat exchanger. 4,646,822, 3-3-87, Cl. 165-166.000.
Voggenthaler, Ludwig; Operschall, Hermann; and Weber, Jakob, to Kraftwerk Union Aktiengesellschaft. Apparatus for electropolishing the inner surface of U-shaped heat exchanger tubes. 4,645,587, 2-24-87, Cl. 204-275.000.
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Vogl, Rudolf, to Deggendorfer Werft und Eisenbau GmbH. Reactor construction. 4,657,741, 4-14-87, Cl. 422-202.000.
Voglaire, Franz, to Asea Jumet Societe Anonyme. Self-regenerating capacitor protected by athermal circuit-breaker and a process for its manufacture. 4,635,163, 1-6-87, Cl. 361-275.000.
Vogler, Franz, to Elvo Elektronik AG. Apparatus for cleaning soldering iron bits. 4,662,022, 5-5-87, Cl. 15-97.00R.
Vogt, Clifford M.; Shipp, Peter W., Jr.; and Pendley, Cynthia C., to Kimberly-Clark Corporation. Disposable stove hood filter. 4,689,058, 8-25-87, Cl. 55-279.000.
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Vogt, Frederich H.; Bunk, Stanley A.; and D'Acierno, John P., to Dorr-Oliver Incorporated. Ash classifier. 4,700,836, 10-20-87, Cl. 110-165.00A
Vogt, Gert. See—
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Vogt, Manfred; Schonwitz, Hans-Peter; and Dambach, Walter, to Reaktor Brennelement Union GmbH. Supporting device for an elongated nuclear reactor fuel element and/or an elongated nuclear reactor fuel element part. 4,652,422, 3-24-87, Cl. 376-272.000
Vogt, Martina. See—
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Burr, Heinz G.; and Vogt, Michael. 4,666,343, Cl. 405-217.000
Vogt, Norman H., to C. A. Pemberton & Co. Limited. Method and apparatus for mechanically excluding the breastbone of livestock carcasses. 4,667,371, 5-26-87, Cl. 17-52.000
Vogt, Philippe. Photographic camera. 4,692,007, 9-8-87, Cl. 354-160.000
Vogt, Robert K. See—
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Vogt, Russell G.; Eylon, Daniel; and Fraes, Francis H., to United States of America, Air Force. Method for refining microstructures of titanium ingot metallurgy articles. 4,680,063, 7-14-87, Cl. 148-11.50F
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Vogt, Siegfried; and Schulze, Wolfram, to Kochs Adler AG. Automatic sewing machine having a post-arranged reel. 4,706,586, 11-17-87, Cl. 112-121.290
Vogt, Werner, to Interlock Sicherheitssysteme. Information carrier in the form of a card. 4,635,965, 1-13-87, Cl. 283-112.000
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Vogt, William R., to Baker Industries, Inc. Data communication system with key data bit denoting significance of other data bits. 4,658,249, 4-14-87, Cl. 340-825.630
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Voisard, Walter B., to Cessna Aircraft Company, The. Controllable pitch aircraft propeller. 4,648,798, 3-10-87, Cl. 416-48.000
Voisin, Ernest A., to Motivatit Seafoods, Inc. Oyster dredging apparatus. 4,646,448, 3-3-87, Cl. 37-55.000
Voisin, Jean-Paul. See—
Benoit, Philippe; Chielens, Alain; and Voisin, Jean-Paul, 4,716,532, Cl. 364-477.000
Voisin, Oliver. See—
Gouali, Mohamed; Roullet, Gerald; and Voisin, Oliver, 4,708,425, Cl. 350-96.160
Voisine, John T. See—
Wright, Wade S.; Voisine, John T.; and Happy, Glenn S., 4,677,276, Cl. 364-562.000
Voit, Gabriele. See—
Oswald, Robert; and Voit, Gabriele, 4,692,356, Cl. 427-384.000
Voit, William F., Jr. See—
Dyer, Stanley; Molloy, James J.; Nguyen, Thoi; Rikerd, David M.; Voit, William F., Jr.; and West, Donald L., 4,641,140, Cl. 340-76.0PH
Voith, Donald J.; and Someah, Kaveh S., to Water Services of America, Inc. Protection of heat exchanger tube ends. 4,643,240, 2-17-87, Cl. 165-95.000
Voith, Donald J., to Water Services of America, Inc. Fluid flow diverter valve with improved chamber arrangement. 4,651,577, 3-31-87, Cl. 137-625.430
Voith Hydro, Inc. See—
Mayo, Howard A., Jr.; and Whippen, Warren G., 4,645,244, Cl. 60-398.000
Voith S/A - Maquinas e Equipamentos. See—
Leibig, Wilhelm, 4,664,716, Cl. 127-6.000
Voith, Thomas P. Modular step ramp. 4,712,264, 12-15-87, Cl. 14-69.500
Voith Transmit GmbH. See—
Mueller, Helmut; and Breyger, Reinhard, 4,634,402, Cl. 464-136.000
Voith Turbo GmbH & Co. KG. See—
Murner, Ulf, 4,641,683, Cl. 137-467.500
Voitsek, Vladimir. See—
Krovak, Premysl; Beltunek, Vladimir; Voitsek, Vladimir; Salva, Miroslav; and Hasal, Pavel, 4,683,062, Cl. 210-617.000
Vokac, Peter R. See—
Gerdes, Richard C.; and Vokac, Peter R., 4,680,633, Cl. 358-171.000
Vokaty, Joseph L. Tool holder. 4,645,394, 2-24-87, Cl. 224-251.000
Vokey, David E., to Canada Wire and Cable Limited, Cable, having composite shield and armour sheath design. 4,647,720, 3-3-87, Cl. 174-107.000
Voko Franz Vogt & Co. See—
Machate, Rainer; Vonbrunnen, Robert; and Hansen, Eckhard, 4,685,713, Cl. 297-284.000
Volakakis, John G.; McNeils, Robert L.; and Wallentine, Burt B., to Handling Systems, Inc. Jib crane arrangement having a rotatable mast. 4,684,688, 8-25-87, Cl. 212-253.000
Volcani Research Center. See—
Frankel, Harry; Samberg, Jehuda; Bendheim, Uri; Rivan, Jehuda; and Babazada, Mordechai, 4,674,490, Cl. 128-200.240
Vold, Barbara S., to SRI International. Methods and test kit for diagnosing/monitoring cancer in humans. 4,665,018, 5-12-87, Cl. 435.6.000
Voler, Franja F.; Hale, John K.; and Koch, Earl E., to New Holland Inc. Self-cleaning rotor assembly. 4,653,253, 3-31-87, Cl. 56-13.600
Voler, Franja F. See—
Koch, Earl E.; and Voler, Franja F., 4,693,061, Cl. 56-13.600
Volesky, Gary A. See—
Buxton, Clifford A.; Higgins, David C.; and Volesky, Gary A., 4,693,132, Cl. 74-425.000
Volin, Frank. Wheelchair width adjuster. 4,648,615, 3-10-87, Cl. 280-242.0WC
Volinn, Nicholas A., to Facet Enterprises, Inc. Electric roller clutch starter drive. 4,661,715, 4-28-87, Cl. 290-48.000
Volinn, Nicholas A. See—
Taffin, John R., Jr.; and Volinn, Nicholas A., 4,695,735, Cl. 290-38.000R
Volion, Daniel J. See—
Gunther, Albert W., Jr.; Gunther, Albert W., Sr.; and Volion, Daniel J., 4,652,177, Cl. 405-196.000
Volk, Anthony J. Basket poultry leg retainer. 4,653,146, 3-31-87, Cl. 17-11.000
Volk, Claus, to Stewart Stamping Corporation. Insulation-piercing electrical contact and connector incorporating the same. 4,679,875, 7-14-87, Cl. 439-425.000
Volk, David. Aspheric contact lens. 4,640,595, 2-3-87, Cl. 351-160.000R
Volk, David. Head-borne binocular indirect ophthalmoscope with integrated telescope. 4,682,866, 7-28-87, Cl. 351-205.000
Volk, David. Accommodating intraocular lens and lens series and method of lens selection. 4,710,193, 12-1-87, Cl. 623-6.000
Volk, Hans-Joachim; Becker, Herbert; and Dallwig, Claus, to Bose Fahrzeugteile GmbH & Co. KG. Safety belt system, especially in a motor vehicle. 4,667,982, 5-26-87, Cl. 280-808.000
Volk, Heinrich, to Eiselte Metu International GmbH. Printer with plural endless bands and stop means therefor. 4,679,500, 7-14-87, Cl. 101-111.000
Volk, Heinrich; Harter, Karl; and Dotter, Fritz, to Eiselte Metu International GmbH. Printed band, in particular for price marking devices. 4,694,745, 9-22-87, Cl. 101-111.000
Volk, Jack R.; and Piatkowski, Philip, Jr., to Ford Motor Company. Lamp failure monitoring system. 4,667,187, 5-19-87, Cl. 340-641.000
Volk, Jack R.; and Piatkowski, Philip, Jr., to Ford Motor Company. System for detecting the failure of a filament lamp. 4,668,946, 5-26-87, Cl. 340-641.000
Volk, Jack R. See—
Crawford, Robert D.; Johnson, Wayne J.; Kimber, Theo, Jr.; Neff, Douglas; Volk, Jack R.; and Franks, Donald C., 4,715,031, Cl. 370-85.000

Volk, John L., *See*—
Louie, Chuen W., Rocholfs, Darrell D., Volk, John L., and Romeo, Arthur L., 4,673,847, Cl. 315-368.000.
Smith, Robert H., Louie, Chuen W., Volk, John L., Rocholfs, Darrell D., DeLorenzo, Anthony N., Romeo, Arthur L., and Mayer, Thomas L., 4,680,510, Cl. 315-368.000.
Volk, Joseph A., Jr., to Beta Raven Inc. Microwave heating in a pellet mill, 4,671,757, 6-9-87, Cl. 425-144.000.
Volk, Joseph A., Jr., and Knispmann, Mark R., to Beta Raven Inc. Controlled fat injection with steam in a pellet mill, 4,678,424, 7-7-87, Cl. 425-331.000.
Volk, Joseph A., Jr., to Beta Raven Inc. Automatic pellet mill control with steam temperature control, 4,700,310, 10-13-87, Cl. 364-468.000.
Volk, Joseph F. *See*—
Chase, Richard F., Englamier, Gary E., Gorman, Martin A., and Volk, Joseph F., 4,709,514, Cl. 51-325.000.
Volk, Kenneth J. Vacuum pump drain device, 4,676,265, 6-30-87, Cl. 137-172.000.
Volk, Stanley. *See*—
Hirsch, Gerald B., Volk, Stanley, Cirrito, William, and Brann, Dyle, 4,660,615, Cl. 2-171.300.
Volk, Thomas G., and Joycox, Donald F., to Northern Telecom Limited, High density connector for main frames in telephone systems, 4,701,135, 10-20-87, Cl. 439-54.000.
Volkamer, Klaus. *See*—
Lindner, Alfred, Wagner, Ulrich, Volkamer, Klaus, and Rebafka, Walter, 4,647,344, Cl. 203-29.000.
Volke, Robert W., to Vanseal Manufacturing Corp. Method of processing hydrocolloid dressings, 4,693,858, 9-15-87, Cl. 264-101.000.
Volker, Karl-Heinz. *See*—
Bichler, Werner-Heinz, Rolf, Klein, Hans-Hermann, and Volker, Karl-Heinz, 4,642,995, Cl. 62-6.000.
Volker, Wolfgang. *See*—
Donnerhack, Andreas, Jankowski, Detlef, Pfeil-Schneider, Kurt, Thoma, Klemens, and Volker, Wolfgang, 4,688,403, Cl. 138-103.000.
Thoma, Klemens, and Volker, Wolfgang, 4,693,252, Cl. 128-400.000.
Volkin, Nikolai N., Ardabatsky, Vladimir P., Dulya, Boris A., Zhuravlev, Vitaly P., and Stepanov, Alexandr V., to Vsesoyuzny Nauchno-Issledovatelsky Proektno-Konstruktorsky I Tekhnologichesky Akkumulyatorny Institut, Apparatus for sealing a cylindrical storage cell, 4,656,716, 4-14-87, Cl. 29-731.000.
Volkin, Nikolai N., Ardabatsky, Vladimir P., and Luzin, Valery V., to Vsesoyuzny Nauchnoissledovatelsky Proektno-Konstruktorsky I Tekhnologichesky Akkumulyatorny Institut, Method of assembling a cylindrical storage battery, 4,700,468, 10-20-87, Cl. 29-623.200.
Volkle, Rolf, Chair having a clamping device for adjusting the inclination of the back and/or seat, 4,693,514, 9-15-87, Cl. 297-374.000.
Volkle, Rolf, Chair with seat spring mechanism, 4,712,835, 12-15-87, Cl. 297-304.000.
Volklein, Friedemann. *See*—
Ebel, Thomas, Muller, Jurgen, and Volklein, Friedemann, 4,665,276, Cl. 136-215.000.
Volkmann, Robert A., to Pfizer Inc. Imidazolidinone precursors for the preparation of biotin, 4,694,087, 9-15-87, Cl. 548-321.000.
Volkmann, Robert A. *See*—
Carroll, Ronnie D., and Volkmann, Robert A., 4,714,761, Cl. 540-310.000.
Eggler, James F., Holland, Gerald F., Johnson, Michael R., and Volkmann, Robert A., 4,703,052, Cl. 514-337.000.
Gruetzmacher, Gordon D., and Volkmann, Robert A., 4,670,564, Cl. 546-303.000.
Volkmar, Ralf R., to Siemens Energy & Automation, Inc. U-shaped solid magnetic core with at least one opening through the midsection thereof, 4,642,594, 2-10-87, Cl. 335-227.000.
Volkmer, Margret. *See*—
Grutte, Friedrich-Karl, Petzold, Heinrich, Walter, Ulrich, Boge, Gunhild, Domeratzky, Joachim, Gartner, Helmut, Schutze, Jurgen, Zunft, Hans-Joachim, Polz, Otto, Luft, Christa, Muller, Wilhelm, Wolk, Petra, Dahlke, Hannelore, and Volkmer, Margret, 4,692,340, Cl. 426-72.000.
Volkov, Jury S. *See*—
Martyshenko, Jury P., Martyshenko, Sergei J., Kotelnikov, Jury S., Kutukhtin, Evgeny G., Ilyasova, Nelli I., Volkov, Jury S., Vardanian, Armenak M., and Petrosian, Misha S., 4,701,075, Cl. 405-217.000.
Volkov, Nikolai S. *See*—
Kuderov, Petr A., Volkov, Nikolai S., Vasilieva, Natalia V., and Malashkina, Regina T., 4,702,860, Cl. 252-511.000.
Volkswagen Aktiengesellschaft. *See*—
Diessner, Eberhard, and Zahn, Ulrich, 4,697,621, Cl. 141-1.000.
Emmerthal, Klaus-Dieter, and Neumann, Joachim, 4,712,581, Cl. 137-561.00A.
Hoffmeier, Peter, and Sandhagen, Jurgen, 4,690,118, Cl. 123-533.000.
Leineweber, Gunter, and Warnecke, Rolf, 4,697,497, Cl. 91-372.000.
Muller, Eckart, and Beckmann, Rudolff, 4,715,179, Cl. 60-274.000.
Oetting, Hermann, Oberg, Hans-Joachim, Pundt, Dieter, and Binnewies, Willi, 4,669,443, Cl. 123-647.000.
Rozeas, Tomas, 4,709,681, Cl. 123-531.000.
Volkswagenwerk Aktiengesellschaft. *See*—
Emmerthal, Klaus-Dieter, 4,646,706, Cl. 123-585.000.
Leineweber, Gunter, Warnecke, Rolf, and Rahmer, Heinz, 4,638,719, Cl. 91-371.000.
Voll, Horst, and Meyer, Manfred, to FAG Kugelfischer Georg Schafer (KGaA), Disk storage spindle arrangement, 4,713,704, 12-15-87, Cl. 360-97.000.
Voll, Horst. *See*—
Heim, Edgar, and Voll, Horst, 4,665,333, Cl. 310-154.000.
Voll, Manfred, and Engel, Richard, to Degussa Aktiengesellschaft, Method for the treatment of flushed carbon black utilizing level sensing means, 4,647,444, 3-3-87, Cl. 423-460.000.
Voll, Manfred, to Degussa Aktiengesellschaft, Apparatus and continuous method for the multistage treatment of finely divided solid substances with gases, 4,698,913, 10-13-87, Cl. 34-10.000.
Voll, Manfred. *See*—
Engel, Richard, and Voll, Manfred, 4,676,200, Cl. 122-39.000.
Voll, Martin A., Eskop, Robert K., and Yankovsky, Kharri I., to Institut Kimmi AN, Device for taking samples of bottom sediments from water basins, 4,709,584, 12-1-87, Cl. 73-864.440.
Volland, Craig S., Submerged rotating heat exchanger-reactor, 4,693,304, 9-15-87, Cl. 165-88.000.
Volland, Michel, Fourneaux, Roger, and Grandvallet, Gilles, to Sauter-Diederichs S.A., Compressed air supply device for a weaving machine with pneumatic picking of at least two weft threads, 4,651,785, 3-24-87, Cl. 139-435.000.
Vollberg, Fritz, and Steinhaus, Lothar, to Albert Schulte Sohne GmbH & Co, Caster with a plain thrust bearing between the wheel frame and the frame carrier, 4,653,139, 3-31-87, Cl. 16-20.000.
Vollberg, Fritz, and Steinhaus, Lothar, to Albert Schulte Sohne GmbH & Co, Blocking device for the wheels and wheel frames of casters, 4,658,466, 4-21-87, Cl. 16-35.00R.
Vollenbroek, Franciscus A., Dil, Jan G., Kroon, Henricus J. J., Spierts, Elisabeth J., and Nijssen, Wilhelmus P. M., to U.S. Philips Corporation, Method of manufacturing a semiconductor device, in which a photolacquer mask is formed by means of a two-layer lacquer system, 4,704,347, 11-3-87, Cl. 430-312.000.
Vollenweider, Edward E., to Technical Innovations, Inc. Automatic resin dispensing apparatus, 4,634,024, 1-6-87, Cl. 222-135.000.
Volles, Warren K. *See*—
Zarchy, Andrew S., Volles, Warren K., and O'Keefe, Luke F., 4,709,116, Cl. 585-738.000.
Vollkommer, Harry T., *Jr. See*—
Hayes, Raymond M., Kirkpatrick, Thomas L., Lauletta, John L., Shuter, Timothy C., and Vollkommer, Harry T., *Jr.*, 4,667,152, Cl. 324-77.00R.
Vollmann, Norbert, and Mader, Leopold, to U.S. Philips Corporation, Video cassette recorder with improved tape guiding and tensioning, 4,642,706, 2-10-87, Cl. 360-74.300.
Vollmer, David J., and Greame, James E., to Automatic Switch Company, Solenoid arrangement including yoke-enclosed coil and double encapsulation, 4,679,767, 7-14-87, Cl. 251-129.150.
Vollmer, David J., and Greame, James E., to Automatic Switch Company, Solenoid actuator with fastener, 4,683,453, 7-28-87, Cl. 335-255.000.
Vollmer, David J., and Greame, James E., to Automatic Switch Company, Solenoid actuator with electrical connection modules, 4,683,454, 7-28-87, Cl. 335-299.000.
Vollmer, Elmar, Hofmann, Jens, and Adam, Helmut, to Audi AG, Safety apparatus for vehicles, 4,703,827, 11-3-87, Cl. 180-232.000.
Vollmer, George W. *See*—
Anderson, Craig B., and Vollmer, George W., 4,651,587, Cl. 74-459.500.
Vollmer, Hans-Peter. *See*—
Marschall, Peter, Schlosser, Ewald, and Vollmer, Hans-Peter, 4,692,926, Cl. 372-46.000.
Vollmer, Hans-Ulrich, to Siemens Aktiengesellschaft, Method and apparatus for calibrating an adjustable frequency generator, 4,677,394, 6-30-87, Cl. 331-1.00A.
Vollmer, Heinrich. *See*—
Hiller, Rolf, Vollmer, Heinrich, Beckschafer, Klaus, Glodde, Reimund, and Kramer, Gunter, 4,652,469, Cl. 427-291.000.
Vollmer, Helmut, Kousek, Heinz, and Maier, Elmar, to Hilti Aktiengesellschaft, Means for maintaining axial stress on a dowel assembly, 4,681,493, 7-21-87, Cl. 411-8.000.
Vollmer, Jurgen, to Jean Walterscheid GmbH, Coupling device for agricultural implements, 4,637,751, 1-20-87, Cl. 403-379.000.
Vollmer, Lothar, Apparatus for producing consecutive connections between the interiors of glass lamp bulbs and sources of pressurized gas and/or vacuum, 4,666,416, 5-19-87, Cl. 445-73.000.
Vollmer, Robert F. *See*—
Meyer, David A., Tassen, Brian B., Vollmer, Robert F., and Warren, J. Bruce, 4,691,638, Cl. 102-434.000.
Vollmer, Robert L. *See*—
Champ, Robert B., and Vollmer, Robert L., 4,677,045, Cl. 430-76.000.
Vollmer Werke Maschinenfabrik GmbH. *See*—
Beck, Ernst, Lenard, Peter, and Hutzel, Hans, 4,677,882, Cl. 76-77.000.
Vollrath Company, The. *See*—
Heaney, Dennis J., and Reiter, Wm. Bruce, 4,660,734, Cl. 220-75.000.
Sandman, Robert B., 4,654,099, Cl. 156-220.000.
Sandman, Robert B., 4,689,275, Cl. 428-537.100.
Vollrath, Johannes, to Audi AG, Device for mounting a light unit on an automobile body, 4,636,921, 1-13-87, Cl. 362-61.000.
Vollweiler, Arthur R., Combination soil auger and soil core sampler with sample retaining capacity, 4,653,336, 3-31-87, Cl. 73-864.440.

Volmari, Josef: *See*—
Lorenz, Kurt; Dungs, Horst; Nashan, Gerd; Breidenbach, Dieter; and Volmari, Josef, 4,647,341, Cl. 202-228.000.
Nashan, Gerd; Volmari, Josef; Dungs, Horst; Breidenbach, Dieter; and Lorenz, Kurt, 4,668,343, Cl. 201-39.000.
Nashan, Gerd; Volmari, Josef; Dungs, Horst; Breidenbach, Dieter; and Lorenz, Kurt, 4,699,693, Cl. 202-228.000.

Volmark, Josef: *See*—
Lorenz, Kurt; Dungs, Horst; Nashan, Gerd; Breidenbach, Dieter; and Volmark, Josef, 4,668,344, Cl. 201-39.000.

Volnak, William M.: Chording keyboard for generating binary data. 4,679,030, 7-7-87, Cl. 340-365.00A.

Voloshin, Vitaly I.: *See*—
Paton, Boris E.; Vasiliev, Vsevolod V.; Bogdanovsky, Valentin A.; Baranov, Alexandr I.; Danilyak, Sergei N.; Schegolev, Viktor A.; Chernoivanov, Vladimir A.; Voloshin, Vitaly I.; Gavva, Viktor M.; and Bernadsky, Vsevolod N., 4,680,014, Cl. 434-234.000.

Volp, Jeffrey A., to Charles Stark Draper Laboratory, Inc., The. Fault-tolerant power distribution system. 4,659,942, 4-21-87, Cl. 307-19.000.

Volpato, Alberto: Device apt to permit skiing on snowless ground. 4,700,958, 10-20-87, Cl. 280-11.18T.

Volpeliere, Jacky: *See*—
Hanrot, Jean-Pascal; and Volpeliere, Jacky, 4,659,263, Cl. 406-89.000.
Hanrot, Jean-Pascal; and Volpeliere, Jacky, 4,692,068, Cl. 406-89.000.

Volpi, Giuseppe: Folding seats, benches and tables. 4,662,675, 5-5-87, Cl. 297-124.000.

Volpini, Paul M.: *See*—
Brunn, Frederick A.; Hoppe, Edward A.; and Volpini, Paul M., 4,704,518, Cl. 235-480.000.

Volta Power Belting, Ltd.: *See*—
Pinto, Gideon; and Schanin, Jonathan, 4,650,446, Cl. 474-253.000.
Pinto, Gideon; and Schanin, Jonathan, 4,661,646, Cl. 156-157.000.

Voltaix, Inc.: *See*—
de Neufville, John P.; Rajoria, Dalip; and Ovshinsky, Stanford R., 4,707,422, Cl. 429-48.000.
Russotti, Robert, 4,668,502, Cl. 423-645.000.

Voltarc Tubes, Inc.: *See*—
Sorrell, Malcolm E., 4,647,137, Cl. 339-144.00T.

Voltec Corporation: *See*—
Mione, Lawrence J., 4,675,537, Cl. 307-38.000.

Voltmer, Helmut; and Schwenzer, Alfred F., to New Jersey Machine Inc. Combination labeling and literature applying machine. 4,647,333, 3-3-87, Cl. 156-351.000.

Voltmer, Helmut; Schwenzer, Alfred F.; and Mazur, Edward J., to New Jersey Machine Inc. Tamper evident banding. 4,668,327, 5-26-87, Cl. 156-477.100.

Voltmer, Helmut, to New Jersey Machine, Inc. Vacuum drum labeling system. 4,687,535, 8-18-87, Cl. 156-361.000.

Volvo Car B.V.: *See*—
Horowitz, Alexandre; Cuypers, Martinus H.; and van Rooji, Jacobus H. M., 4,642,079, Cl. 474-219.000.
Mynott, Ralph; and Verbeek, Johan, 4,715,647, Cl. 296-152.000.

Volz, Hans, to International Standard Electric Corporation. Sensor for magnetizable materials. 4,649,755, 3-17-87, Cl. 73-861.780.

Volz, Hans; and Kersten, Peter, to International Standard Electric Corporation. Solderable adhesive layer. 4,659,378, 4-21-87, Cl. 420-8.000.

Volz, Hans: *See*—
Heck, Wolfgang; Kersten, Peter; and Volz, Hans, 4,712,083, Cl. 338-32.00R.
Kersten, Peter; Volz, Hans; and Seyfried, Ulrich, 4,668,914, Cl. 324-251.000.

Volz, Peter: *See*—
Boehm, Peter; Volz, Peter; Bischoff, Gilbert; Booten, Sigmund; Engert, Klaus; and Loew, Albin, 4,641,568, Cl. 91-369.00A.
Sausner, Andreas; and Volz, Peter, 4,702,209, Cl. 123-339.000.

vom Braucke, Hans; vom Braucke, Manfred; and Westerwelle, Dieter, to Bielefelder Kuchenmaschinen-und Transportgeratefabrik vom Braucke GmbH. Hand tool for loosening soil. 4,678,043, 7-7-87, Cl. 172-349.000.

vom Braucke, Manfred: *See*—
vom Braucke, Hans; vom Braucke, Manfred; and Westerwelle, Dieter, 4,678,043, Cl. 172-349.000.

Vomhof, Paul; Schmidt, Karlheinz; and Oster, Peter, to Kramer & Grebe GmbH & Co. KG. Cutter head for meat cutter. 4,696,434, 9-29-87, Cl. 241-282.200.

vom Stein, Hans, to Interroll Fordertechnik GmbH & Co. KG. Apparatus for the separation of pallets on a roller conveyor. 4,646,909, 3-3-87, Cl. 198-460.000.

Von Duprin, Inc.: *See*—
Haeck, Paul J.; and Jacobs, Gary R., 4,641,866, Cl. 292-336.300.
Jacobs, Gary R.; and Haeck, Paul J., 4,658,664, Cl. 74-422.000.

Von Roll AG: *See*—
Bergmann, Bernhard, 4,648,633, Cl. 285-337.000.
Kistler, Francois, 4,707,272, Cl. 210-709.000.
Kunnecke, Walter; Amacher, Urs; and Meier, Max, 4,703,150, Cl. 219-535.000.
Smidek, Otakar, 4,712,652, Cl. 187-1.00R.

Von Roll Habegger AG.: *See*—
Feuz, Fritz, 4,633,783, Cl. 104-211.000.

Vona, Nick: *See*—
Longhouse, Richard E.; and Vona, Nick, 4,685,513, Cl. 165-121.000.

von Ahrens, Roger W., to Robyon Backing Ring Company. Partially consumable spacer chill ring. 4,652,019, 3-24-87, Cl. 285-22.000.

Von Albertini, Beat: High flux needle. 4,670,008, 6-2-87, Cl. 604-165.000.

von Alpen, Ulrich, to Varta Batterie A.G. Water-free organic electrolyte. 4,713,305, 12-15-87, Cl. 429-194.000.

von Alven, Raymond D.: *See*—
Sleeter, Donald D.; von Alven, Raymond D.; and Fernwood, George G., 4,663,015, Cl. 204-299.00R.

von Angerer, Erwin; and Schonenberger, Helmut, to Degussa Aktiengesellschaft. 2-(hydroxy-phenyl)-indoles and process for their production. 4,661,511, 4-28-87, Cl. 514-415.000.

von Ardenne, Alexander: *See*—
Schiller, Siegfried; Jaesch, Guenter; and von Ardenne, Alexander, 4,665,297, Cl. 219-121.0ET.

von Aschwege, J. Thomas: *See*—
Beynet, Pierre A.; and von Aschwege, J. Thomas, 4,708,525, Cl. 405-195.000.

von Au, Gunther; Braunsperger, Karl; Hulin, Karl; and Kovar, Ingmar, to Wacker-Chemie GmbH. Process for preparing organofunctional organopolysiloxanes. 4,652,662, 3-24-87, Cl. 549-215.000.

Vonau, Vincent: *See*—
Blancheton, Jean-Paul; Calvas, Jacques; Michel, Alain H.; and Vonau, Vincent, 4,640,227, Cl. 119-2.000.

von Ballmoos, Fritz, to Dr. von Ballmoos AG. Automatic cash-collecting monitoring installation. 4,703,164, 10-27-87, Cl. 235-384.000.

von Ballmoos, Roland: *See*—
Derouane, Eric G.; and von Ballmoos, Roland, 4,639,357, Cl. 423-306.000.
Derouane, Eric G.; and von Ballmoos, Roland, 4,639,358, Cl. 423-306.000.
Derouane, Eric G.; and von Ballmoos, Roland, 4,647,442, Cl. 423-306.000.
Derouane, Eric G.; Valyocsik, Ernest W.; and von Ballmoos, Roland, 4,654,138, Cl. 208-114.000.
Derouane, Eric G.; and von Ballmoos, Roland, 4,664,897, Cl. 423-306.000.
Derouane, Eric G.; and von Ballmoos, Roland, 4,673,559, Cl. 423-306.000.

von Beckmann, Helmuth; and Reeves, Edwin H., to Canron Corp. Railroad correction apparatus. 4,658,730, 4-21-87, Cl. 104-5.000.

von Behrens, Wieland E., to Sequoia-Turner Corporation. Particulate matter analyzing apparatus and method. 4,710,021, 12-1-87, Cl. 356-72.000.

Von Benda, Klaus; and Schneider, Claus, to Deutsche Automobilgesellschaft mbH. Metallized synthetic resin fiber electrode structure based on nonwoven fabric for battery electrodes. 4,687,719, 8-18-87, Cl. 429-234.000.

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von Berg, Wolfgang: *See*—
Wahl, Georg; and von Berg, Wolfgang, 4,662,175, Cl. 60-337.000.

von Bernus, Ludwig; Bogelein, Georg; and Waldhutter, Rudolf, to Kraftwerk Union Aktiengesellschaft. Method for testing parts, especially of nuclear plants, by means of eddy current. 4,687,992, 8-18-87, Cl. 324-232.000.

von Bernuth, Hans-Dietrich; and Heine, Franz, to O&K Orenstein & Koppel Aktiengesellschaft. Multi-function directional handle. 4,645,030, 2-24-87, Cl. 180-333.000.

von Bittera, Miklos; Schapel, Dietmar; von Gizycki, Ulrich; and Rupp, Roland, to Bayer Aktiengesellschaft. Self-adhesive sheet-like structures, process for their preparation and their use. 4,661,099, 4-28-87, Cl. 604-290.000.

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Weber, Klaus; and von Blanckenhagen, Peter, 4,669,660, Cl. 239-102.200.

von Bluchet, Hubert: Carbon-containing protective fabrics. 4,677,019, 6-30-87, Cl. 428-244.000.

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Wegner, Christian; Schneider, Gottfried; Lanzke, Hans-Ulrich; Mayer, Wolfram; Wagner, Kuno; von Bonin, Wulf; von Gizycki, Ulrich; and Schaepel, Dietmar, 4,676,234, Cl. 128-90.000.

von Borries, Horst: *See*—
Zichner, Ludwig; Dorre, Erhard; Prussner, Peter; and von Borries, Horst, 4,662,889, Cl. 623-20.000.

von Braunhut, Harold: Spring whip defensive mechanism having means to permit disassembly thereof. 4,687,131, 8-18-87, Cl. 231-2.00R.

von Broock, Ulrich, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Hydraulically damping bearing. 4,705,410, 11-10-87, Cl. 384-99.000.

von Broock, Ulrich; and Hawener, Jurgen, to Dr. Ing.h.c.F. Porsche Aktiengesellschaft. Propulsion unit suspension for vehicles, especially for propeller driven aircrafts. 4,706,901, 11-17-87, Cl. 244-54.000.

von Buelow, John; and Hauser, Stephen G., to United States Borax & Chemical Corporation. Wall-mounted soap dispenser. 4,662,195, 5-5-87, Cl. 70-139.000.

von Buelow, John: *See*—
Tella, Sherwood T.; Cameron, Allan L.; von Buelow, John; and Hauser, Stephen G., 4,650,095, Cl. 222-153.000.
Villalobos, Luis; Hirsch, Steven B.; Hauser, Steven G.; and von Buelow, John, 4,644,326, Cl. 340-365.00R.

von Campenhausen, Rolf: *See*—
Jarnestedt, Goran; and von Campenhausen, Rolf, 4,639,935, Cl. 375-11.000.

von Charzewski, Cornelia: *See*—
Presser, Wolfgang; and von Charzewski, Cornelia, 4,636,350, Cl. 376-226.000.

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De Graaff, Hendrik C.; and Voncken, Wilhelmus G., 4,697,199, Cl. 357-23.130.

von Daehne, Welf, to Leo Pharmaceuticals. Process for the preparation of pure 6-β-halopenicillanic acids and salts thereof. 4,672,114, 6-9-87, Cl. 540-310.000.

von dem Hagen, Tronje; and Wallroth, Carl F., to Dragerwerk Aktiengesellschaft. Gas metering device for medical apparatus. 4,651,730, 3-24-87, Cl. 128-204.210.

Vonderau, Werner: *See*—
Holderle, Hans; Wolf, Jurgen; Eckhart, Horst; and Vonderau, Werner, 4,711,225, Cl. 123-590.000.

von der Decken, Claus-Benedict: *See*—
Iniotakis, Nicolaos; Frohling, Werner; Kalawrytinos, Georg; and von der Decken, Claus-Benedict, 4,643,832, Cl. 210-712.000.
Iniotakis, Nicolaos; von der Decken, Claus-Benedict; Hecker, Rudolf; Frohling, Werner; and Schulten, Rudolf, 4,673,547, Cl. 376-314.000.
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Iniotakis, Nicolas; von der Decken, Claus-Benedict; Frohling, Werner; Schoeller, Jochen; and Grossman, Hermann, 4,655,797, Cl. 55-16.000.
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von der Eltz, Hans-Ulrich; Maier, Hans-Peter; and Rostermundt, Karl-Heinz. Pad cold-dwell process for dyeing wool piece goods with reactive dyes under acid pH. 4,701,182, 10-20-87, Cl. 8-533.000.

von der Embse, U. A., to Hughes Aircraft Company. Receiver mode control for acquiring and tracking a signal. 4,689,806, 8-25-87, Cl. 375-111.000.

von der Embse, U. A., to Hughes Aircraft Company. Data communications receiver operable in highly stressed environments. 4,706,263, 11-10-87, Cl. 375-96.000.

Vondergoltz, G. Earl; and Hammack, Milton E., to ECI Building Components, Inc. Metal building panel with standing seam edge formations. 4,694,628, 9-22-87, Cl. 52-528.000.

von der Heide, Hans. Speed-controlled apparatus for cutting and taking out blocks from a silo fodder bin. 4,644,657, 2-24-87, Cl. 30-379.500.

von der Heide, Hans. Method and apparatus for cutting particularly compacted crop harvest or silage material. 4,664,009, 5-12-87, Cl. 83-747.000.

von der Heide, Hans. Pickup and delivery truck for silage, straw and similar material. 4,666,091, 5-19-87, Cl. 241-101.700.

von der Heide, Johann, to Papst-Motoren GmbH & Co. KG. Linear DC motor. 4,638,192, 1-20-87, Cl. 310-12.000.

von der Heide, Johann; Muller, Rolf; and Korner, Ernst-Moritz, to Papst-Motoren GmbH & Co. KG. Electric motor, particularly a brushless direct current motor. 4,647,803, 3-3-87, Cl. 310-51.000.

von der Heide, Johann; Korner, Ernst-Moritz; Muller, Edgar; and Muller, Rolf, to Papst-Motoren GmbH & Co. KG. Pulse generator in storage drives. 4,651,241, 3-17-87, Cl. 360-97.000.

Vondernau, Werner; Weber, Jurgen; Nickel, Hans; Wissmann, Michael; and Schliemann, Harald, to Stihl, Andreas. Two-stroke engine. 4,696,264, 9-29-87, Cl. 123-73.00V.

von der Wall, Klaus: *See*—
Gerloff, Klaus; Ehlert, Dieter; and von der Wall, Klaus, 4,694,873, Cl. 152-380.000.

von Dewitz, Albrecht. Device to secure shoulder straps of a rucksack. 4,660,751, 4-28-87, Cl. 224-210.000.

von Dohlen, Helga E., executrix: *See*—
Bartley, William J.; and von Dohlen, Verner C., deceased, 4,687,877, Cl. 585-516.000.

von Dohlen, Werner C., deceased: *See*—
Bartley, William J.; and von Dohlen, Werner C., deceased, 4,687,877, Cl. 585-516.000.

Vondracek, Bohumir: *See*—
Smidrkal, Jan; Simunek, Jaroslav; Tolman, Jiri; Soucek, Jiri; Novacek, Alois; Novak, Jan; Krob, Vaclav; Kovar, Pavel; Klofec, Miroslav; and Vondracek, Bohumir, 4,637,894, Cl. 252-186.400.

Vondracek, Petr: *See*—
Sulc, Jiri ; Vondracek, Petr; and Lopour, Petr, 4,696,974, Cl. 525-92.000.

von Dulong, F. Olaf; and Herr, Richard W., to Eutec Ltd. Adjustable leg for supporting a table. 4,655,426, 4-7-87, Cl. 248-405.000.

von Eckardstein, Karl-Ernst, to Friedrich Wilh. Schwing GmbH. Method and apparatus for pneumatically discharging hydromechanically conveyed hydraulic building material for underground operations. 4,708,288, 11-24-87, Cl. 239-9.000.

von Flue, Peter, to Hilti Aktiengesellschaft. Device for dispensing the contents of cartridges. 4,676,410, 6-30-87, Cl. 222-327.000.

Von Fulger, Charles; and Lou, Wen C., to General Foods Corporation. Process for preparing heat stable fermented malt flavorant. 4,663,168, 5-5-87, Cl. 426-28.000.

Von Gentzkow, Wolfgang; Markert, Helmut; Hauschildt, Hans; and Schmiedel, Manfred, to Siemens Aktiengesellschaft. Method for radical cross-linking of organic polymers. 4,635,019, 1-20-87, Cl. 522-104.000.

von Gizycki, Ulrich: *See*—
Muller, Hanns P.; Clarenz, Werner; von Gizycki, Ulrich; and Wagner, Kuno, 4,639,502, Cl. 528-45.000.
Sirinyan, Kirkor; Wolf, Gerhard D.; von Gizycki, Ulrich; and Merten, Rudolf, 4,636,441, Cl. 428-447.000.
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Wegner, Christian; Schneider, Gottfried; Lanzke, Hans-Uwe; Mayer, Wolfram; Wagner, Kuno; von Bonin, Wulf; von Gizycki, Ulrich; and Schaepel, Dietmar, 4,676,234, Cl. 128-90.000.

von Gratz, Jochen G.: *See*—
Prochazka, Josef; and von Gratz, Jochen G., 4,671,914, Cl. 264-118.000.

von Gruenber, Hubertus: *See*—
Kircher, Dieter; von Gruenber, Hubertus; and Blum, Klaus D., 4,702,531, Cl. 303-114.000.

von Gruenberg, Hubertus: *See*—
Kircher, Dieter; von Gruenberg, Hubertus; Blum, Klaus D.; and Becker, Peter, 4,658,939, Cl. 188-156.000.

von Gunten, Marc K.: *See*—
DeBell, Gary W.; Wright, David L.; Ruddock, Kenneth A.; Petersen, Alan B.; Carlson, Lee R.; and von Gunten, Marc K., 4,685,110, Cl. 372-103.000.

von Hagen, Wolf R., to Union Special G.m.b.H. Looper thread control with anti-spin cutting knives. 4,633,795, 1-6-87, Cl. 112-248.000.

Vonhausen, Georg, to General Motors Corporation. Valve actuator. 4,638,977, 1-27-87, Cl. 251-248.000.

Vonhausen, Robert: *See*—
Machate, Rainer; Vonhausen, Robert; and Hansen, Eckhard, 4,685,733, Cl. 297-284.000.

von Heimburg, Henning: *See*—
Eisenberg, Helmut; von Heimburg, Henning; Weber, Friedhelm; Beste, Achim; and Vorderbrack, Dirk, 4,705,215, Cl. 238.349.000.

Von Heliens, Walter; Mohammed, Sheikh A. H.; and Hallman, Robert, to Polysar Limited. EPDM elastomeric compositions. 4,645,793, 2-24-87, Cl. 524-518.000.

Von Holdt, John W. Mold for manufacturing flanged objects without side action. 4,648,834, 3-10-87, Cl. 425-556.000.

Von Holdt, John W. Molded plastic container with inner tubular member. 4,653,669, 3-31-87, Cl. 222-90.000.

Von Holdt, John W. Mold pin lock. 4,702,456, 10-27-87, Cl. 249-165.000.

Von Holdt, John W. Molded pull fitting. 4,706,838, 11-17-87, Cl. 220-270.000.

Von Holdt, John W. Safety mold lift lock. 4,706,926, 11-17-87, Cl. 249-169.000.

von Holst, Johan P.: *See*—
Oskarsson, Rolf G.; von Holst, Johan P.; and Eriksson, Erik G., 4,698,205, Cl. 419-5.000.

von Kleinsorgen, Reinhard, to Schwan-Stabilo Schwanhausser GmbH & Co. Cosmetic stick for a powder pencil. 4,669,492, 6-2-87, Cl. 132-79.00C.

von Kleinsorgen, Reinhard, to Schwan-Stabilo Schwanhausser GmbH & Co. Cosmetic stick for a powder pencil. 4,714,085, 12-22-87, Cl. 132-88.700.

von Koch, Arwed, to Daimler-Benz Aktiengesellschaft. Coupling between at least two members to be subjected to high thermal stress. 4,702,503, 10-27-87, Cl. 285-330.000.

Von Kohorn, David: *See*—
Von Kohorn, Henry; and Von Kohorn, David, 4,672,513, Cl. 362-32.000.

Von Kohorn, Henry; and Kydonieus, Agni F., to Herculite Protective Fabrics Corporation. Dispensers for the controlled release of pest controlling agents and methods for combatting pests therewith. 4,639,393, 1-27-87, Cl. 428-304.400.

Von Kohorn, Henry; and Kydonieus, Agnia F., to Herculite Protective Fabrics Corporation. Dispensers for the controlled release of pest controlling agents and method for combatting pest therewith. 4,666,767, 5-19-87, Cl. 428-304.400.

Von Kohorn, Henry; and Von Kohorn, David. Illuminating system for three-dimensional objects. 4,672,513, 6-9-87, Cl. 362-32.000.

Von Kohorn, Henry. Apparatus for illuminating centripetally viewed three-dimensional objects. 4,686,611, 8-11-87, Cl. 362-123.000.

von Kunszberg, Eberhard: *See*—
Koch, Paul; and von Kunszberg, Eberhard, 4,673,499, Cl. 210-295.000.

von Laar, Klaus; Heberlein, Werner; and Winter, Cavit, to Diehl GmbH & Co. Pivoting projectile loading chamber for high angle firing weapons. 4,660,458, 4-28-87, Cl. 89-25.000.

von Laar, Klaus; Machmer, Wilhelm; and Winter, Cavit, to Diehl GmbH & Co. Weapon system with barreled weapon in an armored vehicle. 4,669,357, 6-2-87, Cl. 89-40.020.

Vonlanthen, Christian: *See*—
Renner, Alfred; and Vonlanthen, Christian, 4,709,047, Cl. 548-435.000.

von Lersner, Wolf A., to Campbell Soup Company. Filler for aseptic dispensing of particulate garnish. 4,676,279, 6-30-87, Cl. 141-1.000.

von Matuschka, Alfred G.; and Trausner, Norbert, to Elektroschmelzwerk Kempten GmbH. Process for boriding metals and metal alloys by means of solid boriding agents. 4,637,837, 1-20-87, Cl. 148-6.000.

von Matuschka, Alfred G.; Liethschmidt, Klaus; Webert, Hubertus; and Kohler, Emil K., to Elektroschmelzwerk Kempten GmbH. Kiln furniture. 4,715,812, 12-29-87, Cl. 432-258.000.

von Maydell, Ignaz; Detlefsen, Juergen; and Blaha, Alfred, to Messerschmitt-Bolkow-Blohm GmbH. Method and system for detecting and combating covered ground targets. 4,675,677, 6-23-87, Cl. 342-25.000.

Von Meer, Walter P. M., to Felix Schoeller Jr. GmbH & Co., KG. Photographic paper support. 4,675,245, 6-23-87, Cl. 428-328.000.

Von Meyerinck, Dietz: *See—*
Von Meyerinck, Wolfgang; and Von Meyerinck, Dietz, 4,653,554, Cl. 141-387.000.
von Meyerinck, Wolfgang; and von Meyerinck, Dietz, 4,658,873, Cl. 141-387.000.
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von Meyerinck, Wolfgang; and von Meyerinck, Dietz. Fueling system, in particular for aircraft fueling. 4,658,873, 4-21-87, Cl. 141-387.000.

von Meyerinck, Wolfgang; and von Meyerinck, Dietz. Fueling arm. 4,658,874, 4-21-87, Cl. 141-387.000.

von Minden, Charles: *See—*
Schultheiss, Georg; von Minden, Charles; and Fritzke, Hans W., 4,642,300, Cl. 501-124.000.

Von Moll, Brent L.: *See—*
Braun, William G.; Palin, Philip R.; Von Moll, Brent L.; and Lai, Tony F. L., 4,671,794, Cl. 604-240.000.

Vonnegut, Bernard, to Research Foundation of State University of New York, The. Oscillatory anemometer. 4,671,108, 6-9-87, Cl. 73-189.000.

von Niederhausern, Francis, and Matthias, Eugen, to VN SA Electronics. Numerical control device for automatic lathe. 4,656,897, 4-14-87, Cl. 82-2.000.

von Ohain, Hans P.: *See—*
Minardi, John E.; and von Ohain, Hans P., 4,689,950, Cl. 60-204.000.

von Ondarza, Leon, to H. Krantz GmbH & Co. Process for the treatment of knitware. 4,706,315, 11-17-87, Cl. 8-155.100.

von Philipp, Fritz; and Hautmann, Horst, to Globol Werk GmbH. Device for adding disinfectants or the like to the flushing water of a WC. 4,707,866, 11-24-87, Cl. 4-228.000.

Von Quilich, Michael: *See—*
Tomlinson, Dick; and Von Quilich, Michael, 4,658,442, Cl. 2-94.000.

von Ramm, Olaf T.; and Smith, Stephen W. Three-dimensional imaging system. 4,694,434, 9-15-87, Cl. 367-7.000.

von Rauch, Moritz, to Siemens Aktiengesellschaft. Pressure difference measuring device with a semiconductor pressure sensor. 4,637,257, 1-20-87, Cl. 73-706.000.

Von Ritter, Michael: *See—*
Keller, Hans W.; and Von Ritter, Michael, 4,715,003, Cl. 364-571.000.

von Roos, Oldwig, to United States of America, National Aeronautics and Space Administration. Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor. 4,661,770, 4-28-87, Cl. 324-158.00D.

von Rybinski, Wolfgang; and Kleiner, Erna, to Henkel Kommanditgesellschaft auf Aktien. Coal suspension flowability improvers. 4,652,271, 3-24-87, Cl. 44-51.000.

von Rybinski, Wolfgang; Tesmann, Holger; and Dobias, Bohuslav, to Henkel Kommanditgesellschaft auf Aktien. Process for dressing kaolinite by flotation. 4,714,544, 12-22-87, Cl. 209-167.000.

von Sawilski, Joachim: *See—*
Bartsch, Adalbert; von Sawilski, Joachim; and Michalek, Bernd, 4,670,124, Cl. 204-281.000.

von Schenck, Raban: *See—*
Roos, Wouter; Damman, Bernardus J.; Lagendijk, Arie; Steidl, Dieter; and von Schenck, Raban, 4,670,244, Cl. 423-659.000.

von Schnering, Hans-Georg: *See—*
Betz, Thomas; von Schnering, Hans-Georg; and Schonherr, Erich, 4,692,203, Cl. 156-610.000.

von Schuckmann, Alfred. Dispenser with finger slot. 4,708,507, 11-24-87, Cl. 401-171.000.

von Seyerl, Joachim, to SKW Trostberg Aktiengesellschaft. Process for hardening epoxide resin masses and a hardener solution therefor. 4,705,842, 11-10-87, Cl. 528-88.000.

von Sichart, Frithjof; and Eberspacher, Jorg, to Siemens Aktiengesellschaft. Method for transmitting data in a telecommunications exchange. 4,661,95_, 4-28-87, Cl. 370-91.000.

von Sichart, Frithjof, to Siemens Aktiengesellschaft. Complementary metal-oxide-semiconductor input circuit. 4,682,047, 7-21-87, Cl. 307-203.00B.

von Sivers, Rolf; Havemann, Kim; and Ilsemann, Bernhard, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Four-wheel drive arrangement for motor vehicles. 4,690,238, 9-1-87, Cl. 180-248.000.

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von Sivers, Rolf: *See—*
Ziegler, Gerhard; Gregotsch, Karl; and von Sivers, Rolf, 4,640,240, Cl. 123-193.00C.

von Sothen, Heinrich F.; and Visser, Leendert, to Anton Filler GmbH & Co. KG. Cable drum driven by an electric motor. 4,661,86_, 4-28-87, Cl. 191-12.20A.

von Sprecher, Andreas; Ernest, Ivan; Main, Alan J.; and Beck, Andreas, to Ciba-Geigy Corporation. Aliphatic thioethers. 4,649,215, 3-10-87, Cl. 560-152.000.

Von Stein, Christian: *See—*
Hussain, Amir; Von Stein, Christian; and Pflugbeil, Christa, 4,665,111, Cl. 523-428.000.

von Stein, Walter, to Erwin Sick GmbH Optik Elektronik. Optical thread breakage monitoring apparatus. 4,691,647, 9-8-87, Cl. 112-80.180.

von Stetten, Otto; Seth, Pyare L.; Schmid, Franz; and Rauchle, Kurt, to Merckle GmbH. Liquid diclofenac preparations. 4,711,906, 12-8-87, Cl. 514-561.000.

von Struensee, Detlef: *See—*
Lipp, Alfred; Reinmuth, Klaus; and von Struensee, Detlef, 4,684,480, Cl. 252-478.000.

Vontell, John H.; and Pike, Roscoe A., to United Technologies Corporation. Method for depositing a layer of abrasive material on a substrate. 4,680,199, 7-14-87, Cl. 427-199.000.

von Tobel, Hans-Rudolf; and Doswald, Paul, to Sandoz Ltd. Mixtures of copper complexes of disazo compounds 4,4'-(3,3'-dihydroxybiphenylene) tetrazo component and disulfonaphthol and 3-sulfo-6(2-chloro-4'-chloro or hydroxy-1,3,5-triazin-6'-ylamino)-naphth-1-ol coupling component. 4,699,626, 10-13-87, Cl. 8-549.000.

Von Tomkewitsch, Sibylle: *See—*
Steinberger, Rolf; Schlag, Johannes; Schlichting, Karl; Seile, Erhard; Von Tomkewitsch, Sibylle; and Schmidt, Hans-Fredrich, 4,655,964, Cl. 252-511.000.

Von Voigtlander, Philip F., to Upjohn Company, The. Trans-(+)-2-(3,4-dichlorophenyl)-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-acetamide, and salts thereof as CNS anti-seizure drugs. 4,663,318, 5-5-87, Cl. 514-359.000.

von Voithenberg, Hubertus: *See—*
Gilch, Heinz; von Voithenberg, Hubertus; and Rengel, Reinhard, 4,661,542, Cl. 524-59.000.

Von Volkli, Arthur D., to Boeing Company, The. Male layup-female molding system for fabricating reinforced composite structures. 4,693,678, 9-15-87, Cl. 425-405.00R.

von Wedel, Rudiger: *See—*
Frauenfeld, Martin; and von Wedel, Rudiger, 4,651,811, Cl. 165-10.000.

von Werner, Konrad: *See—*
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von Wimmersperg, Heinrich F. Lock for vehicle infant restraint. 4,640,545, 2-3-87, Cl. 297-216.000.

von Winckelmann, Ernst: *See—*
MacDonald, Richard L.; and von Winckelmann, Ernst, 4,680,720, Cl. 239-17.000.

Vooge, Daryl L.; and Bare, Jeffery E. Insulated building block handling tool. 4,705,312, 11-10-87, Cl. 294-62.000.

Voorhees, John L., to Productive Products Limited. Child harness. 4,699,090, 10-13-87, Cl. 119-96.000.

Voorhees, Theodore. Foil applicator. 4,696,714, 9-29-87, Cl. 156-468.000.

Voorheis Industries, Inc.: *See—*
Voorheis, James T., 4,652,234, Cl. 431-281.000.
Voorhees, James T., 4,690,639, Cl. 432-105.000.

Voorheis, James T., to Voorheis Industries, Inc. Constant pressure-variable orifice burner nozzle assembly. 4,652,234, 3-24-87, Cl. 431-281.000.

Voorhees, James T., to Voorheis Industries, Inc. Constant pressure variable orifice burner nozzle assembly. 4,690,639, 9-1-87, Cl. 432-105.000.

Voorhies, Kenny R., to GTE Communication Systems Corporation. Circuit for detection of off-hook condition of extension telephones. 4,647,723, 3-3-87, Cl. 379-381.000.

Voorhis, Ray: *See—*
Cholin, John M.; Cholin, Jeffrey G.; and Voorhis, Ray, 4,712,098, Cl. 340-590.000.

Voorhis, Roger; Erbs, Daryl G.; Palmer, John M.; and Marris, Derrick A., to Carrier Corporation. Control module cooling. 4,708,586, 12-1-87, Cl. 62-508.000.

Voorman, Johannes O., to U.S. Philips Corporation. Data signal correction circuit. 4,647,790, 3-3-87, Cl. 307-264.000.

Vopat, Jaroslav: *See—*
Engel, Hans-Joachim; and Vopat, Jaroslav, 4,699,522, Cl. 384-51.000.

Voplex Corporation: *See—*
VanManen, Dick T., 4,693,657, Cl. 411-467.000.

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Camm, David M.; Kjorvel, Arne; Halpin, Nicholas P.; and Housden, Anthony J. D., 4,780,102, Cl. 313-24.000.

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Ahlf, Heinz-Jurgen; Guhne, Wieland; Simm, Hans-Peter; and Wulf, Peter, 4,685,170, Cl. 15-367.000.
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Kamm, Willibald F. G.; and Voss, Siegfried, 4,671,105, Cl. 73-81.000.

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Ehlert, Klaus-Peter; Kubon, Achim; and Voss-Spilker, Peter, 4,633,934, Cl. 164-484.000.
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Neubauer, Jerry L.; Schmidt, Laurence J.; and Voss, Steven H., 4,639,802, Cl. 360-98.000.
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Vossen, Franz, to Meurer Druck & Carton GmbH. Sheet processing apparatus. 4,710,156, 12-1-87, Cl. 493-1.000.

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Bourgonje, Wouter; Janssen, Daniel J. G.; van Reede, Willem A.; and Vossen, Johannes A. A., 4,672,606, Cl. 370-85.000.

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Materna, Anthony T.; Vossler, Roger A.; and Stepczyk, Frank M., 4,714,995, Cl. 364-200.000.

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Eisenberg, Helmut; von Heimburg, Henning; Weber, Friedhelm; Beste, Achim; and Vorderbruck, Dirk, 4,705,215, Cl. 238-349.000.
Overhues, Egon, 4,710,081, Cl. 411-161.000.

Vossman, Robert A. *See*—
Baird, Suzanne K.; Benignus, Douglas M.; Busch, Dennis G.; Jeffries, Astrid P.; Parker, Thomas S.; and Vossman, Robert A., 4,672,574, Cl. 364-900.000.

Vosters, Joseph P., to Appleton Papers Inc. Method and apparatus for wrapping pressure sensitive rolls of material. 4,707,968, 11-24-87, Cl. 53-430.000.

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McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Vavadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,642,968, Cl. 53-425.000.
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Voto, Leonard M., Jr.; and Gillitzer, Richard H., to Adjusta-Mounts, Inc. Adjustable self-inking stamping device. 4,649,819, 3-17-87, Cl. 101-327.000.

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Afford, Bernadette L.; Mao, Jen-I; Moir, Donald T.; Taunton-Rigby, Alison; and Vovis, Gerald F., 4,666,847, Cl. 435-253.000.

Vowell, Kennison L., to Rockwell International Corporation. Duct closure. 4,707,323, 11-17-87, Cl. 376-203.000.

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Voy, Peter A.; and Ihle, Robert D., to Janus Label Corporation. Method for manufacturing discrete elements. 4,661,189, 4-28-87, Cl. 156-248.000.

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Voye, Joseph L., Jr., to Bethlehem Steel Corporation. Method and apparatus for eliminating crescent formation in a reduction mill. 4,656,856, 4-14-87, Cl. 72-11.000.

Vrabel, Robert J.; Vajgart, Jeffery L.; Staszel, Lawrence E.; Ewald, Henry J.; Haygood, Norman M., Jr.; and Misewicz, Leon M., to Ford Motor Company. Motor control circuit for motor driven power windows. 4,678,975, 7-7-87, Cl. 318-266.000.

Vrandecic Perero, Mario O. Heterologous arterial biograft and biological material treating process. 4,671,797, 6-9-87, Cl. 623-1.000.

Vranish, John M.; Bunch, Wayne R.; and Johns, William L., to United States of America, Commerce. Split rail parallel gripper. 4,707,013, 11-17-87, Cl. 294-119.100.

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Groschupp, Karl-Heinz; and Vreeke, Simon P., 4,697,522, Cl. 102-402.000.

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Vreeswijk, Franciscus W. P.; and Tan, Sing L., to U.S. Philips Corporation. Television system and data generator and receiver suitable therefor. 4,704,629, 11-3-87, Cl. 358-142.000.

Vriens, Leendert; Spruit, Johannes H. M.; Rijpers, Johannes C. N.; and Brandsma, Titus E. C., to U.S. Philips Corporation. Display tube provided with an interference filter. 4,634,926, 1-6-87, Cl. 313-474.000.

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Vriens, Leendert; Clark, John A.; and Spruit, Johannes H. M., to U.S. Philips Corporation. Projection television display tube and device having interference filter. 4,683,398, 7-28-87, Cl. 313-474.000.

Vries, Lodewijk B.: *See*—
Baggen, Constant P. M. J.; Driessen, Leonardus M. H. E.; Pollen, Rudy W. J.; and Vries, Lodewijk B., 4,683,572, Cl. 371-37.000.

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Vriesen, Francis W. Chimney cleaner. 4,688,291, 8-25-87, Cl. 15-249.000.

Vrieze, Wubbe, to U.S. Philips Corporation. Low-pressure mercury vapor discharge lamp provided with an amalgam forming alloy. 4,636,686, 1-13-87, Cl. 313-565.000.

Vrignaud, Dorice, to Esswein S.A. Metal stamping tool with working parts removable while on the machine. 4,656,902, 4-14-87, Cl. 83-136.000.

Vrignaud, Dorice, to Esswein, S.A. Press tool provided with a system for guiding and relieving a metal strip. 4,704,890, 11-10-87, Cl. 72-428.000.

Vrijssen, Gerardus A. H. M.; and Van Gorkum, Aart A., to U.S. Philips Corporation. Television camera tube with honeycomb grid electrode. 4,684,994, 8-4-87, Cl. 358-217.000.

Vrijssen, Gerardus A. H. M., to U.S. Philips Corporation. Electron tube envelope assembly with precisely positioned window. 4,710,673, 12-1-87, Cl. 313-477.00R.

Vrijssen, Gerardus A. H. M., to U.S. Philips Corporation. Method of manufacturing a device having an electric resistance layer and the use of the method. 4,713,879, 12-22-87, Cl. 29-620.000.

Vrilakas, Mark: *See*—
Wilson, Louis D.; Jones, Patrick M.; and Vrilakas, Mark, 4,685,231, Cl. 73-478.000.

Vrind, Hendrik C.; Ter Horst, Gerrit H. F.; and Hamer, Henrik J., to Thomassen & Drijver-Verblifa N.V. Apparatus for packing a row of lids and the completed package. 4,669,248, 6-2-87, Cl. 53-229.000.

Vrisakis, Georges: *See*—
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Vriz, Tarcisio: *See*—
Doyen, Daniel; and Vriz, Tarcisio, 4,710,729, Cl. 331-96.000.

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Getman, Harlan R., 4,643,905, Cl. 426-565.000.

Vroom, James W. Assist apparatus for ramps. 4,657,233, 4-14-87, Cl. 267-155.000.

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Dieperink, Willem; and Vruggink, Arend, 4,640,113, Cl. 72-21.000.

Vrzalik, John H., to Kinetic Concepts, Inc. Therapeutic bed support. 4,638,516, 1-27-87, Cl. 5-64.000.

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Simon, Lewis A.; and Scarffe, Michael F., 4,677,756, Cl. 33-514.000.

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Rotermund, Hermann; Wiesmann, Herbert L.; and Leendecker, Arno, 4,676,469, Cl. 248-243.000.

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Babaian, Eduard A.; Gerasimova, Galina A.; Davydov, Anatoly B.; Utyamyshev, Rustam I.; Khromov, Gennady L.; Meteliza, Vladimir I.; Vikhert, Anatoly M.; Savvateev, Konstantin L.; Piotrovsky, Vladimir K.; and Novikova, Elizaveta B., 4,713,239, Cl. 424-81.000.

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Volkhin, Nikolai N.; Ardabatsky, Vladimir P.; Dulya, Boris A.; Zhuravlev, Vitaly P.; and Stepanov, Alexandr V., 4,656,736, Cl. 29-730.000.

Vsesojuznoe Nauchno-Proizvodstvennoe Obiedinenie Tselljulosho-bumazhnoy Promyshlennosti: *See*—
Ivanov, Mikhail A.; Komkov, Jury A.; and Fomina, Vera V., 4,705,870, Cl. 556-149.000.

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Nenakhov, Sergei S.; Tilles, Robert S.; Savinykh, Vitaly V.; Dyakov, Vladimir A.; and Nikitin, Vladimir V., 4,678,076, Cl. 198-525.000.

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Chazov, Evgeny I.; Smirnov, Vladimir N.; Vinogradov, Valentin A.; Titov, Mikhail I.; Penin, Vladimir A.; Gvergadze, Alexandr K.; Titova, Galina P.; Bespalova, Zhanna D.; Pekelis, Boris L.; Permyakov, Nikolai K.; Emelyanov, Sergei I.; and Dzhikia, Alexandr A., 4,695,622, Cl. 530-329.000.
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Brudny-Chelyadinov, Sergei I.; Budyansky, Vigdor S.; and Filimonov, Viktor A., 4,676,716, Cl. 415-144.000.

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Vsesojuzny Nauchno-Issledovatelsky I Konstruktorsky Institut Tsvetmetavtomatika: *See*—
Gluschenko, Nikolai N.; Golikov, Vladislav V.; and Emelyanov, Viktor A., 4,677,864, Cl. 73-863.510.

Vsesojuzny Nauchno-Issledovatelsky I Proektny Institut Mekhanicheskoi Obrabotki Poleznykh Iskopaemykh: *See*—
Zarogatsky, Leonid P.; Ivanov, Nikolai A.; Korolkov, Mikhail F.; Laubgan, Villi R.; and Safronov, Andrei N., 4,655,405, Cl. 241-215.000.

Vsesojuzny Nauchno-Issledovatelsky Institut Genetiki: *See*—
Debabov, Vladimir G.; Tsygankov, Jury D.; Chistoserdov, Andrei J.; Sverdlov, Evgeny D.; Izotova, Lara S.; Kostrov, Sergei V.; Sterkin, Viktor E.; Kuznetsov, Vladimir P.; Belyaev, Sergei V.; Monastyrskaya, Galina S.; Salomatina, Irina S.; Dolganov, Gregory M.; Arsenian, Sergei G.; Tsarev, Sergei A.; Kozlov, Jury I.; Strongin, Alexandr Y.; Ogarkov, Vsevolod I.; and Ovchinnikov, Jury A., 4,680,260, Cl. 435-68.000

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Romanovskaya, Antonina M., 4,653,506, Cl. 128-677.000.

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Baldenko, Dmitry F.; Bezlepkin, Nikolai P.; Vadetsky, Jury V.; Gusman, Mosset T.; Potapov, Jury F.; and Sementes, Valery I., 4,711,006, Cl. 29-156.40R.

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Maximov, Gennady K.; Brusnikin, Arkady F.; Belonosov, Vladimir I.; Popova, Roza A.; Fux, Vladimir S.; Kagan, Vladimir M.; Uralskaya, Silvia L.; and Orlova, Nadezhda P., 4,702,069, Cl. 57-417.000.

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Volkov, Nikolai N.; Ardabatsky, Vladimir P.; and Luzin, Valery V., 4,700,468, Cl. 29-623.200.

VSI Corporation. *See*—
Whitehorn, Sydney H., 4,638,849, Cl. 164-311.000.

VSI Fasteners, Inc.. *See*—
Cugley, Derwyn, 4,687,129, Cl. 229-44.00R.

VSM Associates, Inc.. *See*—
Walsh, John V., 4,713,152, Cl. 204-130.000.

VSP, Inc.. *See*—
Bloom, Leslie E., 4,663,666, Cl. 358-166.000.
Bloom, Leslie E., 4,698,674, Cl. 358-140.000.

VTA Technologies, Inc.. *See*—
Orsburn, Michael L.; Hensky, Robert L.; and Bacon, James L., 4,642,682, Cl. 358-80.000.

VTC Incorporated. *See*—
Boler, Clifford H.; Leake, William W.; Rai, Surinder S.; and Zemke, Gene B., 4,638,187, Cl. 307-451.000.
Solstad, Russell V., 4,689,875, Cl. 437-211.000.
Solstad, Russell V.; Scott, Millard; and Holliday, William, 4,713,611, Cl. 324-158.00F.

VTH AG. *See*—
Fuhlemann, Jorg, 4,686,940, Cl. 122-31.09R.

Vu, Cung, to W. R. Grace & Co. Polyurethane coating composition, 4,710,560, 12-1-87, Cl. 528-67.000.

Vu, Tho T., to Honeywell Inc. Multiple input OR-AND circuit for FET logic, 4,712,022, 12-8-87, Cl. 307-448.000.

Vu, Tho T.; and Lee, Kang W., to Honeywell Inc. Multiple input and multiple output or/and circuit, 4,713,559, 12-15-87, Cl. 307-446.000.

Vu, Thu V., to Harris Corporation. Apparatus for executing Chinese remainder theorem for residue decoding through quotient-remainder conversion, 4,709,345, 11-24-87, Cl. 364-746.000.

Vu, Viet, and Hettwer, Paul F., to Saft Nife Inc. Corrosion resistant mercury-free zinc anode battery, 4,649,093, 3-10-87, Cl. 429-229.000.

Vuarnet. *See*—
Seluk, Daniel C., 4,651,391, Cl. 24-703.000.

Vucevic, Svet O., to Marconi International Marine Company Limited. Stabilized platform arrangement, 4,696,196, 9-29-87, Cl. 74-5.220.

Vucins, Viesturs J.. *See*—
Johansson, Jan U. S.; Forsberg, Gunnar S.; and Vucins, Viesturs J., 4,636,029, Cl. 350-96.160.

Vuick, Michael C. Golf swing training apparatus, 4,659,084, 4-21-87, Cl. 273-183.00B.

Vuillaume, Andre. Device for the manufacture of non-woven fabrics with impressed or embossed designs, 4,691,417, 9-8-87, Cl. 28-105.000.

Vuillaume, Andre.. *See*—
Kenworthy, Ian C.; Gettins, Robert B.; Logan, Peter W.; Jeambar, Patrick; and Vuillaume, Andre, 4,666,290, Cl. 425-86.000.

Vuillaume, Pierre; and Gaston, Didier, to Chaibonnages de France. Detonation arrestor device for bulk explosive materials transfer, 4,699,060, 10-13-87, Cl. 102-313.000.

Vuillemey, Georges. *See*—
Perrot, Pierre; and Vuillemey, Georges, 4,710,535, Cl. 524-413.000.

Vuillermoz, Maxime L.. *See*—
Roberts, John P.; and Vuillermoz, Maxime L., 4,644,783, Cl. 73-116.000.

Vuilleumier, Cyril, and Erni, Bruno, to Tisso S.A. Universal time piece, 4,634,287, 1-6-87, Cl. 368-27.000.

Vuilleumier, Cyril, to ETA S.A. Fabriques d'Ebauches. Intermittent driving arrangement for a time indicator, 4,676,659, 6-30-87, Cl. 368-37.000.

Vukmanic, Ronald W., to Chicago Metallic Corporation. Suspended ceiling system and runner, 4,677,802, 7-7-87, Cl. 52-488.000.

Vukmanic, Ronald W., to Chicago Metallic Corporation. Centering arrangement for T members of a suspended ceiling, 4,712,350, 12-15-87, Cl. 52-484.000.

Vulcan Equipment Company, Ltd.. *See*—
Bubik, Leslie, 4,637,623, Cl. 280-402.000.

Vulcan-Hart Corporation. *See*—
Sank, Gerald W., 4,690,127, Cl. 126-391.000.
Scanlon, John M., 4,700,619, Cl. 99-349.000.

Vulcan Tool Company. *See*—
Horn, Charles, Kelly, Rickey L.; Orendorf, Thomas E.; and Kiger, Terry L., 4,654,309, Cl. 414-224.000.
Horn, Charles, deceased; and Jenkins, William R., 4,709,574, Cl. 72-405.000.

Vulcano, Vincent. Book counter, 4,697,486, 10-6-87, Cl. 83-79.000.

Vulchev, Alexander Y.. *See*—
Bakaliv, Nikolay G.; Penev, Penyo I.; Ivanov, Ivan K.; Velev, Velyo T.; Savov, Peter H.; and Vulchev, Alexander Y., 4,703,493, Cl. 373-95.000.

Vulgaris, George. *See*—
Guscott, John K.; and Vulgaris, George, 4,709,151, Cl. 250-342.000.

Vulink, Henricus H. M.. *See*—
Bekkering, Hendrik M.; and Vulink, Henricus H. M., 4,661,098, Cl. 604-135.000.

Vullierme, Paul, to Etablissements Vullierme S.A. Plastic adjustable roller skate, 4,708,352, 11-24-87, Cl. 280-11.260.

Vulnas International Limited. *See*—
Sambuis, Bernard; and Gavory, Daniel, 4,638,026, Cl. 524-98.000.

Vuorinen, Olavi. *See*—
Kukka, Aarre; Tervamaki, Jukka; Nikulin, Heikki; and Vuorinen, Olavi, 4,684,250, Cl. 356-246.000.

Vutshkov, Nikolay K.. *See*—
Sabotinov, Nikola V.; Vutshkov, Nikolay K.; and Astadjov, Dimo N., 4,635,271, Cl. 372-61.000.

VXR, Inc.. *See*—
Young, Michael W.; Founds, Henry W.; and Zek, Peter, Jr., 4,668,632, Cl. 435-284.000.

Vxtra Corp.. *See*—
Williams, Rodger W.; and Atwood, Charles W., 4,711,352, Cl. 206-365.000.

Vyas, Dolatrai M.; and Skomezny, Paul M., to Bristol-Myers Company. Intermediates for the production of epipodophyllotoxin and related compounds and processes for the preparation and use thereof, 4,644,072, 2-17-87, Cl. 549-433.000.

Vyas, Dolatrai M.; Chiang, Yulin; and Doyle, Terrence W., to Bristol-Myers Company. Amino disulfides, 4,691,023, 9-1-87, Cl. 548-422.000.

Vyas, Dolatrai M.; Doyle, Terrence W.; and Chiang, Yulin, to Bristol-Myers Company. Trichloroethanimidic acid esters, 4,692,538, 9-8-87, Cl. 558-6.000.

Vyas, Dolatrai M.. *See*—
Kaplan, Murray A.; and Vyas, Dolatrai M., 4,639,528, Cl. 548-422.000.

Vyas, Harihar J.. *See*—
Groner, Gabriel F.; Dorsey, Eric A.; Williams, Keith M.; and Vyas, Harihar J., 4,659,877, Cl. 379-88.000.
Groner, Gabriel F.; Dorsey, Eric A.; Williams, Keith M.; and Vyas, Harihar J., 4,716,583, Cl. 379-88.000.

Vyas, Mahesh K. R., to International Standard Electric Corporation. Method of a forming a secondary coating on an optical fiber, 4,671,905, 6-9-87, Cl. 264-1.500.

Vydyanath[1] Honnavalli R.. *See*—
Abbott, Richard C.; and Vydyanath, Honnavalli R., 4,697,543, Cl. 118-412.000.

Vyhna, Richard F.. *See*—
Gnanamuthu, Daniel S.; Moores, Ralph J.; Paton, Neil E.; and Vyhna, Richard F., 4,716,270, Cl. 219-121.01.M.

Vykukal, Hubert C., to United States of America, National Aeronautics and Space Administration. Weightlessness simulation system and process, 4,678,438, 7-7-87, Cl. 434-34.000.

Vyne, Robert L., to Motorola, Inc. Operational amplifier circuit utilizing resistors trimmed by metal migration, 4,683,442, 7-28-87, Cl. 330-261.000.

Vyne, Robert L.; and Susak, David M., to Motorola, Inc. JFET pinch off voltage proportional reference current generating circuit, 4,716,356, 12-29-87, Cl. 323-312.000.

Vyne, Robert L.. *See*—
Davis, William F.; and Vyne, Robert L., 4,713,680, Cl. 357-51.000.
Susak, David M.; and Vyne, Robert L., 4,713,626, Cl. 330-253.000.

Vyplel, Hermann. *See*—
Berner, Heinz; and Vyplel, Hermann, 4,675,330, Cl. 514-365.000.

Vyrzhikovskaya, Marina N.. *See*—
Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; and Vyrzhikovskaya, Marina N., 4,643,712, Cl. 604-4.000.
Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; Vyrzhikovskaya, Marina N.; and Smirnov, Boris A., 4,655,218, Cl. 128-321.000.
Kulik, Yaroslav P.; Shmyrin, Ivan I.; Utyamyshev, Rustam I.; Vyrzhikovskaya, Marina N.; and Smirnov, Boris A., 4,667,657, Cl. 128-20.000.

Vyse, Barry. *See*—
Moran, Peter; and Vyse, Barry, 4,672,418, Cl. 357-70.000.

Vyskumny ustav zvaracsky. *See*—
Blaskovits, Pavol; Lesnak, Stefan; Mariusk, Alojz; Zajac, Jan; Slavkovsky, Jan; Turiansky, Ladislav; and Levius, Rudolf, 4,707,581, Cl. 219-73.110.

Vysoka skola chemicko-technologicka. *See*—
Matejka, Zdenek; and Eliasek, Jaroslav, 4,664,810, Cl. 210-672.000.
Najmr, Stanislav; Jerman, Zdenek; and Kralicek, Jaroslav, 4,685,935, Cl. 23-304.000.

Vysoka skola strojni a textilni. *See*—
Krejcir, Oldrich; Zajic, Bohuslav; and Saroun, Pavel, 4,706,923, Cl. 248-638.000.

Vyzkumny ustav mzenierskych stavieb. *See*—
Cernak, Boris; and Klein, Karol, 4,634,316, Cl. 405-229.000.

W & A Bates Limited. *See*—
Goodfellow, Anthony G., 4,673,457, Cl. 156-415.000.

Goodfellow, Anthony G.; and Wright, Anthony R., 4,714,505, Cl. 156-64.000.
Trethowan, Jack, 4,637,644, Cl. 294-97.000.
W.A. Deutsher Proprietary Limited: *See*—
Lance, Mark A., 4,709,651, Cl. 116-137.00R.
W.A.S. Vending, Inc.: *See*—
Stockman, Wayne A., 4,671,455, Cl. 232-1.00D.
W. A. Whitney Corp.: *See*—
Scott, William B., 4,649,622, Cl. 29-568.000.
W. Braun Company: *See*—
Rosenwinkel, Karen W., 4,664,547, Cl. 401-175.000.
W. C. Bradley Company: *See*—
Hitch, Robert J., 4,703,746, Cl. 126-25.00R.
W. C. Heraeus GmbH: *See*—
Deckelmann, Karl; Hornung, Jurgen; Jones, Graham S.; Kersting, Roland; Reynolds, Quentin; and Tattl, Ino, 4,689,270, Cl. 428-432.000.
Elster, Werner; Koch, Horst; Ost, Gustav; Simon, Werner; Deckelmann, Karl; and Tattl, Ino, 4,659,986, Cl. 324-158.00F.
Opower, Hans, 4,646,314, Cl. 372-95.000.
Opower, Hans, 4,688,229, Cl. 372-87.000.
Reynolds, Quentin M., 4,646,057, Cl. 338-312.000.
Sturm, Walter; Becker, Helmut; Witt, Jurgen; Fritz, Werner; and Eysholt, Ursula, 4,644,166, Cl. 250-372.000.
Wild, Wolfgang; Straub, Joachim; and Landgraf, Gunter, 4,713,512, Cl. 219-10.55E.
Witting, Karin; Poss, Dieter; and Schnabl, Rudolf, 4,680,438, Cl. 200-268.000.
W & C Pantin Ltd.: *See*—
Avey, Kenneth F. C., 4,696,616, Cl. 414-417.000.
W. C. Wolff Company: *See*—
Wolff, Walter C., Sr.; and Wolff, Walter C., Jr., 4,693,027, Cl. 42-59.000.
W. E. Bassett Company, The: *See*—
Gamble, William L., 4,640,011, Cl. 30-28.000.
W. Eckold AG: *See*—
Molz, Theodor, 4,712,406, Cl. 72-23.000.
W&F Manufacturing, Inc.: *See*—
Fleming, Paul D.; and O'Day, David L., 4,671,089, Cl. 70-452.000.
W. F. Meyers Company, Inc.: *See*—
Fish, Donald D., 4,679,541, Cl. 125-21.000.
W. Gunther GmbH: *See*—
Gunther, Walter, 4,639,563, Cl. 200-61.45M.
W. H. Brady Co.: *See*—
Aufderheide, Brian E., 4,714,631, Cl. 427-250.000.
Ciocarelli, Mary E.; and Palmer, Nancy P., 4,676,446, Cl. 242-55.530.
Hupfer, Bruce A.; and Hubert, James F., 4,686,144, Cl. 428-421.000.
Maser, Thomas L., 4,683,360, Cl. 200-314.000.
Wirth, Gary J.; Behlmer, Robert F.; and Hoyt, Steven D., 4,655,129, Cl. 101-35.000.
W. Haking Enterprises Limited: *See*—
Raschke, Klaus, 4,681,416, Cl. 354-173.100.
Raschke, Klaus, 4,687,314, Cl. 354-400.000.
Wong, Wai C., 4,710,013, Cl. 354-419.000.
W. Hegenscheidt GmbH: *See*—
Lung, Dieter; Kluft, Werner; Fabry, Jochen; Wittkopp, Helmut; Dombrowski, Theodor; and Klosterhalfen, Hartwig, 4,711,146, Cl. 82-1.00C.
W.L.G. Technology: *See*—
Webb, Richard E.; and L'Hommedieu, Charles S., 4,676,241, Cl. 128-207.140.
W. L. Gore & Associates, Inc.: *See*—
Hansel, George A., III, 4,707,040, Cl. 439-510.000.
Johnson, Daniel D., 4,680,220, Cl. 428-241.000.
W. M. Still & Sons Limited: *See*—
Hayes, Cecil, 4,653,389, Cl. 99-280.000.
Hayes, Cecil, 4,653,390, Cl. 99-281.000.
Snowball, Malcolm R.; and Hayes, Cecil, 4,682,537, Cl. 99-282.000.
W-N Apache Corporation: *See*—
Adair, Harold L., 4,708,581, Cl. 414-786.000.
Haney, Keith M.; and Willis, Clyde A., 4,650,236, Cl. 294-110.100.
W. P. Hickman Company: *See*—
Hickman, John B., 4,662,129, Cl. 52-96.000.
Webb, Russell; and Hickman, John B., 4,641,476, Cl. 52-60.000.
W. R. Grace & Co.: *See*—
Anderman, Menahem; and Lundquist, Joseph T., 4,654,281, Cl. 429-209.000.
Blakeman, Peter J.; Johnson, Terence R.; and Pfeiffer, Claes F. H., 4,699,810, Cl. 427-244.000.
Block, Jacob, 4,666,614, Cl. 252-8.512.
Cheng, Wu-Cheng; and Donnelly, Richard G., 4,705,767, Cl. 502-167.000.
Chmurny, Alan B.; Gross, Akiva T.; Kupper, Robert J.; and Roberts, Rowena L., 4,710,583, Cl. 560-40.000.
Cornelison, Richard C.; and Retallick, William B., 4,711,009, Cl. 29-157.00R.
Cuisia, Dionisio G.; and Hwa, Chih M., 4,680,125, Cl. 210-697.000.
Edson, Steven S., 4,688,591, Cl. 137-15.000.
Edwards, Grant C.; Gilson, Jean-Pierre; and McDaniel, Carl V., 4,681,864, Cl. 502-63.000.
Giovannoni, Richard T.; Kung, James K. J.; and Chou, Wai M., 4,699,857, Cl. 429-204.000.
Greaves, Brian, 4,692,317, Cl. 422-15.000.
Guthrie, James L.; Roberts, Helen F.; and Lundsager, Christian B., 4,661,675, Cl. 219-91.210.
Hannemann, Gerd K., 4,677,179, Cl. 528-45.000.
Hansson, Per E. A.; and Jachimowicz, Felek, 4,689,374, Cl. 525-435.000.
Hegedus, Louis; Vayenas, Costas G.; and Michaels, James N., 4,643,806, Cl. 204-59.00R.
Hein, Paul R.; Miller, Henry C.; and Brewster, W. Darlene, 4,666,821, Cl. 430-311.000.
Holleran, Peter M., 4,667,855, Cl. 222-152.000.
Hwa, Chih M.; and Mitchell, Wayne A., 4,649,025, Cl. 422-15.000.
Ketley, Celia H., 4,714,726, Cl. 524-11.000.
Kim, Gwan; and Ernest, Michael V., 4,654,319, Cl. 502-304.000.
Kreh, Robert P.; and Spotnitz, Robert M., 4,639,298, Cl. 204-59.00R.
Kreh, Robert P.; and Spotnitz, Robert M., 4,647,349, Cl. 204-59.00R.
Kreh, Robert P.; and Spotnitz, Robert M., 4,670,108, Cl. 204-59.00R.
Kreh, Robert P., 4,701,245, Cl. 204-78.000.
Lin, Shiow C., 4,701,513, Cl. 528-89.000.
Lin, Shiow C., 4,705,824, Cl. 524-612.000.
Lundquist, Joseph T.; Lundsager, Christian B.; Palmer, Nigel I.; and Troffkin, Howard J., 4,650,730, Cl. 429-62.000.
Lundsager, Christian B., 4,670,341, Cl. 428-372.000.
Ou, Chia-Chih; and Yang, Julie C., 4,655,842, Cl. 106-288.00B.
Rendulic, Francis J.; Robinson, Randolph H.; and Maccini, John A., 4,702,994, Cl. 430-306.000.
Serafin, Frank G., 4,643,362, Cl. 241-16.000.
Serafin, Frank G., 4,711,401, Cl. 241-16.000.
Shu, Larry S., 4,699,822, Cl. 428-198.000.
Siadat, Bahram; and Morgan, Charles R., 4,710,539, Cl. 525-59.000.
Spencer, Nicholas D., 4,705,771, Cl. 502-255.000.
Spotnitz, Robert M.; and Kreh, Robert P., 4,692,222, Cl. 204-78.000.
Terluzzi, Frank M., Jr.; and Langen, Bernardus G., 4,672,793, Cl. 53-434.000.
Villavicencio, Eduardo J., 4,699,691, Cl. 162-19.000.
Vu, Cung, 4,710,560, Cl. 528-67.000.
Welch, Phillip W.; and Roberts, Lawrence R., 4,635,858, Cl. 241-16.000.
Welsh, William A.; Parent, Yves O.; and Mertz, Stanley A., 4,684,530, Cl. 426-330.400.
Werson, Michael J., 4,668,983, Cl. 358-106.000.
Young, Kenneth E.; Dudley, Hubert T.; and Frohlich, Robert T., 4,641,471, Cl. 52-361.000.
Young, Kenneth E.; Dudley, Hubert T.; and Frohlich, Robert T., 4,641,472, Cl. 52-361.000.
W. R. Grace & Co., Cryovac Div.: *See*—
Ferguson, Daniel J.; Schirmer, Henry G.; and Mueller, Walter B., 4,640,856, Cl. 428-36.000.
Havens, Marvin R., 4,686,148, Cl. 428-520.000.
Havens, Marvin R., 4,698,111, Cl. 156-244.110.
Howe, Milton A., Jr., 4,638,913, Cl. 206-632.000.
Mueller, Walter B., 4,643,926, Cl. 428-35.000.
Mueller, Walter B.; and Schirmer, Henry G., 4,684,573, Cl. 428-349.000.
Mugnai, Giorgio, 4,671,047, Cl. 53-550.000.
Odabashian, Robert A.; and Wofford, Benjamin G., 4,635,295, Cl. 383-127.000.
O'Neill, Ronan R., 4,693,372, Cl. 206-554.000.
Oreglia, Aurelio; Botto, Paolo; and Freschi, Claudio, 4,680,340, Cl. 525-72.000.
Owen, Dave L.; and Domnitz, David K., 4,704,843, Cl. 53-450.000.
Schirmer, Henry G., 4,704,101, Cl. 493-195.000.
Schoenberg, Julian H., 4,643,943, Cl. 428-339.000.
Taylor, Monroe F., 4,709,532, Cl. 53-451.000.
Vietto, Paolo; and Martini, Francesco, 4,687,711, Cl. 428-515.000.
W.S.R. Pty. Ltd.: *See*—
Snook, Harvey; and Hughes, Terence C., 4,657,666, Cl. 209-8.000.
W. S. Tyler, Incorporated: *See*—
Elmquist, Steven A.; and Boesger, Leonard E., 4,696,353, Cl. 175-206.000.
W. Schlafhorst & Co.: *See*—
Brock, Josef; and Surkamp, Paul, 4,643,231, Cl. 139-66.00R.
Brock, Josef; and Surkamp, Paul, 4,646,788, Cl. 139-76.000.
Buhren, Heinz; and Schumacher, Winfried, 4,685,630, Cl. 242-35.50A.
Derichs, Josef, 4,637,207, Cl. 57-282.000.
Derichs, Josef, 4,660,373, Cl. 57-404.000.
Derichs, Josef, 4,682,636, Cl. 139-435.000.
Engelhardt, Dietmar; and Grecksch, Hans, 4,693,430, Cl. 242-18.00R.
Grecksch, Hans; Schwalm, Hans-Werner; and Thomalla, Johannes, 4,641,740, Cl. 198-487.100.
Grecksch, Hans; and Tholen, Leo, 4,664,326, Cl. 242-35.50A.
Hermanns, Ferdinand-Josef, 4,696,435, Cl. 242-18.100.
Kamp, Heinz; and Becker, Rolf, 4,635,866, Cl. 242-36.000.
Kamp, Heinz; and Becker, Rolf, 4,674,695, Cl. 242-43.00A.
Kupper, Wilhelm; and Hensen, Helmuth, 4,651,865, Cl. 198-468.200.
Kupper, Wilhelm, 4,660,368, Cl. 57-281.000.
Kupper, Wilhelm, 4,681,230, Cl. 209-615.000.
Kupper, Wilhelm; and Hensen, Helmuth, 4,697,692, Cl. 198-464.300.
Langen, Manfred, 4,690,342, Cl. 242-35.50A.
Langen, Manfred, 4,694,539, Cl. 19-159.00A.
Lassmann, Manfred, 4,712,367, Cl. 57-263.000.

Lembeck, Theo, 4,640,090, Cl. 57-401.000.
Oellers, Dieter, 4,693,066, Cl. 57-22.000.
Peters, Erwin, 4,683,712, Cl. 57-81.000.
Raasch, Hans; and Wassenhoven, Heinz-Georg, 4,641,494, Cl. 57-401.000.
Raasch, Hans, 4,640,365, Cl. 57-263.000.
Raasch, Hans, 4,662,170, Cl. 57-416.000.
Raasch, Hans; and Wassenhoven, Heinz-Georg, 4,663,929, Cl. 57-416.000.
Raasch, Hans, 4,672,802, Cl. 57-263.000.
Raasch, Hans, 4,693,070, Cl. 57-263.000.
Raasch, Hans, 4,695,002, Cl. 242-47.010.
Raasch, Hans, 4,697,310, Cl. 19-159.00A.
Raasch, Hans, 4,702,427, Cl. 242-35.50A.
Raasch, Hans, 4,711,082, Cl. 57-263.000.
Rohner, Joachim, 4,653,258, Cl. 57-22.000.
Wassenhoven, Heinz-Georg, 4,660,374, Cl. 57-407.000.
Wassenhoven, Heinz-Georg, 4,689,946, Cl. 57-301.000.
Wey, Edmund, 4,638,956, Cl. 242-35.50A.
Wey, Edmund; Kathke, Gregor; and Langen, Manfred, 4,657,194, Cl. 242-35.50A.

W. Strikfeldt & Koch GmbH. *See*—
Schmidt, Gunther; and Koch, Joseph W. M., 4,687,476, Cl. 432-57.000.

W. T. Associates. *See*—
Mintz, Michael, 4,643,189, Cl. 128-314.000.

W. Vinten Limited. *See*—
Hawkins, Nicholas J.; and Saltarelli, Robert, 4,716,518, Cl. 364-184.000.
Lindsay, Richard A., 4,657,220, Cl. 248-647.000.
Russell, Lionel V. F., 4,695,596, Cl. 403-321.000.
Southgate, Malcolm D., 4,657,216, Cl. 248-187.000.
Stapleton, Harold R., 4,650,142, Cl. 248-184.000.

W. W. Henry Company, The. *See*—
Marcina, George E.; Lawlor, Francis E.; Beemer, Paul H.; and Balling, Lawreace A., 4,652,395, Cl. 252-301.350.

Wagner-Biro Aktiengesellschaft. *See*—
Beckmann, Georg; Hillinger, Bruno; and Wolf, Bodo, 4,693,729, Cl. 48-203.000.
Hillinger, Bruno; and Beckmann, Georg, 4,684,374, Cl. 48-197.00R.

Waali, Edward E., to Research Corporation. Aluminum chlorhydrate as a prophylatic treatment for poison oak, poison ivy and poison sumac dermatitis. 4,663,151, 5-5-87, Cl. 424-45.000.

Waarvik, Thomas L., to Eli Lilly and Company. Culture monitoring system. 4,683,207, 7-28-87, Cl. 435-311.000.

Waatanabe, Junji, to Kabushiki Kaisha Toshiba. Developing apparatus. 4,710,016, 12-1-87, Cl. 355-4.000.

Wabash National Corporation. *See*—
Ehrlich, Donald J., 4,703,948, Cl. 280-782.000.

Wabco Westinghouse. *See*—
Fauck, Gerhard; Pohl, Wolfgang; and Ulrich, Helmut, 4,666,217, Cl. 303-22.00R.

WABCO Westinghouse Compagnia Freni S.p.A. *See*—
Barberis, Dario, 4,649,805, Cl. 92-129.000.
Barberis, Dario, 4,676,346, Cl. 188-202.000.

WABCO Westinghouse Equipements Ferroviaires S.A. *See*—
Dalibout, Georges; Grenier, Michel; and Cieplinski, Daniel, 4,705,623, Cl. 60-577.000.

WABCO Westinghouse Fahrzeugbremsen GmbH. *See*—
Abel, Joachim; Neuhaus, Detlev; Hesse, Karl-Heinz; Muller, Michael; and Lichtenberg, Wolfgang, 4,665,362, Cl. 374-208.000.
Bortfeld, Harald; Danne, Lutz; Lehrmann, Joachim; and Klatt, Alfred, 4,660,430, Cl. 74-335.000.
Fauck, Gerhard; Kiel, Bernd; and Ulrich, Helmut, 4,640,556, Cl. 303-22.00R.
Fauck, Gerhard; Deike, Karl-Heinz; and Kiel, Bernd, 4,653,811, Cl. 303-28.000.
Feldman, Joachim; and Schult, Manfred, 4,708,225, Cl. 188-1.110.
Feldmann, Joachim, 4,677,857, Cl. 73-855.000.
Hofler, Siegfried; Rode, Konrad; and Schmidt, Reinhard, 4,689,990, Cl. 73-118.100.
Kaltenthaler, Wolfgang; Kramer, Manfred; and Gelse, Heinz-Dieter, 4,685,653, Cl. 251-63.600.
Klatt, Alfred; and Reinecke, Erich, 4,648,291, Cl. 74-866.000.
Klatt, Alfred, 4,651,142, Cl. 340-679.000.
Klatt, Alfred, 4,690,008, Cl. 74-336.00R.
Klatt, Alfred, 4,713,764, Cl. 364-424.100.
Lindemann, Klaus, 4,712,634, Cl. 180-197.000.
Reinecke, Erich; and Ruhnau, Gerhard, 4,661,910, Cl. 364-426.000.
Reinecke, Erich, 4,674,326, Cl. 73-129.000.
Reinecke, Erich, 4,685,745, Cl. 303-100.000.
Rode, Konrad, 4,655,255, Cl. 137-627.500.
Rothen, Johann; and Schult, Manfred, 4,671,578, Cl. 303-15.000.
Ruhnau, Gerhard, 4,703,388, Cl. 361-91.000.
Staisch, Diether, 4,665,796, Cl. 91-178.000.
Ulbrich, Gerald; and Neuhaus, Detlev, 4,649,341, Cl. 324-207.000.
Ulrich, Helmut; Bartscher, Peter; and Shilton, Brian, 4,679,865, Cl. 303-52.000.

WABCO Westinghouse (Railway Brake) (Pty.) Ltd.: *See*—
Fourie, Eugene, 4,671,576, Cl. 303-3.000.

WABCO Westinghouse Steuerungstechnik GmbH & Co.: *See*—
Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,656,457, Cl. 338-176.000.
Brausfeld, Walter; Gottling, Helmut; Moller, Rudolf; Muller, Peter; and Scharnowski, Gerhard, 4,680,436, Cl. 200-82.00E.
Kedzierski, Heinrich, 4,633,758, Cl. 91-44.000.
Oberlander, Andreas, 4,649,804, Cl. 92-63.000.

Wabeke, Hilda, heir. *See*—
Wabeke, Samuel, deceased; and Wabeke, Hilda, heir, 4,707,980, Cl. 60-206.000.

Wabeke, Samuel, deceased; and by Wabeke, Hilda, heir. Power production process that reduces acid rain. 4,707,980, 11-24-87, Cl. 60-206.000.

Wacha, Gerhard, to BBC Brown, Boveri & Company, Limited. Monitoring system for the trigger circuit of an electrical power switch. 4,670,742, 6-2-87, Cl. 340-653.000.

Wachenschwanz, David E.; and Jeffers, Frederick J., to Eastman Kodak Company. Optimum control of overwrite by record gap length selection. 4,642,718, 2-10-87, Cl. 360-119.000.

Wachholz, Winfried; and Weicht, Ulrich, to Hochtemperatur-Reaktorbau GmbH. Nuclear reactor plant with a small high temperature reactor operating with spherical fuel elements. 4,689,194, 8-25-87, Cl. 376-299.000.

Wachholz, Winfried; and Weicht, Ulrich, to Hochtemperatur-Reaktorbau GmbH. Process for installation for the controlled discharge of activity from a reactor containment structure of a gas-cooled nuclear power plant. 4,698,202, 10-6-87, Cl. 376-300.000.

Wachholz, Winfried; and Weicht, Ulricht, to Hochtemperatur-Reaktorbau GmbH. High temperature pebble bed reactor and process for shut-down. 4,713,211, 12-15-87, Cl. 376-238.000.

Wachholz, Winfried. *See*—
Nicolai, Rainer; Wachholz, Winfried; and Weicht, Ulrich, 4,645,641, Cl. 376-283.000.
Schoening, Josef; Wachholz, Winfried; and Weicht, Ulrich, 4,701,298, Cl. 376-273.000.

Wachi, Hiroshi; Kaya, Seitoku; and Kojima, Gen, to Asahi Glass Company Ltd. Curable composition of elastomeric vinylidene fluoride copolymer. 4,645,799, 2-24-87, Cl. 525-199.000.

Wachi, Kazuyuki. *See*—
Terada, Atsusuke; and Wachi, Kazuyuki, 4,673,761, Cl. 562-459.000.

Wachi, Masatada; and Shibukawa, Takeo, to Nippon Gakki Seizo Kabushiki Kaisha. Truncate prioritization system for multi channel electronic music generator. 4,703,680, 11-3-87, Cl. 84-1.260.

Wachi, Shigeaki, to Sony Corporation. Servo system. 4,647,828, 3-3-87, Cl. 318-603.000.

Wachi, Shigeaki, to Sony Corporation. Apparatus for driving a recording medium at a constant speed relative to a pickup device. 4,652,799, 3-24-87, Cl. 318-314.000.

Wachi, Yuji. *See*—
Yanagawa, Ichiro; and Wachi, Yuji, 4,713,094, Cl. 55-163.000.

Wachinski, Clarence A.; and Bigger, Thomas J., to William H. Rorer, Inc. Articulated joint in aerosol medicament dispenser. 4,637,528, 1-20-87, Cl. 222-182.000.

Wachowski, Raymond J.; and Mulso, Francis A., to Chrysler Motors Corporation. Spring mounted molding for a vehicle. 4,685,712, 8-11-87, Cl. 293-128.000.

Wachs, Israel E.; and Yang, Darchun B., to Exxon Research and Engineering Company. Catalysts comprising ruthenium on titania surface modified with group Va oxide of vanadium, niobium or tantalum. 4,711,871, 12-8-87, Cl. 502-325.000.

Wachsmuth, Robert H.; and Brusch, Donald W., to Environmental Tectonics Corporation. Spatial disorientation trainer-flight simulator. 4,710,128, 12-1-87, Cl. 434-46.000.

Wachtel, Helmut. *See*—
Aufdembrinke, Bernd; Dorow, Rainer; Horowski, Reinhard; Suchy, Irmgard; Schroeder, Gertrud; Wachtel, Helmut; Kehr, Wolfgang; and Stock, Gunter, 4,711,891, Cl. 514-313.000.

Wachtel, James A.: *See*—
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Vavadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,642,968, Cl. 53-425.000.
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Varadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,667,454, Cl. 53-425.000.

Wachter, Hanspeter. *See*—
Reichmuth, Arthur; and Wachter, Hanspeter, 4,676,329, Cl. 177-165.000.

Wachter, Johann, to Famag Fahrzeug- und Maschinenhandelsgesellschaft m.b.H. Nfg. KG. Holding member for working elements of roller brushes. 4,707,875, 11-24-87, Cl. 15-179.000.

Wachter, Michael P.: *See*—
Ferro, Michael P.; and Wachter, Michael P., 4,665,092, Cl. 514-459.000.
Murray, William V.; and Wachter, Michael P., 4,681,894, Cl. 514-507.000.

Wachter, William J., to U.S. Tool & Die Co., Inc. Method and apparatus for increasing load-bearing capacity of water pools for storing spent nuclear fuel rods. 4,666,660, 5-19-87, Cl. 376-272.000.

Wachter, William J., to U.S. Tool & Die Co., Inc. Method and apparatus for compacting spent nuclear reactor fuel rods. 4,704,247, 11-3-87, Cl. 376-261.000.

Wachter, William J., to U.S. Tool & Die Co., Inc. Method and apparatus for compacting spent nuclear reactor fuel rods. 4,714,583, 12-22-87, Cl. 376-261.000.

Wachtler. *See*—
Krause, Joachim; Wachtler; and Scheuble, Bernhard, 4,715,984, Cl. 252-299.610.

Wachtler, Andreas: *See—*
Krause, Joachim; Wachtler, Andreas; Hittich, Reinhard; Weber, Georg; and Scheuble, Bernhard, 4,704,227, Cl. 252-299.610.
Pohl, Ludwig; Scheuble, Bernhard; Wachtler, Andreas; Hittich, Reinhard; and Fuss, Peter, 4,707,295, Cl. 252-299.620.
Wacker-Chemie Gesellschaft fur Elektronik-Grundstoffe mbH: *See—*
Lossl, Gunter; Zauhar, Helmut; and Stock, Horst, 4,633,847, Cl. 125-13.00R.
Wacker-Chemie GmbH: *See—*
Burkhardt, Jurgen; and Rauchberger, Werner, 4,701,490, Cl. 524-425.000.
Eck, Herbert; Menzel, Hartmut; Jirs, Reinhard; and Prasse, Alfred, 4,650,835, Cl. 525-440.000.
Eck, Herbert; and Roth, Michael, 4,704,416, Cl. 524-17.000.
Frey, Volker; Pachaly, Bernd; and Zeller, Norbert, 4,667,046, Cl. 556-430.000.
Gerhardinger, Dieter; Wegehaupt, Karl-Heinrich; and Pfeffer, Hans-Rudolf, 4,649,066, Cl. 427-387.000.
Huhn, Karl; and Kaufmann, Rudolf, 4,666,745, Cl. 427-393.400.
Jira, Reinhard; and Ottlinger, Ralph, 4,710,558, Cl. 528-14.000.
Kleine, Willi; Frey, Werner; and Daweritz, Albrecht, 4,661,569, Cl. 526-62.000.
Kratel, Gunter; Stohr, Gunter; and Schreiner, Franz, 4,636,416, Cl. 428-69.000.
Mayer, Hans; Deubzer, Bernward; Iretzberger, Petra; Muhlhofer, Rudolf; and Wilhelm, Hermann, 4,661,551, Cl. 524-379.000.
Mayer, Hans; Muhlhofer, Rudolf; Deubzer, Bernward; and Mayerhofer, Walter, 4,692,474, Cl. 521-88.000.
Muller, Johann; Trieschmann, Christa; Doskocil, Walter; and Preiner, Gerhard, 4,675,425, Cl. 556-44-.000.
Muller, Johann; Trieschmann, Christa; Doskocil, Walter; and Preiner, Gerhard, 4,680,365, Cl. 528-15.000.
von Au, Gunther; Braunsperger, Karl; Huhn, Karl; and Kovar, Ingomar, 4,652,662, Cl. 549-215.000.
Wegehaupt, Karl-Heinrich; and Pfeffer, Hans-Rudolf, 4,637,958, Cl. 428-416.000.
Wacker-Chemitronic Gesellschaft fur Elektronik-Grundstoffe mbH: *See—*
Lampert, Ingolf; and Jacob, Herbert, 4,692,223, Cl. 204-34.500.
Wacker Corporation: *See—*
Pilachowski, Martin, 4,643,611, Cl. 404-133.000.
Wacker, Erich; Landau, Ulrich; Sander, Wilfried; and Schellmann, Klaus, to Kolbenschmidt Aktiengesellschaft. Light alloy piston for internal combustion engines. 4,683,808, 8-4-87, Cl. 92-208.000.
Wacker, Erich: *See—*
Sander, Wilfried; Essig, Gunder; and Wacker, Erich, 4,691,622, Cl. 92-233.000.
Wacker, Hans, to Renz, Wacker & Co. Maschinenfabrik. Method and apparatus for producing bimetallic contacts, especially bimetallic welded contacts. 4,716,268, 12-29-87, Cl. 219-118.000.
Wacker, Josef: *See—*
Goldmann, Horst; Einsle, Guenter; Brugger, Rudolf; and Wacker, Josef, 4,713,866, Cl. 29-33.00K.
Wacker, Oskar: *See—*
Baschang, Gerhard; Hartmann, Albert; and Wacker, Oskar, 4,640,911, Cl. 514-42.000.
Baschang, Gerhard; Hartmann, Albert; and Wacker, Oskar, 4,666,886, Cl. 514-17.000.
Baschang, Gerhard; Hartmann, Albert; and Wacker, Oskar, 4,711,879, Cl. 514-42.000.
Wacker, Paul C.: *See—*
Kidder, Kenneth B.; Smith, Gary A.; and Wacker, Paul C., 4,656,835, Cl. 62-175.000.
Wacker Silicones Corporation: *See—*
Essinger, James F., Jr., 4,710,559, Cl. 528-15.000.
Wacker, Thomas P.: *See—*
Keane, John J.; and Wacker, Thomas P., 4,670,351, Cl. 428-549.000.
Wacker Werke GmbH & Co. KG: *See—*
Greppmair, Martin, 4,673,043, Cl. 173-162.00H.
Paukert, Julius, 4,675,485, Cl. 200-157.000.
Wackerle, Peter: *See—*
Spiller, Hans-Dieter; and Wackerle, Peter, 4,699,417, Cl. 295-7.000.
Wackerle, Peter M.: *See—*
Prochaska, Wolfgang; Schulz, Ralf T.; and Wackerle, Peter M., 4,671,842, Cl. 156-425.000.
Wackym, Phillip A. Interactive training system. 4,652,240, 3-24-87, Cl. 434-118.000.
Waco Jonsereds AB: *See—*
Andersson, Bengt A., 4,677,733, Cl. 29-563.000.
Waco Pure Chemical Industries, Ltd.: *See—*
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,683,288, Cl. 528-361.000.
Waco Trading Corporation: *See—*
Kairis, Alexandre; and Colsen, Ronnie H., 4,694,840, Cl. 128-735.000.
Wacom Co., Ltd.: *See—*
Kusuhara, Masaki, 4,641,227, Cl. 362-231.000.
Miyamori, Nobuyuki; Tomofuji, Yoshiaki; Izawa, Kiyosato; and Tsuchida, Youichi, 4,711,977, Cl. 178-18.000.
Murakami, Azuma; and Taguchi, Yoshinori, 4,634,973, Cl. 324-207.000.
Murakami, Azuma; and Taguchi, Yoshinori, 4,658,373, Cl. 364-559.000.
Murakami, Azuma; Taguchi, Yoshinori; and Yamanami, Tsuguya, 4,697,244, Cl. 364-520.000.
Murakami, Azuma; Katsurahira, Yuji; and Taguchi, Yoshinori, 4,709,209, Cl. 324-207.000.
Taguchi, Yoshinori; and Yamanami, Tsuguya, 4,678,870, Cl. 178-19.000.
Taguchi, Yoshinori; and Yamanami, Tsuguya, 4,704,501, Cl. 178-19.000.
Wacyk, Ihor T., to RCA Corporation. Priority encoded spare element decoder. 4,639,897, 1-27-87, Cl. 365-200.000.
Wada, Atsuki; Takahashi, Mikio; and Suhara, Eiji, to Kurashiki Boseki Kabushiki Kaisha. Apparatus for supplying filtered liquid. 4,671,40? 6-16-87, Cl. 210-98.000.
Wada, Fumio: *See—*
Asami, Kazutomo; Sano, Fumiaki; Ishijima, Koji; Wada, Fumio; and Hirahara, Takuho, 4,645,429, Cl. 417-312.000.
Asami, Kazutomo; Sano, Fumiaki; Wada, Fumio; and Ishijima, Koji, 4,711,617, Cl. 417-295.000.
Wada, Hajime: *See—*
Nakayama, Noritaka; Kawakatsu, Satoshi; Katoh, Katsunori; Iijima, Toshijumi; Kumashiro, Kenji; Kashiwagi, Hiroshi; Hata, Koichi; Uchida, Takashi; Wada, Hajime; Ishii, Fumio; Matsunaga, Satoshi; Matsuhara, Yasuko; and Shinozaki, Kaoru, 4,695,533, Cl. 430-558.000.
Wada, Hidekazu: *See—*
Nishikawa, Toshio; Ishikawa, Youhei; and Wada, Hidekazu, 4,639,699, Cl. 333-202.000.
Wada, Hidemi: *See—*
Iguchi, Katsuhiko; Nitta, Satoru; Wada, Hidemi; and Sato, Takayoshi, 4,704,083, Cl. 425-466.000.
Wada, Hideo; and Goto, Humio, to Hitachi, Ltd. Computer system. 4,639,862, 1-27-87, Cl. 364-200.000.
Wada, Hifumi, to Mitsubishi Denki Kabushiki Kaisha. Malfunction detector for detecting open-circuit condition at DC generator output terminal. 4,634,955, 1-6-87, Cl. 322-99.000.
Wada, Hifumi: *See—*
Komurasaki, Keiichi; Wada, Hifumi; and Nishimura, Shinji, 4,689,545, Cl. 322-14.000.
Nishimura, Shinji; Wada, Hifumi; and Komurasaki, Keiichi, 4,651,081, Cl. 320-64.000.
Nishimura, Shinji; Wada, Hifumi; and Komurasaki, Keiichi, 4,686,446, Cl. 322-33.000.
Wada, Hiroaki: *See—*
Kurachi, Yasuo; Arai, Katsuhiko; Wada, Hiroaki; Watabe, Yoji; and Irako, Sanae, 4,702,900, Cl. 423-345.000.
Wada, Hiromu: *See—*
Okazaki, Hiroshi; Soeda, Mahito; Wada, Hiromu; and Onoh, Kiyotaka, 4,656,279, Cl. 546-150.000.
Wada, Hironao: *See—*
Komaki, Akio; Hayakawa, Takumi; Yoneda, Tadashi; Miura, Asahiko; Wada, Hironao; Matsubayashi, Satoshi; and Takemasa, Arihiko, 4,652,505, Cl. 429-131.000.
Wada, Hiroshi; and Kosaka, Yuzo, to Eiken Kagaku Kabushiki Kaisha. Composition for assaying hydrogen peroxide. 4,716,110, 12-29-87, Cl. 435-25.000.
Wada, Hiroshi: *See—*
Nakai, Hideo; Wada, Hiroshi; Nagao, Taku; and Yabuta, Hideo, 4,689,327, Cl. 514-252.000.
Wada, Hirotsugu; Sano, Shunichi; Nakasuji, Mamoru; and Yoshikawa, Ryoichi, to Tokyo Shibaura Denki Kabushiki Kaisha. Charged particle beam exposure apparatus. 4,647,782, 3-3-87, Cl. 250-492.200.
Wada, Hirotsugu: *See—*
Gotou, Mineo; and Wada, Hirotsugu, 4,636,968, Cl. 364-559.000.
Wada, Hiroyuki: *See—*
Murata, Yasuzo; Yokoyama, Takeo; Wada, Hiroyuki; and Sakata, Masaaki, 4,707,593, Cl. 235-487.000.
Wada, Hisayo: *See—*
Nishihata, Toshiaki; Kamada, Akira; and Wada, Hisayo, 4,699,776, Cl. 424-16.000.
Wada, Iwao, to Nakagawa Seisakusho Mfg. Co., Ltd.; and Toyo Special Metallic Industry Co., Ltd. Metallic card clothing. 4,655,152, 3-31-87, Cl. 19-114.000.
Wada, Katsuo: *See—*
Iizuka, Nobuyuki; Hisano, Katsukuni; Wada, Katsuo; Kanbino, Masashi; Hirose, Fumiyuki; Ishibashi, Yoji; Sato, Isao; Arai, Osamu; Inose, Hiroshi; and Sakuda, Osamu, 4,677,822, Cl. 60-39.230.
Iizuka, Nobuyuki; Hisano, Katsukuni; Oshima, Ryoichiro; Wada, Katsuo; Hirose, Fumiyuki; Kuroda, Michio; Uchiyama, Yoshihiro; Ishibashi, Yoji; Sato, Isao; and Inose, Hiroshi, 4,683,715, Cl. 60-39.060.
Wada, Keiichiro: *See—*
Hirai, Hidefumi; Komiyama, Makoto; Kuruma, Kazunori; and Wada, Keiichiro, 4,675,309, Cl. 502-402.000.
Hirai, Hidefumi; Komiyama, Makoto; Hara, Susumu; and Wada, Keiichiro, 4,696,682, Cl. 55-68.000.
Wada, Keisuke: *See—*
Maetani, Kazuo; and Wada, Keisuke, 4,675,093, Cl. 204-224.00R.
Wada, Kenichi: *See—*
Hashimoto, Masahiro; Watanabe, Tsuyoshi; and Wada, Kenichi, 4,639,886, Cl. 364-736.000.
Morimoto, Takuo; Nishiuchi, Kihachiro; and Wada, Kenichi, 4,647,404, Cl. 252-516.000.
Morimoto, Takuo; Nishiuchi, Kihachiro; Wada, Kenichi; Suzue, Masayoshi; and Hareyama, Yukiya, 4,655,967, Cl. 252-520.000.
Yamaoka, Akira; Wada, Kenichi; and Kuriyama, Kazunori, 4,692,891, Cl. 364-763.000.

Wada, Kiyokazu: *See*—
Takano, Hiroshi; Takagi, Shinichi; and Wada, Kiyokazu, 4,642,080, Cl. 474-244.000.
Takano, Hiroshi; Takagi, Shinichi; Wada, Kiyokazu; Konishi, Sadaichi; and Kanaoka, Tomizo, 4,708,699, Cl. 474-144.000.

Wada, Koji: *See*—
Satoyoshi, Yasuhiko; and Wada, Koji, 4,685,638, Cl. 242-199.000.

Wada, Kouichi: *See*—
Matsumoto, Mutsumi; and Wada, Kouichi, 4,652,673, Cl. 562-535.000.

Wada, Masahiro; and Yamaguchi, Hirohisa, to Kokusai Denshin Denwa Co., Ltd. Movement estimation system for video signals using a recursive gradient method. 4,695,882, 9-22-87, Cl. 358-136.000.

Wada, Masahiro: *See*—
Yamaguchi, Hirohisa; Wada, Masahiro; and Yamamoto, Hideo, 4,672,442, Cl. 358-140.000.

Wada, Masami: *See*—
Yamashita, Fumitoshi; Wada, Masami; and Kitayama, Shuichi, 4,689,163, Cl. 252-62.540.

Wada, Masaru; Shimizu, Hirokazu; Shibutani, Takao; Itoh, Kunio; Hamada, Ken; and Teramoto, Iwao, to Matsushita Electric Industrial Co., Ltd. Method of manufacturing semiconductor device. 4,675,074, 6-23-87, Cl. 156-647.000.

Wada, Masaru; and Kato, Yoji, to Sony Corporation. Method of diffusion of impurities. 4,698,122, 10-6-87, Cl. 156-625.000.

Wada, Masaru: *See*—
Hamada, Ken; Wada, Masaru; and Itoh, Kunio, 4,716,571, Cl. 372-48.000.
Kato, Yoji; Watanabe, Seiichi; and Wada, Masaru, 4,695,862, Cl. 357-36.000.
Nagata, Teruyuki; Kajimoto, Nobuyuki; Wada, Masaru; Nakayama, Hitoshi; and Yamada, Tadao, 4,668,793, Cl. 548-317.000.
Shimizu, Hirokazu; Itoh, Kunio; Sugino, Takashi; Wada, Masaru; Teramoto, Iwao; and Fujimoto, Kazuo, 4,651,222, Cl. 372-45.000.

Wada, Masashi, to Tokyo Shibaura Denki Kabushiki Kaisha. Integrated circuit device for writing and reading information. 4,692,785, 9-8-87, Cl. 357-52.000.

Wada, Masatoshi; and Sakai, Tetsuo, to Okuno Chemical Industries Co. Ltd.; and Nippon Hoso Kyokai. High contrast display device. 4,692,662, 9-8-87, Cl. 313-493.000.

Wada, Minoru; Hulaka, Chikara; and Noma, Takeshi, to Sumitomo Metal Industries, Ltd. Process for the production of iron oxide fine powder. 4,697,744, 10-6-87, Cl. 241-20.000.

Wada, Minoru: *See*—
Kinoshita, Tomoaki; Takano, Kunio; Nukushina, Masanori; Wada, Minoru; and Tokunaga, Hiroshi, 4,692,871, Cl. 364-470.000.

Wada, Mitsuo; and Nishihara, Kazue, to Agency of Industrial Science and Technology. Flexibly foldable arm. 4,685,349, 8-11-87, Cl. 74-479.000.

Wada, Moriyasu: *See*—
Onishi, Yasunobu; Hayase, Shuzi; Suzuki, Shuichi; and Wada, Moriyasu, 4,666,951, Cl. 522-8.000.

Wada Pure Chemical Ind., Ltd.: *See*—
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,677,191, Cl. 528-361.000.

Wada, Ryokichi: *See*—
Kiyama, Yoshito; Wada, Ryokichi; and Sakamoto, Kingo, 4,675,824, Cl. 364-464.000.

Wada, Shigekazu; and Okuda, Kenji, to Pioneer Electronic Corporation. Head rotation apparatus for video tape recorder. 4,672,489, 6-9-87, Cl. 360-104.000.

Wada, Shigetaka: *See*—
Homma, Takahiko; and Wada, Shigetaka, 4,692,099, Cl. 416-229.00A.

Wada, Shinji; and Kobayashi, Katsuhiko, to Tokyo Kogaku Kikai Kabushiki Kaisha. Eye examining apparatus. 4,676,612, 6-30-87, Cl. 351-211.000.

Wada, Shintaro; Takahashi, Hisanori; and Nomura, Yoichi, to Nitto Electric Industrial Co., Ltd. Biomedical electrode. 4,679,563, 7-14-87, Cl. 128-640.000.

Wada, Shunichi; Shimomura, Setsuhiro; Kumagai, Naotake; Takizawa, Shozo; Maruyama, Mitsunori; Tatemoto, Minoru; Takada, Hiroyuki; and Harara, Mitsuhiko, to Mitsubishi Denki Kabushiki Kaisha; and Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Suspension device for automobile. 4,648,622, 3-10-87, Cl. 280-707.000.

Wada, Susuma: *See*—
Tsugawa, Kazuo; and Wada, Susuma, 4,705,117, Cl. 523-152.000.

Wada, Takaaki: *See*—
Iesaka, Takashi; Wada, Takaaki; Ohta, Ikumi; and Izumi, Masayuki, 4,638,618, Cl. 52-509.000.

Wada, Takahiro; and Hiroshi, Yonenoo, to Matsushita Electric Industrial Co., Ltd. Reduced pressure heat storage element and electric heater using the same. 4,672,178, 6-9-87, Cl. 219-378.000.

Wada, Takeshi: *See*—
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Wada, Tetsuyoshi: *See*—
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
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Ikematsu, Morio; Wada, Tohru; Nakanishi, Tohru; and Ishigami, Nobuo, 4,658,978, Cl. 251-315.000.

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Wada, Toshiaki; and Katsuyama, Yoshiaki, to Sumitomo Special Metals Co., Ltd. Substrate members for recording disks and process for producing same. 4,659,606, 4-21-87, Cl. 428-141.000.

Wada, Toshiaki; Katsuyama, Yoshiaki; and Nakaoka, Junichi, to Sumitomo Special Metals Co., Ltd. Recording disk substrate members and process for producing same. 4,690,846, 9-1-87, Cl. 428-64.000.

Wada, Toshihiko: *See*—
Ueno, Saburo; Yoshikumi, Chikao; Omura, Yoshio; Fujii, Takayoshi; Wada, Toshihiko; Takahashi, Eiichi; and Hirose, Fumio, 4,699,787, Cl. 424-95.000.

Wada, Toshio; and Hirano, Tatsuo, to Junkosha Co., Ltd. Electrical transmission line. 4,701,576, 10-20-87, Cl. 174-117.00F.

Wada, Tsuguyasu; Eldis, George T.; and Albright, Darryl L., to Arnax Inc. Composite materials having a matrix of magnesium or magnesium alloy reinforced with discontinuous silicon carbide particles. 4,657,065, 4-14-87, Cl. 164-461.000.

Wada, Tsuguyasu; Adenis, Daniel J.; and Cox, Thomas B., to AMAX Inc. Composite material having matrix of aluminum or aluminum alloy with dispersed fibrous or particulate reinforcement. 4,662,429, 5-5-87, Cl. 164-461.000.

Wada, Yasuo; Tamura, Masao; Natsuaki, Nobuyoshi; and Ohyu, Kiyonori, to Hitachi, Ltd. Ion implantation process. 4,655,875, 4-7-87, Cl. 156-643.000.

Wada, Yasuo: *See*—
Okuhira, Hidekazu; and Wada, Yasuo, 4,693,779, Cl. 156-638.000.
Shukuri, Shoji; Tamura, Masao; Wada, Yasuo; and Fujisaki, Yoshihisa, 4,716,127, Cl. 437-27.000.

Wada, Yasutaro; and Ohtsuki, Takashi, to Takeda Chemical Industries, Ltd. Apparatus for inspecting solid drugs and a method therefor. 4,636,849, 1-13-87, Cl. 358-106.000.

Wada, Yasuto; Ishiyama, Yoshihiko; and Yamashita, Makoto, to Ichikoh Industries, Ltd. Motor-driven collapsible door mirror. 4,692,000, 9-8-87, Cl. 350-637.000.

Wada, Yoneji, to Origin Company Limited. Filter medium and method of manufacturing the same. 4,645,597, 2-24-87, Cl. 210-222.000.

Wada, Yoneji, to Origin Company Limited. Method and apparatus for filtering impurities out of fluid. 4,655,914, 4-7-87, Cl. 210-168.000.

Wada, Yoshihiro, to Sharp Kabushiki Kaisha. Electronic thermometer. 4,644,481, 2-17-87, Cl. 364-557.000.

Wada, Yoshinori, to Ricoh Company, Ltd. Facsimile relay device. 4,642,697, 2-10-87, Cl. 358-257.000.

Wada, Yoshiomi. Picture book having a telephone dial therein. 4,642,054, 2-10-87, Cl. 434-178.000.

Wada, Yoshiomi. Educational toy. 4,682,955, 7-28-87, Cl. 434-191.000.

Wada, Yuichi: *See*—
Mori, Teijiro; Wada, Yuichi; Sako, Yuji; Tazawa, Hiroaki; and Okado, Hiroyuki, 4,642,429, Cl. 200-144.00R.
Mori, Teijiro; Wada, Yuichi; Nishizako, Shizutaka; Kakizoe, Masahiro; and Masuda, Shigeru, 4,652,707, Cl. 200-144.00R.

Wada, Yukio: *See*—
Fukushima, Shoji; Kato, Motosaburo; Mochizuki, Takashi; and Wada, Yukio, 4,681,645, Cl. 156-73.100.

Wadatsu, Keiji, to Nippon Gakki Seizo Kabushiki Kaisha. Tuning apparatus for stringed musical instrument. 4,649,789, 3-17-87, Cl. 84-298.000.

Waddell, Grady K.: *See*—
Berkland, Philip T.; Heath, Allen W.; and Waddell, Grady K., 4,648,047, Cl. 364-519.000.
Berkland, Philip T.; Heath, Allen W.; and Waddell, Grady K., 4,656,602, Cl. 364-900.000.

Waddell, Thomas T. Split bending crown molding. 4,648,225, 3-10-87, Cl. 52-288.000.

Waddill, Harold G.; and Speranza, George P., to Texaco Inc. Mannich condensates. 4,665,191, 5-12-87, Cl. 548-336.000.

Waddill, Harold G.: *See*—
Renken, Terry L.; Speranza, George P.; and Waddill, Harold G., 4,652,625, Cl. 528-123.000.

Waddington, Clive, to Avco Corporation. Integrated power system. 4,699,021, 10-13-87, Cl. 74-687.000.

Waddoup, William D.; and Norris, Andrew P., to International Standard Electric Corporation. Antenna systems for omnidirectional pattern. 4,672,387, 6-9-87, Cl. 343-781.00P.

Wade, Catherine C.; and McKercher, Yvonne B. Method of creating relief type designs. 4,677,001, 6-30-87, Cl. 427-264.000.

Wade, Darrel E., Sr.; and Spector, George. Protective visor for door handles. 4,700,556, 10-20-87, Cl. 70-455.000.

Wade, David A.: *See*—
Zutell, Stephen W.; Wade, David A.; and Hanson, James V., 4,706,818, Cl. 209-636.000.

Wade, James: *See*—
Murray, Leroy J.; Olson, Lawrence N.; Chavoya, Robert; and Wade, James, 4,640,735, Cl. 156-584.000.

Wade, James J.: *See*—
McQuinn, Roy L.; and Wade, James J., 4,639,445, Cl. 514-222.000.

Wade, Kenneth D.: *See*—
Scott, Darwin H.; and Wade, Kenneth D., 4,649,087, Cl. 428-654.000.

Wade, Mark W. Theft-proofing device for outboard motor propellers. 4,715,783, 12-29-87, Cl. 416-146.00R.

Wade, Rodney L., to Eugene Water & Electric Board. Wet air cleaning apparatus. 4,676,811, 6-30-87, Cl. 55-223.000.

Wade, Wallace R., to Ford Motor Company. Continuous rotary regeneration system for a particulate trap. 4,641,496, 2-10-87, Cl. 60-274.000.

Wade, Wallace R., to Ford Motor Company. Heated fuel injection system. 4,665,881, 5-19-87, Cl. 123-557.000.

Wade, Wallace R.; and Rao, Vemulapalli D. N., to Ford Motor Company. Filtration system for diesel engine exhaust-II. 4,686,827, 8-18-87, Cl. 60-286.000.

Wadensten, Theodore S. Rotary air roller vibrator. 4,653,927, 3-31-87, Cl. 366-125.000.

Wadephul, Jost; and Westphalen, Jurgen. Device for accelerating an abrasive. 4,680,900, 7-21-87, Cl. 51-430.000.

Wadhera, Anil K.; Tang, Alex K.; and Basser, Theodore E., to Northern Telecom Limited. EMI gasket retaining mechanism for electronic equipment. 4,705,916, 11-10-87, Cl. 174-35.0GC.

Wadia, Aspi B.: *See*—
Hakenewerth, Paul A.; Wadia, Aspi B.; Walker, James R.; and White, James M., 4,684,802, Cl. 250-235.000.

Wadkin plc: *See*—
Bater, Reginald K., 4,662,413, Cl. 144-247.000.

Wadleigh, Edward R. Antiburst system for water lines. 4,649,959, 3-17-87, Cl. 138-28.000.

Wadman, Sipke: *See*—
Brouwer, Geert; and Wadman, Sipke, 4,684,251, Cl. 356-315.000.

Wadow, Dieter: *See*—
Comberg, Albert A.; Knops, Alwin; Oepen, Heinrich A.; and Wadow, Dieter, 4,651,047, Cl. 313-22.000.

Wadstrom, Torkel M.: *See*—
Hjerten, Wilhelm E. S.; and Wadstrom, Torkel M., 4,645,757, Cl. 514-54.000.

Wadsworth, David L., to GTE Communication Systems Corporation. Connector filter adapter. 4,673,237, 6-16-87, Cl. 439-607.000.

Wadsworth, Harry J.: *See*—
Donald, David K.; Hann, Michael M.; Saunders, John; and Wadsworth, Harry J., 4,681,966, Cl. 558-255.000.

Wadsworth, LeGrand D. Ligature tool and process for castrating large animals. 4,691,704, 9-8-87, Cl. 128-306.000.

Wadsworth, Nathaniel G.: *See*—
Wilson, Woody W.; and Wadsworth, Nathaniel G., 4,710,883, Cl. 364-466.000.

Wadsworth, Thomas G. Instrumentation for implantation of an elbow prosthesis. 4,686,978, 8-18-87, Cl. 128-303.00E.

Wadsworth, Walter, to Fern Engineering, Inc. Regenerative system for a gas turbine. 4,660,377, 4-28-87, Cl. 60-39.511.

Waechter, David A.: *See*—
Gutschick, Vincent P.; Barron, Michael H.; Waechter, David A.; and Wolf, Michael A., 4,678,330, Cl. 356-222.000.

Waechter, Kenneth F. Liquid injection system with venturi injector. 4,671,215, 6-9-87, Cl. 123-25.00E.

Waechter, Manfred: *See*—
Driscoll, Carleton D.; Najm, Elie M.; and Waechter, Manfred, 4,685,020, Cl. 361-18.000.

Waechter, Thomas R.: *See*—
Davidson, Delma; and Waechter, Thomas R., 4,702,137, Cl. 83-718.000.

Waechtler, Rudolf: *See*—
Grassl, Erwin; and Waechtler, Rudolf, 4,634,810, Cl. 379-61.000.

Waedt, Gunter: *See*—
Jahn, Herbert; and Waedt, Gunter, 4,710,850, Cl. 361-333.000.

Waelbroeck, Francoise: *See*—
Khan, Imran A.; Dietz, Karl-Jurgen; Waelbroeck, Francoise; and Wienhold, Peter, 4,634,454, Cl. 55-16.000.

Waeschle Maschinenfabrik GmbH: *See*—
Hoppe, Hans; Heep, Dieter; Eberhard, Norbert; and Miller, Werner, 4,715,749, Cl. 406-14.000.

Krambrock, Wolfgang; and Hoppe, Hans, 4,715,951, Cl. 209-138.000.

Waese, Jerry R.: *See*—
Magi, Hugo; Boas, Arthur J.; and Waese, Jerry R., 4,636,847, Cl. 358-101.000.

Waespe, Hans-Rudolf: *See*—
Farooq, Saleem; Ehrenfreund, Josef; and Waespe, Hans-Rudolf, 4,699,913, Cl. 514-333.000.

Wafer, Don B.; and Barrington, Claud C., to FMC Corporation. Uni-directional/bi-directional gate valve. 4,711,262, 12-8-87, Cl. 137-14.000.

Wafer, John A.; and Grunert, Kurt A., to Westinghouse Electric Corp. Modular integral circuit interrupter. 4,660,009, 4-21-87, Cl. 335-6.000.

Wafer, John A.: *See*—
Bratkowski, Walter V.; and Wafer, John A., 4,680,562, Cl. 335-16.000.
Chien, Yun-Ko N.; Wafer, John A.; and Bratkowski, Walter V., 4,654,614, Cl. 335-201.000.
Chien, Yun-Ko N.; and Wafer, John A., 4,656,446, Cl. 335-201.000.

Wafer Scale Integration, Inc.: *See*—
Eitan, Boaz, 4,639,893, Cl. 365-185.000.
Eitan, Boaz, 4,649,520, Cl. 365-185.000.

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Lange, Gerhard, 4,680,926, Cl. 59-27.000.
Rudy, Willi; and Lange, Gerhard, 4,694,644, Cl. 59-27.000.

Wagamitsu, Yasuhiko: *See*—
Miyatake, Yoshito; and Wagamitsu, Yasuhiko, 4,673,841, Cl. 313-35.000.

Wagatsuma, Kikuji: *See*—
Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, 4,638,710, Cl. 84-1.260.
Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, 4,683,795, Cl. 84-1.260.
Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, 4,701,872, Cl. 364-718.000.

Wagberg, Michael L.: *See*—
Scobie, William B.; and Wagberg, Michael L., 4,648,418, Cl. 137-67.000.
Scobie, William B.; and Wagberg, Michael L., 4,649,949, Cl. 137-67.000.
Scobie, William B.; and Wagberg, Michael L., 4,651,763, Cl. 137-13.000.
Scobie, William B.; and Wagberg, Michael L., 4,682,758, Cl. 251-84.000.

Wagemann, Harry, to Blohm & Voss AG. Apparatus for a ship's propeller. 4,696,651, 9-29-87, Cl. 440-88.000.

Wagemans Mastricht B.V.: *See*—
Bergs, Franciscus H., 4,633,546, Cl. 16-277.000.

Wagenaar, Kornelis J., to U.S. Philips Corporation. Integrated logic circuit having insulated gate field effect transistors. 4,695,865, 9-22-87, Cl. 357-41.000.

Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; and Stein, Hermann, to Didier-Werke AG and Didier Engineering GmbH. Catalyst for removal of nitrogen oxides from exhaust gases. 4,672,052, 6-9-87, Cl. 502-439.000.

Wagener, Dietrich; Laue, Karl H.; Wunderlich, Egmar; Sander, Theo; Flockenhaus, Claus; Hackler, Erich; Levkov, Blagoje; Grimm, Daniel; Kainer, Hartmut; Stein, Hermann; Buhler, Hans-Eugen; Kalfa, Horst; Jansen, Johann; Stender, Werner; and Max, Arnold, to Didier-Werke AG; and Didier Engineering GmbH. Catalyst for the selective reduction of nitrogen oxides in waste gases and process for the manufacture of such a catalyst. 4,695,559, 9-22-87, Cl. 502-183.000.

Wagener, Gerhard: *See*—
Blecher, Klaus; Fiedler, Reinhard; Beermann, Hubert; and Wagener, Gerhard, 4,669,133, Cl. 4-538.000.

Wagener, Heinze-Jurgen: *See*—
Walk, Hansjorg; and Wagener, Heinze-Jurgen, 4,715,656, Cl. 297-362.000.

Wagener, Kenneth B., to Akzona Incorporated. Electrically conductive porous synthetic polymeric compositions, method for making same and use thereof in an electrodialysis process. 4,652,396, 3-24-87, Cl. 252-500.000.

Wagener, Paul W.: *See*—
Harkiewicz, Gary A.; and Wagener, Paul W., 4,710,703, Cl. 324-86.000.

Wagenhals, Fred W.: *See*—
Lawrence, Donald R., 4,639,007, Cl. 280-234.000.

Wagenknecht, Juergen; and Raedisch, Dieter, to Messerschmitt-Bolkow-Blohm GmbH. System for securing wedge sockets. 4,709,843, 12-1-87, Cl. 227-156.000.

Wagenmakers, Johannes, to U.S. Philips Corporation. Parallel-series converter. 4,639,620, 1-27-87, Cl. 307-446.000.

Wagensommer, Joseph: *See*—
Duvdevani, Ilan; Wagensommer, Joseph; and Agarwal, Pawan K., 4,634,542, Cl. 252-47.500.

Wagensonner, Eduard: *See*—
Stemme, Otto; and Wagensonner, Eduard, 4,652,929, Cl. 358-214.000.

Wagerer, Helmut F.: *See*—
Lorenzi, Donald E.; and Wagerer, Helmut F., 4,633,620, Cl. 51-165.00R.
Lorenzi, Donald E.; Wagerer, Helmut F.; and Spevak, Lev, 4,641,529, Cl. 73-601.000.

Wagers, Kevin J., to Dow Chemical Company, The. Method of forming flexible fastener elements and securing them to a traveling web. 4,683,015, 7-28-87, Cl. 156-66.000.

Wagers, William C.: *See*—
Adams, James H.; Burgess, Jerry L.; and Wagers, William C., 4,640,695, Cl. 55-130.000.

Wages, Dwight E.: *See*—
Akhter, Lalarukh; Atkinson, Ronald E.; Wages, Dwight E.; and Beyer, Harold H., 4,678,606, Cl. 252-542.000.

Waggener, Thomas B. Inverted toroid toy. 4,654,019, 3-31-87, Cl. 446-321.000.

Waggett, Joseph F.: *See*—
Scott, Jane V., and Waggett, Joseph F., 4,705,686, Cl. 424-92.000.

Waggett, Michael C., to M/A-COM, Inc. Waveguide bandpass filter. 4,675,631, 6-23-87, Cl. 333-210.000.

Waggoner, Clinton A.: *See*—
Chambers, Keith W.; and Waggoner, Clinton A., 4,651,091, Cl. 324-204.000.
Dominique, Harry P.; and Waggoner, Clinton A., 4,659,179, Cl. 350-320.000.

Waggoner, Marion G., to Du Pont de Nemours, E. I., and Company. Extruding process for preparing functionalized polyolefin polymers. 4,639,495, 1-27-87, Cl. 525-285.000.

Wagman, Mark E., to Du Pont de Nemours, E. I., and Company. Stabilized polyoxymethylene compositions. 4,640,949, 2-3-87, Cl. 524-227.000.

Wagner, Alfred, to J. H. Benecke GmbH. Process for improving the embossing properties of foamed sheets, and use of a lacquer solution in such process. 4,664,860, 5-12-87, Cl. 264-134.000.

Wagner, Alfred; Hodel, Ulf; and Ames, Adolf, to Swiss Aluminium Ltd. Process and device for manufacturing a section, in particular a hollow section, via extrusion. 4,703,642, 11-3-87, Cl. 72-259.000.

Wagner, Alois, to Hasler AG Bern. Device for a force transmitting connection between two shafts. 4,692,127, 9-8-87, Cl. 464-119.000.

Wagner, Bernd: *See*—
Kleinschroth, Jurgen; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; and Wagner, Bernd, 4,681,881, Cl. 514-258.000.
Kleinschroth, Jurgen; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; and Wagner, Bernd, 4,681,885, Cl. 514-258.000.
Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Kleinschroth, Jurgen; Herrmann, Manfred; Fritschi, Edgar; Tauschel, Horst-Dietmar; Wagner, Bernd; and Wolf, Gunter, 4,698,341, Cl. 514-230.000.

Wagner, Burkhard E.; Karoll, Frederick J.; Gocke, George L.; Jorgensen, Robert J.; and Friis, Nils, to Union Carbide Corporation. Polymerization catalyst for ethylene homopolymerization. 4,684,703, 8-4-87, Cl. 526-88.000.

Wagner, Claus: *See*—
Stanek, Richard; Marx, Hans-Norbert; Hettler, Wendelin; and Wagner, Claus, 4,716,054, Cl. 427-297.000.

Wagner, Curtis D. Apparatus for thermoforming plastic articles. 4,674,972, 6-23-87, Cl. 425-388.000.

Wagner, Curtis D. Apparatus for forming plastic articles. 4,692,111, 9-8-87, Cl. 425-388.000.

Wagner, Daniel B., to Becton Dickinson and Company. Assay for a ligand by use of supported binder and sac lysing agent. 4,656,129, 4-7-87, Cl. 435-7.000.

Wagner, Daniel B. Assay employing sacs and sac lysing agent. 4,666,830, 5-19-87, Cl. 435-7.000.

Wagner, Daniel B., and Baffi, Robert A., to Becton, Dickinson and Company. Homogeneous fluorescence immunoassay using a light absorbing material. 4,680,275, 7-14-87, Cl. 436-518.000.

Wagner, Daniel B., and Baffi, Robert A., to Becton Dickinson and Company. Sac having a marker linked thereto. 4,698,263, 10-6-87, Cl. 428-402.200.

Wagner, Daniel B., and Baffi, Robert A., to Becton Dickinson and Company. Vesicle including a metal marker for use in an assay. 4,707,453, 11-17-87, Cl. 436-501.000.

Wagner, Daniel B.: *See*—
Campbell, Robert L.; Wagner, Daniel B.; and O'Connell, James P., 4,703,017, Cl. 436-501.000.
O'Connell, James P.; Piran, Uri; and Wagner, Daniel B., 4,695,554, Cl. 436-528.000.

Wagner, David G., to Moore Business Forms, Inc. Mailer including return envelope and remittance stub combined in outer envelope. 4,709,850, 12-1-87, Cl. 229-73.000.

Wagner, David J., to Motorola, Inc. Electronic turn signal cancellation apparatus. 4,638,290, 1-20-87, Cl. 340-56.000.

Wagner, David L., to Boeing Company, The. Pump for precisely dispensing liquids. 4,653,673, 3-31-87, Cl. 222-309.000.

Wagner, David P.: *See*—
Broomfield, Donald J.; Briggs, Paul C.; Parker, Eric G.; and Wagner, David P., 4,715,316, Cl. 118-716.000.

Wagner, Dennis, and Wells, Harold D., to Pet Incorporated. Method of infrared tunnel oven cooking of food products. 4,664,923, 5-12-87, Cl. 426-233.000.

Wagner, Dieter: *See*—
Huebner, Horst; Tauber, Guenter; Hofbauer, Peter; Glatzer, Roland; Beintze, Guenther; Wagner, Dieter; and Riege, Guenter, 4,685,328, Cl. 73-55.000.

Wagner, Dietmar, to International Business Machines Corporation. Method for surface testing. 4,681,442, 7-21-87, Cl. 356-237.000.

Wagner, Donald W.: *See*—
Bennett, Robert B., III; and Wagner, Donald W., 4,681,769, Cl. 425-540.000.

Wagner, Earl F.; and Smith, Charles M., to General Motors Corporation. Quick change mold insert. 4,684,101, 8-4-87, Cl. 249-144.000.

Wagner, Edward D.; and Trautwein, Richard R., to Wagner Electronic Products, Inc. Moisture measuring method and apparatus. 4,683,418, 7-28-87, Cl. 324-61.00P.

Wagner Electronic Products, Inc.: *See*—
Wagner, Edward D.; and Trautwein, Richard R., 4,683,418, Cl. 324-61.00P.

Wagner, Elmar; and Dermitzakis, Stefan, to Telefunken Electronic GmbH. Photoelectric current amplifier. 4,651,111, 3-17-87, Cl. 330-59.000.

Wagner, Elmar: *See*—
Angerstein, Jorg; Wagner, Elmar; and Dermitzakis, Stefanos, 4,674,093, Cl. 372-38.000.
Angerstein, Jorg; Mutz, Dieter; and Wagner, Elmar, 4,697,880, Cl. 350-247.000.

Wagner, Emery L.: *See*—
Williams, John F.; and Wagner, Emery L., 4,690,669, Cl. 494-14.000.

Wagner, Franz: *See*—
Schmitz, Joachim; Wagner, Franz; and Stegler, Adrian, 4,676,560, Cl. 312-268.000.

Wagner, Frederic M.: *See*—
Juarre, Philip R.; Wagner, Frederic M.; and Wildgen, Leo F., 4,689,917, Cl. 49-380.000.

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Waja, Georges H., to Essilor International (Compagnie Generale d'Optique). Process for making a soft contact lens of natural proteinaceous polymer(s), 4,650,616, 3-17-87, Cl. 264-2.600.

Wakabayashi, Hideo. *See*—
Inashima, Satoshi; Terada, Kiyoshi; Wakabayashi, Hideo; and Tanaka, Yoshiharu, 4,689,684, Cl. 358-190.000.

Wakabayashi, Hiroharu; and Nitto, Yasuhiko, to Kokusai Denshin Denwa Co., Ltd. Optical repeater monitoring system, 4,710,976, 12-1-87, Cl. 455-601.000.

Wakabayashi, Hiroshi, to Nippon Kogaku K. K. Camera with switchable focal length, 4,643,555, 2-17-87, Cl. 354-403.000.

Wakabayashi, Hiroshi; and Kawamura, Joe, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Curable composition, 4,657,978, 4-14-87, Cl. 525-100.000.

Wakabayashi, Hiroshi; Miyamoto, Hidenori; and Terunuma, Hiroshi, to Nippon Kogaku K. K. Power supply device of a camera. 4,668,070, 5-26-87, Cl. 354-484.000.

Wakabayashi, Hiroshi, to Nippon Kogaku K. K. Camera having partially retractable taking optical system. 4,669,848, 6-2-87, Cl. 354-400.000.

Wakabayashi, Hiroshi; Obikawa, Fumito; and Ikeda, Masayuki, to Nippon Kogaku K. K. Film feeding device in a camera. 4,688,763, 8-25-87, Cl. 354-173.110.

Wakabayashi, Hiroshi; and Kazami, Kazuyuki, to Nippon Kogaku K. K. Film feeding apparatus for camera. 4,690,533, 9-1-87, Cl. 354-173.110.

Wakabayashi, Hiroshi; Kazami, Kazuyuki; and Uchida, Isao, to Nippon Kogaku K. K. Display device of a camera system. 4,697,898, 10-6-87, Cl. 354-127.130.

Wakabayashi, Hiroshi; and Wakamiya, Koichi, to Nippon Kogaku K. K. Parallax correcting device in the finder of a camera. 4,697,901, 10-6-87, Cl. 354-221.000.

Wakabayashi, Hiroshi. *See*—
Kazami, Kazuyuki; and Wakabayashi, Hiroshi. 4,637,702, Cl. 354-173.110.
Kazami, Kazuyuki; Nakamura, Toshiyuki; and Wakabayashi, Hiroshi, 4,714,938, Cl. 354-173.100.

Wakabayashi, Hiroyuki; and Matsubara, Tamotsu, to Nippondenso Co., Ltd. Plastic part resistant to deicing salt. 4,711,806, 12-8-87, Cl. 428-334.000.

Wakabayashi, Kouji. *See*—
Masuhara, Kenichi; Yamayoshi, Kazuo; and Wakabayashi, Kouji, 4,695,516, Cl. 428-623.000.
Masuhara, Kenichi; Yamayoshi, Kazuo; and Wakabayashi, Kouji, 4,702,968, Cl. 428-623.000.

Wakabayashi, Masashi. *See*—
Hara, Yoshiaki; and Wakabayashi, Masashi, 4,673,314, Cl. 405-215.000.

Wakabayashi, Mikiya. *See*—
Negishi, Hideo; and Wakabayashi, Mikiya, 4,685,590, Cl. 221-241.000.

Wakabayashi, Noboru; Akiyama, Katsuhiko; Soda, Yutaka; and Uchida, Hiroyuki, to Sony Corporation. Magnetic transducer head assembly with support system therefor. 4,642,716, 2-10-87, Cl. 360-104.000.

Wakabayashi, Noboru. *See*—
Suyama, Hideo; Imakoshi, Shigeyoshi; Soda, Yutaka; Fuse, Takeyuki; Abe, Iwao; and Wakabayashi, Noboru, 4,673,999, Cl. 360-125.000.

Wakabayashi, Noriaki; and Ishibashi, Hiromichi, to Matsushita Electric Industrial Co., Ltd. Optical disk drive apparatus. 4,669,073, 5-26-87, Cl. 396-45.000.

Wakabayashi, Sadao. *See*—
Nagaoka, Kazuo; Isobe, Tomoichi; Kanasugi, Toshihiko; Suzuki, Nobuyuki; Wakabayashi, Sadao; Uchida, Kenji; Tsukamoto, Hideharu; Ohno, Mitsuru; and Shimano, Tadahiko, 4,649,648, Cl. 33-125.00R.

Wakabayashi, Seiichi. *See*—
Yamanashi, Hidenori; Inada, Toshio; and Wakabayashi, Seiichi, 4,701,662, Cl. 313-51.000.

Wakabayashi, Takayuki. *See*—
Tomita, Yukio; Wakabayashi, Takayuki; Matsuda, Mitsunobu; Shibamoto, Nobuji; and Yamashiro, Yoshihiro, 4,645,065, Cl. 198-573.000.

Wakabayashi, Takeshi. *See*—
Kamei, Takao; Ono, Fuminobu; Komai, Keiichi; Wakabayashi, Takeshi; Ogawa, Takayuki; Ito, Hideaki; and Shirakawa, Kiyoshi, 4,702,745, Cl. 44-10.00D.

Wakabayashi, Tatsuro. *See*—
Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Kouichi, 4,638,538, Cl. 29-149.50C.
Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Koichi, 4,660,401, Cl. 72-331.000.
Kohama, Masayuki; Wakabayashi, Tatsuro; and Tsunoda, Kouichi, 4,693,107, Cl. 72-354.000.

Wakabayashi, Tetsushi; Sugimoto, Masahiro; and Muratake, Kiyoshi, to Fujitsu Limited. Semiconductor device having radiator. 4,688,077, 8-18-87, Cl. 357-81.000.

Wakabayashi, Tomoko. *See*—
Fujita, Hisao; Yamazaki, Hiroyuki; and Wakabayashi, Tomoko, 4,688,903, Cl. 350-432.000.

Wakabayashi, Toshio; Kumonaka, Takahiro; and Suwabe, Yasushi, to Terumo Kabushiki Kaisha. 1-[5-(3,4,5-Trimethoxy phenyl)-2,4-pentadienoyl]-4-(substituted carbonylmethyl)-piperazines having vasodilating activity. 4,656,172, 4-7-87, Cl. 514-252.000.

Wakabayashi, Toshio; Takai, Makoto; Ichikawa, Shuji; Arai, Junichiro; and Murota, Seitsu, to Terumo Corporation. Amide derivatives and 5-lipoxygenase inhibitors containing the same as an active ingredient. 4,673,684, 6-16-87, Cl. 514-327.000.

Wakabayashi, Toshio; Takahashi, Keiko; and Katayama, Hajime, to Terumo Kabushiki Kaisha. 1-substituted 5-fluorouracil useful for inhibiting the aggregation of platelets. 4,704,393, 11-3-87, Cl. 514-274.000.

Wakabayashi, Toshio. *See*—
Samejima, Masayoshi; Matsuda, Saburo; Wakabayashi, Toshio; and Hayakawa, Naoki, 4,670,261, Cl. 424-127.000.

Wakabayashi, Tsutomu, to Nippon Kogaku K. K. Alarm device for camera. 4,688,921, 8-25-87, Cl. 354-416.000.

Wakabayashi, Yoh'ichi. *See*—
Watanabe, Akira; Takeuchi, Yoshimitsu; Kihara, Seiji; Mitsuda, Makoto; and Wakabayashi, Yoh'ichi, 4,681,633, Cl. 106-35.00.

Wakahara, Kaoru. *See*—
Umeyama, Mitsuhiro; Wakahara, Kaoru; Ohtani, Hisao; Kametaka, Kenichi; Kinoshita, Masaru; and Kobayashi, Nobuyuki, 4,693,354, Cl. 192-106.100.

Wakahara, Yasushi. *See*—
Kakuda, Yoshiaki; Wakahara, Yasushi; and Norigoe, Masamitsu, 4,694,422, Cl. 364-900.000.

Wakahara, Yasuyuki. *See*—
Takagi, Yoshito; Wakahara, Yasuyuki; Haritano, Satoru; Mori, Masanori; Hamaguchi, Masayuki; and Yoshikawa, Naoki, 4,673,838, Cl. 310-239.000.

Wakai, Katsuro, to Hitachi, Ltd. Scan control apparatus and method for data processing apparatus. 4,697,267, 9-29-87, Cl. 371-25.000.

Wakai, Katsuro. *See*—
Kitano, Masahiro; Wakai, Katsuro; and Hashimoto, Masaho, 4,667,325, Cl. 371-25.000.
Kubo, Kanji; and Wakai, Katsuro, 4,710,894, Cl. 364-900.000.

Wakai, Shinzi, to Nissan Motor Co., Ltd. Flow velocity distribution detecting system. 4,640,316, 2-3-87, Cl. 139-1.00R.

Wakai, Yoichi; and Chihara, Hiroyuki, to Seiko Epson Kabushiki Kaisha. Pocket television receivers. 4,646,157, 2-24-87, Cl. 358-236.000.

Wakaizumi, Kiyoshi, to Janome Sewing Machine Co., Ltd. Index signal issue mechanism of a magnetic record and reproduction device. 4,654,725, 3-31-87, Cl. 360-97.000.

Wakalopulos, George, to RPC Industries. Ion plasma electron gun. 4,694,222, 9-15-87, Cl. 315-111.210.

Wakamatsu, Fumio, to Aisin Seiki Kabushiki Kaisha. Device for installing skin on automotive seat. 4,715,651, 12-29-87, Cl. 297-219.000.

Wakamatsu, Fumio. *See*—
Kazaoka, Kenichi; Wakamatsu, Fumio; and Shinkai, Yasuo, 4,711,497, Cl. 297-458.000.

Wakamatsu, Kazutoshi. *See*—
Oota, Takashi; Uchikawa, Tadao; Okihara, Naoto; Aihara, Yoshio; and Wakamatsu, Kazutoshi, 4,672,257, Cl. 310-328.000.

Wakamatsu, Saburo. *See*—
Honda, Tatsutoku; Endo, Michiyuki; Wakamatsu, Saburo; and Kudo, Yoshio, 4,682,855, Cl. 350-276.00R.
Kudo, Yoshio; Kumagai, Hirohiko; Yamaguchi, Katsunobu; and Wakamatsu, Saburo, 4,650,287, Cl. 350-322.000.

Wakamatsu, Syuji; Komatsu, Toshio; Inoue, Yoshiaki; and Harima, Yoshihiko, to Mitsubishi Gas Chemical Company, Inc. Oxygen absorbent packet. 4,667,814, 5-26-87, Cl. 206-0.700.

Wakamiya, Katsutoshi; Matsumoto, Toru; and Yamazaki, Masuo, to Canon Kabushiki Kaisha. Pressure-fixable toner comprising combination of a compound having hydrocarbon chain and a compound having amino group. 4,656,111, 4-7-87, Cl. 430-109.000.

Wakamiya, Katsutoshi; Matsumoto, Toru; and Yamazaki, Masuo, to Canon Kabushiki Kaisha. Developing method and insulating non-magnetic toner therefor. 4,661,430, 4-28-87, Cl. 430-120.000.

Wakamiya, Koichi, to Nippon Kogaku K. K. Changeable magnification inverted galilean finder. 4,653,887, 3-31-87, Cl. 354-219.000.

Wakamiya, Koichi, to Nippon Kogaku K. K. Behind stop lens. 4,676,607, 6-30-87, Cl. 350-476.000.

Wakamiya, Koichi, to Nippon Kogaku K. K. Wide angle lens. 4,705,364, 11-10-87, Cl. 350-463.000.

Wakamiya, Koichi, to Nippon Kogaku K. K. Albada finder. 4,707,098, 11-17-87, Cl. 354-219.000.

Wakamiya, Koichi. *See*—
Wakabayashi, Hiroshi; and Wakamiya, Koichi, 4,697,901, Cl. 354-221.000.

Wakamiya, Masayuki. *See*—
Yamashita, Ichiro; Wakamiya, Masayuki; Hase, Hiroyuki; and Tokuono, Shinya, 4,696,192, Cl. 73-728.000.

Wakamiya, Sukeyoshi; Takeuchi, Naokazu; Hama, Yoshihisa; Akashi, Tatsu; and Shimura, Tatsuo, to Mitsubishi Jukogyo Kabushiki Kaisha; and Toyo Boseki Kabushiki Kaisha. Apparatus for thermally fixing the formed thermoplastic products. 4,666,394, 5-19-87, Cl. 425-342.100.

Wakamiya, Yoshinori, to Mitsubishi Denki Kabushiki Kaisha. Shape control apparatus for flat material. 4,648,256, 3-10-87, Cl. 72-8.000.

Wakamiya, Yoshinori, to Mitsubishi Denki Kabushiki Kaisha. Shape control apparatus for flat material. 4,658,614, 4-21-87, Cl. 72-8.000.

Wakamiya, Yoshinori; and Sumino, Tomoko, to Mitsubishi Denki Kabushiki Kaisha. Method for setting steel stock discharge temperature of heating furnace in hot rolling line. 4,709,570, 12-1-87, Cl. 72-365.000.

Wakamiya, Yoshinori. *See*—
Kohama, Satoshi; Wakamiya, Yoshinori; and Tsuruda, Makoto, 4,657,507, Cl. 432-18.000.
Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased; Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Eiji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.

Wakamori, Fumio; Ohata, Hideo; Miyaoka, Shinichiro; and Funabashi, Motohisa, to Hitachi, Ltd. Method of estimating fracture point of pipe line network. 4,712,182, 12-8-87, Cl. 364-507.000.

Wakano, Shigeru. *See*—
Kurimoto, Tatsuo; Hoboh, Yoshihiko; Ohishi, Hiroshi; Noumi, Ryoichi; and Wakano, Shigeru, 4,659,631, Cl. 428-624.000.

Wakao, Noriaki, to Nippon Mining Co., Ltd., a part interest. Temperature-difference-actuated pump employing nonelectrical valves. 4,655,691, 4-7-87, Cl. 417-122.000.

Wakao, Teruyoshi: *See*—
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,670,852, Cl. 364-565.000.
Masaki, Shouichi; Tamura, Kimio; Nakashima, Noriyuki; Wakao, Teruyoshi; Asami, Ken; and Sakai, Kazunori, 4,672,547, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,651,281, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,665,490, Cl. 364-426.000.
Masaki, Syouichi; Tamura, Kimio; Wakao, Teruyoshi; Nakashima, Noriyuki; Asami, Ken; and Sakai, Kazunori, 4,666,218, Cl. 303-106.000.
Nakashima, Noriyuki; Wakao, Teruyoshi; Tamura, Kimio; and Makino, Nobuhiko, 4,664,409, Cl. 280-707.000.

Wakasa, Akinori: *See*—
Morita, Tetuya; Wakasa, Akinori; Ogawa, Yutaka; and Ogasawara, Takayuki, 4,651,692, Cl. 123-270.000.

Wakasa, Hiroyuki: *See*—
Mamiya, Toshiharu; and Wakasa, Hiroyuki, 4,677,530, Cl. 361-414.000.

Wakasa, Satoshi; and Okazaki, Toru, to Kabushiki Kaisha Komatsu Seisakusho. Diesel engine fuel injection pump capable of injection timing adjustment. 4,712,985, 12-15-87, Cl. 417-486.000.

Wakase, Hiroshi, to Takara Co., Ltd. Four-wheel drive unit for toy vehicle. 4,710,147, 12-1-87, Cl. 446-464.000.

Wakasugi, Tomio, and Maeda, Akinori, to Hewlett-Packard Company. Reed switch with high insulation. 4,661,791, 4-28-87, Cl. 335-151.000.

Wakasugi, Yasumasa: *See*—
Sugimoto, Masahiro; Wakasugi, Yasumasa; and Harada, Shigeki, 4,698,663, Cl. 357-81.000.

Wakata, Hideo: *See*—
Imoto, Yuzo; Wakata, Hideo; Takei, Toshihiro; and Hattori, Yoshiyuki, 4,714,296, Cl. 303-6.00C.
Yogo, Kazutoshi; and Wakata, Hideo, 4,703,823, Cl. 180-197.000.
Yogo, Kazutoshi; and Wakata, Hideo, 4,714,864, Cl. 318-52.000.

Wakata, Hitoshi: *See*—
Haruta, Kenyu; Wakata, Hitoshi; Sato, Yukio; Nagao, Haruhiko; Nakatani, Hajime; and Kita, Hideki, 4,686,682, Cl. 372-87.000.

Wakata, Shigekazu: *See*—
Saijo, Eiji; and Wakata, Shigekazu, 4,679,874, Cl. 439-595.000.

Wakatake, Koichi, to Japan Tectron Instruments Corporation; and Olympus Optical Company, Limited. Automatic analysis apparatus. 4,647,432, 3-3-87, Cl. 422-64.000.

Wakatsuki, Akira: *See*—
Isao, Matsuura; Kobayashi, Masanori; and Wakatsuki, Akira, 4,659,764, Cl. 524-399.000.

Wakatsuki, Junya: *See*—
Kurosaki, Tomiharu; Wakatsuki, Junya; Furugaki, Hisakazu; and Kojima, Katsutoshi, 4,670,575, Cl. 558-146.000.

Wakatsuki, Kizuku: *See*—
Kakugo, Masahiro; and Wakatsuki, Kizuku, 4,663,394, Cl. 525-297.000.
Shiga, Akinobu; Kakugo, Masahiro; Kozima, Junpei; and Wakatsuki, Kizuku, 4,696,979, Cl. 525-247.000.

Wakatsuki, Tadashi: *See*—
Niwa, Yoshiyuki; Kashiwagi, Masahiro; Yasue, Masahiro; Bandoh, Shunichi; Kakimuma, Asao; and Wakatsuki, Tadashi, 4,676,720, Cl. 416-134.00A.

Wakatsuki, Yasuo: *See*—
Yamazaki, Hiroshi; Wakatsuki, Yasuo; Fujii, Chiyuki; and Watanabe, Seiichi, 4,656,299, Cl. 556-22.000.

Wakayama, Naoaki; Yamagishi, Hideshi; Fukakusa, Shinji; and Tomoda, Toshimasa, to Japan Atomic Energy Research Institute; and Mitsubishi Denki Kabushiki Kaisha. Gamma ray compensation-type neutron ionization chamber. 4,682,036, 7-21-87, Cl. 250-374.000.

Wakazawa, Tadashi: *See*—
Shibahara, Seiji; Okonogy, Tsuneo; Murai, Yasushi; Fukatsu, Shunzo; Nida, Taro; Christensen, Burton G.; and Wakazawa, Tadashi, 4,645,769, Cl. 514-210.000.

Wakazawa, Toru: *See*—
Onohara, Akira; and Wakazawa, Toru, 4,647,598, Cl. 360-105.000.

Wake, David E., to De La Rue Systems Limited. Sheet receiving apparatus. 4,676,432, 6-30-87, Cl. 232-43.200.

Wake, David E.; Robinson, Anthony L.; and Croset, Michel R., to De La Rue Systems Limited. Sheet presenting assembly. 4,708,335, 11-24-87, Cl. 271-187.000.

Wake Forest University: *See*—
Doellgast, George J., 4,668,621, Cl. 435-13.000.

Wake, Kanji: *See*—
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,674,443, Cl. 118-733.000.
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,676,999, Cl. 427-250.000.
Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.
Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; and Wada, Tetsuyoshi, 4,643,131, Cl. 118-718.000.

Wake, Masayoshi; Taguchi, Osamu; and Imaizumi, Mitsuyuki, to Mitsubishi Denki Kabushiki Kaisha. Superconductor. 4,673,774, 6-16-87, Cl. 174-94.00R.

Wakefield, Barry R.; and Pullen, Francis J., to Devro, Inc. Heat sealing machine. 4,689,854, 9-1-87, Cl. 17-1.00R.

Wakefield Corporation, The: *See*—
Clapp, David D., 4,653,354, Cl. 76-101.00D.

Wakefield, G. Felix; Bender, David L.; and Rea, Samuel N., to Atlantic Richfield Company. Textured silicon ribbon growth wheel. 4,688,623, 8-25-87, Cl. 164-423.000.

Wakefield, James R., to Hall Systems, Inc. Floating tare adjustment for continuous conveyor weighing systems. 4,648,056, 3-3-87, Cl. 364-567.000.

Wakefield, Theodore D., II: *See*—
Kaiser, Robert T.; Curran, Neal J.; and Wakefield, Theodore D., II, 4,671,257, Cl. 128-25.00R.

Wakelin, Thomas C. V. Box for holding thin objects. 4,634,001, 1-6-87, Cl. 206-45.180.

Wakelin, Thomas C. V. Box for holding thin objects. 4,693,364, 9-15-87, Cl. 206-45.180.

Wakeman, Thomas G.; and Walker, Neil, to General Electric Company. Blade pitch varying means. 4,657,484, 4-14-87, Cl. 416-127.000.

Wakeman, Thomas G.: *See*—
Kelm, James S.; Maclin, Harvey M.; Vickers, Edward C.; and Wakeman, Thomas G., 4,679,400, Cl. 60-722.000.
Kelm, James S.; Ludwig, Arthur L.; Maclin, Harvey M.; Roggenkamp, Steven K.; and Wakeman, Thomas G., 4,688,310, Cl. 29-156.80R.

Wakeman, William R., to Moore Business Forms, Inc. Business form assembly with leaders. 4,705,297, 11-10-87, Cl. 281-2.000.

Wakerly, John F., to David Systems, Inc. Distributed clock synchronization in a digital data switching system. 4,680,779, 7-14-87, Cl. 375-107.000.

Waketa, Hideharu: *See*—
Kasai, Shin; Waketa, Hideharu; Kato, Keiichi; and Kawaguchi, Yutaka, 4,707,565, Cl. 174-68.500.

Waki, Kouichirou: *See*—
Boda, Keiji; Waki, Kouichirou; and Yanagisawa, Keizo, 4,709,596, Cl. 74-868.000.
Higashi, Haruki; Yashiki, Seiji; Waki, Kouichirou; and Kikuchi, Toshiyuki, 4,640,394, Cl. 192-3.290.

Waki, Osamu, to Matsushita Electric Industrial Co., Ltd. Pager with improved battery saving function. 4,652,875, 3-24-87, Cl. 340-825.440.

Waki, Tatsuo: *See*—
Tomioka, Hisatsugu; Waki, Tatsuo; and Miyata, Yoshiki, 4,709,783, Cl. 182-8.000.

Waki, Tazuo: *See*—
Tomioka, Hisatsugu; Waki, Tazuo; and Sugaya, Hiroyuki, 4,655,327, Cl. 188-290.000.

Waki, Yusaku; and Aoyama, Hideki, to Yokohama Rubber Co., Ltd., The. Method of controlling lubricating-oil quantity for internal mixer. 4,633,976, 1-6-87, Cl. 184-6.400.

Wakikado, Takahiro: *See*—
Satonaka, Shinobu; Takahashi, Masanobu; Wakikaido, Takahiro; and Yoshioka, Masahiro, 4,708,470, Cl. 355-77.000.

Wakimasu, Mitsuhiro: *See*—
Tsukamoto, Kyozo; Ichimori, Yuzo; and Wakimasu, Mitsuhiro, 4,681,848, Cl. 435-240.000.

Wakimoto, Harumi: *See*—
Komori, Kazuhiro; Meguro, Satoshi; Ito, Satoru; Kihara, Toshimasa; and Wakimoto, Harumi, 4,653,026, Cl. 365-189.000.

Wakimura, Kazuo: *See*—
Hiai, Athuhiko; Wakimura, Kazuo; and Tanaka, Masao, 4,656,013, Cl. 423-89.000.

Wakino, Kikuo; Tamura, Hiroshi; and Ishikawa, Youhei, to Murata Manufacturing Co., Ltd. Dielectric resonator device. 4,692,727, 9-8-87, Cl. 333-219.000.

Wakisaka, Yoshiharu; Uo, Junko; Matsumoto, Kouichi; Ohodaira, Osamu; and Tanaka, Kentaro, to Shionogi & Co., Ltd. Bacterial insecticide and production thereof. 4,713,241, 12-15-87, Cl. 424-93.000.

Wakisaka, Yoshiki, to Kabushiki Kaisha Nice Shot; and Kabushiki Kaisha Cyuou Kousoku Consultant. Method of producing a golfing aid. 4,666,156, 5-19-87, Cl. 273-32.00H.

Wakita, Kazuto; Tsuchiya, Kazuo; Nagayasu, Isao; and Emoto, Ikuo, to Ube Industries, Ltd. Substrate for planographic plate. 4,642,260, 2-10-87, Cl. 428-215.000.

Wakita, Kazuto; Tsuchiya, Kazuo; Kobayashi, Kazuaki; Higashitsuji, Ken; and Kojima, Teruhisa, to Ube Industries, Ltd.; and Maruhishi Oil Chemical Co., Ltd. Process for producing a shaped electroconductive thermoplastic resin composition article. 4,675,143, 6-23-87, Cl. 264-104.000.

Wakita, Naomasa; and Okuda, Makoto, to NGK Spark Plug Co., Ltd. Light deflecting apparatus. 4,705,365, 11-10-87, Cl. 350-487.000.

Wakita, Naomasa: *See*—
Hattori, Shuzo; Wakita, Naomasa; and Okuda, Makoto, 4,660,941, Cl. 350-487.000.
Ohya, Kanji; Wakita, Naomasa; and Nakagawa, Yasuhiko, 4,651,046, Cl. 310-328.000.

Wakita, Syotaro: *See*—
Nogi, Munehiro; Ohashi, Ryutaro; Miyazaki, Koichiro; Tanaka, Takashi; Tamakoshi, Koichiro; Tamano, Yoshiziro; Wakita, Syotaro; and Suzuki, Toshimitsu, 4,641,671, Cl. 134-57.00D.

Wakita, Yasukuni: *See*—
Matsuno, Yutaka; Hatanaka, Yasunori; Shimizu, Hirokazu; Ishigaki, Masahiro; Harada, Hiroshi; Kawada, Michihiro; and Wakita, Yasukuni, 4,673,188, Cl. 277-212.0F B.

Wakiya, Michio; Takefuta, Hideyasu; and Kono, Hiromi, to Diesel Kiki Co., Ltd. Automatic transmission system for vehicles. 4,662,494, 5-5-87, Cl. 192-0.052.

Wako Pure Chemical Industries, Ltd.: *See*—
Ikenaka, Tokuji; and Omichi, Kaoru, 4,697,006, Cl. 536-17.200.
Miyashita, Yoshinobu; Hamanaka, Tadashi; and Iwata, Kenzi, 4,714,675, Cl. 435-32.000.
Sakata, Yoshitsugu; Shintani, Akinori; Matsuo, Tetsuya; Sugiyama, Haruhiko; and Tokioka, Noboryuki, 4,634,671, Cl. 435-188.000.
Sakata, Yoshitsugu; Hamanaka, Tadashi; Iwata, Kenzi; and Nakaue, Misato, 4,665,038, Cl. 436-97.000.
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Yamanishi, Kazuhiko; Shintani, Akinori; Okajima, Satoru; and Hanada, Toshiro, 4,673,635, Cl. 435-10.000.
Yamanishi, Kazuhiko; and Hanada, Toshiro, 4,695,540, Cl. 435-10.000.

Wako Technical Research Co., Ltd.: *See*—
Konishi, Keisuke; and Tanaka, Isao, 4,654,911, Cl. 8-158.000.

Waks, Edna: Food processing apparatus. 4,660,467, 4-28-87, Cl. 99-339.000.

Wakselman, Claude: *See*—
Francese, Catherine; Tordeux, Marc; and Wakselman, Claude, 4,701,569, Cl. 568-812.000.

Wakuda, Katsumi; and Miyano, Masaji, to Kabushiki Kaisha Kawai Gakki Seisakusho. Key apparatus for electronic musical instrument. 4,667,563, 5-26-87, Cl. 84-439.000.

Wakuda, Masanori: *See*—
Hakata, Yoshitami; Wakuda, Masanori; and Suzuki, Kimio, 4,710,770, Cl. 340-870.180.

Wakui, Akio; Usuda, Masahiro; and Nishizawa, Naotake, to Orion Kikai Kabusiki Kaisha. Milk amount measuring device for milking machines and the method for measuring the same. 4,669,307, 6-2-87, Cl. 73-223.000.

Wakui, Natsuko: *See*—
Isogai, Nobuo; Hosokawa, Motoyuki; Okawa, Takashi; Wakui, Natsuko; and Watanabe, Toshiyasu, 4,650,911, Cl. 568-902.000.
Isogai, Nobuo; Okawa, Takashi; Hosokawa, Motoyuki; Tsuji, Tomoji; and Wakui, Natsuko, 4,678,858, Cl. 568-902.000.

Wakui, Shinji: *See*—
Nanno, Ikuo; Morimoto, Yasuaki; Hoshi, Seiji; Wakui, Shinji; and Hoshi, Hideo, 4,650,294, Cl. 350-484.000.

Wakui, Yoko: *See*—
Ooue, Michio; Wakui, Yoko; and Hachino, Hiroaki, 4,651,191, Cl. 357-71.000.

Wakui, Yoshiaki; and Umeda, Hiroyuki, to Victor Company of Japan, Ltd. Tape cassette having a transparent window. 4,669,021, 5-26-87, Cl. 360-132.000.

Wakui, Yukio: *See*—
Takahashi, Toshiro; Tokushima, Tadao; Suzuki, Yoshifumi; and Wakui, Yukio, 4,681,669, Cl. 204-35.100.

Wakunaga Kono Kabushiki Kaisha: *See*—
Wakunaga, Manji; and Nishimura, Yasufumi, 4,686,185, Cl. 435-206.000.

Wakunaga, Manji; and Nishimura, Yasufumi, to Wakunaga Kono Kabushiki Kaisha. Microorganism of new species of genus Streptomyces and use thereof for production of chitinase. 4,686,185, 8-11-87, Cl. 435-206.000.

Wakunaga Seiyaku Kabushiki Kaisha: *See*—
Miyoshi, Kenichi; and Fuwa, Toru, 4,667,025, Cl. 536-27.000.

Wakusawa, Kumaki: *See*—
Kuromaru, Hiroshi; Morimoto, Tadakiyo; Kuwahara, Koji; Fujiwara, Kenji; Shimizu, Yujiro; Miyauchi, Reizo; Wakusawa, Kumaki; Takama, Hideaki; Waseda, Masashi; and Fujita, Akihisa, 4,667,551, Cl. 83-72.000.

Walambe, Anil G.: *See*—
Churchill, William M.; and Walambe, Anil G., 4,653,618, Cl. 188-322.170.

Walatka, Vernon V.: *See*—
Hinnenkamp, James A.; and Walatka, Vernon V., 4,670,474, Cl. 518-713.000.
Hinnenkamp, James A.; and Walatka, Vernon V., 4,707,500, Cl. 518-713.000.

Walba, David M.; and Vohra, Rohini. Synthesis of new liquid crystal materials possessing phenylbenzoate or biphenyl core units and (2,3)-epoxyalkyloxiranemethanol chiral tails. 4,638,073, 1-20-87, Cl. 549-556.000.

Walba, David M., to University Patents, Inc. Ferroelectric smectic liquid crystals. 4,668,829, 5-26-87, Cl. 568-650.000.

Walba, David M.; and Razavi, Homaune A., to University of Colorado Foundation. Liquid crystal compounds and compositions containing same. 4,695,650, 9-22-87, Cl. 560-109.000.

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Walblay, Edward J. Vehicle bed cover. 4,647,103, 3-3-87, Cl. 296-100.000.

Walborn, John B. Escape device. 4,640,388, 2-3-87, Cl. 182-231.00.

Walbro Corporation: *See*—
Baughman, James S., 4,676,101, Cl. 73-304.00C.
Tuckey, Charles H., 4,646,700, Cl. 123-510.000.
Tuckey, Charles H., 4,649,884, Cl. 123-457.000.
Tuckey, Charles H., 4,697,995, Cl. 418-15.000.
Tuckey, Charles H., 4,715,777, Cl. 415-53.00T.

Walch, Wolfgang: *See*—
Gelbert, Horst; Grimm, Walter; Kiessling, Michael; Newiger, Winfried; Walch, Wolfgang; and Werner, Hans, 4,666,294, Cl. 355-89.000.
Newiger, Winfried; Walch, Wolfgang; Rach, Harry; and Kiessling, Michael, 4,707,116, Cl. 355-30.000.

Walchli, Urs: *See*—
Hanni, Eduard; and Walchli, Urs, 4,700,599, Cl. 83-94.000.

Wald, Hy. Reusable closure device for cartons for gable tops. 4,646,961, 3-3-87, Cl. 229-45.00R.

Wald Manufacturing Co., Inc.: *See*—
McMurtrey, David K., 4,635,499, Cl. 74-551.100.
McMurtrey, David K., 4,662,645, Cl. 280-279.000.

Wald, Robert D., to Data Motion, Incorporated. Paper feed tractor with belt tensioning. 4,638,935, 1-27-87, Cl. 226-171.000.

Wald, Roland, to Sandoz Ltd. Phthalocyanine basic dyestuffs. 4,665,165, 5-12-87, Cl. 540-124.000.

Wald, Roland: *See*—
Moser, Helmut; Greve, Manfred; Pedrazzi, Reinhard; and Wald, Roland, 4,673,735, Cl. 534-606.000.

Wald, Roland J. E.: *See*—
Ekelund, Folke J. B.; Lilja, Per O.; Wald, Roland J. E.; and Stahl, Matts F., 4,695,413, Cl. 361-18.000.

Wald, William: *See*—
Zybko, Walter C.; Wald, William; and McClure, Thomas V., 4,680,209, Cl. 428-35.000.

Waldeck, Gerald, to Electrohome Limited. Wide frequency range switched band-oscillator. 4,680,555, 7-14-87, Cl. 331-108.00D.

Waldecker, Donald E.; and Wright, Charles G., to International Business Machines Corporation. Data processing system with a plurality of processors accessing a common bus to interleaved storage. 4,669,056, 5-26-87, Cl. 364-900.000.

Waldecker, Ralf: *See*—
Hofmann, Manfred; Muller, Hans; and Waldecker, Ralf, 4,681,316, Cl. 267-140.100.

Waldecker, Thomas J.: *See*—
Dewar, Robert; Salinger, Jeremy; Waldecker, Thomas J.; and Barlow, Neil E., 4,645,348, Cl. 356-376.000.

Waldemar Link GmbH & Co: *See*—
Keller, Arnold, 4,642,121, Cl. 623-18.000.

Waldemar Link GmbH & Co.: *See*—
Engelbrecht, Eckart; Nieder, Elmar; and Keller, Arnold, 4,645,507, Cl. 623-23.000.
Keller, Arnold, 4,657,549, Cl. 623-16.000.
Keller, Arnold, 4,705,032, Cl. 128-92.0YZ.
Link, Helmut D.; and Keller, Arnold, 4,641,749, Cl. 206-370.000.
Link, Helmut D., 4,645,506, Cl. 623-23.000.
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Walden, Frederick C.: *See*—
Pettit, Harold W., Jr.; Davis, Charles G.; and Walden, Frederick C., 4,696,855, Cl. 428-312.800.

Walden, Gwendolyn. Disposable patient pants. 4,651,353, 3-24-87, Cl. 2-227.000.

Walden, Michael F. M.: *See*—
Erben, Ralf; and Walden, Michael F. M., 4,678,065, Cl. 188-196.00D.

Waldenmeier, Gunter: *See*—
Hohlein, Gunter; Hempelmann, Wilhelm; Waldenmeier, Gunter; Koster, Rainer; Meyer, Fritz; and Pfeifer, Ulrich, 4,643,311, Cl. 206-508.000.

Waldenrath, Werner: *See*—
Serini, Volker; Schulte, Bernhard; Waldenrath, Werner; Fritag, Dieter; Hucks, Uwe; Wank, Joachim; and Weber, Hans-Leo, 4,654,411, Cl. 528-176.000.
Wank, Joachim; Waldenrath, Werner; Schmitz, Heinz; and Pakulat, Gunter, 4,707,396, Cl. 428-216.000.

Walder, Werner: *See*—
Lahmann, Ernst; Walder, Werner; and Burger, Friedhelm, 4,634,160, Cl. 292-336.300.

Waldes Truarc, Inc.: *See*—
Berliner, Wallace H., 4,667,399, Cl. 29-809.000.
Killian, Edmund F.; and Berliner, Wallace H., 4,692,079, Cl. 411-353.000.

Waldhutter, Rudolf: *See*—
von Bernus, Ludwig; Bogelein, Georg; and Waldhutter, Rudolf, 4,687,992, Cl. 324-232.000.

Waldie, Arthur H.; Gillum, Marvis N.; and Wilkes, James M., to United States of America, Agriculture. Fluidic permeability measurement bridge. 4,649,738, 3-17-87, Cl. 73-38.000.

Waldman, Herbert H. Single line telephone call forwarding device. 4,670,900, 6-2-87, Cl. 379-211.000.

Waldman, Joshua P.: *See*—
Grant, Robert W.; and Waldman, Joshua P., 4,699,298, Cl. 222-400.700.

Waldmann, Bernd: *See*—
Hildebrand, Reinhard; and Waldmann, Bernd, 4,656,880, Cl. 74-105.000.

Waldmann, Helmut: *See*—
Schalenbach, Rolf; and Waldmann, Helmut, 4,661,646, Cl. 568-857.000.
Stammann, Gunter; Grolig, Johann; and Waldmann, Helmut, 4,705,843, Cl. 528-212.000.
Stammann, Gunter; Kricsfalussy, Zoltan; Waldmann, Helmut; Schneider, Joachim; and Medem, Harald, 4,714,689, Cl. 502-54.000.

Waldmann, Karl: *See*—
Ramloch, Herbert; Seidel, Manfred; Lause, Joachim; and Waldmann, Karl, 4,658,052, Cl. 560-155.000.

Waldner, Kurt: Apparatus and method for forming die-cut articles from sheet material, 4,681,004, 7-21-87, Cl. 83-98.000.

Waldner, Kurt: Die apparatus having an electromagnetic drive, 4,703,644, 11-3-87, Cl. 72-430.000.

Waldo, Russell W.; and Miller, Cardell E., to Ideal Security Hardware Corporation: Method and apparatus for closing a door, 4,709,445, 12-1-87, Cl. 16-300.000.

Waldor, Matthew K.: *See*—
Steinman, Lawrence; Waldor, Matthew K.; Sriram, Subramanian; Herzenberg, Leonard A.; and Herzenberg, Leonore A., 4,695,459, Cl. 424-95.000.

Waldorf Corporation: *See*—
Lambert, Herbert L., 4,712,688, Cl. 206-602.000.
Roccaforte, Harry L., 4,688,677, Cl. 206-624.000.
Seiter, George M.; Klitzke, Loren J.; and Nelson, Iver L., 4,643,878, Cl. 422-101.000.

Waldorf, Lindsey E., to Technology Un, Ltd: Automotive heater and air conditioner and process therefor, 4,688,394, 8-25-87, Cl. 62-243.000.

Waldron, Brian L.: *See*—
Mailloux, Louis D.; and Waldron, Brian L., 4,661,859, Cl. 358-283.000.

Waldron, Gerald E.; and Wilson, Edward J., to Dynapert-HTC Corp: Vapor level control for vapor processing system, 4,692,114, 9-8-87, Cl. 432-198.000.

Waldron, Mark A.; and Leung, Tommy Y., to CTS Corporation: Multispeed, full duplex modem, 4,691,342, 9-1-87, Cl. 379-98.000.

Waldrop, Alexander A., III: *See*—
Ward, David C.; Langer, Peninna R.; and Waldrop, Alexander A., III, 4,711,955, Cl. 536-29.000.

Waldrum, John E., to Dow Chemical Company, The: Pesticide spraying device, 4,662,565, 5-5-87, Cl. 239-236.000.

Waldschmidt, William L., to Thermo King Corporation: Evaporator coil heat exchanger assembly, 4,716,275, 12-29-87, Cl. 219-201.000.

Waldschutz, Heinz: *See*—
Albrecht, Wilhelm; Wurz, Dieter; Peitsmeier, Karl; Waldschutz, Heinz; Ruckert, Walter; Kuhn, Klaus; and Patzelt, Helmut, 4,644,817, Cl. 74-552.000.

Walega, William, to International Shoe Machine Corporation: Heel molder flanger, 4,709,433, 12-1-87, Cl. 12-12.500.

Walen, Leander O.: *See*—
Tufte, Jerold W.; and Walen, Leander O., 4,646,553, Cl. 72-389.000.

Wales, C. Ernest; and Peterson, Mitchell F., to Geosource, Inc: Method and apparatus for seismic exploration using non-linear sweeps, 4,680,741, 7-14-87, Cl. 367-189.000.

Walfield, Alan M.; and Pollock, Thomas J., to Syntro Corporation: Methods and compositions for expression of BTI endotoxin, 4,652,628, 3-24-87, Cl. 530-324.000.

Walgenbach, Paul J., to American Cyanamid Company: Insecticidal compositions comprising a synergistic mixture of terbufos or phorate and a pyrethroid, 4,695,564, 9-22-87, Cl. 514-127.000.

Walinsky, Paul; Rosen, Arye; and Greenspon, Arnold J., to RCA Corporation: Method and apparatus for high frequency catheter ablation, 4,641,649, 2-10-87, Cl. 128-303.100.

Walinsky, Paul: *See*—
Rosen, Arye; and Walinsky, Paul, 4,643,186, Cl. 128-303.100.

Walinsky, Stanley W., to Pfizer Inc: Substantially homogeneous copolymers of acrylic or methacrylic acid and maleic acid, 4,710,537, 12-1-87, Cl. 524-549.000.

Walk, Bruce M.: *See*—
Livingston, David I.; Sucher, Daniel J.; and Walk, Bruce M., 4,714,993, Cl. 364-200.000.

Walk, Hansjorg; and Wagener, Heinze-Jurgen, to Keiper Recaro GmbH & Co: Hinge joint for the seats of motor vehicles and the like, 4,715,656, 12-29-87, Cl. 297-362.000.

Walk, Hansjorg: *See*—
Werner, Heinz; and Walk, Hansjorg, 4,708,392, Cl. 297-362.000.

Walk, Howard J., to Reed Mining Tools, Inc: Reversible roller stabilizer extensions for earth boring head, 4,697,652, 10-6-87, Cl. 175-325.000.

Walker, Adrian W.: *See*—
Humphreys, Robert W.; Walker, Adrian W.; Green, Robin J.; and Russell, Stephen W., 4,642,198, Cl. 252-94.000.

Walker, Alan H.: *See*—
Brull, Robert A.; Walker, Alan H.; and Moro, Joseph C., 4,655,625, Cl. 400-605.000.

Walker, Bryan J., to Granulite Limited: Building materials, 4,683,006, 7-28-87, Cl. 106-288.00R.

Walker, Budd H.: *See*—
Cahill, James W.; and Walker, Budd H., 4,703,933, Cl. 273-139.000.

Walker, Charles E.: *See*—
Kea, Sandra; Walker, Charles E.; and Kline, Eric, 4,683,299, Cl. 536-119.000.
Kea, Sandra; and Walker, Charles E., 4,710,567, Cl. 536-119.000.

Walker, Charles R. S.: *See*—
Kuhfus, Gerd; Walker, Charles R. S.; and Robinson, Anthony H. J., 4,636,591, Cl. 381-159.000.

Walker, Charles S., to Honeywell Inc: Replica driver transformer for inverter circuit, 4,642,749, 2-10-87, Cl. 363-56.000.

Walker, Charles S., to Honeywell Inc: Combined transformer and inductor, 4,689,592, 8-25-87, Cl. 336-83.000.

Walker, Charles S.; Atherton, Jay W.; and West, Gerald W., to Honeywell Inc: MOSFET inverter gate drive circuit, 4,689,731, 8-25-87, Cl. 363-24.000.

Walker, Charles S., to Honeywell, Inc: Inductive devices, 4,694,387, 9-15-87, Cl. 363-56.000.

Walker, Christopher J. J.: *See*—
Crossland, William A.; Walker, Christopher J. J.; and Davey, Anthony B., 4,701,029, Cl. 350-351.000.

Walker, Clarence O., to Texaco Inc: Method for controlling lost circulation of drilling fluids with water absorbent polymers, 4,635,726, 1-13-87, Cl. 166-294.000.

Walker, Clarence O., to Texaco Inc: Encapsulated water absorbent polymers as lost circulation additives for aqueous drilling fluids, 4,664,816, 5-12-87, Cl. 252-8.512.

Walker, Clarence O.: *See*—
Delhommer, Harold J.; and Walker, Clarence O., 4,633,950, Cl. 166-295.000.
Delhommer, Harold J.; and Walker, Clarence O., 4,704,213, Cl. 252-8.512.

Walker, Claud W: Pollution control through fuel treatment, 4,715,325, 12-29-87, Cl. 123-1.00A.

Walker, Clifford G: Sagnac phase detection passive laser accelerometer, 4,635,482, 1-13-87, Cl. 73-517.00R.

Walker, Clifford G.; and Tanton, George A., to United States of America, Army: Nondestructive noncontact device to characterize semiconductor material, 4,637,726, 1-20-87, Cl. 356-367.000.

Walker, Clifford R., to Gulf & Western Manufacturing Company: Workpiece feeding and conveying system, 4,666,031, 5-19-87, Cl. 198-450.000.

Walker, Darrel D.; and Ebra, Martha A: Nuclear waste solutions, 4,654,173, 3-31-87, Cl. 252-631.000.

Walker, David A.: *See*—
Burnett, William; Houghton, James R.; Walker, David A.; and Key, Larry, 4,696,512, Cl. 297-68.000.

Walker, David E.: *See*—
Hutter, Ernest; Pardini, John A.; and Walker, David E., 4,654,192, Cl. 376-336.000.

Walker, David G: Separation of hydrogen sulfide from gases by the use of cuprous aluminum tetrachloride as a reversible complexing reagent, 4,654,202, 3-31-87, Cl. 423-220.000.

Walker, David G: Monochlorobiphenylcuprous aluminum tetrachloride, 4,691,074, 9-1-87, Cl. 585-849.000.

Walker, David L., to Zenith Electronics Corporation: Method and apparatus for unscrambling sync-suppressed television signals, 4,712,237, 12-8-87, Cl. 380-15.000.

Walker, David L.: *See*—
Auld, Frederick B., Jr.; and Walker, David L., 4,703,354, Cl. 358-148.000.

Walker, David M.; Sliski, Alan P.; Harte, Kenneth J.; and Carrona, John J., to Control Data Corporation: Modular all-electrostatic electron-optical column and assembly of said columns into an array and method of manufacture, 4,661,709, 4-28-87, Cl. 250-396.00R.

Walker, David M.; and Sliski, Alan P., to Control Data Corporation: Impedance matched and thermally cooled deflection amplifiers for charged particle beam apparatus employing deflectors, 4,667,108, 5-19-87, Cl. 250-396.00R.

Walker, David M.: *See*—
Bacchetti, Lawrence F.; Walker, David M.; and Smith, Donald O., 4,665,315, Cl. 250-492.100.
Smith, Donald O.; Burgess, John R.; and Walker, David M., 4,661,203, Cl. 156-643.000.

Walker, David P., to Serac Limited: Clip fixing for retaining thin film, 4,662,038, 5-5-87, Cl. 24-460.000.

Walker, Derek W. R: Assembly for use in removing material from the ends of bars or the like workpieces, 4,634,322, 1-6-87, Cl. 409-138.000.

Walker, Don R.: *See*—
Harper, James G.; Bailey, Louis G.; McJohnson, Robert B.; Rajagopal, Ganesh; and Walker, Don R., 4,680,811, Cl. 455-617.000.

Walker, Don W.; and Rush, Lynn, to Hawkins, Billy J., Sr., a part interest: Pipefitters tape measure, 4,696,110, 9-29-87, Cl. 33-137.00R.

Walker, Donald E.: *See*—
Coombes, Robert L., Jr.; Owen, Merrill J.; Colwell, Terance C.; and Walker, Donald E., 4,714,535, Cl. 204-297.00W.

Walker, Donald G.: *See*—
Aburaki, Shimpei; Narita, Yukio; Okumura, Jun; Naito, Takayuki; and Walker, Donald G., 4,659,812, Cl. 540-222.000.
Brundidge, Steven P.; Brodfuehrer, Paul R.; Sapino, Chet, Jr.; Shih, Kun M.; and Walker, Donald G., 4,714,760, Cl. 540-222.000.

Walker, Donald R.: *See*—
Mitchell, Hal D.; and Walker, Donald R., 4,679,253, Cl. 2-2.000.
Mitchell, Hal D.; and Walker, Donald R., 4,680,814, Cl. 2-2.000.
Mitchell, Hal D.; and Walker, Donald R., 4,715,066, Cl. 2-2.000.

Walker, Edward: *See*—
Grant, Eric M.; and Walker, Edward, 4,647,492, Cl. 428-198.000.

Walker, Edward S., to General Electric Company: Detector for fuel assembly, 4,655,991, 4-7-87, Cl. 376-245.000.

Walker, Edward S.: *See—*
Kaiser, Bruce J.; Walker, Edward S.; Tunnell, George W.; and Masaitis, William, 4,701,621, Cl. 250-435.000.
Walker Enterprises, Inc.: *See—*
Walker, William J., 4,673,186, Cl. 273-399.000.
Walker, Francis H., to Stauffer Chemical Company. α-halo-Ω-haloalkylamides herbicidal antidotes. 4,650,516, 3-17-87, Cl. 71-100.000.
Walker, Francis H.: *See—*
Buren, Lawrence L.; James, Donald R.; Randolph, Barney J.; Teach, Eugene G.; Tilles, Harry; and Walker, Francis H., 4,695,314, Cl. 71-100.000.
Walker, Frederick J.; and LaMattina, John L., to Pfizer Inc. Hydroxy and alkoxy pyrimidines. 4,711,888, 12-8-87, Cl. 514-269.000.
Walker, Fritz: *See—*
Goller, Ernst; and Walker, Fritz, 4,700,553, Cl. 66-146.00R.
Goller, Ernst; Herman, Udo; Muller, Adam; and Walker, Fritz, 4,703,630, Cl. 66-64.000.
Walker, Gary M.: *See—*
Ghorbani, Ali; and Walker, Gary M., 4,702,712, Cl. 439-596.000.
Walker, George E., to Monsanto Company. Process and device for temporarily holding and releasing objects. 4,637,944, 1-20-87, Cl. 428-35.000.
Walker, George E., to Monsanto Company. Process and device for temporarily holding and releasing objects. 4,642,254, 2-10-87, Cl. 428-36.000.
Walker, Gordon N., to Ciba-Geigy Corporation. Certain β-oxo-α-carbamoylpyrrolepropionitriles. 4,644,010, 2-17-87, Cl. 514-423.000.
Walker, Graham C.: *See—*
Sinskey, Anthony J.; Walker, Graham C.; Higashio, Kanji; Rao, Eswara A.; Shatabruch, William G.; and Yoshihama, Makoto, 4,649,119, Cl. 435-317.000.
Walker, Grant W., to Essex Composite Wrap, Inc. Pipe wrapping machine. 4,688,374, 8-25-87, Cl. 53-587.000.
Walker, Harold L., to Nolte, Albert C., Jr., a part interest. Automatic variable speed transmission. 4,642,070, 2-10-87, Cl. 474-57.000.
Walker, Harold R.: *See—*
McKenna, William J.; Silvers, Kenneth W.; Nickerson, Rand B.; Welsh, Russell J.; Walker, Harold R.; Cullity, Joseph A.; and Stryzak, Bohdan, 4,658,290, Cl. 358-84.000.
Walker, Harrell L.: *See—*
Andersen, Robert N.; and Walker, Harrell L., 4,715,881, Cl. 71-79.000.
Walker, Heinz: *See—*
Forster, Alfred; Riss, Helmut; and Walker, Heinz, 4,649,527, Cl. 367-108.000.
Walker, Howard W., to Ethyl Corporation. Catalytic synthesis of olefins from paraffins. 4,670,621, 6-2-87, Cl. 585-656.000.
Walker, Hylton R., to Aserma Manufacturing a division of O.M.C. Aserma (Proprietary) Limited. Trigger operated barrel lock release. 4,662,097, 5-5-87, Cl. 42-44.000.
Walker, James A.: *See—*
Gabriel, Kaigham J.; Trimmer, William S. N.; and Walker, James A., 4,700,541, Cl. 60-528.000.
Walker, James D.: *See—*
Miller, John A.; and Walker, James D., 4,698,738, Cl. 363-65.000.
Walker, James H. Unitary wall-mounted sink. 4,674,139, 6-23-87, Cl. 4-643.000.
Walker, James L.; and Yannich, Marie E., to National Starch and Chemical Corporation. Ethylene vinyl acetate compositions for paper saturation. 4,659,595, 4-21-87, Cl. 427-391.000.
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Walles, Wilhelm E., to Dow Chemical Company, The. Opercel composition and method of making same. 4,647,498, 3-3-87, Cl. 428-288.000.

Walley, Gerald D. *See*—
Hook, Sidney J.; Tittler, Philip; and Walley, Gerald D., 4,646,202, Cl. 361-382.000.

Wallgren, Linus E.; Fridman, Robert; and Siegel, William J., to Pace, Incorporated. Apparatus for replacement of through-hole mounted PCB components. 4,659,002, 4-21-87, Cl. 228-8.000.

Wallgren, Linus E., to Pace, Incorporated. Curved tip for solder extractor. 4,666,076, 5-19-87, Cl. 228-20.000.

Wallgren, Linus E., to Pace Incorporated. Tip for removing components from a substrate. 4,697,729, 10-6-87, Cl. 228-20.000.

Wallgren, Matti; and Tynkkynen, Pertti. Cloth spreading apparatus with cutter. 4,641,824, 2-10-87, Cl. 270-31.000.

Wallhausser, Karl-Heinz. *See*—
Hammer, Klaus-Dieter; Siebrecht, Manfred; Wallhausser, Karl-Heinz; and Winter, Hermann, 4,662,403, Cl. 138-118.100.

Wallich, Manfred, to Tetra Pak Developpement S.A. Apparatus for adding a first granular material to a second granular material. 4,653,929, 3-31-87, Cl. 366-152.000.

Wallick, William P.; and Hoffman, Gary J., to Wallick, William P. Food coring device. 4,640,187, 2-3-87, Cl. 99-538.000.

Wallin, Gary J. *See*—
Land, Larry D.; and Wallin, Gary J., 4,669,753, Cl. 283-1.00A.

Wallin, Kay, to Sprinter System AB. Method and apparatus for rejecting too short and/or too low products, particularly fish fingers. 4,651,881, 3-24-87, Cl. 209-617.000.

Wallin, Kay, to Sprinter System AB. Arrangement in a sealing machine. 4,672,792, 6-16-87, Cl. 53-374.000.

Wallin, Kenneth M. Safety switch assemblage. 4,675,479, 6-23-87, Cl. 200-51.110.

Wallin, P. O. Thomas; Warell, Bengt H.; Svensson, A. Pedar; Lundstrom, Kurt A.; and Johansson, Lars A. Arrangement for a desk comprising a desk-top which can be raised and lowered. 4,711,184, 12-8-87, Cl. 108-144.000.

Wallin, Per Olov T.; Warell, Bengt H.; Svensson, Ake P.; Lundstrom, Kurt A.; and Johansson, Lars A. Arrangement for a switchboard desk. 4,714,025, 12-22-87, Cl. 108-20.000.

Walling, James D. *See*—
Ng, Yee Seung; Contois, Lawrence E.; Mitchell, John D.; and Walling, James D., 4,686,163, Cl. 430-47.000.
Ville, Ivan B.; Walling, James D.; and Yousey, Kevin E., 4,638,759, Cl. 118-657.000.

Walling, Jorg-Hein; Cornibert, Jacques; Baxter, Gordon D.; Bottin, Marie-Francoise; Axiuk, Oleg; and Reed, Phillip J., to Northern Telecom Limited. Telecommunications cable. 4,710,594, 12-1-87, Cl. 174-120.0SR.

Walling, Richard C. *See*—
Kaucic, Robert A.; and Walling, Richard C., 4,669,411, Cl. 114-230.000.

Walling, William T. *See*—
McMullen, Warren H.; and Walling, William T., 4,664,763, Cl. 204-146.000.

Wallingford Barbell Company. *See*—
Owens, Brian T.; and Corona, Fredrick W., 4,637,606, Cl. 272-134.000.

Wallis, Bernard J. Die clamp. 4,665,733, 5-19-87, Cl. 72-481.000.

Wallis, Bruce. Method for the controlled drying of materials. 4,633,593, 1-6-87, Cl. 34-26.000.

Wallis, Kurt; Dangelmaier, Roland; Betz, Ansgar; and Schmid, Heinrich, to Zahnradfabrik Friedrichshafen AG. Process for the manufacture of a rack. 4,646,554, 3-3-87, Cl. 72-406.000.

Wallis, Marvin E. Egg carton with overwrap. 4,699,311, 10-13-87, Cl. 229-2.5EC.

Wallis, Robert H.; and Pratt, William K., to Compression Labs, Inc. Low bandwidth video teleconferencing system and method. 4,710,813, 12-1-87, Cl. 358-136.000.

Wallis, Roger: *See*—
Neu, Max G.; Gough, Michael J.; Ashton, Michael C.; and Wallis, Roger, 4,665,966, Cl. 164-137.000.

Wallisch, Heinz; Felcht, Uth H.; and Kostrzewa, Michael, to Hoechst Aktiengesellschaft. Process for purifying aqueous distillation residues during the treatment of liquids in the preparation of cellulose ethers. 4,672,113, 6-9-87, Cl. 536-85.000.

Wallmander, Bo R., to Kungalvsgruppen Areng, Hjerpe, Wallmander AB. System for the visualization of the movements of marine vessels by television display. 4,700,306, 10-13-87, Cl. 364-449.000.

Wallmark, Bjorn: *See*—
Brandstrom, Arne E.; Lindberg, Per L.; and Wallmark, Bjorn, 4,636,499, Cl. 514-222.000.

Wallmark, Bjorn M. G.: *See*—
Ankner, Kjell F.; Brandstrom, Arne E.; Lindberg, Per L.; Nordberg, Mats P.; and Wallmark, Bjorn M. G., 4,689,331, Cl. 514-338.000.

Wallner, Felix; Krier, Adam; Lugscheider, Walter; Uckert, Gotthard; and Fremann, Paul, to Voest-Alpine Aktiengesellschaft. Method for processing a heavy-metal-containing residue from the chemical industry. 4,651,656, 3-24-87, Cl. 110-346.000.

Wallner, Felix: *See*—
Angerer, Reinhold; and Wallner, Felix, 4,635,832, Cl. 222-590.000.

Wallner, Josef, to Elastogran Maschinenbau GmbH. Mixing head for mixing two or more plastics components which react to form foam, in particular polyurethane. 4,702,890, 10-27-87, Cl. 422-133.000.

Wallo, Andrea M.: *See*—
Boyle, William J., Jr.; Mares, Frank; and Wallo, Andrea M., 4,661,615, Cl. 558-363.000.

Wallover, Edwin M., III. Prefabricated building panel and method of making the same. 4,642,960, 2-17-87, Cl. 52-390.000.

Wallow, Peter; and Bisping, Bernhard, to Rheinmetall GmbH. Armor-piercing inertial projectile. 4,671,180, 6-9-87, Cl. 102-517.000.

Wallow, Peter; Gersbach, Klaus; Simon, Walter; Bisping, Bernhard; Montier, Patrick; Moreau, Pierre A.; and Sauvestre, Jean-Claude, to Rheinmetall GmbH, and Etat Francais represente par le Delegue General pour l'armement. Sabot arrangement for a sub-caliber projectile. 4,702,172, 10-27-87, Cl. 102-521.000.

Wallow, Peter; and Bisping, Bernhard, to Rheinmetall GmbH. Armor breaking projectile. 4,706,569, 11-17-87, Cl. 102-518.000.

Wallow, Peter: *See*—
Bocker, Jurgen; Luther, Hans W.; Wallow, Peter; and Fritsch, Horst, 4,697,525, Cl. 102-518.000.
Boecker, Juergen; Luther, Hans W.; Wallow, Peter; and Fritsch, Horst, 4,635,556, Cl. 102-518.000.
Synofzik, Reinhard; Schwenzer, Michael; and Wallow, Peter, 4,671,179, Cl. 102-430.000.

Wallquist, Olof: *See*—
Pfenninger, Johannes; Iqbal, Abul; Rochat, Alain C.; and Wallquist, Olof, 4,659,775, Cl. 524-92.000.

Wallrafen, Werner, to VDO Adolf Schindling AG. Electronic angular position transmitter with toroidal core and rotatable magnet. 4,646,011, 2-24-87, Cl. 324-208.000.

Wallrafen, Werner, to VDO Adolf Schindling AG. Circuit for regulating the torque of ratio meters. 4,658,211, 4-14-87, Cl. 324-140.00D.

Wallroth, Carl F.: *See*—
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Wallroth, Carl-Friedrich: *See*—
Altner, Ulrich; Falb, Wolfgang; Ryschka, Martin; and Wallroth, Carl-Friedrich, 4,715,370, Cl. 128-204.130.
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Langley, Robert; Stewart, John D.; and Walls, Arthur S., 4,694,078, Cl. 540-141.000.

Walls, Gary C. Self-seating valve with compressive release. 4,707,279, 11-17-87, Cl. 251-339.000.

Walls, Henry M.; and Sayers, George M., Jr., to TSCO Corporation. Cooking and whistling knob therefor. 4,690,095, 9-1-87, Cl. 116-67.00R.

Walls, John E.; Tellechea, Carlos; and Dhillon, Major S., to American Hoechst Corporation. Radiation-polymerizable composition and element containing a photopolymer composition. 4,652,604, 3-24-87, Cl. 522-63.000.

Walls, John E.; Dhillon, Major S.; and Koletar, Gabor I., to American Hoechst Corporation. Resin. 4,665,124, 5-12-87, Cl. 525-61.000.

Walls, John E.; Dhillon, Major S.; and Koletar, Gabor I., to American Hoechst Corporation. Resin. 4,670,507, 6-2-87, Cl. 525-61.000.

Walls, John E.; Tellechea, Carlos; and Dhillon, Major S., to Hoechst Celanese Corporation. Radiation-polymerizable composition and element containing a photopolymer composition. 4,707,437, 11-17-87, Cl. 430-523.000.

Walls, Lester L., Jr.: *See*—
Weisner, Kent A.; and Walls, Lester L., Jr., 4,649,680, Cl. 52-200.000.

Wallsom, Richard E.: *See*—
Bush, Harold G.; Mikulas, Martin M., Jr.; Wallsom, Richard E.; and Jensen, J. Kermit, 4,685,535, Cl. 182-63.000.

Walisten, Hans I., to Shepherd Patents S.A. Prosthesis comprising an expansible or contractile tubular body. 4,655,771, 4-7-87, Cl. 623-1.000.

Wallter, Gote; and Lindstam, Goran, to AB Akerlund & Rausing. Packaging method and a device therefore. 4,676,049, 6-30-87, Cl. 53-433.000.

Wally, Joseph H.; and Wilson, Samuel E. System and method for projecting multiple images directly onto printing plates. 4,641,958, 2-10-87, Cl. 355-71.000.

Walnut Industries, Inc.: *See*—
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Walpat AG: *See*—
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Walraevens, Rene; and Cousne, Jean-Marc, to Interox(Societe Anonyme). Organic quaternary ammonium compounds and process for the preparation thereof. 4,675,131, 6-23-87, Cl. 260-404.000.

Walse, Alan S.: *See*—
Regnier, Kent E.; Hoover, Thomas C.; and Walse, Alan S., 4,713,013, Cl. 439-62.000.
Stipanuk, John M.; Walse, Alan S.; and Regnier, Kent E., 4,665,614, Cl. 29-884.000.

Walser, Felix, to Prazisions-Werkzeuge AG. Electrode arrangement for a coating installation. 4,637,339, 1-20-87, Cl. 118-622.000.

Walser, Mackenzie; Sapir, Daniel G.; and Stewart, Peter M., to Johns Hopkins University, The. Method of inhibiting muscle protein degradation. 4,677,121, 6-30-87, Cl. 514-561.000.

Walsh, David A., to A. H. Robins Company, Incorporated. 3-methylthio-4-(5-, 6-, or 7-)phenylindolindolin-2-ones. 4,670,566, 6-2-87, Cl. 548-485.000.

Walsh, David A.: *See*—
Reimels, Harry G.; Walsh, David A.; and Arsenault, Michael J., 4,705,500, Cl. 604-35.000.

Walsh, David J.; Lougheed, William M.; Gentili, Fred; and Fazl, Mahmood, to Idea Research Investment Fund, Inc. Anastomosis devices and kits. 4,657,019, 4-14-87, Cl. 128-334.00C.

Walsh, Edward; and Woitto, David W., to Hewlett-Packard Company. Two point attachment with single point clamping for connecting the arm stack to the actuator member in a disc memory drive. 4,716,478, 12-29-87, Cl. 360-104.000.

Walsh, Edward, to Hewlett-Packard Company. Head actuator limit stop assembly for a disk memory drive. 4,716,482, 12-29-87, Cl. 360-106.000.

Walsh, Edward, to Hewlett-Packard Company. Three piece head actuator arm assembly for disc drive. 4,716,483, 12-29-87, Cl. 360-106.000.

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Walsh, Edward J., to Westinghouse Electric Corp. Removing residual PCB S from transformers. 4,699,667, 10-13-87, Cl. 134-12.000.

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Walsh, Francis C.: *See*—
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Walsh, George A.: *See*—
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Allebest, Edward F.; Hansen, Parley E.; Walsh, George A.; and Maguire, Walter R., 4,701,896, Cl. 369-32.000.

Walsh, James R., to International Business Machines Corp. Adjunct machine. 4,660,144, 4-21-87, Cl. 364-200.000.

Walsh, John J., to Dacomed Corporation. Speaking endotracheal tube. 4,633,864, 1-6-87, Cl. 128-207.150.

Walsh, John S.: *See*—
Miwa, Gerald T.; Wang, Wen-Jen R.; and Walsh, John S., 4,675,337, Cl. 514-398.000.
Miwa, Gerald T.; and Walsh, John S., 4,678,799, Cl. 514-398.000.

Walsh, John V., to VSM Associates, Inc. Method and system for the removal of oxides of nitrogen and sulfur from combustion processes. 4,713,152, 12-15-87, Cl. 204-130.000.

Walsh, Joseph C., to Adolph Coors Company. Package interlock and alignment system. 4,703,848, 11-3-87, Cl. 206-171.000.

Walsh, Kimberly: *See*—
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Walsh, Leo F.; and Mulso, Frank A., to Chrysler Motors Corporation. Movable molding for a vehicle. 4,671,551, 6-9-87, Cl. 293-126.000.

Walsh, Michael J.; Anders, John B.; and Hefner, Jerry N., to United States of America, National Aeronautics and Space Administration. Combined riblet and lebu drag reduction system. 4,706,910, 11-17-87, Cl. 244-130.000.

Walsh, Myles A., III; and Morris, R. Scott, to Cape Cod Research, Inc. Electrolytic reactor and method for treating fluids. 4,690,741, 9-1-87, Cl. 204-149.000.

Walsh, Patrick M., to AT&T Bell Laboratories. Access-arbitration scheme. 4,641,266, 2-3-87, Cl. 364-200.000.

Walsh, Paul L., to Corning Glass Works. Temperature control system with simplified controller and power supply. 4,644,138, 2-17-87, Cl. 219-501.000.

Walsh, Paul L.: *See*—
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Walsh, Peter J., to Duro-Test Corporation. Selective color filter. 4,645,290, 2-24-87, Cl. 350-1.700.

Walsh, Peter J., to Duro-Test Corporation. Incandescent lamp with extended filament lifetime. 4,703,220, 10-27-87, Cl. 313-112.000.

Walsh, Peter J., to Duro-Test Corporation. Energy-efficient lamp. 4,707,632, 11-17-87, Cl. 313-112.000.

Walsh, Phillip D., to General Motors Corporation. Periscopic vehicle lamp lens and lens arrangement including same. 4,654,761, 3-31-87, Cl. 362-80.000.
Walsh, Reed H., to Lubrizol Corporation, The. Sulfurized compositions and lubricants containing them. 4,664,825, 5-12-87, Cl. 252-45.000.
Walsh, Reed H.: *See*—
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Walsh, Richard F.; Franks, James A.; and Martin, Richard R., to Art Systems, Inc. Fuel dispensing and vehicle maintenance system with on-board computer. 4,658,371, 4-14-87, Cl. 364-550.000.
Walsh, Shawn T.: *See*—
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Walsh, William A. Batting practice assembly. 4,674,744, 6-23-87, Cl. 273-26.00E.
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Walsh, William H. Method and apparatus for assembling an automatic and disposable pencil. 4,635,338, 1-13-87, Cl. 29-436.000.
Walsh, William H., to Gillette Company, The. Method of manufacturing and delivering coil springs. 4,638,653, 1-27-87, Cl. 72-129.000.
Walsh, William J., to Thermolyne Holdings Inc. Failure protection in temperature control. 4,677,282, 6-30-87, Cl. 219-508.000.
Walsh, William J.: *See*—
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Waltec Inc.: *See*—
Buchner, Daniel C.; and Hale, Alan M., 4,662,399, Cl. 137-625.170.
Waltemyer, Ronald G.; and Brown, Royce L., to Cooper Industries, Inc. Chain forming method and apparatus. 4,682,467, 7-28-87, Cl. 59-30.000.
Waltenspuhl, Rolf, to Stopinc Aktiengesellschaft. Discharge nozzle assembly and methods of formation and operation thereof. 4,708,327, 11-24-87, Cl. 266-220.000.
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Walter, Alfred: *See*—
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Walter, Bert: *See*—
Greenquist, Alfred C.; Li, Thomas M.; Rupchock, Patricia A.; Tyhach, Richard J.; and Walter, Bert, 4,668,619, Cl. 435-7.000.
Walter C. McCrone Associates, Inc.: *See*—
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Walter Electrical Manufacturing Company: *See*—
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Walter, Ernest J. Removable latch mechanism. 4,648,637, 3-10-87, Cl. 292-128.000.
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Walter, Gerard S.; and Hagan, John, to Walter Electrical Manufacturing Company. Electrical connector blocks. 4,640,571, 2-3-87, Cl. 339-242.000.
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Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,463, Cl. 514-464.000.
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,671,959, Cl. 424-195.100.
Walter, Herbert, to Protoned B.V. Supporting device having infinitely adjustable jibs. 4,708,309, 11-24-87, Cl. 248-218.400.
Walter, Herman K. Incineration of combustible waste materials. 4,658,736, 4-21-87, Cl. 110-346.000.
Walter, James M.: *See*—
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Hurst, Robert N., Jr.; and Walter, James M., 4,654,714, Cl. 358-213.000.
Walter, Jean-Jacques, Petit, Daniel; Marzocca, Joseph; Amalric, Jean; and Bernard, Georges, to Gerin, Merlin. Arc extinction device for gas insulation electrical switchgear. 4,697,055, 9-29-87, Cl. 200.148.00B.
Walter, John, to Continental Can Company, Inc. Method and apparatus for making a sealing lip for lid on thermoformed container. 4,659,405, 4-21-87, Cl. 156-69.000.
Walter, John F., to Crosby Valve & Gage Company. Flat sided ball valve. 4,635,675, 1-13-87, Cl. 137-315.000.
Walter, Josef, to Mero-Raumstruktur GmbH & Co. Device for sealed attachment of flexible cover strips for single- or double-curve roof surfaces of buildings. 4,642,962, 2-17-87, Cl. 52-460.000.
Walter, Juergen: *See*—
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Walter, Jurgen; Falz, Ulrich; and Lunke, Manfred, to Hackforth G.m.b.H. & Co. KG. Resilient shaft coupling. 4,708,514, 11-24-87, Cl. 403-372.000.
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Walter, Keith D.: *See*—
Nelson, Gary A.; Godding, Patrick N.; Schumaker, Richard E.; Walter, Keith D.; Marrone, Edward S.; Gates, Stillman E.; Rigsbee, Everett O., III; and Teener, Michael D., 4,679,191, Cl. 370-84.000.
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Walter, Lee: *See*—
Ovshinsky, Stanford R.; Allred, David D.; Walter, Lee; and Hudgens, Stephen J., 4,664,937, Cl. 427-39.000.
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Walter, Lothar; and Reith, Walter, to SKF Kugellagerfabriken GmbH. Method for the production of a guide rail. 4,635,331, 1-13-87, Cl. 29-148.40R.
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Walter, Richard T.: *See*—
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Walter, Robert: *See*—
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Walter Rose GmbH & Co. KG: *See*—
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Ward, Stephen A., to Proconics International, Inc. Timing signal generator. 4,700,321, 10-13-87, Cl. 364-569.000.
Ward, Stephen W., to Docutel/Olivetti Corporation. ATM task scheduling system for simultaneous peripheral device transactions processing. 4,636,947, 1-13-87, Cl. 364-200.000.
Ward, Steven M.; *See*—
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Ward, Thomas A.; Petracca, Victor G.; and Figore, Timothy, to PPG Industries, Inc. Method of providing structural support for compositions. 4,696,864, 9-29-87, Cl. 428-413.000.
Ward, Thomas A.; *See*—
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Ward, Thomas F.; *See*—
Harmon, Charles H.; Ward, Thomas F.; and Zimmermann, Robert W., 4,696,402, Cl. 206-602.000.
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Ward, Thomas H.; Costanzo, Phillip A.; Pietrasz, Vincent; and Soeder, Edmund J., to Union Carbide Corporation. Method of forming a getter assembly. 4,710,344, 12-1-87, Cl. 419-8.000.
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Ward, William H., Jr., to Dresser Industries, Inc. Reactive position detector for electromagnetic vibrators. 4,663,574, 5-5-87, Cl. 318-128.000.
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Ward, William W., to Southern Case, Inc. Drawer divider system. 4,705,168, 11-10-87, Cl. 206-373.000.
Wardell, Myron H., Jr., to RCA Corporation. Electron tube base. 4,674,821, 6-23-87, Cl. 439-618.000.
Warden, Hans-Erik, to Siemens Aktiengesellschaft. X-ray film holder and method of operating same for optional fluoroscopic or radiographic examination of a patient. 4,712,227, 12-8-87, Cl. 78-173.000.
Warden, Roland R. Portable golf ball retriever. 4,645,254, 2-24-87, Cl. 294-19.200.
Wardenaar, Hendrik C.; and Kuppens, Bernardus J., to U.S. Philips Corporation. Method of and device for placing chip-type electrical and/or electronic components on a substrate. 4,644,642, 2-24-87, Cl. 29-834.000.
Warder, Philip C., to Motorola, Inc. Coupler with coupledline used to cancel finite directivity. 4,644,260, 2-17-87, Cl. 324-58.0B.
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Wardlaw, Stephen C. Method and apparatus for measuring blood constituent counts. 4,683,579, 7-28-87, Cl. 377-11.000.
Wardlaw, Stephen C.; Levine, Robert A.; Rodriguez, Rodolfo R.; and Loken, Michael R., to Becton Dickinson and Co., Inc. Method for increasing agglutination of groups of cells to produce improved cell layer interface in centrifuged blood sample using antibodies. 4,695,553, 9-22-87, Cl. 436-177.000.
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Wardle, John L.: *See*—
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Wardley, Michael T.; and Shirley-Fisher, David N., to NL Petroleum Products Limited. Cutter assemblies for rotary drill bits. 4,705,122, 11-10-87, Cl. 175-329.000.

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Ford, Norman C., Jr.; and Ware, Bennie R., 4,648,715, Cl. 356-344.000.

Ware, Charles H.; and Rose, Leslie C., to WorldEnergy Systems, Inc. Recovery of oil by in-situ combustion followed by in-situ hydrogenation. 4,691,771, 9-8-87, Cl. 166-245.000.

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Ware, Paul N. Personal universal identity card system for failsafe interactive financial transactions. 4,707,592, 11-17-87, Cl. 235-379.000.

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Ware, William B.: *See*—
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Wareham, Richard A.; and Buchtel, Dean H., to Hoover Company, The. Cord dump and bag tensioning cap. 4,707,169, 11-17-87, Cl. 55-357.000.

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Wareham, William, to Dynisco, Inc. Pressure transducer. 4,680,972, 7-21-87, Cl. 73-730.000.

Wareham, William, to Dynisco, Inc. Pressure transducer. 4,702,113, 10-27-87, Cl. 73-706.000.

Wareham, William, to Dynisco, Inc. Pressure transducer. 4,712,430, 12-15-87, Cl. 73-706.000.

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Warfield, Debra S. S.: *See*—
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Warga, Johann: *See*—
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Wargo, Robert A., to RCA Corporation. Magnitude independent hanging dot detector. 4,682,213, 7-21-87, Cl. 358-31.000.

Wargo, Robert A.; Harwood, Leopold A.; Pritchard, Dalton H.; and Chartier, Michael S., to RCA Corporation. Motion adaptive television signal processing system. 4,716,462, 12-29-87, Cl. 358-166.000.

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Warheit, William A. Auto-grip pliers. 4,662,252, 5-5-87, Cl. 81-341.000.

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Warlop, Stephen M. Antistatic vacuum cleaner and method. 4,697,300, 10-6-87, Cl. 15-327.00R.

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Warmuth, Ivan J.; and Safreed, Carl K., Jr., to Goodyear Tire & Rubber Company, The. Airspring and a method for making airspring flexible members. 4,673,168, 6-16-87, Cl. 267-64.270.

Warmuth, Ivan J., II, to Goodyear Tire & Rubber Company. Side load compensating air suspension. 4,688,774, 8-25-87, Cl. 267-64.210.

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Tahata, Masahiro; and Washizu, Hirokazu, 4,648,811, Cl. 417-410.000.

Washizu, Shoichi; Morijiri, Takeshi; Kogure, Kazuo; and Arimitsu, Satoshi, to Fuji Heavy Industries Ltd.; and Nippon Air Brake Co., Ltd. Brake control apparatus for a vehicle. 4,679,668, 7-14-87, Cl. 188-353.000.

Washizuka, Isamu, to Sharp Kabushiki Kaisha. Portable audio-visual electronic apparatus. 4,639,225, 1-27-87, Cl. 434-308.000.

Washizuka, Isamu, to Sharp Kabushiki Kaisha. Electronic translator with means for selecting words to be translated. 4,648,070, 3-3-87, Cl. 364-900.000.

Washizuka, Isamu; and Oda, Koichi, to Sharp Kabushiki Kaisha. Electronic function calculator with improved functional command entry. 4,651,294, 3-17-87, Cl. 364-709.000.

Washizuka, Isamu; Morino, Masuaki; and Mashiba, Tamaki, to Sharp Kabushiki Kaisha. Liquid crystal display with chip projecting above and below flexible film. 4,655,551, 4-7-87, Cl. 350-334.000.

Washizuka, Isamu; and Kimugawa, Kiyoshi, to Sharp Kabushiki Kaisha. Key input device. 4,692,740, 9-8-87, Cl. 340-365.00R.

Washizuka, Isamu; Nishimura, Kosuke; and Saiji, Mitsuhiro, to Sharp Kabushiki Kaisha. Audio output device with speech synthesis technique. 4,701,862, 10-20-87, Cl. 364-513.500.

Washizuka, Syoichi; Watanabe, Masayuki; Yashiro, Sadao; and Nakanishi, Masae, to Kabushiki Kaisha Toshiba. Apparatus for manufacturing compound semiconductor single crystal. 4,686,091, 8-11-87, Cl. 422-249.000.

Washkewicz, Donald E.; and Belofsky, Harold, to Parker Hannifin Corporation. Low volumetric expansion hose. 4,699,178, 10-13-87, Cl. 138-125.000.

Washko, Stephen D.: *See*—
Aggen, George; Borneman, Paul R.; and Washko, Stephen D., 4,661,169, Cl. 148-2.000.

Washtronics, Inc.: *See*—
Harris, Larry W., 4,651,925, Cl. 239-239.000.

Washu Kirai Kogyo Kabushiki Kaisha: *See*—
Tsuji, Shinjiro, 4,670,287, Cl. 427-3.000.

Wasko, Andrew J. Hand implement support apparatus. 4,684,559, 8-4-87, Cl. 428-100.000.

Wasko, George J. Rotary converter having dual-winding rotor. 4,707,629, 11-17-87, Cl. 310-129.000.

Wasley, Bernard. Cap for a carbonated beverage bottle. 4,640,426, 2-3-87, Cl. 215-228.000.

Waslo, Stephen: *See*—
Howell, John L.; McGreal, Joseph E., Jr.; Nemeth, Edward J.; Waslo, Stephen; and Feinman, Jerome, 4,686,090, Cl. 423-244.000.

Wasmoen, Terri L.: *See*—
Gleich, Gerald J.; Wasmoen, Terri L.; Coulam, Carolyn B.; and Coulam, Carolyn B., 4,710,475, Cl. 436-86.000.

Wason, Cameron B., to Texas Instruments Incorporated. Seismic vibrator source having improved phase detector. 4,654,836, 3-31-87, Cl. 367-190.000.

Wason, Thomas D., to Cain Encoder Co. Angular position detector. 4,704,690, 11-3-87, Cl. 364-484.000.

Wason, Thomas D., to Cain Encoder Co. Angular position detector. 4,710,889, 12-1-87, Cl. 364-571.000.

Wass, Anthony C. L., to Riker Laboratories, Inc. Inhalation activatable dispensers. 4,664,107, 5-12-87, Cl. 128-200.230.

Wassel, William W.: *See*—
Smith, John R.; Kenny, Thomas J.; Graham, Kingsley F.; Neuner, James A.; Bauman, Douglas A.; Thompson, Timothy F.; Wassel, William W.; Rao, Dhulipala M.; and Theriault, David G., 4,642,636, Cl. 340-870.040.

Wassell, Edward T. Picture wall hanging assembly. 4,712,761, 12-15-87, Cl. 248-475.100.

Wassell, Mark E.; and Mosimann, John G., to Terry Corporation. Bladed rotor assembly, and method of forming same. 4,684,326, 8-4-87, Cl. 416-215.000.

Wassenaar, Roelof F.: *See*—
Seevinck, Evert; Wassenaar, Roelof F.; and Holle, Eerke, 4,682,098, Cl. 323-315.000.

Wassenhove, Denis V.: *See*—
Archer, Joel; Wassenhove, Denis V.; Pithouse, Kenneth B.; Buck, Leslie J.; Molyneux, Jeffrey P.; and Bradshaw, Peter S., 4,709,948, Cl. 285-381.000.

Wassenhoven, Heinz-Georg, to W. Schlafhorst & Co. Open-end rotor spinning machine. 4,660,374, 4-28-87, Cl. 57-407.000.

Wassenhoven, Heinz-Georg, to W. Schlafhorst & Co. Spinning device for producing a twisted thread. 4,689,946, 9-1-87, Cl. 57-301.000.

Wassenhoven, Heinz-Georg: *See*—
Raasch, Hans; and Wassenhoven, Heinz-Georg, 4,641,494, Cl. 57-401.000.
Raasch, Hans; and Wassenhoven, Heinz-Georg, 4,663,928, Cl. 57-416.000.

Wasserlein, Henry G., to Amp Incorporated. Electrical connector apparatus. 4,695,110, 9-22-87, Cl. 439-289.000.

Wasserman, Albert, to Kangaroos U.S.A., Inc. Removable indicia for footwear, particularly an athletic shoe. 4,697,362, 10-6-87, Cl. 36-136.000.

Wasserman, Allan, to Minnesota Mining and Manufacturing Company. Retroreflective fiber and method of making same. 4,697,407, 10-6-87, Cl. 57-238.000.

Wasserman, Gail F.: *See*—
Dingerdissen, John J.; Mehta, Rajanikant; Nisbet, Louis J.; Sherer, Marcia C.; and Wasserman, Gail F., 4,694,069, Cl. 530-317.00.
Sitrin, Robert D.; Snader, Kenneth M.; and Wasserman, Gail F., 4,667,024, Cl. 536-16.900.

Wasserstrom, Henry; and Kennedy, Richard T., to Coca-Cola Company, The. Beverage dispenser valve assembly system for use with pulpy citrus concentrate. 4,684,039, 8-4-87, Cl. 222-129.100.

Wassick, Thomas A.: *See*—
Donelon, John J.; Tomkiewicz, Yaffa; Wassick, Thomas A.; and Yeh, James T., 4,684,437, Cl. 156-643.000.

Wassilieff, Alexander, to Allflex International Limited. Ear tag, 4,653,208, 3-31-87, Cl. 40-301.000.

Wassilieff, Victor. Apertured closure device with depressible dot portion. 4,691,836, 9-8-87, Cl. 215-298.000.

Wassink, Derk J. C.: *See*—
Van Deursen, Theodorus H. M.; and Wassink, Derk J. C., 4,641,367, Cl. 455-161.000.

Wassmer, Peter J.: *See*—
Kiser, David G.; Spaulding, Donald M.; and Wassmer, Peter J., 4,641,876, Cl. 294-86.400.

Wassmuth, Georg: *See*—
Hambrecht, Juergen; Schmitt, Burghard; Swoboda, Johann; Wassmuth, Georg; Bernhard, Claus; and Stephan, Rudolf, 4,634,758, Cl. 525-85.000.

Wasson, Michael R.: *See*—
McDonald, William J.; Pittard, Gerard T.; Maurer, William C.; Wasson, Michael R.; and Herben, William C., 4,694,913, Cl. 175-61.000.

Wassouf, Christo M.: *See*—
Coffey, Ronald J.; and Wassouf, Christo M., 4,689,601, Cl. 338-214.000.
Coffey, Ronald J.; and Wassouf, Christo M., 4,700,171, Cl. 338-214.000.
Coffey, Ronald J.; and Wassouf, Christo M., 4,704,596, Cl. 338-214.000.

Wassum, Raymond E., to Antenna Incorporated - Div. of Celwave. Antenna particularly suited for use with a mobile communication system. 4,694,301, 9-15-87, Cl. 343-720.000.

Waste Recovery, Inc.: *See*—
Rouse, Michael W.; Thelen, Robert L.; and Morison, John, 4,714,201, Cl. 241-24.000.

Waste Resource Associates, Inc.: *See*—
Rakoczynski, Randolph W.; Odojewski, Stephen S.; and Rolfe, John L., 4,696,599, Cl. 405-129.000.

Wastechem Corporation: *See*—
Klein, William J., 4,648,989, Cl. 252-626.000.

Wasylyniuk, Ralph E. Chemical filter for use in a cab ventilation system. 4,684,381, 8-4-87, Cl. 55-316.000.

Watabe, Akira; Tomobe, Norio; and Kobayashi, Hideo, to Honda Giken Kogyo Kabushiki Kaisha. Air intake side secondary air supply system for an internal combustion engine. 4,660,533, 4-28-87, Cl. 123-588.000.

Watabe, Akira: *See*—
Suzuki, Norio; Watabe, Akira; and Yamashita, Kazunari, 4,677,959, Cl. 123-587.000.

Watabe, Masaya; and Abe, Shuichi, to Hitachi, Ltd. Data processing apparatus for processing operand store conflict. 4,638,429, 1-20-87, Cl. 364-200.000.

Watabe, Masayuki: *See*—
Kachi, Kenjiro; Onda, Hideaki; Hayashi, Yukichi; Yoshihara, Kenzo; Watabe, Masayuki; Akagawa, Masaki; and Mori, Yoshikazu, 4,658,125, Cl. 235-449.000.

Watabe, Seiji; Yokoyama, Isao; Sasaki, Masanori; Toyoshima, Yotaro; Takahashi, Sumio; and Maeda, Tsutomu, to TDK Corporation. Electromagnetic deflection-distortion corrector. 4,714,908, 12-22-87, Cl. 335-212.000.

Watabe, Shin, to Mitsubishi Jukogyo Kabushiki Kaisha. Operation mode controller. 4,682,279, 7-21-87, Cl. 364-141.000.

Watabe, Takaharu, to Santo Industries Co., Ltd.; and Western Trading Co., Ltd. Hinge-type lid mounting device. 4,660,251, 4-28-87, Cl. 16-367.000.

Watabe, Yoji: *See*—
Kurachi, Yasuo; Arai, Katsuhiko; Wada, Hiroaki; Watabe, Yoji; and Irako, Sanae, 4,702,900, Cl. 423-345.000.
Yamada, Chikara; Watabe, Yoji; Irako, Koichi, deceased; and Murakamai, Yuichi, 4,711,870, Cl. 502-303.000.

Watada, Atsuyuki: *See*—
Nakamura, Hitoshi; Machida, Hazime; Tanaka, Motoharu; Watada, Atsuyuki; Omi, Fumiya; and Koinuma, Nobuyuki, 4,670,322, Cl. 428-172.000.

Nakamura, Hitoshi; Machida, Hazime; Tanaka, Motoharu; Watada, Atsuyuki; Omi, Fumiya; and Komuma, Nobuyuki, 4,670,323, Cl. 428-172.000.
Nakamura, Hitoshi; Kaneko, Yujiro; Sawada, Yasuo; Machida, Hajime; Omi, Fumiya; and Watada, Atsuyuki, 4,690,861, Cl. 428-623.000.
Watahiki, Seishi: *See*—
Sonoda, Shinji; Ozaki, Norihiko; Watahiki, Seishi; Sakuma, Yasuzi; and Yamaguchi, Masayoshi, 4,644,791, Cl. 73-432.100.
Watai, Katsunori: *See*—
Noda, Kimio; Ozeki, Kiyoshi; Furukawa, Hiroaki; and Watai, Katsunori, 4,695,730, Cl. 250-370.000.
Watakabe, Yaichiro, to Mitsubishi Denki Kabushiki Kaisha. Photomask material. 4,678,714, 7-7-87, Cl. 428-432.000.
Watanabe, Akihide: *See*—
Shimaguchi, Takashi; Natori, Tatsuo; Watanabe, Akihide; and Koike, Keiichi, 4,659,526, Cl. 264-86.000.
Watanabe, Akio: *See*—
Tokuoka, Yasumichi; Yamakawa, Yoshisuke; and Watanabe, Akio, 4,663,246, Cl. 428-694.000.
Tokuoka, Yasumichi; Yamakawa, Yoshisuke; and Watanabe, Akio, 4,684,546, Cl. 427-130.000.
Watanabe, Akira; Takeuchi, Yoshimitsu; Kihara, Seiji; Mitsudoh, Makoto; and Wakabayashi, Yoh'ichi, to Kyushu Refractories Co., Ltd. High strength calcium phosphate glass-ceramic materials. 4,681,633, 7-21-87, Cl. 106-35.000.
Watanabe, Akira, to Mitsubishi Jukogyo Kabushiki Kaisha. Tool-magazine indexing device. 4,688,680, 8-25-87, Cl. 211-1.500.
Watanabe, Asao: *See*—
Ochi, Hiroshi; Tetsutani, Nobuji; Yamamoto, Tetsuji; Kitani, Shigehisa; and Watanabe, Asao, 4,698,688, Cl. 358-257.000.
Watanabe, Atsuo; and Fukumitsu, Mikio, to Yamauchi Rubber Industry Co., Ltd. Press roll for paper machines. 4,704,776, 11-10-87, Cl. 29-132.000.
Watanabe, Atsuo: *See*—
Yamaguchi, Takeshi; and Watanabe, Atsuo, 4,664,932, Cl. 426-653.000.
Watanabe, Eifu; and Yamazaki, Toshiyuki, to Sanshin Kogyo Kabushiki Kaisha. Protective cowling arrangement for outboard motor. 4,698,037, 10-6-87, Cl. 440-78.000.
Watanabe, Eiki, to Mitsubishi Denki Kabushiki Kaisha. Elevator rescue apparatus during stoppage of power supply. 4,642,474, 2-10-87, Cl. 307-64.000.
Watanabe, Eiki, to Mitsubishi Denki Kabushiki Kaisha. Control apparatus for elevator. 4,666,020, 5-19-87, Cl. 187-114.000.
Watanabe, Eiki, to Mitsubishi Denki Kabushiki Kaisha. Display device for an escalator. 4,711,335, 12-8-87, Cl. 198-324.000.
Watanabe, Eiki: *See*—
Kitaoka, Takashi; and Watanabe, Eiki, 4,678,063, Cl. 187-119.000.
Watanabe, Fumio, to Mitsubishi Denki Kabushiki Kaisha. Device for determining a setting value of a shape operating amount in a rolling mill. 4,633,692, 1-6-87, Cl. 72-8.000.
Watanabe, Fumio, to Tokyo Shibaura Denki Kabushiki Kaisha. Ion selective electrode device and ion analyzing apparatus. 4,647,362, 3-3-87, Cl. 204-411.000.
Watanabe, Fumio; Komaki, Shojiro; Miyamoto, Masao; and Ito, Takao, to Seiko Instruments & Electronics Ltd. AC-modulation quadrupole mass spectrometer. 4,695,724, 9-22-87, Cl. 250-292.000.
Watanabe, Fumio: *See*—
Fukuda, Norisuke; Sasaki, Yasuhito; and Watanabe, Fumio, 4,671,458, Cl. 236-49.000.
Nishibayashi, Hideyuki; Ito, Shigeyoshi; Watanabe, Fumio; and Goto, Takakiyo, 4,709,090, Cl. 562-537.000.
Sakamaki, Takeshi; and Watanabe, Fumio, 4,675,162, Cl. 422-65.000.
Watanabe, Hamao: *See*—
Nagai, Yoichiro; Watanabe, Hamao; and Akutsu, Yoshinori, 4,707,557, Cl. 556-430.000.
Nagai, Yoichiro; Watanabe, Hamao; and Akutsu, Yoshinori, 4,716,240, Cl. 556-430.000.
Watanabe, Harumichi: *See*—
Yoshida, Toshio; and Watanabe, Harumichi, 4,665,275, Cl. 585-27.000.
Yoshida, Toshio; and Watanabe, Harumichi, 4,714,794, Cl. 585-26.000.
Watanabe, Haruo; Tajima, Eiichi; Matsunaga, Masaaki; Hirohara, Toshihide; Imaina, Yoshio; Ando, Naotake; Takahashi, Shigeyuki; and Takahashi, Teruaki, to Citizen Watch Co., Ltd. Liquid crystal display device having a resin-coated IC chip. 4,643,526, 2-17-87, Cl. 350-332.000.
Watanabe, Haruo; Mitsuhida, Noboru; Andoh, Makoto; and Matsumoto, Hakuji, to Toyo Boseki Kabushiki Kaisha. Method for determination of hydrogen peroxide by chemiluminescence analysis. 4,647,532, 3-3-87, Cl. 435-28.000.
Watanabe, Haruo, to Citizen Watch Co., Ltd. Liquid crystal color display panel with mosaic color filter. 4,690,511, 9-1-87, Cl. 350-339.00F.
Watanabe, Haruo: *See*—
Hisaminato, Takahiro; and Watanabe, Haruo, 4,659,139, Cl. 296-210.000.
Watanabe, Hideaki: *See*—
Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Watanabe, Hideaki; Igarashi, Toshiji; Shojiri, Hiroyuki; Tanabe, Yoshio; and Hara, Kumiko, 4,639,450, Cl. 514-238.000.
Watanabe, Hideji; Ohki, Hiroshi; and Watanabe, Ketzou, to Sanyo Denki Co., Ltd. Stator winding apparatus. 4,634,063, 1-6-87, Cl. 242-1.10R.
Watanabe, Hideki: *See*—
Takenaka, Takaji; Watanabe, Hideki; and Imada, Haruhiko, 4,706,165, Cl. 361-403.000.
Watanabe, Hidenori: *See*—
Nagatsuka, Kenichi; and Watanabe, Hidenori, 4,664,212, Cl. 180-164.000.
Watanabe, Hideo, to Komori Printing. Double sheet detection method and apparatus of sheet-fed rotary press. 4,642,456, 2-10-87, Cl. 250-223.00R.
Watanabe, Hideo, to Komori Printing Machinery Co., Ltd. Double sheet detection method and apparatus of sheet-fed rotary press. 4,642,457, 2-10-87, Cl. 250-223.00R.
Watanabe, Hideo; Ohori, Koichi; and Takeuchi, Yo, to Mitsubishi Aluminium Kabushiki Kaisha. Superplastic aluminum alloy. 4,645,543, 2-24-87, Cl. 148-2.000.
Watanabe, Hideo, to Fuji Photo Film Co., Ltd. Temperature controller for semiconductor device. 4,689,659, 8-25-87, Cl. 357-81.000.
Watanabe, Hideo; and Nakajima, Nobuyoshi, to Fuji Photo Film Co., Ltd. Radiation image reproducing method and apparatus. 4,695,726, 9-22-87, Cl. 250-327.200.
Watanabe, Hideo: *See*—
Horikawa, Kazuo; and Watanabe, Hideo, 4,689,482, Cl. 250-205.000.
Kumata, Masataka; Emori, Kazuo; Mitsumori, Masahito; Watanabe, Hideo; and Kobayashi, Kazuaki, 4,664,644, Cl. 464-180.000.
Tamura, Kazuhisa; Watanabe, Hideo; and Shimizu, Akihiro, 4,685,529, Cl. 180-89.120.
Watanabe, Hideomi: *See*—
Aonuma, Masashi; Watanabe, Hideomi; Miyoshi, Takahito; and Okita, Tsutomu, 4,686,149, Cl. 428-522.000.
Watanabe, Hidetoshi: *See*—
Tanuma, Yoshimi; and Watanabe, Hidetoshi, 4,651,876, Cl. 206-387.000.
Watanabe, Hiroaki, to Fuji Kagakushi Kogyo Co., Ltd. Spool for correction tape assembly. 4,654,272, 8-4-87, Cl. 400-242.000.
Watanabe, Hiroaki: *See*—
Kawaguchi, Kiyoshi, 4,651,943, Cl. 242-68.300.
Watanabe, Hirokazu, to Nippon Notion Kogyo Co., Ltd. Flexible button. 4,683,621, 8-4-87, Cl. 24-95.000.
Watanabe, Hirokazu, to Yoshida Kogyo K. K. Socket element assembly for snap fasteners. 4,698,881, 10-13-87, Cl. 24-113.0MP.
Watanabe, Hirokazu: *See*—
Tanaka, Akira; and Watanabe, Hirokazu, 4,706,344, Cl. 24-94.000.
Watanabe, Hiromitsu, to Yamaha Hatsudoki Kabushiki Kaisha. Drive arrangement for three wheeled vehicles. 4,691,799, 9-8-87, Cl. 180-215.000.
Watanabe, Hironobu; and Sakai, Akira, to Alpine Electronics Inc. Dip switch having single terminal-contact support wafer. 4,644,110, 2-17-87, Cl. 200-5.00R.
Watanabe, Hiroshi; Shimamura, Isao; Abe, Masao; and Mizusawa, Masashi, to Pilot Man-Nen-Hitsu Kabushiki Kaisha. Surface treatment of aluminum or aluminum alloys. 4,659,438, 4-21-87, Cl. 204-37.600.
Watanabe, Hiroshi; and Morimoto, Kiyoshi, to Futaba Denshi Kogyo Kabushiki Kaisha. Write head of optical printer. 4,675,572, 6-23-87, Cl. 313-495.000.
Watanabe, Hiroshi; Johzuka, Takashi; and Suzuki, Masatoshi, to New Japan Radio Co., Ltd. Frequency converter. 4,691,376, 9-1-87, Cl. 455-131.000.
Watanabe, Hiroshi; and Shimizu, Yukihiko, to Futaba Denshi Kogyo Kabushiki Kaisha. Optical write device. 4,701,670, 10-20-87, Cl. 315-169.300.
Watanabe, Hiroshi, to Toppan Moore Company, Ltd. IC card reader/writer apparatus. 4,709,136, 11-24-87, Cl. 235-379.000.
Watanabe, Hiroshi: *See*—
Akahori, Masaaki; and Watanabe, Hiroshi, 4,668,949, Cl. 340-825.470.
Kage, Kouzou; and Watanabe, Hiroshi, 4,635,298, Cl. 455-295.000.
Koshizuka, Kunihiro; Abe, Takao; Kitamura, Shigehiro; and Watanabe, Hiroshi, 4,673,618, Cl. 428-336.000.
Kusaka, Yoshimi; Yoshinari, Takashi; and Watanabe, Hiroshi, 4,658,799, Cl. 123-622.000.
Morimoto, Kiyoshi; Watanabe, Hiroshi; and Tsuruoka, Yoshihisa, 4,666,415, Cl. 445-24.000.
Mullin, John G., Jr.; Nakamura, Keiji; Tilley, Jefferson W.; and Watanabe, Hiroshi, 4,696,930, Cl. 514-256.000.
Nakajima, Kohei; Nishio, Kazuaki; and Watanabe, Hiroshi, 4,696,994, Cl. 528-176.000.
Nishikawa, Masumi; Ishikawa, Masarobu; Watanabe, Hiroshi; Kikuchi, Kenichi; and Takizawa, Sumio, 4,669,325, Cl. 74-89.150.
Watanabe, Hirotoshi; Makino, Osamu; and Ishida, Toru, to Matsushita Electric Industrial Co., Ltd. Thick film resistor composition. 4,695,504, 9-22-87, Cl. 428-209.000.
Watanabe, Hiroyuki; and Masuda, Fumitoshi, to Murata Manufacturing Co., Ltd. Rotary trimmer potentiometer. 4,646,055, 2-24-87, Cl. 338-162.000.
Watanabe, Hiroyuki; and Ohashi, Mikio, to Toyota Jidosha Kabushiki Kaisha. Vehicle roof and door connection. 4,653,802, 3-31-87, Cl. 296-203.000.
Watanabe, Hiroyuki; Hamada, Eiichi; Hayashi, Motomu; and Ono, Kenji, to Toyota Jidosha Kabushiki Kaisha. Construction of door in motor vehicle. 4,697,386, 10-6-87, Cl. 49-374.000.

Watanabe, Hiroyuki; and Rikumaru, Hiroshi, to Asahi Medical Co., Ltd. Method for removing leukocytes. 4,701,267, 10-20-87, Cl. 210-806.000.

Watanabe, Hiroyuki: *See*—
Aonuma, Mitsuyoshi; Watanabe, Hiroyuki; Kawada, Haruki; Noguchi, Kohkichi; Ueda, Akio; Akita, Shuichi; Ohyama, Tetsuo; and Kase, Toshio. 4,647,625, Cl. 528-232.000.
Hirose, Kazutaka; and Watanabe, Hiroyuki. 4,688,844, Cl. 296-76.000.
Kikuchi, Yasushi; Kayama, Kazuyoshi; Tokieda, Akinori; Watanabe, Hiroyuki; and Akita, Shuichi. 4677,165, Cl. 525-332.900.
Koiwai, Sakae; Asaoka, Keizo; Shirasawa, Katsuhiko; Watanabe, Hiroyuki; and Honda, Junichi. 4,640,901, Cl. 29-572.000.
Kuga, Kazuhiko; Washita, Hiroshi; and Watanabe, Hiroyuki. 4,683,171, Cl. 428-354.000.
Matsui, Kiyohide; Kikuchi, Yoshiyuki; Iiyama, Tamejiro; Tobita, Etsuko; Kondo, Kiyosi; Akimoto, Akira; Seita, Toru; and Watanabe, Hiroyuki. 4,659,744, Cl. 521-32.000.
Mikamoto, Makoto; Sasaki, Shinkichi; Watanabe, Hiroyuki; and Miyazawa, Azuma. 4,665,453, Cl. 360/96.600.
Saito, Makato; and Watanabe, Hiroyuki. 4,676,763, Cl. 446-230.000.

Watanabe, Hisaji: *See*—
Okada, Yoshinori; Watanabe, Hisaji; Fukushima, Isao; and Yoshida, Hideo. 4,672,468, Cl. 358-310.000.

Watanabe, Hisao: *See*—
Matsumoto, Susumu; Suzuki, Shigeru; Watanabe, Hisao; and Hanabe, Hiroshi. 4,705,554, Cl. 71-83.000.

Watanabe, Hisatsune; and Usui, Akira, to NEC Corporation. Light emitting diode. 4,680,602, 7-14-87, Cl. 357-17.000.

Watanabe, Hitoshi, to Nippon Thompson Co., Ltd. Ball spline bearing. 4,634,296, 1-6-87, Cl. 384-45.000.

Watanabe, Hitoshi, to Nippon Thompson Co., Ltd. Roller retaining assembly. 4,702,628, 10-27-87, Cl. 384-580.000.

Watanabe, Ichiro: *See*—
Yamada, Hideaki; Ryuno, Koichiro; Enomoto, Kanehiko; and Watanabe, Ichiro. 4,661,456, Cl. 435-244.000.
Yamada, Hideaki; Enomoto, Kanehiko and Watanabe, Ichiro. 4,661,457, Cl. 435-244.000.

Watanabe, Isansu; Kamiya, Kazuhiro; Torii, Takahiro; and Mori, Toshihito, to Kowa Company, Ltd. Aminoglycoside compounds. 4,647,656, 3-3-87, Cl. 536-16.100.

Watanabe, Isao; Momonoi, Kaishu; Hiraiwa, Toru; Ono, Satoshi; Nakano, Jojt; Nagumo, Katsuyuki; and Takagi, Hiroyasu, to Toyama Chemical Co., Ltd. Vasodilating and plateet aggregation inhibiting 1,4 dihydropyridines with an imidazolyl orpyridyl containing ester. 4,713,387, 12-15-87, Cl. 514-332.000.

Watanabe, Isao: *See*—
Ikawa, Kazuo; and Watanabe, Isao. 4,672273, Cl. 315-241.00P.

Watanabe, Izumi; and Yamana, Keuchi, to Fuji Photo Film Co., Ltd. Image data processing apparatus. 4,671,648 6-9-87, Cl. 355-40.000.

Watanabe, Izumi; and Tojo, Yu, to Fuji Photo Film Co., Ltd. Method of and apparatus for fixing unfixed frame. 4,693,589, 9-15-87, Cl. 355-5.000.

Watanabe, Jun: *See*—
Koseki, Hiroyuki; Watanabe, Jun; and Takano, Nanako. 4,669,520, Cl. 152-527.000.

Watanabe, Junichi: *See*—
Numata, Tatsuo; Hatanaka, Masataka; Watanabe, Junichi; Ikai, Takasi; Nawamaki, Tsutomu; and Hattori, Kenji. 4,696,694, Cl. 71-86.000.
Yamaoka, Noboru; Yokoyama, Shigeki; Natsuura, Kazuo; Misumi, Kozo; Watanabe, Junichi; and Kadomutsu, Seiji. 4,704,439, Cl. 525-334.100.

Watanabe, Junichiro; Funahashi, Yuichi; Sugura, Kazuo; and Matsumoto, Hironori, to Toshiba Silicone Co., Ltd. Ethylidene norbornyl group-containing polysiloxane. 4,640,968, 2-3-87, Cl. 528-32.000.

Watanabe, Junichiro; Funahashi, Yuichi; Sugura, Kazuo; and Matsumoto, Hironori, to Toshiba Silicone Co., Ltd.; and Japan Synthetic Rubber Co., Ltd. Silicone elastomer composition. 4,657,965, 4-14-87, Cl. 524-506.000.

Watanabe, Junichiro: *See*—
Hashimoto, Takatsugu; Machara, Akihiro; Tomita, Seisuke; Funahashi, Yuichi; Watanabe, Junichiro; Sugiura, Kazuo; and Matsumoto, Hironori. 4,714,734, Cl. 52-496.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba Image forming apparatus. 4,634,260, 1-6-87, Cl. 355-7.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,638,330, 1-20-87, Cl. 346-76.0PH.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image building apparatus. 4,638,331, 1-20-87, Cl. 346-76.0PH.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image-forming apparatus. 4,644,370, 2-17-87, Cl. 346-76.0PH.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Sheet feeder. 4,645,192, 2-24-87, Cl. 271-9.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,645,333, 2-24-87, Cl. 355-30.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Developing device and electronic copying apparatus. 4,647,180, 3-3-87, Cl. 355-3.0DD.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Picture image forming apparatus. 4,649,437, 3-10-87, Cl. 358-286.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,651,224, 3-17-87, Cl. 358-285.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,652,113, 3-24-87, Cl. 355-3.0DD.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus with area selection and preservation functions. 4,653,899, 3-31-87, Cl. 355-14.00R.

Watanabe, Junji; and Oushiden, Hideshi, to Kabushiki Kaisha Toshiba. Image forming apparatus with image forming area selection. 4,655,580, 4-7-87, Cl. 355-7.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,655,585, 4-7-87, Cl. 355-61.000.

Watanabe, Junji; and Ogura, Masahiko, to Kabushiki Kaisha Toshiba. Photocopying device with specified condition checking function. 4,657,375, 4-14-87, Cl. 355-14.00R.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus with area selection and confirmation. 4,666,288, 5-19-87, Cl. 355-14.00R.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image building apparatus. 4,672,394, 6-9-87, Cl. 346-76.0PH.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Ribbon cassette cartridge having a lid and a locator slot. 4,676,678, 6-30-87, Cl. 400-208.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,678,315, 7-7-87, Cl. 355-7.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,685,794, 8-11-87, Cl. 355-7.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image reading apparatus. 4,689,693, 8-25-87, Cl. 358-285.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus with a plurality of colors. 4,690,543, 9-1-87, Cl. 355-4.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,692,021, 9-8-87, Cl. 355-14.00R.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,695,151, 9-22-87, Cl. 355-3.00R.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus with document size detection. 4,695,154, 9-22-87, Cl. 355-8.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image building apparatus. 4,695,897, 9-22-87, Cl. 358-296.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,696,564, 9-29-87, Cl. 355-14.00R.

Watanabe, Junji; and Matsuyama, Kozo, to Kabushiki Kaisha Toshiba. Image forming apparatus with an operation panel control function. 4,699,501, 10-13-87, Cl. 355-14.00R.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Thermal ribbon cassette and housing therefore. 4,702,631, 10-27-87, Cl. 400-208.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Multi-color image forming apparatus. 4,705,394, 11-10-87, Cl. 355-3.0DD.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image-forming apparatus. 4,708,486, 11-24-87, Cl. 358-296.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus with a plurality of colors. 4,711,553, 12-8-87, Cl. 355-4.000.

Watanabe, Junji, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,711,557, 12-8-87, Cl. 355-14.00R.

Watanabe, Junji: *See*—
Harada, Kentaro; and Watanabe, Junji. 4,707,110, Cl. 355-7.000.

Watanabe, Kaneo: *See*—
Nakashima, Yukio; Haku, Hisao; Watanabe, Kaneo; and Matsuoka, Tsugufumi. 4,705,912, Cl. 136-258.000.

Watanabe, Kanji; Mizoe, Mikio; and Inoo, Eiji, to Sumitomo Electric Industries, Ltd. Steel materials for use with prestressed concrete. 4,643,929, 2-17-87, Cl. 428-36.000.

Watanabe, Kanji; and Mizoe, Mikio, to Sumitomo Electric Industries, Ltd. Steel materials for use with prestressed concrete. 4,661,387, 4-28-87, Cl. 428-36.000.

Watanabe, Kaoru: *See*—
Tabata, Shin-ichi; Suzuki, Tomio; Hamamoto, Youichi; Hayakawa, Noboru; and Watanabe, Kaoru. 4,655,925, Cl. 210-605.000.

Watanabe, Katsuhiko: *See*—
Usami, Kyohei; and Watanabe, Katsuhiko. 4,696,686, Cl. 55-158.000.

Watanabe, Katsunori: *See*—
Yoshihara, Toshiyuki; Hiro, Masaaki; and Watanabe, Katsunori. 4,716,091, Cl. 430-66.000.

Watanabe, Katsuya: *See*—
Saito, Yasuhisa; Takagishi, Hisao; Watanabe, Katsuya; Okuno, Kohichi; Kenmei, Junichi; and Kamio, Kunimasa. 4,705,833, Cl. 525-504.000.

Watanabe, Katsuyoshi; and Fukuyama, Yoshiya, to Sumitomo Chemical Company, Limited. Poly (hydroxy ether). 4,657,954, 4-14-87, Cl. 523-459.000.

Watanabe, Katumi, to Kawasaki Jukogyo Kabushiki Kaisha. Watercraft with thrust-reversing device. 4,708,671, 11-24-87, Cl. 440-41.000.

Watanabe, Kazuaki: *See*—
Hayakawa, Yoichi; Kawai, Masao; Taga, Yutaka; Watanabe, Kazuaki; and Harada, Yoshiharu. 4,679,450, Cl. 74-752.00A.
Kobayashi, Koji; Sumiya, Koji; Taga, Yutaka; and Watanabe, Kazuaki. 4,693,353, Cl. 192-85.0AA.
Moroto, Shuzo; Sumiya, Koji; Watanabe, Kazuaki; Kubo, Seitoku; Kobayashi, Koji; and Taga, Yutaka. 4,714,146, Cl. 192-85.0AA.
Sumiya, Koji; Kano, Takenori; Kubo, Seitoku; and Watanabe, Kazuaki. 4,682,534, Cl. 92-130.00R.
Sumiya, Koji; Watanabe, Kazuaki; and Kubo, Seitoku. 4,690,037, Cl. 92-130.00R.
Tsukamoto, Kazumasa; Hayabuchi, Masahiro; Maeda, Koji; Watanabe, Kazuaki; and Taga, Yutaka. 4,693,348, Cl. 192-3.290.

Watanabe, Kazuki: *See*—
Asai, Akio; Watanabe, Kazuki; Yoshinaka, Ryoji; and Kiru, Kazunari. 4,667,496, Cl. 72-20.000.

Azuma, Hidekazu; Yoshinaka, Ryozi; Tsuruhashi, Takayuki; Hokao, Katsuiku; Watanabe, Kazuki; Ogo, Kazutaka; Suzuki, Takatoshi; and Hayashi, Masahiro, 4,656,868, Cl. 73-587.000.

atanabe, Kazumasa; Ikeuchi, Satoru; Sasaki, Osamu; and Hirose, Naohiro, to Konoshiroku Photo Industry Co., Ltd. Electrophotographic photoreceptor containing an azo compound. 4,647,520, 3-3-87, Cl. 430-58.000.

atanabe, Kazumasa: *See*—
Kinoshita, Akira; Watanabe, Kazumasa; Yamazaki, Hiroshi; and Hirose, Naohiro, 4,692,393, Cl. 430-59.000.

atanabe, Kazumi: *See*—
Kosugi, Ken-ichi; Asahara, Yuuji; and Watanabe, Kazumi, 4,653,704, Cl. 242-195.600.

atanabe, Kazunori: *See*—
Arakawa, Tetsuo; Kato, Masaaki; and Watanabe, Kazunori, 4,660,515, Cl. 123-90.270.

atanabe, Kazuo; Shougase, Hajime; and Umeoka, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Rear fork of motorcycle. 4,634,139, 1-6-87, Cl. 280-288.000.

atanabe, Kazuo; and Sato, Tetsuo, to Hitachi, Ltd. Signal transmission circuit. 4,639,795, 1-27-87, Cl. 360-62.000.

atanabe, Kazuya: *See*—
Maehara, Yasunori; Fujiwara, Sigemi; Koyama, Katsuhide; Tamura, Kaoru; Kawai, Yasuhiro; and Watanabe, Kazuya, 4,697,902, Cl. 354-281.000.

atanabe, Keiichirou: *See*—
Nakano, Kazuhiko; and Watanabe, Keiichirou, 4,687,675, Cl. 427-2.000.

atanabe, Keisuke; and Iwamoto, Toshiyuki, to Nippon Gakki Seizo Kabushiki Kaisha. Pedal keyboard for electronic musical instrument. 4,653,378, 3-31-87, Cl. 84-423.00R.

atanabe, Keisuke; and Iwamoto, Toshiyuki, to Nippon Gakki Seizo Kabushiki Kaisha. Keyboard switch apparatus for electronic musical instrument. 4,668,843, 5-26-87, Cl. 200-5.00A.

atanabe, Keizou: *See*—
Watanabe, Hideji; Ohki, Hiroshi; and Watanabe, Keizou, 4,634,063, Cl. 242-1.10R.

atanabe, Kenichi, to Hitachi, Ltd.; and Hitachi Keiyo Engineering Co., Ltd. Control system for automatic electronic-part mounter. 4,681,452, 7-21-87, Cl. 356-375.000.

atanabe, Kenichi; and Taniguchi, Haruyuki, to Mazda Motor Corporation. Hydraulic mounting system for a power unit. 4,706,945, 11-17-87, Cl. 267-186.000.

atanabe, Kenichi; Hiruta, Hideshi; and Hiketa, Manabu, to Mazda Motor Corporation. Torque control system for vehicles. 4,709,775, 12-1-87, Cl. 180-233.000.

atanabe, Ken'ichi: *See*—
Kambara, Hideki; Tokita, Jirou; Simada, Tamotu; and Watanabe, Ken'ichi, 4,675,095, Cl. 204-299.00R.

atanabe, Kenji; Yamazaki, Isamu; Kyomasu, Ryuichi; Takasugi, Nobuhiro; Mimata, Tsutomu; and Kakutani, Osamu, to Hitachi, Ltd.; and Hitachi Tokyo Engineering Co., Ltd. Manufacturing apparatus. 4,674,670, 6-23-87, Cl. 228-102.000.

atanabe, Kenji; Kato, Hiroshi; and Onishi, Katsunori, to Inoue Mtp Kabushiki Kaisha. Apparatus for winding a sheet-formed article. 4,690,348, 9-1-87, Cl. 242-66.000.

atanabe, Kenji: *See*—
Hashimoto, Takeji; and Watanabe, Kenji, 4,675,242, Cl. 428-131.000.
Hirai, Kazumi; Akiyoshi, Mitsuo; Nakano, Chikao; Watanabe, Kenji; and Kodama, Satoru, 4,673,800, Cl. 219-518.000.

atanabe, Kenjiro, to Canon Kabushiki Kaisha. Liquid injection recording apparatus. 4,635,080, 1-6-87, Cl. 346-140.00R.

atanabe, Kenshu; Uchikawa, Tadashi; Takiyama, Masashi; and Kurahashi, Takashi, to Doryokuro Kakunenryo Kaihatsu Jigyodan. System and method of confirming operation of a steam relieving safety valve for a water-cooled nuclear reactor. 4,648,425, 3-10-87, Cl. 137-557.000.

atanabe, Kenshu; Shiba, Kiminori; Arai, Mikiya; Yamaguchi, Masaya; Fujiki, Yasuo; and Fujimoto, Ryohei, to Doryokuro Kakunenryo Kaihatsu Jigyodan. Condenser microphone having resistance against high-temperature and radioactive rays. 4,648,480, 3-10-87, Cl. 181-158.000.

atanabe, Kikuo; Kobayashi, Mitsuo; Hirose, Noboru; and Sato, Kenichi, to Brother Kogyo Kabushiki Kaisha. Machine tool. 4,679,296, 7-14-87, Cl. 29-568.000.

atanabe, Kiminori: *See*—
Nakagawa, Akio; Ohashi, Hiromichi; Yamaguchi, Yoshihiro; Watanabe, Kiminori; and Thukakoshi, Thureo, 4,672,407, Cl. 357-23.400.
Nakagawa, Akio; and Watanabe, Kiminori, 4,680,604, Cl. 357-23.400.

atanabe, Kinichiro; Horiai, Kunio; Mashiko, Tomoyuki; Kato, Hitoshi; Yamaguchi, Hiromasa; and Nishiyama, Toshihiko, to Kabushiki Kaisha Komatsu Seisakusho. Turbo-compound compressor system. 4,679,992, 7-14-87, Cl. 417-364.000.

atanabe, Kiyoo: *See*—
Monno, Asao; Watanabe, Kiyoo; and Kaneko, Kazuyuki, 4,695,729, Cl. 250-358.100.

atanabe, Kiyoshi: *See*—
Takahashi, Satomi; Inoue, Kenji; Yanagida, Yoshifumi; Ohashi, Takehisa; and Watanabe, Kiyoshi, 4,716,235, Cl. 548-533.000.
Uchino, Hayashi; Azuma, Masaaki; Ohashi, Takehisa; and Watanabe, Kiyoshi, 4,649,197, Cl. 544-258.000.
Yamane, Takehiko; Hashizume, Takuji; Yamashita, Katsuji; and Watanabe, Kiyoshi, 4,690,919, Cl. 514-183.000.

Watanabe, Kiyosi: *See*—
Sakai, Etsuo; Nishioka, Asaaki; Watanabe, Kiyosi; and Mino, Iwao, 4,708,626, Cl. 425-398.000.

Watanabe, Koichi; and Maesaka, Michinobu, to Murata Manufacturing Co., Ltd. Electric double layer capacitor. 4,697,224, 9-29-87, Cl. 361-433.000.

Watanabe, Koichi: *See*—
Maesaka, Michinobu; Watanabe, Koichi; and Murata, Michihiro, 4,683,639, Cl. 29-570.100.

Watanabe, Koji; Watanabe, Mitsuo; Toyoda, Naoki; Toyoda, Hideo; Kumano, Toshio; and Hiramoto, Michiaki, to Hitachi Plant Engineering & Construction Co., Ltd. Method of and apparatus for emitting light in ice. 4,667,481, 5-26-87, Cl. 62-235.000.

Watanabe, Koji; Okamoto, Miyoshi; Mori, Yuichi; and Noshiki, Yasuharu, to Toray Industries, Inc. Artificial vascular graft. 4,695,280, 9-22-87, Cl. 623-1.000.

Watanabe, Koji: *See*—
Suzuki, Kizuo; Isoguchi, Seiichi; Watanabe, Koji; Yokoyama, Shotaro; and Nishibe, Takashi, 4,652,119, Cl. 356-1.000.
Umezawa, Takashi; and Watanabe, Koji, 4,709,949, Cl. 292-6.000.

Watanabe, Kouzou: *See*—
Tokunaga, Norikazu; Fukui, Hiroshi; Watanabe, Kouzou; Amano, Hisao; and Sato, Masayoshi, 4,692,643, Cl. 307-584.000.

Watanabe, Koya: *See*—
Date, Takao; Okumura, Masaru; and Watanabe, Koya, 4,715,490, Cl. 198-346.100.

Watanabe, Kozo, to Yoshida Kogyo K. K. Apparatus for binding elongate products. 4,665,679, 5-19-87, Cl. 53-131.000.

Watanabe, Kozo; Kando, Akiyoshi; and Horita, Yoshiyuki, to Yoshida Kogyo K.K. Top end-stop attaching machine with improved top end-stop supplying apparatus. 4,711,020, 12-8-87, Cl. 29-767.000.

Watanabe, Kozo: *See*—
Mitadera, Takashi; Shirai, Tetsuaki; Nakagawa, Tomozo; Nii, Naotake; and Watanabe, Kozo, 4,688,529, Cl. 123-196.00R.

Watanabe, Kuniaki, to Toshiba Ceramics Co., Ltd. Method of machining a ceramic member. 4,650,619, 3-17-87, Cl. 264-25.000.

Watanabe, Kuniaki; and Suzuki, Hideo, to Toshiba Ceramics Co., Ltd. Nozzle for continuous casting of molten steel. 4,682,718, 7-28-87, Cl. 222-591.000.

Watanabe, Kunihiko: *See*—
Ninomi, Naoyuki; and Watanabe, Kunihiko, 4,649,786, Cl. 84-1.190.

Watanabe, Kunio: *See*—
Saito, Asao; and Watanabe, Kunio, 4,692,773, Cl. 346-1.100.
Yamamoto, Mitsuru; Watanabe, Kunio; and Shimoda, Junji, 4,639,735, Cl. 346-1.100.

Watanabe, Kyoichi A.: *See*—
Fox, Jack J.; Watanabe, Kyoichi A.; Lopez, Carlos; and Trepo, Christian G., 4,666,892, Cl. 514-49.000.

Watanabe, Makoto: Device for moulding containers. 4,695,243, 9-22-87, Cl. 425-388.000.

Watanabe, Makoto: *See*—
Shimaoka, Motohiro; and Watanabe, Makoto, 4,654,734, Cl. 360-99.000.

Watanabe, Masaharu; and Ohe, Hiroaki, to Terumo Kabushiki Kaisha. Apparatus for separating proteins from blood plasma. 4,678,566, 7-7-87, Cl. 210-143.000.

Watanabe, Masaharu: *See*—
Seshine, Hirokazu; Morimune, Katuhiko; Watanabe, Masaharu; and Suzuki, Nobuo, 4,649,408, Cl. 357-24.000.

Watanabe, Masahiko: *See*—
Hirohashi, Setsuo; Shimosato, Yukio; and Watanabe, Masahiko, 4,683,200, Cl. 435-68.000.
Omae, Tsutomu; Obara, Sanshiro; Kubo, Kenji; and Watanabe, Masahiko, 4,712,052, Cl. 318-625.000.

Watanabe, Masakazu; and Okuno, Akiyasu, to NGK Spark Plug Co., Ltd. Microwave absorber comprised of a dense silicon carbide body which is water cooled. 4,638,268, 1-20-87, Cl. 333-22.00F.

Watanabe, Masakazu; Okuno, Akiyasu; Nozaki, Shunkichi; Matsuo, Yasushi; and Fukuura, Isamu, to NGK Spark Plug Co., Ltd. Process for producing silicon carbide heating elements. 4,668,452, 5-26-87, Cl. 264-63.000.

Watanabe, Masakazu: *See*—
Okuno, Akiyasu; and Watanabe, Masakazu, 4,690,909, Cl. 501-90.000.
Okuno, Akiyasu; Watanabe, Masakazu; and Ikoma, Kazuhiko, 4,695,517, Cl. 428-698.000.
Okuno, Akiyasu; and Watanabe, Masakazu, 4,701,426, Cl. 501-90.000.

Watanabe, Masaki; Yamamoto, Hitoshi; Matsuoka, Yoshinori; and Tanaka, Kunihiko, to Honda Giken Kogyo Kabushiki Kaisha. Tiltable tricycle. 4,678,053, 7-7-87, Cl. 180-210.000.

Watanabe, Masaki: *See*—
Horiuchi, Tadanori; and Watanabe, Masaki, 4,664,208, Cl. 180-23.000.

Watanabe, Masamichi; and Watanabe, Yasushi, to Alps Electric Co., Ltd. Circuit board. 4,677,529, 6-30-87, Cl. 361-414.000.

Watanabe, Masamichi; and Watanabe, Yasushi, to Alps Electric Co., Ltd. Circuit board. 4,691,188, 9-1-87, Cl. 338-307.000.

Watanabe, Masanori; and Hijikigawa, Masaya, to Sharp Kabushiki Kaisha. FET type sensor and a method for driving the same. 4,698,657, 10-6-87, Cl. 357-25.000.

Watanabe, Masanori: *See*—
Hamada, Kiyoshi; Watanabe, Masanori; Nonomura, Kinzo; Katsuyama, Minoru; and Hirano, Riyuma, 4,651,058, Cl. 315-98.000.

Inami, Yasuhiko; Watanabe, Masanori; and Hijikigawa, Masaya, 4,638,346, Cl. 357-25.000.

Watanabe, Masao: *See*—
Nakada, Seiichi; Hanada, Tool; and Watanabe, Masao, 4,640,028, Cl. 38-77.700.

Watanabe, Masato; Tanaka, Yasuhiko; and Murakami, Kiyotaka, to Konishiroku Photo Industry Co., Ltd. Heater power controller for ink jet printer. 4,660,057, 4-21-87, Cl. 346-140.00R.

Watanabe, Masatoshi: *See*—
Ito, Motoya; Takahashi, Noriyoshi; Watanabe, Masatoshi; Abukawa, Toshimi; Seya, Takeshi; Kainuma, Hiroshi; and Syutoo, Toshiyuki, 4,704,789, Cl. 29-609.000.
Yamashita, Nobuyuki; Tahara, Kazuo; Watanabe, Masatoshi; and Takahashi, Noriyoshi, 4,657,818, Cl. 428-446.000.

Watanabe, Masatsugu: *See*—
Omori, Shigeru; Watanabe, Masatsugu; and Oboshi, Fumio, 4,655,832, Cl. 106-1.180.
Omori, Shigeru; Watanabe, Masatsugu; and Oboshi, Fumio, 4,714,622, Cl. 427-11.000.

Watanabe, Masayoshi, to Hitachi, Ltd. Device for mounting an information carrying disc member. 4,641,297, 2-3-87, Cl. 369-75.200.

Watanabe, Masayuki; and Yashiro, Sadao, to Kabushiki Kaisha Toshiba. Apparatus for manufacturing a compound-semiconductor single crystal by the liquid encapsulated czochralski (LEC) process. 4,668,481, 5-26-87, Cl. 422-249.000.

Watanabe, Masayuki: *See*—
Washizuka, Syoichi; Watanabe, Masayuki; Yashiro, Sadao; and Nakanishi, Masae, 4,686,091, Cl. 422-249.000.

Watanabe, Mikio: *See*—
Shimizu, Toshihide; Kaneko, Ichiro; Watanabe, Mikio; and Shimakura, Yoshiteru, 4,708,890, Cl. 427-230.000.

Watanabe, Minoru: *See*—
Kyoto, Michihisa; Watanabe, Minoru; and Ishiguro, Yoichi, 4,664,690, Cl. 65-3.120.
Muto, Kenji; Sugaya, Toru; Kuroda, Tokuyuki; Hashimoto, Tamotsu; Yamada, Koji; Nakamizo, Nobuhiro; and Watanabe, Minoru, 4,639,522, Cl. 546-194.000.

Watanabe, Mitsuo: *See*—
Hirai, Nobuyuki; and Watanabe, Mitsuo, 4,704,522, Cl. 250-213.0VT.
Watanabe, Koji; Watanabe, Mitsuo; Toyoda, Naoki; Toyoda, Hideo; Kumano, Toshio; and Hiramoto, Michiaki, 4,667,481, Cl. 62-235.000.

Watanabe, Mitsuru: *See*—
Suzuki, Hidemasa; Watanabe, Mitsuru; and Ohtake, Matsuo, 4,669,230, Cl. 51-415.000.

Watanabe, Mitukazu: *See*—
Sera, Michitoshi; Watanabe, Mitukazu; and Aoki, Kiyoshi, 4,708,613, Cl. 425-117.000.

Watanabe, Mituru, to Oki Electric Industry Co., Ltd. Water control valve with pneumatic actuator. 4,644,969, 2-24-87, Cl. 137-625.270.

Watanabe, Morio; and Nishimura, Sanji, to Solex Research Corporation of Japan. Process for selectively stripping iron ions from an organic solvent. 4,670,230, 6-2-87, Cl. 423-98.000.

Watanabe, Morio; Nishimura, Sanji; and Watanabe, Nobuatsu, to Solex Research Corporation of Japan. Crystallizer. 4,678,646, 7-7-87, Cl. 422-245.000.

Watanabe, Mutsumi, to Kabushiki Kaisha Toshiba. Image processing system. 4,635,293, 1-6-87, Cl. 382-44.000.

Watanabe, Naoharu; Numata, Kazuo; Yamagishi, Michio; Mizutani, Taku; Omura, Sadafumi; and Yamaguchi, Hideyo, to Taisho Pharmaceutical Co., Ltd. Method for the treatment of systemic mycosis. 4,680,311, 7-14-87, Cl. 514-561.000.

Watanabe, Naomitsu, to Hitachi, Ltd. Index type color picture tube. 4,680,502, 7-14-87, Cl. 313-468.000.

Watanabe, Noboru; Kubo, Yoichiro; Nakagawa, Tsuyoshi; and Shimoda, Hideyoshi, to Nippon Zeon Co., Ltd. Oil-resistant rubber composition. 4,654,404, 3-31-87, Cl. 525-315.000.

Watanabe, Nobuatsu: *See*—
Watanabe, Morio; Nishimura, Sanji; and Watanabe, Nobuatsu, 4,678,646, Cl. 422-245.000.

Watanabe, Nobuhiro: *See*—
Hori, Saburo; and Watanabe, Nobuhiro, 4,685,937, Cl. 51-309.000.

Watanabe, Nobuhisa; Iwamoto, Hisao; Nasuno, Toshihiro; and Sakamaki, Yoshio, to Kanebo Limited; and Yoshida Industry Co., Limited. Compact case. 4,684,017, 8-4-87, Cl. 206-235.000.

Watanabe, Noriko: *See*—
Hirota, Jitsuho; Machida, Kazumichi; and Watanabe, Noriko, 4,705,204, Cl. 228-179.000.

Watanabe, Okosu: *See*—
Tanaka, Masao; Watanabe, Okosu; and Inada, Koichi, 4,702,548, Cl. 350-96.150.
Yamada, Takeshi; Osato, Yasukuni; and Watanabe, Okosu, 4,680,449, Cl. 219-385.000.

Watanabe Orthopedic Systems, Inc.: *See*—
Watanabe, Robert S., 4,712,781, Cl. 269-322.000.

Watanabe, Osamu: *See*—
Konagaya, Shigeji; Watanabe, Osamu; Kuzumoto, Hideshi; Tokai, Masaya; Narusawa, Haruhiko; and Kato, Yasuo, 4,695,383, Cl. 210-500.370.
Ooshio, Hirosuke; and Watanabe, Osamu, 4,645,218, Cl. 279-1.00M.

Watanabe, Rikizo: *See*—
Misumi, Akira; Hirai, Ryoji; and Watanabe, Rikizo, 4,713,576, Cl. 313-402.000.

Watanabe, Robert S., to Watanabe Orthopedic Systems, Inc. Operating table for microscopic lumbar laminectomy surgery. 4,712,781, 12-15-87, Cl. 269-322.000.

Watanabe, Ryo: *See*—
Saeki, Osamu; Mori, Kenji; Onoda, Mamoru; Watanabe, Ryo; Shinohara, Katsufumi; Ashie, Takehiko; and Imanishi, Nobuyuki, 4,678,508, Cl. 75-26.000.

Watanabe, Ryuji; Minemura, Tetsuro; Ito, Tetsuo; Ando, Hisao; Maeda, Yoshihito; Nagai, Masaichi; Shimizu, Seiki; Konno, Kyoji; and Kaneko, Toshiki, to Hitachi, Ltd. Information recording medium. 4,651,172, 3-17-87, Cl. 346-135.100.

Watanabe, Ryuzo: *See*—
Niino, Masayuki; Yatsuyanagi, Nobuyuki; Kumakawa, Akira; Suzuki, Akio; Gomi, Hiromi; Sakamoto, Hiroshi; Sasaki, Mosaki; Maeda, Yoshimichi; Watanabe, Ryuzo; Takekawa, Junjo; Ohtsuki, Eisuke; and Isago, Terashi, 4,703,620, Cl. 60-280.000.

Watanabe, Sadakazu; and Shinoda, Hidenori, to Tokyo Shibaura Denki Kabushiki Kaisha. Individual verification apparatus. 4,651,007, 3-24-87, Cl. 381-42.000.

Watanabe, Sadakazu: *See*—
Ukita, Teruhiko; Nitta, Tsuneo; and Watanabe, Sadakazu, 4,677,673, Cl. 381-43.000.

Watanabe, Sadao: *See*—
Saeki, Kiyoshi; and Watanabe, Sadao, 4,651,049, Cl. 313-355.00.
Yokoyama, Toshinobu; Watanabe, Sadao; and Kurata, Takatsugu, 4,714,863, Cl. 315-366.000.

Watanabe, Sakuji: *See*—
Ogasawara, Akira; Watanabe, Sakuji; Terui, Nobuhiko; Utagawa, Ken; and Hoshino, Kunihisa, 4,634,551, Cl. 250-204.000.

Watanabe, Sedakazu: *See*—
Hirai, Shoichi; and Watanabe, Sedakazu, 4,716,593, Cl. 381-42.000.

Watanabe, Seiichi: *See*—
Kato, Yoji; Watanabe, Seiichi; and Wada, Masaru, 4,695,882, Cl. 357-56.000.
Sakai, Junichi; Itoh, Fujio; and Watanabe, Seiichi, 4,656,573, Cl. 360-65.000.
Yamazaki, Hiroshi; Wakatsuki, Yasuo; Fujii, Chiyuki; and Watanabe, Seiichi, 4,656,299, Cl. 556-22.000.

Watanabe, Seiji; Horimoto, Teiji; and Koizumi, Susumu, to Hitachi Kiden Kogyo Kabushiki Kaisha. Runway for a conveyor mounting linear motors. 4,714,155, 12-22-87, Cl. 198-619.000.

Watanabe, Shigeru: *See*—
Ishikawa, Ken; Ikeda, Mitsuru; and Watanabe, Shigeru, 4,652,710, Cl. 250-578.000.

Watanabe, Shin-ichi: *See*—
Fujii, Setsuro; Nakayama, Toyoo; Nunomura, Shigeki; Mase, Ryoji; Watanabe, Shin-ichi; Sudo, Kimio; Okutome, Toshiyuki; Kurumi, Masateru; Sakurai, Yojiro; and Aoyama, Taku, 4,634,783, Cl. 549-475.000.

Watanabe, Shingo: *See*—
Kamon, Yoshiyuki; Yamagishi, Makoto; and Watanabe, Shingo, 4,646,872, Cl. 181-129.000.

Watanabe, Shinichi: *See*—
Temin, Howard M.; and Watanabe, Shinichi, 4,650,784, Cl. 435-240.000.

Watanabe, Shinji: *See*—
Saijo, Akira; Matsume, Fusakiyo; Fujino, Yuji; and Watanabe, Shinji, 4,689,725, Cl. 362-66.000.

Watanabe, Shinobu: *See*—
Obayashi, Tsutomo; Watanabe, Shinobu; and Ino, Kazuhiko, 4,696,830, Cl. 427-41.000.
Obayashi, Tsutomu; Watanabe, Shinobu; and Ino, Kazuhiko, 4,678,681, Cl. 427-38.000.

Watanabe, Shinpei: *See*—
Tajima, Satoshi; and Watanabe, Shinpei, 4,644,497, Cl. 364-900.00.

Watanabe, Shinya; Tanaka, Fumihiro; Yamaguchi, Kanro; Shimada, Yoshio; and Matsushima, Kenichi, to Seiko Instruments & Electronics Ltd. Sampling clock phase correction circuit of video signal. 4,713,690, 12-15-87, Cl. 358-148.000.

Watanabe, Shinya: *See*—
Tanaka, Fumihiro; Shimada, Yoshio; Yamaguchi, Kanro; Matsushima, Kenichi; and Watanabe, Shinya, 4,713,691, Cl. 358-148.000.

Watanabe, Shiogi: *See*—
Okitu, Kiyoshi; and Watanabe, Shiogi, 4,663,428, Cl. 528-324.000.

Watanabe, Shizuharu: *See*—
Kasanami, Toru; Tani, Hiroji; Watanabe, Shizuharu; and Roh, Toshiaki, 4,693,843, Cl. 252-518.000.

Watanabe, Shizuhisa, to Hitachi, Ltd. Driving circuit for liquid crystal display. 4,676,602, 6-30-87, Cl. 350-332.000.

Watanabe, Shoji: *See*—
Baba, Kenji; Watanabe, Shoji; Nogita, Shunsuke; Yoda, Mikio; Tanaka, Akihiro; and Mori, Shunji, 4,654,139, Cl. 210-85.000.
Kasahara, Akihiro; Goto, Kenya; Yamada, Akira; and Watanabe, Shoji, 4,679,903, Cl. 350-247.000.
Murai, Takaaki; Watanabe, Shoji; Inoue, Kimio; Isobe, Tomohisa; Nakashima, Naoki; Miho, Takuya; and Ikemoto, Yoshiyuki, 4,663,429, Cl. 528-355.000.
Sagami, Yosuke; Yamamoto, Akira; Watanabe, Shoji; Isobe, Tomohisa; and Funato, Susumu, 4,703,338, Cl. 357-72.000.

Watanabe, Shojiro: *See*—
Tanji, Hiroaki; Suzuki, Masaharu; Nomura, Kenji; Watanabe, Shojiro; and Kawasaki, Takashi, 4,690,841, Cl. 428-35.000.

Watanabe, Shuichi: *See*—
Ichihara, Takeo; Watanabe, Shuichi; Futami, Takashi; and Oda, Nobutaka, 4,703,401, Cl. 362-80.000.

Watanabe, Shunichi: *See*—
Osono, Takashi; Oka, Yoshih'ro; Watanabe, Siunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Tacamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.
Taneda, Kozo; Chiba, Masae; Naka, Junichi; and Watanabe, Shunichi, 4,653,963, Cl. 406-70.000.

Watanabe, Shunso F., to Ford Motor Company. Vehicle suspension damper with remote control. 4,683,992, 8-4-87, Cl. 188-299.000.

Watanabe, Shyoichi: *See*—
Kikuchi, Hiroshi; Ohta, Yukio; and Watanabe, Shyoichi, 4,657,415, Cl. 400-59.000.
Kikuchi, Hiroshi; Watanabe, Shyoichi; and Ohta, Yukio, 4,690,577, Cl. 400-708.000.

Watanabe, Susumu: *See*—
Matsumoto, Kunio; Kagimoto, Yoshitaka; Hirata, Tsutomu; Watanabe, Susumu; Ohtsuka, Akira; and Takahashi, Kiyoharu, 4,675,290, Cl. 435-24.000.

Watanabe, Tadahiko; and Shobu, Kazuhisa, to Agency of Industrial Science and Technology. High-strength molybdenum silicide-based ceramic material and process for producing the same. 4,704,372, 11-3-87, Cl. 501-87.000.

Watanabe, Tadashi; and Inoue, Shunichi, to Bridgestone Corporation. System for manufacture of high-lug tires. 4,612,641, 7-28-87, Cl. 157-13.000.

Watanabe, Taeashi, to NEC Corporation. Vector processing system. 4,710,867, 12-1-87, Cl. 364-200.000.

Watanabe, Takahiko; Sugano, Toshiyuki; Yamamoto, Yasushi; and Murayama, Kunihiko, to Agency of Industrial Science and Technology. Method and apparatus for continuous shaping of carbon-fiber-reinforced plastic tubes. 4,673,541, 6-16-87, Cl. 264-25.000.

Watanabe, Takahiro: *See*—
Koyama, Toshihiro; Watanabe, Takahiro; Shiozaki, Hiroyuki; Kawanami, Takao; Takahashi, Hideo; Shiraishi, Toshiyuki; and Okudaira, Ken, 4,665,729, Cl. 72-8.000.

Watanabe, Takamichi: *See*—
Yabe, Yuta; Watanabe, Takamichi; and Suzuki, Hisayuki, 4,670,586, Cl. 562-466.000.

Watanabe, Takao; and Watari, Masao, to NEC Corporation. Voice input system. 4,641,342, 2-3-87, Cl. 381-41.000.

Watanabe, Takao: *See*—
Nemoto, Akira; and Watanabe, Takao, 4,671,573, Cl. 297-410.000.

Watanabe, Takashi; Tsuda, Nobuo; and Tomikawa, Inao, to Nippondenso Co., Ltd. Electro-optical rain detector for windshields. 4,701,613, 10-20-87, Cl. 250-227.000.

Watanabe, Takashi: *See*—
Fuke, Takamichi; Aikawa, Chuki; Watanabe, Takashi; and Hishi, Yuichi, 4,700,251, Cl. 360-106.000.
Hamano, Hideo; Sugita, Jun; and Watanabe, Takashi, 4,712,900, Cl. 354-400.000.
Ogawa, Takayuki; Ito, Hiroshi; Kimura, Naokazu; Ito, Hayami; Tatsumi, Shuhei; Takao, Shoichi; Suzuki, Nitaro; Watanabe, Takashi; Shinano, Kunizo; Kuwabara, Takashi; and Aoki, Kaoru, 4,712,742, Cl. 241-20.000.

Watanabe, Takayoshi: *See*—
Okawa, Shoji; Yamagishi, Hiroshi; Saito, Shigeru; Fujita, Tsuyoshi; and Watanabe, Takayoshi, 4,713,494, Cl. 174-68.500.

Watanabe, Takemi; and Shiba, Noriyuki, to Kabushiki Kaisha Kaneda Kikai Seisakusho. Automatic device for preparing paper rolls for web pasting. 4,683,022, 7-28-87, Cl. 156-505.000.

Watanabe, Takemi, to Kabushiki Kaisha Kaneda Kikai Seisakusho. Automatic device for preparing paper rolls for web pasting. 4,685,392, 8-11-87, Cl. 101-226.000.

Watanabe, Takeshi, to NEC Corporation. Programmable memory circuit. 4,697,106, 9-29-87, Cl. 307-463.000.

Watanabe, Takeshi: *See*—
Okumura, Koichiro; and Watanabe, Takeshi, 4,635,229, Cl. 365-154.000.

Watanabe, Taro: *See*—
Mikami, Kazuo; and Watanabe, Taro, 4,666,236, Cl. 350-96.150.

Watanabe, Teruiro: *See*—
Kuwabara, Hideki; Naito, Masato; Watanabe, Teishiro; and Hamada, Tadatsugu, 4,711,287, Cl. 164-34.000.

Watanabe, Teruoki; Nakamura, Yahiko; Hidaka, Akio; Kobayashi, Shunji; and Nozaki, Hiroyoshi, to Honda Giken Kogyo Kabushiki Kaisha. Method of presubstrate treatment for painting utilizing a gas soft nitriding. 4,659,628, 4-21-87, Cl. 428-457.000.

Watanabe, Tetsumi; and Yamaguro, Akira, to Aisin Seiki Kabushiki Kaisha. Burner for Stirling engines. 4,633,667, 1-6-87, Cl. 60-517.000.

Watanabe, Tetsumi, Yamaguro, Akira; and Yamaguchi, Susumu, to Aisin Seiki Kabushiki Kaisha. Swirling device for stirling cycle engines. 4,639,212, 1-27-87, Cl. 431-183.000.

Watanabe, Tetsushi: *See*—
Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,635,741, Cl. 180-79.100.
Morishita, Mitsuharu; Hara, Tadayuki; Kohge, Shinichi; Watanabe, Tetsushi; and Ikari, Yasuki, 4,666,010, Cl. 180-79.100.

Watanabe, Tetsuzbu: *See*—
Tanaka, Jouji; Watanabe, Tetunobu; Tanimoto, Yoshiji; and Okumura, Minoru, 4,641,337, Cl. 379-162.000.

Watanabe, Tokisuke; Kitaoka, Shinji; and Suwa, Yoshio, to Mitsubishi Gas Chemical Company, Inc. Process for the preparation of maleic anhydride. 4,658,042, 4-14-87, Cl. 549-257.000.

Watanabe, Tokumi: *See*—
Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, 4,638,710, Cl. 84-1.260.
Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; 2nd Yoshida, Hiroshi, 4,683,795, Cl. 84-1.260.
Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, 4,701,872, Cl. 364-718.000.

Watanabe, Tomoyuki; Shigematsu, Takashi; Tokoro, Setsuo; and Hayashi, Takashi, to Toyota Jidosha Kabushiki Kaisha. Method and apparatus for controlling an electromagnetic clutch for use on a vehicle. 4,715,482, 12-29-87, Cl. 192-0.032.

Watanabe, Tomoyuki: *See*—
Okabe, Takahiro; Hayashi, Makoto; Morisuye, Katuhiro; Watanabe, Tomoyuki; Washio, Katsuyoshi; Ogura, Setsuo; Furihata, Makoto; and Kondo, Shizuo, 4,697,102, Cl. 307-454.000.
Shigematsu, Takashi; Watanabe, Tomoyuki; Tokoro, Setsuo; and Sawada, Dansaku, 4,715,258, Cl. 74-866.000.
Tokoro, Setsuo; Shigematsu, Takashi; and Watanabe, Tomoyuki, 4,673,378, Cl. 474-18.000.
Washio, Katsuyoshi; Hayashi, Makoto; Watanabe, Tomoyuki; Okabe, Takahiro; and Norisuye, Katuhiro, 4,694,321, Cl. 357-48.000.

Watanabe, Tooru: *See*—
Nakazawa, Akira; and Watanabe, Tooru, 4,699,595, Cl. 439-676.000.

Watanabe, Toru, to Kabushiki Kaisha Toshiba. Apparatus for carrying out dry etching. 4,659,449, 4-21-87, Cl. 204-298.000.

Watanabe, Toshiaki, to Aisin Seiki Kabushiki Kaisha. Wiper apparatus for vehicles. 4,698,872, 10-13-87, Cl. 15-250.200.

Watanabe, Toshiaki: *See*—
Morinaka, Yasuhiro; Iseki, Katsuhiko; Kanayama, Toshiji; Watanabe, Toshiaki; and Nishi, Hiroyoshi, 4,668,677, Cl. 514-248.000.

Watanabe, Toshihiro; and Meguro, Hiroshi, to Sony Corporation. Magnetic tape cassette with magnetic tape protective closure and bias means therefor. 4,714,213, 12-22-87, Cl. 242-198.000.

Watanabe, Toshinori; and Noguchi, Ichiro, to Alps Electric Co., Ltd. Magnetic head assembly including a leaf spring. 4,646,185, 2-24-87, Cl. 360-121.000.

Watanabe, Toshinori; Masuishi, Tetsuya; Sasaki, Koji; Haruna, Koichi; and Horie, Noboru, to Hitachi, Ltd. Method and system of circuit pattern understanding and layout. 4,651,284, 3-17-87, Cl. 364-491.000.

Watanabe, Toshinori; Sasaki, Koji; Yasunobu, Chizuko; Izuka, Yumiko; Nagai, Yoshiaki; Yamanaka, Toshiro; Yamakoshi, Minoru; and Tanaka, Takashi, to Hitachi, Ltd. Automatic layout planner and a method for automatically creating a layout plan. 4,700,317, 10-13-87, Cl. 364-488.000.

Watanabe, Toshio, to Matsushita Electric Industrial Co., Ltd. Snap fitted push-button switch actuator assembly. 4,689,455, 8-25-87, Cl. 200-340.000.

Watanabe, Toshio; Tsutsui, Fiji; and Tsunoda, Arihiro, to Mita Industrial Co., Ltd. Optical unit holding device for copying machines. 4,710,018, 12-1-87, Cl. 355-8.000.

Watanabe, Toshio: *See*—
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,677,191, Cl. 528-361.000.
Tanaka, Motoaki; Ogawa, Yasuaki; Miyagawa, Tsutomu; and Watanabe, Toshio, 4,683,288, Cl. 528-361.000.

Watanabe, Toshiro; Ohzeki, Minoru; and Toyama, Takashi, to Sony Corporation. Video projector type television receiver. 4,646,143, 2-24-87, Cl. 358-60.000.

Watanabe, Toshiyasu: *See*—
Isogai, Nobuo; Hosokawa, Motoyuki; Okawa, Takashi; Wakui, Natsuki; and Watanabe, Toshiyasu, 4,650,911, Cl. 568-902.000.

Watanabe, Tsunehiro: *See*—
Kunishi, Kosuke; Mikada, Hiroyuki; and Watanabe, Tsunehiro, 4,677,649, Cl. 375-122.000.

Watanabe, Tsunenori: *See*—
Kadogawa, Kouji; and Watanabe, Tsunenori, 4,691,398, Cl. 12-77.000.

Watanabe, Tsutomu, Saya, Tsutomu; Takashima, Hiroshi; Someya, Ryoichi; and Kobayashi, Hiroaki, to Mabuchi Motor Co., Ltd. Miniature motor with frangible magnet retaining boss. 4,677,330, 6-30-87, Cl. 310-154.000.

Watanabe, Tsutomu: *See*—
Kawakatsu, Akira; Watanabe, Tsutomu; and Yuge, Yoji, 4,652,789, Cl. 313-112.000.

Watanabe, Tsuyoshi: *See*—
Hashimoto, Masahiro; Watanabe, Tsuyoshi; and Wada, Kenichi, 4,639,886, Cl. 364-736.000.

Watanabe, Yasuhiko: *See*—
Moritaka, Shintaro, deceased; Watanabe, Yasuhiko; and Nishimura, Motoyuki, 4,687,669, Cl. 426-72.000.

Watanabe, Yasumasa: *See*—
Inaba, Hirofumi; and Watanabe, Yasumasa, 4,649,315, Cl. 313-325.000.

Watanabe, Yasuo: *See*—
Narita, Hirokazu; Konishi, Yoshinori; Nitta, Jun; Misumi, Shunjiro; Nagaki, Hideyoshi; Kitayama, Isao; Nagai, Yoriko; Watanabe, Yasuo; Matsubara, Nobuyuki; Minami, Shinzaburo; and Saikawa, Isamu, 4,698,352, Cl. 514-339.000.
Sadaki, Hiroshi; Narita, Hirokazu; Imaizumi, Hiroyuki; Konishi, Yoshinori; Inaba, Takihiro; Hirakawa, Tatsuo; Taki, Hideo; Tai, Masaru; Watanabe, Yasuo; and Saikawa, Isamu, 4,673,738, Cl. 540-222.000.

Watanabe, Yasushi: *See*—
Watanabe, Masamichi; and Watanabe, Yasushi, 4,677,538, Cl. 361-414.000.

Watanabe, Masamichi; and Watanabe, Yasushi, 4,691,188, Cl. 338-307.000.

Watanabe, Yoji; Morimura, Toshio; and Toyoda, Yukio, to Showa Denko Kabushiki Kaisha. Apparatus for thermal cracking of or heating of hydrocarbons. 4,692,313, 9-8-87, Cl. 422-241.000.

Watanabe, Yoshiaki; Morimoto, Shigeo; Goi, Masami; Mitsukuchi, Morihiro; Adachi, Takashi; Nakagami, Jozi; Asaka, Toshifumi; Eguchi, Tadashi; and Sota, Kaoru, to Taisho Pharmaceutical Co., Ltd. Method for selective methylation of erythromycin A derivatives. 4,672,109, 6-9-87, Cl. 536-7.200.

Watanabe, Yoshiaki; Yokoo, Chihiro; Goi, Masami; Onodera, Akira; Murata, Mitsuo; Fukushima, Hiroshi; and Sota, Kaoru, to Taisho Pharmaceutical Co., Ltd. Cephalosporin derivatives. 4,699,981, 10-13-87, Cl. 540-227.000.

Watanabe, Yoshiaki: *See*—
Itoh, Katsuhisa; Watanabe, Yoshiaki; Nakamura, Eiji; and Toyoshima, Masayasu, 4,684,448, Cl. 204-71.000.
Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Kashimura, Masato; Watanabe, Yoshiaki; and Sota, Kaoru, 4,670,549, Cl. 536-7.400.
Morimoto, Shigeo; Adachi, Takashi; Asaka, Toshifumi; Watanabe, Yoshiaki; and Sota, Kaoru, 4,680,386, Cl. 536-7.400.
Yamada, Toshiro; Fujisawa, Hiroshi; Goto, Kunaki; Morimoto, Shigeo; Adachi, Takashi; and Watanabe, Yoshiaki, 4,668,776, Cl. 536-7.400.

Watanabe, Yoshihiko: *See*—
Aoyagi, Yoshiro; Kimura, Toshiyuki; Nunuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Keiichi; Haeno, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77.100.
Shimazaki, Toru; Watanabe, Yoshihiko; and Iwaoka, Hideto, 4,700,138, Cl. 324-322.000.

Watanabe, Yoshihiro: *See*—
Nishino, Atsushi; Ikeda, Masaki; Watanabe, Yoshihiro; and Hiraka, Masahiro, 4,694,573, Cl. 29-846.000.

Watanabe, Yoshimi; Umeoka, Norihiro; and Kuroda, Hiroshi, to Kabushiki Kaisha Toshiba. Lamp unit. 4,661,890, 4-28-87, Cl. 362-217.000.

Watanabe, Yoshimi; and Yamashita, Kazuya, to Honda Giken Kogyo Kabushiki Kaisha. Outboard engine structure. 4,684,351, 8-4-87, Cl. 440-89.000.

Watanabe, Yoshimoto: *See*—
Ando, Shinji; Ohtaguro, Masami; Masuda, Takayoshi; and Watanabe, Yoshimoto, 4,713,245, Cl. 424-438.000.

Watanabe, Yoshinori: *See*—
Sasaki, Shinji; Shimoyama, Yujiro; and Watanabe, Yoshinori, 4,668,849, Cl. 200-291.000.
Sasaki, Shinji; Shimoyama, Yujiro; and Watanabe, Yoshinori, 4,710,600, Cl. 200-291.000.

Watanabe, Yoshio: *See*—
Furuya, Nobuaki; Nakayama, Yasuhiko; and Watanabe, Yoshio, 4,672,494, Cl. 360-125.000.
Kato, Yasuo; Ono, Tetsuo; Watanabe, Yoshio; Murayama, Seiichi; Mikoshiba, Shigeo; and Matsuno, Hiromitsu, 4,697,121, Cl. 313-595.000.
Kato, Yasuo; Harada, Kunio; Kubota, Shigeo; Watanabe, Yoshio; and Murayama, Seiichi, 4,715,054, Cl. 378-122.000.
Ogawa, Soichiro; and Watanabe, Yoshio, 4,682,080, Cl. 315-209.00R.
Ono, Yoshinobu; and Watanabe, Yoshio, 4,685,551, Cl. 198-346.200.

Watanabe, Yoshitaka; Mamiya, Toshiharu; Ishikawa, Tadashi; and Endo, Takashi, to Canon Kabushiki Kaisha. Recording apparatus and cassette for recording medium. 4,698,650, 10-6-87, Cl. 346-134.000.

Watanabe, Yoshitaka; Sakurada, Nobuaki; Kawamura, Hideaki; and Sato, Yuichi, to Canon Kabushiki Kaisha. Method for forming pictures. 4,713,746, 12-15-87, Cl. 346-1.100.

Watanabe, Yoshitaka: *See*—
Kawamura, Hideaki; Sakurada, Nobuaki; Sato, Yuichi; and Watanabe, Yoshitaka, 4,713,701, Cl. 358-298.000.
Yamamoto, Mitsuru; Sakurada, Nobuaki; and Watanabe, Yoshitaka, 4,714,935, Cl. 346-140.00R.

Watanabe, Yoshiteru, to Kabushiki Kaisha Saura Keiki Seisakusho. Magnetometer direction measuring system requiring no external compass. 4,634,978, 1-6-87, Cl. 324-253.000.

Watanabe, Yoshiyuki; and Shibata, Yukio, to Fuji Photo Film Co., Ltd. Overriding loading door for a magnetic recording/reproducing apparatus. 4,686,593, 8-11-87, Cl. 360-97.000.

Watanabe, Youichi, to Canon Kabushiki Kaisha. Printer. 4,689,528, 8-25-87, Cl. 318-594.000.

Watanabe, Youichirou: *See*—
Isoda, Tetsuo; Watanabe, Youichirou; Aoki, Mitsuo; and Nakayama, Nobuhiro, 4,672,016, Cl. 430-108.000.

Watanabe, Youji: *See*—
Sako, Shizuka; Amaike, Kanctoshi; and Watanabe, Youji, 4,703,431, Cl. 364-470.000.

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Watanabe, Yukio: *See*—
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Motegi, Nawoto; Watanabe, Yukio; Shimada, Naohiro; and Okajima, Masaki, 4,691,321, Cl. 372-46.000.

Watanabe, Yutaka: *See*—
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Watanabe, Yuuji, to Kuroda Precision Industries, Ltd. Tool holding apparatus having cutting edge moving function. 4,676,127, 6-30-87, Cl. 82-1.200.

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Chiyoma, Hitoshi; Watanabe, Zensaku; and Nakagawa, Masahiro, 4,679,088, Cl. 358-213.180.

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Ito, Hiroshi; Kugo, Masaru; and Watanate, Sizuhisa, 4,697,888, Cl. 350-336.000.

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Tachikawa, Hiromichi; Yokoya, Hiroaki; Watarai, Syu; and Kitatani, Katuzi, 4,681,832, Cl. 430-115.000.

Watari, Masafumi: *See*—
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Watari, Masao. Continuous speech recognition system. 4,667,341, 5-19-87, Cl. 381-43.000.

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Watari, Toshihiko; and Umeta, Junzo, to NEC Corporation. High density LSI package for logic circuits. 4,652,970, 3-24-87, Cl. 361-385.000.

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Wataya, Seiji, to Mitsubishi Denki Kabushiki Kaisha. Fuel injection control system for internal combustion engine. 4,702,214, 10-27-87, Cl. 123-488.000.

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DeLoach, Anthony, 4,682,613, Cl. 134-58.00R.

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Bertoglio, Guido, 4,712,360, Cl. 53-567.000.

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Abinett, Raymond E., 4,648,746, Cl. 405-184.000.
Hoyland, Garry, 4,675,116, Cl. 210-709.000.
Robbins, Brian A., 4,634,313, Cl. 405-184.000.

Water Sentry, Inc.: *See*—
Weintraub, Marvin H.; Bernier, Donald R.; and Cameron, Larry, 4,693,419, Cl. 239-63.000.

Water Services of America, Inc.: *See*—
Voith, Donald J.; and Someah, Kaveh S., 4,643,248, Cl. 165-95.000.
Voith, Donald J., 4,653,537, Cl. 137-625.430.

Water Soft, Inc.: *See*—
Chandler, James W.; and Chandler, William D., 4,659,463, Cl. 210-202.000.

ter Systems Development Corporation. *See*—
Malson, William S.; and Sharpe, John W., 4,714,550, Cl. 210-244.000.

terbury, Charles A.: *See*—
Rodgers, James L.; and Waterbury, Charles A., 4,672,154, Cl. 178-19.000.

terbury Cos., Inc.: *See*—
Mahoon, M. Ted, 4,652,126, Cl. 356-244.000.

terbury, L. David: *See*—
Clark, Robin D.; and Waterbury, L. David, 4,642,378,, Cl. 564-51.000.

tercraft Offshore Canada Ltd.: *See*—
Rea, Kenneth A.; and Reynolds, Alan H., 4,645,023, Cl. 180-9.320.

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terloo Industries, Inc.: *See*—
Oltman, John P.; Sulentic, Donald N.; and Purchase, Richard D., 4,714,158, Cl. 206-349.000.
Sevey, Douglas, 4,681,381, Cl. 312-333.000.

terloo, Thomas L.: *See*—
Frank, Robert G.; Claassen, George R.; Waterloo, Thomas L.; Schultz, Stephen J.; and Fecik, Michael T., 4,711,653, Cl. 65-106.000.

terman, James W.: *See*—
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terman, John K., to Raytheon Company. Traveling wave tube and its method of construction. 4,695,766, 9-22-87, Cl. 315-3.500.

ters, Charles M. Flexible blanket. 4,683,156, 7-28-87, Cl. 428-52.000.

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ters, Fleming A., to Otis Engineering Corporation. Completion apparatus and method for gas lift production. 4,682,656, 7-28-87, Cl. 166-372.000.

ters, Fleming A.: *See*—
Rumbaugh, William D.; and Waters, Fleming A., 4,667,736, Cl. 166-65.100.

ters Instruments, Inc.: *See*—
Burton, Thomas A., 4,662,890, Cl. 623-66.000.
Burton, Thomas A., 4,665,912, Cl. 128-303.00R.

ters, Jean B.; Garrison, Alton F.; and Treat, Richard C., to Med-Con of Georgia, Inc. Combination hospital bed and surgical table. 4,669,136, 6-2-87, Cl. 5-66.000.

ters, Larry G. Method and apparatus for utilizing waste heat in hot water heaters. 4,699,091, 10-13-87, Cl. 122-20.00A.

ters, Mark H.; and Whiteman, Robert N., Jr., to AMP Incorporated. Insert retention members for connectors. 4,709,973, 12-1-87, Cl. 439-78.000.

ters, Mark H.: *See*—
Myers, Earl C.; Shirk, Michael E.; and Waters, Mark H., 4,689,723, Cl. 361-424.000.

ters, Michael A., to Application Engineering Corporation. Passive mold cooling and heating system. 4,680,001, 7-14-87, Cl. 425-144.000.

ters, Oran G.; and Chandler, Larry G., to John D. Hollingsworth on Wheels, Inc. Card wire winding tool and method. 4,643,367, 2-17-87, Cl. 242-7.210.

ters, Peter J.: *See*—
Evans, Neil A.; Leaver, Ian H.; Rosevear, Judi; Waters, Peter J.; and Wilshire, John F. K., 4,668,235, Cl. 8-115.580.
Evans, Neil A.; Milligan, Brian; and Waters, Peter J., 4,698,064, Cl. 8-128.00R.

Waters, Roger D.; Cox, John E.; and Swofford, Rodney W., to Brown International Corporation. Method and apparatus for automatically controlling juice finishing machine. 4,665,816, 5-19-87, Cl. 100-38.000.

Waterston, John W.: *See*—
Olson, Douglas R.; Harness, James R.; and Waterston, John W., 4,639,419, Cl. 435-5.000.

Waterworth, John R., to Ferranti plc. Digital data storage apparatus. 4,638,454, 1-20-87, Cl. 364-900.000.

Waterworth, John R., to Ferranti, plc. Data compression system. 4,701,745, 10-20-87, Cl. 340-347.0DD.

Wathelet, Daniel, to Thomson-CGR. Tilting examination frame. 4,650,172, 3-17-87, Cl. 269-323.000.

Wathen, Boyd J.: *See*—
Stromquist, Donald M.; and Wathen, Boyd J., 4,643,765, Cl. 149-60.000.

Wathen, William B.: *See*—
Harborne, Eric G.; and Wathen, William B., 4,665,814, Cl. 99-571.000.

Watjen, Frank; Engelstoft, Mogens; Hansen, John B.; and Jensen, Leif H., to A/S Ferrosan. Oxadiazolyl imidazobenzodiazepine derivatives pharmaceutical compositions thereof, and method of treating therewith. 4,670,433, 6-2-87, Cl. 514-210.000.

Watjen, Frank: *See*—
Engelstoft, Mogens; Honore, Tage; Watjen, Frank; Petersen, Erling N.; and Huth, Andreas, 4,645,773, Cl. 514-292.000.

Watjen, John P., to SRI International. Eddy current probe and method for flaw detection in metals. 4,675,605, 6-23-87, Cl. 324-240.000.

Watjer, Sheldon J.; and Boerema, Edward T., to Prince Corporation. Mobile telephone mount for a vehicle. 4,640,542, 2-3-87, Cl. 296-37.800.

Watjer, Sheldon J.; and Dykstra, Ronald A., to Prince Corporation. Sun shield system. 4,674,789, 6-23-87, Cl. 296-97.00R.

Watkins, Baxter R., to Rosenberg, Gordon W. Stair-climbing wheelchair with stair step sensing means. 4,674,584, 6-23-87, Cl. 180-8.200.

Watkins, Baxter R.: *See*—
Tiffin, Patrick J.; and Watkins, Baxter R., 4,671,369, Cl. 189-8.100.

Watkins, Bruce J.; Regan, Albert M.; Crager, Bruce L.; Fox, Gary L.; and Houlgrave, Robert C., to Hughes Tool Company. Integral buoyant riser. 4,648,747, 3-10-87, Cl. 405-195.000.

Watkins, Charles W., to Tuftco Corporation. Needle plate member for a staggered needle tufting machine. 4,658,739, 4-21-87, Cl. 112-80.300.

Watkins, Charles W.: *See*—
Frost, Stephen L.; and Watkins, Charles W., 4,671,194, Cl. 112-80.550.

Watkins, David R.; Kalfayan, Leonard J.; and Hewgill, Gregory S., to Union Oil Company of California. Acidizing method. 4,646,835, 3-3-87, Cl. 166-295.000.

Watkins, David R.: *See*—
Kalfayan, Leonard J.; Watkins, David R.; and Hewgill, Gregory S., 4,708,207, Cl. 166-295.000.

Watkins, Gerald J.: *See*—
Ngai, Chuck H.; and Watkins, Gerald J., 4,692,633, Cl. 307-269.000.

Watkins, Grant H.; and Staley, Lester K., to United States of America, Air Force. Low phase noise two port voltage controlled oscillator. 4,684,904, 8-4-87, Cl. 331-117.00R.

Watkins, Hiawatha P.: *See*—
Maurer, Hans W.; and Watkins, Hiawatha P., 4,670,102, Cl. 162-361.000.

Watkins, James D.; and Andreas, David W., to Golden Valley Microwave Foods Inc. Cooking bag with diagonal gusset seals. 4,691,374, 9-1-87, Cl. 383-104.000.

Watkins, James D.: *See*—
Cox, David H.; Andreas, David W.; and Watkins, James D., 4,642,434, Cl. 219-10.55E.

Watkins, James R., Jr.; and Huang, Ken T., to Motorola, Inc. Telephone hooking post and assembly. 4,683,585, 7-28-87, Cl. 379-426.000.

Watkins, Kay R.: *See*—
Daniel, Dale M.; and Watkins, Kay R., 4,712,542, Cl. 128-92.00V.

Watkins, Kirk W. Board game utilizing jigsaw puzzle. 4,669,734, 6-2-87, Cl. 273-157.00R.

Watkins, Ray R., Jr. Game board method. 4,651,996, 3-24-87, Cl. 273-271.000.

Watkins, Richard D.: *See*—
Hoffman, Louis S.; Bohmer, William; DeVito, Ralph J.; Langille, Brian R.; Watkins, Richard D.; Sanders, Charles B.; Kerch, Martha E.; and Shanko, Marc, 4,666,099, Cl. 242-55.530.

Watkins, Richard L., to Gates Corporation, The. Conductive elastomeric ink composition. 4,634,623, 1-6-87, Cl. 428-208.000.

Watkins, Richard L.: *See*—
Nemeth, Joseph C.; and Watkins, Richard L., 4,677,268, Cl. 200-159.00B.

Watkins, Robert W.: *See*—
Blythin, David J.; and Watkins, Robert W., 4,680,297, Cl. 514-295.000.

Watkins, Roger D.: *See*—
Farrea, John; and Watkins, Roger D., 4,667,515, Cl. 73-601.000.
Scott-Kestin, Colin B.; Pike, Roger B.; Watkins, Roger D.; Gillespie, Arthur B.; and Deighton, Michael O., 4,679,430, Cl. 73-290.00V.

Watkins, Tommy R., to Basler Electric Company. Apparatus for mounting printed circuit boards. 4,661,792, 4-28-87, Cl. 336-65.000.

Watmough, David J.; Mallard, John R.; and Hynynen, Kullervo, to University of Aberdeen, The; and Carlton Medical Products Ltd. Ultra sound hyperthermia device. 4,646,756, 3-3-87, Cl. 128-804.000.

Watmough, Robert R.; and Timmins, David H., to Tobac Curing Systems Limited. Machine for harvesting fruit and the like from the ground. 4,706,447, 11-17-87, Cl. 56-328.00R.

Watney, John P.: *See*—
Stadelmann, George A.; and Watney, John P., 4,675,760, Cl. 360-77.000.

Watrous, Donald L., to General Electric Company. Temperature-responsive circuit for load control apparatus. 4,675,777, 6-23-87, Cl. 361-106.000.

Watsco Inc.: *See*—
Moose, James R., 4,633,615, Cl. 49-425.000.

Watson, Alan R.; and Bryson, Michael A., to Electrovoice, Inc. Microphone with non-symmetrical directivity pattern. 4,685,137, 8-4-87, Cl. 381-174.000.

Watson, Barry, to Owens-Illinois, Inc. Method of making asymmetrical layered structures from polyalkylene sulfone resins. 4,666,644, 5-19-87, Cl. 264-41.000.

Watson, Barry K.: *See*—
Edwards, David J.; and Watson, Barry K., 4,704,611, Cl. 342-367.000.

Watson, Benjamin H. Apparatus for walking on water or land. 4,698,039, 10-6-87, Cl. 441-77.000.

Watson, Bruce W.: *See*—
Riner, Wilbur L.; and Watson, Bruce W., 4,640,989, Cl. 379-94.000.

Watson, Christopher A., to ITT Corporation. Capacitive angular position transducer. 4,636,792, 1-13-87, Cl. 340-870.370.

Watson, David: *See*—
McHale, Charles J.; Marrone, Joseph; and Watson, David, 4,639,872, Cl. 364-463.000.

Watson, David A., to NCR Corporation. Cable connector holder. 4,679,869, 7-14-87, Cl. 439-78.000.

Watson, David J., to English China Clays Lovering Pochin & Co. Limited. Monitoring deflocculated particles in a suspension. 4,653,914, 3-31-87, Cl. 356-344.000.

Watson, David N.: *See*—
Moosbrugger, Dennis S.; DiFazio, Joseph; and Watson, David N., 4,697,365, Cl. 40-546.000.

Watson, Donald C.: *See*—
Gaul, Craig S.; Knutson, Oliver M.; and Watson, Donald C., 4,649,674, Cl. 52-20.000.

Watson, Dwight D.: *See*—
Riley, John T.; and Watson, Dwight D., 4,701,183, Cl. 44-1.0SR.

Watson, Edward P., to Western Geophysical Company of America. Tank leakage detector. 4,638,662, 1-27-87, Cl. 73-302.000.

Watson, Edwin G., to RCA Corporation. Magnetic biasing apparatus for magneto-optic recording including a magnetic circuit. 4,701,894, 10-20-87, Cl. 369-13.000.

Watson, Francis M.: *See*—
Head, W. John; and Watson, Francis M., 4,701,669, Cl. 315-155.000.

Watson, Frank K. Carrying case for insulin syringes. 4,657,138, 4-14-87, Cl. 206-366.000.

Watson, Gary Q., to Morrow Manufacturing Co., Inc. Earth anchor. 4,644,712, 2-24-87, Cl. 52-162.000.

Watson, George A.; Co, Ramon S.; Fuhrman, James L.; and Avella, Frank, to Rockwell International Corporation. Frequency multiplexed telephone system. 4,706,244, 11-10-87, Cl. 370-69.100.

Watson, Gordon. Pushing apparatus, and methods of constructing and utilizing same. 4,709,492, 12-1-87, Cl. 37-232.000.

Watson, I. Wesley: *See*—
Feinzig, David S.; Watson, I. Wesley; and Hahn, Clifford H., 4,676,946, Cl. 376-289.000.

Watson Industries Inc.: *See*—
Watson, William S., 4,674,331, Cl. 73-505.00/0.

Watson, James H. P., to Cyrogenic Consultants Limited. Magnetic separator. 4,668,383, 5-26-87, Cl. 209-216.000.

Watson, James H. P.: *See*—
Gibbs, Dudley F.; Greenbalgh, Marilyn E.; Watson, James H. P.; Yeo, Richard G.; and Ellwood, Derek C., 4,701,261, Cl. 210-606.000.

Watson, Jeremy P., to Smiths Industries Public Limited Company. Tracheostomy tube assemblies. 4,649,913, 3-17-87, Cl. 128-207.140.

Watson, Jesse E., Jr. Identification tag. 4,680,882, 7-21-87, Cl. 40-5.000.

Watson, John A.; and Havel, Christopher M. Enzymatic synthesis of (S)3-hydroxy-3-methylglutaryl coenzyme A. 4,665,026, 5-12-87, Cl. 435-130.000.

Watson, John C.; and Chan, Bing G., to Northern Telecom Limited. Overload protector for a telephone set. 4,661,881, 4-28-87, Cl. 361-104.000.

Watson, John H., to Sun Hydraulics, Inc. Dust control fluids spray arm. 4,714,293, 12-22-87, Cl. 299-12.000.

Watson, John N., to Westinghouse Electric Corp. Remote control switching of television sources. 4,638,359, 1-20-87, Cl. 358-147.000.

Watson, John T.; and Lucy, Robert F., to United States of America, Air Force. Universal wavefront sensor apparatus. 4,667,103, 5-19-87, Cl. 250-332.000.

Watson, Joseph L.: *See*—
Tiechurst, Roy M.; and Watson, Joseph L., 4,709,568, Cl. 72-201.000.

Watson, Keith G.; Bird, Graham J.; and Farquharson, Graeme J., to ICI Australia Limited. Herbicidal 5-(acylphenylcyclohexane-1,3-dione derivatives. 4,652,303, 3-24-87, Cl. 71-83.000.

Watson, Keith G.; and Farquharson, Graeme J., to ICI Australia Limited. Herbicidal 5-pyrimidylcyclohexan-1,3-dione derivatives. 4,659,362, 4-21-87, Cl. 71-92.000.

Watson, Keith G.; Garson, Lynette A.; Bird, Graham J.; Cross, Lindsay E.; and Farquharson, Graeme J., to ICI Australia Limited. Cyclohexenone derivatives and their herbicidal use. 4,666,510, 5-19-87, Cl. 71-103.000.

Watson, Keith G., to Imperial Chemical Industries PLC. Herbicidal cyclohexane-1,3-dione derivatives. 4,715,884, 12-29-87, Cl. 71-90.000.

Watson, Keith G.: *See*—
Bird, Graham J.; Farquharson, Graeme J.; and Watson, Keith G., 4,640,708, Cl. 71-98.000.
Bird, Graham J.; Farquharson, Graeme J.; Watson, Keith G.; and Whitelaw, Murray L., 4,664,693, Cl. 71-88.000.
Bird, Graham J.; Farquharson, Graeme J.; and Watson, Keith G., 4,680,400, Cl. 546-141.000.
Conway, Richard J.; Watson, Keith G.; and Farquharson, Graeme J., 4,704,157, Cl. 71-90.000.
Farquharson, Graeme J.; Watson, Keith G.; and Bird, Graham J., 4,639,267, Cl. 71-98.000.
Farquharson, Graeme J.; Watson, Keith G.; and Bird, Graham J., 4,643,763, Cl. 71-98.000.
Serban, Alexander; Watson, Keith G.; and Farquharson, Grame J., 4,655,819, Cl. 71-92.000.

Watson, Kenneth E.; and Sharp, Keith W., to NL Industries, Inc. Liquid polymer containing compositions for thickening aqueous systems. 4,670,164, 6-2-87, Cl. 252-8.511.

Watson, Martin J., to Metal Box p.l.c. Apparatus for heat-setting a tubular article of crystallizable polymer. 4,711,624, 12-8-87, Cl. 425-384.000.

Watson, Michael H.: *See*—
Day, George D.; Flack, John K.; Golledge, Ian; Hillary, Christopher J.; Pike, John V.; and Watson, Michael H., 4,640,485, Cl. 248-422.000.

Watson, Milton R.; Seeberger, F. G., Jr.; and Lockerd, Robert M., to Texas Instruments Incorporated. Product information system using hand-held unit with code reader. 4,654,514, 3-31-87, Cl. 235-385.000.

Watson, Nigel S. Knock-down outdoor coaster. 4,659,049, 4-21-87, Cl. 248-346.100.

Watson, Norman F., to EKA Group Ltd. Recovery and towing vehicle. 4,640,660, 2-3-87, Cl. 414-563.000.

Watson, Pat: *See*—
Oliver, Jim; and Watson, Pat, 4,641,755, Cl. 211-60.100.

Watson, Richard C.: *See*—
Melanson, Lionel J.; and Watson, Richard C., 4,713,529, Cl. 219-541.000.

Watson, Robert D., to Atlantic Richfield Company. Portable luminescence sensor. 4,708,475, 11-24-87, Cl. 356-417.000.

Watson, Robert K.: *See*—
Cooper, James; and Watson, Robert K., 4,689,076, Cl. 75-10.610.

Watson, Robert L., to Weyerhaeuser Company. Shipping and display container. 4,638,941, 1-27-87, Cl. 229-104.000.

Watson, Roger J.: *See*—
George, Henry J.; Krzyzek, Richard A.; Enquist, Lynn W.; and Watson, Roger J., 4,673,641, Cl. 435-68.000.

Watson, Troy T.: *See*—
Betterton, Joseph T.; Dykoski, Alan W.; Glover, Alfred H.; Lawless, Daniel F.; McKee, William D.; and Watson, Troy T., 4,706,707, Cl. 137-565.000.

Watson, Vincent O. Expansion roof. 4,648,217, 3-10-87, Cl. 52-90.000.

Watson, W. Gary: *See*—
Young, Kenneth P.; Tyler, Derek E.; Cheskis, Harvey P.; and Watson, W. Gary, 4,709,746, Cl. 164-485.000.

Watson, Wayne R.; and Morse, Howard E. Bottle holder. 4,666,197, 5-19-87, Cl. 294-31.200.

Watson, William K. Heterodyne system for electric power generation. 4,684,813, 8-4-87, Cl. 290-4.00A.

Watson, William S., to Watson Industries Inc. Angular rate sensor. 4,674,331, 6-23-87, Cl. 73-505.000.

Watt, Brian J.; Bhula, Dilipkumar N.; and Birdy, Jal N., to Chevron Research Company. Elastomeric seal for a removable bottom founded structure. 4,695,197, 9-22-87, Cl. 405-224.000.

Watt, Brian J.: *See*—
Birdy, Jal N.; Watt, Brian J.; and Chen, Jade, 4,655,642, Cl. 405-217.000.

Watt, Dwayne B.; and Eversole, Brad K., to J. I. Case Company. Agricultural implement with elevation control mechanism. 4,660,842, 4-28-87, Cl. 280-43.230.

Watt, Richard L., to Weber-Knapp Company. Adjustable keyboard supporting mechanism. 4,644,875, 2-24-87, Cl. 108-93.000.

Watt, Robert J.; Obst, Brian W.; and Skinner, Raymond N., to Quaker Products Australia Limited. Apparatus for rolling up a pastry layer and a separator sheet. 4,666,391, 5-19-87, Cl. 425-122.000.

Watt-Smith, Stephen R., to Dentsply, Ltd. Anesthetic methods for mammals. 4,659,714, 4-21-87, Cl. 514-260.000.

Watt Watcher, Inc., The: *See*—
Cameron, Maclyn C., Jr.; Hu, Charles C.; and Mix, Jerome M., 4,661,720, Cl. 307-117.000.

Watteredge-Uniflex, Inc.: *See*—
Kasper, James J.; and Jeffreys, John H., 4,640,982, Cl. 174-75.00R.

Watterson, D. Martin: *See*—
Van Eldik, Linda J.; Watterson, D. Martin; Erickson, Bruce W.; and Fok, Kam-Fook, 4,716,150, Cl. 514-14.000.

Watteyne, Thierry L.: *See*—
Law, Simon M.; Watteyne, Thierry L.; and Tran, Dung N., 4,667,179, Cl. 340-347.0DA.

Watthey, Jeffrey W. H., to CIBA-GEIGY Corporation. Propylamine derivatives. 4,692,469, 9-8-87, Cl. 514-651.000.

Wattier, James B.: *See*—
Lindgren, James R.; Thurgood, Brian E.; and Wattier, James B., 4,703,885, Cl. 228-263.150.

Wattley, Mark D., to General Electric Company. Clamp assembly. 4,715,197, 12-29-87, Cl. 62-515.000.

Watts, Arun: *See*—
Bagaglio, Giancarlo; Assche, Jan V.; and Watts, Arun, 4,678,513, Cl. 106-38.220.

Watts, Bruce N.: *See*—
Palin, Philip R.; and Watts, Bruce N., 4,699,186, Cl. 141-2.000.

Watts, Charles H.: *See*—
Tripp, Robert R.; and Watts, Charles H., 4,658,319, Cl. 360-11.100.

Watts, Claude H. Investment casting method and stucco therefor. 4,689,081, 8-25-87, Cl. 106-38.400.

Watts, David L. Heavy metal separator. 4,715,949, 12-29-87, Cl. 209-17.000.

Watts, George T. Irrigation-evacuator surgical implement with displaceable valve. 4,676,777, 6-30-87, Cl. 604-33.000.

Watts, John D., to Lockwood Technical, Inc. Temperature controlled rotary screen printing apparatus. 4,693,179, 9-15-87, Cl. 101-119.000.

Watts, John R. Deadlock with key operated locking cylinder. 4,691,543, 9-8-87, Cl. 70-143.000.

Watts, John R. Pneumatic damper. 4,707,882, 11-24-87, Cl. 16-66.000.

Watts, Lewis W., Jr.: *See*—
Marquis, Edward T.; Watts, Lewis W., Jr.; and Yeakey, Ernest L., 4,661,272, Cl. 252-32.70E.

Watts, Mark W.: *See*—
Thaden, Robert C.; and Watts, Mark W., 4,691,289, Cl. 364-518.000.

Watts, Ralph E.: *See*—
Mallory, Charles W.; Watts, Ralph E.; Paladino, Joseph B.; Razor, John E.; Lilley, Arthur W.; Winston, Steven J.; and Stricklin, Billy C., 4,681,706, Cl. 252-633.000.

Watts, Ridley, Jr., to Nordson Corporation. Skin packaging machine with inclined oven. 4,656,816, 4-14-87, Cl. 53-511.000.

Watts, Robert J. Shape-defining articulated structures. 4,688,853, 8-25-87, Cl. 297-459.000.

Watts, William E.: *See—*
Tabereaux, Alton T.; Watts, William E.; and Wilson, Claude A., 4,654,130, Cl. 204-67.000.

Watvedt, Jorn, to Kverneland A/S. Reversible plough having a reversing and adjustment mechanism. 4,646,849, 3-3-87, Cl. 172-225.000.

Watzke, Franz; Lange, Gerhard; and Boy, Juergen, to Siemens Aktiengesellschaft. Gas discharge arrester and method of manufacture. 4,665,337, 5-12-87, Cl. 313-231.110.

Watzman, Barry A.: *See—*
Krause, Charles A.; Rajaram, Babu; and Watzman, Barry A., 4,703,419, Cl. 364-200.000.

Wauchope, Stirling G.; and McLean, Malcolm J., to Robertson Engineering (Thame) Limited. Lathe for generating aspherical surfaces. 4,679,471, 7-14-87, Cl. 82-12.000.

Wauer, Dieter; Plaschke, Herbert; Butz, Otto; and Ganser, Josef, to Agfa-Gevaert Aktiengesellschaft. Arrangement for and method of determining two or more superimposed film sheets. 4,652,742, 3-24-87, Cl. 250-223.00R.

Waugaman, John: *See—*
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Waugh, Arthur: *See—*
Lucey, Willard J.; and Waugh, Arthur, 4,687,911, Cl. 219-553.000.

Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, to Frymaster Corporation, The. Intelligent cooking appliance. 4,663,710, 5-5-87, Cl. 364-400.000.

Waugh, Gerald; Myers, Charley; Davis, John; and Sullivan, John, to Frymaster Corporation, The. Intelligent cooking appliance. 4,672,540, 6-9-87, Cl. 364-400.000.

Waugh, Robert E.; Nannig, Urban R.; and Rockwood, Clyde R., to D. L. Auld Company, The. Plastic-capped adhesive article and method for making same. 4,643,790, 2-17-87, Cl. 156-242.000.

Waugh, Robert E.; Nannig, Urban R.; and Rockwood, Clyde R., to D. L. Auld Company, The. Substrateless decorative embedded article and method of making. 4,645,556, 2-24-87, Cl. 156-242.000.

Waugh, Robert E.; Nannig, Urban R.; and Rockwood, Clyde R., to D. L. Auld Company, The. Method of making pressure sensitive adhesive tag or label stock. 4,716,052, 12-29-87, Cl. 427-147.000.

Waukesha Cutting Tools, Inc.: *See—*
Ebenhoch, Sebastian, 4,648,759, Cl. 408-59.000.

Waurig, Reiner: *See—*
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Wausau Metals Corporation: *See—*
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Wautier, Henri: *See—*
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Wave Power Industries, Ltd.: *See—*
Raichlen, Fredric; and Lee, Jin-Jen, 4,698,969, Cl. 60-502.000.

Wavecom: *See—*
Hoffman, Jerzy, 4,646,043, Cl. 335-255.000.

Wavetek Corporation: *See—*
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WaveTek International, Inc.: *See—*
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Fliervoet, Johannes H. M.; and Offringa, Oege R., 4,662,655, Cl. 285-24.000.
Gaikema, Gjalt M.; and Zylstra, Dirk, 4,689,936, Cl. 53-440.000.
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Herder, Kornelis, 4,636,190, Cl. 493-196.000.
Lodder, Bernhard; Overeijnder, Hans; and van Dongeren, Jan P., 4,634,844, Cl. 219-544.000.
Offringa, Oege R.; and Van Der Ploeg, Frederik, 4,675,965, Cl. 29-157.00T.

Wavre, Alain, to Charmilles Technologies S.A. EDM apparatus provided with means for holding a portion cut off from the workpiece. 4,661,678, 4-28-87, Cl. 219-69.00W.

Wawersig, Jurgen: *See—*
Meyer, Willibald; and Wawersig, Jurgen, 4,635,190, Cl. 365-200.000.

Wawra, Georg: *See—*
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Wawro, Thaddeus J.: *See—*
Mitchell, Charles A.; Wawro, Thaddeus J.; Whipple, Charles E.; and Wright, William E., Sr., 4,679,405, Cl. 62-285.000.

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Mead, Carver A.; and Wawrzynek, John C., 4,716,312, Cl. 307-475.000.

Waxman, Monroe H.: *See—*
Vanmeurs, Peter; Waxman, Monroe H.; and Vinegar, Harold J., 4,640,352, Cl. 166-245.000.
Vinegar, Harold J.; and Waxman, Monroe H., 4,644,283, Cl. 324-376.000.
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Waybright, George C.: *See—*
Haferl, Peter E.; Sutherland, Hugh F., II; Luz, David W.; McDonald, James A.; Waybright, George C.; and Willis, Donald H., 4,682,085, Cl. 315-371.000.

Waye, Jerome D.: *See—*
Greene, Franklin R.; Stern, Howard S.; and Waye, Jerome D., 4,640,273, Cl. 128-136.000.
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Wayland, J. Robert, Jr.: *See—*
Lee, David O.; Montoya, Paul C.; Murr, James F.; and Wayland, J. Robert, Jr., 4,658,208, Cl. 324-61.00R.

Wayland, James R., Jr.: *See—*
Lee, David O.; Montoya, Paul C.; and Wayland, James R., Jr., 4,641,099, Cl. 324-323.000.

Wayman, Malcolm; and Mood, Geoffrey I., to British Gas Corporation. Replacing mains. 4,674,914, 6-23-87, Cl. 405-154.000.

Wayman, Malcolm; and Mood, Geoffrey I., to British Gas Corporation. Mains bursting tool. 4,693,404, 9-15-87, Cl. 225-103.000.

Wayman, Richard A.: *See—*
Large, David J.; Kostka, William G.; and Wayman, Richard A., 4,700,222, Cl. 358-86.000.

Wayne Graham & Associates International, Inc.: *See—*
Britton, James N., 4,644,285, Cl. 324-425.000.
Britton, James N., 4,705,331, Cl. 439-387.000.

Wayne, Robert J.: *See—*
Mongeon, Robert J.; Wayne, Robert J.; and Henschke, Robert W., 4,716,444, Cl. 356-05.000.

Wayne State University: *See—*
Brooks, Samuel C.; and Horwitz, Jerome P., 4,636,496, Cl. 514-182.000.
Brooks, Samuel C.; and Horwitz, Jerome P., 4,668,668, Cl. 514-178.000.
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Waynesboro Textiles, Inc.: *See—*
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Waynick, William R.: *See—*
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Wazaki, Yoshio: *See—*
Abe, Yoshiharu; Wazaki, Yoshio; and Ono, Tetsuya, 4,709,334, Cl. 364-431.050.
Otobe, Yutaka; Niikura, Masakatsu; and Wazaki, Yoshio, 4,697,421, Cl. 60-602.000.
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Weadock, Kevin: *See—*
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Weag, Ernst, & B. Bacher GmbH. Repeating copying machine. 4,664,510, 5-12-87, Cl. 355-86.000.

Weakliem, Herbert A.: *See—*
Van Dine, John E.; Weakliem, Herbert A.; Kiss, Zoltan; and Delahoy, Alan E., 4,675,467, Cl. 136-249.000.

Wean, Ellis. Training mouthpiece for brass instruments. 4,658,697, 4-21-87, Cl. 84-465.000.

Wean Industries, Inc.: *See—*
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Ginzburg, Vladimir B., 4,656,859, Cl. 72-243.000.
Ginzburg, Vladimir B.; and Ellis, Robert H., 4,656,905, Cl. 83-337.000.
Kerr, Robert L., 4,638,492, Cl. 373-74.000.
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Wean United Rolling Mills, Inc.: *See—*
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Ginzburg, Vladimir B., 4,674,310, Cl. 72-17.000.
Ginzburg, Vladimir B.; and Schmiedberg, Winfried F., 4,680,010, Cl. 432-148.000.
Ginzburg, Vladimir B.; and Jones, G. Brian, 4,680,978, Cl. 73-862.070.
Ginzburg, Vladimir B.; and Kaplan, Naum M., 4,683,744, Cl. 72-243.000.

Weapon Technology System R & D Ltd.: *See—*
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Wear, Frederick C.; and McKinney, Howard F., to McDonnell Douglas Corporation. Zoned microwave drying apparatus and process. 4,640,020, 2-3-87, Cl. 34-1.000.

Wearn, Richard B., Jr.: *See—*
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Weary, Frank G.: *See—*
Tegge, Bruce R.; Weary, Frank G.; and Sakaguchi, Yasuo, 4,713,413, Cl. 525-54.000.

Weasler Engineering, Inc.: *See—*
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Weast, David H.: *See—*
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Weatherby, Dennis W.: *See—*
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Weatherby, John H., to Warner Electric Brake & Clutch Company. Centrifugal spring clutch. 4,673,073, 6-16-87, Cl. 192-35.000.

Weatherchem Corporation: *See*—
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Weatherford, James R.; Kimmel, Arthur T.; and Wallach, Steven J. Physical cache unit for computer. 4,646,233, 2-24-87, Cl. 364-200.000.

Weatherford, James R.; and Kimmel, Arthur T. Read/modify/write circuit for computer memory operation. 4,663,728, 5-5-87, Cl. 364-900.000.

Weatherford/Lamb, Inc.: *See*—
Luth, Royse I., 4,684,314, Cl. 414-745.000.

Weatherford, Marion H.: *See*—
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Weatherford, Thomas M.: *See*—
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Weatherford U.S., Inc.: *See*—
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Schulze-Beckinghausen, Joerg E., 4,688,453, Cl. 81-57.180.
Stringfellow, William D., 4,711,301, Cl. 166-187.000.

Weatherford, Wayne M.: *See*—
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Weathers, Beryl D. Wood-form splice stake and carrier. 4,690,367, 9-1-87, Cl. 249-6.000.

Weathers, Gary G.; and Rice, Billy J., to Hughes Tool Company. Subsea hydraulic coupling. 4,637,470, 1-20-87, Cl. 166-344.000.

Weatherup, Clifford R.: *See*—
Maitland, Arthur; Menown, Hugh; Strudwick, Ian A.; Weatherup, Clifford R.; and Carman, Robert J., 4,698,5-6, Cl. 313-446.000.

Weaver, Charles S.; and Chittenden, Constance T., to SRI International. Method and apparatus for diagnosis of coronary artery disease. 4,649,929, 3-17-87, Cl. 128-680.000.

Weaver, Clarence M., Jr.: *See*—
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Weaver, David O., to D. O. Weaver and Company. Skin preparatory composition for use with electrocardiograph and electroencephalograph monitoring electrodes. 4,658,826, 4-21-87, Cl. 128-640.000.

Weaver, Douglas L., to Container Corporation of America. Dispensing container. 4,673,125, 6-16-87, Cl. 229-17.00B.

Weaver, Edward A., to Owens-Illinois Television Products Inc. Platinum corrosion reducing premelted oxide compositions for lead containing solder glasses. 4,696,909, 9-29-87, Cl. 501-75.000.

Weaver, Frank C., to Steart-Warner Corp. Submersible fuel pump and sender assembly. 4,651,701, 3-24-87, Cl. 123-509.000.

Weaver, Frank C., to Stewart-Warner Corporation. Condition sensing rheostat and method of manufacture. 4,700,170, 10-13-87, Cl. 338-68.000.

Weaver, Harry Z.: *See*—
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Weaver, James C., to Massachusetts Institute of Technology. Process for determining metabolism and growth of cells under various conditions. 4,643,968, 2-17-87, Cl. 435-32.000.

Weaver, James C.; and Pruett, Wayne P., to Eastman Kodak Co. Polyester compositions. 4,699,942, 10-13-87, Cl. 524-338.000.

Weaver, Jeffrey D.: *See*—
Curran, Jeffrey M.; Weaver, Jeffrey D.; and Weaver, Robert A., 4,703,741, Cl. 123-557.000.

Weaver, Jimmie D., Jr.: *See*—
Byrd, Audis C.; Morris, Robert J.; Black, Robert H.; and Weaver, Jimmie D., Jr., 4,661,321, Cl. 422-111.000.

Weaver, John D.: *See*—
Martin, Charles W.; Ezzell, Bobby R.; and Weaver, John D., 4,661,411, Cl. 428-421.000.

Weaver, Jon N., to Controlled Information Corporation. Electromagnetic surveillance system with improved signal processing. 4,675,657, 6-23-87, Cl. 340-551.000.

Weaver, Lloyd E. Pressurized downdraft gasifier. 4,659,340, 4-21-87, Cl. 48-76.000.

Weaver, Max A.; Clark, Gary T.; and Eller, Bill A., to Ciba-Geigy Corporation. Azo dyes from 5-amino-4-nitropyrazole compounds and aniline couplers. 4,650,861, 3-17-87, Cl. 534-777.000.

Weaver, Max A.; Moore, William H.; and Lum, Kin K., to Eastman Kodak Company. Yellow dye-donor element used in thermal dye transfer. 4,701,439, 10-20-87, Cl. 503-227.000.

Weaver, Max A.: *See*—
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Weaver, Richard A., to L. A. Weaver Co., Inc. Template and workpiece holder. 4,644,985, 2-24-87, Cl. 144-145.00R.

Weaver, Richard D.: *See*—
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Weaver, Robert A.: *See*—
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Weaver, Robert F., to Emhart Industries, Inc. Method of making a permanent magnet rotor for a synchronous motor. 4,641,422, 2-10-87, Cl. 29-598.000.

Weaver, Robert J.; Young, Ronald F.; and Crockett, Dennis D., to Lincoln Electric Company, The. High penetration, high speed, agglomerated welding flux. 4,683,011, 7-28-87, Cl. 148-26.000.

Weaver, Ronald C.; and Steensen, Wayne L., to Nabisco Brands, Inc. Sugar-free pudding composition and dry mix for preparation thereof. 4,663,177, 5-5-87, Cl. 426-579.000.

Weaver, Timothy O.: *See*—
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Weaver, William R., to Libbey-Owens-Ford Co. Window assembly and method of making the same. 4,662,113, 5-5-87, Cl. 49-404.000.

Weavers, Brian K., to RHP Group PLC. Ball bearing rings. 4,643,595, 2-17-87, Cl. 384-503.000.

Weavers, Mark W.: *See*—
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Web Systems, Inc.: *See*—
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Webasto-Werk W. Baier GmbH & Co.: *See*—
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Galtz, Ruediger; Goerlich, Dieter; and Reichensdoerfer, Alois, 4,688,718, Cl. 237-12.30C.
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Schaetzler, Walter; Schleicher, Bernhard; Igel, Richard; and Jardin, Hans, 4,699,421, Cl. 296-221.000.
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Sumida, Koji; and Kawasaki, Takeshi, 4,671,564, Cl. 296-214.000.
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Webb, Arthur L.: *See*—
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Webb, Brian C. Ground anchor and apparatus to set and remove same. 4,653,245, 3-31-87, Cl. 52-749.000.

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Webb, Bryan. Locking mechanism for magnetic tape. 4,635,789, 1-13-87, Cl. 206-53.000.

Webb, Bryant F.; and Bigelow, Donald O., to New Holland Inc. Baler stuffer mechanism. 4,656,938, 4-14-87, Cl. 100-189.000.

Webb, Charles A. Anti-snagging fish hook device. 4,674,225, 6-23-87, Cl. 43-43.400.

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Webb, Dale P., to Webb Manufacturing, Inc. Molded window assembly and transom support therefor. 4,642,955, 2-17-87, Cl. 52-204.000.

Webb, Daniel D., to Peninsula Plastics Co., Inc. Collapsable, reusable container system. 4,673,087, 6-16-87, Cl. 206-600.000.

Webb, Daniel D., to Peninsula Plastics Company, Inc. Nestable, stackable tote boxes. 4,685,567, 8-11-87, Cl. 206-506.000.

Webb, Daniel D.; and Prier, Donald G., to Dow Chemical Company, The. Flexible polyurethane foams prepared from poly(alkylene carbonate) polyols. 4,713,399, 12-15-87, Cl. 521-110.000.

Webb, David B.: *See*—
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Webb, Derrel D.: *See*—
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Webb, Floyd A. Radial arm saw positioner. 4,691,607, 9-8-87, Cl. 83-468.000.

Webb, Frederick A., to Consolidation Coal Co. Thermal dryer control system. 4,713,893, 12-22-87, Cl. 34-25.000.

Webb, Grandville S., Jr. Demountable carrier for mounting on vehicle. 4,640,658, 2-3-87, Cl. 414-462.000.

Webb, Ian R.; Taylor, Neil J. T.; and Taylor, William, to Taylor Kerr (Energy Products) Limited. Flexible pipe coupling. 4,671,541, 6-9-87, Cl. 285-112.000.

Webb, J. C.: *See*—
Litzkow, Carl A.; Webb, J. C.; and Masuda, Shuichi, 4,671,114, Cl. 73-587.000.

Webb, James E., Sr.; and Dunn, William F., to Dunn, William F. Automatic closing system for window blinds. 4,644,990, 2-24-87, Cl. 160-5.000.

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Leach, Eugene R.; Robbins, James A.; Helton, Steven B.; and Webb, Jeffrey J., 4,658,358, Cl. 364-418.000.

Webb, Jerry E.: *See*—
Clatfelter, Kenneth A.; Story, John D.; and Webb, Jerry E., 4,663,173, Cl. 426-281.000.
Clatfelter, Kenneth A.; and Webb, Jerry E., 4,675,947, Cl. 17-47.000.

Webb, Johannes A. V. Chemical compositions comprising (1) methyl methacrylate polymer (2) P.E. wax (3) fast-evaporating solvent and (4) slow-evaporating solvent. 4,703,077, 10-27-87, Cl. 524-462.000.

Webb, John D., Jr.; Hori, Roy Y.; and Simpson, George E., to Zimmer, Inc. Grooved prosthetic implant. 4,714,470, 12-22-87, Cl. 623-18.000.

Webb, John L.: *See*—
Pirwitz, Robert G.; and Webb, John L., 4,689,471, Cl. 219-216.000.

Webb, Louis H., III: *See*—
Pearl, David S., II; Webb, Louis H., III; and Kocell, Stephen B., 4,661,057, Cl. 431-243.000.

Webb Manufacturing, Inc.: *See*—
Webb, Dale P., 4,642,955, Cl. 52-204.000.

Webb, Maurice J.: *See*—
Thau, Lawrence W., Jr.; and Webb, Maurice J., 4,643,461, Cl. 285-112.000.

Webb, Michael A., to Schering Agrochemicals Limited. Pesticidal compositions employing stabilized amitraz. 4,710,512, 12-1-87, Cl. 514-431.000.

Webb, Michael B.: *See*—
Abou-Gharbia, Magid A.; Nielsen, Susan T.; and Webb, Michael B., 4,716,166, Cl. 514-265.000.

Webb, Monty F.: *See*—
Norris, Richard G.; Webb, Monty F.; and Le, Vinh Q., 4,685,120, Cl. 379-26.000.

Webb, Nathaniel; and Juzswik, David L., to United Technologies Automotive, Inc. Multiplex control system for memory seat or the like load. 4,706,194, 11-10-87, Cl. 364-424.000.

Webb, Nathaniel: *See*—
Juzswik, David L.; Webb, Nathaniel; and Floyd, William M., 4,698,748, Cl. 364-200.000.

Webb, Paul P., to RCA Inc. Avalanche photodiode and a method of making same. 4,700,209, 10-13-87, Cl. 357-13.000.

Webb, Paul P.: *See*—
Lightstone, Alexander W.; Webb, Paul P.; and McIntyre, Robert J., 4,654,678, Cl. 357-13.000.

Webb, Richard E.; and L'Hommedieu, Charles S., to W L G Technology. Ventilation tube swivel. 4,676,241, 6-30-87, Cl. 128-207.140.

Webb, Richard L.: *See*—
Murdock, Keith C.; and Webb, Richard L., 4,715,993, Cl. 260-380.000.

Webb, Robert D. Safe and efficient self-luminous microspheres. 4,677,008, 6-30-87, Cl. 428-35.000.

Webb, Roger J.: *See*—
Masters, Jeffery; and Webb, Roger J., 4,671,345, Cl. 165-9.300.
Masters, Jeffery; and Webb, Roger J., 4,671,346, Cl. 165-9.300.

Webb, Ronald J.: *See*—
Connell, Lawrence E.; and Webb, Ronald J., 4,710,724, Cl. 330-9.000.

Webb, Russell; and Hickman, John B., to W. P. Hickman Company. Roof edge construction. 4,641,476, 2-10-87, Cl. 52-60.000.

Webb, Stephen F.; and Merrick, Brian J., to British Gas Corporation. Sealing of a pipe-joint. 4,673,449, 6-16-87, Cl. 156-94.000.

Webb, Thomas A. Propeller checking. 4,642,901, 2-17-87, Cl. 33-530.000.

Webb, Thomas R.: *See*—
Hsu, Chien-Pin S.; and Webb, Thomas R., 4,659,774, Cl. 525-54.200.

Webb, Vertis C.: *See*—
Dines, David R.; and Webb, Vertis C., 4,653,682, Cl. 228-180.200.
Dines, David R.; and Webb, Vertis C., 4,693,408, Cl. 228-47.000.

Webb, Watt W.; and Ferguson, Daniel, to Cornell Research Foundation, Inc. Multidimensional vorticity measurement optical probe system. 4,664,513, 5-12-87, Cl. 356-28.000.

Webb, Winston S., to Honeywell Inc. Robot gripper. 4,696,501, 9-29-87, Cl. 294-86.400.

Webber, Bruce: *See*—
Wilson, John A.; Staniewicz, Robert J.; Webber, Bruce; and Allvey, George W., 4,664,287, Cl. 220-89.00A.

Webber, Gregory E.: *See*—
Rannigan, Robert C.; and Webber, Gregory E., 4,709,717, Cl. 134-199.000.

Webber, Robert C. Refrigerant expansion device. 4,633,681, 1-6-87, Cl. 62-511.000.

Webber, Ronald R. Container making device. 4,645,113, 2-24-87, Cl. 227-154.000.

Webber, Sandra: *See*—
Tartt, Evangeline; and Webber, Sandra, 4,637,076, Cl. 2-102.000.

Webber, Tim, to Spectra-Physics, Inc. Method and apparatus for monitoring laser processes. 4,663,513, 5-5-87, Cl. 219-121.00L.

Webcraft Technologies, Inc.: *See*—
Schoenleber, Donald W.; and Bosler, D. Mark, 4,657,612, Cl. 156-227.000.

Weber, Adolf; Strauss, Hans; and Bankel, Adolf, to Diehl GmbH & Co. Impact detonator with a detonator cap. 4,693,180, 9-15-87, Cl. 102-274.000.

Weber, Alfred; Wilke, Detlef; Kurzidim, Johannes; and Kennecke, Mario, to Schering Aktiengesellschaft. Process for the extraction of amino acids from an aqueous phase. 4,644,067, 2-17-87, Cl. 548-497.000.

Weber, Bernd: *See*—
Assel, Eugen; Dasbach, Burkhard; and Weber, Bernd, 4,699,594, Cl. 439-152.000.

Weber, Berthold; Giesenberg, Peter; and Steimel, Johannes, to Bodenseewerk Geratetechnik GmbH. Optical scanning device, particularly for seeker heads in target seeking missiles. 4,639,589, 1-27-87, Cl. 250-203.00R.

Weber, Charles A., to Bock Products. End cap for a tubular member. 4,678,011, 7-7-87, Cl. 138-96.00R.

Weber, Christian: *See*—
Rasshofer, Werner; Paul, Reiner; Seel, Klaus; and Weber, Christian, 4,703,100, Cl. 528-66.000.

Weber, Daniel B.: *See*—
Meador, A. Leon; and Weber, Daniel B., 4,676,424, Cl. 227-147.000.

Weber, David J.: *See*—
McGuire, Charles F.; Weber, David J.; and Steyaert, Gordon C., 4,712,024, Cl. 307-529.000.

Weber, Dietmar: *See*—
Barnicol-Ottler, Max; Loczenski, Martin; Mieschke, Norbert; Ott, Gerhard; Przybylski, Gerhard; Puff, Erich; and Weber, Dietmar, 4,654,476, Cl. 174-116.000.

Weber, Dolores; and Weber, Vincent. Pastry mould with movable rims. 4,655,430, 4-7-87, Cl. 249-172.000.

Weber, Donald J.: *See*—
DiPiazza, Philip S.; Lynn, Dale E.; and Weber, Donald J., 4,707,689, Cl. 340-706.000.

Weber, Donald L.: *See*—
Marian, Miklos; and Weber, Donald L., 4,636,361, Cl. 422-101.000.

Weber, Eckard; Sonders, Mark; and Keana, John F., to State of Oregon, acting by and through the Oregon State Board of Higher Education, acting for and on behalf of the Oregon Health Sciences University and the University of Oregon. Sigma brain receptor ligands and their use. 4,709,094, 11-24-87, Cl. 564-238.000.

Weber, Eugen: *See*—
Wright, Harry D.; Hale, John M.; and Weber, Eugen, 4,711,703, Cl. 204-1.00T.

Weber, Frank J., to Ralston Purina Company. Carton with pour spout. 4,684,058, 8-4-87, Cl. 229-17.00R.

Weber, Frank-Michael, to GERB Gesellschaft fur Isolierung mbH & Co., KG. Viscous damper having a conical plunger tube. 4,648,577, 3-10-87, Cl. 248-562.000.

Weber, Frederick C., to General Motors Corporation. Ball joint. 4,684,279, 8-4-87, Cl. 403-136.000.

Weber, Friedhelm: *See*—
Eisenberg, Helmut; von Heimburg, Henning; Weber, Friedhelm; Beste, Achim; and Vorderbruck, Dirk, 4,705,215, Cl. 238-349.000.

Weber, Gary C.: *See*—
Claypool, Mark P.; and Weber, Gary C., 4,653,628, Cl. 198-395.000.

Weber, Georg: *See*—
Eidenschink, Rudolf; Krause, Joachim; Hittich, Reinhard; Poetsch, Eike; Scheuble, Bernhard; Weber, Georg; and Pohl, Ludwig, 4,713,197, Cl. 252-299.610.
Fearon, Julie E.; Smith, Wendy E.; Gray, George W.; Lacey, David; Toyne, Kenneth J.; and Weber, Georg, 4,659,502, Cl. 252-299.610.
Hittich, Reinhard; Weber, Georg; Sucrow, Wolfgang; and Geschwinder, Peter, 4,693,841, Cl. 252-299.620.
Krause, Joachim; Romer, Michael; and Weber, Georg, 4,639,328, Cl. 252-299.610.
Krause, Joachim; Wachtler, Andreas; Hittich, Reinhard; Weber, Georg; and Scheuble, Bernhard, 4,704,227, Cl. 252-299.610.
Kreuzer, Franz-Heinrich; Eidenschink, Rudolf; and Weber, Georg, 4,678,283, Cl. 350-340.000.
Scheuble, Bernhard; Eidenschink, Rudolf; and Weber, Georg, 4,702,562, Cl. 350-350.00R.

Weber, Gerhard; and Schrader, Karlheinz. D-glucuronic acid-urea condensate preparation for smoothing human skin. 4,703,041, 10-27-87, Cl. 514-23.000.

Weber, Guiseppe F.: *See*—
Cohen, Noal; and Weber, Guiseppe F., 4,650,812, Cl. 514-456.000.

Weber, Gunter, to Neiman S.A. Cylinder lock. 4,658,610, 4-21-87, Cl. 70-252.000.

Weber, Gunter; Dicke, Hans-Rudolf; Vogelsgesang, Roland; Simm, Walter; and Brinkmeyer, Hermann, to Bayer Aktiengesellschaft. Thermoplastic processing of thermotropic liquid-crystalline polymers under the influence of electric fields. 4,668,448, 5-26-87, Cl. 264-22.000.

Weber, Gunter, to Linde Aktiengesellschaft. Process for cleaning a packed column. 4,687,496, 8-18-87, Cl. 55-73.000.

Weber, Gunter: *See*—
Kohler, Karl-Heinz; Lindner, Christian; Rempel, Dieter; Weber, Gunter; Ott, Karl-Heinz; and Binsack, Rudolph, 4,666,972, Cl. 524-504.000.

Weber, Hans: *See*—
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Weber, Hans-Leo: *See*—
Serini, Volker; Schulte, Bernhard; Waldenrath, Werner; Freitag, Dieter; Hucks, Uwe; Wank, Joachim; and Weber, Hans-Leo, 4,654,411, Cl. 528-176.000.
Weber, Hans-Ulrich: *See*—
Haas, Peter; Weber, Hans-Ulrich; Sommerfeld, Claus-Dieter; Giersig, Manfred; and Wiedermann, Rolf, 4,681,903, Cl. 521-167.000.
Weber, Heinrich; Lorenz, Kurt; and Dungs, Horst, to Carl Still GmbH & Co. KG, Firma. Method of cooling and gasifying retort coal. 4,662,895, 5-5-87, Cl. 48-210.000.
Weber, Heinrich; Lorenz, Kurt; and Dungs, Horst. Method for carbonizing cold-compacted briquettes. 4,683,030, 7-28-87, Cl. 201-6.000.
Weber, Helmut: *See*—
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Weber, Jakob: *See*—
Voggenthaler, Ludwig; Operschall, Hermann; and Weber, Jakob, 4,645,581, Cl. 204-275.000.
Weber, James J.: *See*—
Santangelo, Joseph G.; Weber, James J.; Sinclair, Richard G.; and Tenaglia, Richard D., 4,633,929, Cl. 164-34.000.
Santangelo, Joseph G.; Weber, James J.; and Sinclair, Richard G., 4,665,136, Cl. 525-523.000.
Weber, James L., to Rockwell International Corporation. Brake actuator. 4,690,253, 9-1-87, Cl. 188-72.700.
Weber, Jay B. Stackable chair with ganging structure. 4,655,504, 4-7-87, Cl. 297-239.000.
Weber, Jean: *See*—
Philipp, Peter R.; and Weber, Jean, 4,685,284, Cl. 57-295.000.
Weber, Jean-Claude: *See*—
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Weber, John B., and Covarrubias, Jesus T., to Norwich Eaton Pharmaceuticals, Inc. Furazolidone dosage form. 4,668,517, 5-26-87, Cl. 424-469.000.
Weber, John D.: *See*—
Saintsing, Barry L.; Clark, Douglas C.; and Weber, John D., 4,648,413, Cl. 131-336.000.
Weber, John W. Heat resistant and protective fabric and yarn for making the same. 4,670,327, 6-2-87, Cl. 428-257.000.
Weber, Joseph A.: *See*—
Fisher, Theodore F.; Hanson, Thomas C.; and Weber, Joseph A., 4,701,200, Cl. 62-27.000.
Hanson, Thomas C.; Fisher, Theodore F.; Weber, Joseph A.; and Pahade, Ravindra F., 4,701,201, Cl. 62-27.000.
Hanson, Thomas C.; Fisher, Theodore F.; and Weber, Joseph A., 4,710,212, Cl. 62-23.000.
Weber, Jurgen: *See*—
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Wissmann, Michael; Nickel, Hans; and Weber, Jurgen, 4,672,929, Cl. 123-179.00G.
Wissmann, Michael; Weber, Jurgen; and Nickel, Hans, 4,709,669, Cl. 123-149.00D.
Weber, Karl-Arnold; Buysch, Hans-Josef; Noble, Karl-Ludwig; and Traubel, Harro, to Bayer Aktiengesellschaft. Process for the production of light-stable, solvent-resistant polyurethane-urea elastomer coatings by reactive coating. 4,687,830, 8-18-87, Cl. 528-64.000.
Weber, Karl-Heinz; Schneider, Claus; Walther, Gerhard; Hinzen, Dieter; Kuhn, Franz J.; Lehr, Erich; Ensinger, Helmut; and Troger, Wolfgang, to Boehringer Ingelheim KG. 4-Aminocarbonylaminomethyl-1-benzylpyrrolidin-2-ones as nootropic agents and as agents for treating cerebral insufficiency. 4,670,456, 6-2-87, Cl. 514-424.000.
Weber, Karl-Heinz: *See*—
Schneider, Claus; Walther, Gerhard; Weber, Karl-Heinz; Bechtel, Wolf D.; and Boke-Kuhn, Karin, 4,636,510, Cl. 514-302.000.
Schneider, Claus; Walther, Gerhard; Weber, Karl-Heinz; Bechtel, Wolf D.; and Boke-Kuhn, Karin, 4,666,910, Cl. 514-228.000.
Walther, Gerhard; Schneider, Claus; Weber, Karl-Heinz; and Fugner, Armin, 4,686,219, Cl. 514-220.000.
Weber, Kent, to Sundstrand Corporation. Self-compensating heating system for a reserve electrolyte battery. 4,650,732, 3-17-87, Cl. 429-120.000.
Weber, Kent, to Sundstrand Corporation. Mixing valve. 4,653,687, 3-31-87, Cl. 236-12.110.
Weber, Kent, to Sundstrand Corporation. Pressure regulating valve. 4,682,622, 7-28-87, Cl. 137-154.000.
Weber, Klaus; and von Blanckenhagen, Peter, to Kernforschungszentrum Karlsruhe GmbH. Pulse valve. 4,669,660, 6-2-87, Cl. 239-102.200.
Weber, Klaus-Dieter: *See*—
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Weber-Knapp Company: *See*—
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Weber Marking Systems, Inc.: *See*—
Kubit, Raymond G., 4,637,974, Cl. 430-126.000.
Weber, Matthew D.; and Stewart, Clifford D. Varible outhaul wishbone boom for board sailor. 4,674,428, 6-23-87, Cl. 114-39.000.
Weber, Neill: *See*—
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Weber, Otto: *See*—
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Weber, Otto K.; and Rhee, Sang S., to Computer Optical Products, Inc. Vane encoder assembly for adjusting an optical encoder in a data storage device. 4,697,077, 9-29-87, Cl. 250-231.05E.
Weber, Paul S., to Exxon Research and Engineering Company. Method of preventing stress corrosion in a bellows expansion joint. 4,668,303, 5-26-87, Cl. 134-22.130.
Weber, Peter G., to Lattram Corp., The. Concealed drive coupling for use with modular screw conveyor. 4,691,818, 9-8-87, Cl. 197-666.000.
Weber, Raviv, to Medical Research & Development Associates. Apparatus for medical treatment by hyperthermia. 4,709,701, 12-1-87, Cl. 128-422.000.
Weber, Raymond R. Portable cutoff and end-beveling device. 4,633,621, 1-6-87, Cl. 51-181.00R.
Weber, Rebecca J.: *See*—
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Medvick, Richard J.; Weber, Richard C., Jr.; Wagner, Ross L.; and Brand, Edward M., 4,685,490, Cl. 137-614.030.
Weber, Richard M., to Texas Instruments Incorporated. Transportable hydraulic seismic transducer. 4,682,669, 7-28-87, Cl. 181-114.000.
Weber, Robert; and Forster, Josef, to Kraftwerk Union Aktiengesellschaft. Tube lane manipulator for the high-pressure blow-down of heat exchangers. 4,640,346, 2-3-87, Cl. 165-95.000.
Weber, Robert; and Memmel, Anton, to Supfina Maschinenfabrik Hentzen GmbH & Co. Stone guide for a superfinishing machine. 4,686,794, 8-18-87, Cl. 51-59.00R.
Weber, Robert; Bieselt, Roland; Forner, Siegfried; and Mechtold, Helmut, to Kraftwerk Union Aktiengesellschaft. Fixture for machining the cutting line of a pipe. 4,689,863, 9-1-87, Cl. 29-33.00T.
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Weber, Robert N.; and Stape, William J., to AMP Incorporated. Fiber optic cable puller. 4,684,211, 8-4-87, Cl. 350-96.200.
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Weber, Robert W. Fishing net. 4,674,221, 6-23-87, Cl. 43-11.000.
Weber, Robert W. Dual load trailer. 4,705,289, 11-10-87, Cl. 280-414.100.
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Weber, Russell W. Line release on trolling device. 4,700,505, 10-20-87, Cl. 43-43.120.
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Weber S.p.A. Azienda Altecna: *See*—
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Weber, William J. Modular assembly and retainer therefor. 4,647,241, 3-3-87, Cl. 403-18.000.

Weber, William R. Wallboard clip. 4,644,723, 2-24-87, Cl. 52-514.000.

Weber, Willis W., to Atec Inc. Method and system for enriching oxygen content of water. 4,664,680, 5-12-87, Cl. 55-48.000.

Weber, Wolfram: *See*—
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Allread, Alan R.; Marrison, William C.; Rogers, Russell L.; and Webster, Alexander P., 4,643,216, Cl. 137-68.100.

Webster, Christopher R., to United States of America, National Aeronautics and Space Administration. Method and apparatus for enhancing laser absorption sensitivity. 4,684,258, 8-4-87, Cl. 356-409.000.

Webster, Daniel: *See*—
Merklinger, William E.; Webster, Daniel; and Kampus, Raymond, 4,671,012, Cl. 49-55.000.

Webster, David F., to Smith and Nephew Associated Companies p.l.c. Wound dressing. 4,664,662, 5-12-87, Cl. 604-369.000.

Webster, David R. Multi-nip suction press with a four roller closed train. 4,675,079, 6-23-87, Cl. 162-360.100.

Webster Electric Company, Inc.: *See*—
Francis, Ralph M., Jr., 4,668,930, Cl. 336-180.000.

Webster, Emmett G., to New Holland Inc. Hydraulic system for anitized raking implement. 4,703,612, 11-3-87, Cl. 56-1[illegible].900.

Webster, Gary L.: *See*—
Karlis, Robert G.; Dole, Charles M.; Webster, Gary L.; and Andersen, George J., 4,712,713, Cl. 222-3.000.

Webster, Harold F., to General Electric Company. Printed circuit wiring board having a doped semi-conductive region termination. 4,672,335, 6-9-87, Cl. 333-22.00R.

Webster, James B., to Environmental Protection Systems. Ground fault monitor circuit. 4,710,751, 12-1-87, Cl. 340-522.000.

Webster, James N. Bag stand container. 4,690,357, 9-1-87, Cl. 248-99.000.

Webster, Joseph P., to Newco Enterprises, Inc. Hot beverage container. 4,638,928, 1-27-87, Cl. 222-155.000.

Webster, Martyn F., to Oxoid Limited. Immunological identification test for group D streptococci using achromopeptidase. 4,692,417, 9-8-87, Cl. 436-518.000.

Webster, Owen W., to Du Pont de Nemours, E. I., and Company. "Living" polymers and process for their preparation. 4,681,918, 7-21-87, Cl. 525-282.000.

Webster Owen W., to Du Pont de Nemours, E. I., and Company. "Living" polymers and process for their preparation. 4,711,942, 12-8-87, Cl. 526-185.000.

Webster, R. D.: *See*—
Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,686,125, Cl. 428-35.000.
Johnston, William D.; Czuba, Leonard; Webster, R. D.; Hori, Yasuhiko; Nagata, Masanori; and Imano, Shigeki, 4,692,361, Cl. 428-35.000.

Webster, Richard T.: *See*—
Slobodnik, Andrew J., Jr.; Stiglitz, Martin R.; Roberts, George A.; and Webster, Richard T., 4,712,078, Cl. 331-99.000.

Webster Spring Co. Inc.: *See*—
Hagemeister, Robert C., 4,666,136, Cl. 267-103.000.
Hagemeister, Robert C., 4,684,111, Cl. 267-103.000.
Hagemeister, Robert C., 4,685,659, Cl. 267-103.000.

Webster, Timothy: *See*—
Rai, Vish; Southall, Kenneth; Webster, Timothy; Leeke, Gordon; and Chu, Chaokang, 4,675,104, Cl. 210-198.200.

Wechner, Edward, to Joy Manufacturing Company. Bit holder. 4,650,254, 3-17-87, Cl. 299-91.000.

Wechner, Edward, to Joy Manufacturing Company. Continuous miner. 4,655,507, 4-7-87, Cl. 299-33.000.

Wechs, Friedrich: *See*—
Iosefiak, Christoph; and Wechs, Friedrich, 4,666,607, Cl. 210-640.000.

Wechter, Stephen R.: *See*—
Lindner, Luther E.; and Wechter, Stephen R., 4,692,403, Cl. 435-5.000.

Weckenbrock, Hermann J.; Roeder, Barbara J.; Casey, Robert F.; Harwood, Leopold A.; and Weetam, Werner F., to RCA Corporation. Video signal motion detecting apparatus. 4,651,211, 3-17-87, Cl. 358-166.000.

Weckenbrock, Hermann J.: *See*—
Casey, Robert F.; and Weckenbrock, Hermann J., 4,672,445, Cl. 358-140.000.
Roeder, Barbara J.; Harwood, Leopold A.; and Weckenbrock, Hermann J., 4,661,853, Cl. 358-167.000.
Roeder, Barbara J.; Harwood, Leopold A.; and Weckenbrock, Hermann J., 4,684,989, Cl. 358-167.000.

Weckerle, Wolfgang: *See*—
Kuhr, Manfred; Machat, Rudolf; Weckerle, Wolfgang; Batz, Hans-Georg; Herrmann, Rupert; Kleemann, Wolfgang; and Buschek, Herbert, 4,668,622, Cl. 435-14.000.

Weckesser, Elden C. Christmas tree irrigation device. 4,653,224, 3-31-87, Cl. 47-40.500.

Wedam, Jack M. Finger actuated electronic control apparatus. 4,654,647, 3-31-87, Cl. 340-709.000.

Wedam, Werner F.: *See*—
Weckenbrock, Hermann J.; Roeder, Barbara J.; Casey, Robert F.; Harwood, Leopold A.; and Wedam, Werner F., 4,651,211, Cl. 358-166.000.

Wedco Inc.: *See*—
Farrell, John J., 4,680,072, Cl. 156-243.000.

Weddigen, Gerd; Huber, Robert; Schmidt, Birgit; and Schneider, Hartmut, to Brown, Boveri & Cie AG. Method for the manufacture of a polymer reacted with $FeCl_3$. 4,639,496, 1-27-87, Cl. 525-506.000.

Weddigen, Gert; Flatz, Josef; Schmidt, Conrad; Huber, Robert; and Pohsner, Gerhard, to Brown, Boveri & CIE AG. Method for producing a plastic. 4,670,511, 6-2-87, Cl. 525-138.000.

Weddigen, Gert: *See*—
Flatz, Josef; Weddigen, Gert; Bohme, Hans-Joachim; Grieser, Fritz; Huber, Robert; and Nienburg, Hans, 4,691,082, Cl. 174-106.0SC.

Wedding, Brent M.: *See*—
Borrelli, Nicholas F.; Hares, George B.; Smith, Dennis W.; and Wedding, Brent M., 4,710,430, Cl. 428-432.000.

Wedding, James B. Method and apparatus for controlling flow volume through an aerosol sampler. 4,649,760, 3-17-87, Cl. 73-863.230.

Weddington, Willard T. Combination heated hair and beard comb. 4,702,265, 10-27-87, Cl. 132-118.000.

Wedel, Gregory L., to Beloit Corp. Blow box for a dryer. 4,669,198, 6-2-87, Cl. 34-23.000.

Wedel, Gregory L., to Beloit Corp. Apparatus for assisting the transfer of a web to a drying section. 4,698,919, 10-13-87, Cl. 34-117.000.

Wedel, Gregory L.; Fosler, Robert C.; and Garvin, Stanley P., Jr., to Beloit Corp. Dryer differential pressure controller. 4,700,493, 10-20-87, Cl. 34-48.000.

Wedel, Gregory L., to Beloit Corp. Electromagnetic extended nip press. 4,704,191, 11-3-87, Cl. 162-358.000.

Wedel, John A.; Carroll, Michael J.; Kassner, Michael P.; and Smith, Nathan R., to Micro Component Technology, Inc. Automatic integrated circuit transportation tube elevating and tilting device. 4,647,269, 3-3-87, Cl. 414-421.000.

Wedel, John O., Jr., to United States of America, Army. Method and apparatus for filtering high data rate signals. 4,667,298, 5-19-87, Cl. 364-602.000.

Wedell, David A.: *See*—
Darstein, Schuyler R.; and Wedell, David A., 4,647,323, Cl. 156-50.000.

Wedell, Mark C.: *See*—
Dorner, Wolfgang C.; Hosch, Michael A.; and Wedell, Mark C., 4,712,355, Cl. 53-443.000.

Wedemeyer, Karlfried: *See*—
Dicke, Hans-Rudolf; Bottenbruch, Ludwig; Wedemeyer, Karlfried; Paetz, Klaus-Christian; and El Sayed, Aziz, 4,701,515, Cl. 528-176.000.

Henneke, Karl-Wilhelm; and Wedemeyer, Karlfried, 4,650,910, Cl. 568-655.000.

Paetz, Christian; and Wedemeyer, Karlfried, 4,670,608, Cl. 568-709.000.

Weder, Bill C.: *See*—
Weder, Donald E.; Weder, Erin H.; Ruth, Howard M.; King, Michael J.; Craig, Franklin J.; Jones, Larry J.; Badgley, Kenton D.; Snider, Harry J., deceased; Snider, Laura, legal representative; Dye, S. Owen; Wiedner, Clay R.; Weder, Bill C.; and Langenberg, Robert L., 4,646,388, Cl. 19-80.00R.

Weder, Donald E.; Weder, Erin H.; Ruth, Howard M.; King, Michael J.; Craig, Franklin J.; Jones, Larry J.; Badgley, Kenton D.; Snider, Harry J., deceased; Snider, Laura, legal representative; Dye, S. Owen; Wiedner, Clay R.; Weder, Bill C.; and Langenberg, Robert L., to Highland Manufacturing & Sales Company. Apparatus for producing weighed charges of loosely aggregated filamentary material. 4,646,388, 3-3-87, Cl. 19-80.00R.

Weder, Erin H.: *See*—
Weder, Donald E.; Weder, Erin H.; Ruth, Howard M.; King, Michael J.; Craig, Franklin J.; Jones, Larry J.; Badgley, Kenton D.; Snider, Harry J., deceased; Snider, Laura, legal representative; Dye, S. Owen; Wiedner, Clay R.; Weder, Bill C.; and Langenberg, Robert L., 4,646,388, Cl. 19-80.00R.

Wederhorn, Markku: *See*—
Tammisalo, Erkki; Kanerva, Heikki; Aarnio, Jaakko; Wederhorn, Markku; and Laner, Kai, 4,646,335, Cl. 378-38.000.

Tammisalo, Erkki; Kanerva, Heikki; Aarnio, Jaakko; Wederhorn, Markku; and Laner, Kai, 4,683,581, Cl. 378-38.000.

Wedertz, Larry D., to General Dynamics, Pomona Division. Double swing wing self-erecting missile wing structure. 4,667,899, 5-26-87, Cl. 244-49.000.

Wedertz, Larry D.; Ross, Oakley G.; and Kristedja, David H., to General Dynamics, Pomona Division. Radar return suppressor. 4,688,040, 8-18-87, Cl. 342-3.000.

Wedertz, Larry D.; and Swann, Lynn J., to General Dynamics, Pomona Division. Ring-wing. 4,708,304, 11-24-87, Cl. 244-3.260.

Wedertz, Larry D.: *See*—
Ross, Oakley G.; Kline, Mark L.; and Wedertz, Larry D., 4,648,926, Cl. 156-158.000.

Wedge, D. Scott, to E-Mu Systems, Inc. Touch sensitive electronic musical or sound generating instrument. 4,699,038, 10-13-87, Cl. 84-1.100.

Wedge, Robert: *See*—
Tanner, John E., and Wedge, Robert, 4,651,395, Cl. 29-156.600.

Wedger, Inc.: *See*—
Claborn, Morris W., 4,712,363, Cl. 56-16.700.

Wedgtrac Corporation: *See*—
Nelson, Bertel S., 4,644,812, Cl. 74-425.000.

Wedgwood, Francis A.; Peck, Peter F.; and Stevens, Michael P., to United Kingdom Atomic Energy Authority. Superimposition of non-visual signals upon an image signal in a video display system. 4,642,687, 2-10-87, Cl. 358-110.000.

Wedl, Peter: *See*—
Worschech, Kurt; Loeffelholz, Frido; Wedl, Peter; and Wegemund, Bernd, 4,637,887, Cl. 252-56.00R.

Wedlake, Roger J., to South African Inventions Development Corporation. Power storage battery. 4,707,420, 11-17-87, Cl. 429-11.000.

Wedler, Hartmut: *See*—
Wolff, Pieter; and Wedler, Hartmut, 4,695,974, Cl. 364-900.000.

Wedler, Klaus: *See*—
Arendt, Gerhard; Brodbeck, Klaus-Peter; Engenhart, Reinhold; Schmidt, Viktor; and Wedler, Klaus, 4,642,965, Cl. 53-118.000.

Wedral, Elaine R.: *See*—
Hettiarachchy, Navagnana S.; Muffett, Dorothy J.; and Wedral, Elaine R., 4,699,664, Cl. 106-288.00Q.

Wedtech Corp.: *See*—
Ionescu, Dragos; and Soiman, Mihai, 4,697,570, Cl. 123-602.000.

Weed, Gregory C., to Du Pont de Nemours, E. I., and Company. Photopolymerizable composition containing carboxy benzotriazole. 4,680,249, 7-14-87, Cl. 430-281.000.

Weed, Gregory C., to Du Pont de Nemours, E. I., and Company. Photopolymerizable composition containing carboxy benzotriazole. 4,710,262, 12-1-87, Cl. 156-630.000.

Weed, Gregory C., to Du Pont de Nemours, E. I., and Company. Increased photopolymer photospeed employing yellow light preexposure. 4,716,097, 12-29-87, Cl. 430-327.000.

Weed, Lucretia J.: *See*—
DeBruyn, Frank E., Jr.; and Weed, Lucretia J., 4,690,884, Cl. 430-206.000.

Weed, Michael A.: *See*—
Collins, David W.; and Weed, Michael A., 4,642,562, Cl. 324-83.00D.

Weekley, William G.: *See*—
Goudy, Paul R., Jr.; Lamon, Keith A.; and Weekley, William G., 4,662,538, Cl. 221-265.000.

Goudy, Paul R., Jr.; Weekley, William G.; Dovala, Donald L.; and Olszewski, Thomas C., Sr., 4,687,031, Cl. 141-9.000.

Goudy, Paul R., Jr.; and Weekley, William G., 4,711,370, Cl. 221-265.000.

Weeks, Alexander J. Foot-joint for a transverse flute. 4,649,790, 3-17-87, Cl. 84-384.000.

Weeks, Charlie C. Insulation holder. 4,655,443, 4-7-87, Cl. 269-156.000.

Weeks, Donald L.: *See*—
Placke, Dale L.; and Weeks, Donald L., 4,640,505, Cl. 271-209.000.

Weeks, Gregory P., to Du Pont de Nemours, E. I., and Company. Composite nonwoven sheet. 4,647,497, 3-3-87, Cl. 428-284.000.

Weeks, J. Richard: *See*—
Weeks, James F.; Weeks, J. Richard; and Dittman, William J., 4,688,740, Cl. 242-96.000.

Weeks, James F.; Weeks, J. Richard; and Dittman, William J., to Weeks, James F.; and Weeks, J. Richard. Hand held reel. 4,688,740, 8-25-87, Cl. 242-96.000.

Weeks, Robert E.: *See*—
Hershberger, Charles L.; Merkel, Kurt E.; Weeks, Robert E., and Wild, Gene M., 4,637,981, Cl. 435-75.000.

Weeks, Stephen T.: *See*—
Cordry, Christopher D.; and Weeks, Stephen T., 4,687,206, Cl. 273-262.000.

Weeks, Vaughan B., to Medical Engineering Corporation. Catheter anchoring device. 4,645,492, 2-24-87, Cl. 604-174.000.

Weening, Willem E.: *See*—
Willemsen, Stephanus; Weening, Willem E.; and Steenbergen, Anne, 4,652,488, Cl. 428-224.000.

Weerasinghe, Vijitha M.: *See*—
Steen, William M.; and Weerasinghe, Vijitha M., 4,704,030, Cl. 356-121.000.

Weeren, Eric K.: *See*—
Tate, John C.; and Weeren, Eric K., 4,634,990, Cl. 329-126.000.

Weertman, Willem L., to Chrysler Motors Corporation. Mounting of an engine balancing device. 4,703,725, 11-3-87, Cl. 123-192.00B.

Weertz, Klaus: *See*—
Castagna, Wolfgang; Krankenhagen, Jochen; Ortwein, Heinz; and Weertz, Klaus, 4,690,081, Cl. 112-276.000.

Wefel, Jerry D., to Sundstrand Corporation. High speed generator rotor oil path air vent. 4,647,804, 3-3-87, Cl. 310-61.000.

Wegehaupt, Karl-Heinrich; and Pfeffer, Hans-Rudolf, to Wacker-Chemie GmbH. Method for improving the adhesion of elastomers to a coated substrate. 4,637,958, 1-20-87, Cl. 428-416.000.

Wegehaupt, Karl-Heinrich: *See*—
Gerhardinger, Dieter; Wegehaupt, Karl-Heinrich; and Pfeffer, Hans-Rudolf, 4,649,066, Cl. 427-387.000.

Wegel, Peter: *See*—
Dabringhaus, Volker; Dietz, Gunter; Wegel, Peter; Bowman, H. David; Korber, Jurgen; and Seidl, Horst, 4,676,544, Cl. 296-37.900.

Wegemund, Bernd: *See*—
Erwied, Werner; Upadek, Horst; and Wegemund, Bernd, 4,656,210, Cl. 524-167.000.

Erwied, Werner; Upadek, Horst; and Wegemund, Bernd, 4,686,255, Cl. 524-104.000.

Hase, Christian; Wegemund, Bernd; Erwied, Werner; and Krampitz, Dieter, 4,668,711, Cl. 524-207.000.

Hoefer, Rainer; Schmid, Karl-Heinz; and Wegemund, Bernd, 4,657,999, Cl. 526-200.000.

Worschech, Kurt; Loeffelholz, Frido; Wedl, Peter; and Wegemund, Bernd, 4,637,887, Cl. 252-56.00R.

Wegener, Gerhard: *See*—
Engbert, Theodor; Knofel, Hartmut; and Wegener, Gerhard, 4,698,424, Cl. 544-222.000.

Wegener, Ingo: *See*—
Seiter, Wolfgang; Wegener, Ingo; and Reuter, Herbert, 4,661,281, Cl. 252-140.000.

Wegener, Jack: *See*—
Johnson, Raynor A.; and Wegener, Jack, 4,686,719, Cl. 5-81.00R.

Weger, Kenneth F., Jr.: *See*—
Nowack, William C.; Moore, Stephen J.; and Weger, Kenneth F., Jr., 4,635,422, Cl. 52-406.000.

Wegerle, Dieter: *See*—
Thomas, Michael; Neumann, Peter; Wegerle, Dieter; and Krallmann, Reinhold, 4,707,161, Cl. 8-442.000.

Wegfahrt, Paul F., Jr., to Modrovich, Ivan Endre. Assay systems based on magnesium-responsive enzymes. 4,657,854, 4-14-87, Cl. 435-14.000.

Wegfahrt, Paul F., Jr.: *See*—
Modrovich, Ivan E.; Wegfahrt, Paul F., Jr.; and Gaussiran, Wanda A., 4,652,524, Cl. 435-188.000.

Weggel, Carl F.: *See*—
Schuster, John R.; Lee, Char Y.; and Weggel, Carl F., 4,657,723, Cl. 376-146.000.

Weghmann, Arnold: *See*—
Busen, Dietmar; Schluter, Helmut; Weghmann, Arnold; Blumler, Norbert; and Tecl, Bohuslav, 4,708,756, Cl. 156-143.000.

Wegman, Bernardus B. M.: *See*—
Tan, Hong S.; and Wegman, Bernardus B. M., 4,711,777, Cl. 424-79.000.

Wegman, Michael K.: *See*—
Forrest, William E.; Glabe, David H.; and Wegman, Michael K., 4,703,831, Cl. 182-3.000.

Wegman, Richard W.; and Abatjoglou, Anthony G., to Union Carbide Corporation. Production of carboxylic acids from alcohols using rhodium complex catalysts. 4,670,570, 6-2-87, Cl. 556-18.000.

Wegmann & Co. GmbH: *See*—
Schindehutte, Manfred, 4,674,411, Cl. 105-197.050.

Wegmann, Gerhard, to Siemens Aktiengesellschaft. Circuit arrangement for telecommunications switching systems, particularly telephone switching systems, comprising information-processing central switch devices and sub-central switching facilities which supply the same with information. 4,658,098, 4-14-87, Cl. 379-113.000.

Wegner, Alfons, to Fahrzeugbau Langendorf GmbH & Co., KG. Inside loader, embodied as a semi-trailer for a tractor truck, for over-the-road transport frames, in particular for transporting flat glass. 4,666,181, 5-19-87, Cl. 280-711.000.

Wegner, Christian; and Waniczek, Helmut, to Bayer Aktiengesellschaft. Ignition improvers for fuel mixtures. 4,659,335, 4-21-87, Cl. 44-53.000.
Wegner, Christian; Schneider, Gottfried; Lanzke, Hans-Uwe; Mayer, Wolfram; Wagner, Kuno; von Bonin, Wulf; von Gizycki, Ulrich; and Schaepel, Dietmar, to Bayer Aktiengesellschaft. Moisture-hardenable bandaging materials. 4,676,234, 6-30-87, Cl. 128-90.000.
Wegner, Christian: *See*—
Richter, Roland; Muller, Hanns P.; and Wegner, Christian, 4,638,795, Cl. 128-90.000.
Wegner, Eugene H.; and Hunt, Harold R., to Phillips Petroleum Company. Fermentation apparatus. 4,670,397, 6-2-87, Cl. 435-289.000.
Wegner, Gerhard: *See*—
Leyrer, Reinhold J.; Wegner, Gerhard; and Mueller, Michael, 4,640,960, Cl. 525-388.000.
Leyrer, Reinhold J.; Wegner, Gerhard; and Mueller, Michael, 4,649,100, Cl. 430-326.000.
Wegner, Juergen. *See*—
Dierdorf, Hans-Rolf; and Wegner, Juergen, 4,672,084, Cl. 524-113.000.
Wegner, Paul C., to Tiegel Manufacturing Co. Apparatus for enveloping a battery plate by a dip process. 4,685,415, 8-11-87, Cl. 118-58.000.
Wegner, Volker; and Schultze, Gunter, to Deutsch-Franzosisches Forschungsinstitut Saint-Louis. Method and apparatus for setting the operating time of a projectile time fuze. 4,664,013, 5-12-87, Cl. 89-6.500.
Wegrzyn, Richard J. *See*—
Baker, Richard I.; Wegrzyn, Richard J.; and Szymansky, Edward, 4,666,638, Cl. 261-26.000.
Szymansky, Edward; Wegrzyn, Richard J.; and Baker, R chard I., 4,644,328, Cl. 340-539.000.
Wegscheider, Hans J.: *See*—
Jenzsch, Gunter; Rauh, Kurt; and Wegscheider, Hans J., 4,637,558, Cl. 241-79.000.
WEGU Gummi- und Kunststoffwerlee Walter Drabing: *See*—
Tonnies, Herbert, 4,660,797, Cl. 248-610.000.
Weh, Herbert; and May, Hardo, to Weh, Herbert. Electrical machine. 4,663,551, 5-5-87, Cl. 310-152.000.
Wehber, Wayne F., to Ingersoll-Rand Company. Fluid seal assembly with segmented sub-assembly. 4,657,264, 4-14-87, Cl. 277-118.000.
Wehby, Timothy A. Target game. 4,643,433, 2-17-87, Cl. 273-402.000.
Wehinger, Egbert; Knorr, Andreas; Stoepel, Kurt; and Heise, Arend, to Bayer Aktiengesellschaft. Isopropyl 2-(3-trifluoromethylphenoxy)-ethyl 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-pyridine-3,5-dicarboxylate as vaso-dilators. 4,675,329, 6-23-87, Cl. 514-356.000.
Wehinger, Egbert; and Towart, Robertson, to Bayer Aktiengesellschaft. Use of sulphonyldihydropyridines as medicaments for the treatment of asthma. 4,680,305, 7-14-87, Cl. 514-347.000.
Wehinger, Egbert; and Meyer, Horst, to Bayer Aktiengesellschaft. Intermediates of optically active 1,4-dihydropyridines. 4,703,119, 10-27-87, Cl. 540-544.000.
Wehinger, Egbert; Meyer, Horst; and Benz, Ulrich, to Bayer Aktiengesellschaft. Ischaemia or hypoxia controlling compositions containing pyridinecarboxylic acid esters. 4,705,794, 11-10-87, Cl. 514-302.000.
Wehking, Wolfgang: *See*—
Sturm, Gerd-Jochen; and Wehking, Wolfgang, 4,640,281, Cl. 128-327.000.
Wehle, Anton; Unrath, Dieter; and Zimmermann, Gunther, to Stihl, Andreas. Guide bar for a saw chain of a motor-driven chain saw. 4,693,005, 9-15-87, Cl. 30-383.000.
Wehle, Anton, to Stihl, Andreas. Chain saw having a handle. 4,693,006, 9-15-87, Cl. 30-383.000.
Wehle, Anton, to Stihl, Andreas. Motor-driven tool having an air filter. 4,693,735, 9-15-87, Cl. 55-385.00R.
Wehle, Anton: *See*—
Dolata, Hans; Fink, Reinhold; Itzrodt, Gerd; Kelbert, Adam; Ryssel, Siegfried; Wehle, Anton; Wieland, Dieter; and Zerrer, Gerhard, 4,644,658, Cl. 30-381.000.
Hoppner, Klaus; Tilders, Benno; Wehle, Anton; and Wolf, Gunter, 4,662,071, Cl. 30-381.000.
Wehman, Timothy L.: *See*—
Enloe, Kenneth M.; and Wehman, Timothy L., 4,666,647, Cl. 264-121.000.
Wehmeier, Reinhard. Demonstration device for showing the required sizes of lenses for eyeglasses. 4,646,445, 3-3-87, Cl. 33-507.000.
Wehmeyer, Donald T.; and Barnhart, Ronald W., to Economy Engineering, Inc. Vehicle fluidic drive circuit. 4,691,795, 9-8-87, Cl. 180-6.480.
Wehmeyer, Donald T. Scaffold system. 4,715,474, 12-29-87, Cl. 182-194.000.
Wehmeyer, Heinrich: *See*—
Muller, Dieter J.; and Wehmeyer, Heinrich, 4,714,792, Cl. 570-261.000.
Wehn, Peter: *See*—
Becker, James R.; Wehn, Peter; and Rademacher, Peter, 4,635,936, Cl. 273-67.00R.
Wehner, Ann M.: *See*—
Shu, Ming-tsai; Thomas, William R., Jr.; and Wehner, Ann M., 4,698,914, Cl. 34-10.000.
Wehner, Cyrus A.: *See*—
Lockhart, Bruce D.; McCulloch, Dean E.; Tierney, Gordon L.; and Wehner, Cyrus A., 4,706,790, Cl. 192-3.300.
Wehner, Erwin: *See*—
Langhans, Horst; and Wehner, Erwin, 4,634,571, Cl. 376-416.000.
Wehner, Wolfgang; Muller, Horst, deceased (by Muller, Anneliese, Silvia Muller, Werner J. Muller, heirs); and Schneider, Rainer, to Ciba-Geigy Corporation. Stabilization of chlorine-containing thermoplastics with nitrogen-containing organic compounds. 4,642,322, 2-10-87, Cl. 524-191.000.
Wehner, Wolfgang; and Wirth, Hermann O., to Ciba-Geigy Corporation. Chlorinated thermoplastics stabilized with aminouracils. 4,656,209, 4-7-87, Cl. 524-87.000.
Wehner, Wolfgang: *See*—
Muller, Horst; Zinke, Horst; and Wehner, Wolfgang, 4,639,482, Cl. 524-137.000.
Wehowsky, Frank: *See*—
Bathelt, Heinrich; Ehrl, Winfried; Wehowsky, Frank; Kleber, Rolf; Lotz, Werner; Glenz, Wolfgang; Herdt, Hubert; Jackel, Lothar; Mast, Jan-Hilbert; Hintermeier, Karl; and Muller, Manfred, 4,709,074, Cl. 560-33.000.
Wehr, Chris J.: *See*—
Eisenberg, Alan D.; Conturo, Thomas E.; Wehr, Chris J.; and Schwartzberg, Mindy S., 4,669,481, Cl. 128-654.000.
Wehr Corporation: *See*—
Barrett, William T., 4,686,034, Cl. 209-223.100.
Cooley, Stephen E.; and Jensen, Martin J., 4,692,591, Cl. 219-295.000.
Cutright, Robert A.; Briggs, Mark W.; and Bouwman, George J., 4,683,424, Cl. 324-158.00F.
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Masters, Timothy E.; and Wehrer, Wayne J., 4,713,534, Cl. 250-214.00B.
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Pauling, Horst; and Wehrli, Christof, 4,687,859, Cl. 548-321.000.
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Lu, Jing-Jong; and Wehrmeister, Herbert L., 4,636,517, Cl. 514-380.000.
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Hohmann, Eugen; Mund, Konrad; and Weidlich, Erhard, 4,710,233, Cl. 134-1.000.

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Susse, Karl-Ernst; and Weidner, Frank, 4,696,009, Cl. 372-25.000.

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Collins, Paul W.; and Weier, Richard M., 4,689,419, Cl. 556-437.000.

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Konig, Gerhard; Fleck, Karl; Kess, Herbert; and Weigand, Artur, 4,701,974, Cl. 15-323.000.

Weigand, Willis A.: *See*—
Burkhalter, John F.; and Weigand, Willis A., 4,687,516, Cl. 106-90.000.

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Donovan, Dennis; McDonnell, Michael L.; Weigel, Gerald C.; and Long, John E., 4,708,877, Cl. 426-69.000.

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Atkins, Randall K.; and Weigel, Leland O., 4,689,415, Cl. 546-15.000.

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Holland-Letz, Guenter; Jaeger, Waldemar; Tewes, Udo; and Weigel, Peter, 4,703,162, Cl. 235-379.000.

Weigele, Hans: *See*—
Morlok, Albrecht; and Weigele, Hans, 4,700,796, Cl. 180-88.000.

Weigele, Manfred: *See*—
Wei, Chung-Chen; and Weigele, Manfred, 4,663,469, Cl. 549-449.000.

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Weigend, Helmut: *See*—
Morgenstern, Bernd; Weigend, Helmut; and Reinhardt, Peter, 4,690,564, Cl. 356-445.000.

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Weightman, Barry O.; and Deane, Graham. Suction-irrigation equipment having a reciprocating valve. 4,680,026, 7-14-87, Cl. 604-33.000.

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Weigl, Jeffrey L.: *See*—
Babuder, Gerald A.; and Weigl, Jeffrey L., 4,650,227, Cl. 285-379.000.

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Griese, Klaus; Mayer, Siegfried; and Weigle, Dieter, 4,681,514, Cl. 417-213.000.

Weigle, William O.; Hebbs, Monte O.; Morgan, Edward L.; Thomas, Marilyn L.; and Houghten, Richard A., to Scripps Clinic and Research Foundation. Lymphocyte-activating polypeptides. 4,683,221, 7-28-87, Cl. 514-14.000.

Weigle, William O.: *See*—
Goodman, Michael G.; and Weigle, William O., 4,643,992, Cl. 514-45.000.

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Rebmann, Manfred; and Weigold, Helmut, 4,690,668, Cl. 493-297.000.

Weihe, Gary R.; and Lion, Roger D., to Raychem Corporation. Moisture measuring apparatus. 4,655,076, 4-7-87, Cl. 73-73.000.

Weiher, Patrick M.: *See*—
Moon, Ronald R.; Machado, Michael G.; Cooper, Thomas G.; Weiher, Patrick M.; Bruner, Curtis H.; Strysko, Mark E.; Uhlendorf, Gregg J.; Campbell, Steven G.; Quan, Tuong T.; and Luong, Hoa V., 4,669,004, Cl. 360-77.000.

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Ray, Douglas M.; and Weihl, Richard H., 4,641,454, Cl. 43-26.000.

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Weik, George, to Lingl Corporation. Plate punching device with separate chamfering tool mounted to internal pressure plate. 4,698,227, 10-6-87, Cl. 425-296.000.

Weik, Guenter; and Ackermann, Max, to Inovan-Stroebe GmbH & Co. K.G. Method of manufacturing contact structures. 4,642,891, 2-17-87, Cl. 29-879.000.

Weikel, Donald J., Jr.: *See*—
Forbes, Richard L., II; Franzen, James J.; Solomon, James A.; and Weikel, Donald J., Jr., 4,657,370, Cl. 355-3.0BE.

Weikel, Scott J., to Westinghouse Electric Corp. Portable remote meter reading apparatus. 4,652,855, 3-24-87, Cl. 340-310.00A.

Weil, David M.; Lieberman, Burton E.; and Adams, Ronald F., to Cromwell Paper Company, The. Corrosion protective printing cylinder makeready. 4,687,698, 8-18-87, Cl. 428-209.000.

Weil, Edward D.: *See*—
Bolzan, Louis F.; and Weil, Edward D., 4,678,612, Cl. 260-543.00R.
Honig, Milton L.; and Weil, Edward D., 4,642,366, Cl. 558-138.000.
Jung, Alfred K.; and Weil, Edward D., 4,655,958, Cl. 252-194.000.
Jung, Alfred K.; Silberberg, Joseph; and Weil, Edward D., 4,714,724, Cl. 524-100.000.
Mirviss, Stanley B.; and Weil, Edward D., 4,661,298, Cl. 260-502.50F.

Weil, Erich: *See*—
Lange, Gerhard; and Weil, Erich, 4,705,571, Cl. 106-287.100.

Weil, George, to David R. Webb Co., Inc. Slicer dogs for thirds and quarters. 4,683,926, 8-4-87, Cl. 144-178.000.

Weil, Joachim: *See*—
Sattelmeyer, Richard; and Weil, Joachim, 4,652,612, Cl. 525-215.000.

Weil, Max H.: *See*—
Bisera, Jose; Carrington, James H.; and Weil, Max H., 4,638,811, Cl. 128-673.000.

Weil, Richard C.: *See*—
Ehrig, Raymond J.; and Weil, Richard C., 4,707,524, Cl. 525-387.000.

Weil, Wolfgang, to Elpatronic AG. Machine for welding rounded body blanks. 4,700,037, 10-13-87, Cl. 219-64.000.

Weiland, Carl. Two stroke engine with deflector valve. 4,671,218, 6-9-87, Cl. 123-65.00V.

Weiland, Lynne E.; and Parks, Beryl H., to Westinghouse Electric Corp. Nuclear reactor spacer grid. 4,702,881, 10-27-87, Cl. 376-442.000.

Weiland, Richard H.; and Franklin, William L., to Boeing Company, The. Aircraft trailing edge flap apparatus. 4,702,442, 10-27-87, Cl. 244-216.000.

Weiland-Werke AG: *See*—
Duerrschnabel, Wolfgang; Puckert, Franz; Stueer, Heinrich; and Bletschacher, Max. 4,678,637, Cl. 420-490.000.

Weilbacher, Eugene E., to Snyder Laboratories, Inc. Wound evacuator. 4,664,652, 5-12-87, Cl. 604-133.000.

Weilbacker, Thomas O.: *See*—
Selim, Ahmed E.; and Weilbacker, Thomas O., 4,688,171, Cl. 364-200.000.

Weiler, Ernst D.: *See*—
Clikeman, Richard R.; Cinoman, Douglas S.; and Weiler, Ernst D., 4,650,824, Cl. 524-457.000.

Weiler, Gerhard H.; and Pagels, Louis T., to Automatic Liquid Packaging, Inc. Apparatus for filling a molded container with liquid contents. 4,671,762, 6-9-87, Cl. 425-524.000.

Weiler, Gerhard H., to Automatic Liquid Packaging, Inc. Container with a unitary but removable closure and method and apparatus therefor. 4,671,763, 6-9-87, Cl. 425-525.000.

Weiler, Gerhard H., to Automatic Liquid Packaging, Inc. Container with insert having a fully or partially encapsulating seal with a frangible web formed against said insert. 4,699,748, 10-13-87, Cl. 264-524.000.

Weiler, Gerhard H.; Anderson, Paul A.; and Fox, Kenneth A., to Automatic Liquid Packaging, Inc. Container with an encapsulated top insert and method and apparatus for making same. 4,707,966, 11-24-87, Cl. 53-410.000.

Weiler, Horst: *See*—
Koster, Hans; and Weiler, Horst, 4,660,126, Cl. 361-392.000.

Weiler, Rolf; Kretzer, Horst; and Leidecker, Hans-Dieter, to Alfred Teves GmbH. Sealing cap for a bolt guide of a spot-type disc brake. 4,650,039, 3-17-87, Cl. 188-73.440.

Weiler, Rolf, to Alfred Teves GmbH. Sealing cap for a bolt guide of a spot-type disc brake. 4,685,686, 8-11-87, Cl. 277-212.0FB.

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Burgdorf, Jochen; and Weiler, Rolf, 4,655,119, Cl. 92-169.000.

Weiler, Shmuel: *See*—
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Weiler, Wolfgang, to MTU Motoren-und Turbinen-Union Munchen GmbH. Cooled gas turbine operable with a controlled cooling air quantity. 4,709,546, 12-1-87, Cl. 60-39.290.

Weill, Guy, to Ateliers Reunis. Carrier trolley, especially for customers of self-service stores. 4,647,055, 3-3-87, Cl. 280-33.99A.

Weill, Jerome: *See*—
Torck, Bernard; Amigues, Pierre; Weill, Jerome; Gueguen, Claude; Linares, Michel; and Bourgognon, Henri, 4,664,675, Cl. 44-60.000.

Weimann, George F., to Stanley Tools. Utility knife. 4,663,845, 5-12-87, Cl. 30-162.000.

Weimar N.V.: *See*—
Ammeraal, Thomas C. M., 4,676,364, Cl. 198-799.000.

Weimer, Eugen: *See*—
Lang, Walter; Mueller, Gerhard; and Weimer, Eugen, 4,644,948, Cl. 128-303.100.

Weimer, Ralph; Kalowski, Thaddeus J.; Dorr, Richard W.; and Novy, Robert A., to Restaurant Technology, Inc. Two-sided cooking device for a grill. 4,669,373, 6-2-87, Cl. 99-349.000.

Weimer, Robert F., to Air Products and Chemicals, Inc. Split-flow regeneration in absorptive air separation. 4,708,860, 11-24-87, Cl. 423-579.000.

Wein, Irving L. Display device for wristwatches and wristbands. 4,707,146, 11-17-87, Cl. 368-316.000.

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Weinar, Roger N. Removable concealing well trim. 4,663,906, 5-12-87, Cl. 52-211.000.

Weinberg, Alan H., to Agence Spatiale Europeenne. Drive circuit for a power field effect transistor. 4,694,206, 9-15-87, Cl. 307-571.000.

Weinberg, Matthew; Thomas, Mammen; and Chang, Shiao-Hoo, to Advanced Micro Devices, Inc. Integrated circuit fabrication process for forming a bipolar transistor having extrinsic base regions. 4,669,179, 6-2-87, Cl. 29-576.00B.

Weinberg, Matthew; and Thomas, Mammen, to Advanced Micro Devices, Inc. Method of making a planar MOS device in polysilicon. 4,688,314, 8-25-87, Cl. 437-56.000.

Weinberg, Matthew: *See*—
Thomas, Mammen; and Weinberg, Matthew, 4,682,409, Cl. 29-591.000.
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Weinberg, Norman L.: *See*—
Mazur, Duane J.; and Weinberg, Norman L., 4,702,804, Cl. 204-73.00R.

Weinberg, Roger A., to Baker Oil Tools, Inc. Retrievable bushing for well conduit. 4,664,187, 5-12-87, Cl. 166-115.000.

Weinberger, Bernd: *See*—
Suhr, Heinz-Peter; and Weinberger, Bernd, 4,660,885, Cl. 297-353.000.
Suhr, Heinz-Peter; and Weinberger, Bernd, 4,695,093, Cl. 297-300.000.

Weinberger, Ervin, to Advanced Fiberoptic Technologies Corporation. Fiber optical temperature measuring apparatus. 4,689,483, 8-25-87, Cl. 250-231.00R.

Weinberger, Joseph; Bricault, Gary S.; Gruber, David; and Rakover, Eleonora, to Xerox Corporation. Sequencing means for photocopying processes. 4,712,907, 12-15-87, Cl. 355-7.000.

Weinberger, Zvi. Anti-theft system for motor vehicles. 4,682,062, 7-21-87, Cl. 307-10.0AT.

Weinblatt, Lee S. Portable video and audio equipment holder for use in an automobile. 4,635,110, 1-6-87, Cl. 358-93.000.

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Weinblatt, Lee S. Survey technique for readership of publications. 4,659,314, 4-21-87, Cl. 434-236.000.

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Weinblatt, Lee S. Television viewer meter. 4,695,879, 9-22-87, Cl. 358-84.000.

Weindling, Frederik, to United Technologies Corporation. Synthetic aperture radar focusing. 4,706,088, 11-10-87, Cl. 342-25.000.

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Weindorf, Paul F. L., to Sperry Corporation. Power on demand beam deflection system for dual mode CRT displays. 4,712,047, 12-8-87, Cl. 315-397.000.

Weiner, Al. Heat sink assembly. 4,701,828, 10-20-87, Cl. 361-383.000.

Weiner, Alan L.: *See*—
Janoff, Andrew S.; Ostro, Marc J.; Weiner, Alan L.; Weissmann, Gerald; and Seibold, James R., 4,668,638, Cl. 436-506.000.
Popescu, Mircea C.; Weiner, Alan L.; and Carpenter-Green, Sharon S., 4,708,861, Cl. 424-1.100.

Weiner, Allan J., to RMC, Inc. Microtomy specimen block having a fiber optic transmission medium therein and method of forming the same. 4,659,173, 4-21-87, Cl. 350-96.240.

Weiner, Andrew M.: *See*—
Heritage, Jonathan P.; and Weiner, Andrew M., 4,655,547, Cl. 350/162.120.

Weiner, Brian C.; and Weiner, Sarah H. Inflatable gastric device for treating obesity and method of using the same. 4,694,827, 9-22-87, Cl. 128-303.00R.

Weiner, David. Mounting device and method for making a dynamically stiff joint. 4,662,142, 5-5-87, Cl. 52-573.000.

Weiner, Eugene R.: *See*—
Goldberg, Marvin C.; Cunningham, Kirkwood M.; and Weiner, Eugene R., 4,696,571, Cl. 356-336.000.

Weiner, Gerhard J.: *See*—
Brewton, Nolan; Weiner, Gerhard J.; and Resch, Helmut, 4,653,355, Cl. 81-3.440.

Weiner, Hans, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Arrangement for testing fuses. 4,710,720, 12-1-87, Cl. 324-550.000.

Weiner, Harvey L., to United Technologies Corporation. Valve and manifold for compressor bore heating. 4,645,416, 2-24-87, Cl. 415-115.000.

Weiner, Jerome; and Choung, Moon, to Cooper Industries. Lifting clamp cam wear indicator and method. 4,702,508, 10-27-87, Cl. 294-101.000.

Weiner, Robert I.; and Magladry, Robert. Inflatable roof safety rigging system. 4,633,974, 1-6-87, Cl. 182-3.000.

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Weiner, Sarah H.: *See*—
Weiner, Brian C.; and Weiner, Sarah H., 4,694,827, Cl. 128-303.00R.

Weiner, Sheldon; Brook, Sherwin A.; and Freitag, Michael G., to B/W Investments. Cellular mobile phone with a plurality of accessing telephone numbers for allowing access to the mobile phone by any one of the telephone numbers. 4,677,653, 6-30-87, Cl. 379-58.000.

Weinerman, Lee S.; and Vargus, Joel T., to Eastern Company, The. Half turn cabinet latch with door gasket clamping capability. 4,671,547, 6-9-87, Cl. 292-197.000.

Weinerman, Lee S.; and Vargus, Joel T., to Eastern Company, The. Sill mounted control button assembly for a vehicle door lock. 4,674,780, 6-23-87, Cl. 292-336.300.

Weinerman, Lee S.; and Vargus, Joel T., to Eastern Company, The. Half turn cabinet latch with three-part primary operating element. 4,679,835, 7-14-87, Cl. 292-197.000.

Weinerman, Lee S.; Rachocki, Michael J.; and Giarrizzo, John E., to Eastern Company, The. Cabinet lock with recessed handle. 4,683,736, 8-4-87, Cl. 70-208.000.

Weinerman, Lee S.; and Vargus, Joel T., to Eastern Company, The. Rotary latch with internal bumper block. 4,703,961, 11-3-87, Cl. 292-216.000.

Weinerman, Lee S.: *See*—
Swan, Jye P., Weinerman, Lee S.; and Mayo, Steven A., 4,706,478, Cl. 70-208.000.
Weinert, Raymond J., Jr.: *See*—
Benton, Kenneth C.; and Weinert, Raymond J., Jr., 4,657,788, Cl. 427-354.000.
Weinfurth, Udo, to Rheinmetall GmbH. Apparatus for horizontalization of revolvable weapon platform. 4,714,004, 12-22-87, Cl. 89-37.090.
Weingardt, Gary: *See*—
Andrews, Kenneth E.; Weingardt, Gary; and Durbin, James L., 4,711,390, Cl. 229-41.00R.
Weingarten, Joseph L. Investment casting mold base. 4,700,760, 10-20-87, Cl. 164-244.000.
Weingarten, Robert A.: *See*—
Benjamin, Jay H.; Gray, James P.; Hayward, Royal C.; Hess, Matthew L.; McGriff, Frederick E.; Miller, Ellis L.; and Weingarten, Robert A., 4,677,588, Cl. 364-900.000.
Weingarten, Willi: *See*—
Bottger, Wolfgang; Schneider, Heinz; and Weingarten, Willi, 4,646,572, Cl. 73-602.000.
Weingarten, Zvi. Backflow preventer apparatus for fluid flow lines. 4,658,852, 4-21-87, Cl. 137-218.000.
Weingarten, Zvi, to Bermad Kibbutz Evron. Sleeve valve with integral control chamber. 4,662,598, 5-5-87, Cl. 251-5.000.
Weingartner, Bernhard, to Neutrik Aktiengesellschaft. Electrical connector assembly. 4,647,127, 3-3-87, Cl. 339-48.000.
Weingartner, Bernhard, to Neutrik Aktiengesellschaft. Electrical connector assembly. 4,657,327, 4-14-87, Cl. 339-49.00B.
Weingartner, Fritz, to Swiss Aluminium Ltd. Process for manufacturing highly active, dispersed low apparent density aluminium hydrate. 4,637,908, 1-20-87, Cl. 264-143.000.
Weingartner, Reiner: *See*—
Kern, Eckhart; Weingartner, Reiner; Ruschek, Gerhard; Mann, Arnold; and Schlick, Horst, 4,688,723, Cl. 239-391.000.
Weingartner, Rudolf, to Greiner K.G. Insulated container and insulating element therefor. 4,640,437, 2-3-87, Cl. 220-400.000.
Weinger, Ralph, to Color Systems Technology, Inc. Priority masking techniques for video special effects. 4,642,676, 2-10-87, Cl. 358-22.000.
Weinhandl, Franz E., to Rockwell International Corporation. Two stage stepped piston air compressor. 4,657,488, 4-14-87, Cl. 417-267.000.
Weinheimer, Francis P. Tilt switch. 4,661,663, 4-28-87, Cl. 200-61.210.
Weinheimer, Gonter: *See*—
Kleinschroth, Jorgen; Satzinger, Gerhard; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; Weinheimer, Gonter; and Fritschi, Edgar, 4,681,882, Cl. 514-258.000.
Weinheimer, Gunter: *See*—
Kleinschroth, Jurgen; Satzinger, Gerhard; Mannhardt, Karl; Hartenstein, Johannes; Osswald, Hartmut; Weinheimer, Gunter; and Fritschi, Edgar, 4,677,108, Cl. 514-258.000.
Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Kleinschroth, Jurgen; Osswald, Hartmut; Weinheimer, Gunter; and Fritschi, Edgar, 4,711,901, Cl. 514-300.000.
Weinhold, Helmut: *See*—
Bauer, Ludwig; Schneider, Erwin; Rensch, Walter; and Weinhold, Helmut, 4,702,464, Cl. 269-55.000.
Berleth, Manfred; and Weinhold, Helmut, 4,690,023, Cl. 83-700.000.
Weinhold, Karl. Device for connecting two pipe ends. 4,643,464, 2-17-87, Cl. 285-233.000.
Weinhold, Karl. Tube coupling. 4,659,120, 4-21-87, Cl. 285-91.000.
Weinhold, Karl. Connection coupling. 4,687,234, 8-18-87, Cl. 285-244.000.
Weinhold, Karl. Device for connecting the ends of two pipes. 4,695,079, 9-22-87, Cl. 285-278.000.
Weinich, Manfred; Gross, Hermann; and Rapp, Herbert, to Daimler-Benz Aktiengesellschaft. Vehicle passenger headrest support arrangement. 4,674,796, 6-23-87, Cl. 297-391.000.
Weinmann, Hanns-Joachim: *See*—
Gries, Heinz; Rosenberg, Douwe; and Weinmann, Hanns-Joachim, 4,647,447, Cl. 424-9.000.
Weinmann, Hasso: *See*—
Kolbe, Ernst-Gunter; Weinmann, Hasso; Drews, Wolfgang; and Eckstein, Wolfgang, 4,665,910, Cl. 128-202.260.
Weinmann, Paul R. Motor vehicle wheel mounting means and method. 4,708,397, 11-24-87, Cl. 301-9.0DN.
Weinreb, Daniel: *See*—
Vidal, Henri; and Weinreb, Daniel, 4,710,062, Cl. 405-262.000.
Weinrib, Harry P. Catheter with coiled tip. 4,706,671, 11-17-87, Cl. 128-348.100.
Weinrib, Harry P.: *See*—
Schenck, Robert R.; and Weinrib, Harry P., 4,693,249, Cl. 128-334.00R.
Weinschel Engineering: *See*—
Capek, George, 4,684,905, Cl. 333-81.00R.
Weinschel Engineering Co., Inc.: *See*—
Jones, Earl M., III, 4,700,159, Cl. 333-244.000.
Ulriksson, Bengt A.; and Fletcher, Lawrence, 4,682,060, Cl. 307-543.000.
Weinshenker, Eugene; and Dirksing, Robert S., to Procter & Gamble Company, The. Subatmospheric method and apparatus for expanding blood vessels to facilitate puncture with a cannula. 4,664,651, 5-12-87, Cl. 604-115.000.
Weinshenker, Eugene: *See*—
Linman, E. Kelly; Curro, John J.; and Weinshenker, Eugene, 4,681,793, Cl. 428-138.000.
Weinstein, Arthur H.: *See*—
Smith, Robert A.; Parker, Dane K.; Colvin, Howard A.; Weinstein, Arthur H.; and Patterson, Dennis B., 4,694,057, Cl. 525-206.00.
Weinstein, David J.: *See*—
Stanescu, Mircea S.; Weinstein, David J.; and Cornelssen, Cornelius W., 4,648,914, Cl. 148-16.000.
Weinstein, Morris: *See*—
Green, Harold A.; and Weinstein, Morris, 4,676,835, Cl. 106-111.000.
Green, Harold A.; and Weinstein, Morris, 4,678,515, Cl. 106-111.000.
Weinstein, Richard, to Champion Spark Plug Company. Fluid tip and air cap assembly. 4,657,184, 4-14-87, Cl. 239-296.000.
Weinstock, Joseph: *See*—
Stringer, Orum D.; and Weinstock, Joseph, 4,663,482, Cl. 564-374.000.
Weintraub, Alvin; and MacCormack, Robert S., to United States of America, Energy, System for agitating the acid in a lead-acid battery. 4,693,947, 9-15-87, Cl. 429-51.000.
Weintraub, David; and Zamir, Yaakov, to Galil Advanced Technologies Ltd. Power-driven gripping tool particularly useful as a suturing device. 4,635,638, 1-13-87, Cl. 128-340.000.
Weintraub, Marvin H.; Bernier, Donald R.; and Cameron, Larry, to Water Sentry, Inc. Automatic control apparatus and method for sprinkling water over a predetermined area. 4,693,419, 9-15-87, Cl. 239-63.000.
Weintz, Hans-Joachim: *See*—
Binger, Paul; and Weintz, Hans-Joachim, 4,659,843, Cl. 549-295.000.
Weinzetl, James M.: *See*—
Arp, Robert A.; Conroy, W. Patrick; Miller, Curtis H.; and Weinzetl, James M., 4,643,303, Cl. 206-370.000.
Weir, David F., to Westinghouse Electric Corp. Flexible coupling with deformable beam elements. 4,671,780, 6-9-87, Cl. 464-85.000.
Weir, Dixie L.: *See*—
Dutt, Herbert V.; and Weir, Dixie L., 4,700,867, Cl. 220-410.00.
Weir, Donald A., deceased (by Weir, Jean C., executrix); Walsh, William A. G.; and Slatter, Richard C., to STC plc. Packet switching system. 4,707,831, 11-17-87, Cl. 370-94.000.
Weir, Donald H.; Frederick, Stanley H.; Hotaling, Robert A.; and Robol, Ronald B., to Fox Industries Incorporated. Modular operations center for in-ground swimming pool. 4,661,247, 4-28-87, Cl. 210-97.000.
Weir, Donald H.; Frederick, Stanley H.; Hotaling, Robert A.; and Robol, Ronald B., to Wexco Incorporated. Modular operations center for in-ground swimming pool. 4,705,629, 11-10-87, Cl. 210-340.000.
Weir, Donald R.: *See*—
Bruning, Donald D.; and Weir, Donald R., 4,657,944, Cl. 523-130.000.
Mackiw, Vladimir N.; Nadezhdin, Alexander; and Weir, Donald R., 4,645,532, Cl. 75-0.50A.
Weir, Jean C., executrix: *See*—
Weir, Donald A., deceased; Walsh, William A. G.; and Slatter, Richard C., 4,707,831, Cl. 370-94.000.
Weir, Joseph W., III. Universal fittings. 4,712,812, 12-15-87, Cl. 285-177.000.
Weir, Robert M.: *See*—
Staun, Paul R.; Weir, Robert M.; and Sommerfeld, Dean R., 4,715,401, Cl. 137-355.170.
Weirich, Walter; Barnert, Heiko; Oertel, Michael; and Schulten, Rudolf, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Process and apparatus for conversion of water vapor with coal or hydrocarbon into a product gas. 4,713,234, 12-15-87, Cl. 423-648.00R.
Weirich, Walter: *See*—
Kussel, Willy; Dettmers, Michael; and Weirich, Walter, 4,702,148, Cl. 91-527.000.
Weirick, Richard A., to Donnelly Corporation. Power control for heated windshields. 4,673,797, 6-16-87, Cl. 219-203.000.
Weirton Steel Corporation: *See*—
Saunders, William T., 4,669,629, Cl. 220-273.000.
Weis, Frank G., to Smith & Loveless. Submersible pump guide rail arrangement. 4,661,047, 4-28-87, Cl. 417-360.000.
Weis, Fredrick A.: *See*—
Yingst, Thomas E.; and Weis, Fredrick A., 4,706,466, Cl. 62-138.000.
Weis, Guenther: *See*—
Prechtl, Wolfgang; and Weis, Guenther, 4,662,705, Cl. 339-184.00R.
Weis, Hans-Joachim: *See*—
Manzke, Klaus; Weis, Hans-Joachim; and Soehring, Gerhard, 4,660,120, Cl. 360-137.000.
Weis, John H.; and Salstrom, John S., to Molecular Genetics, Inc. Production of reverse transcriptase. 4,663,290, 5-5-87, Cl. 435-253.000.
Weis, Martin; and Scholz, Adolf, to BMD Badische Maschinenfabrik Durlach GmbH. Conveyor apparatus for castings in a cleaning device. 4,688,586, 8-25-87, Cl. 134-80.000.
Weis, Otto: *See*—
Krieger, Friedrich; and Weis, Otto, 4,666,050, Cl. 212-211.000.

eis, Ronald J.: *See*—
Astrom, Gordon L.; Weis, Ronald J., and Shubert, Wesley M., 4,695,376, Cl. 210-122.000.

eisbart, Charles K.: *See*—
King, William L.; and Weisbart, Charles K., 4,662,513, Cl. 206-287.100.
King, William L.; and Weisbart, Charles K., 4,693,368, Cl. 206-287.100.

eisberg, Herbert B.: *See*—
Tidquist, John C.; and Weisberg, Herbert B., 4,699,666, Cl. 134-4.000.

eisberg, Renee; and Krebaum, Lawrence J., to Weisberg, Renee. Compositions and process for applying protective covering and extensions to fingernails. 4,669,491, 6-2-87, Cl. 132-73.000.

eisberg, Sharon L.: *See*—
Peterson, Steven H.; Lahoda, Edward J.; and Weisberg, Sharon L., 4,711,768, Cl. 423-21.500.

eisbrod, Helmut: *See*—
Burgdorf, Jochen; and Weisbrod, Helmut, 4,715,486, Cl. 192-107.00M.

eischedel, Guido, to Robert Bosch GmbH. Speed governing system for a fuel injected internal combustion engine, especially a diesel engine. 4,690,114, 9-1-87, Cl. 123-357.000.

eischedel, Herbert R., to NDT Technologies, Inc. Method and apparatus for magnetically inspecting elongated objects for structural defects. 4,659,991, 4-21-87, Cl. 324-241.000.

eischer, Carl H.: *See*—
Tibes, Ulrich; Weischer, Carl H.; Hettche, Helmut; Breuel, Hans-Peter; and Gunesch, Dietmar, 4,668,684, Cl. 514-277.000.

eise, Jeanne: *See*—
Mastriani, Dennis; Jacoby, Donald; Weise, Jeanne; Linick, Bruce; Marinho, John; and DeSantis, Charles M., 4,696,053, Cl. 455-67.000.

eise, Lutz: *See*—
Belart, Juan; Burgdorf, Jochen; Bleckmann, Hans W.; Weise, Lutz; and Seibert, Wolfram, 4,641,895, Cl. 303-119.000.
Belart, Juan; Weise, Lutz; and Seibert, Wolfram, 4,643,486, Cl. 303-114.000.
Belart, Juan; Burgdorf, Jochen; Weise, Lutz; and Seibert, Wolfram, 4,685,747, Cl. 303-114.000.
Burgdorf, Jochen; and Weise, Lutz, 4,657,312, Cl. 303-92.000.
Burgdorf, Jochen; and Weise, Lutz, 4,682,824, Cl. 303-92.000.

Weise, Wayne A.: *See*—
Ganesan, Apparajan; and Weise, Wayne A., 4,651,133, Cl. 340-365.00C.

Weiselfish, Jacob; and Collins, George, to Gerber Garment Technology. Tracking apparatus in conveyorized transport system. 4,700,633, 10-20-87, Cl. 104-102.000.

Weiselfish, Jacob: *See*—
Pearl, David R.; and Weiselfish, Jacob, 4,675,497, Cl. 219-121.0LG.

Weisenbarger, Gale M.; and Moran, John C. Magnetic fluid conditioner. 4,711,271, 12-8-87, Cl. 137-827.000.

Weisenberger, Johannes: *See*—
Roch, Josef; Heckel, Armin; Nickl, Josef; Muller, Erich; Narr, Berthold; Zimmermann, Rainer; and Weisenberger, Johannes, 4,714,698, Cl. 514-212.000.

Weisenberger, Johannes M.: *See*—
Roch, Josef; Muller, Erich; Narr, Berthold; Nickl, Josef; Haarmann, Walter; and Weisenberger, Johannes M., 4,690,923, Cl. 514-222.000.

Weisenberger, Richard J. Torsidal whistle. 4,686,928, 8-18-87, Cl. 116-137.00R.

Weisenfelder, Carl H., to IRI International Corporation. Shifting apparatus for a drawworks transmission. 4,683,994, 8-4-87, Cl. 192-3.610.

Weiser, Ernst A.: *See*—
Bruckmann, Heinz; Wolfsgruber, Friedrich; and Weiser, Ernst A., 4,643,768, Cl. 420-578.000.

Weiser, Harald: *See*—
Klaus, Michael; Loeliger, Peter; and Weiser, Harald, 4,659,735, Cl. 514-443.000.

Weiser, Howard, to Highland Queen Sportswear Limited. Reversible pleated skirt. 4,662,008, 5-5-87, Cl. 2-211.000.

Weiser, Josef, to Siemens Aktiengesellschaft. Electromagnetic relay. 4,665,375, 5-12-87, Cl. 335-78.000.

Weiser, Josef: *See*—
Schreiner, Horst; Rothkegel, Bernhard; Weiser, Josef; and Esterl, Robert, 4,671,889, Cl. 252-181.200.

Weiser, Sylvan W. Screw threaded closure with elastomeric grip band. 4,702,384, 10-27-87, Cl. 215-295.000.

Weisert, Edward D., to Ontario Technologies Corporation. Method for making layered foil structure. 4,678,115, 7-7-87, Cl. 228-183.000.

Weisgerber, Claus: *See*—
Wiedenhoff, Wolfgang; Gaertner, Adolf W.; Vogt, Gert; and Weisgerber, Claus, 4,682,632, Cl. 138-178.000.

Weisgerber, Paul J.: *See*—
Witzel, John R.; and Weisgerber, Paul J., 4,712,953, Cl. 409-131.000.

Weisgerber, Willi, to Miller-Johannisberg Druckmaschinen GmbH. Sheet-delivery control and regulating apparatus. 4,643,414, 2-17-87, Cl. 271-183.000.

Weishaupt, Kenneth R.: *See*—
Dougherty, Thomas J.; Potter, William R.; and Weishaupt, Kenneth R., 4,649,151, Cl. 514-410.000.

Weishaupt, Walter; Tigges, Michael; and Proske, Arnost, to Bayerische Motoren Werke Aktiengesellschaft. Security installation. 4,652,860, 3-24-87, Cl. 340-539.000.

Weishaupt, Walter, to Bayerische Motoren Werke Aktiengesellschaft. Testing method for ignition systems of internal combustion engines in motor vehicles. 4,684,896, 8-4-87, Cl. 324-399.000.

Weisman, Jason: *See*—
Tripp, Edwin P., III; Weisman, Jason; and Hissong, George, 4,642,244, Cl. 427-44.000.

Weisman, Paul T.; Houghton, Dawn L.; and Gellert, Dale A., to Procter & Gamble Company, The. Absorbent articles with dual-layered cores. 4,673,402, 6-16-87, Cl. 604-368.000.

Weisner, Kent A.; and Walls, Lester L., Jr., to Kenergy Corporation. Standing seam roof skylight. 4,649,680, 3-17-87, Cl. 52-200.000.

Weisner, Ralph M., to View Engineering, Inc. Systems and methods for illuminating objects for vision systems. 4,706,168, 11-10-87, Cl. 362-18.000.

Weiss, Armin K., to Eastman Kodak Company. Light sensing devices with lenticular pixels. 4,694,185, 9-15-87, Cl. 250-578.000.

Weiss, Arno: *See*—
Junemann, Gitta; Hirsch, Werner; and Weiss, Arno, 4,709,709, Cl. 131-306.000.

Weiss, Charles B., to Technicon Instruments Corporation. Apparatus for exchanging substances between fluids. 4,699,768, 10-13-87, Cl. 422-70.000.

Weiss, Eckardt: *See*—
Wentzel, Peter; Huber, Erich; Weiss, Eckardt; and Achatz, Florian, 4,706,136, Cl. 360-39.000.

Weiss, Edward L., to General Signal Corporation. Method and means for multiplexing optical sensors. 4,683,374, 7-28-87, Cl. 250-227.000.

Weiss, Ekkehard: *See*—
Kompis, Ivan; and Weiss, Ekkehard, 4,640,918, Cl. 514-222.000.

Weiss, Ervin: *See*—
Fitzig, Simon; and Weiss, Ervin, 4,701,128, Cl. 433-116.000.
Rosenberg, Melvyn; and Weiss, Ervin, 4,687,746, Cl. 435-292.000.

Weiss, Erwin, to Hoechst Aktiengesellschaft. Process for the preparation of tertiary phosphine oxides. 4,675,446, 6-23-87, Cl. 568-14.000.

Weiss, Erwin: *See*—
Kleiner, Hans-Jerg; and Weiss, Erwin, 4,670,601, Cl. 568-14.000.

Weiss, Franz; Eschenweck, Dieter; and Stark, Manfred, to Kolbenschmidt Aktiengesellschaft. Composite casting process. 4,687,043, 8-18-87, Cl. 164-97.000.

Weiss, Franz-Josef; Habermann, Wolfgang; Hammes, Peter; Frommer, Elmar; Thomas, Erwin; and Thoma, Peter, to BASF Aktiengesellschaft. Preparation of aqueous hydroxylamine solutions. 4,645,579, 2-24-87, Cl. 204-182.400.

Weiss, Franz-Josef: *See*—
Biffar, Werner; Hofstadt, Otto; Kartte, Klaus; Thomas, Erwin; and Weiss, Franz-Josef, 4,659,683, Cl. 502-24.000.
Grosskinsky, Otto-Alfred; Frommer, Elmar; Ritz, Josef; Thomas, Erwin; and Weiss, Franz-Josef, 4,634,584, Cl. 423-265.000.

Weiss, Frederick G., to Triquint Semiconductor, Inc. Analog switch. 4,712,025, 12-8-87, Cl. 307-571.000.

Weiss, Frederick G.: *See*—
Li, Jim Y.; and Weiss, Frederick G., 4,686,451, Cl. 323-313.000.

Weiss, Friedrich: *See*—
Eblen, Ewald; Hofmann, Karl; Holzgrefe, Volker; Pigeroulet, Jean; Rodriguez-Amaya, Nestor; Simon, Nikolaus; Trachte, Dietrich; Weiss, Friedrich; and Ziegler, Ewald, 4,653,455, Cl. 123-506.000.

Weiss, Gilbert; D'Amelia, Ronald P.; Reggio, Richard A.; and Wolf, Stephen H., to Nabisco Brands, Inc. Layered chewing gum with moisture impervious outer layer. 4,656,039, 4-7-87, Cl. 426-5.000.

Weiss, Hans J.: *See*—
Rammler, Roland; Weiss, Hans J.; Dreher, Ingo; Schmalfeld, Jorg; and Bietz, Karl-Heinz, 4,659,456, Cl. 208-407.000.

Weiss, Hans-Wilhelm: *See*—
Klie, Juergen; and Weiss, Hans-Wilhelm, 4,679,533, Cl. 123-179.00F.
Klie, Jurgen; and Weiss, Hans-Wilhelm, 4,699,095, Cl. 123-179.00F.

Weiss, Hardy P., to PRC Corporation. Method for improving the power of an axial gas laser. 4,692,928, 9-8-87, Cl. 372-63.000.

Weiss, Hardy P., to PRC Corporation. Gas laser with at least one excitation tube wherethrough gas is actually flowing. 4,704,719, 11-3-87, Cl. 372-58.000.

Weiss, Herbert V., to United States of America, Navy. Concretization of high level radioactive source in marine sediment. 4,636,358, 1-13-87, Cl. 422-6.000.

Weiss, Horst: *See*—
Becker, Hans; and Weiss, Horst, 4,670,027, Cl. 55-48.000.

Weiss Instruments Inc.: *See*—
Weiss, John; and Slonaker, William H., 4,646,406, Cl. 29-157.00R.

Weiss, Irving: *See*—
Markbreiter, Stephen J.; and Weiss, Irving, 4,704,146, Cl. 62-17.000.

Weiss, Jacqueline B.; and Hill, Christopher R. Angiogenic factor production. 4,698,301, 10-6-87, Cl. 435-41.000.

Weiss, Jeffrey A. Method and apparatus for synchronizing encrypting and decrypting systems. 4,654,480, 3-31-87, Cl. 380-48.000.

Weiss, Joel R., to International Business Machines Corporation. Magnetic recording disk using silicon substrate. 4,675,240, 6-23-87, Cl. 428-611.000.

Weiss, John; and Slonaker, William H., to Weiss Instruments Inc. Welded edge bourdon strip thermometer-manometer. 4,646,406, 3-3-87, Cl. 29-157.00R.

Weiss, John, to Schwab, Allen; Schwab, Richard; Jacoabs, Michael; and Woodward, William R. Reactive control apparatus. 4,660,828, 4-28-87, Cl. 272-138.000.

Weiss, Karl: *See*—
Brendl, Rudolf; Hahn, Alfred; and Weiss, Karl, 4,697,802, Cl. 269-323.000.

Hahn, Alfred; Kamm, Bodo; Weiss, Karl; and Dummert, Johannes, 4,715,057, Cl. 378-197.000.

Weiss, Kurt: *See*—
Petzow, Gunter; Hofmann, Heinrich; and Weiss, Kurt, 4,670,408, Cl. 501-87.000.

Weiss, Leonard: *See*—
Roberts, Patrick S.; and Weiss, Leonard, 4,697,930, Cl. 368-82.000.

Weiss, Louis C.; Thibodeaux, Devron P.; and Godshall, Mary Ann, to United States of America, Agriculture. Electrodynamic method for separating components of a mixture. 4,680,106, 7-14-87, Cl. 209-1.000.

Weiss, Manfred, to Richard Kablitz GmbH & Co. KG. Inclined grate for furnaces. 4,638,905, 1-27-87, Cl. 198-774.000.

Weiss, Manfred, to Henkell & Co. Method for decreasing the alcohol content of alcohol-containing beverages, particularly wine and sparkling wine. 4,681,767, 7-21-87, Cl. 426-14.000.

Weiss, Martin M. Device for reading and writing and the teaching of literacy. 4,655,713, 4-7-87, Cl. 434-178.000.

Weiss, Peter: *See*—
Thievessen, Karl; and Weiss, Peter, 4,681,274, Cl. 242-58.300.

Weiss, Rafael, to Liebherr-Verzahntechnik GmbH. Transporting apparatus for conveying carriers. 4,699,266, 10-13-87, Cl. 198-803.200.

Weiss, Richard: *See*—
Spielau, Paul; Kuhnel, Werner; Klaar, Karlo; Gaspar, Bertram; Weiss, Richard; Ulb, Horst; Breitscheidel, Hans-Ulrich; Klingberg, Gerd; and Fenske, Jurgen, 4,652,326, Cl. 156-244.110.

Weiss, Robert F. Foot support. 4,674,201, 6-23-87, Cl. 36-43.000.

Weiss, Roger, to Moulinex, Societe Anonyme. Electrical household appliance for culinary purposes. 4,693,610, 9-15-87, Cl. 366-146.000.

Weiss, Rudolf, to Atec-Weiss KG. Flexible all-steel shaft coupling. 4,708,692, 11-24-87, Cl. 464-69.000.

Weiss, Sidney. Bow frog. 4,713,998, 12-22-87, Cl. 84-282.000.

Weiss, Sol. Surgical device for performing emergency cricothyrotomies and tracheotomies. 4,643,188, 2-17-87, Cl. 128-305.300.

Weiss, Stefan: *See*—
Hettche, Albert; Weiss, Stefan; Trauth, Hubert-Lechtken, Peter; and Horner, Michael, 4,680,327, Cl. 524-110.000.
Krommer, Helmut; Neuhauser, Karl-Heinz; and Weiss, Stefan, 4,714,602, Cl. 423-369.000.
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Weissbacher, Georg, to MAN Gutehoffnungshutte GmbH. Turbine or compressor guide blade and method of manufacturing same. 4,704,066, 11-3-87, Cl. 415-191.000.

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Evans, Elaine L.; Graham, James E.; and Weissberg, Alan B., 4,707,405, Cl. 428-336.000.

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Schraut, Alfred; and Weissenberger, Helmuth, 4,651,857, Cl. 192-70.180.

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Weiswurm, Klaus D. Method and apparatus for coating of circuit boards. 4,695,482, 9-22-87, Cl. 427-96.000.

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Chang, Clarence D.; and Weisz, Paul B., 4,701,313, Cl. 423-277.000.

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Crittenden, James F.; and Weitzner, Barry D., 4,654,024, Cl. 604-49.000.

Weixel, Mark: *See—*
Rushing, Frank C.; and Weixel, Mark, 4,715,557, Cl. 242-129.000.

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Molin, Nils I.; Welander, Thomas G.; Hansson, Bengt G.; Andersson, Per-Erik; and Annergren, Goran E., 4,659,471, Cl. 210-603.000.
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Welbourn, Christopher M.; and Smith, Martin P., to Spandrel Establishment. Integrating sphere device for measuring transmission of light in objects. 4,663,522, 5-5-87, Cl. 250-223.00R.

Welburn, David J.: *See—*
Kelly, George G.; and Welburn, David J., 4,699,059, Cl. 102-275.700.

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Welch, Aaron P. Self-inking stamp alignment tool. 4,688,333, 8-25-87, Cl. 33-614.000.

Welch, Alan E. Golf stance device. 4,647,048, 3-3-87, Cl. 273-187.00R.

Welch, Albert B., to Bio-Electric, Inc. Method and apparatus for treatment of biological tissue. 4,672,951, 6-16-87, Cl. 128-1.500.

Welch Allyn, Inc.: *See—*
Heller, James W.; Kugler, Andrew J.; Longacre, Andrew, Jr.; and Williams, Daniel L., 4,688,582, Cl. 128-746.000.
Krasnicki, Edward J.; Hannibal, Alan J.; and Pherson, Thomas R., 4,676,229, Cl. 128-4.000.
Krauter, Allan I.; Cope, Fred C.; and Bean, John H., 4,649,904, Cl. 128-6.000.
Krauter, Allan I., 4,697,576, Cl. 128-4.000.
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Lia, Raymond A.; and Vivenzio, Robert L., 4,700,693, Cl. 128-4.000.
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Welch, Daniel P.: *See—*
Meisinger, Stanlee W.; and Welch, Daniel P., 4,688,830, Cl. 285-100.000.

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Zald, Roberta L.; Adams, Stanley L.; and Welch, David P., 4,676,447, Cl. 242-58.400.

Welch, David W.; Czarnecki, Carl G.; and DiTucci, Joseph, to United Technologies Electro Systems, Inc. Electric shift actuator for vehicle transfer case. 4,664,217, 5-12-87, Cl. 180-247.000.

Welch, Dean, to Duty Cycle, Inc. Mounting for duty cycle control switch for ceiling mounted ductless heater. 4,664,311, 5-12-87, Cl. 236-10.000.

Welch, Deo. Dust mop with improved backing for slip-through frame. 4,715,081, 12-29-87, Cl. 15-229.800.

Welch, Hubert E. Machine for stacking nestable extruded cans. 4,645,061, 2-24-87, Cl. 198-420.000.

Welch, James A., Sr. Storage and inventory control system for keys. 4,681,504, 7-21-87, Cl. 414-268.000.

Welch, James D. Fabrication of Schottky barrier MOSFETS. 4,696,093, 9-29-87, Cl. 437-176.000.

Welch, Larry D.: *See—*
Zingg, Warren M.; and Welch, Larry D., 4,662,401, Cl. 137-824.000.

Welch, M. Bruce, to Phillips Petroleum Company. Zinc aluminate double bond isomerization catalyst and process for its production. 4,692,430, 9-8-87, Cl. 502-342.000.

Welch, M. Bruce: *See—*
Drake, Charles A.; and Welch, M. Bruce, 4,654,461, Cl. 585-600.000.

Welch, Phillip J., to British Nuclear Fuels plc. Syphoning sampler. 4,688,435, 8-25-87, Cl. 73-864.340.

Welch, Phillip W.; and Roberts, Lawrence R., to W. R. Grace & Co. Methods of operating ball grinding mills. 4,635,858, 1-13-87, Cl. 241-16.000.

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Brademeyer, David L.; and Welch, Timothy M., 4,633,669, Cl. 60-578.000.
Brademeyer, David L.; and Welch, Timothy M., 4,640,098, Cl. 60-578.000.

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Herrmann, Eggert, 4,648,543, Cl. 228-6.200.

Weld Mold Company: *See—*
Kiilunen, Matt, 4,673,796, Cl. 219-145.220.

Weld Racing Enterprises, Inc.: *See—*
Weld, Richard G., 4,645,267, Cl. 301-37.00R.

Weld, Richard G., to Weld Racing Enterprises, Inc. Vehicle wheel having non-suspension wire spokes. 4,645,267, 2-24-87, Cl. 301-37.00R.

Welder, William C., to Raymond Production Systems Corporation. Transfer mechanism. 4,658,947, 4-21-87, Cl. 198-346.200.

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Reynolds, Roger G., 4,716,267, Cl. 219-113.000.
Slasinski, Arthur L., 4,660,403, Cl. 72-389.000.

Weldin, William B.; and Lehman, Raymond C., to Beverage Mate Corp. Reusable bottle handle. 4,660,876, 4-28-87, Cl. 294-33.000.

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Hulsizer, Philip N.; and Dahl, John H., 4,716,271, Cl. 219-125.110.

Weldle, Helmut, to Heckler & Koch GmbH. Automatic hand firearm with rigidly locked breech for ammunition with extremely high projectile momentum. 4,635,530, 1-13-87, Cl. 89-159.000.

Weldmatic Patents, Inc.: *See—*
Kosch, Delmar D., 4,681,277, Cl. 242-156.200.

Weldon, James M.; Aanstoos, Theodore A.; Zowarka, Raymond C.; and Weldon, William F., to Parker Kinetic Designs, Inc. Welding fixture. 4,656,328, 4-7-87, Cl. 219-104.000.

Weldon, Scott B., to James River Corporation of Nevada. Apparatus for treating web material. 4,689,119, 8-25-87, Cl. 162-281.000.

Weldon, William F.: *See—*
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Weldy, John A.; and Kristy, Stephen H., to Eastman Kodak Company. Single sensor color video camera with blurring filter. 4,663,661, 5-5-87, Cl. 358-44.000.

Welham, Arthur C., to Sandoz Ltd. Method of reducing chromium levels in effluent chromate aftertreatment of wool dyeings. 4,670,017, 6-2-87, Cl_4 8-598.000.

Welk, John R.: *See—*
Bujalski, Joseph; and Welk, John R., 4,673,930, Cl. 340-703.000.

Welk, Kenneth L., to Armstrong World Industries, Inc. Single-pass tile domer. 4,664,616, 5-12-87, Cl. 425-373.000.

Welker Engineering Company: *See—*
Welker, Robert H., 4,678,290, Cl. 350-506.000.

Welker, Helmut, to Acu-Rite Incorporated. Phase controlled incremental distance measuring system. 4,672,201, 6-9-87, Cl. 250-231.0SE.

Welker, Lynn C.: *See—*
Miller, Richard T.; Sukhman, Yefim P.; and Welker, Lynn C., 4,642,439, Cl. 219-121.0LN.
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Welker, Robert H., to Welker Engineering Company. Apparatus for visual inspection of closed machinery. 4,678,290, 7-7-87, Cl. 350-506.000.

Welker, T. L. Trailer. 4,659,100, 4-21-87, Cl. 280-414.100.

Welkie, David G.; and Gerlach, Robert L., to Perkin-Elmer Corporation, The. Vacuum-compatible air-cooled plasma device. 4,659,899, 4-21-87, Cl. 219-121.0PN.

Welkie, David G., to Perkin-Elmer Corporation, The. Primary ion beam raster gating technique for secondary ion mass spectrometer system. 4,661,702, 4-28-87, Cl. 250-309.000.

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Guidry, John P.; and Gavranovic, Lee Roy C., 4,681,163, Cl. 166-278.000.
Petrovic, Ljubisa M., 4,693,318, Cl. 166-380.000.
Petrovic, Ljubisa M., 4,700,776, Cl. 166-157.000.

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Hanefeld, Wolfgang; Rothlisberger, Rudi; and Noser, Friedrich, 4,643,997, Cl. 514-226.000.
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Hoch, Dietrich; Wajaroff, Theodor; and Konrad, Eugen, 4,660,580, Cl. 132-7.000.
Konrad, Eugen; and Clausen, Thomas, 4,661,114, Cl. 8-409.000.
Konrad, Eugen; and Clausen, Thomas, 4,704,474, Cl. 564-441.000.
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Steigerwald, Franz; and Adler, Franz, 4,669,621, Cl. 215-228.000.
Zulauf, Karlheinz; and Breuer, Lothar, 4,712,593, Cl. 141-113.000.

Welland, David R.; and Callahan, Michael J., to Crystal Semiconductor Corporation. Self-calibration method for capacitors in a monolithic integrated circuit. 4,709,225, 11-24-87, Cl. 340-347.0CC.

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Wellard, Ronald G.: *See*—
Tsiakas, Nicholas; Sunter, Stephen K.; Wellard, Ronald G.; and Sasaki, Lawrence H., 4,646,289, Cl. 370-76.000.

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Hackney, Ronald J.; and Guinan, James J., 4,672,072, Cl. 514-368.000.

Wellcome Foundation Limited, The: *See*—
Whitehead, Derek J.; and Shepherd, Michael T., 4,642,230, Cl. 424-15.000.

Wellcome New Zealand Limited: *See*—
McDonald, Hamish; O'Leary, Arthur J.; and Orbell, William G., 4,666,436, Cl. 604-198.000.

Welle, Louis A., Sr.: *See*—
Gerdes, Keith W.; Corts, Douglas E.; Jenkins, Thomas E.; Lesmeister, Stephen C.; and Welle, Louis A., Sr., 4,644,698, Cl. 49-478.000.

Wellens, Ulrich: *See*—
Grauel, Christoph; Kittel, Ludwig; Schmidt, Werner; and Wellens, Ulrich, 4,697,260, Cl. 370-18.000.

Weller, Albrecht: *See*—
Moravek, Peter; Trebitz, Bernd; Weller, Albrecht; and Amsel, Klaus, 4,685,229, Cl. 38-84.000.

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Weller, Hans: *See*—
Gall, Ewald; and Weller, Hans, 4,699,035, Cl. 83-678.000.

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Weller, Harold N., III: *See*—
Gordon, Eric M.; and Weller, Harold N., III, 4,642,315, Cl. 514-307.000.

Weller, Hugo: *See*—
Becker, Rudiger; Clement, Albrecht; Virgilio, Gustav; and Weller, Hugo, 4,697,563, Cl. 123-421.000.
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Weller, John E.: *See*—
Smith, Gaylord D.; Brown, Douglas S.; Bernstein, Philip; and Weller, John E., 4,673,754, Cl. 556-137.000.

Weller, Joseph F.: *See*—
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Taylor, Henry F.; Weller, Joseph F.; and Goldberg, Lew, 4,635,246, Cl. 370-3.000.
Taylor, Henry F.; Rashleigh, Scott C.; Weller, Joseph F.; and Nosu, Kiyoshi, 4,666,255, Cl. 350-371.000.

Weller, Joseph P., to Dow Chemical Company, The. Hydrous oxide activated charcoal. 4,692,431, 9-8-87, Cl. 502-417.000.

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Welles, Kenneth B., II; Wojnarowski, Robert J.; and Eichelberger, Charles W., to General Electric Company. Television frame synchronizer with independently controllable input/output rates. 4,646,151, 2-24-87, Cl. 358-149.000.

Welles, Petrus W. G.: *See*—
Annegarn, Marcellinus J. J. C.; and Welles, Petrus W. G., 4,636,864, Cl. 358-191.100.
Steenhof, Frits A.; Welles, Petrus W. G.; Nuijten, Petrus A. C. M.; and van der Meer, Jan, 4,684,986, Cl. 358-148.000.

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Johnson, Frank, 4,652,200, Cl. 414-416.090.

Welling, Peter A., to Charles Stark Draper Laboratory, Inc., The. Waveform modulation system. 4,685,114, 8-4-87, Cl. 375-22.000.

Wellington, Daniel J.: *See*—
Gordon, Timothy M.; Stewart, Rodger L.; and Wellington, Daniel J., 4,663,125, Cl. 422-48.000.

Wellington, Scott L.: *See*—
Vinegar, Harold J.; and Wellington, Scott L., 4,635,197, Cl. 364-414.000.
Vinegar, Harold J.; and Wellington, Scott L., 4,663,711, Cl. 364-420.000.

Welliver, Paul: *See*—
McCauley, Jon R.; Smallwood, Troy L.; and Welliver, Paul, 4,645,396, Cl. 411-387.000.

Wellman, Russel E.; and Cuming, Phyllis A., to Pitney Bowes Inc. Thermal transfer ribbon including an amorphous polymer. 4,684,271, 8-4-87, Cl. 400-241.100.

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Wellman Thermal Systems Corporation: *See*—
Blackburn, Dennis R.; and Pelsor, August J., 4,700,315, Cl. 364-477.000.

Wellner, Hans: *See*—
Fait, Martin; Gunther, Thomas; Janietz, Peter; Moritz, Werner; Muller, Lothar; and Wellner, Hans, 4,699,806, Cl. 427-126.100.

Wellnitz, Keith M.: *See*—
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Fay, Gary; Mansmann, Jeffrey G.; and Wellnitz, Keith M., 4,703,390, Cl. 361-101.000.

Wells, Alton R.: *See*—
Wells, Robert M.; and Wells, Alton R., 4,635,024, Cl. 337-373.000.

Wells, Barbara J.: *See*—
Snowden, Thomas M., Jr.; and Wells, Barbara J., 4,666,547, Cl. 156-280.000.

Wells, Daryl F. Pneumatic meat saw. 4,675,944, 6-30-87, Cl. 17-23.00.

Wells, David K.: *See*—
Anthony, Bruce O., Jr.; Batalden, Glenn D.; Mitchell, Glen R.; Schloss, Phillip C.; and Wells, David K., 4,709,328, Cl. 364-200.000.

Wells, David L.; and Johnson, Allen M., to Lawman, Dennis J.; and Altringer, Richard E. Hydraulic power booster apparatus. 4,659,292, 4-21-87, Cl. 417-225.000.

Wells Electronics, Inc.: *See*—
Carter, Clyde T., 4,669,796, Cl. 439-372.000.
Carter, Clyde T., 4,678,255, Cl. 439-267.000.

Wells, Gordon: *See*—
Pollak, Henry; and Wells, Gordon, 4,658,681, Cl. 82-6.00R.

Wells, Gordon T. Footing form. 4,673,157, 6-16-87, Cl. 249-13.000.

Wells, Gregory J., to Varian Associates, Inc. Sample inlet system for an electron capture detector. 4,651,008, 3-17-87, Cl. 250-381.000.

Wells, Gregory J., to Varian Associates, Inc. Sample valve for solute modulated synchronous detection. 4,670,220, 6-2-87, Cl. 422-103.000.

Wells, Gregory J., to Varian Associates, Inc. Method and apparatus for sample confirmation in gas chromatography. 4,682,027, 7-21-87, Cl. 250-291.000.

Wells, Gregory J., to Varian Associates, Inc. Flow contoured electron capture detector cell. 4,684,807, 8-4-87, Cl. 250-381.000.

Wells, Harold D. Cooking apparatus. 4,655,126, 4-7-87, Cl. 99-386.000.

Wells, Harold D.: *See*—
Wagner, Dennis; and Wells, Harold D., 4,664,923, Cl. 426-233.000.

Wells, James R.; Portfolio, Donald C.; and Beck, Richard B., to Owens-Corning Fiberglas Corporation. Roof insulation board and method of making. 4,673,614, 6-16-87, Cl. 428-285.000.

Wells, John R.; and Grant, John W., to Du Pont de Nemours, E. I., and Company. Process for continuous separation of leukocyte/platelet-enriched fraction from whole blood. 4,663,058, 5-5-87, Cl. 210-801.000.

Wells, John R.; and Quirante, Carmelo G., to Miles Laboratories, Inc. Bottle top filter. 4,673,501, 6-16-87, Cl. 210-406.000.

Wells, Larry; and Baugh, James D., to Cummins Engine Company, Inc. Rocker arm support assembly. 4,655,177, 4-7-87, Cl. 123-90.360.

Wells, Larry: *See*—
Baugh, J. Dan; Shields, Kent; Yam, Yoke L.; and Wells, Larry, 4,653,761, Cl. 277-235.00B.

Wells, Leon W.; and Hauschild, Werner, to Cubic Corporation. Missile level sensing device. 4,713,890, 12-22-87, Cl. 33-366.000.

Wells, Norman B.: *See*—
Kowal, Leonard J.; Schwarz, Albert J.; and Wells, Norman B., 4,685,706, Cl. 285-322.000.

Wells, Oliver C., to International Business Machines Corporation. Apparatus and method for displaying hole-electron pair distributions induced by electron bombardment. 4,665,313, 5-12-87, Cl. 250-306.000.

Wells, Peter M.: *See*—
Shely, William W.; and Wells, Peter M., 4,640,479, Cl. 248-56.000.

Wells, Peter R., to Wrightcel Limited. Dispensing spigot. 4,645,100, 2-24-87, Cl. 222-505.000.

Wells, R. Leon: *See*—
Hart, Joseph D.; and Wells, R. Leon, 4,639,191, Cl. 415-196.000.

Wells, Rano R.: *See*—
Klimczak, William J.; and Wells, Rano R., 4,666,472, Cl. 55-96.000.

Wells, Raymond C.; and Hatfield, Thomas J., to Motorola, Inc. Wire saw machine. 4,655,191, 4-7-87, Cl. 125-16.00R.

Wells, Richard K.: *See*—
Miller, Larry J.; Wells, Richard K.; and Tippetts, Ronald B., 4,644,195, Cl. 307-518.000.

Wells, Robert A. Reclosable self-opening can end. 4,673,099, 6-16-87, Cl. 220-269.000.

Wells, Robert A., to Target Rock Corporation. Pressure responsive pilot actuated, modulating valve. 4,699,351, 10-13-87, Cl. 251-29.000.

Wells, Robert C.: *See*—
Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,660,961, Cl. 355-4.000.
Kuramoto, Yukimasa; Oonishi, Hajimu; Sakai, Yukio; Hayashi, Yoshiki; and Wells, Robert C., 4,697,913, Cl. 355-3.00R.

Wells, Robert M.; and Wells, Alton R. Welding method and thermostat produced. 4,635,024, 1-6-87, Cl. 337-373.000.

Wells, Sharon K.: *See*—
Holy, Stephen M., 4,682,774, Cl. 273-84.00R.

Wells, Thomas E., Sr.: *See*—
Holewinski, Robert D.; Blatherwick, William J.; Hamilton, Leslie; and Wells, Thomas E., Sr., 4,708,650, Cl. 433-90.000.

Wells, Thomas H.: *See*—
Hopkins, William M.; Bell, Perry W.; Carolla, Russell A.; Gerspacher, Jon A.; Shepler, Peter R.; and Wells, Thomas H., 4,688,617, Cl. 152-554.000.

Wells, Thomas J.; and Serafini, Angelo, to Leggett & Platt, Incorporated. Bedding and seating product having double twist coil spring and method and apparatus for manufacturing the same. 4,639,957, 2-3-87, Cl. 5-248.000.

Wells, Thomas J.; and Serafini, Angelo, to Leggett & Platt, Incorporated. Bedding and seating product having double twist coil spring and method and apparatus for manufacturing the same. 4,682,394, 7-28-87, Cl. 29-173.000.
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Higgins, Larry; and Wells, Thomas J., 4,685,162, Cl. 5-247.000.
Wells, Virginia J.; and Klein, Gerald B., to Klein, Gerald B. System for retaining and displaying business cards. 4,713,901, 12-22-87, Cl. 40-360.000.
Wells, Wayne E.: *See*—
Sale, Robert F.; and Wells, Wayne E., 4,684,110, Cl. 267-52.000.
Wells, William, to Kortec AG. Apparatus for heating charging material. 4,687,440, 8-18-87, Cl. 432-194.000.
Wells, William D.; Robinson, David M.; DeLuca, Richard M.; and Burwen, Eric D., to Varian Associates, Inc. High speed pattern generator for electron beam lithography. 4,698,509, 10-6-87, Cl. 250-492.200.
Welmers, Thomas E.; and Whitney, Theodore R., to T. R. Whitney Corporation. Scanning beam control system and method with bi-directional reference scale. 4,661,699, 4-28-87, Cl. 250-235.000.
Welner, Jerome M., to Hughes Aircraft Company. Spectral analyzer and direction indicator. 4,682,888, 7-28-87, Cl. 356-73.000.
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Hoffmann, Peter; Buschmann, Gerhard; Leichter, Hans; and Welp, Ewald, 4,676,094, Cl. 73-78.000.
Welp, Ullrich; Kramer, Willi; Girke, Michael; and Lack, Bernd, to Dr. Welp Entwicklungs-KG. Film card camera and process for manufacturing duplicate film cards. 4,634,269, 1-6-87, Cl. 355-100.000.
Welschof, Hans-Heinrich; and Schoneberger, Joachim, to Lohr & Bromkamp GmbH. Rotary constant velocity universal joint having tracks of uniform curvature. 4,698,047, 10-6-87, Cl. 464-145.000.
Welsh, Francis X.; and McBride, Desmond E., to RCA Corporation. Fault test apparatus for conductors of multiconductor cable. 4,651,084, 3-17-87, Cl. 324-51.000.
Welsh, James N., to Shirco Infrared Systems, Inc. Emergency exhaust system for hazardous waste incinerator. 4,702,178, 10-27-87, Cl. 110-193.000.
Welsh, John, to Marconi Avionics Limited. High resolution radar system. 4,688,043, 8-18-87, Cl. 342-149.000.
Welsh, Lawrence B.: *See*—
Lester, George R.; Gonczy, Stephen T.; Welsh, Lawrence B.; and Stranford, Gerald T., 4,701,316, Cl. 423-344.000.
Welsh, Richard E.: *See*—
Bennett, Douglas D.; Welsh, Richard E.; Hammesfahr, Paul D.; Francis, Earl C.; and Kopunek, Thomas V., 4,659,327, Cl. 604-135.000.
Welsh, Robert C. Microscope illuminator support. 4,690,522, 9-1-87, Cl. 350-528.000.
Welsh, Russell J.: *See*—
McKenna, William J.; Silvers, Kenneth W.; Nickerson, Rand B.; Welsh, Russell J.; Walker, Harold R.; Culliny, Joseph A.; and Stryzak, Bohdan, 4,658,290, Cl. 358-84.000.
Welsh, William A.; Parent, Yves O.; and Mertz, Stanley A., to W. R. Grace & Co. Adsorption of proteins from fluids. 4,684,530, 8-4-87, Cl. 426-330.400.
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Welter, Andre ; Leyck, Sigurd; and Etschenberg, Eugen, to A. Nattermann & Cie GmbH. Benzisoselenazolethiones and process for the treatment of various diseases in humans. 4,711,961, 12-8-87, Cl. 548-121.000.
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Cooper, James L.; and Welter, Clarence L., 4,689,716, Cl. 361-331.000.
Welter, Kenneth F. Shock absorbing assembly for an athletic shoe. 4,709,489, 12-1-87, Cl. 36-27.000.
Weltman, Joel K., to Rhode Island Hospital. Screening antibodies for capacity to deliver toxin to target cells. 4,689,311, 8-25-87, Cl. 436-519.000.
Weltmer, William R.: *See*—
Tamhankar, Satish; and Weltmer, William R., 4,713,224, Cl. 423-217.000.
Welton, Randall R.: *See*—
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Welty, Dennis L.; and Pace, W. David, to Motorola, Inc. Flip-flop having divide inhibit circuitry to change divide ratio. 4,648,103, 3-3-87, Cl. 377-52.000.
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Welygan, Dennis G.; and Zemke, Ronald O., to Minnesota Mining and Manufacturing Company. Extruded article and method of making the same. 4,634,485, 1-6-87, Cl. 156-244.110.
Welz, Martin; Czauderna, Bernhard; and Stoffel, Karl-Heinz, to BASF Aktiengesellschaft. Laminate bonded by adhesion promoting layer and adhesive layer. 4,692,373, 9-8-87, Cl. 428-285.000.
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Welzel, Gerhard: *See*—
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Welzel, Peter; Kunisch, Franz; Stein, Hermann; Hiltmann nee Ponty, Aranka; and Kruggel, Frithjof, to Hoechst Aktiengesellschaft. Moenomycin a derivatives and their use as antibiotics. 4,684,626, 8-4-87, Cl. 514-25.000.
Welzhofer, Klaus, to Siemens Aktiengesellschaft. Device for testing units containing electrical circuits. 4,636,716, 1-13-87, Cl. 324-73.00R.
Wem, James; and Brierley, Rowland J. P., to Imperial Chemical Industries plc. Centrifugal gas-liquid contact apparatus. 4,692,283, 9-8-87, Cl. 261-89.000.
Wemhoff, Mark F. Apparatus for photographic film processor pollution control. 4,640,769, 2-3-87, Cl. 210-96.100.
Wen, David D.: *See*—
Steffe, Will C.; and Wen, David D., 4,675,549, Cl. 307-311.000.
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Bondinell, William E.; Wen-Fu Ku, Thomas; and Ormsbee, Herbert S., III, 4,707,483, Cl. 514-273.000.
Wen Ho, Chung: *See*—
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Wen, Sheree H., to International Business Machines Corporation. Apparatus and method for monitoring drill bit condition and depth of drilling. 4,644,335, 2-17-87, Cl. 340-683.000.
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Wendel, Armin; Leyck, Sigurd; Wetzig, Helmut; Hager, Jorg; Durr, Manfred; and Ghyczy, Miklos, to A. Nattermann & Cie GmbH. Pharmaceutical preparation for the therapeutic treatment of rheumatic diseases. 4,687,766, 8-18-87, Cl. 514-78.000.
Wendel, Armin: *See*—
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Schulz, Volker; Leyck, Sigurd; Durr, Manfred; Ghyczy, Miklos; Wendel, Armin; and Hager, Jorg, 4,684,632, Cl. 514-78.000.
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Stephenson, Dwight B.; and Wendel, Glenn R., 4,648,803, Cl. 417-53.000.
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Wendling, Paul R.; and Sampson, Lloyd D., to Goodyear Tire & Rubber Company, The. Portable dry chemical fire extinguisher. 4,650,004, 3-17-87, Cl. 169-85.000.
Wendling, Paul R.: *See*—
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Wendling, Robert W.; Kurtz, John W.; and Perez, Juan M., to Texas Instruments Incorporated. Adjustable display stand. 4,691,886, 9-8-87, Cl. 248-183.000.
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Wendt, Alan C., to USG Corporation. Intersecting partitions adapted to support corner-mounted furniture. 4,698,946, 10-13-87, Cl. 52-275.000.
Wendt, Alan C., to United States Gypsum Company. Rounded corner ceiling runner system. 4,704,838, 11-10-87, Cl. 52-658.000.
Wendt, David L., to SSI Technologies, Inc. Oil pressure sensor. 4,674,335, 6-23-87, Cl. 73-745.000.
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Wendt, David W.; Bullis, Daniel R., Jr.; Kemp, Alan F.; and Suzda, Gregory R., to Mosinee Paper Corporation. Lock for paper towel dispenser cabinet. 4,662,664, 5-5-87, Cl. 292-19.000.
Wendt, David W.; Bullis, Daniel R., Jr.; Kemp, Alan F.; and Suzda, Gregory R., to Mosinee Paper Corporation. Metering mechanism for paper towel dispenser cabinets. 4,664,304, 5-12-87, Cl. 226-127.000.
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Westhaver, Lawrence A.; and Ruksznis, Ronald E. Method and apparatus for battery charging. 4,639,655, 1-27-87, Cl. 320-14.000.
Westhaver, Robert O.; Carow, Donald W.; and Archibald, Frank R., to Northrop Corporation. Flexure mount assembly for a dynamically tuned gyroscope. 4,655,096, 4-7-87, Cl. 74-5.00F.
Westhead, William T., to Scapa Inc. Spiral coil corrugator belt. 4,675,229, 6-23-87, Cl. 428-222.000.
Westhoff, James A.: *See*—
Ditcher, Jack; and Westhoff, James A., 4,711,455, Cl. 277-9.500.
Westhoff, William L.; and Dutton, Roger W., to Gates Rubber Company, The. Toothed belt and method with reinforcement cord. 4,652,252, 3-24-87, Cl. 474-204.000.
Westin, Jan E., to Ege Westin AB. Link arrangement. 4,665,585, 5-19-87, Cl. 16-302.000.
Westin, Johnny; Karlsson, Jan; and Abelson, Perove, to Landstingens Inkopscentral LIC, Ekonomisk Forening. Ankle joint orthosis. 4,646,726, 3-3-87, Cl. 128-80.00H.
Westinghouse Brake & Signal Co., Ltd.: *See*—
Badge, Roger; and Cowen, David W., 4,672,223, Cl. 307-3.000.
Bennett, Roger F. C., 4,712,128, Cl. 357-79.000.
Brown, Christopher R.; and Roachsmith, Humphrey, 4,641,803, Cl. 246-34.0CT.
Cowen, David W., 4,636,933, Cl. 363-98.000.
George, Terence M., 4,652,776, Cl. 307-407.000.
Poole, John D., 4,692,867, Cl. 364-426.000.
Wickham, David J., 4,644,180, Cl. 307-66.000.
Wickham, David J., 4,649,329, Cl. 318-372.000.
Wickham, David J.; Washbourn, Jack; and Cogan, Howard F., 4,651,852, Cl. 192-2.000.
Westinghouse Canada Inc.: *See*—
Vali, Enn, 4,641,021, Cl. 250-202.000.
Vali, Enn, 4,659,918, Cl. 250-202.000.
Westinghouse Electic Corp.: *See*—
Schaefer, William F.; Little, James L.; Cooper, Kenneth F.; and Easter, James R., 4,675,147, Cl. 376-245.000.
South, William H., 4,635,044, Cl. 340-638.000.
Westinghouse Electric Corp.: *See*—
Abbondanti, Alberto, 4,672,288, Cl. 318-803.000.
Abbondanti, Alberto, 4,713,743, Cl. 363-138.000.
Allen, Harvey G., 4,678,405, Cl. 417-245.000.
Allison, Ricardo A.; Gunter, John B.; Winkler, Clifford J.; Falk, Diane E.; and Chuang, Ray F., 4,649,609, Cl. 29-26.00A.
Alsop, Brian H., 4,671,927, Cl. 376-419.000.
Altman, Denis J., 4,647,422, Cl. 376-260.000.
Altman, Denis J., 4,666,657, Cl. 376-234.000.
Altman, Denis J., 4,714,584, Cl. 376-353.000.
Alvino, William M.; Fuller, Timothy J.; Cargnel, Louis A.; and Scala, Luciano C., 4,642,170, Cl. 204-181.400.
Andrews, Robert P., 4,692,976, Cl. 29-156.80B.
Antoszewski, Richard S.; Sciulli, Frank J.; Taft, Jeffrey D.; and Clements, Jack W., 4,652,133, Cl. 356-376.000.
Antoszewski, Richard S., 4,667,805, Cl. 198-345.000.
Antoszewski, Richard S.; Falise, F. Ronald; Sciulli, Francis J.; and Toto, Gregory M., 4,670,974, Cl. 29-701.000.
Antoszewski, Richard S.; and Soroka, Daniel P., 4,684,312, Cl. 414-735.000.
Appleman, Robert H., 4,640,342, Cl. 165-69.000.
Archer, David H.; Bauer, Frank I.; and Vidt, Edward J., 4,638,629, Cl. 60-39.050.
Archer, David H.; Hamm, James R.; and Vidt, Edward J., 4,667,467, Cl. 60-39.020.
Archer, David H.; and Ahmed, M. Mushtaq, 4,677,829, Cl. 60-39.020.
Armstrong, Archie E.; and East, William S., 4,669,224, Cl. 51-135.00R.
Arzenti, Thomas E.; and Pirl, William E., 4,714,289, Cl. 294-119.300.
Axelby, George S.; Geldiay, Vedat; and Moulds, Clinton W., III, 4,663,703, Cl. 364-149.000.
Bajaj, Ram, 4,707,312, Cl. 264-43.000.
Baker, Donal E., 4,694,187, Cl. 290-4.00R.
Baker, Donal E.; and Beg, Mirza A., 4,707,142, Cl. 368-46.000.
Balog, Leonard J., 4,683,108, Cl. 376-260.000.
Baric, Thomas J.; Kauric, Charles E.; and Garcia, Carl N., 4,652,418, Cl. 376-245.000.
Barry, Robert F., 4,639,591, Cl. 250-221.000.
Barry, Robert F., 4,653,002, Cl. 364-424.000.
Basnett, Robert T., 4,672,156, Cl. 200-144.00B.
Battaglia, Joseph A.; and Fleming, Robert W., 4,647,425, Cl. 376-308.000.
Beaudet, Paul R., 4,709,381, Cl. 377-62.000.
Bednar, Fred H., 4,711,754, Cl. 376-245.000.
Bein, Jeffrey D., 4,690,206, Cl. 165-81.000.
Bernard, Thomas E.; Roth, Emile M; Mohan, Edwin R.; Sherwin, Gary W.; and Zomp, John M., 4,697,598, Cl. 128-731.000.
Bialek, Edward J., 4,644,243, Cl. 318-807.000.
Bialek, Edward J.; and Anticich, Leslie B., 4,683,412, Cl. 318-798.000.
Billings, William W., 4,656,365, Cl. 307-140.000.
Billings, William W., 4,704,652, Cl. 361-5.000.
Blaushild, Ronald M.; and Veronesi, Luciano, 4,657,730, Cl. 376-285.000.
Blaushild, Ronald M.; and Rusnica, Edward J., 4,664,879, Cl. 376-352.000.
Blaushild, Ronald M., 4,711,760, Cl. 376-399.000.
Bluzer, Nathan, 4,636,980, Cl. 365-106.000.
Bluzer, Nathan; and Lampe, Donald R., 4,672,645, Cl. 377-60.000.
Boatwright, David A.; and Widener, Wade H., 4,716,018, Cl. 376-451.000.
Book, William J.; Scott, Julian C.; and Grace, James A., 4,679,113, Cl. 361-40.000.
Boomgaard, Dirk J.; Fetrow, James D.; Geis, Charles G.; Mills, Fred J.; and Neuner, James A., 4,668,465, Cl. 376-216.000.
Boundy, Bruce K.; and Miller, Craig M., 4,634,212, Cl. 339-198.00R.
Bova, Ignatius N.; Kalkbrenner, Ralph W.; and Leumann, Hans E., 4,699,750, Cl. 376-245.000.
Boyle, David E.; and Chrise, James R., 4,637,914, Cl. 376-353.000.
Boyle, Raymond F., 4,636,352, Cl. 376-419.000.
Boyle, Raymond F.; Miller, Richard S.; and Olson, Carl A., 4,652,426, Cl. 376-352.000.
Boyle, Raymond F.; and Foster, John P., 4,675,153, Cl. 376-416.000.
Bratkowski, Walter V.; and Wafer, John A., 4,680,562, Cl. 335-16.000.
Bremer, James C.; Hurt, Fred S.; Romanski, John G.; Kroupa, Richard F.; and Kraus, Ronald G., 4,713,533, Cl. 250-203.00R.
Brennen, Michael B.; and Abbondanti, Alberto, 4,644,248, Cl. 323-205.000.
Brown, David L.; and McLaurin, Leroy D., 4,648,799, Cl. 416-95.000.
Bryan, William J., 4,664,880, Cl. 376-352.000.
Bucher, George D.; and Raymond, Theodore E., 4,642,016, Cl. 414-421.000.
Bucher, George D.; Catanese, John A.; and Clawson, William D., 4,696,190, Cl. 73-865.800.
Buck, Daniel C., 4,679,012, Cl. 333-161.000.
Burke, Michael A.; and Beck, Cyril G., 4,637,448, Cl. 164-122.200.
Burns, David C.; Kauric, Charles E.; and Persang, Joseph C., 4,672,162, Cl. 219-69.00R.
Camden, Thomas M., Jr.; and Freeman, Thomas R., 4,637,915, Cl. 376-435.000.
Campbell, Ira J.; Morris, John L., Jr.; Whalen, Thomas J.; Fields, Frederick R.; and Klingenhoff, Herbert, 4,668,133, Cl. 408-81.000.

Campbell, Robert R., 4,642,641, Cl. 342-82.000.
Cantineau, Bertrand J., 4,716,014, Cl. 376-371.000.
Caputo, William R.; Husson, Alan L.; and Lee, Kenneth K., 4,656,572, Cl. 363-41.000.
Carlson, Gerald L.; Pensenstadler, David F.; Snider, Warren E.; and Byers, William A., 4,713,618, Cl. 324-438.000.
Carlson, Gerald L., 4,713,772, Cl. 364-496.000.
Carlson, Richard J.; and Kemeny, George A., 4,677,895, Cl. 89-8.000.
Carlson, William R.; Gjertsen, Robert K.; and Miller, John V., 4,683,117, Cl. 376-449.000.
Carlson, William R.; and Piplica, Eugene J., 4,716,007, Cl. 376-209.000.
Carlson, William R., 4,716,015, Cl. 376-445.000.
Carothers, Charles H.; and Sweetana, Andrew S., 4,663,692, Cl. 361-117.000.
Carris, George M., 4,690,483, Cl. 439-517.000.
Castner, Raymond P.; Olechovsky, David F.; Brown, Philip S.; Sinha, Susanta; Keller, Harold T.; and Cheng, Wenche W., 4,649,493, Cl. 364-472.000.
Cellier, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 4,687,605, Cl. 264-0.500.
Chang, George W. Y., 4,637,214, Cl. 60-687.000.
Changle, Joseph F., 4,645,891, Cl. 200-153.00G.
Cheng, Wenche W., 4,650,110, Cl. 228-242.000.
Chien, Yun-Ko N.; Wafer, John A.; and Bratkowski, Walter V., 4,654,614, Cl. 335-201.000.
Chien, Yun-Ko N.; and Wafer, John A., 4,656,446, Cl. 335-201.000.
Cho, Gyu-Hycong, 4,707,777, Cl. 363-138.000.
Cho, Gyu-Hyeong, 4,642,747, Cl. 363-54.000.
Chow, Keng C.; and Sun, Shan C., 4,698,718, Cl. 361-77.000.
Choyke, Wolfgang J.; Wood, Susan; Scala, Luciano C.; Zussman, Melvin P.; Doggrell, Leslie A.; and Lauer, Janet S., 4,711,822, Cl. 428-458.000.
Chubb, Walston, 4,650,637, Cl. 376-253.000.
Chubb, Walston, 4,684,497, Cl. 376-419.000.
Clark, Robert E.; and Amos, Dennis R., 4,633,554, Cl. 29-156.40R.
Clark, Roy A., Jr.; and Yant, Howard W., 4,703,936, Cl. 277-1.000.
Clarke, William F.; and Handlesman, Mark W., 4,657,470, Cl. 414-627.000.
Colbaugh, Michael E.; Zeigler, Rodney N.; and Batt, Theodore J., 4,666,102, Cl. 242-86.50R.
Colimitra, Thomas A., 4,683,772, Cl. 74-479.000.
Comstock, Robert J.; and Sabol, George P., 4,715,053, Cl. 378-73.000.
Connors, Herman J., Jr.; and Kramer, Francis A., 4,705,071, Cl. 137-625.300.
Conrad, Kenneth C., 4,711,007, Cl. 29-156.80R.
Cook, Bruce M.; and Gutman, Jerzy, 4,661,310, Cl. 376-259.000.
Cook, Bruce M.; and Gutman, Jerzy, 4,696,785, Cl. 376-245.000.
Cook, Charles S., 4,674,312, Cl. 72-208.000.
Cook, Henry F., 4,687,623, Cl. 376-259.000.
Cooper, Frank W., Jr.; Howard, Bruce A.; and Snyder, David A., 4,639,994, Cl. 29-402.010.
Cooper, Frank W., Jr.; and Howard, Bruce A., 4,653,164, Cl. 29-157.400.
Cooper, Frank W., Jr.; and Dailey, George F., 4,683,109, Cl. 376-261.000.
Cooper, Frank W., Jr.; Howard, Bruce A.; and Snyder, David A., 4,688,327, Cl. 29-726.000.
Cooper, John H.; and South, William H., 4,639,817, Cl. 361-62.000.
Coradi, Michael D.; and Vitalbo, Carl A., 4,692,298, Cl. 376-215.000.
Crew, Albert W.; Ghrist, William D., III; and Remley, Gilbert W., 4,692,299, Cl. 376-216.000.
Crookston, Ronald W.; and Burney, Ivan T., 4,686,337, Cl. 200-148.00F.
Cross, Michael A.; and Nichols, Edward W., 4,693,600, Cl. 356-121.000.
Cross, Michael A.; and Nichols, Edward W., 4,712,914, Cl. 356-121.000.
Csanady, Michael, Jr., 4,709,785, Cl. 184-6.400.
Dadpey, Habib; and Shero, David J., 4,684,868, Cl. 318-802.000.
Dadpey, Habib; Merlino, Paul J.; and Shero, David J., 4,697,130, Cl. 318-760.000.
Davidson, Albert C., 4,671,923, Cl. 376-285.000.
Davies, Norman; Petrisko, John D.; Filson, Allen G.; and Wobrak, Robert E., 4,650,085, Cl. 220-4.00R.
Davis, Steven B., 4,686,461, Cl. 324-157.000.
Dawawala, Suryakant K.; and LaCoste, Bernard L., 4,679,769, Cl. 251-282.000.
Dawson, Dale E.; Conti, Anthony L.; Lee, Soong H.; Shade, Gary F.; and Dickens, Lawrence E., 4,638,269, Cl. 333-164.000.
Del Vecchio, Robert M.; and Specht, Theodore R., 4,639,610, Cl. 307-83.000.
DeMario, Edmund E.; Burman, Denis L.; Olson, Carl A.; and Secker, Jeffrey R., 4,651,403, Cl. 29-450.000.
DeMario, Edmund E.; Boyle, Raymond F.; and Kuchirka, Peter J., 4,692,302, Cl. 376-439.000.
Demario, Edmund E.; Burman, Denis L.; Olson, Carl A.; and Secker, Jeffrey R., 4,716,016, Cl. 376-446.000.
Dollard, Walter J.; Doshi, Pratap K.; and George, Raymond A., 4,710,340, Cl. 376-209.000.
Doshi, Pratap K.; and Wilson, John F., 4,640,813, Cl. 376-327.000.
Doshi, Pratap K., 4,664,882, Cl. 376-423.000.
Doshi, Pratap K., 4,666,664, Cl. 376-261.000.
Drake, James A., 4,654,185, Cl. 376-205.000.
Draper, Robert; and Lorentz, Donald G., 4,635,589, Cl. 122-396.000.
Draper, Robert; Lorentz, Donald G.; Baum, Allen J.; and Economy, George, 4,637,346, Cl. 122-4.00A.
Draper, Robert; and Smith, Edward H., 4,640,233, Cl. 122-488.00.
Draper, Robert, 4,660,510, Cl. 122-31.00R.
Draper, Robert; Young, William E.; Spurrier, Francis R.; and Dilmore, James A., 4,664,986, Cl. 429-26.000.
Driggers, John M., 4,683,361, Cl. 219-10.430.
Driggers, John M., 4,700,040, Cl. 219-85.00R.
Driggers, John M.; and Pirl, William E., 4,700,053, Cl. 219-523.000.
Duncan, Robert; and Widener, Wade H., 4,709,909, Cl. 269-41.000.
Echols, John D.; and Wilson, Robert M., 4,664,178, Cl. 165-72.000.
Edwards, Charles W., 4,651,270, Cl. 363-96.000.
Edwards, Charles W., 4,674,025, Cl. 363-71.000.
Edwards, Charles W., 4,686,619, Cl. 363-126.000.
Engel, Joseph C.; Boomgaard, Dirk J.; and Vercellotti, Leonard C., 4,646,319, Cl. 375-7.000.
Engel, Joseph C., 4,674,035, Cl. 364-200.000.
England, Forrest E., 4,646,100, Cl. 343-757.000.
Erikson, Edward E., 4,671,163, Cl. 89-1.810.
Evans, Gary E., 4,638,317, Cl. 342-373.000.
Everett, James W., 4,690,172, Cl. 138-89.000.
Ezekoye, L. Ike, 4,646,782, Cl. 137-527.800.
Ezekoye, L. Ike; Rusnica, Edward J.; and Sepp, Henry A., Jr., 4,716,005, Cl. 376-205.000.
Farley, James R.; and Flick, Robert H., 4,644,122, Cl. 200-304.00.
Feichtner, John D.; and Veligdan, James T., 4,668,538, Cl. 427-248.100.
Feilchenfeld, Michal M.; and Geis, Charles G., 4,646,012, Cl. 324-208.000.
Feilchenfeld, Michal M.; and Connors, Grant R., 4,711,757, Cl. 376-258.000.
Feild, Alexander L., Jr., 4,695,476, Cl. 427-6.000.
Feild, Alexander L., Jr., 4,699,759, Cl. 376-446.000.
Fensterer, Howard F.; Klassen, William E.; Veronesi, Luciano; Boyle, David E.; and Salton, Robert B., 4,661,306, Cl. 376-209.000.
Ferrari, Harry M.; and Wilson, John F., 4,652,425, Cl. 376-352.000.
Ferrari, Harry M., 4,659,545, Cl. 376-457.000.
Ferrari, Harry M.; Boyle, Raymond F.; and Kingsbury, Fred D., Jr., 4,664,881, Cl. 376-410.000.
Ferrari, Harry M., 4,678,632, Cl. 376-462.000.
Ferrari, Harry M.; and Wilson, John F., 4,683,116, Cl. 376-447.000.
Ferrari, Harry M., 4,687,621, Cl. 376-209.000.
Ferrari, Harry M., 4,707,330, Cl. 376-457.000.
Ferree, Herbert E.; and Nottingham, Lawrence D., 4,670,029, Cl. 55-189.000.
Ferree, Herbert E.; and Nottingham, Lawrence D., 4,699,008, Cl. 73-623.000.
Fey, Maurice G.; Wolf, Charles B.; and Thunberg, Stefan L. G., 4,668,853, Cl. 219-121.0PN.
Fink, David J.; and Cooper, Frank W., Jr., 4,649,650, Cl. 33-143.00L.
Flaherty, Robert, 4,655,629, Cl. 403-291.000.
Fletcher, Roderick J., 4,667,337, Cl. 377-41.000.
Flick, Robert H.; Dennis, Lawrence D.; and Walker, Roger E., 4,713,635, Cl. 335-8.000.
Flynn, William M., 4,695,424, Cl. 376-272.000.
Freeman, Thomas R.; Wilson, John F.; and Knott, Ronald P., 4,655,995, Cl. 376-267.000.
Freeman, Thomas R., 4,678,628, Cl. 376-333.000.
Freeman, Thomas R., 4,707,329, Cl. 376-449.000.
Fromson, Robert E.; Kossowsky, Ram; and Nunamaker, Charles S., 4,640,169, Cl. 83-685.000.
Fruehan, Mark T.; Fennig, Jeffrey A.; and Kapadia, Jayant K., 4,679,508, Cl. 105-341.000.
Gallo, Frank G.; Swenson, Clark E.; Bencloski, William A.; Cassette, Angelo J.; Manno, John L.; and Parlak, Edward A., 4,716,010, Cl. 376-260.000.
Garin, John, 4,693,666, Cl. 414-744.00R.
Garin, John; Riggs, Allan J.; and Palmer, Robert S., 4,712,973, Cl. 414-744.00A.
Gasparro, Michael R.; and Tome, Richard E., 4,716,012, Cl. 376-352.000.
Gaussa, Louis W., Jr.; and Greenberg, Lesley, 4,671,919, Cl. 376-254.000.
Geohegan, Kenneth P., Jr.; and Allen, Charles W., 4,635,240, Cl. 367-89.000.
Gerlowski, Thomas J., 4,694,693, Cl. 73-168.000.
Gillett, James E.; Garner, Daniel C.; and Sherwood, Donald G., 4,687,628, Cl. 376-353.000.
Gjertsen, Robert K.; and Wilson, John F., 4,671,924, Cl. 376-285.000.
Gjertsen, Robert K.; and Wilson, John F., 4,684,499, Cl. 376-446.000.
Gjertsen, Robert K.; Shallenberger, John M.; and Wilson, John F., 4,684,500, Cl. 376-446.000.
Gjertsen, Robert K.; and Wilson, John F., 4,687,630, Cl. 376-446.000.
Gjertsen, Robert K., 4,692,304, Cl. 376-446.000.

Gjertsen, Robert K.; and Wilson, John F., 4,699,761, Cl. 376-446.000.
Gladwin, Kirk M., 4,699,201, Cl. 164-436.000.
Glasser, Albert D., 4,661,233, Cl. 204-298.000.
Glatthorn, Raymond H., 4,685,186, Cl. 29-157.400.
Gleba, James S.; Stamatien, James A.; and Fortune, Gregory B., 4,656,593, Cl. 364-492.000.
Glover, Steven L., 4,700,880, Cl. 228-180.100.
Gonnam, Russell W.; and Sun, Shan C., 4,675,774, Cl. 361-64.000.
Gonzalez, Avelino J.; Murphy, Franklin J.; Emery, Franklin T.; Weyant, Perry A.; and Craig, William G., 4,698,756, Cl. 364-557.000.
Gottlieb, Milton; and Schaff, Fredrick L., 4,639,092, Cl. 350-372.000.
Gottlieb, Milton; and Schaff, Fredrick L., 4,653,869, Cl. 350-372.000.
Goutzoulis, Anastasios P., 4,683,420, Cl. 324-73.00R.
Goutzoulis, Anastasios P., 4,686,646, Cl. 364-845.000.
Goutzoulis, Anastasios P., 4,704,702, Cl. 364-841.000.
Goutzoulis, Anastasios P., 4,714,826, Cl. 250-213.00A.
Greenberg, Lesley, 4,655,994, Cl. 376-254.000.
Groenendaal, John C., Jr.; and Brown, Boyd, 4,661,043, Cl. 415-104.000.
Grunert, Kurt A.; Walker, Roger E.; Paton, Charles R.; and Leone, David A., 4,639,564, Cl. 200-144.00R.
Grunert, Kurt A.; Walker, Roger E.; Paton, Charles R.; Leone, David A.; and Turner, David C., 4,650,940, Cl. 200-144.00R.
Grunert, Kurt A.; and Maier, Alfred E., 4,683,451, Cl. 335-174.000.
Grunert, Kurt A.; and Changle, Joseph F., 4,691,180, Cl. 335-6.000.
Grunert, Kurt A.; and Farley, James R., 4,697,163, Cl. 335-174.000.
Grunert, Kurt A.; and Schlosser, Donald E., 4,713,639, Cl. 335-172.000.
Gyugyi, Laszlo; and Gernhardt, Mark G., 4,638,238, Cl. 323-211.000.
Hackley, Thomas A., 4,653,172, Cl. 29-526.00R.
Hackstie, Louis F.; Briglia, Joseph F.; and Cohen, Albert, 4,686,403, Cl. 310-90.000.
Hager, Robert E., 4,664,870, Cl. 376-215.000.
Hager, Robert E., 4,683,105, Cl. 376-259.000.
Hancock, Bynum V., 4,714,410, Cl. 416-193.00A.
Hankinson, Michael F., 4,654,188, Cl. 376-260.000.
Hardin, Roy T., Jr., 4,649,016, Cl. 376-261.000.
Hardin, Roy T., Jr.; Pomaibo, Paul; and Scrabis, Charles M., 4,657,095, Cl. 177-132.000.
Hardin, Roy T., Jr.; and Marshall, James R., 4,690,795, Cl. 376-264.000.
Hargrove, Homer G.; Kratz, Jay L.; Sabatino, Raymond A.; and Weyant, Perry A., 4,634,044, Cl. 228-183.000.
Harkiewicz, Gary A.; and Wagener, Paul W., 4,710,703, Cl. 324-86.000.
Harman, Douglas G.; and Odor, Elbert P., 4,635,456, Cl. 72-53.000.
Hasenkopf, Joel E.; and Sutherland, James F., 4,694,415, Cl. 364-724.000.
Hawkins, Phillip J.; Kasner, William H.; and Miller, Richard A., 4,694,137, Cl. 219-121.0LC.
Healy, John T.; and Johnson, Joel W., 4,714,031, Cl. 110-109.000.
Henderson, James A.; Travlos, Constantine M.; Holland, Mark L.; Vansickle, Ronald C.; and Weixel, Mark S., 4,653,159, Cl. 29-33.00M.
Henderson, James A.; Travlos, Constantine M.; Ferris, David S.; Duddy, Gerald J.; and Mercier, Roland F., 4,683,636, Cl. 29-564.600.
Henningsen, Tom; and Gould, Theresa A., 4,693,545, Cl. 350-96.120.
Heyne, Carl J.; Hackworth, Donald T.; Docherty, Edward F.; and Shestak, Edward J., 4,672,248, Cl. 310-68.00D.
Heyne, Carl J.; and Tomasic, Nicholas A., 4,710,739, Cl. 335-174.000.
Hickam, William M.; and Snider, Warren E., 4,635,468, Cl. 73-19.000.
Higginbotham, William C., 4,698,120, Cl. 156-608.000.
Hira, Govind L.; Osial, Thaddeus A.; and Ernst, Wentworth A., 4,665,294, Cl. 219-121.0LD.
Ho, Shih-Ming; and Radford, Kenneth C., 4,683,114, Cl. 376-419.000.
Hopkins, Ronald J., 4,707,325, Cl. 376-245.000.
Hornak, Leonard P.; Meuschke, Robert E.; and Marshall, James R., 4,643,867, Cl. 376-248.000.
Hornak, Leonard P., 4,704,246, Cl. 376-260.000.
Hu, Min-Hsiung; and Hopkins, Glen W., 4,704,994, Cl. 122-32.000.
Hull, Frederick C.; and Hwang, Sun-Keun, 4,689,279, Cl. 428-679.000.
Husson, Alan L.; and Morris, Kim E., 4,650,037, Cl. 187-130.000.
Hwang, Eddie Y.; and Shung, Wu-Shi, 4,635,209, Cl. 364-494.000.
Impink, Albert J., Jr., 4,637,910, Cl. 376-216.000.
Impink, Albert J., Jr., 4,642,213, Cl. 376-218.000.
Impink, Albert J., Jr., 4,687,620, Cl. 376-209.000.
Impink, Albert J., Jr., 4,716,006, Cl. 376-209.000.
Isenberg, Arnold O., 4,648,945, Cl. 204-15.000.
Isenberg, Arnold O., 4,664,987, Cl. 429-31.000.
Isenberg, Arnold O.; and Ruka, Roswell J., 4,692,274, Cl. 252-521.000.
Isenberg, Arnold O., 4,702,971, Cl. 429-31.000.
Israelson, Gordon A., 4,692,176, Cl. 55-302.000.
Jabs, Robert H., 4,686,478, Cl. 324-420.000.
Jabs, Robert H., 4,697,461, Cl. 73-862.530.
Jacobsen, William A.; and Briggs, Richard L., 4,636,267, Cl. 148-133.000.
Jenkins, Leonard S., 4,690,612, Cl. 415-112.000.
Jeter, Howard R., 4,644,780, Cl. 73-40.50R.
Johnson, Alfred N.; and Prisco, Anthony J., 4,646,978, Cl. 241-24.000.
Johnson, Alfred N.; and Prisco, Anthony J., 4,658,142, Cl. 250-393.000.
Johnson, Frederick O., 4,639,851, Cl. 363-164.000.
Jones, Charles H.; and Kesner, John W., 4,661,938, Cl. 367-123.000.
Jones, Donald J.; Edblad, Warren A.; Pringle, Judith S.; Oravetz, David M.; and Patelunas, Joann R., 4,663,704, Cl. 364-188.000.
Jones, Donald J., 4,687,946, Cl. 290-40.00R.
Junker, Warren R., 4,668,912, Cl. 324-220.000.
Junker, Warren R.; and Burtner, Lee W., 4,704,577, Cl. 324-220.000.
Kanter, Ira E.; and Hundstad, Richard L., 4,657,738, Cl. 422-186.040.
Kapoor, Anoop, 4,639,993, Cl. 29-400.00N.
Kapoor, Anoop; Choby, Edward J.; Kramer, Thomas J.; Raniert, James E.; Roth, Charles H., Jr.; Scheffer, Donald E.; Spehar, John E., Jr.; Bessko, Csaba; and Blumstein, Robert M., 4,715,111, Cl. 29-723.000.
Kappenhagen, George A., 4,685,537, Cl. 187-103.000.
Kasner, William H.; Cooper, Martin H.; Swenson, Clark E.; Ciez, Albert P.; and Andrews, Katherine M., 4,683,365, Cl. 219-121.0LC.
Kasner, William H.; Bruck, Gerald J.; Miller, Richard A.; and Toth, Vincent A., 4,694,136, Cl. 219-121.0LD.
Kearton, William B.; Kloes, Kenneth A.; and Terry, Joel R., 4,708,844, Cl. 376-247.000.
Kemeny, George A., 4,679,484, Cl. 89-8.000.
Kemeny, George A., 4,714,003, Cl. 89-8.000.
Kemper, Christian T.; Lowenfeld, Simon; and Fox, Mark S., 4,642,782, Cl. 364-550.000.
Kemper, Christian T.; Bellows, James C.; and Kleinosky, Pamela J., 4,644,479, Cl. 364-550.000.
Kennon, Jerry M., 4,644,321, Cl. 340-310.00A.
Kennon, Jerry M.; Faulkner, James V., Jr.; and York, Theodore H., 4,649,569, Cl. 455-67.000.
Kennon, Jerry M.; and Hayden, Leland E., 4,707,679, Cl. 340-310.00A.
Kenny, Thomas J.; and Sutherland, James F., 4,644,440, Cl. 361-111.000.
Kenny, Thomas J.; and Vitalbo, Carl A., 4,651,020, Cl. 307-43.000.
Kenny, Thomas J.; and Sutherland, James F., 4,691,263, Cl. 361-58.000.
Kerrey, John S., 4,659,542, Cl. 376-442.000.
Kerrey, John S., 4,663,119, Cl. 376-446.000.
Kerrey, John S., 4,716,017, Cl. 376-446.000.
Kessinger, Boyd A., 4,636,645, Cl. 250-506.100.
Kiger, William E.; and Ferleger, Jurek, 4,676,723, Cl. 416-221.000.
Kilgore, Lee A.; and McKee, Bobby D., 4,710,665, Cl. 310-219.000.
Kimbrell, James E.; Boyd, Charles H.; Altman, David A.; Sherwood, Donald G.; and Bost, Glenn E., 4,659,539, Cl. 376-377.000.
Kirschensteiner, Fred; and Wiersema, Dale T., 4,667,124, Cl. 310-214.000.
Klapper, Kenneth K.; and Boatwright, David A., 4,641,408, Cl. 29-271.000.
Klinvex, Daniel E.; Crusi, Suzanne B.; Kepes, William E.; and Vano, Joseph A., 4,642,215, Cl. 376-249.000.
Klinvex, Daniel E., 4,643,029, Cl. 73-632.000.
Klug, Ralph W.; Toler, Charles E.; and Rylatt, John A., 4,702,878, Cl. 376-249.000.
Kobuck, Richard M.; and Kalkbrenner, Ralph W., 4,711,436, Cl. 269-40.000.
Koch, Karl C.; and Einolf, Charles W., Jr., 4,679,111, Cl. 361-31.000.
Kohn, Elliott S., 4,700,386, Cl. 380-10.000.
Krasicki, Eugene T., 4,659,896, Cl. 219-85.0BM.
Krause, Robert F.; and Rauch, Gary C., 4,645,547, Cl. 148-111.000.
Kub, Francis J., 4,704,786, Cl. 437-32.000.
Kuznetsov, Stephen B., 4,635,705, Cl. 164-466.000.
Kuznetsov, Stephen B.; and Nathenson, Richard D., 4,693,299, Cl. 164-502.000.
Kwiecinski, James R.; and Jerson, Donald D., 4,661,397, Cl. 428-241.000.
Kwon, Young J., 4,668,287, Cl. 75-84.500.
Kwon, Young J.; and Schulte, Susan M., 4,711,664, Cl. 75-84.500.
Lagally, Hermann O., 4,653,576, Cl. 165-69.000.
Lagree, James L.; and Engel, Joseph C., 4,672,227, Cl. 307-64.000.
Lahoda, Edward J.; and Eckhardt, David A., 4,676,201, Cl. 122-392.000.
Lahoda, Edward J.; Burgman, Herbert A.; and Kwon, Young J., 4,695,441, Cl. 423-347.000.
Lancaster, Dale B.; and DeMario, Edmund E., 4,657,726, Cl. 376-209.000.
Lee, Anthony, 4,636,760, Cl. 335-14.000.
Leone, David A.; and Marks, Douglas C., 4,635,011, Cl. 335-16.000.
Leone, David A.; and Marks, Douglas C., 4,654,490, Cl. 200-147.00R.
Leone, David A.; and Marks, Douglas C., 4,704,593, Cl. 337-82.000.
Levino, Andre J., 4,640,086, Cl. 57-3.000.
Li, Hung J.; and McFall, John D., 4,674,002, Cl. 361-66.000.
Li, Hung J., 4,704,653, Cl. 361-36.000.

Liberman, Irving; Liu, Chi-Sheng; and Zollweg, Robert J., 4,666,251, Cl. 350-319.000.
Lin, Kou C.; Burkhardt, Charles E.; and Sheppard, Harry R., 4,705,578, Cl. 148-108.000.
Liu, Chi-Sheng; and Feldman, Donald W., 4,661,963, Cl. 372-59.000.
Lloyd, Wayne B., 4,699,257, Cl. 188-380.000.
Locante, John, 4,653,322, Cl. 73-290.00R.
Loose, Robert A.; Schlonski, James S.; and Steinkuhler, Claude C., 4,666,662, Cl. 376-315.000.
Lott, Randy G.; and Baloh, Frank J., 4,683,103, Cl. 376-209.000.
Lowther, Gary R.; Jones, Warren W.; and Udavchak, Donald L., 4,654,550, Cl. 310-59.000.
Ludwig, Richard H.; and Mikhail, Joanne E., 4,638,889, Cl. 187-29.00R.
Lui, Chun K., 4,659,543, Cl. 376-444.000.
Lui, Chun K., 4,684,501, Cl. 376-446.000.
Machado, Octavio J.; Daugherty, David A.; Andrews, Ronnie H.; and Efferding, Larry E., 4,711,758, Cl. 376-272.000.
Mackenzie, Raymond W., 4,663,587, Cl. 324-141.000.
Mackiewicz, Ralph E.; and Kuhn, Michael A., 4,713,756, Cl. 364-200.000.
Magee, Robert D.; Asztalos, Michael J.; and Trinh, Vuong D., 4,664,877, Cl. 376-307.000.
Maier, Alfred E.; and Haggerty, David L., 4,650,946, Cl. 200-288.000.
Maier, Alfred E.; Marks, Douglas C.; and Leone, David A., 4,654,491, Cl. 200-147.00R.
Maier, Alfred E., 4,713,504, Cl. 200-146.00R.
Maier, Alfred E.; Leone, David A.; and Ricci, Louis N., 4,713,637, Cl. 335-76.000.
Makiel, Joseph M., 4,640,875, Cl. 429-30.000.
Malandra, Louis J.; Leduc, Robert J.; Hankinson, Michael F.; and Kowalski, Edward F., 4,678,623, Cl. 376-260.000.
Mallick, George T., Jr.; Wolfe, William R.; and Cumberledge, Edward L., 4,704,546, Cl. 307-355.000.
Mallick, George T., Jr.; and Heyne, Carl J., 4,704,569, Cl. 318-718.000.
Mallory, Charles W.; Watts, Ralph E.; Paladino, Joseph B.; Razor, John E.; Lilley, Arthur W.; Winston, Steven J.; and Stricklin, Billy C., 4,681,706, Cl. 252-633.000.
Mandel, Alan F.; Eichler, Kenneth M.; and Moore, William H., 4,646,058, Cl. 187-100.000.
Mandel, Alan F.; Eichler, Kenneth M.; Trosky, William J.; and Moore, William H., 4,698,780, Cl. 364-550.000.
Marchetti, Joseph R.; and Sanjana, Zal N., 4,675,350, Cl. 523-414.000.
Mark, Richard H., Jr., 4,644,336, Cl. 340-701.000.
Marquardt, Terry L., 4,712,079, Cl. 335-132.000.
Marshall, Charles H., 4,714,327, Cl. 350-504.000.
Marshall, James R.; and Hardin, Roy T., Jr., 4,678,620, Cl. 376-203.000.
Martens, Alan; and Snow, Bennie E., 4,638,630, Cl. 60-39.182.
Martin, Matthew; and Ludwig, Richard H., 4,648,488, Cl. 187-126.000.
Matsko, Joseph J.; Grunert, Kurt A.; and Terhorst, Bruce R., 4,642,726, Cl. 361-198.000.
Mattern, John; and Kadron, Don G., 4,646,098, Cl. 342-14.000.
Matty, Thomas C., 4,698,670, Cl. 358-86.000.
Matusz, John M., 4,644,908, Cl. 122-511.000.
McAtee, Kevin R.; and Alsop, Brian H., 4,699,749, Cl. 376-216.000.
McCabria, Jack L., 4,685,354, Cl. 74-785.000.
McCabria, Jack L., 4,691,119, Cl. 307-84.000.
McDaniel, Keith K., 4,664,895, Cl. 423-277.000.
McDermott, Daniel J., 4,673,008, Cl. 141-198.000.
McKee, Bobby D., 4,686,405, Cl. 310-178.000.
McKee, Bobby D., 4,698,540, Cl. 310-239.000.
McKee, Bobby D.; Cain, Michael P.; Delvecchio, Robert M.; and Aivaliotis, Emmanuel, 4,710,660, Cl. 310-178.000.
McKee, Jere L.; Majcher, John P.; Smith, William E.; and Schlosser, Donald E., 4,644,121, Cl. 200-153.00G.
McKee, Jere L.; Thomas, Glenn R.; Haugh, Charles E.; and Gula, Lance, 4,656,444, Cl. 335-16.000.
McKee, Jere L.; and Thomas, Glenn R., 4,679,018, Cl. 335-167.000.
Merkovsky, Daniel; and Gasparro, Michael R., 4,716,004, Cl. 376-203.000.
Meuschke, Robert E.; and Hornak, Leonard P., 4,647,424, Cl. 376-264.000.
Meuschke, Robert E.; Hornak, Leonard P.; and Marshall, James R., 4,650,634, Cl. 376-248.000.
Meuschke, Robert E., 4,659,068, Cl. 266-55.000.
Meuschke, Robert E.; and Mazza, Gregory E., 4,662,023, Cl. 15-104.120.
Meuschke, Robert E., 4,666,658, Cl. 376-263.000.
Meyer, Jeffry R.; Munroe, Albert P.; and Bolin, Philip C., 4,711,973, Cl. 174-14.00R.
Michael, Norman, 4,687,715, Cl. 429-41.000.
Mildrum, Claude M., 4,687,629, Cl. 376-428.000.
Mildrum, Claude M.; and Taleyarkhan, Rusi P., 4,708,845, Cl. 376-435.000.
Miler, Rajko; and Guina, Milan, 4,668,467, Cl. 376-282.000.
Milianowicz, Stanislaw A., 4,698,470, Cl. 200-288.000.
Miller, Lewis J., 4,699,566, Cl. 415-107.000.
Miller, Reno W.; and Grobmyer, Louis R., 4,711,753, Cl. 376-216.000.
Miller, Robert C.; and Gorden, Dale L., 4,635,045, Cl. 340-638.000.
Miller, Robert C.; and Asars, Juris A., 4,683,421, Cl. 324-96.000.
Miller, Robert C., 4,683,513, Cl. 361-76.000.
Miller, Robert C.; and Asars, Juris A., 4,694,243, Cl. 324-96.000.
Miller, Robert C.; and Asars, Juris A., 4,698,497, Cl. 250-231.00R.
Miller, Robert C., 4,700,131, Cl. 324-117.00H.
Millianowicz, Stanislaw A., 4,650,939, Cl. 200-144.00B.
Minard, Paul G.; Alba, James; and Pacyna, David A., 4,714,054, Cl. 122-483.000.
Moore, William G.; Jones, Warren W.; and Larue, John C., 4,656,382, Cl. 310-270.000.
Moore, William G.; and Nagoda, Louis E., 4,713,566, Cl. 310-58.000.
Moore, William H.; Gutowski, Charles M.; Trosky, William J.; and Butler, Thomas A., 4,697,243, Cl. 364-513.000.
Morris, Kim E.; and Bush, Michael F., 4,662,481, Cl. 187-77.000.
Morse, Alfred W., 4,700,108, Cl. 315-5.410.
Moulds, Clinton W., III; and Axelby, George S., 4,634,946, Cl. 318-561.000.
Mrenna, Stephen A.; and Whipple, Michael J., 4,691,182, Cl. 335-176.000.
Mrenna, Stephen A.; and Whipple, Michael J., 4,698,606, Cl. 335-45.000.
Munday, Mark L., 4,654,588, Cl. 324-103.00R.
Murphy, Glenn L.; Borona, Russell T.; and Gelzheiser, Francis L., 4,713,640, Cl. 335-194.000.
Murray, Alexander P., 4,654,170, Cl. 252-626.000.
Murray, Alexander P.; Slater, Clifton G.; and White, Robert W., 4,657,596, Cl. 134-3.000.
Murray, Alexander P.; Becker, Lawrence F., Jr.; Slater, Clifton G.; and Skriba, Michael C., 4,685,971, Cl. 134-2.000.
Mussler, James M.; and Swartz, Mark E., 4,710,758, Cl. 340-712.000.
Nakazato, Susumu, 4,711,756, Cl. 376-327.000.
Nee, John D.; and Hahn, Joseph J., 4,690,593, Cl. 408-80.000.
Neft, Charles L., 4,685,049, Cl. 363-159.000.
Neft, Charles L., 4,697,230, Cl. 363-163.000.
Nelson, Robert L.; and Ryan, Frederick M., 4,663,961, Cl. 73-24.000.
Neuner, James A.; and Boomgaard, Dirk J., 4,714,926, Cl. 340-870.360.
Newby, Richard A., 4,651,807, Cl. 165-1.000.
Nguyen, Tho Q., 4,699,756, Cl. 376-333.000.
Noe, Ronald O., 4,666,684, Cl. 423-19.000.
Nugent, John L.; Rush, George C.; and Matthews, Norman G., 4,707,665, Cl. 328-14.000.
Oates, Robert M.; Petronio, Carlo F.; and Kraus, Mark G., 4,644,270, Cl. 324-207.000.
Obley, Alan L., 4,707,628, Cl. 310-89.000.
Ochs, Garrold W., 4,636,771, Cl. 340-310.0CP.
O'Connor, Chadwell, 4,699,070, Cl. 110-246.000.
Odor, Elbert P., 4,690,592, Cl. 408-1.00R.
Orndorff, Karl B.; Baldwin, Paul L.; and Markle, Larry M., 4,699,251, Cl. 187-1.00R.
Orndorff, Karl B.; and Baldwin, Paul L., 4,708,223, Cl. 187-1.00R.
Orndorff, Karl B.; and Baldwin, Paul L., 4,711,322, Cl. 187-1.00R.
Orr, William L.; Doshi, Pratap K.; Mildrum, Claude M.; and Freeman, Thomas R., 4,642,216, Cl. 376-327.000.
Ottenheimer, Fritz, 4,653,323, Cl. 73-866.400.
Paice, Derek A.; and Edwards, Charles W., 4,674,024, Cl. 363-71.000.
Paice, Derek A., 4,698,739, Cl. 363-71.000.
Parker, Merle A.; Pregnall, Richard A.; and Ahmed, Hassan J., 4,709,579, Cl. 73-76.000.
Paton, Charles R.; and Haugh, Charles E., 4,645,890, Cl. 200-153.00G.
Paton, Charles R.; and St. Clair, Lawrence B., 4,656,322, Cl. 200-50.00A.
Paul, Gary E., 4,684,498, Cl. 376-446.000.
Paul, Gary E.; Carr, Ronald H.; and Stern, Lee W., 4,696,793, Cl. 376-447.000.
Pekarek, William R., 4,701,297, Cl. 376-260.000.
Peters, Stanley T.; Kolek, Robert L.; Guenther, Rolf A.; Anderson, Jeffrey J.; and Marshall, Clarence F., 4,701,231, Cl. 156-172.000.
Peterson, Steven H.; Lahoda, Edward J.; and Weisberg, Sharon L., 4,711,768, Cl. 423-21.500.
Petrie, Edward M.; and Bell, Clifford J., 4,699,573, Cl. 417-370.000.
Philobos, Alexander M., 4,643,276, Cl. 187-107.000.
Pillage, Lawrence T.; and Anderson, Arthur A., 4,683,989, Cl. 187-121.000.
Pisz, Frank A.; and Agliano, William S., 4,701,102, Cl. 415-136.000.
Polis, Marjorie J.; and Husson, Alan L., 4,662,480, Cl. 187-126.000.
Popa, Frank D., 4,678,629, Cl. 376-419.000.
Poyser, Thomas D.; Avery, Randall N.; Bankoske, John W.; Borst, John D.; Kimblin, Clive W.; Maxwell, Albert H.; McElroy, David W.; Peterson, Charles A.; Rostrom, Joseph R.; Smith, David R.; South, William H.; and Thomas, Michael W., 4,654,806, Cl. 364-551.000.
Pregnall, Richard A.; and LeGrand, Archie M., Jr., 4,711,854, Cl. 436-144.000.
Prisco, Anthony J.; and Johnson, Alfred N., 4,679,738, Cl. 241-101.200.
Prizzi, John J., 4,671,826, Cl. 148-11.50F.
Quayle, Bruce R., 4,713,718, Cl. 361-29.000.
Quinn, Kenneth P., 4,693,481, Cl. 277-96.200.
Rahaim, Thomas J.; and Xanthopoulos, Nicholas D., 4,693,045, Cl. 52-292.000.

Raven, Robert S., 4,638,315, Cl. 342-5.000.
Reid, Stephen R., 4,710,663, Cl. 310-214.000.
Retz, Alexander J., 4,671,518, Cl. 277-1.000.
Reuter, Howard A.; and Murphey, Dennis D., 4,651,863, Cl. 198-339.100.
Rhoton, Richard S., 4,656,950, Cl. 105-341.000.
Rieben, Stuart L., 4,659,901, Cl. 219-121.0LC.
Rieben, Stuart L.; and Wylie, Mark E., 4,660,270, Cl. 29-525.000.
Rieben, Stuart L.; and Wylie, Mark E., 4,662,051, Cl. 29-282.000.
Rieben, Stuart L.; and Wylie, Mark E., 4,672,791, Cl. 53-327.000.
Rieben, Stuart L.; and Wylie, Mark E., 4,679,377, Cl. 53-327.000.
Riggins, Oral L.; and Dyer, Thomas L., Jr., 4,672,259, Cl. 313-231.110.
Rindal, Roald A.; and McKee, Bobby D., 4,710,666, Cl. 310-248.000.
Ritz, William C., 4,645,946, Cl. 376-264.000.
Robinson, Mary A., 4,646,617, Cl. 89-1.810.
Rodgers, Eugene L.; and Stacey, Eric J., 4,698,740, Cl. 363-89.000.
Rohosky, Thomas L.; and Swidwa, Kenneth J., 4,699,753, Cl. 376-268.000.
Rohrer, Edwin H., 4,641,532, Cl. 73-637.000.
Rosa, John; and Frank, William E., 4,638,138, Cl. 219-10.770.
Rosa, John, 4,683,527, Cl. 363-5.000.
Ross, David P., 4,698,532, Cl. 310-12.000.
Rosswurm, Mark A.; and Kessler, Leland F., 4,649,537, Cl. 371-16.000.
Ryan, Frederick M.; and Nelson, Robert L., 4,652,756, Cl. 250-343.000.
Ryan, Frederick M.; Gottlieb, Milton; and Feldman, Donald W., 4,705,362, Cl. 350-372.000.
Rylatt, John A., 4,659,541, Cl. 376-442.000.
Rylatt, John A., 4,668,466, Cl. 376-245.000.
Rylatt, John A., 4,678,627, Cl. 376-313.000.
Rylatt, John A., 4,684,491, Cl. 376-203.000.
Sabatino, Raymond A., 4,685,511, Cl. 165-82.000.
Sabol, George P.; McDonald, Samuel G.; and Nurminen, John I., 4,648,912, Cl. 148-11.50F.
Sabol, George P.; and McDonald, Samuel G., III, 4,649,023, Cl. 420-422.000.
Sabol, George P.; and Barry, Robert F., 4,690,716, Cl. 148-11.50F.
Salowe, Seymour, 4,635,258, Cl. 371-16.000.
Salowe, Seymour; and Mallick, George T., Jr., 4,670,891, Cl. 377-20.000.
Savinell, Alan; and Hydeman, Jeffrey E., 4,689,994, Cl. 73-634.000.
Scala, Luciano C.; Fuller, Timothy J.; and Alvino, William M., 4,664,768, Cl. 204-181.600.
Schauder, Colin D., 4,642,751, Cl. 363-159.000.
Schauder, Colin D., 4,648,022, Cl. 363-159.000.
Schauder, Colin D.; and Heinrich, Theodore M., 4,697,131, Cl. 318-762.000.
Schauder, Colin D., 4,707,651, Cl. 318-800.000.
Schauder, Colin D., 4,713,745, Cl. 363-161.000.
Scherbarth, David W.; Scuro, Samuel J.; and Ferrentino, Gerald L., 4,658,729, Cl. 102-520.000.
Schlonski, James S., 4,654,190, Cl. 376-282.000.
Schlonski, James S.; and Burnett, Tobias W. T., 4,692,297, Cl. 376-211.000.
Schmidt, Albert L.; Sherwin, Gary W.; Blackham, Kenneth K.; and Johnson, John L., 4,706,679, Cl. 128-639.000.
Schmitz, William E., 4,697,124, Cl. 318-63.000.
Scrabis, Charles M.; and Hardin, Roy T., Jr., 4,671,920, Cl. 376-260.000.
Scrabis, Charles M.; Mazza, Gregory E.; Golick, Leonard R.; and Pomaibo, Paul, 4,711,755, Cl. 376-260.000.
Scrabis, Charles M.; Mazza, Gregory E.; Golick, Leonard R.; and Pomaibo, Paul, 4,711,759, Cl. 376-284.000.
Senger, Robert D.; Pirl, William E.; and Roth, Charles H., Jr., 4,713,952, Cl. 72-53.000.
Shallenberger, John M.; and Ferlan, Stephen J., 4,638,543, Cl. 29-426.500.
Shallenberger, John M.; and Ferlan, Stephen J., 4,638,556, Cl. 29-723.000.
Shallenberger, John M.; and Ferlan, Stephen J., 4,639,998, Cl. 29-426.500.
Shallenberger, John M.; and Ferlan, Stephen J., 4,641,409, Cl. 29-401.100.
Shallenberger, John M.; and Ferlan, Stephen J., 4,664,874, Cl. 376-261.000.
Shallenberger, John M.; and Ferlan, Stephen J., 4,664,875, Cl. 376-261.000.
Shallenberger, John M.; and Ferlan, Stephen J., 4,667,547, Cl. 82-4.00R.
Shallenberger, John M., 4,684,503, Cl. 376-446.000.
Shallenberger, John M.; and Ferlan, Stephen J., 4,688,416, Cl. 72-367.000.
Shallenberger, John M.; and Ferlan, Stephen J., 4,699,758, Cl. 376-446.000.
Shallenberger, John M.; and Ferlan, Stephen J., 4,699,760, Cl. 376-446.000.
Shaver, William E.; and Pudims, Albert A., 4,652,073, Cl. 339-103.00M.
Shero, David J.; Dadpey, Habib; and Magee, C. Scott, 4,673,859, Cl. 318-810.000.
Shero, David J.; and Dadpey, Habib, 4,695,783, Cl. 318-808.000.
Sherwin, Gary W., 4,640,290, Cl. 128-642.000.
Sherwin, Gary W., 4,678,865, Cl. 174-36.000.
Sherwin, Gary W.; and Zomp, John M., 4,679,002, Cl. 330-66.000.
Sherwin, Gary W., 4,709,702, Cl. 128-644.000.
Sherwood, Donald G.; Wilson, John F.; Salton, Robert B.; and Fensterer, Howard F., 4,692,296, Cl. 376-209.000.
Sherwood, Donald G.; Gillett, James E.; and Ekeroth, Douglas E., 4,707,331, Cl. 376-463.000.
Sherwood, Edward F.; Baldwin, Paul L.; Orndorff, Karl B.; and Dillon, Charles M., 4,635,756, Cl. 187-1.00R.
Sherwood, Edward F.; and Orndorff, Karl B., 4,712,651, Cl. 187-1.00R.
Shestak, Edward J.; and Marschik, David, 4,639,700, Cl. 335-6.000.
Shields, Edward P., 4,651,400, Cl. 29-426.500.
Shimp, Alan B.; and Paice, Derek A., 4,634,981, Cl. 324-424.000.
Shimp, Alan B., 4,639,701, Cl. 335-21.000.
Shuey, Kenneth C., 4,645,956, Cl. 307-562.000.
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Wettstein, James. Compound sine bar and method of setting an angle in a lathe. 4,651,435, 3-24-87, Cl. 33-536.000.

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Moscony, John J.; Michielutti, Thomas J.; and Wetzel, Charles M., 4,656,107, Cl. 430-5.000.
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Linz, David G.; Grier, Robert K., Jr.; Wetzel, Jennifer A.; Dada, Abdul G.; and Connolly, John D., 4,698,214, Cl. 423-260.000.

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Wevers, Hendrik W.: *See*—
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Wevers, Jean; Barrat, Christian R.; and Hardy, Frederick E., to Procter & Gamble Company, The. Homogeneous concentrated liquid detergent compositions containing a monoester of a dicarboxylic acid. 4,714,565, 12-22-87, Cl. 252-174.190.

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Wexler, Elias. Microfiche feeding mechanism. 4,650,175, 3-17-87, Cl. 271-10.000.

Wey, Edmund, to W. Schlafhorst & Co. Textile machine for producing cross-wound bobbins. 4,638,956, 1-27-87, Cl. 242-35.50A.

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Hargrove, Homer G.; Kratz, Jay L.; Sabatino, Raymond A.; and Weyant, Perry A., 4,634,044, Cl. 228-183.000.

Weyant, Robert R., to American Hospital Supply Corporation. Power system for infusion pumps. 4,692,145, 9-8-87, Cl. 604-65.000.

Weyel KG: *See*—
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Weyer, Michael: *See*—
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Weyer, Paul P. Flanged rotary actuator. 4,667,528, 5-26-87, Cl. 74-424.8NA.

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Meredith, Michael D.; Bentvelzen, Joseph M.; and Jordan, Marvin F., 4,684,442, Cl. 162-242.000.
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Remaks, William J., 4,706,850, Cl. 222-105.000.
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Selby, John S., 4,709,952, Cl. 294-82.140.
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Wislocker, Frank; and Hasenwinkle, Earl D., 4,653,560, Cl. 144-242.00E.
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Weymuth, Hans: *See*—
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Whalen, Brian. Multistate differential transmission. 4,690,016, 9-1-87, Cl. 74-687.000.

Whalen, Brian L. Torque feedback transmission. 4,637,275, 1-20-87, Cl. 74-687.000.

Whalen, Charles E.; and Hoover, Wilbur G., to Caterpillar Inc. Fluid intake screening device. 4,640,771, 2-3-87, Cl. 210-167.000.

Whalen, T. Daniel: *See*—
Tarello, William R.; Gordon, Linda A.; and Whalen, T. Daniel, 4,713,061, Cl. 604-200.000.

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Whalen, Willis B.: *See*—
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Whaley, Alvin W. Dye color control system. 4,710,993, 12-8-87, Cl. 8-158.000.

Whaley, Ernest P. Jamb plate for door closer. 4,648,151, 3-10-87, Cl. 16-71.000.

Whaley, John H., Jr. Satellite locator. 4,696,109, 9-29-87, Cl. 33-1.00B.

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Wharton, James H., to RCA Corporation. Video data display driver stage. 4,644,231, 2-17-87, Cl. 315-383.000.

Wharton, James H., to RCA Corporation. Dual feedback switching power supply regulator for isolated chassis. 4,658,342, 4-14-87, Cl. 363-21.000.

Wharton, James H.; and Smith, Lawrence E., to RCA Corporation. Raster width correction apparatus for multi scan frequency monitors. 4,677,350, 6-30-87, Cl. 315-371.000.

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Whatley, William G. Hunting device. 4,706,858, 11-17-87, Cl. 224-184.000.

Whatmore, Roger W.; and Young, Iain M., to Plessey Overseas Limited. Application of lithium tetraborate to electronic devices. 4,634,913, 1-6-87, Cl. 310-313.00A.

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heat, William R.: *See*—
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heatley, Carl F., Jr.: Neilson, John M. S.; and Russell, John P., to RCA Corporation. Vertical MOSFET with diminished bipolar effects. 4,639,754, 1-27-87, Cl. 357-23.400.

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heatley, Charles E., III; Mosley, Charles G.; and Hunt, Eugene V., to Rockwell International Corporation. Controlled oscillator having random variable frequency. 4,646,032, 2-24-87, Cl. 331-78.000.

heatley, Charles E., III: *See*—
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heatley, David J.: *See*—
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heatley, Donald G.; and Wheatley, Patricia A. Tonneau cover. 4,639,033, 1-27-87, Cl. 296-100.000.

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Palm, Charles S.; Slayton, Danny L.; Lak, Khosrow; Sampson, Peter F.; Davis, David R.; Wheatley, Maurice S., Jr.; Chatham, Gregory A.; Jones, Wayne C.; Charles, Kirk W.; and Ireland, Anthony J., 4,705,385, Cl. 355-4.000.

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Wheatley Pump and Valve, Inc.: *See*—
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Whedon, Parker: *See*—
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Wheeldon, Peter G.; and Kent, John, to Peritronic Medical Industries plc. Fluid flow control process and apparatus. 4,670,007, 6-2-87, Cl. 604-65.000.

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Wheeler, Bryce A., to Hughes Aircraft Company. Afocal beam expansion apparatus and method. 4,691,999, 9-8-87, Cl. 350-620.000.

Wheeler, C. Ray, to Richards Medical Company. Method for fabricating an arthroscopic shaver. 4,660,267, 4-28-87, Cl. 29-437.000.

Wheeler, Carl S.: *See*—
Clinkscales, Douglas L.; Long, Stephen B.; and Wheeler, Carl S., 4,664,722, Cl. 148-14.000.

Wheeler, Charles F. Steel placement assembly. 4,644,726, 2-24-87, Cl. 52-677.000.

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Wheeler, Charles F.: *See*—
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Wheeler, Claude R., to Wire Rope Corporation of America, Inc. Method for impregnating and coating wire rope. 4,635,432, 1-13-87, Cl. 57-221.000.

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Wheeler, Donald R., to Stauffer Chemical Company. Method of treating the arsenic containing filter media from phosphoric acid purification. 4,652,380, 3-24-87, Cl. 210-724.000.

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Wheeler, Gilbert A.; Church, Gregg A.; Tucker, Charles L.; and Ward, William R., to McCormick & Company, Inc. Food forming device. 4,702,687, 10-27-87, Cl. 425-227.000.

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Wheeler, Harold A.; and Friedman, Clifford H., to Hazeltine Corporation. Double-tuned disc loaded monopole. 4,635,068, 1-6-87, Cl. 343-749.000.

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Wheeler, Harold E., to Wheeler Tool Company. Rotary synchronous cross drilling attachment. 4,674,162, 6-23-87, Cl. 29-27.00C.

Wheeler, Harold R.: *See*—
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Wheeler, Harry L., to Combustion Engineering, Inc. Darlington transistor driver with reverse base drive current. 4,654,544, 3-31-87, Cl. 307-270.000.

Wheeler, James E.; Hardy, Robert M.; Dunki-Jacobs, Robert J.; and Premerlani, William J., to General Electric Company. VLSI programmable digital signal processor. 4,694,416, 9-15-87, Cl. 364-735.000.

Wheeler, James W., to Du Pont de Nemours, E. I., and Company. Photographic film containing direct positive dyes made from 3-indolizine carboxaldehyde. 4,701,398, 10-20-87, Cl. 430-510.000.

Wheeler, Michael J.; and Hart, Curtis W. Automatically scaled engine diagnostic apparatus. 4,673,883, 6-16-87, Cl. 324-384.000.

Wheeler, Ralph M.: *See*—
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Wheeler, Richard J.: *See*—
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Wheeler, Roger D.: *See*—
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Wheeler, Ronald M.: *See*—
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Whelan, Michael J. Ball cycle. 4,655,469, 4-7-87, Cl. 280-208.000.
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Whetten, Nathan R., to General Electric Company. High resolution x-ray detector. 4,707,607, 11-17-87, Cl. 250-385.000.
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Whight, Kenneth R., to U.S. Philips Corporation. Semiconductor device having an annular region for improved voltage characteristics. 4,707,719, 11-17-87, Cl. 357-53.000.
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Best, Richard A., 4,642,907, Cl. 34-48.000.
Brenner, Robert A., 4,642,908, Cl. 34-60.000.
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Chesnut, Paul B., 4,641,574, Cl. 100-229.00A.
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Eichman, Carl E.; Gurubatham, Vincent P.; Hauch, Dennis W.; and Kinyon, Garrett K., 4,700,554, Cl. 68-17.00R.
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Janke, Donald E.; and Linstromberg, William J., 4,689,965, Cl. 62-155.000.
Janke, Donald E.; and Linstromberg, William J., 4,707,684, Cl. 340-530.000.
Johanson, Robert H., 4,715,085, Cl. 15-339.000.
Johanson, Robert H.; Montgomery, Raymond M.; Herndon, Michael T.; and Peterson, Edward C., 4,715,086, Cl. 15-339.000.
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Knoop, Donald E., 4,697,293, Cl. 8-158.000.
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LeClear, Douglas D., 4,712,382, Cl. 62-150.000.
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Scriber, Chris A., 4,663,861, Cl. 34-22.000.
Sisk, George W.; Lynn, Shelby A.; Keil, John P.; and Woods, John T., 4,714,304, Cl. 312-214.000.
Spiegel, Raymond W., 4,693,526, Cl. 312-250.000.
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Tate, Ralph, Jr.; and Paddock, Stephen W., 4,665,708, Cl. 62-66.000.
Tate, Ralph, Jr.; and Woods, John T., 4,694,553, Cl. 29-445.000.
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Latacona, Michael N.; Thompson, William; and Cornell, Carl L., 4,700,060, Cl. 250-214.00R.
Reinhardt, Chrys J., 4,647,135, Cl. 339-103.00R.
Whisler, Edwin L.; Griswold, Frederick D., Jr.; and Neagle, Stuart L., to Deere & Company. Adjustable armrest with integral vehicle controls. 4,702,520, 10-27-87, Cl. 297-417.000.
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Whitaker, Herbert L., Jr.: *See*—
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White, Allan E., to RCA Corporation. Fluid manifold system. 4,712,578, 12-15-87, Cl. 137-271.000.
White, Allen A. Tub chopper. 4,693,426, 9-15-87, Cl. 241-18.000.
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Rummel, Raymond W.; and Crystal, Anthony A., 4,680,948, Cl. 68-3.00R.
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White, Mary L. N., to Dow Chemical Company, The. Halogenated ethylene-carbon monoxide interpolymers. 4,687,805, 8-18-87, Cl. 524-569.000.
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Hefner, Robert E., Jr.; and White, Mary N., 4,636,542, Cl. 523-466.000.
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Hefner, Robert E., Jr.; and White, Mary N., 4,649,190, Cl. 528-370.000.
Hefner, Robert E., Jr.; and White, Mary N., 4,699,933, Cl. 521-166.000.
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White, McNeil. Replacement pocket. 4,651,355, 3-24-87, Cl. 2-247.00.
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Potter, William D.; Kiamil, Sinan B.; and White, Nicholas D., 4,655,202, Cl. 128-90.000.
Potter, William D.; Kiamil, Sinan B.; and White, Nicholas D., 4,672,956, Cl. 128-90.000.
White, Noam, to Broken Hill Proprietary Company Limited, The. Production of fuels, particularly jet and diesel fuels, and constituents thereof. 4,645,585, 2-24-87, Cl. 208-58.600.
White, Pamela J. Pill dispensing system. 4,664,262, 5-12-87, Cl. 206-531.000.
White, Peter P.: *See*—
Hubble, Fred F., III; Bullock, Randolph H.; Cheung, Li-Fung; Crumrine, Robert E.; Martin, James P.; White, Peter P., and Zomorrodi, Mehrdad, 4,670,647, Cl. 250-214.0AG.
White, Philip D., to U.S. Philips Corporation. System identification in communications system. 4,703,324, 10-27-87, Cl. 340-825.140.
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Goegelman, Robert T.; Inamine, Edward S.; and White, Raymond F., 4,666,937, Cl. 514-450.000.
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White, Richard L., to VE Holding Corp. Anaerobic pasteurizing conditioning system. 4,667,418, 5-26-87, Cl. 34-33.000.
White, Richard L.: *See*—
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White, Richard M., to University of California, The Regents of the. Tactile sensor employing a light conducting element and a resiliently deformable sheet. 4,668,861, 5-26-87, Cl. 250-227.000.
White, Robert E.: *See*—
Mancuso, Jon R.; Fromknecht, Thomas G.; and White, Robert E., 4,702,359, Cl. 192-56.00R.
White, Robert L.: *See*—
Lee, William E., III; Bangel, James M.; White, Robert L.; and Bruno, David J., Jr., 4,645,679, Cl. 426-560.000.
Naylor, Jimmy R.; Mietus, David F.; and White, Robert L., 4,647,906, Cl. 340-347.0DA.
White, Robert S.: *See*—
Thompson, Robert A.; and White, Robert S., 4,637,248, Cl. 73-37.500.
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Schilling, James W., Jr.; White, Robert T.; and Cordell, Barbara, 4,659,805, Cl. 530-350.000.
White, Robert V.: *See*—
Barker, Charles R., III; White, Robert V.; and Bartoszek, John T., 4,669,025, Cl. 361-103.000.
White, Robert W., to General Electric Company. Methods of assembling a dynamoelectric machine. 4,642,884, 2-17-87, Cl. 29-596.000.
White, Robert W., to General Electric Company. Dynamoelectric machine. 4,705,974, 11-10-87, Cl. 310-89.000.
White, Robert W.: *See*—
Murray, Alexander P.; Slater, Clifton G.; and White, Robert W., 4,657,596, Cl. 134-3.000.
White, Rodger L.: *See*—
Sinnett, Kevin B.; and White, Rodger L., 4,670,006, Cl. 604-26.000.
White, Roger J.: *See*—
Krishnan, Sivaram; Price, Ronald L.; and White, Roger J., 4,650,823, Cl. 524-431.000.
White, Roger L., to E and E Specialties, Inc. Point-of-purchase display. 4,687,128, 8-18-87, Cl. 229-41.00R.
White, Roger P., to North American Philips Corporation. Electrically conductive materials for devices. 4,650,288, 3-17-87, Cl. 350-362.000.
White, Roger P., to North American Philips Corporation. Photosensitive electrophoretic displays. 4,686,524, 8-11-87, Cl. 340-787.000.
White, Rogers P., to North American Philips Corporation. Format for improving the readability of numeric displays. 4,700,183, 10-13-87, Cl. 340-756.000.
White, Ronald W.: *See*—
Martin, John; White, Ronald W.; and White, Johnnie L., Jr., 4,706,565, Cl. 101-151.000.
White, Rowland S., to Amphenol Corporation. Electrical connectors. 4,708,415, 11-24-87, Cl. 439-633.000.
White, Roy L. Holder for toilet paper and paper towel rolls. 4,634,067, 1-6-87, Cl. 242-55.200.
White, Rudolph C.: *See*—
Dibble, John T.; Deever, William R.; Parcell, Lloyd J.; and White, Rudolph C., 4,668,388, Cl. 210-150.000.
White Scientific Consultants Inc.: *See*—
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White, Stanley A., to Rockwell International Corporation. Complex multiplier for binary two's complement numbers. 4,680,727, 7-14-87, Cl. 364-754.000.

White, Steve R.: *See*—
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White, Thomas C. Intraocular lens. 4,661,109, 4-28-87, Cl. 623-6.000.

White, W. Gordon; and Anastos, William N., to Rule Industries, Inc. Magnetic compass. 4,656,751, 4-14-87, Cl. 33-358.000.

White, William H.: *See*—
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White, William J.: *See*—
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White, William L.; Ricciardelli, Karin L.; and Chaguturu, Munirathnam K., to Dow Chemical Company, The. Photosynthesis enhancement by substituted α-hydroxybutynoic acids and derivatives. 4,704,161, 11-3-87, Cl. 71-106.000.

White, William T.: *See*—
Daniels, Julia G.; Ledbetter, Frank E., III; Clemons, Johnny M.; Penn, Benjamin G.; and White, William T., 4,680,897, Cl. 51-281.00R.

Whited, Gary L. High voltage protection barrier. 4,707,562, 11-17-87, Cl. 174-5.00R.

Whited, James S., to Kollmorgen Technologies Corporation. Transient free solid state automatic power factor correction. 4,647,997, 2-24-87, Cl. 323-211.000.

Whited, Jerrel. Grain conveyor. 4,643,292, 2-17-87, Cl. 198-364.000.

Whited, Jerrel. Grain conveyor-total enclosed. 4,643,294, 2-17-87, Cl. 198-498.000.

Whitefield, Phillip D.: *See*—
Davis, Steven J.; Lilenfeld, Harvey V.; Neumann, David K.; and Whitefield, Phillip D., 4,653,062, Cl. 372-89.000.

Whiteford, Carlton, to Allen, Henry E.; White, Carl, Jr.; Schwartz, Mortimer; and Ziolkowski, Andrew. Seating assist device with adjustable spring assembly. 4,688,851, 8-25-87, Cl. 297-313.000.

Whitehead, Colin J.; Bratchley, Robin; and Haslop, John M., to Thomas de la Rue and Company Limited. Numbered documents. 4,645,240, 2-24-87, Cl. 283-74.000.

Whitehead, David; Duell, Graham; and Jordon, Donald, to Australian Biomedical Corporation Limited. Traction splint. 4,649,907, 3-17-87, Cl. 128-84.00C.

Whitehead, David L.; and Bhalla, Prithvi R., to American Cyanamid Co. Dinitroaniline yield enhancing agents for legumes. 4,699,646, 10-13-87, Cl. 71-77.000.

Whitehead, Derek; Lien, Charles; Walz, Herman; and Gallios, George C., to Venus Scientific Inc. Heat sink and interconnection arrangement for series connected power diodes. 4,670,817, 6-2-87, Cl. 361-388.000.

Whitehead, Derek J.; and Shepherd, Michael T., to Castex Products Limited; and Wellcome Foundation Limited, The. Release device. 4,642,230, 2-10-87, Cl. 424-15.000.

Whitehead, Edgar D. Penile prosthetic device. 4,665,903, 5-19-87, Cl. 128-79.000.

Whitehead, Edward J., to Duro Med Industries, Inc. Therapeutic hand exerciser. 4,711,445, 12-8-87, Cl. 272-67.000.

Whitehead Engineered Products, Inc.: *See*—
Bucci, George H., 4,683,864, Cl. 123-575.000.

Whitehead, Graham K.; and Taylor, Kenneth, to British Telecommunications plc. Integrated circuit chip carrier. 4,682,270, 7-21-87, Cl. 361-401.000.

Whitehead, James M. M., to RCA Corporation. Joystick control. 4,641,123, 2-3-87, Cl. 338-128.000.

Whitehead, Jerald M. Roll-up cover for open-sided trailer. 4,700,985, 10-20-87, Cl. 296-181.000.

Whitehead, Lorne A., to Canadian Patents and Development Limited. Light guide apparatus. 4,662,728, 5-5-87, Cl. 350-573.000.

Whitehead, Lorne A.: *See*—
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Whitehead, Roy A.; Chagnon, Mark S.; Groman, Ernest V.; and Josephson, Lee, to Advanced Magnetics, Inc. Magnetic particles for use in separations. 4,695,392, 9-22-87, Cl. 252-62.540.

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Whitehead, Roy A.: *See*—
Chagnon, Mark S.; Groman, Ernest V.; Josephson, Lee; and Whitehead, Roy A., 4,695,393, Cl. 252-62.540.

Whitehorn, Sydney H., to VSI Corporation. Nozzle assembly for die casting apparatus. 4,638,849, 1-27-87, Cl. 164-311.000.

Whitehorne, Gary R. Metal frame (spring puller). 4,648,165, 3-10-87, Cl. 29-225.000.

Whitehouse, Craig M.: *See*—
Luther, Ronald B.; Snyder, Daniel R.; and Whitehouse, Craig M., 4,702,735, Cl. 604-161.000.

Whitehouse, John C.: *See*—
Keklak, Ronald; Couture, Michael V.; Whitehouse, John C.; and Payne, Marshall W., 4,680,571, Cl. 340-52.00R.
Keklak, Ronald; Couture, Michael V.; and Whitehouse, John C., 4,713,885, Cl. 30-162.000.

Whitehouse, John W., to Sundstrand Corporation. Blade pitch changing mechanism. 4,671,737, 6-9-87, Cl. 416-165.000.

Whitehouse, Martin H.; and Jones, Richard E., to Byrne & Davidson Industries Limited. Drive means for roller door. 4,644,813, 2-24-87, Cl. 74-431.000.

Whitehouse, Robert S., to Scott Bader Company Limited. Epoxide resin compositions. 4,672,092, 6-9-87, Cl. 525-108.000.

Whitehurst, Darrell D.: *See*—
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Whitehurst, James L.: *See*—
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Whitelaw, Murray L.: *See*—
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Whiteley, Eric, to Maghemite Inc. Brushless D.C. dynamoelectric machine with decreased magnitude of pulsations of air gap flux. 4,710,667, 12-1-87, Cl. 310-268.000.

Whiteley, John, to Hollingsworth (U.K.) Limited. Fluid-operated ram. 4,684,074, 8-4-87, Cl. 242-18.0DD.

Whiteley, John, to Hollingsworth (U.K.) Limited. Multi-position yarn spinning/winding apparatus. 4,696,436, 9-29-87, Cl. 242-35.50R.

Whiteley, John; and Shepherd, Fred A., to Hollingsworth (U.K.) Ltd. Friction spinning roller. 4,702,068, 10-27-87, Cl. 57-401.000.

Whiteley, Neville C. Exercise apparatus. 4,647,041, 3-3-87, Cl. 272-132.000.

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Whiteley, Timothy S.: *See*—
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Whiteman, Aharon E.: *See*—
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Whiteman, Gary D. Boiling alarm. 4,673,925, 6-16-87, Cl. 340-603.000.

Whiteman, Marvin E., Jr. Concrete finishing machine having counterbalanced blade pitch adjustment apparatus. 4,673,311, 6-16-87, Cl. 404-112.000.

Whiteman, Robert N.: *See*—
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Whiteman, Robert N., Jr.: *See*—
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Whitemore, Willet F., Jr.: *See*—
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Whiteneir, Paul J. Body joint position monitoring system. 4,660,829, 4-28-87, Cl. 273-29.00A.

Whitener, Gary, to Trim-Lok, Inc. Beading profile strip. 4,695,499, 9-22-87, Cl. 428-122.000.

Whitener, Miles B., to Surface Systems, Inc. Ultrasonic depth measurement apparatus and methods. 4,679,160, 7-7-87, Cl. 364-563.000.

Whitener, Philip C., to Boeing Company, The. Composite for aircraft wing and method of making. 4,662,587, 5-5-87, Cl. 244-117.00R.

Whitener, Philip C.; and Olason, Ray, to Boeing Company, The. Double-lobe fuselage composite airplane. 4,674,712, 6-23-87, Cl. 244-119.000.

Whitesel, Terry L.: *See*—
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Whiteside, George D.: *See*—
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Johnson, Bruce K.; and Whiteside, George D., 4,688,912, Cl. 354-86.000.
Johnson, Bruce K.; Estevez, Juan; Goward, Robert M.; and Whiteside, George D., 4,707,106, Cl. 354-481.000.

Whiteside, James D., II, to Phillips Petroleum Company. Method and apparatus for accommodating temperature and pressure variations in tubular conduits. 4,635,533, 1-13-87, Cl. 91-471.000.

Whiteside, James D., II, to Phillips Petroleum Company. Apparatus for accommodating temperature and pressure variations in tubular conduits. 4,687,639, 8-18-87, Cl. 422-112.000.

Whiteside, James D., II: *See*—
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Whiteside, Robert C., to John Brown Inc. System for thermoforming articles such as picnic plates in a pair of simultaneously fed, continuous thermoplastic webs which subsequently move into nested rela-

tion, and then dually trimming the nested articles from the webs. 4,636,348, 1-13-87, Cl. 264-544.000.
Whiteside, Robert C.; Arends, Albert W.; and Karklin, Roland, to John Brown Inc. Thermoforming methods. 4,666,544, 5-19-87, Cl. 156-212.000.
Whitesides, George M.; Crans, Debbie C.; and Kazlaukas, Romas J., to Massachusetts Institute of Technology. Acyl phosphate salts and their use. 4,701,285, 10-20-87, Cl. 260-545.00P.
Whitesides, Michael G.: *See—*
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Brown, Cal R.; Gallagher, Michael T.; and Williams, Peter C., 4,714,235, Cl. 251-288.000.
Corbin, Susan E.; Brown, Cal R.; Crozier, David W.; and Williams, Peter C., 4,685,488, Cl. 137-328.000.
Linderman, Ray D.; and Williams, Peter C., 4,635,677, Cl. 137-356.000.
Linderman, Ray D.; and Williams, Peter C., 4,714,237, Cl. 251-330.000.
Williams, Peter C.; Koch, Ulrich H.; and Francis, Timothy J., 4,671,308, Cl. 137-72.000.
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Whitford, Rowland E., to Babcock & Wilcox Company, The. Low power high efficiency switching power supply. 4,669,038, 5-26-87, Cl. 363-25.000.
Whiting, Carolyn C. Marking projectile. 4,637,616, 1-20-87, Cl. 273-418.000.
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Whiting, Peter E. Mobile brush cutter. 4,713,930, 12-22-87, Cl. 56-10.800.
Whitley, Andrew. Harvester for vine type crops. 4,697,406, 10-6-87, Cl. 56-327.00R.
Whitley, Cornell, Jr.; Millen, William L.; and Trail, George C., Jr., to Celanese Corporation. Apparatus for detecting and/or controlling tension of a moving web, for example, a filamentary tow utilized in the production of cigarette filters. 4,699,606, 10-13-87, Cl. 493-4.000.
Whitley, Donald C., to Don Whitley Scientific Limited. Producing anaerobic conditions. 4,686,188, 8-11-87, Cl. 435-287.000.
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Whitley, Warwick M., II, to Attwood Corporation. Boat vent. 4,712,501, 12-15-87, Cl. 114-211.000.
Whitman, Richard E., to Retech, Inc. Rotary seal for movable shaft to eliminate breakaway friction. 4,637,032, 1-13-87, Cl. 373-69.000.
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Whitmyer, Wayne E., to Kawneer Company, Inc. Structural interface and weatherseal for structurally bonded glazing. 4,650,702, 3-17-87, Cl. 428-31.000.
Whitney, David R.; and Whitney, Ronald B., to Access Learning Technology Corporation. Software training system. 4,637,797, 1-20-87, Cl. 434-118.000.
Whitney, David R.; and Whitney, Ronald B., to Access Learning Technology Corporation. Software training system. 4,701,130, 10-20-87, Cl. 434-118.000.
Whitney, Douglass G.; and Martin, J. Kell, III. Syringe injector. 4,634,431, 1-6-87, Cl. 604-155.000.
Whitney, Duncan H.: *See—*
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Miller, Ralph A.; and Whitney, Harry B., 4,684,079, Cl. 244-137.200.
Whitney, James R. Rain drainage grooves in a road and apparatus for making them. 4,701,069, 10-20-87, Cl. 404-75.000.
Whitney, John W.; and Templeton, John H. Recovery of silver and gold. 4,662,938, 5-5-87, Cl. 75-118.00R.
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Whitney, Ralph H.; Wilde, Sheldon L.; Schetzsle, John R.; and Denman, Daniel G., to H-C Industries, Inc. Composite closure. 4,664,280, 5-12-87, Cl. 215-350.000.
Whitney, Ralph H., to Owens-Illinois, Inc. Method of forming a carbonated beverage package. 4,668,458, 5-26-87, Cl. 264-249.000.
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Whitney, Wells, to Raychem Corporation. Modular electrical heater. 4,638,150, 1-20-87, Cl. 219-543.000.
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Whittaker, Bruce E.; Jeppesen, James H., III; and Beale, Andrew W., to Burroughs Corporation. System control network for multiple processor modules. 4,658,353, 4-14-87, Cl. 364-200.000.
Whittaker, Bruce E.; Jeppesen, James H., III; and Sharp, Larry D., to Burroughs Corporation. Power control network for multiple digital modules. 4,677,566, 6-30-87, Cl. 364-492.000.
Whittaker, Bruce E.: *See—*
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Whittaker Corporation: *See—*
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Whittaker, Edward J. W., to International Standard Electric Corporation. Telephone subscribers' circuits. 4,640,993, 2-3-87, Cl. 379-383.000.
Whittaker, Edward J. W., to International Standard Electric Corporation. Shunt regulator for hands-free telephone. 4,644,579, 2-17-87, Cl. 379-388.000.
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Whittaker, Tony, to Allied Colloids Limited. Flocculants and processes for their preparation. 4,705,640, 11-10-87, Cl. 210-733.000.
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Heller, Harold H.; Oliver, Stephen N.; Whittal, John; Johncock, William; Darcy, Paul J.; and Trundle, Clive, 4,685,783, Cl. 351-163.000.
Whittam, Thomas V., to Imperial Chemical Industries PLC. Process for the preparation of zeolite Nu-27 using tetramethylmediamine. 4,645,655, 2-24-87, Cl. 423-277.000.
Whitten, Charles E.; and Pews, R. Garth, to Dow Chemical Company, The. 1-acyl-1-(2-pyridinyl)semicarbazides. 4,681,943, 7-21-87, Cl. 546-306.000.
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Whittern, Carleen C.: *See*—
Lietz, Dennis E.; and Whittern, Carleen C., 4,687,594, Cl. 252-352.000.

Whitters, Robert F.: *See*—
Cameron, Gordon M.; and Whitters, Robert F., 4,663,142, Cl. 423-532.000.

Whittier, Carl J., to Canada Fishing Tackle, Inc. Fishing lure holder. 4,703,581, 11-3-87, Cl. 43-57.100.

Whittier, Paul E., Jr.: *See*—
Van Rees, H. Barteld; and Whittier, Paul E., Jr., 4,689,094, Cl. 437-104.000.

Whittingham, Reginald P., to A & E Systems, Inc. Vehicle jack. 4,635,904, 1-13-87, Cl. 254-425.000.

Whittle, Alan J., to Imperial Chemical Industries PLC. Insecticidal alkenes. 4,705,900, 11-10-87, Cl. 568-637.000.

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Whittle, Leslie F., to Badger Company, Inc., The. Method of recovering heat from low temperature effluent. 4,695,664, 9-22-87, Cl. 585-440.000.

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Richardson, Kenneth; and Whittle, Peter J., 4,638,007, Cl. 514-340.000.
Richardson, Kenneth; and Whittle, Peter J., 4,678,789, Cl. 514-262.000.

Whittle, Rex W. J., to Astec Components, Ltd. Switching mode power supply start circuit. 4,695,936, 9-22-87, Cl. 363-21.000.

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Rossborough, Richard F.; and Whitty, Graeme, 4,711,258, Cl. 134-138.000.

Whitver, Loren K.: *See*—
Johnson, Robert D.; Havener, John W.; Reyner, Mark F.; Reyner, Franklin W., Jr.; Whitver, Loren K.; and Kilburn, Norman W., 4,697,721, Cl. 221-211.000.

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Hyner, Jacob; and Gradowski, Steven. 4,692,080, Cl. 411-387.000.
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Whyman, Robin, to Imperial Chemical Industries Limited. Production of ethylene glycol from synthesis gas. 4,665,222, 5-12-87, Cl. 560-263.000.

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Whyne, Conrad: *See*—
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Whyte, Daniel G.: *See*—
Field, Almeron J.; Johnson, Gerald L.; and Whyte, Daniel G., 4,666,341, Cl. 405-217.000.

Whyte, Ian A., to Westinghouse Electric Corp. Static VAR generator. 4,636,708, 1-13-87, Cl. 323-210.000.

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Goss, Clinton; Rosenberg, Richard; and Whyte, Peter, 4,667,290, Cl. 364-300.000.

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Chevigne, Michel; Darracq, Dominique; and Wiaux, Jean-Pol, 4,683,077, Cl. 75-233.000.

Wibel, Michelle: *See*—
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Wible, John E., to Caterpillar Industrial Inc. Fluid operated system control. 4,635,439, 1-13-87, Cl. 60-420.000.

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Schwitters, Wayne J., 4,691,506, Cl. 56-121.400.
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Wichart, Klaus, to Dr. Ing. h.c.F. Porsche Aktiengesellschaft. Variable valve control system for a piston internal-combustion engine. 4,714,057, 12-22-87, Cl. 123-90.150.

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Rossmann, Christian; Fluechter, Horst; Schreiber, Gerald; and Wichelhaus, Winfried, 4,695,396, Cl. 252-135.000.

Wichern, Rolf: *See*—
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Wichman, William J.; and Troup, Edward M., deceased (by Troup, Cathryn H., executor), to Discovery Toys, Inc. Marble race game. 4,713,038, 12-15-87, Cl. 446-168.000.

Wichmann, Brian A.: *See*—
Chorley, Bernard J.; Parkin, Graeme I. P.; Wichmann, Brian A.; and Elsom, Simon M., 4,634,807, Cl. 178-22.080.

Wichmann, James W.: *See*—
Higginbotham, Clark A.; and Wichmann, James W., 4,684,677, Cl. 523-435.000.

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Wick, Cyril, to Topshore Limited. Hatch for a boat. 4,685,411, 8-11-87, Cl. 114-202.000.

Wick, Gerhard: *See*—
Neuhaus, Clemens; Lucks, Rudiger; Breidohr, Hans G.; and Wick, Gerhard, 4,649,991, Cl. 165-159.000.

Wick, Gertrud: *See*—
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Wicke, Jean P.: *See*—
Barroyer, Paul; Foucher, Bernard; Ladent, Claude; and Wicke, Jean P., 4,676,303, Cl. 165-78.000.

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Hardee, Kim C.; Khan, Anwar U.; McEuen, Steven D.; and Wicker, David J., Jr., 4,680,762, Cl. 371-28.000.

Wicker, James H., to Specialty Manufacturing Company. Crossing control arm for vehicles. 4,697,541, 10-6-87, Cl. 116-28.00R.

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Wickers, Francis A.; and Raines, Max, to USM Corp. Method and apparatus for registering and clamping large workpieces. 4,694,766, 9-22-87, Cl. 112-262.100.

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Melton, Carl W.; Thompson, Dale G.; Vassamillet, Larry F.; and Wickersham, Charles E., 4,683,043, Cl. 204-192.150.

Wickersheim, Kenneth A.; Sun, Mei H.; and Heinemann, Stanley O., to Luxtron Corporation. Optical temperature measurement techniques. 4,652,143, 3-24-87, Cl. 374-161.000.

Wickert, Frank A., to Glidden Company, The. Clear topcoat coatings for wood. 4,683,260, 7-28-87, Cl. 524-512.000.

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Arbogast, Thomas P.; Charboneau, Ben J.; and Hair, Robert A., 4,688,825, Cl. 280-803.000.
Charboneau, Ben J., 4,654,646, Cl. 340-691.000.
Connor, Mark J.; Reinemuth, George H.; and Cleveland, Richard S., 4,693,109, Cl. 72-456.000.
Ivan, Steve D., 4,693,453, Cl. 254-323.000.
Kinsley, Ann M.; and Mansi, William A., 4,679,369, Cl. 52-155.000.
LaRocca, William J.; and Trush, David M., 4,693,135, Cl. 74-473.00R.

Wickham, David J., to Westinghouse Brake and Signal Company Ltd. Actuator emergency operation. 4,644,180, 2-17-87, Cl. 307-66.000.

Wickham, David J., to Westinghouse Brake and Signal Co., Ltd. Electric actuators. 4,649,329, 3-10-87, Cl. 318-372.000.

Wickham, David J.; Washbourn, Jack; and Cogan, Howard F., to Westinghouse Brake and Signal Company Ltd. Electrically-controlled actuators. 4,651,852, 3-24-87, Cl. 192-2.000.

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Wickham, John L.; and Fox, Jeffrey D., to J. L. Wickham Company, Inc., The. Support for precisely holding a workpiece. 4,697,799, 10-6-87, Cl. 269-32.000.

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Wicki, Heinz, to Sandoz Ltd. 1:2 metal complexes of a disazo compound having a 5-hydroxy-1-(aminophenyl)pyrazole coupling/diazo component radical and disazo compound having a 1-amino-8-hydroxynaphthalene coupling/diazo component. 4,649,194, 3-10-87, Cl. 534-693.000.

Wicki, Heinz, to Sandoz Ltd. The dyeing of leather with mixtures of trisazo and tetrakisazo compounds having 1-amino-8-hydroxynaphthalene-mono- or di-sulfonic acid biscoupling component radicals. 4,668,238, 5-26-87, Cl. 8-437.000.

Wickliff, Noble E.: *See*—
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Wicklund, L. Harvey: *See*—
Zorb, Larry D.; and Wicklund, L. Harvey, 4,691,727, Cl. 137-15.000.

Wickman, John A., to American Tourister, Inc. Wheeled suitcase and handle. 4,679,670, 7-14-87, Cl. 190-18.00A.

Wickman, John A.; and Killian, John J., III, to American Tourister, Inc. Latching device. 4,683,731, 8-4-87, Cl. 70-69.000.

Wicks, Frank E. Efficient fuel utilization system. 4,680,478, 7-14-87, Cl. 290-2.000.

Wicks, Gary W.: *See*—
Van Gieson, Edward; Wicks, Gary W.; Elias, Eric; and Eastman, Lester F., 4,700,353, Cl. 372-26.000.

Wicks, George E., Jr.: *See*—
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Sommer, Harold Z.; and Wicks, George E., Jr., 4,672,119, Cl. 546-133.000.
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Wicks, Harry O.; and Riefler, Monte P., to Railmaster System, Inc. Train of highway trailers. 4,669,391, 6-2-87, Cl. 105-4.300.

Wicks, Jack W. Lift device for an incumbent person. 4,679,265, 7-14-87, Cl. 5-445.000.

Wicks, Lani. Saddle pad to aid difficult horses. 4,669,255, 6-2-87, Cl. 54-66.000.

Wickson, Edward J., to Exxon Research & Engineering Co. Stain resistant plasticizers and compositions. 4,656,214, 4-7-87, Cl. 524-287.000.

Wicksted, Michael G.: *See*—
Rodrigues, John M.; and Wicksted, Michael G., 4,654,850, Cl. 371-25.000.

Wickwire, Ralph O.: *See*—
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Wico Corporation: *See*—
Wiczer, Max, 4,647,043, Cl. 273-121.00R.

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Wiczer, Max, 4,648,599, Cl. 273-121.00A.

Wiczer, Max, to Wico Corporation. Pinball machine with fold-down upper cabinet. 4,647,043, 3-3-87, Cl. 273-121.00R.

Wiczer, Max, to Wico Distribution Company, L. P. Pinball machine with modular display. 4,648,599, 3-10-87, Cl. 273-121.00A.

Widder, Edward S.: *See*—
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Widder, Kenneth J., to Molecular Biosystems, Inc. Method of magnetic resonance imaging of the liver and spleen. 4,675,173, 6-23-87, Cl. 424-9.000.

Widder, Rudi: *See*—
Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, 4,693,848, Cl. 260-402.000.
Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, 4,695,412, Cl. 260-507.00R.
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Bay, Herbert; Widder, Rudi; and Eckert, Guenter, 4,701,269, Cl. 252-8.570.

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Schweickardt, Karl, 4,695,769, Cl. 315-158.000.

Widegren, Tage K.; and Ericsson, Tommy T., to Nicator AB. Work rack structure. 4,660,405, 4-28-87, Cl. 72-447.000.

Widell, Larry R.: *See*—
McVey, George R.; Tornberg, Kenneth W.; Widell, Larry R.; and Wood, George E., 4,704,160, Cl. 71-92.000.

Wideman, James D.: *See*—
Niekamp, Carl W.; and Wideman, James D., 4,634,472, Cl. 127-60.000.

Wideman, Lawson G., to Goodyear Tire & Rubber Company, The. Process for the separation of 2MBA from MIPK. 4,678,544, 7-7-87, Cl. 203-95.000.

Wideman, Ronald H., to Kimberly-Clark Corporation. Method and apparatus for forming an isotropic self-adhering elastomeric ribbon. 4,696,779, 9-29-87, Cl. 264-211.130.

Widemann, Friedrich; and Goerlich, Dieter, to Webasto-Werk W. Baier GmbH & Co. Vaporization burner for a heater operated by means of liquid fuel. 4,678,431, 7-7-87, Cl. 431-328.000.

Widen, Karl-Bertil: *See*—
Gustafsson, Hans; Schwartz, Stephan; and Widen, Karl-Bertil, 4,696,910, Cl. 502-159.000.

Widen, Melinda A.: *See*—
Bradley, John J.; Stoffers, Brian L.; and Widen, Melinda A., 4,672,360, Cl. 340-347.0DD.

Widener, Lloyd. Unstable load stabilizing and handling attachment, 4,659,277, 4-21-87, Cl. 414-607.000.

Widener, M. W. Isolated molded sensor strip. 4,688,027, 8-18-87, Cl. 340-604.000.

Widener, Wade H.; and Klapper, Kenneth K., to Westinghouse Electric Corp. End plug orientation device. 4,640,407, 2-3-87, Cl. 198-389.00.

Widener, Wade H., to Westinghouse Electric Corp. Outer grid strap protruding spring repair apparatus. 4,652,421, 3-24-87, Cl. 376-260.000.

Widener, Wade H., to Westinghouse Electric Corp. Fastener locking device for attaching guide thimble to fuel assembly bottom nozzle. 4,668,469, 5-26-87, Cl. 376-446.000.

Widener, Wade H.: *See*—
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Widhalm, Michael J.; and Widhalm, Thomas G. Flip-over lamp bracket for vehicles. 4,692,845, 9-8-87, Cl. 362-80.000.

Widhalm, Thomas G.: *See*—
Widhalm, Michael J.; and Widhalm, Thomas G., 4,692,845, Cl. 362-80.000.

Widhopf, Martin, to Anton Steinecker Maschinenfabrik GmbH. Boiler for boiling mash or wort. 4,681,066, 7-21-87, Cl. 122-234.000.

Widhopf, Martin, to Steinecker Maschinefabrik GmbH, Firma. Method and apparatus for macerating and wet-crushing brewing ingredients. 4,697,748, 10-6-87, Cl. 241-62.000.

Widinski, Paul R.; and Taylor, Glenn N., to Health and Home Products. Exercising device. 4,700,943, 10-20-87, Cl. 272-96.000.

Widl, Wolfgang: *See*—
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Horvath, Imre; Niemeyer, Lutz; and Widl, Wolfgang, 4,689,451, Cl. 200-148.00B.

Widlak, Marinus C. M., to Autobedrijf de Beemd. Device for chipping wood-like material. 4,702,424, 10-27-87, Cl. 241-101.700.

Widlar, Robert J., to National Semiconductor Corporation. Power transistor emitter ballasting. 4,656,496, 4-7-87, Cl. 357-36.000.

Widlar, Robert J., to National Semiconductor Corporation. Power transistor thermal shutdown circuit. 4,669,026, 5-26-87, Cl. 361-103.000.

Widler, Hans-Jorg: *See*—
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Widlund, Leif U. R.; and Bergdahl, Sven G., to Molnlycke AB. Absorbent article. 4,634,440, 1-6-87, Cl. 604-383.000.

Widlund, Leif U. R.; and Ternstrom, Maj I., to Molnlycke AB. Absorption article such as a diaper or a sanitary napkin, and a method for the manufacture thereof. 4,692,163, 9-8-87, Cl. 604-385.00A.

Widmaier, Horst: *See*—
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Widman, Richard M., to Miron Aviv. Support wrap system for intravenous tubing. 4,671,787, 6-9-87, Cl. 604-179.000.

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Widmann, Horst: *See*—
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Widmann, Karlheinz: *See*—
Bartholomaus, Reiner; and Widmann, Karlheinz, 4,709,619, Cl. 92-130.00D.

Widmann, Richard: *See*—
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Widmayer, Don F. Transient control circuit for fluorescent lamp systems. 4,642,525, 2-10-87, Cl. 315-219.000.

Widmer, Albert X., to International Business Machines Corporation. Method of coding to minimize delay at a communication node. 4,665,517, 5-12-87, Cl. 370-86.000.

Widmer, Daniel F.: *See*—
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Widmer, David S.; and Churchill, John E., to U.S. Philips Corporation. Electrothermal atomizer. 4,647,200, 3-3-87, Cl. 356-312.000.

Widmer, David S.: *See*—
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Widmer, Dieter, to Spindel Motoren & Maschinenfabrik AG. Device for radially movably mounting a spinning or twisting spindle. 4,674,272, 6-23-87, Cl. 57-135.000.

Widmer, Erich: *See*—
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Lukac, Teodor; Soukup, Milan; and Widmer, Erich, 4,701,540, Cl. 549-341.000.

Widmer, Fred: *See*—
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Widmer, Stanley W., to Stanley Widmer Associates. Railroad track switch covers and heater. 4,671,475, 6-9-87, Cl. 246-428.000.

Widom, Steven M., to Polaroid Corporation. Sync pulse separator circuit. 4,675,734, 6-23-87, Cl. 358-153.000.

Wiebe, Kenneth J.; and Bexten, Eugen J., to J. I. Case Company. Implement wing frame folding apparatus with automatically pivoted biased latch. 4,660,654, 4-28-87, Cl. 172-776.000.

Wiebe, Kenneth J.; Harwood, J. Richard; and Martin, Russell J., to J. I. Case Company. Combined depth-control and wing-lift hydraulic circuit. 4,700,784, 10-20-87, Cl. 172-126.000.

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Wightman, William D.; and Strahan, Wilson L., to Hughes Tool Company. Casing hanger running tool. 4,712,621, 12-15-87, Cl. 166-382.000.

Wigler, Michael H.: *See*—
Axel, Richard; Wigler, Michael H.; and Silverstein, Saul J., 4,634,665, Cl. 435-68.000.

Wigley, Albert F. Gas/liquid contact device. 4,657,711, 4-14-87, Cl. 261-79.200.

Wigley, Kenneth C.; and Jeffrey, John D. Method and apparatus for working solder. 4,699,308, 10-13-87, Cl. 228-19.000.

Wigner, Lauren R.; and Pandak, Zoltan L., to General Motors Corporation. Method of making a foamed seat or cushion having integral fasteners. 4,673,542, 6-16-87, Cl. 264-46.700.

Wigness, Bruce D.; and Anderson, Michael H., to University of Minnesota, Regents of the. Bi-directional, anti-reflux vascular access system. 4,705,501, 11-10-87, Cl. 604-43.000.

Wigness, Bruce D.: *See*—
Buchwald, Henry; Guzman, Eugenio; and Wigness, Bruce D., 4,657,530, Cl. 604-9.000.
Dorman, Frank D.; and Wigness, Bruce D., 4,705,503, Cl. 604-50.000.

Wigoda, Luis. Beach trash machine. 4,698,150, 10-6-87, Cl. 209-421.000.

Wigoda, Luis T. Pill dispensing machine. 4,655,026, 4-7-87, Cl. 53-55.000.

Wigton, Kevin. Ambidextrous or left-handed magazine catch for a pistol. 4,715,902, 12-22-87, Cl. 42-7.000.

Wiholm, Sture H., to Bind-O-Matic AB. Thermal sheet binding apparatus and a method for binding of loose sheets in a folder. 4,678,386, 7-7-87, Cl. 412-8.000.

Wijayarthna, Bandula; and Newman, Glenn E., to Mallinckrodt, Inc.; and Duke University. Loop coronary catheter. 4,694,838, 9-22-87, Cl. 128-658.000.

Wijn, Jan A.; and Kool, Peter, to Pennwalt Corporation. Detoxification of waste water from dithiocarbamate manufacture. 4,655,935, 4-7-87, Cl. 210-750.000.

Wijnen, Peter J. A., to Oce-Nederland B.V. Liquid supply reservoir. 4,714,176, 12-22-87, Cl. 222-51.000.

Wijntjes, Geert; and Hercher, Michael, to Beckman Instruments, Inc. Mirror scan velocity control. 4,655,587, 4-7-87, Cl. 356-346.000.

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Wikel, James H., to Eli Lilly and Company. Dihydropyridines useful in the treatment of angina and stroke. 4,659,717, 4-21-87, Cl. 514-301.000.

Wikelski, Karl W.; and Conrad, Michael S., to El Paso Polyolefins Company. Method of reducing compressor gas leakage. 4,654,154, 3-31-87, Cl. 252-11.000.

Wikesjo, Ulf M. E.: *See*—
Terranova, Victor P.; Wikesjo, Ulf M. E.; Genco, Robert J.; Hic, Susanne; and Lyall, Raymond M., 4,702,734, Cl. 604-54.000.

Wikholm, Bert S.; Carlsson, Torsten L. T.; and Oster, Ake R., to Alfa-Laval AB. Apparatus for fermentation of organic material. 4,698,310, 10-6-87, Cl. 435-316.000.

Wiklund, Klas R., to Nicator AB. Arrangement for measuring wheel alignment and steering geometry in an automobile. 4,690,557, 9-1-87, Cl. 356-155.000.

Wiktor, Dominik M. Catheter arrangement having a blood vessel liner, and method of using it. 4,681,110, 7-21-87, Cl. 128-343.000.

Wiktor, Donimik M. Catheter arrangement having a variable diameter tip and spring prosthesis. 4,649,922, 3-17-87, Cl. 128-344.000.

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Wiktorski, Chester: *See*—
Longo, Paul; Longo, Nicholas; and Wiktorski, Chester, 4,650,141, Cl. 248-118.000.

Wilary, Frank J.: *See*—
Kraska, Robert E.; Wilary, Frank J.; and Lessar, Joseph F., 4,678,868, Cl. 174-152.0GM.

Wilbanks International, Inc.: *See*—
Ormiston, Thomas J.; and Rulis, Dean A., 4,671,740, Cl. 416-241.00B.

Wilber, James A., to RCA Corporation. Vertical deflection circuit with service mode operation. 4,694,226, 9-15-87, Cl. 315-408.000.

Wilber, William E. Canvas adapter alarm. 4,698,615, 10-6-87, Cl. 340-63.000.

Wilbur Curtis Company, Inc.: *See*—
Stoner, Arthur L., 4,715,269, Cl. 99-279.000.

Wilchek, Meir: *See*—
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Warshawsky, Abraham; Wilchek, Meir; Altman, Janina; and Shoef, Nurit, 4,652,519, Cl. 435-7.000.

Wilcke, Winfried W.: *See*—
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Wilcock, Donald F.: *See*—
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Wilcockson, Brian: *See*—
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Wilcox, Allen D.: *See*—
Labrum, Joseph H.; and Wilcox, Allen D., 4,636,718, Cl. 324-77.00K.
Labrum, Joseph H.; and Wilcox, Allen D., 4,648,135, Cl. 455-619.000.

Wilcox, Anne S.; and Cooley, Gloria L., to Sungene Technologies Corporation. Sunflower regeneration through organogenesis. 4,673,648, 6-16-87, Cl. 435-240.000.

Wilcox, Anne S.: *See*—
Cooley, Gloria L.; and Wilcox, Anne S., 4,670,391, Cl. 435-240.000.
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Wilcox, Arnold G., Jr.; and Shah, Gopal, to Fairchild Incorporated. Apparatus for continuously conveying coal from a continuous miner to a remote floor conveyor. 4,646,906, 3-3-87, Cl. 198-303.000.
Wilcox, Arnold G., Jr.; and Plumley, Roger D., to Fairchild International, Inc. Continuous mining machine. 4,669,560, 6-2-87, Cl. 180-9.100.
Wilcox, Gilbert M. Double balloon nasobiliary occlusion catheter for treating gallstones and method of using the same. 4,696,668, 9-29-87, Cl. 604-28.000.
Wilcox, John A.: *See*—
Harris, Patrick C.; and Wilcox, John A., 4,691,029, Cl. 549-79.000.
Wilcox, John R., to Top Shelf Company, Inc. Shelf system for appliance. 4,713,949, 12-22-87, Cl. 68-235.00R.
Wilcox, Lawrence A., to Magnetic Peripherals Inc. Center pole for rotary actuator coil with lowered inductance. 4,652,779, 3-24-87, Cl. 310-13.000.
Wilcox, Melvin S., to Aircraft Specialties, Inc. Vehicle interior door panel removal tool. 4,688,761, 8-25-87, Cl. 254-104.000.
Wilcox, Michael J.: *See*—
Cotton, Leonard; Nay, Barry; and Wilcox, Michael J., 4,683,219, Cl. 502-304.000.
Wilcox, Milton E., to National Semiconductor Corporation. Sampled data amplitude linear phase detector. 4,642,489, 2-10-87, Cl. 307-514.000.
Wilcox, Orland W., to Gentex Corporation. Mask for pressure breathing. 4,677,977, 7-7-87, Cl. 128-206.240.
Wilcox, Paul A. Spot welder with electrode clamp. 4,656,327, 4-7-87, Cl. 219-86.210.
Wilcox, Robert B. Breath transfer device. 4,683,869, 8-4-87, Cl. 126-204.000.
Wilcox, Robert D., Jr. Drill guide apparatus and method. 4,669,926, 6-2-87, Cl. 408-1.00R.
Wilcox, Roger H. Adjustable room partition. 4,638,614, 1-27-87, Cl. 52-238.100.
Wilcox, Roger V.: *See*—
Bell, R. Frank; and Wilcox, Roger V., 4,669,003, Cl. 360-77.000.
Fasen, Donald J.; and Wilcox, Roger V., 4,700,244, Cl. 360-77.000.
Knowles, Vernon L.; Wilcox, Roger V.; and Jackson, Bruce J., 4,688,118, Cl. 360-75.000.
Wilcox, Roy, to Roy's Toys, Inc. Hobby horse. 4,657,098, 4-14-87, Cl. 180-8.100.
Wilcox, Russell B., to United States of America, Energy. Pulse shaping with transmission lines. 4,667,161, 5-19-87, Cl. 328-65.000.
Wilcox, Thomas J. Fluid-operated reciprocating motor. 4,674,397, 6-23-87, Cl. 91-235.600.
Wilczak, Boguslaw G.; Wilkins, Edward V.; and Wu, Alexander F., to General Electric Company. Method of dispersing fluoroplastics in polymeric compositions. 4,647,602, 3-3-87, Cl. 523-204.000.
Wilczak, Lynn A.: *See*—
Brelsford, David P.; Cerutti, Daniel D.; Coleman, Leslie S.; Davison, Gerald A.; Dewey, Pamela H.; Enichen, Margaret C.; Hartley, Sarah T.; Malinowski, Paul A.; Rogers, Roger W.; Tallman, Peter H.; and Wilczak, Lynn A., 4,674,038, Cl. 364-200.000.
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Wild, Alan G.: *See*—
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Wild, Ernst: *See*—
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Wild, Gene M.: *See*—
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Wild, Georg: *See*—
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Gaechter, Bernhard; Braunecker, Bernhard; and Muller, Fritz, 4,715,714, Cl. 356-375.000.
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Wild, Peter: *See*—
Franke, Gunter; Ockelmann, Dieter; Raue, Roderich; and Wild, Peter, 4,710,569, Cl. 544-31.0.0.
Wild, Wolfgang; Straub, Joachim; and Landgraf, Gunter, to W. C. Heraeus GmbH. Microwave stable tableware. 4,713,512, 12-15-87, Cl. 219-10.55E.
Wildblood, Robin; and Harcourt, Michael D., to General Electric Company, p.l.c., The. Electrical connectors. 4,668,042, 5-26-87, Cl. 339-176.00M.
Wilde, Eugen: *See*—
Goessler, Gerhard; Schreder, Felix; and Wilde, Eugen, 4,700,05[illegible] Cl. 219-464.000.
Wilde, Herbert J.; and Mengelkoch, James F., to Research, Incorporated. Dry film curing machine with ultraviolet lamp controls. 4,665,627, 5-19-87, Cl. 34-4.000.
Wilde, Peter V. D., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Fiber waveguide coupling device. 4,659,175, 4-21-87, Cl. 350-96.200.
Wilde, Ronald J.: *See*—
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Wilde, Ruediger, to Siemens Aktiengesellschaft. Method for micropack production. 4,667,402, 5-26-87, Cl. 29-840.000.
Wilde, Sheldon L.; and Morton, Hugh V., Jr., to H-C Industries, Inc. Plastic closure with structural thread formation. 4,674,643, 6-23-87, Cl. 215-252.000.
Wilde, Sheldon L.: *See*—
Whitney, Ralph H.; Wilde, Sheldon L.; Schetzsle, John R.; and Denman, Daniel G., 4,664,280, Cl. 215-350.000.
Wildemeersch, Dirk A. A. Instrument for suprapubic drainage of the bladder, inserted through the urethra. 4,684,369, 8-4-87, Cl. 604-272.000.
Wildemeersch, Dirk A. A. Intrauterine contraceptive device and device for its insertion and fixation to the uterus. 4,708,134, 11-24-87, Cl. 128-130.000.
Wildenradt, Carl H. Single cylinder deadbolt lock mechanism. 4,709,566, 12-1-87, Cl. 70-129.000.
Wilder, Joseph, to Object Recognition Systems, Inc. Electro-optical quality control inspection of elements on a product. 4,642,813, 2-10-87, Cl. 382-8.000.
Wilder, Martin S., to Centerchem, Inc.; and Pentapharm AG. Method for alleviating skin irritation by formulations containing superoxide dismutase. 4,695,456, 9-22-87, Cl. 424-94.500.
Wilder, Peggy L.; and Wilder, Robert G. Vibration monitoring system and apparatus. 4,665,393, 5-12-87, Cl. 340-683.000.
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Wilder, Peggy L.; and Wilder, Robert G., 4,665,393, Cl. 340-683.000.
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Wildi, Eric J.; and Kohl, James E., to General Electric Company. High voltage semiconductor devices electrically isolated from an integrated circuit substrate. 4,661,838, 4-28-87, Cl. 357-23.800.
Wilding, Edwin L.: *See*—
Bultman, Marten; and Wilding, Edwin L., 4,708,278, Cl. 198-835.000.
Wildman, Gary C.; Wirth, Frank; and Surpuriya, Vijay, to Scholl, Inc. Shoe insole. 4,642,912, 2-17-87, Cl. 36-44.000.
Wildman, Kelvin H.: *See*—
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Wildmoser, Alfred: *See*—
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Wildt, Theodor N., to Minnesota Mining and Manufacturing Company. Anti-theft device for compact discs. 4,709,813, 12-1-87, Cl. 206-312.000.
Wileman, Ben C., III, to Wileman Industries, Inc. Marine safety system. 4,697,535, 10-6-87, Cl. 114-183.00R.
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Wileman, Ben C., III, 4,697,535, Cl. 114-183.00R.
Wiles, Keith E., to National Can Corporation. Container having a tamper proof lid. 4,682,707, 7-28-87, Cl. 220-307.000.
Wiles, Laurence E.; and Paige, Frank C., III, to Specialty Packaging Products, Inc. Means for mounting and locking a screw threaded closure in a predetermined position. 4,669,624, 6-2-87, Cl. 215-330.000.
Wiley, Carl A., to Hughes Aircraft Company. Passive frequency scanning radiometer. 4,654,666, 3-31-87, Cl. 342-351.000.
Wiley, Dan W.: *See*—
Gelinas, William A.; Hoitz, Edwin R.; Argazzi, Dennis J.; Smigel, Robert L.; and Wiley, Dan W., 4,661,190, Cl. 156-273.500.
Wiley, Edward R. Quick change mechanism for circular saw blades and other spinning disc devices. 4,657,428, 4-14-87, Cl. 403-359.000.
Wiley, Edward R. Quick change mechanism for diamond arbor circular saw blades and other spinning disc devices. 4,706,386, 11-17-87, Cl. 30-388.000.
Wiley, John W.; Brower, Charles H.; and Wang, David, to Mannington Mills, Inc. Process for manufacturing decorative surface coverings. 4,675,212, 6-23-87, Cl. 427-244.000.

Wiley, Lawrence V.: *See*—
Haren, Doyle V.; and Wiley, Lawrence V., 4,691,432, Cl. 29-527.200.
Wiley, Richard, to Taliq Corporation. Double layer display. 4,693,560, 9-15-87, Cl. 350-335.000.
Wiley, Robert T., to Tex-nology Systems, Inc. Method and apparatus for wiring a sheet of fabric. 4,703,705, 11-3-87, Cl. 112-265.100.
Wiley, Ronald L.; and Iwans, Robert C., to Coca-Cola Company, The. Agitator assembly for the refrigeration system of a beverage dispenser. 4,674,656, 6-23-87, Cl. 222-129.100.
Wilfert, Ronald A., to Identification Systems Company L.P. Method of making an identification card. 4,687,526, 8-18-87, Cl. 156-64.000.
Wilfley, Brian P.: *See*—
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Wilfong, Harry B., Jr.: *See*—
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Wilger, John F.; Orillo, Stephen, Jr.; and Nakano, Gregory S., to United States of America, Navy, Sealing apparatus for a valve body opening. 4,682,631, 7-28-87, Cl. 138-94.000.
Wilger, Wilfed H. Variable height field sprayer frame. 4,709,857, 12-1-87, Cl. 239-164.000.
Wilhelm Bogle KG: *See*—
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Wilhelm Dahle Büro- und Zeichengeratefabrik: *See*—
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Wilhelm, Earl E., to Boeing Company, The. Selectable deployment mode fragment warhead. 4,655,139, 4-7-87, Cl. 102-494.000.
Wilhelm, Earl E.; and Zimmerschied, Alan B., to Boeing Company, The. Selectable initiation-point fragment warhead. 4,658,727, 4-21-87, Cl. 102-494.000.
Wilhelm, Earl E.; and Julien, Clayton J., to Boeing Company, The. Low velocity disc pattern fragment warhead. 4,662,281, 5-5-87, Cl. 102-494.000.
Wilhelm Fette GmbH: *See*—
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Wilhelm, John J.; Calhoun, Gregory L.; Dawson, Paul H.; and Kramer, Arthur W., to Westinghouse Electric Corp. Non-bolted ringless nozzle dam. 4,637,588, 1-20-87, Cl. 251-280.000.
Wilhelm, John J.; Burack, Robert D.; Klorcyzk, Fredrick J.; and Crossley, Thomas J., to Westinghouse Electric Corp. Dual seal nozzle dam and alignment means therefor. 4,671,326, 6-9-87, Cl. 138-93.000.
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Wilhelm, Wilhelm; and Sehrig, Peter, to Siemens Aktiengesellschaft. Bipolar logical circuit arrangement for signal regeneration. 4,634,994, 1-6-87, Cl. 330-260.000.
Wilhelm, Wilhelm, to Siemens Aktiengesellschaft. Circuit for reading bipolar storage cells. 4,641,283, 2-3-87, Cl. 365-190.000.
Wilhelmi, Herbert; Kegel, Kurt; Conradty, Claudio; Zollner, Dieter; Lauterbach-Dammler, Inge; and Rittmann, Friedrich, to C. Conradty Nurnberg GmbH & Co. KG. Method and device for the melting and heating of materials. 4,675,878, 6-23-87, Cl. 373-90.000.
Wilhelmi, Herbert; Kegel, Kurt; Zollner, Dieter; Lauterbach-Dammler, Inge; Taube, Thomas; and Rittman, Friedrich, to C. Conradty Nurnberg GmbH & Co. KG. Plasma burner with replaceable consumable electrodes. 4,710,607, 12-1-87, Cl. 219-121.00P.
Wilhelmi, Juergen, to Heinrich Wilhelmi GmbH & Co. Metal fitting. 4,711,593, 12-8-87, Cl. 403-187.000.
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Wilhelmson, Jack L.; and Postlewait, Lester B., to Cooper Industries, Inc. Calibrated probe for temperature measuring. 4,673,300, 6-16-87, Cl. 374-182.000.
Wilhelmsson, Gunnar, to Flakt AB. Method and apparatus for preheating scrap in a bucket. 4,666,402, 5-19-87, Cl. 432-24.000.
Wilhelmy, Egon, to Ford Motor Company. Selector shaft return guide for a multiple speed transmission. 4,704,916, 11-10-87, Cl. 74-475.000.
Wilhide, Robert A. Adjustable bow sight mount. 4,660,289, 4-28-87, Cl. 33-247.000.
Wilhite, Douglas L.; and Mickewich, Daniel J., to Du Pont de Nemours, E. I., and Company. Splash-prepared silver halide emulsions with a uniform particle size distribution. 4,678,744, 7-7-87, Cl. 430-569.000.
Wilke, Detlef: *See*—
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Wilke, Gerhard. Starch-based dry product in the form of flakes, bits, or grains in porous bags for making dumplings. 4,645,675, 2-24-87, Cl. 426-113.000.
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Wilke, Raud A., to Husco International, Inc. Post pressure compensated unitary hydraulic valve. 4,693,272, 9-15-87, Cl. 137-596.000.
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Wilkening, Siegfried, to Vereinigte Aluminium-Werke Aktiengesellschaft. Method and apparatus for the thermal production of metal carbides and metals. 4,635,273, 1-6-87, Cl. 373-120.000.
Wilkens, Arnold J. Sportsman's tool handle. 4,672,745, 6-16-87, Cl. 30-340.000.
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Bohm, August; Lentz, Gerhard; and Wilkens, Gunter, 4,693,761, Cl. 148-9.00R.
Wilkens, Jochen, to Hag GF Aktiengesellschaft. Process for separating caffeine from caffeine-loaded active carbon. 4,673,743, 6-16-87, Cl. 544-275.000.
Wilkens, Robert G. Explosion-protected diesel engine. 4,671,060, 6-9-87, Cl. 60-319.000.
Wilkerson, Charles W.: *See*—
Brainerd, Henry A.; Wilkerson, Charles W.; and Tyhurst, John R., 4,688,589, Cl. 137-13.000.
Wilkerson Corporation: *See*—
Bull, Walter E., 4,696,320, Cl. 137-116.500.
Van Steenburgh, Leon R., Jr., 4,689,969, Cl. 62-474.000.
Wilkerson, James R., to Cincinnati Milacron Inc. Interference detector for laser cutting machine. 4,711,985, 12-8-87, Cl. 219-121.0LB.
Wilkerson, James W. Apparatus for treating the marginal edge portion of a shoe sole. 4,663,792, 5-12-87, Cl. 12-86.500.
Wilkerson, Jerry F. Combined trailer and vehicle bridge. 4,662,020, 5-5-87, Cl. 14-2.400.
Wilkerson, Wendell W., to Du Pont de Nemours, E. I., and Company. Antiinflammatory-2-halo-4,5-diarylpyrroles. 4,652,582, 3-24-87, Cl. 514-427.000.
Wilkerson, William E. Canisters for pressurized gas and personal security devices utilizing same. 4,667,851, 5-26-87, Cl. 222-47.000.
Wilkes, Donald F., to Heinrichs, Vern. Differential having a generally spherical differencing element. 4,713,976, 12-22-87, Cl. 74-190.000.
Wilkes, James M.: *See*—
Waldie, Arthur H.; Gillum, Marvis N.; and Wilkes, James M., 4,649,738, Cl. 73-38.000.
Wilkes, Louis H. Tail shortener for cylinder and dial knitting machines for knitting ribbed socks. 4,644,764, 2-24-87, Cl. 66-140.00S.
Wilkhahn, Wilkening & Hahne GmbH & Co.: *See*—
Franck, Klaus; and Saaer, Werner, 4,662,679, Cl. 297-240.000.
Wilkie, Brian F.; Gallup, Michael; Suchyta, John; and Raghunathan, Kuppuswamy, to Motorola, Inc. Security for integrated circuit microcomputer with EEPROM. 4,698,750, 10-6-87, Cl. 364-200.000.
Wilkie, Bruce J., to International Business Machines Corporation. Call progress monitor for a computer telephone interface. 4,686,699, 8-11-87, Cl. 379-93.000.
Wilkins, Cletus W., Jr.: *See*—
Chandross, Edwin A.; Reichmanis, Elsa; and Wilkins, Cletus W., Jr., 4,666,820, Cl. 430-270.000.
Lyons, Alan M.; Mendenhall, Frederick T., Jr.; Robbins, Murray; Quick, Nathaniel R.; and Wilkins, Cletus W., Jr., 4,691,091, Cl. 219-121.0LM.
Wilkins, David R. G.; Brooker, Reginald D.; Walker, Roger; and Powell, Harry, to McCorquodale Machine Systems Limited. Printing wheel setting and aligning apparatus. 4,709,630, 12-1-87, Cl. 101-93.220.

Wilkins, Firle J., to Per-Lux Inc. Bumper guard for mounting headlamps. 4,667,995, 5-26-87, Cl. 293-117.000.

Wilkins, Howard: *See*—
Gannis, Peter M.; Wilkins, Howard, and Holloway, Oris E., Jr., 4,692,342, Cl. 426-293.000.

Wilkins, Jan: *See*—
Wilkins, Marcus J.; and Wilkins, Jan, 4,686,318, Cl. 800-1.000.

Wilkins, John J.: *See*—
Yu, Thomas C.; Vogt, Robert K.; and Wilkins, John J., 4,711,341, Cl. 198-372.000.

Wilkins, Judd. Golf club swing training aid. 4,637,612, 1-20-87, Cl. 273-183.00B.

Wilkins, Marcus J.; and Wilkins, Jan. Kiwifruit plant. 4,686,318, 8-11-87, Cl. 800-1.000.

Wilkins, Mark: *See*—
Teske, Duane R.; Senasack, Henry E., Jr.; and Wilkins, Mark, 4,637,272, Cl. 74-424.80R.

Wilkins, Robert B.: *See*—
Cook, Michael A.; Curzons, Alan D.; and Wilkins, Robert B., 4,647,659, Cl. 540-349.000.

Wilkins, Robert F., to MicroRain Corporation. Hard case floppy disk holder. 4,676,374, 6-30-87, Cl. 206-444.000.

Wilkins, Scott A.: *See*—
Killen, H. Ron; Wilkins, Scott A.; and Frantz, Douglas C., 4,637,361, Cl. 123-339.000.

Wilkins, Tracy D.; and Lyerly, David M., to Research Corporation. Vaccines based on insoluble supports. 4,713,240, 12-15-87, Cl. 424-92.000.

Wilkins, Vaughn D. Binocular eyeglasses for image magnification. 4,637,696, 1-20-87, Cl. 351-41.000.

Wilkins, William R., Jr. Flush finishing metal door frame. 4,698,944, 10-13-87, Cl. 52-211.000.

Wilkinson, Blair E., to Johnston, H. Fred; and Grosso, Carl. System for automatically inspecting a flat workpiece for holes. 4,711,579, 12-8-87, Cl. 356-375.000.

Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Noise isolator circuit for power supply fan. 4,644,252, 2-17-87, Cl. 323-273.000.

Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Synchronous converter circuit. 4,663,699, 5-5-87, Cl. 363-17.000.

Wilkinson, Bruce L.; and Mandelcorn, Josh, to Pioneer Research, Inc. Unity power factor power supply. 4,677,366, 6-30-87, Cl. 323-222.000.

Wilkinson, Don. Packing arrangement for articles of different size. 4,643,307, 2-17-87, Cl. 206-443.000.

Wilkinson, Don G. Building structure. 4,665,665, 5-19-87, Cl. 52-82.000.

Wilkinson, Donald R., to R. J. Reynolds Tobacco Company. Tax stamping machine. 4,664,740, 5-12-87, Cl. 156-540.000.

Wilkinson, Harlen E.: *See*—
Mietz, Raymond E.; and Wilkinson, Harlen E., 4,658,979, Cl. 220-209.000.

Wilkinson, Herbert C.; and Edsall, Jesse A. Lock tab wrench. 4,672,836, 6-16-87, Cl. 72-479.000.

Wilkinson, James H.; and Gillard, Clive H., to Sony Corporation. Digital video tape recorder apparatus. 4,638,380, 1-20-87, Cl. 360-22.000.

Wilkinson, James H.; Ive, John G. S.; and Boreland, Peter C., to Sony Corporation. Error concealment in digital television signals. 4,656,514, 4-7-87, Cl. 358-160.000.

Wilkinson, James H.; and Boreland, Peter C., to Sony Corporation. Recording and reproducing digital audio signals formed into groups of varying lengths. 4,660,103, 4-21-87, Cl. 360-18.000.

Wilkinson, James H.; and Boreland, Peter C., to Sony Corporation. Error concealment in digital television signals. 4,675,735, 6-23-87, Cl. 358-160.000.

Wilkinson, James H., to Sony Corporation. Decoding digital data. 4,680,766, 7-14-87, Cl. 371-47.000.

Wilkinson, James H., to Sony Corporation. Reproducing digital audio signals. 4,689,697, 8-25-87, Cl. 360-19.100.

Wilkinson, James P.; and Halverson, Thomas R., to Audio Science Investors Limited Partnership. Motorcycle sound simulator for non-motorized vehicle. 4,701,750, 10-20-87, Cl. 340-384.00E.

Wilkinson, John; and Holbrook, Nicholas, to Ashfield, Jacqueline M.; and Ashfield, Michele. Roof and a method of providing a building with a roof. 4,711,061, 12-8-87, Cl. 52-410.000.

Wilkinson, Kerry E. Golf swing training apparatus. 4,653,757, 3-31-87, Cl. 273-191.00R.

Wilkinson, Lawrence H., to Wilkinson, Lawrence H. Convenience bar assembly for hospital bed. 4,686,727, 8-18-87, Cl. 5-503.000.

Wilkinson, Michael A.: *See*—
Brooks, Kenneth J.; Wilkinson, Michael A.; Hannam, Peter H.; and Whiteside, Neil A., 4,702,252, Cl. 128-344.000.

Wilkinson, Noel R., to Robert Morton DG Limited. Brewing. 4,653,388, 3-31-87, Cl. 99-277.200.

Wilkinson, Paul: *See*—
Buckley, Keith; Prest, Colin T.; and Wilkinson, Paul, 4,707,375, Cl. 426-578.000.

Wilkinson, Philip M.: *See*—
Naylor, Geoffrey; and Wilkinson, Philip M., 4,704,858, Cl. 57-340.000.

Wilkinson, Raymond G.; and Lin, Yang-I, to American Cyanamid Company. Substituted acridine derivatives useful as modulators of the immune system. 4,666,917, 5-19-87, Cl. 514-297.000.

Wilkinson, Raymond G.: *See*—
Child, Ralph G.; Fields, Thomas L.; Wilkinson, Raymond G.; and Lin, Yang-I, 4,696,936, Cl. 514-297.000.

Wilkinson, Robert E.; and Epel, Joseph N., to Budd Company, The. Method and apparatus for impregnating fiber strands. 4,643,126, 2-17-87, Cl. 118-405.000.

Wilkinson, Ronald E., to Teledyne Industries, Inc. Exhaust manifold for opposed cylinder engines. 4,662,173, 5-5-87, Cl. 60-313.000.

Wilkinson, Stanley B.: *See*—
Alexander, George E.; and Wilkinson, Stanley B., 4,686,601, Cl. 361-80.000.

Wilkinson Sword Limited: *See*—
Duncan, David S., 4,690,018, Cl. 76-101.00R.
Gatley, Derrick R.; and Duncan, David S., 4,654,968, Cl. 30-138.000.
McGready, Angus J., 4,715,120, Cl. 30-57.000.
Williams, Anthony J., 4,658,505, Cl. 30-47.000.

Wilkinson Sword Limited of Sword House: *See*—
Harrison, Christopher R. B., 4,633,587, Cl. 30-261.000.

Wilkinson, Theodore C.: *See*—
Albright, James A.; and Wilkinson, Theodore C., 4,696,963, Cl. 524-144.000.

Wilkinson, Trevor A. Multidirectionally adjustable vibrato device. 4,681,010, 7-21-87, Cl. 84-298.000.

Wilkinson, Trevor A. Nut for stringed instruments. 4,709,612, 12-1-87, Cl. 84-314.00N.

Wilkinson, William F.; and Wilkinson, William T. Combination sports equipment storage rack and ball retriever. 4,643,317, 2-17-87, Cl. 211-14.000.

Wilkinson, William H.: *See*—
Ball, David A.; Hanna, William T.; and Wilkinson, William H., 4,667,485, Cl. 62-476.000.

Wilkinson, William K.: *See*—
Lynch, Charles E.; and Wilkinson, William K., 4,698,413, Cl. 525-328.500.

Wilkinson, William T. Device for simulation of climbing. 4,648,593, 3-10-87, Cl. 272-70.000.

Wilkinson, William T. Device for simulation of climbing. 4,659,075, 4-21-87, Cl. 272-70.000.

Wilkinson, William T. Utility bench. 4,715,296, 12-29-87, Cl. 108-116.000.

Wilkinson, William T.: *See*—
Wilkinson, William F.; and Wilkinson, William T., 4,643,317, Cl. 211-14.000.

Wilkman, Goran; Kottiatmen, Timo; Pulliainen, Juha; and Lindqvist, Gustav, to Oy Wartsila AB. Ship's hull. 4,715,305, 12-29-87, Cl. 114-40.000.

Wilks, Thomas M., to Laggan Marine Developments Limited. Marine survival system. 4,711,196, 12-8-87, Cl. 114-365.000.

Wilkus, Edward V.: *See*—
Wilczak, Boguslaw G.; Wilkus, Edward V.; and Wu, Alexander F., 4,647,602, Cl. 523-204.000.

Will, Alan L. Rear disk brake conversion kit. 4,673,064, 6-16-87, Cl. 188-18.00A.

Will, Fritz G.: *See*—
Niedrach, Leonard W.; and Will, Fritz G., 4,652,359, Cl. 204-415.000.
Niedrach, Leonard W.; and Will, Fritz G., 4,681,673, Cl. 204-415.000.

Will, Georg: *See*—
Chatzipetros, Johann; Dujka, Bernhard; Elf, Frank; and Will, Georg, 4,644,761, Cl. 62-514.00R.

Will, Karl-Heinz: *See*—
Ernst, Helmut; Breier, Alfred; Schwalbach, Manfred; Will, Karl-Heinz; Cameron, Alan B.; and Bates, Peter C., 4,680,009, Cl. 432-117.000.

Will, Malcolm. Joint prosthesis package. 4,697,703, 10-6-87, Cl. 206-438.000.

Will, Stephen A., to McDermott Incorporated. Composite leg platform. 4,705,430, 11-10-87, Cl. 405-227.000.

Will, Wolfgang: *See*—
Rentzea, Costin; Sauter, Hubert; Karbach, Stefan; Will, Wolfgang; Ammermann, Eberhard; and Pommer, Ernst-Heinrich, 4,678,798, Cl. 514-383.000.

Willach, Eberhard: *See*—
Icking, Friedrich; and Willach, Eberhard, 4,643,132, Cl. 119-14.410.

Willard, Alvin K.; Novello, Frederick C.; Hoffman, William F.; and Cragoe, Edward J., Jr., to Merck & Co., Inc. Substituted pyranone inhibitors of cholesterol synthesis. 4,710,513, 12-1-87, Cl. 514-460.000.

Willard, G. Fred; Wait, Michael R.; Hutchings, David A.; and Lauderback, Sanford K., to Owens-Corning Fiberglas Corporation. Process for the continuous production of pipe from particulate materials. 4,685,873, 8-11-87, Cl. 264-83.000.

Willard, G. Fred: *See*—
Boudreaux, Edwin, Jr.; Lee, David M.; Hutchings, David A.; Sieloff, Gloria M.; and Willard, G. Fred, 4,668,760, Cl. 528-193.000.
Lee, David M.; Hutchings, David A.; Sieloff, Gloria M.; and Willard, G. Fred, 4,661,645, Cl. 568-744.000.

Willard, Henry G., to General Electric Company. Combined accessory and trip actuator unit for electronic circuit breakers. 4,641,117, 2-3-87, Cl. 335-7.000.

Willard, Henry G.: *See*—
Howell, Edward K.; and Willard, Henry G., 4,658,227, Cl. 335-174.000.

Willard, Lars-Olof: *See*—
Hernestam, Sven E. H.; Nilsson, Nils A.; and Willard, Lars-Olof, 4,636,382, Cl. 424-54.000.

Willard, Miles J.; Dayley, Kyle E.; Hix, Veldon M.; and Holm, David A., to Willard, Miles J. Float-frying and dockering methods for controlling the shape and preventing distortion of single and multi-layer snack products. 4,650,687, 3-17-87, Cl. 426-438.000.
Willard, Miles J. Potato flavor enhancing composition and method of use. 4,698,230, 10-6-87, Cl. 426-533.000.
Willard, Reginald A.; and Percival, William S., to National Research Development Corporation. Nuclear magnetic resonance apparatus with switched attenuator. 4,701,711, 10-20-87, Cl. 324-322.000.
Willard, Reginald A.; and Percival, William S., to National Research Development Corporation. Waveform generator for nuclear magnetic resonance apparatus. 4,706,030, 11-10-87, Cl. 324-322.000.
Willard, Stephen J., to Installation Technology, Inc. Modular installation system for data cable interfacing. 4,678,251, 7-7-87, Cl. 439-61.000.
Willard, Sylvester L.: *See*—
Koper, Kenneth T.; Willard, Sylvester L.; and Abramowski, Larry A., 4,695,520, Cl. 429-116.000.
Willberg, Hans H.: *See*—
Ueberreiter, Ekkehard; and Willberg, Hans H., 4,703,858, Cl. 209-573.000.
Willburger, Ulrich. Cleaning cassette for high speed cassette recorders including manually operable drive means. 4,692,830, 9-8-87, Cl. 360-128.000.
Willcocks, Kenneth, to Beecham Group p.l.c. 4-(2-hydroxy-1-pyrrolidinyl and 1-piperidinyl)-2H-benzo[b]-pyran-3-ol derivatives. 4,640,928, 2-3-87, Cl. 514-422.000.
Willcocks, Kenneth: *See*—
Evans, John M.; Buckingham, Robin E.; and Willcocks, Kenneth, 4,644,070, Cl. 549-399.000.
Evans, John M.; Buckingham, Robin E.; and Willcocks, Kenneth, 4,647,670, Cl. 548-525.000.
Willcocks, Martin E. G.: *See*—
McNair, Rhett; and Willcocks, Martin E. G., 4,700,110, Cl. 315-87.000.
Willcott, M. Robert: *See*—
Mee, Gary L.; and Willcott, M. Robert, 4,710,715, Cl. 324-307.000.
Willcox, Charles L.: *See*—
Mills, Charles J.; Mott, Thomas W.; and Willcox, Charles L., 4,674,548, Cl. 144-134.00D.
Willcox, Dale: *See*—
Miller, Larry G.; Whiting, Harold E.; and Willcox, Dale, 4,709,126, Cl. 200-83.00P.
Wille, Herbert: *See*—
Kussmaul, Ulrich; Langer, Manfred; Reh, Kuno; Becherer, Johannes; Wille, Herbert; and Muller, Rolf, 4,677,209, Cl. 548-221.000.
Wille, Herbert S.; Przybylinski, Phillip G.; and Raidt, Joe B., to Pullman Standard Inc. Railway car body structural arrangement. 4,690,072, 9-1-87, Cl. 105-406.100.
Wille, Mark E. Downrigger fishing line release apparatus. 4,696,124, 9-29-87, Cl. 43-43.120.
Wille, Mark E. Boat gunwale attachment apparatus. 4,697,775, 10-6-87, Cl. 248-231.400.
Wille, Milton G.: *See*—
Mellander, Hugo; Nilsson, Stefan; Warner, Charles Y.; Wille, Milton G.; and Koch, Magnus, 4,691,556, Cl. 73-12.000.
Willems, David A., to ITT Aerospace Optical. Magnetostatic wave device unit. 4,714,904, 12-22-87, Cl. 333-148.000.
Willems, Johannes J. G. S. A.: *See*—
Heuts, Jacobus J. F. G.; and Willems, Johannes J. G. S. A., 4,699,856, Cl. 429-218.000.
Willems, Martin; Feilen, Albert; and Urban, Otfried, to BASF Aktiengesellschaft. Storage container for flat articles with undercut hinge portions. 4,676,375, 6-30-87, Cl. 206-444.000.
Willems, Michael H.: *See*—
Mutsers, Stanislaus M. P.; Willems, Michael H.; and Wolvers, Wilhelmus P., 4,675,440, Cl. 562-494.000.
Willemse, Kees: *See*—
Meek, Jan; and Willemse, Kees, 4,687,380, Cl. 405-204.000.
Willemsen, Herman W.: *See*—
Balston, Neil K.; Anderson, Keith D.; and Willemsen, Herman W., 4,672,600, Cl. 369-275.000.
Willemsen, Stephanus; Weening, Willem E.; and Steenbergen, Anne, to Akzo N.V. Adhesive-coated multifilament yarn of an aromatic polyamide. 4,652,488, 3-24-87, Cl. 428-224.000.
Willemsens, Albert L. A.: *See*—
Van der Veken, Guido J. L.; Guns, Eric J.; and Willemsens, Albert L. A., 4,672,126, Cl. 548-155.000.
Willen, Dennis E., to Exxon Production Research Co. Method for displaying acoustic well logging data by producing travel time stacks. 4,672,588, 6-9-87, Cl. 367-28.000.
Willenbacher, Erich, to Pfaff Industriemaschinen GmbH. Sewing machine and method for controlling the motion of a workholder. 4,681,048, 7-21-87, Cl. 112-262.300.
Willenbacher, Erich: *See*—
Diener, Horst; Albrecht, Ernst; and Willenbacher, Erich, 4,677,924, Cl. 112-258.000.
Dusch, Albert; and Willenbacher, Erich, 4,677,926, Cl. 112-274.000.
Jehle, Fritz; Willenbacher, Erich; Braun, Oskar; and Becker, Dietmar, 4,658,741, Cl. 112-262.100.
Kirch, Otto; and Willenbacher, Erich, 4,681,051, Cl. 112-306.000.
Willenberg, Bernd: *See*—
Brauer, Wolfgang; Willenberg, Bernd; Korte, Siegfried; and Suling, Carlhans, 4,643,946, Cl. 428-372.000.
Idel, Karsten; and Willenberg, Bernd, 4,645,825, Cl. 528-388.000.
Willenberg, Heinrich; Pohlmeyer, Wilhelm; and Rudolph, Werner, to Kali-Chemie Aktiengesellschaft. Process for producing 2,2,2-trifluoroethanol. 4,694,112, 9-15-87, Cl. 568-842.000.
Willency, Richard A.: *See*—
Keskey, William H.; and Willency, Richard A., 4,666,974, Cl. 524-547.000.
Willer, Paul H. F.: *See*—
Avison, Gerald; Teape, John W.; and Willer, Paul H. F., 4,640,320, Cl. 140-93.00A.
Willerding, J., to Stork Bepak B.V. Plunger-operated dispensing device. 4,708,269, 11-24-87, Cl. 222-377.000.
Willerding, Jozsef, to Stork Bepak B.V. Bottle feeding machinery. 4,660,708, 4-28-87, Cl. 198-341.000.
Willers, Hans-Gunther;: *See*—
Konig, Johannes; Kurfurst, Wilhelm; Willers, Hans-Gunther;; and Reuter, Martin, 4,688,937, Cl. 356-153.000.
Willert, Thomas E., to Puget Sound Power and Light Company. Power transformer inspection procedure. 4,715,236, 12-29-87, Cl. 73-863.860.
Willett International Limited: *See*—
Ball, Jeffrey M., 4,684,956, Cl. 346-1.100.
Willett, Ray W.: *See*—
Plapp, Nile E.; and Willett, Ray W., 4,634,000, Cl. 198-800.000.
Willett, Robert J.: *See*—
Baron, Donna M.; Espenlaub, David E.; Haines, Vicki A.; Inberg, Gerald A.; Shilling, Steve A.; Truesdale, James B.; and Willett, Robert J., 4,635,187, Cl. 364-200.000.
Willett, Robert L.; Cothren, Robert M., Jr.; Kittrell, Carter; and Feld, Michael S., to Massachusetts Institute of Technology. Mode mixer for a laser catheter. 4,669,467, 6-2-87, Cl. 128-303.100.
Willett, Ronald J.: *See*—
Muelling, Duane D.; Willett, Ronald J.; and Nimmo, Philip E., 4,645,320, Cl. 354-81.000.
Willetts, Elwood H. Suspension for axle control with empty car spring. 4,690,069, 9-1-87, Cl. 105-224.100.
Willey, Donald E., to Arnold, Rose L.; and Rafter, Ned M., part interest to each. Multi-position therapy cushions. 4,635,306, 1-13-87, Cl. 5-431.000.
Willey, Harley M.: *See*—
Barbare, Walter L.; Willey, Harley M.; and Higgins, Ronald D., 4,706,280, Cl. 379-284.000.
Willey, Robert E.: *See*—
Moeller, Alvin W.; Willey, Robert E.; and Sinsky, Allen I., 4,652,880, Cl. 342-373.000.
Willey, Robert P. Wheeled article carrier. 4,695,067, 9-22-87, Cl. 280-47.220.
Willgoose, Kenneth: *See*—
Kirkpatrick, Ralph A.; Willgoose, Kenneth; and Erdmann, Omer D., 4,688,992, Cl. 416-215.000.
Willi, Hensel, to Mauser-Waldeck AG. Pivotally and slidably connected cantilevered swivel seat. 4,653,806, 3-31-87, Cl. 297-300.000.
Willi, Jeschke, to Heidelberger Druckmaschinen AG. Method and device for aligning sheets. 4,696,465, 9-29-87, Cl. 271-237.000.
Willi Studer AG: *See*—
Doi, Toshitada; Brandes, Claudia; and Lagadec, Roger, 4,644,546, Cl. 371-49.000.
Lagadec, Roger; and Muller, Robert, 4,672,527, Cl. 363-89.000.
Lagadec, Roger, 4,709,278, Cl. 360-26.000.
Schmid, Johann J., 4,700,712, Cl. 128-699.000.
William A. Stegall: *See*—
Stegall, William A.; and Tittlebaum, Marty E., 4,664,795, Cl. 210-202.000.
William Bayley Company, The: *See*—
Maggs, Lou M.; and Bauer, Walter B., 4,669,239, Cl. 52-106.000.
William Beaumont Hospital: *See*—
Crissman, John S., III; Windingland, Lyle N.; and Kribs, Natalie A., 4,706,368, Cl. 29-526.00R.
Wm. C. Staley Machinery Corporation: *See*—
Sardella, Louis M., 4,681,311, Cl. 271-11.000.
William F. Cosulich Associates, P.C.: *See*—
Dvirka, Miro; Psihos, George J.; and Cosulich, Joseph J., 4,681,045, Cl. 110-345.000.
William H. Rorer, Inc.: *See*—
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Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,638,001, Cl. 514-212.000.
Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,639,442, Cl. 514-212.000.
Kuhla, Donald E.; Campbell, Henry F.; and Studt, William L., 4,647,559, Cl. 514-212.000.
Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; Molino, Bruce F.; Tucker, Thomas J.; and Banti, Ferdinand, Jr., 4,666,913, Cl. 514-259.000.
Kuhla, Donald E.; Campbell, Henry F.; Studt, William L.; and Neuenschwander, Kent W., 4,668,673, Cl. 514-212.000.
Kuhla, Donald E.; Studt, William L.; Campbell, Henry F.; and Yelnosky, John, 4,689,335, Cl. 514-361.000.
Wachinski, Clarence A.; and Bigger, Thomas J., 4,637,528, Cl. 222-182.000.
William P. Young Co.: *See*—
Young, William P., 4,696,143, Cl. 53-289.000.
William, Peze . Appliance for correcting rachidial deformities. 4,697,582, 10-6-87, Cl. 128-69.000.
William Prym-Werke GmbH & Co. KG: *See*—
Altwicker, Gerhard H. J., 4,694,984, Cl. 227-18.000.
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Herten, Ernst, 4,703,882, Cl. 227-8.000.

Wm. R. Stewart & Sons (Hacklemakers) Limited: *See*—
Stewart, William R., 4,679,390, Cl. 57-408.000.
Wm. T. Burnett & Co., Inc.: *See*—
Davis, Gregory B.; and Buchanan, Michael S., 4,683,246, Cl. 521-54.000.
Wm. Wrigley Jr. Company: *See*—
Patel, Mansukh M.; Reed, Michael A.; Wokas, William J.; and Kures, Vasek J., 4,671,961, Cl. 426-3.000.
Patel, Mansukh M.; Reed, Michael A.; Wokas, William J.; and Kures, Vasek J., 4,671,967, Cl. 426-658.000.
Patel, Mansukh M., 4,673,577, Cl. 426-5.000.
Reed, Michael A.; and McGrew, Gordon N., 4,642,235, Cl. 426-5.000.
Williamitis, Victor A.; and McGary, Charles W., to Becton, Dickinson and Company. Lubricant for catheter assemblies employing thermoplastic catheters. 4,664,657, 5-12-87, Cl. 604-265.000.
Williams, A. Graves, III; and Thackston, Ronald L., to Irwin Company, The. Spade bit with fluted shoulders. 4,682,917, 7-28-87, Cl. 408-212.000.
Williams, Alan J.: *See*—
Dianis, William P.; and Williams, Alan J., 4,665,256, Cl. 585-467.000.
Williams, Amy E.; and Williams, Cole. Transport container assembly. 4,646,927, 3-3-87, Cl. 217-12.00R.
Williams, Ann S.; and Letize, Raymond A., to MacDermid, Incorporated. Process for stripping tin or tin-lead alloy from copper. 4,687,545, 8-18-87, Cl. 156-651.000.
Williams, Anne L., executrix: *See*—
Van Ruyven, Lodewijk J.; and Williams, Ferd E., deceased, 4,644,553, Cl. 372-45.000.
Williams, Anthony J., to Wilkinson Sword Limited. Razor handle for supporting a detachable shaving unit. 4,658,505, 4-21-87, Cl. 30-47.000.
Williams, Anthony M., to EMI Limited. Gripper for a programmable manipulator. 4,645,407, 2-24-87, Cl. 414-730.000.
Williams, Anthony M.: *See*—
Hounsfield, Godfrey N.; and Williams, Anthony M., 4,702,667, Cl. 414-735.000.
Williams, Arthur, to Commercial Shearing, Inc. Fluid valve structures. 4,709,724, 12-1-87, Cl. 137-596.000.
Williams, Barry C., to Polydrain, Inc. Sidewall extension for drain channel system and method for extending the continuous slope of a drainage channel system. 4,640,643, 2-3-87, Cl. 404-4.000.
Williams, Barry W. Induction motor drive circuits. 4,672,286, 6-9-87, Cl. 318-798.000.
Williams, Bertrand J.; and Wilson, Stanley, to Advanced Micro Devices, Inc. Power-down arrangement for an ECL circuit. 4,639,661, 1-27-87, Cl. 323-317.000.
Williams, Bertrand J., to Advanced Micro Devices, Inc. Circuit for improving performance of an ECL-to-TTL translator. 4,678,944, 7-7-87, Cl. 307-475.000.
Williams, Brady G., to Zilog, Inc. Programmed disk controller capable of operating with a variety of data encoding techniques. 4,651,237, 3-17-87, Cl. 360-48.000.
Williams, Charles E., to Hough Manufacturing Corporation. Acoustic type folding door with separate cover sections. 4,658,878, 4-21-87, Cl. 160-84.00V.
Williams, Charles F.; and Sahni, Atam P., to Ferro Corporation. Electrostatically conductive premold coating. 4,680,139, 7-14-87, Cl. 252-511.000.
Williams, Charles R. Fishing rod handle. 4,651,461, 3-24-87, Cl. 43-23.000.
Williams, Clarence. Milling machine apparatus. 4,677,726, 7-7-87, Cl. 29-401.100.
Williams, Clarence O. Insect trap. 4,686,789, 8-18-87, Cl. 43-113.000.
Williams, Clarence O., to Happy Jack, Inc. Flea trap. 4,700,506, 10-20-87, Cl. 43-113.000.
Williams, Clarence O.; and Lanier, David C., to Lanier, David C. Water-powered back scrubber. 4,704,756, 11-10-87, Cl. 15-21.00R.
Williams, Clark R., to Dallas Semiconductor Corporation. Input-voltage detector circuit for CMOS integrated circuit. 4,709,172, 11-24-87, Cl. 307-585.000.
Williams, Clayton C., to Stanford University. Method and apparatus for non-destructive testing using acoustic-optic laser probe. 4,666,308, 5-19-87, Cl. 356-432.000.
Williams, Clyde C.: *See*—
Goldberg, Harris A.; Kalnin, Ilmar L.; Williams, Clyde C.; and Spain, Ian L., 4,642,664, Cl. 357-2.000.
Williams, Cole: *See*—
Williams, Amy E.; and Williams, Cole, 4,646,927, Cl. 217-12.00R.
Williams, Colin W. F., to Systems Efficiency Limited. Machine tool shaft drive system. 4,702,728, 10-27-87, Cl. 474-148.000.
Williams, Daniel E. Spectator seat and carrying case. 4,674,631, 6-23-87, Cl. 206-216.000.
Williams, Daniel L.: *See*—
Heller, James W.; Kugler, Andrew J.; Longacre, Andrew, Jr.; and Williams, Daniel L., 4,688,582, Cl. 128-746.000.
Williams, Danny R.: *See*—
Finke, Ronald J.; Mullen, Victor J.; Williams, Danny R.; Morris, Robert J.; and Tucker, Charles E., 4,661,662, Cl. 200-48.00R.
Williams, David A.; and Wright, Peter G., to Group Lotus Cap Companies PLC. Vehicle suspension arrangements. 4,639,013, 1-27-87, Cl. 280-707.000.
Williams, David A.: *See*—
Evans, Thomas L.; and Williams, David A., 4,650,852, Cl. 528-371.000.
Evans, Thomas L.; and Williams, David A., 4,675,304, Cl. 502-153.000.
Williams, David F.; and Hoyt, Edwin D., to Amark Industries, Inc. Flexible blanket heater. 4,695,703, 9-22-87, Cl. 219-212.000.
Williams, David G., to Harris Corporation. Programmable chip select decoder. 4,670,748, 6-2-87, Cl. 340-825.840.
Williams, David G.: *See*—
Harvey, Ian E.; Williams, David G.; Fisher, Barbara J.; and Johnson, Timothy J., 4,686,384, Cl. 307-202.100.
Williams, David L.: *See*—
Houminer, Yoram; Southwick, Everett W.; and Williams, David L., 4,635,652, Cl. 131-278.000.
Williams, David R. Bathtub abrading system. 4,671,022, 6-9-87, Cl. 51-410.000.
Williams, David T.: *See*—
Lord, Leslie W.; Kendall, Kevin; Williams, David T.; and Bateson, John H., 4,707,351, Cl. 423-648.00R.
Williams, Dean L., to M.G.S. Manufacturing, Inc. Flexible coupling for a wire stranding machine. 4,704,854, 11-10-87, Cl. 57-58.340.
Williams, Dennis: *See*—
Feldberg, Leonard; and Williams, Dennis, 4,676,576, Cl. 439-404.000.
Williams, Derrick G.; and Bushnell, John J., to Oleo International Holding Limited. Energy absorbers. 4,660,687, 4-28-87, Cl. 188-287.000.
Williams, Donald E. Remotely controlled inflation/deflation valve system for a vehicle tire. 4,685,501, 8-11-87, Cl. 152-417.000.
Williams, Donald E., to United States of America, Air Force. Remotely controlled aircraft tire inflation/deflation valve. 4,700,763, 10-20-87, Cl. 152-417.000.
Williams, Donald J.; and Kammin, Marvin R., to Minnesota Mining and Manufacturing Company. Receptor sheet for thermal mass transfer printing. 4,686,549, 8-11-87, Cl. 503-227.000.
Williams, Donald J., to Minnesota Mining and Manufacturing Company. Receptor sheet for impact printers. 4,713,280, 12-15-87, Cl. 428-149.000.
Williams, Donald M.: *See*—
Lyle, W. D., Jr.; and Williams, Donald M., 4,677,596, Cl. 367-46.000.
Williams, Donald W., to International Business Machines Corporation. Raster scan digital display system. 4,672,368, 6-9-87, Cl. 340-703.000.
Williams, Edgar L. Ammunition storage compartment. 4,697,369, 10-6-87, Cl. 42-71.020.
Williams, Edward D.: *See*—
Newman, Goeffrey R.; Jasani, Bharat; and Williams, Edward D., 4,687,736, Cl. 435-7.000.
Williams, Edward L., to Becton, Dickinson and Company. Moisture-controlled glass microscope slide package. 4,681,218, 7-21-87, Cl. 206-204.000.
Williams Electronics, Inc.: *See*—
Demar, Lawrence E.; and Ritchie, Steven S., 4,685,677, Cl. 273-121.00A.
Williams, Ferd E., to U.S. Philips Corporation. Semiconductor device for generating electromagnetic radiation. 4,644,378, 2-17-87, Cl. 357-17.000.
Williams, Ferd E., deceased: *See*—
Van Ruyven, Lodewijk J.; and Williams, Ferd E., deceased, 4,644,553, Cl. 372-45.000.
Williams, Floyd B.: *See*—
Baxley, William H.; Weatherford, Marion H.; Wilfong, Harry B., Jr.; and Williams, Floyd B., 4,676,378, Cl. 206-554.000.
Williams, Frank A., Jr.: *See*—
Logsdon, Gary L.; Scheevel, Mark R.; and Williams, Frank A., Jr., 4,644,464, Cl. 364-200.000.
Williams, Frank C., to Johnson & Johnson. Shaped disposal diaper. 4,662,877, 5-5-87, Cl. 604-385.00A.
Williams, Frank C., Jr.: *See*—
Dowbenko, Rostyslaw; Singer, Debra L.; Blackburn, William P.; and Williams, Frank C., Jr., 4,652,610, Cl. 525-100.000.
Williams, Frank M. Spray flushing attachment for vehicle holding tanks and the combination thereof. 4,667,351, 5-26-87, Cl. 4-323.000.
Williams, Fred G.: *See*—
Blakemore, Judith L.; Hanamoto, Mark S.; and Williams, Fred G., 4,648,529, Cl. 221-1.000.
Williams, George A. Combination, a model vehicle engine and a direct-current generator. 4,638,172, 1-20-87, Cl. 290-1.00R.
Williams, George J. Stake for a tube bundle. 4,648,442, 3-10-87, Cl. 165-162.000.
Williams, Gerald J.: *See*—
Niskin, Shale J.; and Williams, Gerald J., 4,690,380, Cl. 254-394.000.
Williams, Glen P.: *See*—
Ohayon, Jacques J.; and Williams, Glen P., 4,712,562, Cl. 128-672.000.
Williams, Glenn A., Jr. Patient-activated body immobilizer and method of use. 4,641,642, 2-10-87, Cl. 128-134.000.
Williams, Glenn T.; and Thomas, Michael D., to Intergraph Corporation. Height adjust mechanism. 4,693,444, 9-15-87, Cl. 248-653.000.
Williams, Gregg R.: *See*—
Frunzi, Archie M.; and Williams, Gregg R., 4,659,024, Cl. 241-99.000.
Williams, Gregory. Ski binding. 4,678,201, 7-7-87, Cl. 280-620.000.
Williams, Harold L. Mirror wiper assembly with manually operated remote control. 4,672,708, 6-16-87, Cl. 15-250.00B.
Williams, Howard M., Jr., to Hubbell-Bell Inc. Lampholder gasket. 4,660,916, 4-28-87, Cl. 339-94.00L.

Williams, Howard M., Jr., to Hubbell Incorporated. Electrical box with laterally open polygonal bore. 4,706,831, 11-17-87, Cl. 220-3.200.

Williams, Hywel: *See*—
Brown, Michael; Martin, Sharon P.; Seaton, Andrew; Snowsill, Phillip J.; Thomas, Mark S.; and Williams, Hywel. 4,657,479, Cl. 415-138.000.

Williams, Ian G., to Imperial Chemical Industries PLC. Flame retardant, impact resistant polyamide compositions. 4,696,966, 9-29-87, Cl. 524-412.000.

Williams, Jack B.: *See*—
Fitelson, Michael M.; Wanuga, Stephen; and Williams, Jack B., 4,703,471, Cl. 370-1.000.

Williams, Jack M.; Wang, Hsien-Hau; and Beno, Mark A., to United States of America, Energy. Ambient-temperature superconductor symetrical metal-dihalide bis-(ethylenedithio)-tetrathiafulvalene compounds. 4,675,415, 6-23-87, Cl. 549-3.000.

Williams, Jackie L.: *See*—
Dame, John B.; Williams, Jackie L.; McCutchan, Thomas F.; and Schneider, Imogene. 4,707,357, Cl. 424-88.000.

Williams, James A. Spill proof container. 4,714,174, 12-22-87, Cl. 220-90.400.

Williams, James C., Jr.: *See*—
Burow, Kenneth W., Jr.; and Williams, James C., Jr., 4,643,758, Cl. 71-90.000.

Williams, James E., to Cuisinarts, Inc. Method and apparatus for grinding kernels of grain, coffee beans, and the like in a food processor. 4,634,061, 1-6-87, Cl. 241-101.00R.

Williams, James E., to Cuisinarts, Inc. Switch for automatically providing a safety function when its contacts are fused together in the "ON" position. 4,645,886, 2-24-87, Cl. 200-1.00R.

Williams, James E., to Cuisinarts, Inc. Adapter support, pureer/strainer and juicer attachments for use on food processor bowls. 4,688,478, 8-25-87, Cl. 99-503.000.

Williams, James E., to Cuisinarts, Inc. Apparatus for adapting revolving beater/whipper unit to food processor working bowls of various diameters. 4,688,728, 8-25-87, Cl. 241-101.100.

Williams, James E., to Cuisinarts Research & Development, Inc. Chute operated control for a food processor. 4,714,203, 12-22-87, Cl. 241-36.000.

Williams, James E.: *See*—
Sontheimer, Carl G.; and Williams, James E., 4,702,162, Cl. 99-495.000.

Williams, James T. Steamer cooking device. 4,650,968, 3-17-87, Cl. 219-401.000.

Williams, James W., to General Electric Company. Battery charger with three different charging rates. 4,670,703, 6-2-87, Cl. 320-22.000.

Williams, Janet C., to Dow Chemical Company, The. Branched polycarbonate composition from tris(hydroxyaryl)phosphorus compound. 4,680,370, 7-14-87, Cl. 528-167.000.

Williams, Jeffrey A.: *See*—
Dicke, Grant D.; and Williams, Jeffrey A., 4,694,601, Cl. 40-610.000.

Williams, Jeffrey L.: *See*—
Wiedenman, Gregory B.; Morley, Kenneth S.; Frederickson, Gary H.; and Williams, Jeffrey L., 4,646,076, Cl. 340-747.000.

Williams, Jeffrey S. Cleaner tool for cleated shoes. 4,670,932, 6-9-87, Cl. 15-237.000.

Williams, Jerry R., to Phillip, Harald. Athletic evaluation and training apparatus. 4,645,458, 2-24-87, Cl. 434-251.000.

Williams, Joel: *See*—
Schwartz, Abraham; Williams, Joel; and Stevens, Robert D., 4,698,262, Cl. 428-402.000.
Schwartz, Abraham; Williams, Joel; and Stevens, Robert D., 4,699,826, Cl. 428-402.000.
Schwartz, Abraham; Williams, Joel; and Stevens, Robert D., 4,699,828, Cl. 428-402.000.

Williams, John, to Interox Chemicals Limited. Process and apparatus for analysis. 4,680,271, 7-14-87, Cl. 436-55.000.

Williams, John, and Robson, Michael J., to Imperial Chemical Industries PLC. Process for the preparation of an enantiomeric pair of isomers of cyfluthrin. 4,681,969, 7-21-87, Cl. 558-407.000.

Williams, John A.: *See*—
Cooper, Graham H. B.; and Williams, John A., 4,682,627, Cl. 137-572.000.

Williams, John B., Jr., to Joy Manufacturing Company. Valve with protected seats. 4,643,395, 2-17-87, Cl. 25 -172.000.

Williams, John C., to RCA Corporation. Subsurface antenna system. 4,687,445, 8-18-87, Cl. 343-719.000.

Williams, John C.: *See*—
Robbins, Kenneth E.; Ruggles, Stephen G.; Duncan, Dan; Williams, John C.; Tung, Stephen K.; Sumner, William J.; and Dinh, Cuong V., 4,643,645, Cl. 416-190.000.

Williams, John E.: *See*—
Sofianek, Jay K.; Nally, John F.; Rush, James H.; Fuss, Robert L.; Williams, John E.; and Ruckey, Allan M., 4,646,974, Cl. 239-585.000.

Williams, John E. F.; and Lang, Jack, to Rolls-Royce plc. Low drag surface construction. 4,693,201, 9-15-87, Cl. 114-67.00R.

Williams, John F.; and Wagner, Emery L., to Du Pont de Nemours, E. I., and Company. Refrigerated centrifuge having a removable bowl. 4,690,669, 9-1-87, Cl. 494-14.000.

Williams, John L.: *See*—
Waite, Michael S.; Williams, John L.; and Siddle, John R., 4,652,794, Cl. 313-509.000.

Williams, John P., Jr.: *See*—
Hutton, Roger L.; and Williams, John P., Jr., 4,650,947, Cl. 219-10.410.
Hutton, Roger L.; and Williams, John P., Jr., 4,654,495, Cl. 219-10.410.

Williams, John R.: *See*—
Piereth, Richard J.; Potter, Robert L.; and Williams, John R., 4,677,609, Cl. 370-60.000.

Williams, John T.: *See*—
August, Melvin C.; Bowen, Stephen A.; and Williams, John T., 4,700,996, Cl. 439-268.000.

Williams, John W.: *See*—
Joner, Bruno A.; and Williams, John W., 4,633,778, Cl. 102-411.000.

Williams, Joseph R.: *See*—
Shave, William H.; and Williams, Joseph R., 4,704,106, Cl. 604-319.000.

Williams, Joseph R., II. Releasable snap connector. 4,709,975, 12-1-87, Cl. 439-350.000.

Williams, Keith M.: *See*—
Groner, Gabriel F.; Dorsey, Eric A.; Williams, Keith M.; and Vyas, Harihar J., 4,659,877, Cl. 379-88.000.
Groner, Gabriel F.; Dorsey, Eric A.; Williams, Keith M.; and Vyas, Harihar J., 4,716,583, Cl. 379-88.000.

Williams, Keith R., to Sundstrand Corporation. Multi-function valve. 4,696,162, 9-29-87, Cl. 60-433.000.

Williams, Kenneth A. Device for cleaning the human body. 4,712,265, 12-15-87, Cl. 15-97.00R.

Williams, Kenneth E.; Frutiger, William A.; and Hall, Kenneth E., to Sony Corporation. Thermionic cathode heater. 4,634,921, 1-6-87, Cl. 313-342.000.

Williams, Kenneth L. Concentricity gauge. 4,679,330, 7-14-87, Cl. 33-550.000.

Williams, Kenneth P. J.: *See*—
Gerrard, Donald L.; Preedy, John E.; and Williams, Kenneth P. J., 4,693,377, Cl. 209-579.000.

Williams, Kenneth R., to Johnston Pump/General Valve, Inc. Tight shut-off valve with flow control element. 4,662,394, 5-5-87, Cl. 137-614.110.

Williams, Kevin G.: *See*—
Passaro, Robert E.; Williams, Kevin G.; Parnoff, George K.; and Rogers, Raymond E., 4,692,621, Cl. 250-343.000.

Williams & Lane Energy Systems Corporation: *See*—
Griesinger, Robert E., 4,648,242, Cl. 60-39.030.

Williams, Larry: *See*—
Paranto, Joseph N.; Wang, John H. S.; and Williams, Larry, 4,686,681, Cl. 372-82.000.

Williams, Larry B.; and Spector, George. Rifle and bow hunters buckle. 4,688,303, 8-25-87, Cl. 24-163.00K.

Williams, Leonard E., Jr.: *See*—
Schnitzer, Emanuel; and Williams, Leonard E., Jr., 4,682,559, Cl. 114-295.000.

Williams, Leslie J.: *See*—
Mattson, Rodney A.; and Williams, Leslie J., 4,663,772, Cl. 378-18.000.

Williams, Leslie P., to Cause Consequence Analysis, Inc. Foam-applying nozzle. 4,640,461, 2-3-87, Cl. 239-317.000.

Williams, Leslie P., to CCA, Inc. Mixing apparatus. 4,705,405, 11-10-87, Cl. 366-160.000.

Williams, Luther, to Kern's Bakeries, Inc. Apparatus for dividing, rounding, and panning of doughballs. 4,668,174, 5-26-87, Cl. 425-145.000.

Williams, Mack H. Butterfly valve. 4,660,592, 4-28-87, Cl. 137-330.000.

Williams, Mark A.: *See*—
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Vavadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,642,968, Cl. 53-425.000.
McHenry, Robert J.; Brito, Joseph B.; Piatt, Wilson T., Jr.; Reed, Robert J.; Varadarajan, Krishnaraju; Spencer, Kenneth B.; Tsai, Boh C.; Williams, Mark A.; Vosti, Donald C.; and Wachtel, James A., 4,667,454, Cl. 53-425.000.

Williams, Mark T.: *See*—
Winchester, Clinton S.; and Williams, Mark T., 4,675,256, Cl. 429-112.000.

Williams, Marshall; and Rodal, David R., to Ampex Corporation. Video tape transport servo for variable tape speed control. 4,679,098, 7-7-87, Cl. 360-10.100.

Williams, Martin D. Detection of pulmonary inflammation using breath luminescence. 4,646,750, 3-3-87, Cl. 128-716.000.

Williams, Martin M.; Phelps, Martha A.; and Zody, George M., to Hi-Tek Polymers, Inc. Reduction of viscosity of aqueous fluids. 4,647,385, 3-3-87, Cl. 252-8.551.

Williams, Mary. Hair cutting cape with catch for hair chippings. 4,689,830, 9-1-87, Cl. 2-50.000.

Williams, Meurig W.: *See*—
Laing, John R.; Zimmer, C. D.; Maniar, Deepak R.; and Williams, Meurig W., 4,678,734, Cl. 430-137.000.

Williams, Michael O. Appliance for fixing fractures of the femur. 4,697,585, 10-6-87, Cl. 128-92.0YZ.

Williams, Michael R., to Hydrovane Compressor Company Limited, The. Rotary air compressor with thermally responsive oil injection. 4,648,815, 3-10-87, Cl. 418-84.000.

Williams, Michael R.: *See*—
Roberts, David; and Williams, Michael R., 4,640,614, Cl. 356-36.000.

Williams, Mitchel E., to Conoco Inc. Downhole corrosion coupon holder. 4,688,638, 8-25-87, Cl. 166-250.000.

Williams, Neil R.: *See*—
Yasui, Ken K.; Williams, Neil R.; Ecklund, Richard C.; Hayase, Masashi; and Walkington, Robert J., 4,708,008, Cl. 72-60.000.

Williams, Norman E., to Dresser Industries, Inc. Blade support for bulldozers and the like. 4,664,203, 5-12-87, Cl. 172-826.000.

Williams, Pamela J.; and Howes, John G. B., to Smith & Nephew Associated Companies Limited. Hygienic absorbent pads. 4,666,439, 5-19-87, Cl. 604-368.000.

Williams Patent Crusher and Pulverizer Company: *See*—
Williams, Robert M.; and Williams, Robert M., Jr., 4,638,952, Cl. 241-3.000.
Williams, Robert M., 4,640,204, Cl. 110-347.000.
Williams, Robert M., 4,641,788, Cl. 241-14.000.
Williams, Robert M., 4,658,964, Cl. 209-552.000.

Williams, Patrick Y. Buoyant valve member closing device for doors. 4,665,584, 5-19-87, Cl. 16-81.000.

Williams, Paul B.: *See*—
Chamran, Morteza M.; Scott, Larkin B.; and Williams, Paul B., 4,644,323, Cl. 340-347.0NT.

Williams, Paul J. Separator for particulates. 4,699,710, 10-13-87, Cl. 209-24.000.

Williams, Paul M.: *See*—
Nelson, Robert D.; Nelson, Thomas E.; and Williams, Paul M., 4,651,457, Cl. 43-3.000.

Williams, Peter C.; Koch, Ulrich H.; and Francis, Timothy J., to Whitey Co. Fire-safe ball valve. 4,671,498, 6-9-87, Cl. 137-72.000.

Williams, Peter C.: *See*—
Brown, Cal R.; Gallagher, Michael T.; Wozniak, Richard F.; and Williams, Peter C., 4,660,591, Cl. 137-312.000.
Brown, Cal R.; Gallagher, Michael T.; and Williams, Peter C., 4,714,235, Cl. 251-288.000.
Corbin, Susan E.; Brown, Cal R.; Crozier, David W.; and Williams, Peter C., 4,685,488, Cl. 137-328.000.
Linderman, Ray D.; and Williams, Peter C., 4,635,677, Cl. 137-356.000.
Linderman, Ray D.; and Williams, Peter C., 4,714,237, Cl. 251-330.000.

Williams, Philip L., to Hydro Optics, Inc. Polymer compositions containing entrapped volatile ingredients. 4,664,847, 5-12-87, Cl. 252-522.00A.

Williams, R. Bruce. Device for continuous in vivo measurement of blood glucose concentrations. 4,685,463, 8-11-87, Cl. 128-632.000.

Williams, R. Tudor. Dual function connector for use with endotracheal apparatus. 4,683,879, 8-4-87, Cl. 128-200.260.

Williams, R. Tudor. Carbon dioxide detector. 4,691,701, 9-8-87, Cl. 128-207.140.

Williams, Ralph O.: *See*—
Steinmayer, Alwin G., Jr.; and Williams, Ralph O., 4,651,114, Cl. 332-9.00R.

Williams, Randal R., to International Business Machines Corporation. Universal calibration standard for surface inspection systems. 4,636,073, 1-13-87, Cl. 356-243.000.

Williams, Randolph C.: *See*—
Eastman, Richard E.; and Williams, Randolph C., 4,677,873, Cl. 74-665.0GE.

Williams, Ray E., to United States of America, Energy. Orienting members in a preselected rotary alignment. 4,674,774, 6-23-87, Cl. 285-184.000.

Williams, Raymond F., to Inventive Machine Corporation. Pressurized abrasive cleaning device for use with plastic abrasive particles. 4,646,480, 3-3-87, Cl. 51-424.000.

Williams, Reade; and Westlund, Kenneth P., to Emhart Industries, Inc. Glassware inspection using optical streak detection. 4,679,075, 7-7-87, Cl. 358-106.000.

Williams, Reade; and Scott, Paul F., to Emhart Industries, Inc. Molded code mark reader with elongated read beam. 4,713,536, 12-15-87, Cl. 250-223.00B.

Williams, Richard A.: *See*—
Jolitz, William L.; and Williams, Richard A., 4,639,385, Cl. 427-386.000.

Williams, Richard D. Construction material. 4,680,907, 7-21-87, Cl. 52-309.170.

Williams, Richard S.: *See*—
Ringermacher, Harry I., and Williams, Richard S., 4,701,658, Cl. 310-334.000.

Williams, Robert. Fishing lure. 4,674,224, 6-23-87, Cl. 43-42.480.

Williams, Robert A.: *See*—
Cellier, Francis; Grauity, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 4,687,605, Cl. 264-0.500.

Williams, Robert D.; and Struble, Bud G., to Formica Corporation. Thermosetting resin casting process, product and device. 4,652,596, 3-24-87, Cl. 523-348.000.

Williams, Robert D.; Bright, David R.; Young, Vernon V.; and Martin, Jerome L., to International Minerals & Chemical Corp. Manganese-containing antibiotic agents. 4,654,334, 3-31-87, Cl. 514-184.000.

Williams, Robert E.: *See*—
Bolt, Reginald C.; Dyett, Derek H.; and Williams, Robert E., 4,635,653, Cl. 131-281.000.

Williams, Robert J.: *See*—
Armstrong, Max D., 4,691,904, Cl. 269-17.000.

Williams, Robert M.; and Williams, Robert M., Jr., to Williams Patent Crusher and Pulverizer Company. Method of fluid coke reduction. 4,638,952, 1-27-87, Cl. 241-3.000.

Williams, Robert M., to Williams Patent Crusher and Pulverizer Company. Fluidized bed combustion apparatus and method of operating same. 4,640,204, 2-3-87, Cl. 110-347.000.

Williams, Robert M.; and Beckwith, Elaine C., to Ford Motor Company. Method of making yttrium silicon oxy compound. 4,640,826, 2-3-87, Cl. 423-263.000.

Williams, Robert M., to Williams Patent Crusher and Pulverizer Company. Method of simultaneously grinding coal and dolomite. 4,641,788, 2-10-87, Cl. 241-14.000.

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Heikkila, Kurt E.; Williams, Rodney K.; Bohnen, Bruce A.; and Pylkki, Russell J., 4,667,049, Cl. 558-236.000.
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Williams, Ronald D., to BICC Public Limited Company. Electric cable joints. 4,714,438, 12-22-87, Cl. 439-610.000.

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Struss, Arthur W.; Williams, Terrance L.; and Eby, Lawrence T., 4,686,253, Cl. 524-44.000.

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Williams, Theodore G.: *See*—
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Hatton, Gregory J.; Helms, David A.; and Williams, Thomas M., 4,660,414, Cl. 73-61.10R.

Williams, Thomas W. Method and apparatus for recovering and reusing energy from a melting furnace. 4,655,436, 4-7-87, Cl. 266-44.000.

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Williams, Timothy: *See*—
Lawrence, Anthony W.; Haavisto, John R.; and Williams, Timothy, 4,674,881, Cl. 356-350.000.

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Williams, Walter L., to Otis Elevator Company. Elevator inner and outer door zone sensor arrangement. 4,674,604, 6-23-87, Cl. 187-113.000.

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Winnik, Mitchell A.; and Williamson, Brett, 4,644,041, Cl. 526-201.000.

Williamson, Calvin C., to Kaiser Steel Corporation. Method of roll forming cylindrical pipe. 4,706,488, 11-17-87, Cl. 72-370.000.

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Phillipps, Gordon H.; and Williamson, Christopher, 4,636,509, Cl. 514-274.000.
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Williamson, Floyd L., to Intecolor Corporation. Power supply operable on varying inputs. 4,686,616, 8-11-87, Cl. 363-21.000.

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Williamson, Gerald E.; and Noland, Carroll D., to Yetter Manufacturing Company. Liquid fertilizer applicator. 4,656,957, 4-14-87, Cl. 111-7.000.

Williamson, James W. Boat lift. 4,678,366, 7-7-87, Cl. 405-3.000.

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Williamson, John D., to Omnitronics Research Corporation. Intrusion alarm system for vehicles. 4,658,237, 4-14-87, Cl. 340-63.000.

Williamson, Kenneth M.: *See*—
Miller, John D.; Koslow, Evan E.; and Williamson, Kenneth M., 4,676,807, Cl. 55-97.000.

Williamson, Reno S. Fastener driving tool. 4,714,186, 12-22-87, Cl. 227-146.000.

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Williamson, Warren P., IV: *See*—
Schoendorfer, Donald W.; and Williamson, Warren P., IV, 4,675,106, Cl. 210-232.000.

Williamson, Wilfred G., to Airmaster Sales Ltd. Reciprocating harrow with parker. 4,685,524, 8-11-87, Cl. 172-54.500.

Williamson, William A., to Clark Equipment Company. Composite hydraulic system. 4,649,705, 3-17-87, Cl. 60-420.000.

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Hilterhaus, Karl-Heinz; and Norkus, Hans, 4,669,919, Cl. 405-264.000.

Williford, Hugh S.: *See*—
Morgan, Annis R., Jr.; Mehlan, Bernd; Gress, Josef; Williford, Hugh S.; and Baumgartner, Gunter, 4,676,074, Cl. 62-277.000.

Williford, Kenneth A.: *See*—
Sheehan, Richard W.; and Williford, Kenneth A., 4,685,179, Cl. 28-248.000.

Willim, Fritz, to Concast Service Union AG. Method for the continuous casting of metal between two axially parallel cooled cylinders. 4,648,439, 3-10-87, Cl. 164-480.000.

Willing, Richard S.: *See*—
Gille, Henrick K.; Willing, Richard S.; Bloom, William G.; Siegel, Bernard; Cheung, Tsang; Lobodzinski, Richard; and Gilroy, Keith, 4,712,567, Cl. 128-771.000.

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Willinger, Allan H., to Willinger Bros., Inc. Aquarium tubules. 4,714,547, 12-22-87, Cl. 210-169.000.

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Willinger, Allan H., 4,699,829, Cl. 428-17.000.
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Willinger, Joseph, to Kuhn S.A. Disk mower substantially preventing soil accumulation on its housing. 4,633,656, 1-6-87, Cl. 56-13.600.

Willingham, W. Preston. Circular game board foldable into small volume. 4,709,928, 12-1-87, Cl. 273-309.000.

Willis, Candler A.: *See*—
Hardy, James H.; Owen, Daniel V.; and Willis, Candler A., 4,675,579, Cl. 315-318.000.

Willis, Clyde A.: *See*—
Haney, Keith M.; and Willis, Clyde A., 4,650,236, Cl. 294-110.100.

Willis, David: *See*—
Nimmo, Neil D.; Kenny, Michael; and Willis, David, 4,637,178, Cl. 52-36.000.

Willis, David H.: *See*—
Neary, John F.; Peddy, John T.; and Willis, David H., 4,696,257, Cl. 119-1.000.

Willis, David P. Door locking device. 4,673,202, 6-16-87, Cl. 292-162.000.

Willis, Donald H., to RCA Corporation. Two-loop line deflection system. 4,636,861, 1-13-87, Cl. 358-158.000.

Willis, Donald H.; and Fling, Russell T., to RCA Corporation. Interlace to non-interlace scan converter for RGB format video input signals. 4,639,763, 1-27-87, Cl. 358-11.000.

Willis, Donald H., to RCA Corporation. Television synchronizing apparatus. 4,639,780, 1-27-87, Cl. 358-150.000.

Willis, Donald H., to RCA Corporation. High voltage control circuit for video display apparatus. 4,645,990, 2-24-87, Cl. 315-411.000.

Willis, Donald H., to RCA Corporation. Video signal recursive filter with luma/chroma separation. 4,646,138, 2-24-87, Cl. 358-36.000.

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Willis, Donald H.; Fling, Russell T.; and Christopher, Todd J., to RCA Corporation. Timing correction circuitry as for TV signal recursive filters. 4,667,240, 5-19-87, Cl. 358-167.000.

Willis, Donald H.; and Rodriguez-Cavazos, Enrique, to RCA Corporation. Circuit for generating a clock signal at an AC line frequency. 4,672,642, 6-9-87, Cl. 377-20.000.

Willis, Donald H.; Fling, Russell T.; and Christopher, Todd J., to RCA Corporation. Television display system with flicker reduction processor having burst locked clock and skew correction. 4,680,632, 7-14-87, Cl. 358-166.000.

Willis, Donald H., to RCA Corporation. Frame comb filter having freeze frame feature. 4,701,785, 10-20-87, Cl. 358-31.000.

Willis, Donald H., to RCA Corporation. Television having luma/-chroma separation apparatus. 4,703,341, 10-27-87, Cl. 358-31.000.

Willis, Donald H.: *See*—
Christopher, Todd J.; Willis, Donald H.; and Fling, Russell T., 4,638,360, Cl. 358-148.000.
Haferl, Peter E.; Sutherland, Hugh F., II; Luz, David W.; McDonald, James A.; Waybright, George C.; and Willis, Donald H., 4,682,085, Cl. 315-371.000.

Willis, Frank M., to Du Pont de Nemours, E. I., and Company. Plasmapheresis filtration module having improved end plate. 4,636,312, 1-13-87, Cl. 210-416.100.

Willis, Frank M., to Du Pont de Nemours, E. I., and Company. Electrical resistance heating element with signal means to indicate first use. 4,647,756, 3-3-87, Cl. 219-243.000.

Willis, Frank M.: *See*—
Luoma, Robert P., II; and Willis, Frank M., 4,639,317, Cl. 210-433.200.
Luoma, Robert P., II; and Willis, Frank M., 4,640,776, Cl. 210-433.200.

Willis, Gordon G.: *See*—
Hunter, Douglas L.; Moore, Stanley E.; and Willis, Gordon G., 4,647,708, Cl. 568-883.000.

Willis, Gregory H., to C. B. & W. Tools, Inc. Integrally-molded unitary supporting member for wood clamp. 4,662,618, 5-5-87, Cl. 269-43.000.

Willis, Jeffrey D., to Rolls-Royce plc. Gas turbine engine gaseous fuel injector. 4,713,938, 12-22-87, Cl. 60-742.000.

Willis, John P.: *See*—
Conover, Gilbert; Minnor, Thaddeus; and Willis, John P., 4,713,165, Cl. 204-403.000.

Willis, Keith M.: *See*—
Willis, Wayne H.; and Willis, Keith M., 4,682,778, Cl. 273-257.000.

Willis, Kenneth E., to Unidynamics Phoenix, Inc. Rocket motor nozzle extension system. 4,676,436, 6-30-87, Cl. 239-265.330.

Willis, Kenneth E.: *See*—
Durrell, Robert R.; and Willis, Kenneth E., 4,643,096, Cl. 102-250.000.

Willis, Mark E., to Mobil Oil Corporation. Method for identifying arrival times of waveforms on acoustic borehole well logs. 4,683,556, 7-28-87, Cl. 367-27.000.

Willis, Mark E., to Mobil Oil Corporation. Acoustic logging method for identifying subsurface formation boundaries. 4,683,557, 7-28-87, Cl. 367-57.000.

Willis, Mark S., to Georgia Kaolin Company, Inc. Method of concentrating slurried kaolin. 4,687,546, 8-18-87, Cl. 159-2.100.

Willis, Peter M., to Johnson Matthey Public Limited Company. Apparatus for measuring electrical potential in a cell. 4,636,732, 1-13-87, Cl. 324-425.000.

Willis, Reid S.: *See*—
Coyne, Brenton S.; Strandjord, Andrew J.; Spence, Mark W.; Willis, Reid S.; Bredeweg, Robert A.; and Stevens, Timothy S., 4,715,217, Cl. 73-61.10C.

Willis, Robert E. Intravaginal device. 4,711,235, 12-8-87, Cl. 128-130.000.

Willis, Robert F.: *See*—
Connelly, Roland L.; Willis, Robert F.; Phelan, Jeremy D.; and Nealen, Kathleen A., 4,688,178, Cl. 364-470.000.

Willis, Thomas G., to Westinghouse Electric Corp. Electric meter with improved sensing head assembly. 4,713,610, 12-15-87, Cl. 324-157.000.

Willis, W. Coy, to Aluminum Company of America. Gauge for comparing circumferences. 4,641,437, 2-10-87, Cl. 33-522.000.

Willis, Wayne H.; and Willis, Keith M. Political game utilizing die with interchangeable faces. 4,682,778, 7-28-87, Cl. 273-257.000.

Willison, Beverly G., to Feco Engineered Systems, Inc. Rotational and retractable container holding device and conveyor therefor. 4,640,406, 2-3-87, Cl. 198-377.000.

Willke, Clemens: *See*—
Arnold, Herbert; Bosch, Walter; Horbelt, Michael; Maisch, Wolfgang; Nusser, Hermann; Peters, Klaus-Jurgen; Werner, Peter; and Willke, Clemens, 4,693,111, Cl. 73-118.100.

Willman, Nils-Erik; Sjogren, Bengt C. H.; Nordh, Lennart G.; Persson, Gustav L.; and Sjoholm, Goran H. Urinary incontinence ameliorating dibenz- b,e- -oxepin and -thiepin derivatives, compositions, and method of use therefor. 4,645,758, 2-24-87, Cl. 514-239.000.

Willmann, Gerd: *See*—
Buschmann, Rudiger; Ganz, Rudolf; Willmann, Gerd; Wirth, Ludwig; Elstner, Ingo; and Jeschke, Peter, 4,710,480, Cl. 501-95.000.

Willmar Poultry Company, Inc.: *See*—
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Willmer, Neil E.: *See*—
Bunge, Richard H.; French, James C.; Hurley, Timothy R.; and Willmer, Neil E., 4,696,794, Cl. 424-118.000.

Willmott, Colin B.; Heitschel, Carl T.; and Wojciak, Bernard J., Jr., to Chamberlain Manufacturing Corporation. Digital light control. 4,716,301, 12-29-87, Cl. 307-115.000.

Willms, Lothar: *See*—
Bender, Albert; Gunther, Dieter; Willms, Lothar; and Wingen, Rainer, 4,650,902, Cl. 564-80.000.

Willmund, Wolf-Dieter; Plapper, Jurgen; Pieper, Friedrich; and Heidrich, Jochen, to Henkel Kommanditgesellschaft auf Aktien. Sulfonated lubricating agents for leather and furs process therefore. 4,654,042, 3-31-87, Cl. 8-94.220.

Willners, Harry; and Kjolseth, Ove. Method for controlling an electrothermal process. 4,698,824, 10-6-87, Cl. 373-49.000.

Willnow, Peter; Lehmann, Paul; Ziegenhorn, Joachim; and Wahlefeld, August W., to Boehringer Mannheim GmbH. Process and reagent for the determination of glycerol with the use of glycerol kinase. 4,705,749, 11-10-87, Cl. 435-15.000.

Willock, Charles B.: *See*—
Gilbaugh, James H., Jr.; and Willock, Charles B., 4,711,250, Cl. 128-765.000.

Willoughby, Arthur F. W.: *See*—
Markvart, Tomas; and Willoughby, Arthur F. W., 4,681,983, Cl. 136-255.000.

Willoughby, Francis E. Fluid current driven machine employing individually self-governing energy panels. 4,678,394, 7-7-87, Cl. 415-2.00R.

Willoughby, Ross C.: *See*—
Browner, Richard F.; and Willoughby, Ross C., 4,687,929, Cl. 250-282.000.

Willow Technology, Inc.: *See*—
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Wurtz, William O., 4,708,268, Cl. 222-238.000.

Wills, Anthony J., to British Petroleum Company P.L.C., The. Pressure container with thermoplastic fusible plug. 4,690,295, 9-1-87, Cl. 220-207.000.

Wills, David C.; Landis, Donald E.; and Lyons, Dale R., to NCR Corporation. Housing for data terminal device. 4,636,781, 1-13-87, Cl. 340-700.000.

Wills, Frank E. Pulse width modulated inverter system for driving single phase a-c induction motor at a constant voltage/frequency ratio. 4,651,079, 3-17-87, Cl. 318-811.000.

Wills, Frank E., to York International Corporation. Pulse width modulated inverter system for driving single phase a-c induction motor. 4,706,180, 11-10-87, Cl. 363-132.000.

Wills, Harry D., to General Electric Company. Optical transmitter receiver switch. 4,634,877, 1-6-87, Cl. 250-551.000.

Wills, Harry D.; and Betthauser, Joseph L., to General Electric Company. Method and apparatus for optically switching current. 4,716,297, 12-29-87, Cl. 250-551.000.

Wills, Robert H., to Yellow Springs Instrument Company, The. Method and apparatus for measuring soil salinity. 4,646,000, 2-24-87, Cl. 324-61.00R.

Wills, William H. Engine protection apparatus. 4,648,364, 3-10-87, Cl. 123-198.00D.

Willsboro Wood Products: *See*—
Hickey, William S., 4,635,998, Cl. 297-31.000.
Hickey, William S., 4,707,023, Cl. 297-31.000.

Willshier, Fred A.: *See*—
Bunge, Daniel C.; Cooper, James J.; Willshier, Fred A.; and Silchenstedt, Edward F., 4,675,946, Cl. 17-45.000.

Willson, Carlton G.: *See*—
Frechet, Jean M. J.; Ito, Hiroshi; MacDonald, Scott A.; and Willson, Carlton G., 4,657,845, Cl. 430-326.000.
Hiraoka, Hiroyuki; Labadie, Jeffrey W.; Lee, James H.; MacDonald, Scott A.; and Willson, Carlton G., 4,690,838, Cl. 427-343.000.
Juliana, Anthony, Jr.; Latta, Milton R.; Sincerbox, Glenn V.; and Willson, Carlton G., 4,645,338, Cl. 356-150.000.

Willson, David H., to AMSTED Industries Incorporated. Filter apparatus with bypass prevention. 4,693,836, 9-15-87, Cl. 210-791.000.

Willson, Richard C., III; Bulot, Eric; and Cooney, Charles L., to Massachusetts Institute of Technology. Use of hydrates for aqueous solution treatment. 4,678,583, 7-7-87, Cl. 210-638.000.

Willson, Richard F.; and Rinehart, Thomas A., to Minnesota Mining and Manufacturing Company. Two-sided optical recording medium. 4,635,076, 1-6-87, Cl. 346-135.100.

Willstead, Donald A.: *See*—
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Willston, Everett S.: *See*—
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Willy Habegger AG: *See*—
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Willy Scheuerle Fahrzeugfabrik GmbH & Co.: *See*—
Wirth, Volkart; and Prechtel, Georg, 4,652,004, Cl. 180-168.000.

Willy Strohmeyer Maschinenbau: *See*—
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Willyard, Dewey L., Jr.; Cline, David E.; and Wulfhorst, David E., to Cummins Atlantic, Inc. Compressor housing having replaceable inlet throat and method for manufacturing compressor housing. 4,676,717, 6-30-87, Cl. 415-196.000.

Willyard, Dewey L., Jr.; Cline, David E.; and Wulfhorst, David E., to Cummins Atlantic, Inc. Method for remanufacturing a compressor housing. 4,691,423, 9-8-87, Cl. 29-156.40R.

Wilmer, Richard K.: *See*—
Kant, Rishi; McEfee, Dennis R.; Roth, Thomas F.; and Wilmer, Richard K., 4,670,804, Cl. 360-102.000.

Wilmes, John H., to Quaker Oats Company, The. Frozen pizza with low fat pastry crust. 4,645,673, 2-24-87, Cl. 426-94.000.

Wilmes, Manfred, to C. A. Weidmuller GmbH & Co. Identification carrier for electric lines. 4,641,443, 2-10-87, Cl. 40-316.000.

Wilmore, Scott H.; and Robinson, Ronald D. Headrest pillow. 4,710,991, 12-8-87, Cl. 5-435.000.

Wilmot, Daniel. Energy management system. 4,695,738, 9-22-87, Cl. 307-31.000.

Wilmot, Richard A.: *See*—
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Wilms, Klaus G.: *See*—
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Freitag, Dieter; Nouvertne, Werner; Tacke, Peter; and Wilms, Klaus G., 4,704,430, Cl. 525-67.000.

Wilnai, Dan: *See*—
Damouny, Nabil G.; Huang, Min-Siu; Wilnai, Dan; and Mor, Yeshayahu, 4,713,750, Cl. 364-200.000.

Wilnau, John A. Structural wall and concrete form system. 4,646,496, 3-3-87, Cl. 52-252.000.

Wilnau, John A. Prefabricated wall section. 4,669,234, 6-2-87, Cl. 52-98.000.

Wilner, George D., to Washington University. Method of stimulating the growth of macrophage-like cells utilizing mitogenic peptides. 4,704,380, 11-3-87, Cl. 514-14.000.

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Wilp, William A. Personal ion inhaler device. 4,671,269, 6-9-87, Cl. 128-202.250.

Wilsberg, Heinz-Manfred, to Henkel Kommanditgesellschaft auf Aktien. Washing process for sensitive fabrics. 4,714,479, 12-22-87, Cl. 8-137.000.

Wilsberg, Heinz-Manfred: *See*—
Kruse, Hans; Koester, Klaus; Carduck, Franz-Josef; Wilsberg, Heinz-Manfred; and Puchta, Rolf, 4,642,197, Cl. 252-98.000.

Wilsey, Harvey J., to Ultra Carbon Corporation. Method of making a segmented heater system. 4,703,556, 11-3-87, Cl. 29-611.000.

Wilshire, John F. K.: *See*—
Evans, Neil A.; Leaver, Ian H.; Rosevear, Judi; Waters, Peter J.; and Wilshire, John F. K., 4,668,235, Cl. 8-115.580.

Wilson, Aaron W.; and Pollock, Richard A., to Vendo Company, The. Vending system and method for preventing multiple product vends. 4,696,413, 9-29-87, Cl. 221-13.000.

Wilson, Alan D.: *See*—
Allen, William M.; Sansom, Bernard F.; Wilson, Alan D.; Prosser, Havard J.; and Groffman, David M., 4,661,339, Cl. 424-486.000.
Beumer, Karl W.; Gaston, Charles A.; Locke, Charles H.; Mack, Alfred; O'Neill, Brian C.; Pinckney, Warren J.; and Wilson, Alan D., 4,642,438, Cl. 219-121.00L.

Wilson, Alan L.: *See*—
Bocci, Paul M.; Pietrzak, Carl M., Jr.; and Wilson, Alan L., 4,710,945, Cl. 375-100.000.
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Wilson, Albert H.: *See*—
Woodley, George M.; and Wilson, Albert H., 4,645,136, Cl. 242-68.300.

Wilson, Alexander I., to Davy McKee (Sheffield) Limited. Rolling mill stand. 4,669,294, 6-2-87, Cl. 72-249.000.

Wilson, Anthony J.: *See*—
Fishwick, Alan J.; Jackson, Robert K.; and Wilson, Anthony J., 4,654,003, Cl. 432-35.000.

Wilson, Arthur M., to Texas Instruments Incorporated. Method for producing an integrated circuit product having a polyimide film interconnection structure. 4,709,468, 12-1-87, Cl. 437-209.000.

Wilson, Austin F.: *See*—
Bullock, Donald F.; and Wilson, Austin F., 4,673,873, Cl. 324-137.000.

Wilson, Barbara H.: *See*—
Wilson, John T., Jr.; and Wilson, Barbara H., 4,713,343, Cl. 435-264.000.

Wilson, Barbara M.: *See*—
Kastle, George E.; Kastle, Jennie R.; Stinedurf, Constance V.; Wilson, James E.; and Wilson, Barbara M., 4,705,276, Cl. 273-309.000.

Wilson, Bart A.; Jenkins, Vaughn J.; and Fonnesbeck, Dale D., to Sperry Corporation. High speed flip-flop. 4,714,837, 12-22-87, Cl. 307-289.000.

Wilson, Bill B.; and Colleran, Steve, to Molex Incorporated. Connector housing. 4,653,831, 3-31-87, Cl. 339-98.000.

Wilson, Bob T.: *See*—
Park, Arthur; and Wilson, Bob T., 4,638,872, Cl. 175-46.000.

Wilson, Buddy A.; and Osborn, Coy D., to T. D. Williamson, Inc. Safety closure member. 4,693,278, 9-15-87, Cl. 138-89.000.

Wilson, Cecil R. Apparatus for mounting a motorcycle engine to a dune buggy. 4,645,172, 2-24-87, Cl. 248-674.000.

Wilson, Charles A.: *See*—
Campbell, Kent D.; Dietsche, Laura J.; Crampton, Lee B.; Hovda, Keith D.; Tyson, George K.; and Wilson, Charles A., 4,713,231, Cl. 423-356.000.
Werner, John A.; Wilson, Charles A.; and Mixan, Craig E., 4,636,565, Cl. 546-345.000.

Wilson, Charles G., to Golden Star, Inc. Method of making mops and mats impregnated with antimicrobial compounds. 4,679,859, 7-14-87, Cl. 300-21.000.

Wilson, Charles G.: *See*—
Gradinger, J. Gary; Quearry, Robert W.; Chalfant, Robert D.; and Wilson, Charles G., 4,644,741, Cl. 57-256.000.

Wilson, Charles S.: *See*—
Chamberlin, Frederick C.; Whynacht, Charles; Carter, Peter D.; and Wilson, Charles S., 4,703,325, Cl. 340-825.170.

Wilson, Chester K. Hydraulic elevator system. 4,687,078, 8-18-87, Cl. 187-17.000.

Wilson, Christine A. Yarn caddy. 4,634,077, 1-6-87, Cl. 242-139.000.

Wilson, Christopher P.: *See*—
Maresca, Joseph W., Jr.; and Wilson, Christopher P., 4,646,560, Cl. 73-49.200.

Wilson, Claude A.: *See*—
Tabereaux, Alton T.; Watts, William E.; and Wilson, Claude A., 4,654,130, Cl. 204-67.000.

Wilson, Clyde D.: *See*—
Spencer, Larry K.; Wilson, Clyde D.; and Vanlangendonck, Robert, 4,645,431, Cl. 417-401.000.

Wilson, Daniel J. Tool handle attachment. 4,669,342, 6-2-87, Cl. 81-489.000.

Wilson, Daniel P. Remote grounding device for subterranean power systems. 4,660,909, 4-28-87, Cl. 339-14.00L.

Wilson, David, to Courtaulds Plc. Warp knitted fabric and method of knitting same. 4,658,604, 4-21-87, Cl. 66-192.000.

Wilson, David: *See*—
Greenwood, John C.; and Wilson, David, 4,660,418, Cl. 73-514.000.
Pitt, Gilles D.; Extance, Philip; and Wilson, David, 4,656,750, Cl. 33-352.000.

Wilson, David A.: *See*—
Crump, Druce K.; Simon, Jaime; and Wilson, David A., 4,680,396, Cl. 544-337.000.
Frenier, Wayne W.; and Wilson, David A., 4,636,327, Cl. 252-87.000.
Pierce, Richard A.; and Wilson, David A., 4,643,839, Cl. 252-75.000.

Wilson, David H.; and Loe, James M., to K-Tron International, Inc. Apparatus and method for improving the accuracy of a loss-in-weight feeding system. 4,635,819, 1-13-87, Cl. 222-58.000.

Wilson, David J. M.; and Cope, Paul E. G., to Marconi Company Limited, The. Rotational motion fluid loop sensor using magnetically levitated detecting element. 4,692,614, 9-8-87, Cl. 250-231.00R.

Wilson, David L., to Siemens Medical Systems, Inc. Angle encoding catheter. 4,671,291, 6-9-87, Cl. 128-658.000.

Wilson, David N.: *See*—
Matthews, Bernard T.; Benstead, Alan J.; Ioll, David J.; Thorp, Sidney; and Wilson, David N., 4,663,170, Cl. 426-90.000.

Wilson, David P.; Basu, Rajat S.; Pham, Hang T.; Lund, Earl A. E.; and Bonner, John K., to Allied Corporation. Azeotrope-like compositions of trichlorotrifluoroethane, methanol, acetone, nitromethane and hexane. 4,654,160, 3-31-87, Cl. 252-153.000.

Wilson, David P.; Pham, Hang T.; Lund, Earl A. E.; Basu, Rajat S.; and Pelava, John W., to Allied Corporation. Azeotrope-like compositions of trichlorotrifluoroethane, methanol, nitromethane, acetone, and methyl acetate. 4,683,075, 7-28-87, Cl. 252-171.000.

Wilson, David P.: *See*—
Basu, Rajat S.; Wilson, David P.; Lund, Earl A. E.; Pham, Hang T.; and Bonner, John K., 4,655,956, Cl. 252-153.000.

Wilson-Diehl, Brenda M. Game board doll. 4,671,514, 6-9-87, Cl. 273-287.000.

Wilson, Donald L.: *See*—
Killion, Mead C.; and Wilson, Donald L., 4,677,675, Cl. 381-68.200.

Wilson, Donna. Means for rendering controls tactually-sensitive. 4,679,342, 7-14-87, Cl. 40-616.000.

Wilson Double Deck Trailers Limited: *See*—
Wilson, Frederick G., 4,656,809, Cl. 52-795.000.

Wilson, Earl C.: *See*—
Possley, Glen G.; and Wilson, Earl C., 4,692,787, Cl. 357-59.000.

Wilson, Edgar R.: *See*—
Frankel, Milton B.; and Wilson, Edgar R., 4,683,085, Cl. 260-349.000.
Frankel, Milton B.; and Wilson, Edgar R., 4,683,086, Cl. 260-349.000.

Wilson, Edward E.: *See*—
Bowsky, Benjamin; Honkomp, Glenn A.; Burrows, Larry G.; and Wilson, Edward E., 4,702,976, Cl. 429-181.000.
Bowsky, Benjamin; Honkomp, Glenn A.; Burrows, Larry G.; and Wilson, Edward E., 4,707,424, Cl. 429-181.000.

Wilson, Edward G., to QMC Industrial Research Limited. Information holding device. 4,670,860, 6-2-87, Cl. 365-106.000.

Wilson, Edward J.: *See*—
Waldron, Gerald E.; and Wilson, Edward J., 4,692,114, Cl. 432-198.000.

Wilson, Eric G., to United Kingdom Atomic Energy Authority. Production of nitride dispersion strengthened alloys. 4,708,742, 11-24-87, Cl. 75-252.000.

Wilson Foods Corporation: *See*—
Cheng, Chin S., 4,683,139, Cl. 426-265.000.

Wilson, Frank: *See*—
Bush, Eugenia; Wilson, Frank; and Woyak, Mark, 4,699,020, Cl. 74-544.000.

Wilson, Fred W.; and Smith, Timothy D., to United States of America, Navy. Retractable, lever action, scroll seal for a surface effect ship. 4,696,362, 9-29-87, Cl. 180-116.000.

Wilson, Frederick G., to F. G. Wilson (Engineering) Limited. Roofs. 4,646,499, 3-3-87, Cl. 52-408.000.

Wilson, Frederick G., to Wilson Double Deck Trailers Limited. Profiled sheet material. 4,656,809, 4-14-87, Cl. 52-795.000.

Wilson, Gary A.: *See*—
Grosch, Josephine; Wilson, Gary A.; Wollweber, Karen; and Yehle, Clifford O., 4,673,638, Cl. 435-34.000.

Wilson, Geoff J.: *See*—
Traut, G. Robert; and Wilson, Geoff J., 4,647,940, Cl. 343-770.000.
Traut, G. Robert; and Wilson, Geoff J., 4,689,629, Cl. 343-770.000.

Wilson, George A., to Ampex Corporation. Adjustable front control panel for a tape transport component arrangement. 4,667,271, 5-19-87, Cl. 361-391.000.

Wilson, George S.; Kline, Harvey E.; and Mackey, Joseph E., to Ausimont, U.S.A., Inc. Method of bonding glass fibers or other substrates to various polymers by oxidizing the molten polymer surface, and articles produced thereby. 4,702,956, 10-27-87, Cl. 428-251.000.

Wilson, Glenn E.; and Lehnert, Charles W., to Georgia-Pacific Corporation. Fire resistant gypsum composition. 4,664,707, 5-12-87, Cl. 106-18.110.

Wilson, Harbld L. Magnetic safety funnel. 4,712,595, 12-15-87, Cl. 141-201.000.

Wilson, Harold R.; and Belka, Allen B., to Haworth, Inc. Work surface with power and communication module. 4,654,756, 3-31-87, Cl. 361-428.000.

Wilson, Harold R.; Ottenjan, Gary; and Bischoff, Gary, to Haworth, Inc. Combined noise seal and retainer for panel. 4,703,598, 11-3-87, Cl. 52-238.100.

Wilson, Harry W.: *See*—
Topham, Arnold. J.; and Wilson, Harry W., 4,637,328, Cl. 111-89.000.

Wilson, Henry A. Worm container. 4,646,682, 3-3-87, Cl. 119-1.000.

Wilson, Henry E.: *See*—
LeBegue, Maurice K.; and Wilson, Henry E., 4,641,888, Cl. 299-64.000.

Wilson, Herbert L.; and Guiterrez, William A., to United States of America, Army. Apparatus for producing high quality epitaxially grown semiconductors. 4,699,084, 10-13-87, Cl. 118-725.000.

Wilson, Herbert L.: *See*—
Gutierrez, William A.; and Wilson, Herbert L., 4,644,221, Cl. 313-373.000.

Wilson, Ian G. Footrest. 4,678,234, 7-7-87, Cl. 297-439.000.

Wilson, J. Pierre: *See*—
Smith, David F.; and Wilson, J. Pierre, 4,642,275, Cl. 429-52.000.

Wilson, Jack O., to Xerox Corporation. Heat and pressure roll fuser and roll engaging mechanism therefor. 4,716,435, 12-29-87, Cl. 355-3.0FU.

Wilson, James A.; and Ellis, James R., to Holland Hitch (AUST.) Ltd. Fifth wheel. 4,671,527, 6-9-87, Cl. 280-438.00R.

Wilson, James A.: *See*—
Cline, J. Douglas; Wilson, James A.; Feher, Stanley H.; and Ward, George D., 4,642,775, Cl. 364-443.000.

Wilson, James D., to Maytag Company, The. Coin actuated appliance with coin collecting apparatus. 4,697,687, 10-6-87, Cl. 194-344.000.

Wilson, James D.: *See*—
Cotton, Curran D.; Ellingson, David I.; Erickson, Donald E.; Noe, William J.; and Wilson, James D., 4,663,538, Cl. 307-38.000.

Wilson, James E.: *See*—
Conant, Louis A.; Bolton, Wilbur M.; and Wilson, James E., 4,678,028, Cl. 165-72.000.
Kastle, George E.; Kastle, Jennie R.; Stinedurf, Constance V.; Wilson, James E.; and Wilson, Barbara M., 4,705,276, Cl. 273-309.000.

Wilson, James L.; and Folweiler, Robert C., to GTE Laboratories Incorporated. Method of fluidic support of a heat softened glass tube. 4,636,239, 1-13-87, Cl. 65-109.000.

Wilson, James L. Air freshener. 4,676,954, 6-30-87, Cl. 422-124.000.

Wilson, James M.; Coller, Dana L.; and Venkataramani, Subramaniam, to Ferro Corporation. Method of precipitating metal titanate powders. 4,670,243, 6-2-87, Cl. 423-598.000.

Wilson, James W. Expandable deck system. 4,691,484, 9-8-87, Cl. 52-79.600.

Wilson, Jan S., to American Home Products Corporation. Rabies vaccine. 4,649,049, 3-10-87, Cl. 424-89.000.

Wilson, Jeffrey V.: *See*—
Inouye, Alan T.; Wilson, Jeffrey V.; and Baker, Mark L., 4,653,331, Cl. 73-800.000.

Wilson, Jerry F.; and Schuster, Richard L., to Manville Sales Corporation. Wrap-around carrier with improved handle. 4,637,515, 1-20-87, Cl. 206-434.000.

Wilson, Jerry F., to Manville Sales Corporation. End closure lock. 4,679,725, 7-14-87, Cl. 229-40.000.

Wilson, Jerry F., to Manville Sales Corporation. Sleeve-type carrier. 4,685,566, 8-11-87, Cl. 206-429.000.

Wilson, Jerry F., to Manville Corporation. Wrap-around carrier. 4,702,375, 10-27-87, Cl. 206-434.000.

Wilson, Jerry F., to Manville Corporation. Sleeve-type carrier handle. 4,706,876, 11-17-87, Cl. 229-52.00B.

Wilson, Jerry L. Exercise chair. 4,638,995, 1-27-87, Cl. 272-144.000.

Wilson, Jesse R.: *See*—
Giles, Grady L.; Wilson, Jesse R.; and Hulett, Terry V., 4,680,760, Cl. 371-21.000.

Wilson, Jimmy L.; and Lieffring, Gordon V., to Vibrosaun USA, Inc. Sauna support bed. 4,671,284, 6-9-87, Cl. 128-373.000.

Wilson, John. Length measuring apparatus. 4,698,512, 10-6-87, Cl. 250-560.000.

Wilson, John A.; Staniewicz, Robert J.; Webber, Bruce; and Allvey, George W., to Saft America, Inc. Vent for an electrochemical cell. 4,664,287, 5-12-87, Cl. 220-89.00A.

Wilson, John A.: *See*—
Hargis, Ivan G.; Fabris, Hubert J.; Livigni, Russell A.; Aggarwal, Sundar L.; Thomas, George B.; and Wilson, John A., 4,669,518, Cl. 152-209.00R.
Hargis, Ivan G.; Fabris, Hubert J.; Livigni, Russell A.; Aggarwal, Sundar L.; Thomas, George B.; and Wilson, John A., 4,670,502, Cl. 524-505.000.

Wilson, John C.; Stevens, Robert A.; Boland, Leona G.; Rajala, Gregory J.; and Kellenberger, Stanley R., to Kimberly-Clark Corporation. Form-fitting self-adjusting disposable garment with fixed position fasteners. 4,701,170, 10-20-87, Cl. 604-385.00A.

Wilson, John C.; Stevens, Robert A.; and Kellenberger, Stanley R., to Kimberly-Clark Corporation. Form-fitting self-adjusting disposable garment with fixed full-length fasteners. 4,701,176, 10-20-87, Cl. 604-385.00A.

Wilson, John C.; Stevens, Robert A.; and Boland, Leona G., to Kimberly-Clark Corporation. Form-fitting self-adjusting disposable garment with two-direction stretchable outer cover. 4,704,114, 11-3-87, Cl. 604-385.00A.

Wilson, John C.: *See*—
Boland, Leona G.; Stevens, Robert A.; Wilson, John C.; and Zehner, Georgia L., 4,710,187, Cl. 604-385.00A.
Kelley, Henry L.; and Wilson, John C., 4,708,305, Cl. 244-17.190.
Stevens, Robert A.; and Wilson, John C., 4,699,621, Cl. 604-385.00A.

Wilson, John D. Cushioned mounting arrangement for a motor housing. 4,648,579, 3-10-87, Cl. 248-638.000.

Wilson, John E. Vehicle mounted satellite antenna system. 4,663,633, 5-5-87, Cl. 343-714.000.

Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, to Westinghouse Electric Corp. Fuel rod for a nuclear reactor having an improved end plug assembly. 4,642,217, 2-10-87, Cl. 376-451.000.

Wilson, John F.; and Gjertsen, Robert K., to Westinghouse Electric Corp. Device for gripping and detaching a top nozzle subassembly from a reconstitutable fuel assembly. 4,646,414, 3-3-87, Cl. 29-426.400.

Wilson, John F.; and Gjertsen, Robert K., to Westinghouse Electric Corp. Device and method for unfastening and lifting a top nozzle subassembly from a reconstitutable fuel assembly. 4,646,415, 3-3-87, Cl. 29-426.500.

Wilson, John F.; Doshi, Pratap K.; and Cerni, Samuel, to Westinghouse Electric Corp. Light water moderator filled rod for a nuclear reactor. 4,664,878, 5-12-87, Cl. 376-328.000.

Wilson, John F.; and Gjertsen, Robert K., to Westinghouse Electric Corp. Removable top nozzle subassembly for a reconstitutable nuclear fuel assembly. 4,670,213, o-2-87, Cl. 376-446.000.

Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, to Westinghouse Electric Corp. Individual source positioning mechanism for a nuclear reactor fuel assembly. 4,678,618, 7-7-87, Cl. 376-156.000.

Wilson, John F.; and Gjertsen, Robert K., to Westinghouse Electric Corp. Method of straightening bowed irradiated fuel assemblies. 4,678,625, 7-7-87, Cl. 376-261.000.

Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, to Westinghouse Electric Corp. Fuel assembly bottom nozzle with integral debris trap. 4,684,495, 8-4-87, Cl. 376-352.000.

Wilson, John F.; and Barry, Robert F., to Westinghouse Electric Corp. Debris trap for a pressurized water nuclear reactor. 4,684,496, 8-4-87, Cl. 376-352.000.

Wilson, John F.; and Gjertsen, Robert K., to Westinghouse Electric Corp. Top nozzle alignment sleeve capture arrangement in a reconstitutable fuel assembly. 4,684,502, 8-4-87, Cl. 376-446.000.

Wilson, John F.; Gjertsen, Robert K.; and Ferrari, Harry M., to Westinghouse Electric Corp. Bow resistant structural member for fuel assemblies in non-control rod locations of a nuclear reactor core. 4,684,504, 8-4-87, Cl. 376-447.000.

Wilson, John F.; Cerni, Samuel; and Gjertsen, Robert K., to Westinghouse Electric Corp. Removable top nozzle and tool for a nuclear reactor fuel assembly. 4,687,619, 8-18-87, Cl. 376-260.000.

Wilson, John F.; Gjertsen, Robert K.; and Cerni, Samuel, to Westinghouse Electric Corp. Water displacer rod with hollow annular support pellets having sealed internal voids. 4,687,627, 8-18-87, Cl. 376-333.000.

Wilson, John F.; Gjertsen, Robert K.; and Ferrari, Harry M., to Westinghouse Electric Corp. Top nozzle mounted reusable fastener device in a reconstitutable nuclear fuel assembly. 4,687,631, 8-18-87, Cl. 376-446.000.

Wilson, John F.; Seel, David D.; and Pepka, James M., to Westinghouse Electric Corp. Reconstitutable fuel assembly having removable upper stops on guide thimbles. 4,702,883, 10-27-87, Cl. 376-446.000.

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Wilson, John F.: *See*—
Doshi, Pratap K.; and Wilson, John F., 4,640,813, Cl. 376-327.000.
Ferrari, Harry M.; and Wilson, John F., 4,652,425, Cl. 376-352.000.
Ferrari, Harry M.; and Wilson, John F., 4,683,116, Cl. 376-447.000.
Freeman, Thomas R.; Wilson, John F.; and Knott, Ronald P., 4,655,995, Cl. 376-267.000.
Gjertsen, Robert K.; and Wilson, John F., 4,671,924, Cl. 376-285.000.
Gjertsen, Robert K.; and Wilson, John F., 4,684,499, Cl. 376-446.000.
Gjertsen, Robert K.; Shallenberger, John M.; and Wilson, John F., 4,684,500, Cl. 376-446.000.
Gjertsen, Robert K.; and Wilson, John F., 4,687,630, Cl. 376-446.000.
Gjertsen, Robert K.; and Wilson, John F., 4,699,761, Cl. 376-446.000.
Marshall, Christopher B.; Wilson, John F.; and Nettleship, Robert, deceased, 4,672,636, Cl. 375-88.000.
Sherwood, Donald G.; Wilson, John F.; Salton, Robert B.; and Fensterer, Howard F., 4,692,296, Cl. 376-209.000.

Wilson, John M.: *See*—
Black, Robert H.; Wilson, John M.; and Brown, James M., 4,670,165, Cl. 252-8.551.

Wilson, John R., to Hewlett Packard Company. Alias detector for digital oscilloscopes. 4,656,598, 4-7-87, Cl. 364-550.000.

Wilson, John T., Jr.; and Wilson, Barbara H., to United States of America, U.S. Environmental Protection Agency. Biodegradation of halogenated aliphatic hydrocarbons. 4,713,343, 12-15-87, Cl. 435-264.000.

Wilson, Johnnie L., to Arahem, Erik M., a part interest. Emergency gas shut-off tool. 4,656,895, 4-14-87, Cl. 81-177.800.

Wilson, Keith B.: *See*—
Shenoy, Thirthahalli A.; and Wilson, Keith B., 4,707,994, Cl. 62-11.000.

Wilson, Kenneth E.; and Zimmerman, Sheldon B., to Merck & Co., Inc. Antibiotics Tejeramycin and production thereof. 4,656,036, 4-7-87, Cl. 424-115.000.

Wilson, Kenneth E.; Monaghan, Richard L.; DeRiso, Cheryl; Zimmerman, Sheldon B.; Hensens, Otto D.; Flor, James E.; Del Val, Sagrario M.; and Fernandez, Maria I. M., to Merck & Co., Inc. Process for the preparation of difficidin and derivative antibacterials. 4,681,846, 7-21-87, Cl. 435-124.000.

Wilson, Kevin: *See*—
Elsworth, John K.; Nownahal, Ali; and Wilson, Kevin, 4,708,371, Cl. 285-13.000.

Wilson, Larry E., to Hamilton Standard Controls, Inc. Electrical current sensor. 4,706,017, 11-10-87, Cl. 324-127.000.

Wilson, Larry L.: *See*—
Deckert, Clinton; and Wilson, Larry L., 4,681,563, Cl. 604-67.000.

Wilson, Larry R.: *See*—
Tomalia, Donald A.; and Wilson, Larry R., 4,713,975, Cl. 73-865.800.

Wilson, Leslie B., to Dayco Products, Inc. Belt tensioning means. 4,696,664, 9-29-87, Cl. 474-138.000.

Wilson, Lillian S., executrix: *See*—
Angevine, Philip J.; Chu, Yung F.; Mitchell, Kenneth M.; Oleck, Stephen M.; Shih, Stuart S.; and Wilson, Robert C., Jr., deceased, 4,696,732, Cl. 208-111.000.

Wilson, Linda S.: *See*—
Quinn, Daniel J.; Mulholland, Wayne A.; Bond, Robert H.; Olla, Michael A.; Cupples, Jerry S.; Tsitovsky, Ilya L.; Mozdzen, Barbara R.; Held, Charles F.; Wilson, Linda S.; and Nguyen, Yen T., 4,685,998, Cl. 156-633.000.

Wilson, Lonny L.: *See*—
Player, Kenneth W.; and Wilson, Lonny L., 4,643,907, Cl. 426-580.000.
Porcello, Sam J.; Manns, James M.; Player, Kenneth W.; and Wilson, Lonny L., 4,711,788, Cl. 426-94.000.

Wilson, Loren R.: *See*—
Kennedy, Donald F.; and Wilson, Loren R., 4,653,193, Cl. 33-379.000.

Wilson, Louis D.; Jones, Patrick M.; and Vrilakas, Mark, Work station for working on workpieces for a plurality of operations. 4,685,333, 8-11-87, Cl. 73-478.000.

Wilson, Marvin C.: *See*—
Bedford, John A.; Elsohly, Hala N.; Wilson, Marvin C.; and Turner, Carlton E., 4,696,819, Cl. 424-195.100.

Wilson, Michael E.: *See*—
Canova, Levy A.; DePasquale, Ralph J.; and Wilson, Michael E., 4,649,063, Cl. 427-230.000.
DePasquale, Ralph J.; and Wilson, Michael E., 4,648,904, Cl. 106-2.000.
Howell, Jerald A.; and Wilson, Michael E., 4,659,452, Cl. 208-89.000.

Wilson, Monti R.; Hutchison, Victor E.; Bendure, William J.; and Anderson, Frederick W., to Opti-Copy, Inc. Method and appaqatus for registering color separation film. 4,641,244, 2-3-87, Cl. 364-475.000.

Wilson, Neil A.: *See*—
Nason, Dale L.; Wilson, Neil A.; and Gray, Richard L., 4,656,202, Cl. 522-89.000.

Wilson, Neill R. Solar heating and cooling apparatus. 4,674,476, 6-23-87, Cl. 126-434.000.

Wilson, Patricia A.: *See*—
Sawyer, Steven D.; Hill, William D.; Wilson, Patricia A.; and Steiner, William M., 4,640,812, Cl. 376-245.000.

Wilson, Patrick J.: *See*—
Nurczyk, Mark E.; Wilson, Patrick J.; and Wood, Tony J., 4,689,801, Cl. 375-9.000.

Wilson, Peggy M.: *See*—
Jennings, Alfred R.; Muegge, Ernest L.; and Wilson, Peggy M., 4,671,360, Cl. 166-312.000.

Wilson, Peter D.: *See*—
Garraway, John; and Wilson, Peter D., 4,656,011, Cl. 423-10.000.

Wilson, Peter H.; and Bayles, Peter W., to Black & Decker Inc. Supports for electric heating elements. 4,668,855, 5-26-87, Cl. 219-370.000.

Wilson, Philip J.: *See*—
Wang, David T. K.; and Wilson, Philip J., 4,697,261, Cl. 370-32.100.

Wilson, Portor C., to Flag-A-Tag, Inc. Flag football device and coupling therefor. 4,651,989, 3-24-87, Cl. 273-55.00C.

Wilson, Ralph A. Powered movable storage enclosure. 4,683,902, 8-4-87, Cl. 135-105.000.

Wilson, Randall B.: *See*—
Nelson, Ronald J.; and Wilson, Randall B., 4,661,961, Cl. 372-46.000.

Wilson, Randall J., to Wilson Reil Associates Limited. Ladder accessory. 4,706,918, 11-17-87, Cl. 248-210.000.

Wilson Reil Associates Limited: *See*—
Wilson, Randall J., 4,706,918, Cl. 248-210.000.

Wilson, Richard A.; Butler, Jerry F.; Withycombe, Donald; Mookherjee, Braja D.; Katz, Ira; and Schrankel, Kenneth R., to International Flavors & Fragrances Inc.; and University of Florida, The. Use of 1-nonen-3-ol for repelling insects. 4,693,890, 9-15-87, Cl. 424-78.000.

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Wilson, Richard A.; and Barbaglia, Joseph C., to Wright, Robert L. Adjustable batting tee. 4,709,924, 12-1-87, Cl. 273-26.00R.

Wilson, Robert, to Atlantic Richfield Company. Well production method using microwave heating. 4,638,863, 1-27-87, Cl. 166-248.000.

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Wilson, Robert M.: *See*—
Echols, John D.; and Wilson, Robert M., 4,664,178, Cl. 165-72.000.

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Wilson, Roger F. Method and apparatus for oscillating a baby to sleep. 4,656,680, 4-14-87, Cl. 5-108.000.

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Riblet, Gordon P.; and Wilson, Ronald A., 4,670,724, Cl. 333-244.000.

Wilson, Ronald C.: *See*—
Rei, Nuno M.; and Wilson, Ronald C., 4,663,077, Cl. 252-364.000.
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Varker, Charles J.; Wilson, Syd R.; and Burnham, Marie E., 4,683,637, Cl. 437-63.000.

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Wimmer, Karl: *See—*
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Wimmer, Martin A., to Motorola, Inc. Parachute reefing/release device. 4,697,765, 10-6-87, Cl. 244-152.000.

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Winans, Esther D.: *See—*
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Winch, Kenneth H.: *See—*
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Wincn, John M., to Advanced Micro Devices, Inc. CMOS-transistor-based digital-to-analog converter. 4,635,038, 1-6-87, Cl. 340-347.0DA.

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Wind, Karen L.: *See—*
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Wind Production Company: *See—*
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Wine, Charles M., to RCA Corporation. Compact disk read only memory recording system with speed control. 4,691,310, 9-1-87, Cl. 369-50.000.
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Magnussen, Haakon T., Jr.; Smith, Gary L.; Ruskewicz, Stephen J.; and Wingo, Anthony K., 4,671,123, Cl. 73-864.160.
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Hansen, Robert R.; and Wingsness, David R., 4,669,681, Cl. 242-137.100.
Wingspread Corporation: *See*—
De Lott, Stuart C., 4,700,409, Cl. 2-94.000.
Winhart, Nikolaus: *See*—
Gosse, August-Wilhelm; and Winhart, Nikolaus, 4,659,138, Cl. 296-201.000.
Winiasz, Michael E., to Harris Graphics Corporation. Conveyor assembly. 4,638,906, 1-27-87, Cl. 198-803.900.
Winiasz, Michael E., to Harris Graphics Corporation. Gripper assembly. 4,681,213, 7-21-87, Cl. 198-803.900.
Winick, Alan L. Automatic emergency rescue apparatus. 4,702,715, 10-27-87, Cl. 441-80.000.
Wink Corporation: *See*—
Stewart, Robert T., 4,674,849, Cl. 350-612.000.
Winkel, Jan; and Vissers, Hermanus H., to Multinorm B.V. Apparatus for farming vegetation lying on the ground. 4,638,377, 8-25-87, Cl. 56-228.000.
Winkel, Jens: *See*—
Meier, Helmut-Martin; Dhein, Rolf; Winkel, Jens; Klein, Gerhard; and Kloker, Werner, 4,634,791, Cl. 560-163.000.
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Reiners, Jurgen; Winkel, Jens; Klauke, Erich; Suling, Carlhans; and Podszun, Wolfgang, 4,665,217, Cl. 560-160.000.
Winkelmann, Hans-Joachim; and Busch, Wolfgang, to Messer Griesheim, GmbH. Device for the protection of cylinder valve for steel cylinders. 4,664,286, 5-12-87, Cl. 220-85.00P.
Winkelmann, Johannes: *See*—
Lautenschlager, Hans-Heiner; Parnham, Michael J.; Leyck, Sigurd; Winkelmann, Johannes; and Brekle, Axel, 4,705,802, Cl. 514-438.000.
Winkelmann, Jurgen: *See*—
Romer, Rudolf; Winkelmann, Jurgen; and Rossmann, Winfried, 4,671,181, Cl. 102-518.000.
Winkelmann, Manfred; Rothfuss, Hans; Muschner, Udo; and Schmitt, Karl H., to Didier-Werke AG. Gas scavenging apparatus for metallurgical vessels. 4,695,043, 9-22-87, Cl. 266-265.000.
Winkelmann, Manfred; Muschner, Udo; and Gerber, Pierre, to Didier-Werke AG. Casing assembly for injecting material into a metallurgical vessel. 4,709,905, 12-1-87, Cl. 266-270.000.
Winkelmann, Manfred: *See*—
Heinz, Michael; Lange, Joachim; Muschner, Udo; Naefe, Herbert; Rothfuss, Hans; Winkelmann, Manfred; and Winkler, Hans-Joachim, 4,711,432, Cl. 266-220.000.
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Winker, James A.; Cannon, Patrick J.; West, Mark L.; and Andrews, Richard A., to Raven Industries, Inc. Deflation and control system for hot air balloons. 4,651,956, 3-24-87, Cl. 244-99.000.
Winkle, Graeme J. Back support means. 4,678,230, 7-7-87, Cl. 297-284.000.
Winkler, Clifford J.: *See*—
Allison, Ricardo A.; Gunter, John B.; Winkler, Clifford J.; Falk, Diane E.; and Chuang, Ray F., 4,649,609, Cl. 29-26.00A.
Winkler, Dietmar: *See*—
Leitgeb, Paul; Leis, Johann; and Winkler, Dietmar, 4,640,694, Cl. 55-26.000.
Winkler & Dunnebier: *See*—
Johnson, Carl W.; and Fries, Kenneth J., 4,674,966, Cl. 425-82.100.
Winkler & Dunnebier Maschinenfabrik und Eisengiesserei GmbH & Co. KG: *See*—
Blumle, Martin, 4,666,145, Cl. 271-276.000.
Blumle, Martin, 4,671,152, Cl. 83-152.000.
Ehlscheid, Guenter; and Hauschild, Gilbert, 4,714,394, Cl. 414-41.000.
Ehlscheid, Gunter; and Munsch, Klaus, 4,674,258, Cl. 53-154.000.
Heyden, Gunter, 4,645,900, Cl. 219-121.01G.
Stemmler, Kurt, 4,642,150, Cl. 156-164.000.
Stemmler, Kurt; and Blumle, Martin, 4,648,503, Cl. 198-410.000.
Stemmler, Kurt, 4,650,480, Cl. 604-368.000.

Stemmler, Kurt, 4,709,606, Cl. 83-94.000.
Winkler, George C., to Chris Development Corporation. Tennis racket with convex throat. 4,662,634, 5-5-87, Cl. 273-73.00G.
Winkler, Gerhard. See—
Achelpöhl, Fritz, Winkler, Gerhard, Tupker, Hermann, and Linkies, Jürgen, 4,701,116, Cl. 4"5.72.00R.
Alberts, Theodor, Baumann, Hans-Richard, and Winkler, Gerhard, 4,651,872, Cl. 73-861.630.
Winkler, Gert, and Zuckinko, Erich, to Rheinmetall GmbH. Upwardly swinging pintle mounting for a gun barrel for a combat vehicle. 4,706,543, 11-17-87, Cl. 89-36.000.
Winkler, Hans. See—
Bendre, Richard, Beutler, Hellmut, Schenkirer, Gerrit, and Winkler, Hans, 4,660,473, Cl. 102-223.000.
Winkler, Hans-Henning, and Rutschle, Eugen, to Chiron-Werke GmbH. Machine tool. 4,683,638, 8-4-87, Cl. 29-568.000.
Winkler, Hans-Henning. See—
Rutschle, Eugen, and Winkler, Hans-Henning, 4,642,875, Cl. 29-568.000.
Winkler, Hans-Joachim. See—
Heinz, Michael, Lange, Joachim, Moschner, Udo, Naefe, Herbert, Rothfuss, Hans, Winkelmann, Manfred, and Winkler, Hans-Joachim, 4,711,432, Cl. 266-220.000.
Winkler, Harry L. Arc welder. 4,705,934, 11-10-87, Cl. 219-137.0PS.
Winkler, Hugo, to Elevator GmbH. Speed limiter for lift provided with catch device. 4,653,612, 3-31-87, Cl. 187-38.000.
Winkler, Jimmy L., See—
Chapka, David E., Gilkey, Mark W., Winkler, Jimmy L., and Markham, Larry D., 4,663,030, Cl. 209-306.000.
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Matthiessen, Hans, and Winkler, Jorg, 4,707,614, Cl. 250-476.000.
Winkler, Marshall N. Retractable greenhouse canopy. 4,706,420, 11-17-87, Cl. 52-66.000.
Winkler, Otmar, Peter, Heinz, Krug, Manfred, Kessler, Siegbert, and Feurer, Ludwig, to SKF GmbH. Schweinfurt. Rotary pump. 4,666,386, 5-19-87, Cl. 418-267.000.
Winkler, Otmar. See—
Brandenstein, Manfred, Hans, Rudiger, and Winkler, Otmar, 4,650,398, Cl. 415-170.00R.
Winkler, Theodore, and Burger, Fredric W., to Brandt, Inc. Compact apparatus for dispensing a preselected mix of paper currency or the like. 4,660,822, 4-28-87, Cl. 271-10.000.
Winkler-Trudewig, Magdalena. See—
Krolla, Hans-Georg, Winkler-Trudewig, Magdalena, and Schumann, Werner, 4,704,371, Cl. 501-40.000.
Winkler, William M. See—
Small, Leonard E., Garrison, Paul H., Jr., Winkler, William M., Seaman, Sharon A., and Papa, Alyce J., 4,673,525, Cl. 252-132.000.
Winkley, Michael W., and McCaully, Ronald J., to American Home Products Corporation. Process for preparing indoline-2-carboxylic acids via α-hydroxy-2-nitrobenzenepropanoic acid. 4,645,857, 2-24-87, Cl. 562-456.000.
Winkley, Michael W. See—
Burby, George C., Jr., Winkley, Michael W., and McCaully, Ronald J., 4,644,091, Cl. 562-456.000.
Winkowski, Daniel A., to National Gypsum Company. Paper buttons. 4,656,805, 4-14-87, Cl. 52-417.000.
Winland, Virgil L., and Matyskella, James J., to Worthington Cylinder Corporation. Device and method for restricting gas flow. 4,697,611, 10-6-87, Cl. 137-14.000.
Winn, Klaus, and Otto, Erich, to Weyel KG. Support arrangement for facilitating a fastening of walls, partition elements and sheve cases. 4,678,148, 7-7-87, Cl. 248-122.000.
Winn, Martin, and Debernardis, John F., to Abbott Laboratories. Use of 2-[(3,5-dibalo-4-aminobenzyl)imidazolines to stimulate alpha-1 adrenergic receptors and to treat nasal congestion. 4,665,095, 5-12-87, Cl. 514-401.000.
Winn, Michael L., See—
Wang, Samuel C., Swab, John M., Winn, Michael L., and Gibbons, Martin D., 4,682,236, Cl. 358-213.260.
Winnemöller, Aleys, to Windmöller & Hölscher. Cutting apparatus for cutting sheet material. 4,691,603, 9-8-87, Cl. 83-151.000.
Winner, Kurt W., and Cangialosi, Ignazio. Window sash assembly. 4,640,048, 2-3-87, Cl. 49-181.000.
Winner, Sol N. Airline electrical ground cable feed out and retrieval storage apparatus. 4,692,569, 9-8-87, Cl. 191-12.00R.
Winnett, Jerry A. See—
Criner, Charles B., and Winnett, Jerry A., 4,655,293, Cl. 168-4.000.
Winney, Norman E., Jr. See—
Kaplan, Gary M., Karau, Robert T., Winney, Norman E., Jr., and Brader, David G., 4,640,413, Cl. 206-232.000.
Winnick, Stuart. Protective device for electrical receptacles. 4,652,696, 3-24-87, Cl. 174-67.000.
Winnik, Francoise M. See—
Hair, Michael L., Lok, Kar P., and Winnik, Francoise M., 4,705,567, Cl. 106-20.000.
Winnik, Mitchell A., and Williamson, Brett, to University of Toronto Innovations Foundation, The. Preparation of poly(methylmethacrylate) polymer particles. 4,644,041, 2-17-87, Cl. 526-201.000.
Winnipeg Rh Institute Inc., The. See—
Friesen, Albert D., and Grassler, Walter F., 4,678,278, Cl. 350-319.000.
Winogrocki, Ray F. Seat switch. 4,695,682, 9-22-87, Cl. 200-5.00R.
Winquist, Marvin E., See—
Gurgiolo, Arthur E., Winquist, Marvin E., Knobel, Thomas S., and Teeters, Dale C., 4,643,953, Cl. 428-520.000.
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Winquist, Nelson H., See—
Archer, Wendel E., Milton, James L., Reinert, Paul W., and Winquist, Nelson H., 4,638,274, Cl. 338-52.000.
Winship, Ralph D., to Combustion Engineering, Inc. Method of producing dry sulfur oxide absorbent material into a furnace. 4,655,16[illegible]
Winski, Dennis A., to Moore Special Tool Co., Inc. Automatic [illegible] feedrate control for machine tools. 4,643,622, 2-17-87, Cl. 409-143.0[illegible]
Winski, Ernest P., McMurry, Clifton B., and Muskoff, Leonard Peter, 4,704,060, 11-3-87, Cl. 414-68.000.
Winslow, Donald W. See—
McMahan, Michael F., Newman, Daniel A., Winslow, Donald W., and Zunkel, Gary D., 4,691,779, Cl. 166-321.000.
Winslow, Louis E., Bennett, Richard E., and Overstreet, Thomas S., Minnesota Mining and Manufacturing Company. Removable pressure-sensitive adhesive tape. 4,645,711, 2-24-87, Cl. 428-355.000.
Winslow, Russell T., and Gonda, Thomas M. Fixture for wave soldering packaged integrated circuits. 4,700,935, 10-20-87, Cl. 269-126.00.
Winson, John P. Fountain type applicator for ink or the like and cartridge therefor. 4,659,243, 4-21-87, Cl. 401-197.000.
Winsor, Malcolm C. See—
Cedrone, Louis A., Vahjen, Bruce, Garvin, Richard T., Wilson, Thomas F., and Winsor, Malcolm C., 4,699,295, Cl. 222-108.00.
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Goldstein, Yeshayahu S. A., Tidmor, Derek A., Burton, Robert J., Massey, Dennis W., and Winsor, Niels K., 4,735,20[illegible] 89-8.000.
Winstanley, Ray, Farrell, Trevor, and Booth, Malcolm, to Electricity Council, The. Charge-load support for a glow discharge furnace. 4,663,763, 5-5-87, Cl. 373-26.000.
Winston, Anthony, Assadih, Anthony, and Uwe, Norman, to Church & Dwight Co., Inc. Sodium bicarbonate-containing tooth powder. 4,663,153, 5-5-87, Cl. 424-52.000.
Winston, Arthur W., to Wincom Corporation. Energy conservation system. 4,675,828, 6-23-87, Cl. 364-483.000.
Winston, John H., to Outboard Marine Corporation. Multiple-part foam pattern and method of making same. 4,671,021, 6-9-87, Cl. 164-246.000.
Winston, Steven J. See—
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Winston, Walter E., and Atkinson, Lowell G., to Trinic Automated Painting Systems. Leakage detection in remote supply painting systems. 4,661,045, 4-28-87, Cl. 417-9.000.
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von Laar, Klaus, Heberlein, Werner, and Winter, Cavit, 4,660,[illegible] Cl. 89-25.000.
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Winter, David C., and Wood, William R., to Deere & Company. Sl[illegible] dumping crop shield. 4,715,449, 12-29-87, Cl. 172-553.000.
Winter, Dean C. See—
Sheng, Hwai-Ping, Garza, Cuberto, Winter, Dean C., and Dodd, William G., 4,640,130, Cl. 73-579.000.
Winter, Edward M., Price, David E., and Hook, James E., to Colonial Gas System Service Corporation. Heat shield. 4,641,598, 2-10-87, Cl. 110-203.000.
Winter, Edward M. See—
Reid, Edward A., Jr., Cook, F. Bert, Winter, Edward M., Price, Edgar M., Jr., and Krause, Horatio H., Jr., 4,646,581, Cl. 82-476.000.
Winter, Frank. See—
Nordmeyer, Friedrich, Schunk, Eckard, Winter, Frank, and Isaacson, Clive L., 4,646,318, Cl. 375-105.000.
Winter, Heike. See—
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Winter, Heinrich, and Kufner, Walter, to SKF GmbH. Rolling bearing arrangement, in particular for work rolls in high-speed rolling mills. 4,714,359, 12-22-87, Cl. 384-571.000.
Winter, Heinrich. See—
Vogt, Gunter, and Winter, Heinrich, 4,687,350, Cl. 384-491.000.
Winter, Hermann. See—
Hammer, Klaus-Dieter, Siebrecht, Manfred, Wallhauser, Klaus, Heinz, and Winter, Hermann, 4,662,403, Cl. 138-118.800.
Hammer, Klaus-Dieter, Siebrecht, Manfred, and Winter, Hermann, 4,666,750, Cl. 428-36.000.
Hammer, Klaus-Dieter, Winter, Hermann, and Kanzler, Ulrich, 4,670,273, Cl. 426-105.000.
Winter, Howard J. Book rest with page retainer. 4,712,760, 12-15-87, Cl. 248-451.000.
Winter, Jeremy N. See—
Feast, William J., and Winter, Jeremy N., 4,673,731, Cl. 528-503.000.

Winter, John L., to Rolls-Royce. Gas turbine engines. 4,702,670. 10-27-87. Cl. 415-116.000.

Winter, John P., to Presto Products, Incorporated. Polyethylene/-polyester nonoriented heat sealable moisture barrier film and bag. 4,705,707. 11-10-87. Cl. 428-35.000.

Winter, John P., to Presto Products, Incorporated. Polypropylene/-polyester nonoriented heat sealable moisture barrier film and bag. 4,716,061. 12-29-87. Cl. 428-35.000.

Winter, Joseph; and Pryor, Michael J., to Olin Corporation. Process and apparatus for fabricating optical fiber cables. 4,711,388. 12-8-87. Cl. 225-140.000.

Winter, Joseph. *See*—
Pryor, Michael J.; Winter, Joseph; and Dantzig, Jonathan A., 4,638,535. Cl. 29-1.300.

Winter, Manfred. *See*—
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Winter, Robert A., to Merriman/Yacht Specialties, Inc. Pedestal base angle lever control unit. 4,646,588. 3-3-87. Cl. 74-476.000.

Winter, Rodger C. *See*—
Bonucci, Stephen T.; Douville, Richard L.; and Winter, Rodger C., 4,712,598. Cl. 160-84.000R.

Winter, Roger D. *See*—
Mobley, Lawrence R.; Nordstrom, Mark E.; and Winter, Roger D., 4,713,880. Cl. 16-111.000R.

Winter, Roland A. E.; and Malherbe, Roger F., to Ciba-Geigy Corporation. Process for preparing nitroxyls of sterically hindered amines. 4,665,185. 5-12-87. Cl. 546-184.000.

Winter, Roland A. E.; and Dellefield, Robert E., to Ciba-Geigy Corporation. Liquid 2-(2-hydroxy-3-higher branched alkyl-5-methylphenyl)-2H-benzotriazole mixtures, stabilized compositions and processes for preparing liquid mixtures. 4,675,352. 6-23-87. Cl. 524/91.000.

Winter, Roland A. E.; Ravichandran, Ramanathan; and Seltzer, Raymond, to Ciba-Geigy Corporation. Alkylated N,N-dibenzylhydroxylamines and polyolefin compositions stabilized therewith. 4,703,073. 10-27-87. Cl. 524-99.000.

Winter, Roland A. E. *See*—
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Winter, Russell K.; Harvey, Thomas D.; and Savas, Nedim, to Russell William, Ltd. Display system. 4,646,923. 3-3-87. Cl. 217-109.000.

Winter, Russell K.; Harvey, Thomas D.; Savas, Nedim; and Kam, Richard S., to Russell William, Ltd. Fastener for coupling panels. 4,650,261. 3-17-87. Cl. 312-140.000.

Winter, Scott H.; and Carbone, Mark S. Supplemental cooling device for a refrigerating unit. 4,635,449. 1-13-87. Cl. 62-457.000.

Winter, Trevor; and Macey, William, to General Electric Company p.l.c., The. Antenna feed polarizer. 4,714,930. 12-22-87. Cl. 343.786.000.

Winter, Walter W.; Gothard, Steven E.; and Drew, John H., to Golden Enterprises, Inc. Telephone operator voice storage and retrieval system. 4,697,282. 9-29-87. Cl. 379-67.000.

Winterbottom, Robert J. H.; and Edwards, Walter G., to AE PLC. Computer controlled machine tool. 4,672,550. 6-9-87. Cl. 364-474.000.

Winterbottom, Robert J. H. *See*—
Edwards, Walter C.; and Winterbottom, Robert J. H., 4,646,596. Cl. 82-19.000.

Winterbottom, Walter L. *See*—
Tucher, Ragnar P.; Winterbottom, Walter L.; and Wrobblowa, Halina S., 4,649,022. Cl. 419-24.000.

Winterer, Hermann, to Erwin Sick GmbH Optik-Elektronik. Protective zone device for a vehicle. 4,668,859. 5-26-87. Cl. 250-221.000.

Winterhalter, Walter; and Habsig, Andreas, to Gebruder Junghans GmbH. Safety fuse for a spinning-type projectile. 4,691,635. 9-8-87. Cl. 102-251.000.

Winterhalter, Walter. *See*—
Habsig, Andreas; Moosmann, Horst; Winterhalter, Walter; and Westphal, Gunter, 4,653,402. Cl. 102-245.000.

Winterhoff, Hans, to RXS Schrumpftechnik-Garnituren GmbH. Heat shrinkable connection comprising a variable channel and a cooperating element. 4,714,280. 12-22-87. Cl. 285-381.000.

Winterog, Joseph G.; and Werle, William C. Effluent cleansing method and device. 4,657,566. 4-14-87. Cl. 55-73.000.

Winterling, Stig. Package box. 4,688,716. 8-25-87. Cl. 229-137.000.

Winternheimer, Sylvester A. *See*—
Hassan, Marc R.; and Winternheimer, Sylvester A., 4,706,169. Cl. 362-26.000.

Winternitz, Paul. *See*—
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Winters, Arthur; and Melee, Casper S., to Victory Engineering Corp. Stereotaxis catheter for microwave thermotherapy. 4,683,122. 7-21-87. Cl. 128-736.000.

Winters, Arthur R., Jr. *See*—
Shenoy, Thirthahalli A.; and Winters, Arthur R., Jr., 4,637,218. Cl. 62-54.000.

Winters, Burnham F., Jr. *See*—
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Winters, Daniel. *See*—
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Winters, Danny J. Apparatus for rotatably mounting arrowheads. 4,671,517. 6-9-87. Cl. 273-421.000.

Winters, Geert. *See*—
den Hollander, Cornelis J.; and Winters, Geert, 4,651,328. Cl. 375-25.000.

Winters, Jack H., to AT&T Bell Laboratories. Wireless PBX/LAN system with optimum combining. 4,639,914. 1-27-87. Cl. 370-110.100.

Winters, John J., to Automotive Products plc. Friction clutch for a vehicle. 4,646,897. 3-3-87. Cl. 192-98.000.

Winters, John J. *See*—
Ball, Robert J.; and Winters, John J., 4,682,680. Cl. 192-98.000.

Winters, Jonathan K.; and Savell, Fredrick B., III, to Ashland Oil, Inc. Water-borne permanent coating compositions and processes therefor. 4,659,360. 4-21-87. Cl. 106-14.140.

Winters Jr., Arthur R. *See*—
Stuber, Wayne G.; Studer, David W.; and Winters Jr., Arthur R., 4,659,351. Cl. 62-18.000.

Winters, Scott L. *See*—
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Winters, Warren J.; Brett, J. Ford; and Warren, Tommy M., to Amoco Corporation. Drill bit. 4,655,303. 4-7-87. Cl. 175-329.000.

Winters, Warren J. *See*—
Warren, Tommy M.; Winters, Warren J.; and Brett, J. Ford, 4,660,656. Cl. 175-26.000.
Warren, Tommy M.; Winters, Warren J.; and Brett, J. Ford, 4,705,117. Cl. 175-65.000.

Wintershall AG. *See*—
Lindorfer, Walter; and Juhn-Held, Wilhelm, 4,692,061. Cl. 405-128.000.

Wintershall Aktiengesellschaft. *See*—
Lindorfer, Walter; Schulz, Walther; Wagner, Fritz; and Juhn-Held, Wilhelm, 4,663,059. Cl. 210-241.000.

Wintersteen, Douglas C., to General Motors Corporation. Accumulator-dehydrator assembly for an air conditioning system. 4,633,679. 1-6-87. Cl. 62-474.000.

Wintersteen, Douglas C., to General Motors Corporation. Accumulator-dehydrator assembly for an air conditioning system. 4,698,985. 10-13-87. Cl. 62-474.000.

Winterstein, James F. *See*—
Sportelli, Louis; and Winterstein, James F., 4,707,846. Cl. 378-145.000.

Winterstein, Wolfgang. *See*—
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Winterton, Arvin O. Apparatus and method for detecting an open ground connection. 4,649,454. 3-10-87. Cl. 361-50.000.

Winthagen, Leon M. W.; and Schipper, Georgius H., to Oce-Nederland B.V. Electrophotographic copying device with means to effect uniform aging of photoconductive element. 4,657,373. 4-14-87. Cl. 355-3.00R.

Winthrop, Marilyn P. Apparatus for dispensing and applying nail polish. 4,640,637. 2-3-87. Cl. 401-101.000.

Winyard, David C., to United States of America, Navy. Compressor-scavenging eductor system. 4,655,698. 4-7-87. Cl. 418-85.000.

Winzenburg, Mark L. *See*—
Fields, Ellis K.; Winzenburg, Mark L.; and Behrend, Steven J., 4,638,072. Cl. 549-234.000.

Winzer, Frederick W., to Emhart Industries, Inc. Rack aligning fixture and method of its use. 4,684,390. 8-4-87. Cl. 65-133.000.

Winzer, Gerhard. *See*—
Amann, Markus-Christian; Mahlein, Hans F.; Stegmueller, Bernhard; Thulke, Wolfgang; Winzer, Gerhard; and Wolff, Ulrich, 4,656,636. Cl. 372-50.000.
Mahlein, Hans F.; Reichelt, Achim; and Winzer, Gerhard, 4,637,682. Cl. 350-96.150.
Mahlein, Hans F.; Michel, Herbert; Reichelt, Achim; and Winzer, Gerhard, 4,682,843. Cl. 350-96.150.

Winzer, Helmut. *See*—
Mumcu, Salih; and Winzer, Helmut, 4,687,838. Cl. 528-496.000.
Mumcu, Salih; Aurich, Hans P.; and Winzer, Helmut, 4,689,364. Cl. 524-497.000.

Wire Rope Corporation of America, Inc. *See*—
Wheeler, Claude R., 4,635,432. Cl. 57-221.000.

Wire Rope Industries Ltd. *See*—
Smyth, Laurence C., 4,667,462. Cl. 57-217.000.

Wire Tech Incorporated. *See*—
Arass, Louis A., Jr., 4,652,072. Cl. 339-103.00R.

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Wirfelt, Sven A. O., to Santrade Limited. Tool mounting. 4,642,006. 2-10-87. Cl. 409-233.000.

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Wirick, Michael P., to United States of America, Air Force. Moving aperture device for reducing scattered light in an optical system. 4,634,854. 1-6-87. Cl. 250-216.000.

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Wirkus, Clarence L. Float device. 4,635,392. 1-13-87. Cl. 43-44.900.

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Wirtgen, Reinhard. Apparatus for working deposits by the open-cast working process. 4,678,236, 7-7-87, Cl. 299-1.000.

Wirtgen, Reinhard. Scraping roller mounting means for scraping machines for scraping off roads. 4,714,295, 12-22-87, Cl. 299-39.000.

Wirth, Axel: *See*—
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Wirth, Craig L. Rappel rope deployment bag. 4,662,517, 5-5-87, Cl. 206-388.000.

Wirth, David D.: *See*—
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Wirth, Emil J., Jr., to Pfizer Inc. Wire injection nozzle. 4,705,261, 11-10-87, Cl. 266-287.000.

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Wirth, Gary J.; Behlmer, Robert F.; and Hoyt, Steven D., to W. H. Brady Co. Marker sleeve processing machine. 4,655,129, 4-7-87, Cl. 101-35.000.

Wirth, Heinz, to Eisen- und Drahtwerk Erlau Aktiengesellschaft. Seat. 4,703,976, 11-3-87, Cl. 297-445.000.

Wirth, Hermann O.; Muller, Klaus; and Friedrich, Hans-Helmut, to Ciba-Geigy Corporation. Boron-containing compounds. 4,689,162, 8-25-87, Cl. 252-32.70E.

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Wirth, Ronald P., to Henkel Corporation. Diester derivatives of tocopherol. 4,665,204, 5-12-87, Cl. 549-410.000.

Wirth, Volkart; and Prechtel, Georg, to Willy Scheuerle Fahrzeugfabrik GmbH & Co. Steer guiding device. 4,652,004, 3-24-87, Cl. 180-168.000.

Wirth, Xaver, to Knorr-Bremse AG. Shaft braking disc for rail vehicle disc brake. 4,638,891, 1-27-87, Cl. 188-58.000.

Wirth, Xaver, to Knorr-Bremse AG. Link joint between a brake cylinder and a brake linkage. 4,638,892, 1-27-87, Cl. 188-59.000.

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Wirz, Arno, to Heidelberger Druckmaschinen AG. Covering for sheet-supporting cylinders and drums in rotary offset printing presses. 4,688,784, 8-25-87, Cl. 271-195.000.

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Wirz, Peter, to Leybold-Heraeus GmbH. Spectrophotometer. 4,669,873, 6-2-87, Cl. 356-73.000.

Wirz, Walter, to Reishauer AG. Apparatus for machining a spur gear by means of a rotating gearlike tool. 4,635,404, 1-13-87, Cl. 51-105.0HB.

Wirz, Walter, to Reishauer AG. Device for grinding tooth profiles of a rotating toothed workpiece. 4,697,387, 10-6-87, Cl. 51-88.000.

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Wischusen, Henry, III; and Fletcher, Richard J., to Du Pont de Nemours, E. I., and Company; and Rock-Tenn Company. End-or top-dispensing container with tuck closure. 4,676,430, 6-30-87, Cl. 229-140.000.

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Wise, Robert D.; Quinlan, Robert L., Jr.; Lauro, Charles W.; and Bradd, Sidney H., Jr., to Gerber Products Company. Child's car seat restraint system. 4,655,506, 4-7-87, Cl. 297-467.000.

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Witte, Ernst-Christian: *See*—
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Bodilaj, Viktor; Moustakas, Steven; and Witte, Hans-Herman, 4,663,767, Cl. 375-55.000.
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Heidemann, Gerhard; and Witte, Johannes, 4,694,917, Cl. 175-299.000.
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Wittich, Kurt, to Mannesmann Rexroth GmbH. Parking brake valve for a hydraulic external force brake system. 4,652,059, 3-24-87, Cl. 303-89.000.

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Wittke, Ernest C. Gear assisted continuously variable transmission. 4,682,511, 7-28-87, Cl. 74-681.000.

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Wittlinger, Gerhard, to Wuerttembergische Metallwarenfabrik AG. Coffee percolator. 4,694,737, 9-22-87, Cl. 99-279.000.

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Wittman, Kenneth L. Strap mounting assembly for electric guitars permitting multiple guitar rotations. 4,715,259, 12-29-87, Cl. 84-327.000.

Wittmann, Alois; Isaacs, Theodore M.; and Murphy, John R., to Hughes Aircraft Company. Payload depolyment from shuttle employing an ejection restraint device. 4,679,752, 7-14-87, Cl. 244-158.00R.

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Wittmann, Franz: *See*—
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Wittmann, Heinz, to TMC Corporation. Heel holder. 4,662,648, 5-5-87, Cl. 280-614.000.

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Artzt, Peter; Muller, Heinz; Egbers, Gerhard; Bohm, Gunther; Wittmann, Stephan; and Karl, Rupert, 4,653,260, Cl. 57-263.000.
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Wittmer, Dale E.: *See*—
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Wittmer, Marc F.: *See*—
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Wittnebel, Bruce W., to Minnesota Mining and Manufacturing Company. Transparent sheet material for electrostatic copiers. 4,711,816, 12-8-87, Cl. 428-412.000.

Wittren, Richard A., to Deere & Company. Flow amplifying steering system. 4,640,094, 2-3-87, Cl. 60-385.000.

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Wittwer, Alfred, to EMS-Inventa AG. Method of manufacturing a pole body for an electric fuse, pole body for an electric fuse and method of using the pole body. 4,686,903, 8-18-87, Cl. 102-202.500.

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Witty, Michael J.: *See*—
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Witty, Thomas R.; Curry, Robert E.; and Smith, Roger E., to Becton, Dickinson and Company. Self-contained reagent package device and an assay using same. 4,675,299, 6-23-87, Cl. 436-165.000.

Witucki, Edward F.; Warren, Leslie F., Jr.; and Newman, Paul R., to Rockwell International Corporation. Method of stabilizing conductive polymers. 4,692,225, 9-8-87, Cl. 204-59.00R.

Witucki, Edward F.; and Warren, Leslie F., to Rockwell International Corporation. Process for producing polypyrrole powder and the material so produced. 4,697,000, 9-29-87, Cl. 528-423.000.

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Maus, Louis; Witucki, Edward F.; and Warren, Leslie F., 4,696,835, Cl. 427-121.000.
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Witz, Ruediger: *See*—
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Witzel, Bruce E.: *See*—
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Witzel, Homer D.: *See*—
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Witzel, John R.; and Weisgerber, Paul J., to Cincinnati Milacron Inc. Method and apparatus for aligning cutting tools. 4,712,953, 12-15-87, Cl. 409-131.000.

Witzel, Karlheinz, to Sueddeutsche Kuehlerfabrik Julius Fr. Behr GmbH & Co. KG. Heating or air-conditioning ventilation unit for motor vehicles. 4,712,611, 12-15-87, Cl. 165-122.000.

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Witzke, Duane W.: *See*—
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Wixon, Harold E., to Colgate-Palmolive Co., The. Method for making a phosphate containing concentrated heavy duty particulate laundry detergent. 4,666,738, 5-19-87, Cl. 427-214.000.
Wixon, Harold E., to Colgate-Palmolive Co., The. Phosphate-free concentrated particulate heavy duty laundry detergent. 4,666,740, 5-19-87, Cl. 427-214.000.
Wizards Ice Cream & Confectionery Shoppe, Ltd.: *See*—
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Wizer Equipment, Inc.: *See*—
Laverick, William J., 4,654,762, Cl. 362-97.000.
Wlodarczyk, Marek T.; Krage, Mark K.; and O'Rourke, Michael J., to General Motors Corporation. Self aligning fiber optic microbend sensor. 4,678,903, 7-7-87, Cl. 250-227.000.
Wlodek, Stanley T., to Electric Power Research Institute. Method of heat treating of wear resistant coatings and compositions useful therefor. 4,666,733, 5-19-87, Cl. 427-34.000.
Wlodyka, Edwin W.: *See*—
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Wnek, Gary E.; and Whitney, Duncan H., to Massachusetts Institute of Technology. Substituted acetylenic polymers and conductive materials formed therefrom. 4,672,093, 6-9-87, Cl. 525-356.000.
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Wnuck, Wayne G.; Dec, Bryan J.; and Jarvis, Raymond J., to International Fuel Cells Corporation. Method for fabricating molten carbonate ribbed anodes. 4,654,195, 3-31-87, Cl. 419-2.000.
Wnuck, Wayne G.: *See*—
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Wnukiewicz, Stanley A., Jr., to Daylab, Ltd. Photographic print making and developing tray assembly. 4,645,324, 2-24-87, Cl. 354-312.000.
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Wober, Gunter: *See*—
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Philapitsch, Anton; Wober, Gunter; Eibl, Johann; and Schwarz, Otto, 4,687,664, Cl. 424-85.000.
Wobick, Robert F.; Anderson, William B.; Counter, Louis F.; and Dindinger, Phil M., to Rexnord Inc. Elevator bucket for high speed operation. 4,688,669, 8-25-87, Cl. 198-712.000.
Wobrak, Robert E.: *See*—
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Wobshall, Darold: *See*—
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Wodnicki, Glen G.; and Czarnecki, Carl, to United Technologies Automotive, Inc. Housing inciuding a test button secured thereto with a living hinge. 4,701,581, 10-20-87, Cl. 200-52.00R.
Wodnicki, Tomasz J. Postage stamp dispenser. 4,685,994, 8-11-87, Cl. 156-517.000.
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Woelfel, Julian B., to Ohio State University, The. Leaf gage and wafer. 4,654,005, 3-31-87, Cl. 433-72.000.
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Alper, Howard; Despeyroux, Bertrand; Smith, David J. H.; and Woell, James B., 4,681,707, Cl. 260-410.90R.
Woeller, Fritz H.; and Matsumoto, Yutaka, to United States of America, National Aeronautics and Space Administration. Self-compensating solenoid valve. 4,681,142, 7-21-87, Cl. 137-614.180.
Woerman, Gary R. Lifter-carrier for cylindrical objects. 4,652,196, 3-24-87, Cl. 414-24.500.
Woerndle, Rudolf, to Messerschmitt-Bolkow-Blohm GmbH. Connecting device comprising a bolt and a loop around the bolt. 4,715,589, 12-29-87, Cl. 267-148.000.
Woerner, Frank P.; Neumann, Peter; Mahnke, Harald; Lamprecht, Josef; Horn, Dieter; Turznik, Gerhard; Kraus, Friedrich; Kaeppel, Hanshelmut; and Heim, Eduard, to BASF Aktiengesellschaft. Preparation of resilient melamine foams. 4,666,948, 5-19-87, Cl. 521-105.000.
Woerner, Guenter; Tscheplak, Ernst; and Moser, Franz, to Daimler-Benz Aktiengesellschaft. Apparatus for reducing vehicle drive train vibrations. 4,714,449, 12-22-87, Cl. 464-68.000.
Woerner, Paul F.: *See*—
Bhat, Deepak G.; Shah, Dhirajlal C.; Kyle, John R.; and Woerner, Paul F., 4,640,693, Cl. 51-295.000.
Bhat, Deepak G.; Woerner, Paul F.; and Sarin, Vinod, 4,670,024, Cl. 51-295.000.
Woertz, Hans, to Oskar Woertz, Inhaber Hans Woertz. Threadless electric terminal. 4,708,417, 11-24-87, Cl. 439-828.000.
Woestelandt, Emile. Coupling structure between a towing vehicle and a towed vehicle. 4,714,264, 12-22-87, Cl. 280-456.00R.
Woestenburg, Dirk P.: *See*—
Dimock, Jack A.; and Woestenburg, Dirk P., 4,676,884, Cl. 204-298.000.
Woestman, John W., to RCA Corporation. Circuit for controlling the ink level of an intaglio printing device. 4,709,633, 12-1-87, Cl. 101-163.000.
Woffendin, Arnold, to Silentnight Holdings PLC. Spring packing apparatus. 4,669,247, 6-2-87, Cl. 53-116.000.
Woffinden, Gary A.; and Petolino, Joseph A., Jr., to Amdahl Corporation. Apparatus for reducing storage necessary for error correction and detection in data processing machines. 4,651,321, 3-17-87, Cl. 371-38.000.
Woffinden, Gary A., to Amdahl Corporation. Translation of virtual and real addresses to system addresses. 4,654,790, 3-31-87, Cl. 364-200.000.
Woffinden, Gary A.; and Hanson, Donald L., to Amdahl Corporation. Data storage unit employing translation lookaside buffer pointer. 4,682,281, 7-21-87, Cl. 364-200.000.
Wofford, Barry. Dental flossing device. 4,660,584, 4-28-87, Cl. 132-92.00A.
Wofford, Benjamin G.: *See*—
Odabashian, Robert A.; and Wofford, Benjamin G., 4,635,295, Cl. 383-127.000.
Wogoman, Frank W., to Miles Laboratories, Inc. Automated handling system. 4,710,351, 12-1-87, Cl. 422-50.000.
Wogoman, Frank W.: *See*—
Khoja, Mirza A.; and Wogoman, Frank W., 4,689,202, Cl. 422-65.000.
Wohead, Michael J. Luminescent floating sinker. 4,693,030, 9-15-87, Cl. 43-42.220.
Wohl, Laszlo: *See*—
Dombay, Zsolt; Grega nee Toth, Erzsebet; Nagy, Jozsef; Pavlicsak, Csaba; Tasi, Laszlo; Toth, Andras; Toth, Oszkar; Vitanyi, Judit; Bihari, Ferenc; Bohus, Peter; Inczedy, Peter; Magyar, Istvan; Kertesz nee Szabo, Marianna; Wohl, Laszlo; and Ferenczi, Attila, 4,670,429, Cl. 514-187.000.
Wohl, Ronald A.: *See*—
Diamond, Julius; Lumma, William C., Jr.; Morgan, Thomas K., Jr.; and Wohl, Ronald A., 4,689,341, Cl. 514-399.000.
Erhardt, Paul W.; Hagedorn, Alfred A., III; Lumma, William C., Jr.; and Wohl, Ronald A., 4,709,043, Cl. 548-318.000.
Wohlabaugh, Leonard M.: *See*—
Houman, Leif; and Wohlabaugh, Leonard M., 4,638,141, Cl. 219-69.00R.
Houman, Leif; and Wohlabaugh, Leonard M., 4,654,499, Cl. 219-69.00G.
Wohld, Dietrich: *See*—
Weihrich, Georg; and Wohld, Dietrich, 4,685,063, Cl. 364-472.000.
Wohler, Johann F., to General Dynamics Land Systems, Inc. Active protection system. 4,682,528, 7-28-87, Cl. 89-1.300.
Wohlers, Heinz: *See*—
Dellinger, Juergen; Kraemer, Ulrich; Schlieske, Rainer; and Wohlers, Heinz, 4,659,041, Cl. 224-139.000.
Wohlfeil, Gerhard, to Jagenberg Aktiengesellschaft. Coating apparatus with edge protection for paper webs. 4,706,603, 11-17-87, Cl. 118-410.000.
Wohlford, William P.; and Hovenga, LaVern B., to Deere & Company. Endless track flexor having cord reinforced tensile load-carrying plate. 4,645,273, 2-24-87, Cl. 305-40.000.
Wohlford, William P.; and Poore, Bernard B., to Deere & Company. Restraints for controlling undesired deflection of track link sections embodying a flexor. 4,645,274, 2-24-87, Cl. 305-47.000.
Wohlford, William P.; and Hovenga, LaVern B., to Deere & Company. Tamper-resistant supervisory system. 4,716,401, 12-29-87, Cl. 340-568.000.
Wohlgemuth, Juergen, to Siemens Aktiengesellschaft. Test device for a dental percussion instrument. 4,713,962, 12-22-87, Cl. 73-11.000.
Wohlgemuth, Jurgen, to Siemens Aktiengesellschaft. Dental percussion instrument. 4,689,011, 8-25-87, Cl. 433-121.000.
Wohlhieter, George M.: *See*—
Rudolph, John M.; and Wohlhieter, George M., 4,694,570, Cl. 29-740.000.
Wohlmuth, Clinton J.: *See*—
Johns, Kent L.; and Wohlmuth, Clinton J., 4,686,348, Cl. 219-121.0PY.
Wohltjen, Henry: *See*—
Barger, William R.; Jarvis, Neldon L.; Snow, Arthur W.; and Wohltjen, Henry, 4,636,767, Cl. 338-34.000.
Wohrl, Alfons: *See*—
Spies, Hans; Wohrl, Alfons; and Schmidt, Roland, 4,676,166, Cl. 102-362.000.

Wohrl, Bernhard; and Jahn, Alfred, to MT Motoren-und Turbinen Union Munchen GmbH. Heat exchangers having a tube matrix in a housing. 4,679,619, 7-14-87, Cl. 165-81.000.

Wohrl, Bernhard, to MTU Motoren-und Turbinen-Union Munchen GmbH. Apparatus for securing a component exposed to elevated temperature to a thermally insulated wall. 4,694,895, 9-22-87, Cl. 165-136.000.

Wohrle, Albert, to J. M. Voith GmbH. Scraping apparatus. 4,637,338, 1-20-87, Cl. 118-126.000.

Wohrle, Albert, deceased. *See*—
Beisswanger, Rudolf; Wohrle, Albert, deceased; and Plomer, Anton, 4,700,658, Cl. 118-67.000.

Wohrle, Ingrid, executor. *See*—
Beisswanger, Rudolf; Wohrle, Albert, deceased; and Plomer, Anton, 4,700,658, Cl. 118-67.000.

Wohrle, Rudolf. *See*—
Kober, Kurt; Wohrle, Rudolf; and Kohler, Robert, 4,664,402, Cl. 280-446.00B.

Wohrstein, Franz X., *See*—
Pasternak, Stephen F.; and Wohrstein, Franz X., 4,637,111, Cl. 29-157.30A.

Woidke, Richard P. *See*—
Bethell, Michael R.; Gaines, Michael G.; Mowat, James F., Jr.; Wheeler, Roger D.; and Woidke, Richard P., 4,712,353, Cl. 53-80.000.

Woidt, Jurgen; and Fries, Wolfgang, to Varta Batterie A. G. Process for manufacturing negative cadmium electrodes for sealed alkaline battery cells. 4,713,126, 12-15-87, Cl. 146-6.14R.

Woien, Arne. *See*—
Sorensen, H. Rahbek; and Woien, Arne, 4,676,789, Cl. 623-2.000.

Woike, Theo; Krasser, Wolfgang; and Haussuhl, Siegfried, to Kernforschungsanlage Julich GmbH. Optical switch, especially for information storage and retrieval. 4,713,795, 12-15-87, Cl. 365-119.000.

Woillez, Jacques. *See*—
Lecoffre, Yves; and Woillez, Jacques, 4,702,837, Cl. 210-512.300.

Woirgard, Guy. *See*—
Remy, Michel; Delaite, Jean-Francois; and Woirgard, Guy, 4,655,089, Cl. 72-306.000.

Woith, Blake F. *See*—
Borsuk, Leslie M.; and Woith, Blake F., 4,666,238, Cl. 350-96.200.

Woithe, Herbert. *See*—
Spriestersbach, Jochen; and Woithe, Herbert, 4,603,614, Cl. 164-113.000.

Woito, David W. *See*—
Walsh, Edward; and Woito, David W., 4,716,478, Cl. 360-104.000.

Wojciak, Bernard J., Jr. *See*—
Willmott, Colin B.; Heitschel, Carl T.; and Wojciak, Bernard J., Jr., 4,716,301, Cl. 307-115.000.

Wojciechowski, Charles R., to General Electric Company. High pressure seal. 4,713,546, 12-15-87, Cl. 250-374.000.

Wojciechowski, Felix. Apparatus for handling parts. 4,666,358, 5-19-87, Cl. 414-223.000.

Wojciechowski, Longine J., to Reinforced Earth Company, The. Retaining wall construction and method for erection. 4,684,287, 8-4-87, Cl. 404-6.000.

Wojcik, David R.; Jones, Richard J.; and Aufiero, James M., to Itek Corporation. Realtime digital diagnostic image processing system. 4,680,628, 7-14-87, Cl. 358-111.000.

Wojcik, David R.; and Studwell, Thomas W., to Itek Corporation. Digital image frame processor. 4,689,823, 8-25-87, Cl. 382-41.000.

Wojcik, Michael S., to Du Pont de Nemours, E. I., and Company. Multilevel imaging of photopolymer relief layer for the preparation of casting molds. 4,668,607, 5-26-87, Cl. 430-281.000.

Wojcik, Paul E. Method for electrostatic coating threaded fasteners with a thermoplastic resin. 4,656,051, 4-7-87, Cl. 427-33.000.

Wojcik, Robert M. *See*—
Thompson, Timothy F.; and Wojcik, Robert M., 4,649,515, Cl. 364-900.000.

Wojcinski, Allan S. Contamerized shooting range. 4,683,688, 8-4-87, Cl. 52-79.100.

Wojnar, Jeffrey S. *See*—
Lock, Brian E.; and Wojnar, Jeffrey S., 4,693,286, Cl. 141-61.000.

Wojnarowski, Robert J.; and Eichelberger, Charles W., to General Electric Company. Alternate field luminance enhancement in a spectrum conserving television system. 4,646,149, 2-24-87, Cl. 358-141.000.

Wojnarowski, Robert J. *See*—
Eichelberger, Charles W.; and Wojnarowski, Robert J., 4,646,135, Cl. 358-12.000.
Eichelberger, Charles W.; Wojnarowski, Robert J.; and Mihran, Theodore G., 4,646,152, Cl. 358-166.000.
Eichelberger, Charles W.; and Wojnarowski, Robert J., 4,714,516, Cl. 156-628.000.
Welles, Kenneth B., II; Wojnarowski, Robert J.; and Eichelberger, Charles W., 4,646,151, Cl. 358-149.000.

Wojskowa Akademia Techniczna. *See*—
Dabrowski, Roman; Dziaduszek, Jerzy; Szulc, Jaroslaw; Witkiewicz, Zygfryd; Stolarz, Zofia; Kenig, Krystyna; and Adamska, Gabriela, 4,676,924, Cl. 252-299.610.

Wojtanek, Guy A., to Eaton Corporation. Illuminated switch assembly with combined light and light shield. 4,683,359, 7-28-87, Cl. 200-314.000.

Wojtowicz, John A., to Olin Corporation. Process for producing cyanuric acid from urea hydrohalides. 4,656,271, 4-7-87, Cl. 544-192.000.

Wokas, William J. *See*—
Patel, Mansukh M.; Reed, Michael A.; Wokas, William J.; and Kures, Vasek J., 4,671,961, Cl. 426-3.000.
Patel, Mansukh M.; Reed, Michael A.; Wokas, William J.; and Kures, Vasek J., 4,671,967, Cl. 426-658.000.

Wokasien, Carlyle H. *See*—
Wight, Robert D.; and Wokasien, Carlyle H., 4,664,234, Cl. 188-322.210.

Wokaun, Jacek. *See*—
Artzt, Peter; Muller, Heinz; Ziegler, Kurt; Egbers, Gerhard; and Wokaun, Jacek, 4,700,431, Cl. 19-105.000.

Wokoeck, Ortwin. *See*—
Kaiser, Bernhard; and Wokoeck, Ortwin, 4,715,223, Cl. 73-161.000.

Wolanski, Richard B. *See*—
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Wolaver, Dan H.; and Little, Warren E., to General Signal Corporation. High speed phase locked loop filter circuit. 4,682,116, 7-21-87, Cl. 328-167.000.

Wolber, Wolfgang, to Zumtobel Aktiengesellschaft. Bed reading lamp, particularly for hospital beds. 4,680,684, 7-14-87, Cl. 362-223.000.

Wolcott, Anna M. Bed cover lifter. 4,644,599, 2-24-87, Cl. 5-504.000.

Wolcott, Dana W., to Eastman Kodak Company. Apparatus for producing copies of a video image utilizing line pattern rotation. 4,660,098, 4-21-87, Cl. 358-332.000.

Wolcott, Dana W., to Eastman Kodak Company. Apparatus for producing a full resolution color photographic copy of a color video signal. 4,688,104, 8-18-87, Cl. 358-332.000.

Wolcott, Dana W., to Eastman Kodak Company. Color video printer includes a color viewer and image adjustment controls which are inhibited during exposure. 4,695,902, 9-22-87, Cl. 358-332.000.

Wolcott, Dana W. *See*—
Cloutier, Robert P.; Gates, Richard A.; and Wolcott, Dana W., 4,659,200, Cl. 354-121.000.
Hansen, David E.; Kelbe, Richard R.; and Wolcott, Dana W., 4,690,531, Cl. 354-149.110.

Wolcott, Edward O.; and Croix, Raymond. Paint roller cleaner and remover. 4,667,361, 5-26-87, Cl. 15-236.00R.

Wolcott, Herbert A.; and McHaney, James H., to Atlantic Richfield Company. Well flow line choke. 4,712,579, 12-15-87, Cl. 137-375.000.

Wolcott, Herbert A., II, to Atlantic Richfield Company. Choke valve. 4,638,833, 1-27-87, Cl. 137-312.000.

Wolcott, Wayne B., to Electro Adapter. Banding tool. 4,688,607, 8-25-87, Cl. 140-93.200.

Wolcott, Wayne B., to Electro Adapter. Band finishing tool. 4,696,327, 9-29-87, Cl. 140-150.000.

Wold, Jay S. Method and apparatus for use with a safety harness. 4,678,205, 7-7-87, Cl. 280-808.000.

Woletz, Peter. *See*—
Romer, Manfred; Woletz, Peter; and Kruger, Klaus, 4,640,938, Cl. 522-79.000.

Wolf, Albert E., to Checkpoint Systems, Inc. Article security system. 4,692,747, 9-8-87, Cl. 340-572.000.

Wolf, Alexander, to Keystone Development Corporation. Gas-gun for acoustic well sounding. 4,646,871, 3-3-87, Cl. 181-106.000.

Wolf, Anthony D., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,645,530, 2-24-87, Cl. 71-91.000.

Wolf, Anthony D. *See*—
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Wolf, Barry M. *See*—
Solcz, Edward J.; Domoto, Gerald A.; and Wolf, Barry M., 4,691,212, Cl. 346-108.000.

Wolf, Bodo. *See*—
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Wolf, Charles B. *See*—
Fey, Maurice G.; Wolf, Charles B.; and Thunberg, Stefan L. G., 4,668,853, Cl. 219-121.0PN.

Wolf, David L. *See*—
Lewis, D. Michael; Wolf, David L.; and Russell, Ray L., 4,671,046, Cl. 53-488.000.
Olsen, Peter C., Jr.; Conforto, Peter M.; Wolf, David L.; and Hudson, Donald R., 4,693,055, Cl. 53-443.000.
Olsen, Peter C., Jr.; Conforto, Peter M.; Craighead, Jimmy R.; and Wolf, David L., 4,709,538, Cl. 53-566.000.

Wolf, Elmar. *See*—
Disteldorf, Josef; Hubel, Werner; and Wolf, Elmar, 4,668,749, Cl. 540-202.000.
Gras, Rainer; Riemer, Heinz; and Wolf, Elmar, 4,658,005, Cl. 528-45.000.

Wolf, Emil. *See*—
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Wolf, Erich. *See*—
Pleines, Peter; and Wolf, Erich, 4,696,297, Cl. 128-303.100.

Wolf, Ewald. *See*—
Leitzke, Ortwin; and Wolf, Ewald, 4,656,010, Cl. 422-186.180.

Wolf, F. Andrew, Jr. Sailboat tiller. 4,633,800, 1-6-87, Cl. 114-144.00R.

Wolf, Friedrich. *See*—
Schmid, Theobald; Widmaier, Horst; and Wolf, Friedrich, 4,649,246, Cl. 200-159.00B.

Wolf-Gerate GmbH. *See*—
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Orthey, Gerhard, 4,650,090, Cl. 221-185.000.
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Wolf, Gerhard D.: *See*—
Sirinyan, Kirkor; Wolf, Gerhard D.; von Gizycki, Ulrich; and Merten, Rudolf, 4,636,441, Cl. 428-447.000.
Sirinyan, Kirkor; Merten, Rudolf; and Wolf, Gerhard D., 4,661,384, Cl. 427-304.000.

Wolf, Gunter: *See*—
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Satzinger, Gerhard; Hartenstein, Johannes; Mannhardt, Karl; Kleinschroth, Jurgen; Herrmann, Manfred; Fritschi, Edgar; Tauschel, Horst-Dietmar; Wagner, Bernd; and Wolf, Gunter, 4,698,341, Cl. 514-230.000.

Wolf, Hans-Dieter: *See*—
Finkler, Klaus; and Wolf, Hans-Dieter, 4,658,412, Cl. 378-99.000.

Wolf, Hans P.: *See*—
Di Maria, Donelli J.; and Wolf, Hans P., 4,662,719, Cl. 350-332.000.
Harder, Christoph S.; Wolf, Hans P.; Baechtold, Werner; Gueret, Pierre L.; and Baratoff, Alexis, 4,675,711, Cl. 357-22.000.
Harder, Christoph S.; Jaeckel, Heinz; and Wolf, Hans P., 4,711,858, Cl. 437-99.000.

Wolf, Hans-Peter: *See*—
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Wolf, Harley: *See*—
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Wolf, Heinz: *See*—
Fabinski, Walter; Apel, Willi; Bernhardt, Guenter; Jezdinsky, Rudolf; and Wolf, Heinz, 4,671,664, Cl. 356-440.000.
Schuster, Gert; Vierrath, Helmut; Kupfer, Hans; and Wolf, Heinz, 4,643,739, Cl. 48-86.00R.

Wolf, Heinz K., and Mukherjee, Jyoti, to Warner & Swasey Company, The. Machine tool. 4,715,102, 12-29-87, Cl. 29-27.00R.

Wolf, Helmut: *See*—
Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, 4,693,848, Cl. 260-402.000.
Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, 4,695,412, Cl. 260-507.00R.
Balzer, Wolf-Dieter; Bechtolsheimer, Hans-Heinrich; Beyer, Karl-Heinz; Fikentscher, Rolf; Perner, Johannes; Widder, Rudi; and Wolf, Helmut, 4,705,649, Cl. 260-402.000.
Lorenz, Klaus; Balzer, Wolf-Dieter; Wolf, Helmut; Trieselt, Wolfgang; and Busse, Gerd, 4,704,453, Cl. 536-18.600.

Wolf-Heuss, Elisabeth: *See*—
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Wolf, Holly J.: *See*—
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Wolf, Horst, to Zinser Textilmaschinen GmbH. Machine for producing twisted filaments. 4,635,431, 1-13-87, Cl. 57-105.000.

Wolf, Horst, to Zinser Textilmaschinen GmbH. Spinners. 4,646,391, 3-3-87, Cl. 19-258.000.

Wolf, Horst, to Zinser Textilmaschinen GmbH. Spinning or twisting machine. 4,679,389, 7-14-87, Cl. 57-304.000.

Wolf, Horst, to Zinser Textilmaschinen GmbH. Spinning or twisting machine with a drive belt performance monitor. 4,691,508, 9-8-87, Cl. 57-78.000.

Wolf, Horst, to Zinser Textilmaschinen GmbH. Spinning or twisting machine. 4,694,643, 9-22-87, Cl. 57-100.000.

Wolf, Horst; and Blosl, Karl, to Zinser Textilmaschinen GmbH. Cooling apparatus for an electrical cabinet of a textile machine. 4,699,208, 10-13-87, Cl. 165-47.000.

Wolf, Horst: *See*—
Junginger, Helmut; Wolf, Horst; and Jager, Wolfgang, 4,644,236, Cl. 318-309.000.

Wolf, James A., Jr.: *See*—
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Wolf, James L.; Bardwick, Alan S.; and Sallis, Daniel V., to Advanced Technology Products, Inc. Timed pill monitor and dispenser. 4,662,537, 5-5-87, Cl. 221-89.000.

Wolf, Joachim. Filter cartridge for fluids. 4,711,717, 12-8-87, Cl. 210-137.000.

Wolf, Joachim E.; Maiden, Charles W.; Kruper, Andrew P.; and Johnson, Frederick O., to Westinghouse Electric Corp. Conveyor brake control. 4,664,247, 5-12-87, Cl. 198-323.000.

Wolf, Johann, to Johann Wolf Gesellschaft m.b.H. KG. Device for joining contiguous beams by means of nailing plates. 4,688,712, 8-25-87, Cl. 227-152.000.

Wolf, Johann, to Johann Wolf Gesellschaft m.b.H. KG. Nailing plate for the production of compound supports, and compound support. 4,710,083, 12-1-87, Cl. 411-466.000.

Wolf, Jurgen: *See*—
Holderle, Hans; Wolf, Jurgen; Eckhart, Horst; and Vonderau, Werner, 4,711,225, Cl. 123-590.000.

Wolf, Karlheinz: *See*—
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Wolff, Joachim; Koll, Jochen; Wolf, Karlheinz; Klipper, Reinhold M.; and Lange, Peter M., 4,702,744, Cl. 8-527.000.
Wolff, Joachim; and Wolf, Karlheinz, 4,711,642, Cl. 8-527.000.

Wolf, Kenneth E. Level sensing unit and a level indicating device based thereon. 4,685,218, 8-11-87, Cl. 33-366.000.

Wolf, Klaus: *See*—
Heina, Karl-Fritz; Hornung, Adolf; Worner, Kurt; and Wolf, Klaus, 4,643,412, Cl. 271-94.000.

Wolf, Klaus-Ullrich: *See*—
Ohlendorf, Heinrich-Wilhelm; Ruhland, Michael; and Wolf, Klaus-Ullrich, 4,672,062, Cl. 514-227.000.

Wolf, Kurt; and Andre, Wolfram K., to Kurt Wolf & Co. KG. Apparatus for controlling and adjusting heat output during the heating phase of a cooking vessel. 4,682,012, 7-21-87, Cl. 219-490.000.

Wolf, Kurt; and Andre, Wolfram K., to Kurt Wolf & Co. KG. Apparatus for controlling and adjusting heat output during the heating phase of a steam pressure cooking vessel. 4,700,052, 10-13-87, Cl. 219-497.000.

Wolf, Kurt: *See*—
Andre, Wolfram K.; and Wolf, Kurt, 4,682,013, Cl. 219-497.000.

Wolf, Lothar, to Lothar A. Wolf Spezialmaschinen GmbH. Machine for producing small mounds of an almond fragment/chocolate mass substance. 4,650,410, 3-17-87, Cl. 425-92.000.

Wolf, Martin F., to United States of America, National Aeronautics and Space Administration. Planar oscillatory stirring apparatus. 4,655,604, 4-7-87, Cl. 366-219.000.

Wolf, Michael A.; and Crowell, John M., to United States of America, Energy. Radiation detector spectrum simulator. 4,658,222, 4-14-87, Cl. 331-78.000.

Wolf, Michael A.: *See*—
Gutschick, Vincent P.; Barron, Michael H.; Waechter, David A.; and Wolf, Michael A., 4,678,330, Cl. 356-222.000.

Wolf, Michael L.: *See*—
Cartmell, James V.; Burcham, Larry R.; and Wolf, Michael L., 4,635,642, Cl. 128-639.000.
Cartmell, James V.; Burcham, Larry R.; and Wolf, Michael L., 4,699,679, Cl. 156-242.000.

Wolf, Morris A. Method for making merchandising display isometers. 4,712,286, 12-15-87, Cl. 29-463.000.

Wolf, Peter G.: *See*—
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Wolf, Peter H.: *See*—
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Wolf, Reinhard: *See*—
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Wolf, Reinhold: *See*—
Bauer, Karl-Heinz; and Wolf, Reinhold, 4,646,206, Cl. 362-12.000.

Wolf, Robert C., to Fluitron, Inc. Reduction of failure incidence of metallic diaphragms for compressors. 4,644,847, 2-24-87, Cl. 92-78.000.

Wolf, Roger H., and Johnson, Bruce L. Chimney cleaner. 4,657,597, 4-14-87, Cl. 134-8.000.

Wolf, Stephen F.; and Hegel, Ramon F., to Minnesota Mining and Manufacturing Company. Environmentally protected optical recording media. 4,652,498, 3-24-87, Cl. 428-461.000.

Wolf, Stephen H.: *See*—
Weiss, Gilbert; D'Amelia, Ronald P.; Reggio, Richard A.; and Wolf, Stephen H., 4,656,039, Cl. 426-5.000.

Wolf, Tobin. Non-tippable toy. 4,666,418, 5-19-87, Cl. 446-273.000.

Wolf, Ulrich: *See*—
Aschberger, Matthias; Farber, Karlheinz; Wolf, Ulrich; and Dem-inger, Anton, 4,665,809, Cl. 99-323.100.

Wolf, Walter; and Schulz, Harald, to Josef Gartner & Co. Spacer, 4,649,685, 3-17-87, Cl. 52-398.000.

Wolf, William. Bag frame. 4,705,246, 11-10-87, Cl. 248-97.000.

Wolfbeis, Otto: *See*—
Marsoner, Hermann; Kroneis, Herbert; and Wolfbeis, Otto, 4,657,736, Cl. 422-56.000.

Wolfbeis, Otto S.; and Offenbacher, Helmut, to AVL AG. Method for determining ionic strength of a sample. 4,716,118, 12-29-87, Cl. 436-2.000.

Wolfbeis, Otto S.: *See*—
Harnisch, Horst; and Wolfbeis, Otto S., 4,659,657, Cl. 435-21.000.

Wolfe, Alger W., Jr., to Security Technologies. Removable magnetic switch security system for buildings. 4,700,163, 10-13-87, Cl. 335-205.000.

Wolfe, Allan P.: *See*—
Mason, Stanley L., Jr.; Wolfe, Allan P.; and Turner, Robert B., 4,706,600, Cl. 118-31.500.

Wolfe, Brian A.: *See*—
Hall, Leslie C., Jr.; Meyer, David L.; and Wolfe, Brian A., 4,682,391, Cl. 29-33.00M.

Wolfe, Donald E., Sr. Adjustable carriage for electric string trimmer. 4,688,376, 8-25-87, Cl. 56-16.700.

Wolfe, Donald J., Jr. Center pivot irrigation system. 4,662,563, 5-5-87, Cl. 239-1.000.

Wolfe, Donald L.: *See*—
Swensrud, Roger L.; Ziegler, James R.; Soroka, Daniel P.; and Wolfe, Donald L., 4,650,959, Cl. 219-125.100.

Wolfe, Gary E.: *See*—
Hensler, Paul L.; Kelso, Frederick J.; Wolfe, Gary E.; and Zeh, Peter H., 4,656,019, Cl. 423-315.000.

Wolfe, Henry S. Floating platform for decorative articles. 4,662,30[illegible], 5-5-87, Cl. 114-264.000.

Wolfe, Herbert, to Sultan Dental Products, Ltd. Dental impression tray, 4,689,010, 8-25-87, Cl. 433-38.000.

Wolfe, Homer O., Jr.; and Dockery, Allison A., to PPG Industries, Inc. Pallet-type package and packaging system and trays therefore [illegible]

transporting, storing and unloading bobbin yarn. 4,667,823, 5-26-87, Cl. 206-392.000.

Wolfe, James F.; Sybert, Paul D.; and Sybert, Joanna R., to CommTech International. Liquid crystalline polymer compositions, process and products. 4,703,103, 10-27-87, Cl. 528-179.000.

Wolfe, James R., Jr., to Du Pont de Nemours, E. I., and Company. Thermoplastic composition of polyolefin and high ethylene content ethylene/alkyl acrylate elastomer. 4,710,544, 12-1-87, Cl. 525-194.000.

Wolfe, John M.: *See*—
Jensen, Roger A.; and Wolfe, John M., 4,704,961, Cl. 101-114.000.

Wolfe, John N.: *See*—
Gabriele, Joseph M.; Sam, George J., Sr.; Wolfe, John N.; and Parekh, Navinchandra J., 4,691,333, Cl. 378-37.000.

Wolfe, John R., III: *See*—
Frank, Jimmy I.; and Wolfe, John R., III, 4,700,484, Cl. 33-142.000.

Wolfe, Larry L.: *See*—
Kantor, Sherwood; Selby, Garry J.; and Wolfe, Larry L., 4,681,424, Cl. 355-14.00R.

Wolfe, Loren K.: *See*—
Chandler, Kenneth E.; and Wolfe, Loren K., 4,644,699, Cl. 49-502.000.

Wolfe, Mark E.: *See*—
Young, William M.; and Wolfe, Mark E., 4,710,395, Cl. 427-8.000.

Wolfe, Maynard F. Information devices. 4,679,522, 7-14-87, Cl. 281-5.000.

Wolfe, Paul T.: *See*—
Goumas, Peter G.; and Wolfe, Paul T., 4,680,523, Cl. 318-685.000.

Wolfe, Raymond: *See*—
Brandle, Charles D., Jr.; Fratello, Vincent J.; and Wolfe, Raymond, 4,698,820, Cl. 372-41.000.
Dillon, Joseph F., Jr.; Hegarty, John; and Wolfe, Raymond, 4,671,621, Cl. 350-403.000.

Wolfe, Saul; Westlake, Donald; and Jensen, Susan, to Queen's University at Kingston. Enzyme immobilization for producing cephalosporin antibiotics. 4,693,977, 9-15-87, Cl. 435-180.000.

Wolfe, Sidney N.: *See*—
Shaked, Ze'ev; and Wolfe, Sidney N., 4,650,758, Cl. 435-105.000.

Wolfe, Travis W.: *See*—
Emanis, Russell B.; Wallace, Don L.; Wolfe, Travis W.; and Emanis, Waverly B., 4,636,203, Cl. 604-257.000.

Wolfe, William R.; and Marschik, David, to Westinghouse Electric Corp. Face connected instrument transformer. 4,713,642, 12-15-87, Cl. 336-92.000.

Wolfe, William R.: *See*—
Mallick, George T., Jr.; Wolfe, William R.; and Cumberledge, Edward L., 4,704,546, Cl. 307-355.000.

Wolfenden, John R., to Coal Industry (Patents) Limited. Steering of mining machines. 4,643,482, 2-17-87, Cl. 299-1.000.

Wolfenson, Gilbert B.; and Dworetzky, Philip J. Oral impression tray for forming a mouthguard. 4,668,188, 5-26-87, Cl. 433-37.000.

Wolfer, Allan J.: *See*—
Bergstrom, Donald J.; and Wolfer, Allan J., 4,710,691, Cl. 318-696.000.

Wolfersperger, Daniel J., to Societe Alsacienne D-Aluminium. Process for manufacturing covers for containers opened by peeling off the cover. 4,636,273, 1-13-87, Cl. 156-244.110.

Wolfert, Gerhard: *See*—
Bohg, Armin; Fischer, Ludwig; Gantz, Bruno; Hartmann, Kurt; and Wolfert, Gerhard, 4,688,012, Cl. 335-276.000.

Wolfert, Ludwig G.: *See*—
Rempt, Raymond D.; and Wolfert, Ludwig G., 4,671,659, Cl. 356-358.000.

Wolfes, Wilhelm: *See*—
Huttinger, Rudolf; Kollmeier, Hans-Joachim; Langenhagen, Rolf-Dieter; Walter, Alfred; and Wolfes, Wilhelm, 4,698,178, Cl. 252-309.000.

Wolff, Donald L.; McCauley, Porter T.; Stiefel, Paul; Takacs, Gyoergy J.; and Adams, Roman A., to Cole-Parmer Instrument Company. Control method and apparatus for peristaltic fluid pump. 4,715,786, 12-29-87, Cl. 417-22.000.

Wolff, Friedrich. Lamp for emission of radiation in UV and visible light ranges of the spectrum. 4,683,379, 7-28-87, Cl. 250-493.100.

Wolff, Friedrich. Skin tanning apparatus. 4,707,184, 10-27-87, Cl. 250-504.00R.

Wolff, George: *See*—
Ellion, M. Edmund; and Wolff, George, 4,692,559, Cl. 136-262.000.

Wolff, George D.: *See*—
Fulkerson, David E.; and Geske, Marvin L., 4,687,994, Cl. 324-251.000.

Wolff, Harold E., to Dresser Industries, Inc. Soft seat Y-pattern check valve. 4,679,584, 7-14-87, Cl. 137-269.000.

Wolff, James W., and Hsiao, James C., to Union Special Corporation. Sewing machine looper throw-out mechanism. 4,671,195, 6-9-87, Cl. 112-199.000.

Wolff, Jeffrey L.: *See*—
Longenecker, Francis S.; Moeder, Kevin J.; and Wolff, Jeffrey L., 4,711,437, Cl. 269-91.000.

Wolff, Joachim; Wolf, Karlheinz; and Marschner, Werner, to Bayer Aktiengesellschaft. Concentrated reactive dyestuff solutions containing cyanamide compound as stabilizer. 4,685,933, 8-11-87, Cl. 8-527.000.

Wolff, Joachim; Koll, Jochen; Wolf, Karlheinz; Klipper, Reinhold M.; and Lange, Peter M., to Bayer Aktiengesellschaft. Process for the preparation of concentrated solutions of anionic dyestuffs and dyestuff additives by cation exchange with cation exchange resin. 4,702,744, 10-27-87, Cl. 8-527.000.

Wolff, Joachim; and Wolf, Karlheinz, to Bayer Aktiengesellschaft. Liquid, water containing mono-fluoro-triazinyl reactive dyestuff preparation with pH 8-12. 4,711,642, 12-8-87, Cl. 8-527.000.

Wolff, Kenneth T.: *See*—
Samson, Joseph E.; Wolff, Kenneth T.; Reid, Robert; Hendrie, Gardner C.; Falkoff, Daniel M.; Dynneson, Ronald E.; Clemson, Daniel M.; and Baty, Kurt F., 4,654,857, Cl. 371-68.000.

Wolff, Klaus. Method for decreasing radiation load in PUVA therapy. 4,642,318, 2-10-87, Cl. 514-560.000.

Wolff, Kurt, to Steinhaus GmbH. Improved screen component for use in modular screening decks. 4,674,251, 6-23-87, Cl. 52-309.150.

Wolff, Leslie C. Athletic exerciser for paraplegics and quadriplegics. 4,645,205, 2-24-87, Cl. 272-143.000.

Wolff, Martin, to Gebr. Happich GmbH. Cushioning member for the interior of an automotive vehicle. 4,667,979, 5-26-87, Cl. 280-752.000.

Wolff, Merle: *See*—
Magnuson, Douglas; Wolff, Merle; Lev, Sam; Jeffries, Kenneth; and Mapes, Scott D., 4,670,214, Cl. 419-3.000.

Wolff, Michael: *See*—
Cordes, Gunter; and Wolff, Michael, 4,668,232, Cl. 604-897.000.

Wolff, Pieter, to Siemens Aktiengesellschaft. Circuit arrangement for receiving and/or transmitting serially appearing binary signals in or from a processing device containing a microcomputer or a microprocessor. 4,691,297, 9-1-87, Cl. 364-900.000.

Wolff, Pieter; and Wedler, Hartmut, to Siemens Aktiengesellschaft. Circuit arrangement for receiving and/or transmitting binary signals serially appearing on the plurality of lines to and from a processing device containing a micro-computer or microprocessor. 4,695,974, 9-22-87, Cl. 364-900.000.

Wolff, Richard H.: *See*—
Beveventano, Thomas; Rosen, Frank L.; Wolff, Richard H.; and Bendett, Raymond, 4,686,771, Cl. 33-324.000.

Wolff, Robert. Milling device. 4,648,433, 3-10-87, Cl. 144-144.5GT.

Wolff, Robert C. Method of transporting large diameter particulate matter. 4,685,840, 8-11-87, Cl. 406-47.000.

Wolff, Siegfried; Schwarze, Werner; and Grewatta, Heinz, to Degussa Aktiengesellschaft. Vulcanizable 2-sec.amino-4,6-dimercapto-s-triazine containing halogen rubber mixtures. 4,636,550, 1-13-87, Cl. 524-552.000.

Wolff, Siegfried: *See*—
Deschler, Ulrich; Panster, Peter; Kleinschmit, Peter; Wolff, Siegfried; and Tan, Ewe-Hong, 4,645,850, Cl. 556-431.000.
Deschler, Ulrich; Panster, Peter; Kleinschmit, Peter; Wolff, Siegfried; and Tan, Ewe-Hong, 4,704,428, Cl. 524-535.000.
Kerner, Dieter; Kleinschmit, Peter; Parkhouse, Alan; and Wolff, Siegfried, 4,704,414, Cl. 523-213.000.
Schwarze, Werner; Wolff, Siegfried; Remmel, Hans; and Lambertz, Horst, 4,673,741, Cl. 544-209.000.

Wolff, Thomas E.: *See*—
Arzumanidis, Gregory G.; Lee, Sam S.; Wolff, Thomas E.; and Ornellas, Linda, 4,657,883, Cl. 502-127.000.

Wolff, Ulrich: *See*—
Amann, Markus-Christian; Mahlein, Hans F.; Stegmueller, Bernhard; Thulke, Wolfgang; Winzer, Gerhard; and Wolff, Ulrich, 4,656,636, Cl. 372-50.000.

Wolff Walsrode Aktiengesellschaft: *See*—
Bandt, Hagen; and Zundorf, Heinz, 4,671,414, Cl. 206-802.000.
Hoppe, Lutz; and Reinhardt, Eugen, 4,714,723, Cl. 524-42.000.
Lange, Werner; Hohl, Frank; and Szablikowski, Klaus, 4,703,087, Cl. 525-161.000.
Luhmann, Erhard; and Hoppe, Lutz, 4,659,387, Cl. 106-195.000.
Renger, Wolfgang, 4,659,532, Cl. 264-518.000.
Schinkel, Ingo; and Bohner, Jurgen, 4,666,772, Cl. 428-330.000.
Schinkel, Ingo; and Bohner, Jurgen, 4,668,575, Cl. 428-349.000.
Schinkel, Ingo; and Bohner, Jurgen, 4,692,386, Cl. 428-515.000.

Wolff, Walter C., Jr.: *See*—
Wolff, Walter C., Sr.; and Wolff, Walter C., Jr., 4,693,027, Cl. 42-59.000.

Wolff, Walter C., Sr.; and Wolff, Walter C., Jr., to W. C. Wolff Company. Variable power flat spring for revolver-type firearms. 4,693,027, 9-15-87, Cl. 42-59.000.

Wolff, William F.; and McCollum, John D., to Standard Oil Company (Indiana). Method for treating shale. 4,668,380, 5-26-87, Cl. 208-430.000.

Wolfgang, Eckhard: *See*—
Rummel, Peter; and Wolfgang, Eckhard, 4,705,954, Cl. 250-491.100.

Wolfhard, Dietrich: *See*—
Bechem, Werner; Peters, Hubertus; Solbach, Werner; and Wolfhard, Dietrich, 4,634,504, Cl. 204-28.000.

Wolffe, Hans-Peter: *See*—
Schaible, Siegfried; Wolffe, Hans-Peter; Gusewell, Eike; and Kohl, Bernhard, 4,715,175, Cl. 56-432.000.

Wolfmuller, Karlheinz, to Deutsche Forschungs- und Versuchsanstalt fur Luft- und Raumfahrt e.V. Steam-generator control method. 4,655,392, 4-7-87, Cl. 236-15.00E.

Wolford, Gerald T.; Kleinlein, Dwight R.; and Stewart, Hubert F., to Chrysler Motors Corporation. Fastening arrangement for a convertible boot. 4,679,844, 7-14-87, Cl. 296-136.000.

Wolford, Otis, Jr. Marking guide for use with metal studs. 4,654,978, 4-7-87, Cl. 33-481.000.

Wolford, Otis, Jr.; and Wolford, Richard P. Tool for wrapping drop wires for suspended grid ceiling. 4,694,869, 9-22-87, Cl. 140-119.000.

Wolford, Richard P. Tool for crimping a corner bead piece over an exterior plasterboard corner. 4,670,957, 6-9-87, Cl. 29-243.500.

Wolford, Richard P.: *See*—
Wolford, Otis, Jr.; and Wolford, Richard P., 4,694,869, Cl. 140-119.000.

Wolford, Russel E. Device for holding playing cards and the like. 4,684,132, 8-4-87, Cl. 273-150.000.

Wolford, Troy D.: *See*—
Alderman, Daniel A.; and Wolford, Troy D., 4,678,516, Cl. 106-197.100.

Wolfram, Claude J. Method of manufacturing supports for electrical circuits. 4,712,297, 12-15-87, Cl. 29-852.000.

Wolfram, Hans, to Hoechst Aktiengesellschaft. Process for ring-chlorinating toluene. 4,647,709, 3-3-87, Cl. 570-209.000.

Wolfram, Leszek J.; and Cohen, David, to Clairol Incorporated. Hair conditioning composition containing cationic polymer and amphoteric surfactant and method for use. 4,663,158, 5-5-87, Cl. 424-70.000.

Wolfram, Leszek J.: *See*—
Chung-Bong-Chan, Alexander; and Wolfram, Leszek J., 4,695,285, Cl. 8-429.000.

Wolfram, Stephen, to Thinking Machines Corporation. Random sequence generators. 4,691,291, 9-1-87, Cl. 364-717.000.

Wolfrom, Glen W.: *See*—
Ivy, Richard E.; Wolfrom, Glen W.; and Burleigh, Bruce D., 4,670,249, Cl. 424-424.000.

Wolfrum, Gerhard: *See*—
Heidenreich, Holger; and Wolfrum, Gerhard, 4,711,954, Cl. 534-780.000.
Skjold, A. Christopher; Hugl, Herbert; and Wolfrum, Gerhard, 4,637,979, Cl. 435-19.000.

Wolfrum, Jurgen; Warnatz, Jurgen; Bruderreck, Hartmut; Gottlieb, Klaus; and Preuss, August-Wilhelm, to Veba Oel Ag. Process for the performance of chemical reaction with atomic hydrogen. 4,664,904, 5-12-87, Cl. 423-648.00R.

Wolfsgruber, Friedrich: *See*—
Bruckmann, Heinz; Wolfsgruber, Friedrich; and Weiser, Ernst A., 4,643,768, Cl. 420-578.000.

Wolfson, Elizabeth A.: *See*—
Radwanski, Fred R.; Wolfson, Elizabeth A.; and Post, James L., 4,650,127, Cl. 241-28.000.
Stgl, Wayne C.; and Wolfson, Elizabeth A., 4,638,921, Cl. 221-1.000.

Wolfson, Lawrence S.: *See*—
Pearl, David R.; and Wolfson, Lawrence S., 4,646,911, Cl. 198-689.100.

Wolfson, Ronald I.; and Sterns, William G., to ITT Corporation. Microstrip antenna with resonator feed. 4,660,047, 4-21-87, Cl. 343-700.0MS.

Wolfson, Sidney K., Jr.: *See*—
Yao, Shang J.; and Wolfson, Sidney K., Jr., 4,663,006, Cl. 204-131.000.

Wolfstieg, Ulrich M. E. A., to U.S. Philips Corporation. X-ray examination apparatus. 4,691,334, 9-1-87, Cl. 378-71.000.

Wolga, George J.: *See*—
Kitai, Adrian H.; and Wolga, George J., 4,646,079, Cl. 340-781.000.

Wolinsky, Harvey. Method and apparatus for removing arterial constriction. 4,636,195, 1-13-87, Cl. 604-53.000.

Wolk, Gary L.: *See*—
Fisanick, Georgia J.; Gross, Michal E.; and Wolk, Gary L., 4,636,403, Cl. 427-53.100.

Wolk, Petra: *See*—
Grutte, Friedrich-Karl; Petzold, Heinrich; Walter, Ulrich; Bogs, Gunhild; Domeratzky, Joachim; Gartner, Helmut; Schulze, Jurgen; Zunft, Hans-Joachim; Pulz, Otto; Luft, Christa; Muller, Walheide; Wolk, Petra; Dahlke, Hannelore; and Volkmer, Margret, 4,692,340, Cl. 426-72.000.

Wolk, Piero. Well logging electroaics cooling system. 4,671,349, 6-9-87, Cl. 165-47.000.

Wolken, Jerome J. Light concentrating lens system. 4,669,832, 6-2-87, Cl. 350-413.000.

Wollar, Burnell, to Phillips Plastics Corporation. Plastic fastener for detachably mounting a panel on a support member. 4,648,766, 3-10-87, Cl. 411-41.000.

Wollar, Burnell, to Phillips Plastics Corporation. Tool for installing expandable fastener. 4,709,841, 12-1-87, Cl. 227-55.000.

Wollar, Burnell: *See*—
Schwind, Richard J.; Bart, Joseph; and Wollar, Burnell, 4,674,931, Cl. 411-175.000.

Wollar, Burnell J., to Phillips Plastics Corporation. Self-sealing expansion rivet assembly. 4,639,175, 1-27-87, Cl. 411-38.000.

Wolleben, Wolfgang: *See*—
Puhler, Alfred; Wolleben, Wolfgang; and Leineweber, Michael, 4,673,642, Cl. 435-91.000.

Wollenberg, Robert H., to Chevron Research Company. Modified succinimides (II). 4,645,515, 2-24-87, Cl. 44-63.000.

Wollenberg, Robert H., to Chevron Research Company. Lubricating oil compositions containing modified succinimides (VII). 4,663,062, 5-5-87, Cl. 252-47.500.

Wollenberg, Robert H., to Chevron Research Company. Modified succinimides (VII). 4,666,459, 5-19-87, Cl. 44-56.000.

Wollenberg, Robert H., to Chevron Research Company. Modified succinimides (III). 4,666,460, 5-19-87, Cl. 44-63.000.

Wollenberg, Robert H., to Chevron Research Company. Modified succinimides (IV). 4,668,246, 5-26-87, Cl. 44-63.000.

Wollenberg, Robert H., to Chevron Research Company. Modified succinimides (VIII). 4,670,170, 6-2-87, Cl. 252-47.500.

Wollenberg, Robert H., to Chevron Research Company. Dispersant additives for lubricating oils and fuels. 4,702,851, 10-27-87, Cl. 252-49.600.

Wollenberg, Robert H., to Chevron Research Company. Carbonate treated hydrocarbyl-substituted amides. 4,713,188, 12-15-87, Cl. 252-51.50A.

Wollenberg, Robert H.: *See*—
Buckley, Thomas F., III; and Wollenberg, Robert H., 4,647,390, Cl. 252-51.50A.
Buckley, Thomas F., III; and Wollenberg, Robert H., 4,648,988, Cl. 44-63.000.
Buckley, Thomas F., III; and Wollenberg, Robert H., 4,713,187, Cl. 252-49.600.
Plavac, Frank; and Wollenberg, Robert H., 4,680,129, Cl. 252-51.50A.

Wollenhaupt, Jakob, to Letzel, Helmut. Safety interlock switching device for protecting equipment. 4,659,884, 4-21-87, Cl. 200-50.08.

Woller, Burnell J.; and Danko, Arthur J., to Phillips Plastics Corporation. Anchor nut for threaded member. 4,657,458, 4-14-87, Cl. 411-182.000.

Wollet, William M., to GTE Communication Systems Corporation. Coin receiving mechanism having a slideable door to prevent coin insertion after stuffing. 4,660,706, 4-28-87, Cl. 194-351.000.

Wollman, Jack, to Bulova Watch Co., Inc. Watch case and bracelet assembly. 4,664,533, 5-12-87, Cl. 368-282.000.

Wollmann, Gerhard: *See*—
Jeromin, Lutz; Peukert, Eberhard; and Wollmann, Gerhard, 4,698,186, Cl. 260-421.000.

Wollmer, Hans-Georg: *See*—
Anthonsen, Reiner; Sack, Wieland; Trentmann, Heinz; and Wollmer, Hans-Georg, 4,645,736, Cl. 430-538.000.

Wollscheid, Dieter: *See*—
Ninnemann, Peter; and Wollscheid, Dieter, 4,648,068, Cl. 364-900.000.

Wollweber, Karen: *See*—
Grosch, Josephine; Wilson, Gary A.; Wollweber, Karen; and Yehle, Clifford O., 4,673,638, Cl. 435-34.000.

Wolmarans, Johann R. Hitch assembly. 4,640,523, 2-3-87, Cl. 280-491.00D.

Wolner, J. Thomas, to D B Industries, Inc. Inertia rope grab. 4,657,110, 4-14-87, Cl. 182-5.000.

Wolniak, Robert T. Shot reel. 4,664,173, 5-12-87, Cl. 164-312.000.

Wolniak, Stanley C.; Laabs, Timothy P.; and Schulz, Richard H., Jr., to Eastern Company, The. Anti-static switch lock with momentary position. 4,633,689, 1-6-87, Cl. 70-379.00R.

Wolniak, Stanley C.; and Laabs, Timothy P., to Eastern Company, The. Switch lock with two momentary positions. 4,669,977, 9-1-87, Cl. 70-379.00R.

Wolo Manufacturing Corporation: *See*—
Solow, Joseph E., 4,658,613, Cl. 70-427.000.
Solow, Joseph E., 4,712,639, Cl. 180-287.000.

Wolowski, Eckard; and Mirtsch, Frank, to Ruhrkohle Aktiengesellschaft. Integrated gas-phase hydrogenation process using heat recovered from sump-phase hydrogenation for temperature regulation. 4,636,300, 1-13-87, Cl. 208-400.000.

Wolowski, Eckard; and Dohms, Klaus-Dieter, to Ruhrkohle Aktiengesellschaft. Process for producing a diesel fuel from medium heavy oil obtained from coal. 4,675,102, 6-23-87, Cl. 208-400.000.

Wolowski, Eckard; Mirtsch, Frank; and Dybus, Herbert, to Ruhrkohle Aktiengesellschaft. Method and apparatus for multiphase coal hydrogenation reactors with exothermal heat of reaction having gas cooling in sump-phase reactors. 4,696,735, 9-29-87, Cl. 208-408.000.

Wolowski, Eckard: *See*—
Dohler, Werner; Merz, Ludwig; Frohnert, Heinz; Uckermann, Bernd; Graeser, Ulrich; Jankowski, Alfons; Wolowski, Eckard; Tamm, Hans-Friedrich; and Wilczok, Norbert, 4,639,310, Cl. 208-412.000.

Wolpers, Jurgen: *See*—
Nordsiek, Karl-Heinz; Wolpers, Jurgen; and Tornau, Johann, 4,673,709, Cl. 525-99.000.

Wolpert, George H., Jr., to McKesson Corporation. Modified geriatric chair. 4,685,726, 8-11-87, Cl. 297-150.000.

Wolpert, Melvin J., III: *See*—
Callaghan, Vincent M.; and Wolpert, Melvin J., III, 4,678,621, Cl. 376-245.000.

Wolsey, Clarence K. Stretcher bars. 4,637,147, 1-20-87, Cl. 38-102.00.

Wolsiefer, Harald: *See*—
Cremer, Heinz P.; Wolsiefer, Harald; Hoffmann, Manfred; Dingener, Elmar; and Franzmann, Gunter, 4,713,986, Cl. 74-805.00.

Wolske, James P. Meniscus position detector with detector at the focal plane of the lens formed by tube and liquid. 4,654,535, 3-31-87, Cl. 250-577.000.

Wolski, Frank. Method for mounting shrimp. 4,709,498, 12-1-87, Cl. 43-4.000.

Wolstein, Friedrich, to Uhde GmbH. Process for reducing the NO content in waste gases. 4,656,014, 4-7-87, Cl. 423-235.000.

Wolter, Albrecht; and Herchenbach, Horst, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method for the desulfurization of flue gas of a firing system. 4,634,583, 1-6-87, Cl. 423-244.000.

Wolter, Albrecht; Hartmann, Rolf; Herchenbach, Horst; and Grosse-Alexander, to Klockner-Humboldt-Deutz Aktiengesellschaft; and Dyckerhoff Engineering GmbH. Method and apparatus for burning combustible waste materials. 4,640,203, 2-3-87, Cl. 110-346.000.

Wolter, Albrecht: *See*—
Steinbiss, Eberhard; Herchenbach, Horst; and Wolter, Albrecht, 4,640,681, Cl. 432-14.000.

Wolter, Andreas: *See*—
Mesmer, Otto; Polligkeit, Wolfgang; Schiffer, Ernst-Uwe; Troger, Wolfgang; and Wolter, Andreas, 4,655,952, Cl. 252-88.000.

Wolter, Dietmar. Osteosynthesis plate for pressure stabilization. 4,705,031, 11-10-87, Cl. 128-92.0YP.

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Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., 4,634,717, Cl. 514-425.000.
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Morin, Fernand R., 4,714,136, Cl. 182-107.000.

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Kellis, Warren O.; King, Daniel; and Rice, Lyle, 4,669,238, Cl. 52-105.000.

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Bamch, Howard P.; and Norton, Daniel E., 4,694,591, Cl. 36-102.000.
Schram, Harlan L.; and O'Neil, Gerald L., 4,706,335, Cl. 17-23.000.

Wolvers, Wilhelmus P.: *See*—
Mutsers, Stanislaus M. P.; Willems, Michael H.; and Wolvers, Wilhelmus P., 4,675,440, Cl. 562-494.000.

Wolyn, Joseph: *See*—
Wright, Steven F.; Stenstrom, Eric J.; and Wolyn, Joseph, 4,633,584, Cl. 29-834.000.

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Pellet, Regis J.; Best, Donald F.; Long, Gary N.; Rabo, Jule A.; and Wolynic, Edward T., 4,687,754, Cl. 502-65.000.

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Thomas, John H.; Duncan, Don P.; Lake, Michael A.; and Womack, Gary B., 4,643,848, Cl. 260-104.000.

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Bludung, Otto; and Schwenke, Dieter, 4,650,453, Cl. 493-239.000.
Fabrig, Paul, 4,662,816, Cl. 414-786.000.
Kwasnitza, Hans D., 4,702,135, Cl. 83-278.000.

Womble, David P.: *See*—
Mobley, Joseph G.; and Womble, David P., 4,698,598, Cl. 329-134.000.

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Womrold, Harry A. E., to Packaging Resources Inc. Container and plastic closure therefor. 4,702,387, 10-27-87, Cl. 220-270.000.

Won, Duk S. Assembled wig or wig kit. 4,658,841, 4-21-87, Cl. 132-53.000.

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Wondergem, Anthony L., to Development Finance Corporation. Pressure regulator. 4,695,101, 9-22-87, Cl. 303-117.000.

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Wondergem, Willem, to U.S. Philips Corporation. Beam exposure apparatus comprising a diaphragm drive for an object carrier. 4,661,968, 4-28-87, Cl. 378-79.000.

Wonderline, Inc.: *See*—
Pagano, Robert J., 4,693,697, Cl. 446-272.000.

Wondrak, Thomas, to Schilling Mess und Regeltechnik Industrievertretungen. Method and apparatus for data transmission between a transmission and a receiver disposed in a drill hole and a transmitter and a receiver disposed above ground. 4,689,620, 8-25-87, Cl. 340-856.000.

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Crombie, Terence G.; and Wong, Bernard K., 4,672,888, Cl. 98-29.000.

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Wong, Raymond, 4,713,039, Cl. 446-233.000.

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Wong, Caine W.: *See*—
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Wong, Daniel T.; and Wong, Tai-Kin. High-voltage biological macromolecule transfer and cell fusion system. 4,663,292, 5-5-87, Cl. 435-287.000.

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Wong, David Y.: *See*—
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Wong, Don M. Automatic cooking apparatus. 4,649,810, 3-17-87, Cl. 99-326.000.

Wong, Frederick: *See*—
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Wong, Geoffrey B.; and Lopez, Arthur W., Jr., to Raychem Corp. Materials for use in forming electronic interconnect. 4,655,382, 4-7-87, Cl. 228-56.300.

Wong, Gordon G.: *See*—
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Wong, Henry S. L.: *See*—
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Wong, Hoi W.; and Chai, Hung Y., to Luks Industrial Company Ltd. High security subscription television transmission system. 4,679,078, 7-7-87, Cl. 380-15.000.

Wong, Jacob Y.; Khuri-Yakub, Pierre; Motamedi, M. Ed; and Wong, Marcus Y., to Adamtek Corporation; and Hibshman Corporation, a part interest. Rheological testing apparatus and method. 4,691,714, 9-8-87, Cl. 128-738.000.

Wong, Jacob Y., to Hibshman Corporation. Nondispersive gas analyzer having no moving parts. 4,694,173, 9-15-87, Cl. 250-343.000.

Wong, James, to Supercon, Inc. Tantalum capacitor lead wire. 4,646,197, 2-24-87, Cl. 361-307.000.

Wong, James, to Supercon, Inc. Tantalum capacitor lead wire. 4,674,009, 6-16-87, Cl. 361-433.000.

Wong, Jeffrey T., to Fisons plc. Hemoglobin compounds. 4,650,786, 3-17-87, Cl. 514-6.000.

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Wong, Jesse K.: *See*—
Villani, Frank J.; and Wong, Jesse K., 4,659,716, Cl. 514-290.000.

Wong, John K. Y.; and Wong, Simon K. Y., to Lumen Electronics Corporation. Movable gauge housing. 4,638,666, 1-27-87, Cl. 73-431.000.

Wong, John M., to Envirodyne, Inc. Wastewater treatment bacterial additive. 4,673,505, 6-16-87, Cl. 210-611.000.

Wong, Joseph S., to General Dynamics, Pomona Division. Stripline tapped-line hairpin filter. 4,701,727, 10-20-87, Cl. 333-204.000.

Wong, Jun G., to Skil Corporation. Reversing switch for rechargeable hand tool. 4,678,871, 7-7-87, Cl. 200-1.00V.

Wong, Kwee C., to Great Lakes Chemical Corporation. Method for etching copper and composition useful therein. 4,636,282, 1-13-87, Cl. 156-659.100.

Wong, Lam F., to Xerox Corporation. Four point support for copiers and the like. 4,637,581, 1-20-87, Cl. 248-188.300.

Wong, Leo K.; and Wong, Philip S. Dot matrix method of entering and transmitting script. 4,654,479, 3-31-87, Cl. 178-18.000.

Wong, Man J. Water distiller. 4,687,550, 8-18-87, Cl. 202-165.000.

Wong, Marcus Y.: *See*—
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Wong, Ming K.: *See*—
Redman, Michael J.; Wong, Ming K.; and Sugden, Peter R., 4,691,339, Cl. 379-62.000.

Wong, Mon N.; and Steele, Jeffrey D., to Hughes Aircraft Company. Broadband waveguide phase shifter. 4,654,611, 3-31-87, Cl. 333-157.000.

Wong, Mon N.; and Linhardt, Wilbur J., to Hughes Aircraft Company. Phase compensated hybrid coupler. 4,688,006, 8-18-87, Cl. 333-113.000.

Wong, Mon N.; and Peebles, Ann L., to Hughes Aircraft Company. Waveguide switch with variable short wall coupling. 4,691,177, 9-1-87, Cl. 333-113.000.

Wong, Mon N. Apparatus for the retention of fluid flowing from a container. 4,709,826, 12-1-87, Cl. 220-1.00C.

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Chang, Donald C. D.; and Wong, Mon N., 4,686,493, Cl. 333-113.000.

Wong, Morton M.; and Shugarman, Arnold L., to Union Oil Co. of California; Mono Power Co.; and Southern Pacific Land Co. Process for reducing the concentration of heavy metals in geothermal brine sludge. 4,710,367, 12-1-87, Cl. 423-335.000.

Wong, Nam S.: *See*—
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Wong, Patrick S. L.; and Theeuwes, Felix, to ALZA Corporation. Colon delivery system. 4,693,895, 9-15-87, Cl. 424-473.000.

Wong, Patrick S. L.; and Theeuwes, Felix, to ALZA Corporation. Dosage form for administering drug of the colon. 4,705,515, 11-10-87, Cl. 604-892.000.

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Hamel, L. G.; Landrau, Felix A.; Wong, Patrick S. L.; and Guittard, George V., 4,662,880, Cl. 604-892.000.

Wong, Philip: *See*—
Roger, Stephen J.; Bryant, John D.; and Wong, Philip, 4,636,633, Cl. 250-223.00R.

Wong, Philip S.: *See*—
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Wong, Pui K., to Shell Oil Company. Olefinic benzocyclobutene polymers. 4,667,004, 5-19-87, Cl. 526-284.000.

Wong, Pui K., to Shell Oil Company. Crystalline alphamonoolefin copolymers. 4,667,005, 5-19-87, Cl. 526-284.000.

Wong, Pui K., to Shell Oil Company. Hydrogenated block copolymers. 4,687,815, 8-18-87, Cl. 525-271.000.

Wong, Pui K., to Shell Oil Company. Reactive styrene polymers. 4,698,394, 10-6-87, Cl. 525-289.000.

Wong, Pui K.; and Handlin, Dale L., Jr., to Shell Oil Company. Anionic polymerization process. 4,708,990, 11-24-87, Cl. 525-250.000.

Wong, Pui K., to Shell Oil Company. Engineering thermoplastics containing pendant benzocyclobutene groups. 4,708,994, 11-24-87, Cl. 525-392.000.

Wong, Raymond, to Wong & Bibaoco. Gyroscopic toy. 4,713,039, 12-15-87, Cl. 446-233.000.

Wong, Raymond W.: *See*—
Hair, Michael L.; Lok, Kar P.; Ober, Christopher K.; Croucher, Melvin D.; and Wong, Raymond W., 4,680,332, Cl. 524-377.000.

Wong, Rosie B.: *See*—
Schenkel, Robert H.; Thammana, Pallaiah; and Wong, Rosie B., 4,650,676, Cl. 424-88.000.
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Hartmann, Robert F.; Chan, Yiu-Fai; Frankovich, Robert J.; Ou, Jung-Hsing; So, Hock C.; and Wong, Sau-Ching, 4,713,792, Cl. 364-900.000.

Wong, Show-Chu; Deol, Harbans S.; and Harz, Debra L., to Fisher Scientific Company. Stabilizing blood cells with aromatic polyaldehyde for use in hematology controls and calibrators. 4,698,312, 10-6-87, Cl. 436-10.000.

Wong, Sie-Ting, to Abbott Laboratories. Determination of alkali metals. 4,639,424, 1-27-87, Cl. 436-74.000.

Wong, Sik-Lam, to Physics International Company. Generation of stable linear plasmas. 4,663,567, 5-5-87, Cl. 315-111.210.

Wong, Simon K. Y.: *See*—
Wong, John K. Y.; and Wong, Simon K. Y., 4,638,666, Cl. 73-431.000.

Wong, Sing Y., to Monolithic Memories, Inc. Current source which saves power in programmable logic array circuitry. 4,645,952, 2-24-87, Cl. 307-466.000.

Wong, Sing Y.; and Chen, Johnny, to Monolithic Memories, Inc. Multiple programmable initialize words in a programmable read only memory. 4,646,269, 2-24-87, Cl. 365-230.000.

Wong, Sing Y.: *See*—
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Wong, Stephen S.: *See*—
Borghard, William S.; Huang, Tracy J.; McCullen, Sharon B.; Schoennagel, Hans J.; Tsao, Ying-Yen P.; and Wong, Stephen S., 4,657,874, Cl. 502-35.000.
Jorgensen, Diane V.; Kennedy, Clinton R.; and Wong, Stephen S., 4,714,537, Cl. 208-111.000.
Krishnamurthy, Sowmithri; Le, Quang N.; and Wong, Stephen S., 4,650,780, Cl. 502-50.000.
Le, Quang N.; Tsao, Ying-Yen P.; and Wong, Stephen S., 4,678,764, Cl. 502-26.000.
McCullen, Sharon B.; Wong, Stephen S.; and Huang, Tracy J., 4,645,751, Cl. 502-37.000.

Wong, Tai-Kin: *See*—
Wong, Daniel T.; and Wong, Tai-Kin, 4,663,292, Cl. 435-287.000.

Wong, Tak-Yiu, to Imo Delaval Inc. Self-contained connectors for standard tubes. 4,699,403, 10-13-87, Cl. 285-233.000.

Wong, Theodore M.: *See*—
Carroll, John O.; Boyce, Columbus O. L.; Wong, Theodore M.; and Starace, Charles A., 4,654,216, Cl. 426-20.000.

Wong, Theodore T. S.: *See*—
Devaney, Christopher M.; Martineau, Robert J.; Miles, John L.; and Wong, Theodore T. S., 4,634,493, Cl. 156-616.00R.

Wong, Thomas: *See*—
Kendall, Robert M.; Schreiber, Richard J.; Minden, Andrew C.; and Wong, Thomas, 4,664,620, Cl. 431-328.000.
Krill, Wayne V.; Taylor, Richard P.; and Wong, Thomas, 4,688,335, Cl. 34-41.000.

Wong, Thomas H.: *See*—
Hsu, Mei; and Wong, Thomas H., 4,647,799, Cl. 307-455.000.

Wong, Thomas S., to Advanced Micro Devices, Inc. Reference-voltage source for replicating a terminal voltage of a saturated transistor. 4,686,452, 8-11-87, Cl. 323-314.000.

Wong, Wai C., to Eastman Kodak Company. Shutter release and film advance interlock mechanism. 4,710,006, 12-1-87, Cl. 354-204.000.

Wong, Wai C., to W. Haking Enterprises Limited. Automatic focusing mechanism for camera. 4,710,013, 12-1-87, Cl. 354-419.000.

Wong, Wai-Hoi, to Clayton Foundation for Research. Multiple layer positron emission tomography camera. 4,647,779, 3-3-87, Cl. 250-363.00R.

Wong, Wai-Hoi, to Clayton Foundation for Research. Multiple layer positron emission tomography camera. 4,677,299, 6-30-87, Cl. 250-363.00S.

Wong, Wayne K.: *See*—
Durston, Thomas W.; Fleitz, George D.; Coffelt, Steven R.; Eckman, James D.; Wong, Wayne K.; and Chavannes, Theodore E., 4,707,848, Cl. 379-1.000.

Wong, Wilbur. Personal binocular support. 4,637,536, 1-20-87, Cl. 224-262.000.

Wonn, Quinby E., to General Motors Corporation. Torque converter slipping clutch and control. 4,643,283, 2-17-87, Cl. 192-3.330.

Woo, Chi G. Heating apparatus. 4,700,686, 10-20-87, Cl. 126-113.000.

Woo, Chi Goo. Collapsible hammock. 4,691,394, 9-8-87, Cl. 5-120.000.

Woo, Edmund P.; and Price, Diana R., to Dow Chemical Company, The. Preparation of N-substituted imidazolidinones and N-substituted 2-thioimidazolidinones. 4,642,351, 2-10-87, Cl. 548-317.000.

Woo, Edmund P.; and Laux, Joseph J., to Dow Chemical Company, The. Preparation of pyrethroid precursors. 4,667,050, 5-19-87, Cl. 558-366.000.

Woo, Edmund P.; and Murray, Daniel J., to Dow Chemical Company, The. Polyaromatic cyanate. 4,713,442, 12-15-87, Cl. 528-422.000.

Woo, Edmund P.: *See*—
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Woo, Jae L.: *See*—
Farah, Boshra D.; and Woo, Jae L., 4,648,054, Cl. 364-552.000.

Woo, James, to Tektronix, Inc. Wideband amplifier with active high-frequency compensation. 4,703,285, 10-27-87, Cl. 330-260.000.

Woo, Kenneth; and Mamak, Z., to Board of Governors of Ryerson Polytechnical Institute, The. Security device for electronic equipment. 4,696,449, 9-29-87, Cl. 248-553.000.

Woo Kyong Industrial Co., Ltd.: *See*—
Ryu, Hoe K., 4,666,328, Cl. 403-92.000.

Woo, Nea Yea: *See*—
Muka, Edward; and Woo, Nea Yea, 4,672,192, Cl. 250-205.000.

Woo, Ricky A., to Procter & Gamble Company, The. Toothpaste compositions. 4,701,319, 10-20-87, Cl. 424-52.000.

Woo, Savio L. C.: *See*—
Slavkin, Harold C.; Snead, Malcolm L.; Woo, Savio L. C.; and Zeichner-David, Margarita, 4,672,032, Cl. 435-68.000.

Wood, Brian J., to Tektronix, Inc. Modularized electronic instrument packaging system. 4,700,275, 10-13-87, Cl. 361-393.000.

Wood, Charles F., to Indal Technologies Inc. Wind turbines, improved gear box assemblies, and a braking system adaptable for use with such wind turbines and improved gear box assembly. 4,659,284, 4-21-87, Cl. 416-36.000.

Wood, Charles F., to Indal Technologies Inc. Vertical axis wind turbine and components therefor. 4,664,596, 5-12-87, Cl. 416-32.000.

Wood, Charles F. Mounting for a wheelchair service tray. 4,679,756, 7-14-87, Cl. 248-285.000.

Wood, Charles H., to Fusion Systems Corporation. Electrodeless discharge lamp. 4,652,790, 3-24-87, Cl. 313-112.000.

Wood, Charles H.; and Stowe, Richard W., to Fusion Systems Corporation. Probe for collecting light for a radiation monitoring device. 4,703,173, 10-27-87, Cl. 250-227.000.

Wood, Charles H., to Fusion Systems Corporation. Apparatus for treating coatings. 4,710,638, 12-1-87, Cl. 250-492.100.

Wood, Charles H.: *See*—
Ury, Michael G.; and Wood, Charles H., 4,695,757, Cl. 313-44.000.

Wood, Charles L., to Ball Corporation. Glass machine controller. 4,679,148, 7-7-87, Cl. 364-473.000.

Wood, Chester W., to Dover Corporation. Nozzle construction and method of making the same. 4,682,714, 7-28-87, Cl. 222-153.000.

Wood, Christopher J.; Bradbury, David; Swan, Timothy; Segal, Michael G.; and Sellers, Robin M., to Electric Power Research Institute, Inc. Descaling process. 4,705,573, 11-10-87, Cl. 134-3.000.

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Wood, Colin: *See*—
Shapter, Hugh; and Wood, Colin, 4,691,206, Cl. 343-700.0MS.

Wood, David E., to Covalent Technology Corporation. Solid phase biological diagnostic assay via visual observation as enhanced by Mie scattering. 4,716,123, 12-29-87, Cl. 436-533.000.

Wood, David W., to Advance Machine Company. Floor polishing machine. 4,658,459, 4-21-87, Cl. 15-49.00R.

Wood, Dennis R.: *See*—
Smith, Lonnie J.; Petermann, Steven G.; and Wood, Dennis R., 4,706,744, Cl. 166-65.100.

Wood, Derek A.; and Mason, Ronald F., to Shell Oil Company. N-benzyl,3-hydroxymethyl and 3-alkanoyloxymethyl azetidine derivatives. 4,634,554, 1-6-87, Cl. 548-950.00A.

Wood, Derek A.; and Briner, Paul H., to Shell Oil Company. Preparation of 1-benzylazetidine-3-ol derivatives. 4,639,334, 1-27-87, Cl. 548-952.000.

Wood, Donald C.; and Wood, James D. Seeding process and apparatus. 4,694,606, 9-22-87, Cl. 47-56.000.

Wood, Donald L.; and Kravetz, Louis, to Shell Oil Company. Process for newspaper deinking using low-foaming surfactant deinking agent. 4,666,558, 5-19-87, Cl. 162-5.000.

Wood, Edward F. Prefabricated insulating panels. 4,641,469, 2-10-87, Cl. 52-309.120.

Wood, Edward T., to CTC Corporation. Method for cementing casing or liners in an oil well. 4,655,286, 4-7-87, Cl. 166-285.000.

Wood, Eric, to Insituform Holdings Limited. Lining of pipelines and passageways. 4,637,754, 1-20-87, Cl. 405-150.000.

Wood, Eric, to Insituform Group Limited. Apparatus for inspecting the interior of a pipeline. 4,677,472, 6-30-87, Cl. 358-100.000.

Wood, Eric, to Insituform Group Limited. Lining of pipelines or passageways. 4,680,066, 7-14-87, Cl. 156-156.000.

Wood, Eric, to Insituform International N.V. Relating to cutters. 4,701,988, 10-27-87, Cl. 29-33.00T.

Wood, F. Dianne: *See*—
Babcock, Robert E.; Beaver, W. Hardey; and Wood, F. Dianne, 4,673,484, Cl. 208-435.000.

Wood, Gary J. Beach locker. 4,664,041, 5-12-87, Cl. 109-51.000.

Wood, Geoffrey B.: *See*—
Irvine, Sheila M.; Penman, Alistair; and Wood, Geoffrey B., 4,692,338, Cl. 426-2.000.

Wood, George A., to Charles Stark Draper Laboratory, Inc., The. Automated system for sequentially loading lowermost segments from a shingled stack of limp material segments. 4,638,749, 1-27-87, Cl. 112-121.120.

Wood, George E.: *See*—
McVey, George R.; Tornberg, Kenneth W.; Widell, Larry R.; and Wood, George E., 4,704,160, Cl. 71-92.000.

Wood, George N.; and Spector, George. Slip stick. 4,685,215, 8-11-87, Cl. 33-161.000.

Wood, Glenn P.: *See*—
Holland, David B.; and Wood, Glenn P., 4,656,106, Cl. 430-2.000.

Wood, Godfrey A.: *See*—
Arthur, Hugh M.; Mills, John A.; and Wood, Godfrey A., 4,665,930, Cl. 131-281.000.

Wood, Grady M., to Harris Corporation. Single input/multiple output logic interface circuit having minimized voltage swing. 4,675,552, 6-23-87, Cl. 307-454.000.

Wood, H. Larry, to Blacknon Mooring Steamatic Catastrophe, Inc. Duct cleaner. 4,656,685, 4-14-87, Cl. 15-104.160.

Wood, Harry: *See*—
Pilney, Andy; and Wood, Harry, 4,699,164, Cl. 135-16.000.

Wood, Henry S.; and Davenport, John L. Electrical insulating bushing with a weather-resistant sheath. 4,670,625, 6-2-87, Cl. 174-142.000.

Wood, James D.: *See*—
Wood, Donald C.; and Wood, James D., 4,694,606, Cl. 47-56.000.

Wood, James L.; Grupido, Nicola J.; Hart, Keith L.; and Keem, John E., to Ovonic Synthetic Materials Company, Inc. Multiple wavelength X-ray dispersive devices and method of making the devices. 4,675,889, 6-23-87, Cl. 378-84.000.

Wood, James L.: *See*—
Keem, John E.; Ovshinsky, Stanford R.; Flessa, Steven A.; Wood, James L.; Hart, Keith L.; and Sztaba, Lennard, 4,693,933, Cl. 428-333.000.

Wood, James Q., to Phillips Petroleum Company. Filter bag preparation. 4,696,685, 9-29-87, Cl. 55-97.000.

Wood, James R., to World Color Press, Inc. Machine for handling signatures. 4,641,489, 2-10-87, Cl. 53-529.000.

Wood, John: *See*—
Little, John D.; Little, Lorianne C.; and Wood, John, 4,708,893, Cl. 428-26.000.

Wood, John C.: *See*—
Cox, Allen R.; Lowe, Anthony C.; and Wood, John C., 4,684,219, Cl. 350-343.000.

Wood, John D.; Coles, Julian M.; and Baxter, William R. S., to Boutade Worldwide Investments NV. Inhaler device. 4,676,237, 6-30-87, Cl. 128-203.170.

Wood, John F. B., to Hazelett Strip-Casting Corporation. Systems for shaping the casting region in a twin-belt continuous casting machine for improving heat transfer and product uniformity and enhanced machine performance. 4,671,341, 6-9-87, Cl. 164-432.000.

Wood, John F. B.; Kaiser, Timothy D.; Allyn, Jerome B.; Dykes, Charles D.; Kalaskie, Frank E.; Carmichael, Robert J.; and Simon, Charles R., to Hazelett Strip-Casting Corporation. Edge dam synchronization and tensioning control method and system for the shaping and profiling of continuously cast metal sections by means of a continuous casting machine. 4,694,899, 9-22-87, Cl. 164-452.000.

Wood, John M. Golf swing training device. 4,682,775, 7-28-87, Cl. 273-186.00A.

Wood, John W. M.; and Hack, Richard C., to Marley Tile AG. Lightweight concrete roof tiles. 4,673,659, 6-16-87, Cl. 106-98.000.

Wood, Kenneth G. Combined pressurized air solar heat sensing head assembly and a pressurized water drive system used to move solar energy collectors in tracking the sun. 4,646,718, 3-3-87, Cl. 126-424.000.

Wood, Kenneth M. Threaded tubing seals. 4,643,467, 2-17-87, Cl. 285-334.000.

Wood, Kenneth M.; and Jarveaux, Frank, to Petro-Tube, Inc. Stabbing guide. 4,697,830, 10-6-87, Cl. 285-27.000.

Wood, Kenneth O., to Gerber Scientific Products, Inc. Coded web and associated web handling and working machine. 4,708,901, 11-24-87, Cl. 428-131.000.

Wood, Kenneth O.: *See*—
Logan, David J.; Wood, Kenneth O.; Hernandez, William; and Edwards, Richard L., 4,711,035, Cl. 33-200.000.

Wood, Kenneth W.: *See*—
McCanny, John V.; McWhirter, John G.; and Wood, Kenneth W., 4,686,645, Cl. 364-754.000.
McCanny, John V.; McWhirter, John G.; and Wood, Kenneth W., 4,701,876, Cl. 364-728.000.

Wood, Lawson A. Analog/digital converter using remainder signals. 4,684,924, 8-4-87, Cl. 340-347.0AD.

Wood, Leigh E.; Miller, John A.; and Sipinen, Alan J., to Minnesota Mining and Manufacturing Company. Diaper having improved reinforced area for receiving adhesive fastening tape. 4,710,190, 12-1-87, Cl. 604-389.000.

Wood, Leigh E.: *See*—
Bany, Stephen W.; and Wood, Leigh E., 4,677,137, Cl. 522-31.000.

Wood, Lindley S., Jr.: *See*—
Chakrabarti, Paritosh M.; Desai, Sureshchandra G.; and Wood, Lindley S., Jr., 4,694,104, Cl. 564-285.000.

Wood, Louis L.; and Calton, Gary J., to Purification Engineering, Inc. Immobilizing microbial cells with polyfunctional aziridines. 4,650,755, 3-17-87, Cl. 435-43.000.

Wood, Louis L.; and Carlton, Gary J., to Purification Engineering, Inc. Process for preparing phenylalanine. 4,710,467, 12-1-87, Cl. 435-108.000.

Wood Manufacturing Co., Inc.: *See*—
Stone, Wayne B., Jr., 4,638,929, Cl. 222-456.000.
Stone, Wayne B., Jr., 4,713,253, Cl. 426-433.000.
Stone, Wayne B., Jr., 4,714,180, Cl. 222-456.000.

Wood, Marcus B.; and Owen, Richard K. Combination envelope and display device. 4,640,030, 2-3-87, Cl. 40-158.00R.

Wood, Michael D. Crimping and cutting tool. 4,637,084, 1-20-87, Cl. 7-134.000.

Wood, Michael W. Method for playing a card game. 4,651,997, 3-24-87, Cl. 273-274.000.

Wood, Norman H.; Gray, Walter E.; Yemington, Charles R.; and Louis, Bill G., to Exxon Production Research Co. Method and apparatus for aligning underwater components. 4,661,017, 4-28-87, Cl. 405-169.000.

Wood, P. John; and Gray, Richard A., to Bac-Off Corporation. Motor vehicle rear light assembly. 4,651,129, 3-17-87, Cl. 340-72.000.

Wood, Palmer R., to Garrett Corporation. The Internal combustion closed rankine cycle steam engine. 4,698,974, 10-13-87, Cl. 60-673.000.

Wood, Prentice J., to Mead Corporation, The. Guide mechanism for loading cartons. 4,633,643, 1-6-87, Cl. 53-248.000.

Wood, Prentice J.; and Doerr, Erwin, to Mead Corporation, The. Carrying handle for a can carton. 4,653,688, 3-31-87, Cl. 229-52.00B.

Wood, Prentice J.: *See*—
Doerr, Erwin; and Wood, Prentice J., 4,681,252, Cl. 229-52.00B.

Wood, R. Andrew: *See*—
Foss, Norman A.; Kruse, Paul W., Jr.; and Wood, R. Andrew, 4,654,622, Cl. 338-14.000.

Wood, Richard: *See*—
Rochefort, Malcolm P.; and Wood, Richard, 4,680,155, Cl. 264-73.000.

Wood, Richard B.: *See*—
Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., 4,648,067, Cl. 364-900.000.
Repass, James T.; Ruiz, Thomas M.; Shipp, Kenneth O., Jr.; and Wood, Richard B., 4,648,071, Cl. 364-900.000.

Wood, Richard M., to United States of America, National Aeronautics and Space Administration. Device for quick changeover between wind tunnel force and pressure testing. 4,668,472, 8-25-87, Cl. 73-147.000.

Wood, Robert B.; Hung, Jen-Lih; and Jee, Norman S., to Flight Dynamics, Inc. Holographic optical display system with optimum brightness uniformity. 4,655,540, 4-7-87, Cl. 350-3.700.

Wood, Robert B., to Flight Dynamics, Inc. Head up display system. 4,667,810, 6-2-87, Cl. 350-3.700.

Wood, Robert H.: *See*—
Albert, Henry J.; and Wood, Robert H., 4,655,075, Cl. 73-32.00A.

Wood, Robert J., to Stepan Company. Self-compatibilizing phthalate-based polyester polyols. 4,644,047, 2-17-87, Cl. 528-176.000.

Wood, Robert J.: *See*—
Magnus, George; Loeb, Melvin; and Wood, Robert J., 4,644,027, Cl. 524-375.000.
Magnus, George; Loeb, Melvin; and Wood, Robert J., 4,644,049, Cl. 528-176.000.

Wood, Robert L., to Advanced Sports Corporation. Aquatic mat. 4,634,393, 1-6-87, Cl. 441-129.000.

Wood, Robert P.: *See*—
Mallow, William A.; and Wood, Robert P., 4,663,067, Cl. 252-88.000.

Wood, Ronald E.: *See*—
Sparling, Kenneth P.; Richardson, David G.; Incardona, Angelo; Wood, Ronald E.; Kikendall, Garth D.; and Bakow, Leon, 4,678,384, Cl. 411-43.000.
Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,681,499, Cl. 411-507.000.
Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,695,213, Cl. 411-506.000.
Sparling, Kenneth P.; Incardona, Angelo; Kikendall, Garth D.; Richardson, David G.; Wood, Ronald E.; and Bakow, Leon, 4,712,958, Cl. 411-506.000.

Wood, Roy F.: *See*—
Svetlik, Harvey E.; and Wood, Roy F., 4,691,740, Cl. 138-109.000.

Wood, Ruey E., to TRW Inc. Variable length tie rod assembly. 4,714,262, 12-22-87, Cl. 280-95.00R.

Wood, Ruey E., Jr., to TRW Inc. Ball joint with mechanical interlock. 4,695,182, 9-22-87, Cl. 403-140.000.

Wood, Ruey E., Jr., to TRW Inc. Joint assembly. 4,712,940, 12-15-87, Cl. 403-133.000.

Wood, Samuel F., to D.A.V.I.D. Systems, Inc. Three relay C.O. trunk interface. 4,689,816, 8-25-87, Cl. 379-382.000.

Wood, Susan: *See*—
Choyke, Wolfgang J.; Wood, Susan; Scala, Luciano C.; Zussman, Melvin P.; Doggrell, Leslie A.; and Lauer, Janet S., 4,711,822, Cl. 428-458.000.

Wood, Theodore N., Jr., to Eastern Pennsylvania Co., Inc., The. Safety cap for a pressurized cylinder. 4,648,526, 3-10-87, Cl. 220-85.00P.

Wood, Theodore N., Jr., to Eastern Pennsylvania Co., Inc., The. Safety cap for pressurized cylinders. 4,651,888, 3-24-87, Cl. 220-85.00P.

Wood, Thomas D. S.: *See*—
Millar, Colin A.; Talbott, David; Potter, David J.; and Wood, Thomas D. S., 4,667,862, Cl. 225-2.000.

Wood, Thomas J. Board game. 4,682,777, 7-28-87, Cl. 273-243.000.

Wood, Timothy A. Welders helmet. 4,646,363, 3-3-87, Cl. 2-8.000.

Wood, Timothy D.: *See*—
Marx, Emil A.; Amundsen, Bruce L.; Anderson, Curtis L.; Erichsen, Glenn A.; and Wood, Timothy D., 4,651,476, Cl. 51-410.000.

Wood, Timothy G.: *See*—
Seyferth, Dietmar; Wood, Timothy G.; and Yu, Yuan-Fu, 4,645,807, Cl. 525-474.000.

Wood, Timothy J. Deco-plex process. 4,702,942, 10-27-87, Cl. 427-259.000.

Wood, Tony J.: *See*—
Nurczyk, Mark E.; Wilson, Patrick J.; and Wood, Tony J., 4,689,801, Cl. 375-9.000.

Wood, W. Graham: *See*—
Gadow, Andre; and Wood, W. Graham, 4,645,646, Cl. 422-61.000.
Gadow, Andre; and Wood, W. Graham, 4,657,573, Cl. 436-532.000.

Wood, Walter D., to Pave Technology Co., Herpetic connector and method. 4,666,228, 5-19-87, Cl. 339-94.00A.

Wood, William E.: *See*—
Johnsen, John L.; Wood, William E.; Develetian, Jack H.; and Spring, Donald G., 4,708,282, Cl. 228-261.160.

Wood, William R.: *See*—
Winter, David C.; and Wood, William R., 4,715,449, Cl. 172-513.000.

Woodall, Bobbie L.; and Nuttall, Jerry H. Apparatus and method for seating carbon brushes in motors or the like. 4,682,446, 7-28-87, Cl. 51-281.00R.

Woodall, Jerry M.: *See*—
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Woodard, David A., to Ampro Equipment, Inc. Apparatus for cleaning of engine cylinder heads, blocks and other components. 4,665,937, 5-19-87, Cl. 51-5.00R.

Woodard, John T.; and Metevia, Virgil L., to Dow Corning Corporation. Transdermal drug delivery devices with amine-resistant silicone adhesives. 4,655,767, 4-7-87, Cl. 604-896.000.

Woodard, Kenneth E., Jr.; Dean, Robert A.; Fair, David L.; and Fritz, Julius C., Jr., to Olin Corporation. Filter press membrane electrolytic cell with diffusion bonded electrode elements and elastomeric frames. 4,695,359, 9-22-87, Cl. 204-255.000.

Woodard, Kenneth E., Jr.: *See*—
Justice, David D.; and Woodard, Kenneth E., Jr., 4,687,559, Cl. 204-59.00R.

Woodard, Naomi A.: *See*—
Wilson, Stephen T.; Woodard, Naomi A.; and Flanigen, Edith M., 4,680,808, Cl. 423-305.000.

Woodard, Peggy: *See*—
Viegas, Steven F.; Tencer, Allan F.; Woodard, Peggy; and Gunn, Sue, 4,662,364, Cl. 128-87.00R.

Woodard, Robert W.: *See*—
Clark, Danny L.; Woodard, Robert W.; and Zorn, Philip A., 4,703,731, Cl. 123-413.000.
Ruge, Paul M.; and Woodard, Robert W., 4,676,757, Cl. 440-55.00.

Woodard, Scott S., to Monsanto Company. Process for producing 1,1,2,3-tetrachloropropene. 4,650,914, 3-17-87, Cl. 570-236.000.

Woodard, Winfred L., III: *See*—
Gilman, Paul S.; Jatkar, Arun D.; Donnelly, Stephen Woodard, Winfred L., III; and Mattson, Walter E., 4,668,470, Cl. 419-32.000.

Woodburn, Robert W.: *See*—
Choate, Paul V.; and Woodburn, Robert W., 4,669,910, Cl. 42-100.000.

Woodbury, Henry H.: *See*—
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Woodbury, Howard A.: *See*—
Henderson, David; Hollowell, James A.; and Woodbury, Howard A., 4,637,313, Cl. 102-398.000.

Woodcock, Brian H.; and Duncan, Stuart S., to Pilkington P.E. Limited. Reflection holograms. 4,714,309, 12-22-87, Cl. 350-3.700.

Woodcock, Colin: *See*—
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Woodcock, Roy: *See*—
Topness, Paul C.; McGehee, Bobby L.; and Woodcock, Roy, 4,671,734, Cl. 415-69.000.

Woode, Rudolf. Bar screen. 4,660,726, 4-28-87, Cl. 209-674.000.

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Petelin, Andres N.; Sharp, Celia M.; Ury, Michael G.; and Wooden, Gene R., 4,641,033, Cl. 250-492.100.

Wooden, William G., to Heat Transfer Specialties, Inc. System for removing fumes. 4,655,194, 4-7-87, Cl. 126-299.00D.

Woodford Manufacturing Company: *See*—
Fillman, Russell L., 4,653,521, Cl. 137-1.000.
Fillman, Russell L.; and Srajer, Reinhard, 4,653,522, Cl. 137-1.00.

Woodford, Timothy; and Cherasa, John. Vented syringe. 4,690,158, 9-1-87, Cl. 128-765.000.

Woodgate, Bryan F. Anchor. 4,644,894, 2-24-87, Cl. 114-304.00.

Woodhall, Edward W. Apparatus for supporting a vehicle for sideways movement. 4,712,483, 12-15-87, Cl. 104-48.000.

Woodhead, David A.: *See*—
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Shyu, Wen B.; Woodhead, David A.; and Quigley, Vincent F., 4,698,389, Cl. 525-96.000.

Woodhead Industries, Inc.: *See*—
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Woodhead, James L., to United Kingdom Atomic Energy Authority. Preparation of dispersible cerium compound. 4,699,732, 10-13-87, Cl. 252-314.000.

Woodhead, John F., III: *See*—
Haagensen, Duane B.; Moses, Darcy C.; and Smith, Leonard S., 4,714,812, Cl. 219-10.55A.

Woodhead, Philip: *See*—
Murray, Kenelm G. D.; and Woodhead, Philip, 4,663,770, Cl. 377-28.000.

Wooding, Peter T.: *See*—
Hammond, John E.; and Wooding, Peter T., 4,646,898, Cl. 192-0.098.

Woodle, Boyd M.: *See*—
Granata, Samuel J., Jr., and Woodle, Boyd M., 4,684,582, Cl. 429-39.000.

Woodley, George M., to King Instrument Corporation. Apparatus and method for initiating a tape winding operation. 4,635,869, 1-13-87, Cl. 242-67.10R.

Woodley, George M.; and Wilson, Albert H., to King Instrument Corporation. Takeup spindle. 4,645,136, 2-24-87, Cl. 242-68.300.

Woodley, George M.; and Bakes, William S., to King Instrument Corporation. Apparatus and method for loading tape into a cassette. 4,682,742, 7-28-87, Cl. 242-56.00R.

Woodley, John P.: *See*—
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Woodley, Thomas R.: *See*—
Hale, Ronald G.; Woodley, Thomas R.; and Tornstrom, Paul K., 4,642,200, Cl. 252-400.540.

Woodley, William, and Longmire, David. Apparatus for locating and detecting pain. 4,697,599, 10-6-87, Cl. 128-774.000.

Woodman, Daniel W., Jr., to USM Corporation. Redesigned body centering mechanism. 4,633,997, 1-6-87, Cl. 198-456.000.

Woodman, Douglas E.: *See*—
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Woodman, Mary F.: *See*—
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Woodmaster Tools, Inc.: *See*—
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Woodrow, Ernest L.: Window security unit. 4,653,226, 3-31-87, Cl. 49-57.000.

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Gilvar, Martin; Woodrow, Harold E.; and Nasrah, Camille S., 4,706,465, Cl. 72-219.000.

Woodruff, Harold F.: Cable dispensing method. 4,655,432, 4-7-87, Cl. 254-134.3FT.

Woodruff, Roger W.: *See*—
Green, Kenneth E.; Johnson, Donald K.; and Woodruff, Roger W., 4,682,568, Cl. 122-235.00C.

Woodruff, William D.: *See*—
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Woods, Alan T.: *See*—
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Woods, Allan O., to Hydril Company. Borehole measurement and telemetry system. 4,646,083, 2-24-87, Cl. 340-856.000.

Woods, Alma J. Laterally stabilized bra strap. 4,638,513, 1-27-87, Cl. 2-268.000.

Woods, Andy, and Giammi, Peter T. Pressure infusion control. 4,657,160, 4-14-87, Cl. 222-94.000.

Woods, Barry J.: *See*—
Gray, Michael J.; Langdon, Ian; and Woods, Barry J., 4,661,811, Cl. 340-744.000.

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Woods, Daniel L.: *See*—
Kirkpatrick, Steven J.; Zoller, Steven A.; and Woods, Daniel L., 4,637,935, Cl. 426-443.000.

Woods, David E. Insulated cooler for beverage containers. 4,690,300, 9-1-87, Cl. 220-412.000.

Woods, David H., to Urban Transportation Development Corporation Ltd. Combined regenerative and friction braking system for a vehicle. 4,671,577, 6-9-87, Cl. 303-3.000.

Woods, David R.: *See*—
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Woods, Donald R.; and Woods, Helga S., to Rasbach, Roger. Refrigerant subcooler for air conditioning systems. 4,696,168, 9-29-87, Cl. 62-200.000.

Woods, Donna K.: *See*—
Redding, Jerry W.; Roberts, Donald L.; and Woods, Donna K., 4,643,205, Cl. 131-275.000.

Woods, Garry W., to Shopsmith, Inc. Miter gage. 4,658,686, 4-21-87, Cl. 83-425.000.

Woods, H. John; and Souhrada, Frank, to Gulf Canada Corporation. Process for improving the yield of distillables in hydrogen donor diluent cracking. 4,640,762, 2-3-87, Cl. 208-56.000.

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Woods, James A., to Harold R. Lauterbach. Gravitometer prover. 4,694,679, 9-22-87, Cl. 73-1.00R.

Woods, John; Rooney, John M.; and Bolger, Bernard J., to Loctite (Ireland) Limited. Conformal coating systems. 4,668,713, 5-26-87, Cl. 522-174.000.

Woods, John: *See*—
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Woods, John G.; and Rooney, John M., to Loctite (Ireland) Limited. Meta-bridged styryloxy resins. 4,640,849, 2-3-87, Cl. 427-54.100.

Woods, John G.; and Rooney, John M., to Loctite (Ireland) Limited. Imaging method for vapor deposited photoresists of anionically polymerizable monomer. 4,675,270, 6-23-87, Cl. 430-311.000.

Woods, John G.; and Rooney, John M., to Loctite (Ireland) Limited. Resists formed by vapor deposition of anionically polymerizable monomer. 4,675,273, 6-23-87, Cl. 430-325.000.

Woods, John G.: *See*—
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Woods, John R. G.: *See*—
Floyd, John T.; Huggett, Christopher D.; Jones, Michael A.; and Woods, John R. G., 4,672,330, Cl. 331-4.000.

Woods, John T.: *See*—
Sisk, George W.; Lynn, Shelby A.; Keil, John P.; and Woods, John T., 4,714,304, Cl. 312-214.000.
Tate, Ralph, Jr.; and Woods, John T., 4,640,432, Cl. 220-75.000.
Tate, Ralph, Jr.; and Woods, John T., 4,694,553, Cl. 29-445.000.

Woods, Lonnie K.; and Hamilton, James M., to C & K Venture Income I-Coast. Computer optimized adaptive suspension system. 4,634,142, 1-6-87, Cl. 280-707.000.

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Hamilton, James M.; Woods, Lonnie K.; and Godwin, Michael W., 4,651,838, Cl. 177-209.000.

Woods, Luther L. Heavy equipment tire rim. 4,650,257, 3-17-87, Cl. 301-97.000.

Woods, Randall L. Extracapsular cortex irrigation and extraction. 4,650,461, 3-17-87, Cl. 604-28.000.

Woods, Randall L. Intraocular lens having unitary integral haptic means. 4,681,586, 7-21-87, Cl. 623-6.000.

Woods, Theodore E.; Cole, Jimmy R.; and Burcham, James T., to Syntron, Inc. Depth controller for marine seismic cable. 4,709,355, 11-24-87, Cl. 367-16.000.

Woods, Timothy N.; and Frye, Richard D., to Garland, Robert F.; and Woods, Timothy N. Arch door marking gauge. 4,685,216, 8-11-87, Cl. 33-176.000.

Woods, William B.; Brauer, McIvin; Duneczky, Francis; Simone, Dominic; and Cope, John F., to CasChem, Inc. Non-comedogenic cosmetic emollients. 4,664,908, 5-12-87, Cl. 424-59.000.

Woods Wire Products, Inc.: *See*—
Upchurch, James E., 4,6, 9,842, Cl. 362-376.000.

Woodstream Corporation: *See*—
Askins, William E., 4,638,589, Cl. 43-88.000.
Landell, Harper; and Woolworth, Richard G., 4,691,470, Cl. 43-55.000.

Woodsum, Gregory T., to Zenith Electronics Corporation. Error protection method for packeted data. 4,660,202, 4-21-87, Cl. 371-50.000.

Woodsum, Harvey C., to Sanders Associates, Inc. Virtually steerable parametric acoustic array. 4,703,462, 10-27-87, Cl. 367-92.000.

Woodsum, Harvey C.: *See*—
Malcom, Richard A.; and Woodsum, Harvey C., 4,635,278, Cl. 375-45.000.

Woodward, Arthur B.: *See*—
Hotchkiss, Kenneth W.; and Woodward, Arthur B., 4,697,720, Cl. 220-337.000.

Woodward, Clifford S., to Rolls-Royce plc. Jet propulsion nozzle. 4,641,782, 2-10-87, Cl. 239-265.290.

Woodward, Clifford S., to Rolls-Royce plc. Vectorable exhaust nozzle for a gas turbine engine. 4,679,732, 7-14-87, Cl. 239-265.350.

Woodward, Don W.: *See*—
Arndt, Brian D.; Loeb, Jonathon T.; Miller, Joseph C.; Parsapour, Hossein B.; Rascoe, Fred H., III; and Woodward, Don W., 4,678,175, Cl. 271-34.000.

Woodward, Eldon D. Combination toy box-drafting table. 4,682,827, 7-28-87, Cl. 312-231.000.

Woodward, Malcolm C.: *See*—
Allen, Derek E.; Woodward, Malcolm C.; and Cleaver, Brian W., 4,670,971, Cl. 29-597.000.

Woodward, Marylou. Women's urinal for use in erect position. 4,696,067, 9-29-87, Cl. 4-144.100.

Woodward, Robert B.: *See*—
Gosteli, Jacques; Ernest, Ivan; Lang, Marc; and Woodward, Robert B., 4,692,442, Cl. 515-195.000.

Woodward, Sheila E.: *See*—
Clairmont, Gregory P.; and Woodward, Sheila E., 4,688,794, Cl. 272-93.000.

Woodward, Tommy J.; Serse, Frank; and Spector, George. Puller for injector nozzles for mack heads. 4,665,602, 5-19-87, Cl. 29-254.000.

Woodward, William R.: *See*—
Weiss, John, 4,660,828, Cl. 272-138.000.

Woodward, Winfred L., III: *See*—
Gilman, Paul S.; Jatkar, Arun D.; Donachie, Stephen J.; Woodward, Winfred L., III; and Mattson, Walter F., 4,668,282, Cl. 75-0.50R.

Woodworth, Albert H. Battery connector. 4,664,468, 5-12-87, Cl. 339-239.000.

Woodworth, Donald J.; and Magin, Gregory A., to Microdyne Corporation. Variable phase signal demodulator. 4,636,736, 1-13-87, Cl. 329-50.000.

Woodworth, Frederick G.: *See*—
Belshaw, Thomas E.; Woodworth, Frederick G.; and Wilke, Wilbur D., 4,699,796, Cl. 426-438.000.

Woodworth, Gary C.; and Roberts, Gary F., to Kartridg Pak Co. The Tortilla folder. 4,638,729, 1-27-87, Cl. 99-450.600.

Woodworth, John L.; and Lynch, John M., to Kidde, Inc. Compartmented package. 4,657,134, 4-14-87, Cl. 206-219.000.

Wooff, Edward A., Jr.: *See*—
Sluyter, Erik; and Wooff, Edward A., Jr., 4,639,772, Cl. 358-98.000.

Woog, Manfred J. Reusable precious metal recovery cartridge. 4,662,613, 5-5-87, Cl. 266-170.000.

Wooge, Christian: *See—*
Speisebecher, Joachim; and Wooge, Christian, 4,637,745, Cl. 401-1.000.
Speisebecher, Joachim; and Wooge, Christian, 4,660,743, Cl. 222-146.500.
Wool Development International Ltd.: *See—*
Benisek, Ladislav; and Edmondson, Gerald K., 4,707,467, Cl. 502-403.000.
Gibson, James D. M., 4,695,485, Cl. 427-256.000.
Wool Research Organisation: *See—*
McKinnon, Alan J.; Vivian, Allan J.; and Rankin, Douglas A., 4,671,884, Cl. 252-8.800.
Wooley, Orval H.: *See—*
Falwell, Bobby R.; and Wooley, Orval H., 4,710,992, Cl. 5-508.000.
Wooley, Paul H., to American Home Products Corporation. Etodolac for inhibition of joint ankylosis. 4,710,511, 12-1-87, Cl. 514-411.000.
Wooley, William J., to Avondale Industries, Inc. Suction-type gripping mechanism with magnetic actuated vent valve. 4,674,784, 6-23-87, Cl. 294-64.100.
Woolf, Lawrence D.; and Purcell, John R., to GA Technologies Inc. High heat capacity composites for a superconductor. 4,647,888, 3-3-87, Cl. 335-216.000.
Woolf, Lawrence D., to GA Technologies Inc. Anemometer having a graphite fiber hot wire. 4,648,271, 3-10-87, Cl. 73-204.000.
Woolf, Lawrence D.: *See—*
Ohkawa, Tihiro; and Woolf, Lawrence D., 4,665,412, Cl. 357-6.000.
Woolfson, Louis A., to Pathway Communications Limited. Electronic memory devices for the blind. 4,694,494, 9-15-87, Cl. 381-51.000.
Woollam, Ronald F.; and MacDougall, Maurice L., to Hawker Siddeley Canada, Inc. Low level freight car. 4,686,907, 8-18-87, Cl. 105-4.100.
Woollenweber, William E. Bearing system. 4,641,977, 2-10-87, Cl. 384-99.000.
Woolley, Michel. Portable entertainment unit. 4,676,619, 6-30-87, Cl. 354-79.000.
Woollis, Theodore L.: *See—*
Dennis, Richard D.; and Woollis, Theodore L., 4,643,002, Cl. 62-525.000.
Woolman, Paul; and Seward, Barry, to Mars G.B. Limited. Beverage production. 4,644,855, 2-24-87, Cl. 99-280.000.
Woolmington, Timothy P.: *See—*
Bollands, Martin A.; Pike, William C.; Thukral, Prem S.; and Woolmington, Timothy P., 4,715,455, Cl. 175-402.000.
Woolnough, Anthony L. River control structures. 4,657,434, 4-14-87, Cl. 405-81.000.
Woolsey, Charles F., to Blue Streak, Inc. Hay baler conversion kit. 4,706,445, 11-17-87, Cl. 56-14.700.
Woolsey, Charles W.; Eskandry, Ezra D.; and Pinneo, George G., to Sensormatic Electronics Corporation. Signal receptor-reradiator and surveillance tag using the same. 4,642,640, 2-10-87, Cl. 342-42.000.
Woolston, James: *See—*
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Woolworth, Richard G.: *See—*
Landell, Harper; and Woolworth, Richard G., 4,691,470, Cl. 43-55.000.
Woon, Paul A.: *See—*
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Wooster Brush Company, The: *See—*
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Roe, Elverton O.; and Moore, Charles G., 4,658,461, Cl. 15-210.00R.
Roe, Elverton O.; and Moore, Charles G., 4,662,771, Cl. 403-108.000.
Roe, Elverton O.; and Moore, C. Gregg, 4,693,423, Cl. 239-332.000.
Wooten, Murthis E.: *See—*
Blount, Emmitt; Exum, Edward L.; and Wooten, Murthis E., 4,706,648, Cl. 126-243.000.
Wooten, Ronald E., to Excel Industries, Inc. Combination lock and concealed latch mechanism for a door panel. 4,635,397, 1-13-87, Cl. 49-394.000.
Wooters, Eldon W., to Outboard Marine Corporation. Vehicle seat switch. 4,678,058, 7-7-87, Cl. 180-273.000.
Worack, Stephen A. Slow motion actuating device. 4,695,016, 9-22-87, Cl. 246-415.00A.
Worcester, Peter C., to Barnes Engineering Company. Narcissus correction for infrared scanning microscope. 4,705,945, 11-10-87, Cl. 250-334.000.
Word, Tim D. Asphalt pumping system and method. 4,658,868, 4-21-87, Cl. 141-11.000.
Word, Tim D. Bulk material hauling system. 4,664,446, 5-12-87, Cl. 298-8.00H.
Work, John A.: *See—*
Mathews, Lester R.; and Work, John A., 4,689,145, Cl. 210-170.000.
Workman, Clayton E.: *See—*
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Workman, Gary L., to Deshaniers, Inc. Box void. 4,685,267, 8-11-87, Cl. 52-577.000.
Workman, Jack L. Method and apparatus for coupling a connector to thermoplastic pipe. 4,660,865, 4-28-87, Cl. 285-174.000.
Workman, John. Dynamoelectric machines. 4,698,539, 10-6-87, Cl. 310-216.000.
Workman, Michael L., to International Business Machines Corporation. Digital servo control system for a data recording disk file. 4,679,103, 7-7-87, Cl. 360-77.000.
Workum, Donald. Spray-discharge device for a deformable container. 4,673,110, 6-16-87, Cl. 222-211.000.
Worl-Tech Limited: *See—*
DiGiambattista, Vincent N., 4,699,657, Cl. 75-228.000.
Worland, D. Philip: *See—*
Scifres, Donald R.; and Worland, D. Philip, 4,688,884, Cl. 350-96.150.
World Chemical Co., Ltd.: *See—*
Mori, Youji; and Satou, Kenichi, 4,655,681, Cl. 415-100.000.
World Color Press, Inc.: *See—*
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World Gaming Consultants: *See—*
Reiss, Alan, 4,712,796, Cl. 273-148.00R.
World Patent Improvements S.A.: *See—*
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World Tech Fibres, Inc.: *See—*
Sheehan, Richard W.; and Williford, Kenneth A., 4,685,179, Cl. 28-248.000.
WorldEnergy Systems, Inc.: *See—*
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Worldsbest Industries, Inc.: *See—*
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Basore, Wayne; Zander, Susan; and Kiernan, Arthur, 4,646,802, Cl. 150-49.000.
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Worley, Norman G.: *See—*
Haftke, Jozef J.; Worley, Norman G.; Coleman, Colin R.; and Warris, Anne-Marie, 4,635,567, Cl. 110-188.000.
Worley, Robert F.: *See—*
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Worley, Shelby D.; and Swango, Larry J., to PPG Industries, Inc. Method for treating air-cooling system's aqueous medium. 4,659,484, 4-21-87, Cl. 210-755.000.
Worley, Shelby D., to PPG Industries, Inc. N,N-dihalo-2-imidazolidinones. 4,681,948, 7-21-87, Cl. 548-319.000.
Worley, William S., Jr., to Hewlett-Packard Company. Operation code selected overflow interrupts. 4,649,478, 3-10-87, Cl. 364-200.000.
Worley, William S., Jr.; Bryg, William R.; and Baum, Allen, to Hewlett-Packard Company. Cache memory consistency control with explicit software instructions. 4,713,755, 12-15-87, Cl. 364-200.000.
Wormald International Ltd.: *See—*
Byrne, Barry F., 4,646,846, Cl. 169-42.000.
Wormald, Malcolm R.: *See—*
Asher, James; Tofield, Bruce C.; Wormald, Malcolm R.; Huxtable, George B.; and Conlon, Thomas W., 4,675,527, Cl. 250-393.000.
Worms, Louis. Energy converter. 4,679,985, 7-14-87, Cl. 416-119.000.
Wormus, Ronald K.: *See—*
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Babcock, John W.; Wormus, Ronald K.; and Nelson, John D., 4,668,129, Cl. 405-284.000.
Worner, Alois. Tool, particularly an injection mold. 4,655,275, 4-7-87, Cl. 164-341.000.
Worner, Gunter; Moser, Franz; Tscheplak, Ernst; and Hausegger, Hermann, to Daimler-Benz Aktiengesellschaft. Divided flywheel. 4,662,239, 5-5-87, Cl. 74-574.000.
Worner, Jorg, to Nukem GmbH. Photovoltaic cell and method of making same. 4,709,119, 11-24-87, Cl. 136-260.000.
Worner, Jorg: *See—*
Hewig, Gert; Schurich, Bernd; Worner, Jorg; and Schock, Hans-Werner, 4,707,561, Cl. 136-256.000.
Worner, Kurt, to Maschinenbau Oppenweiler Binder GmbH & Co. Device for cutting through one or several sheets located wholly or partially on top of one another. 4,669,347, 6-2-87, Cl. 83-422.000.
Worner, Kurt: *See—*
Heina, Karl-Fritz; Hornung, Adolf; Worner, Kurt; and Wolf, Klaus, 4,643,412, Cl. 271-94.000.
Worner, Otto: *See—*
Frotschner, Eberhard; and Worner, Otto, 4,704,864, Cl. 60-330.000.
Worner, Siegfried; and Ottle, Walter, to J. Eberspacher. Exhaust gas treatment device for internal combustion engines. 4,669,261, 6-2-87, Cl. 60-297.000.
Worns, John R.; Chase, James W.; and Capriotti, Bruce W., to Uniroyal Plastics Co., Inc. Compressible photopolymer printing plate. 4,684,600, 8-4-87, Cl. 430-271.000.
Worns, John R.; Farber, Milton; and Hughes, David T., to Uniroyal Plastics Co., Inc.; and Royalite Plastics Limited. Photosensitive elastomeric composition for flexographic printing plates having improved softness. 4,686,172, 8-11-87, Cl. 430-286.000.
Worns, John R., to Uniroyal Plastics Co., Inc. Photosensitive elastomeric polymer composition for flexographic printing plate. 4,689,290, 8-25-87, Cl. 430-286.000.
Worrell, Williams R.; Laroche, Robert N.; and Armstrong, Michael J., to All-Steel Canada Ltd. Office furniture desk top with adjustable CRT carriage and tracking arrangement therefor. 4,637,666, 1-20-87, Cl. 312-196.000.
Worschech, Kurt; Loeffelholz, Frido; Wedl, Peter; and Wegemund, Bernd, to Henkel Kommanditgesellschaft auf Aktien. Lubricants for vinyl chloride polymers. 4,637,887, 1-20-87, Cl. 252-56.00R.

Worschischek, Rainer-Karl: *See*—
Landgraf, Hermann; Schuss, Werner; and Worschischek, Rainer-Karl, 4,681,540, Cl. 433-126.000.

Worsey, Paul N.: *See*—
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Worsham, Daniel A., to Pacific Western Systems, Inc. Apparatus for unloading wafers from a hot boat. 4,661,033, 4-28-87, Cl. 414-405.000.

Worsham, Richard H.; and Clark, John R., to United States of America, Air Force. Fire control apparatus for a laser weapon. 4,647,759, 3-3-87, Cl. 235-411.000.

Worsley, David R.: *See*—
Croset, Michel R.; Lane, Martin; Winchester, Roy E.; and Worsley, David R., 4,707,598, Cl. 250-223.00R.

Worsowicz, Eileene M.: *See*—
Kerins, Gerard J.; Collette, Wayne N.; Beck, Martin H.; Clark, Richard E.; Harry, Ieuan L.; Krishnakumar, Suppayan; Miller, Bryan H.; Nichols, Richard C.; Piccioli, David; Tacito, Louis D.; and Worsowicz, Eileene M., 4,665,682, Cl. 53-452.000.

Wortel, Theodorus M., to Exxon Research & Engineering Co. Dehydrocyclization of non-aromatic hydrocarbons over zeolite L. 4,677,236, 6-30-87, Cl. 585-419.000.

Wortel, Theodorus M., to Exxon Research & Engineering Co. Zeolite L and process for its preparation. 4,701,315, 10-20-87, Cl. 423-328.000.

Wortel, Theodorus M.: *See*—
van der Vleugel, Dominicus J. M.; Hoving, Klaas; Wortel, Theodorus M.; Rosensweig, Ronald E.; and Rees, Lovat V. C., 4,687,878, Cl. 585-820.000.

Worth, Sidney V., to C W Industries. Printed circuit board connector. 4,664,458, 5-12-87, Cl. 339-17.00M.

Worth, Sidney V., to Continental-Wirt Electronics Corporation. Connector with contacts on 0.025 inch centers. 4,669,801, 6-2-87, Cl. 439-404.000.

Worth, Sidney V., to Continental-Wirt Electronics Corporation. Hermaphroditic connector. 4,701,133, 10-20-87, Cl. 439-13.000.

Wortham, Larry C.: *See*—
Schwendemann, Kenneth L.; McCracken, Oliver W.; Mondon, Cary G.; and Wortham, Larry C., 4,636,934, Cl. 364-132.000.

Worthen, Billie C. Vehicle ice scraper having deformable blade. 4,712,269, 12-15-87, Cl. 15-236.00R.

Worthen, Steven F.; and Oursler, James D., to Hughes Tool Company-USA. Method of hardfacing steel bodied bits. 4,685,359, 8-11-87, Cl. 76-108.00A.

Worthington Cylinder Corporation. *See*—
Winland, Virgil L.; and Matyskella, James J., 4,697,611, Cl. 137-14.000.

Worthington, Diana M.: *See*—
Noon, Robert A.; Crowley, Patrick J.; and Worthington, Diana M., 4,634,466, Cl. 71-92.000.

Worthington, Mark N. Air conditioner with three stages of indirect regeneration. 4,660,390, 4-28-87, Cl. 62-309.000.

Worthington, Paul A.; Crowley, Patrick J.; and Gravestock, Michael B., to Imperial Chemical Industries Plc. Triazole alkanols having fungicidal and plant growth regulating properties. 4,655,820, 4-7-87, Cl. 71-92.000.

Worthington, Paul A.; and Shephard, Margaret C., to Imperial Chemical Industries PLC. Certain triazole compounds and their use as fungicides. 4,690,941, 9-1-87, Cl. 514-383.000.

Worthington, Paul A.: *See*—
Bushell, Michael J.; and Worthington, Paul A., 4,689,337, Cl. 514-383.000.
Parry, Keith P.; Rathmell, William G.; and Worthington, Paul A., 4,654,332, Cl. 514-184.000.

Worthington, Ralph E.; and Magdics, Alex, to Prodeco, Inc. Process for recovering uranium using an alkyl pyrophosphoric acid and alkaline stripping solution. 4,652,431, 3-24-87, Cl. 423-10.000.

Worthington, Ralph E.; and Magdics, Alex, to Prodeco, Inc. Process for recovering uranium using an alkyl pyrophosphoric acid and alkaline stripping solution. 4,652,432, 3-24-87, Cl. 423-10.000.

Worthington, Thomas K.: *See*—
Scranton, Robert A.; Thompson, David A.; and Worthington, Thomas K., 4,669,013, Cl. 360-106.000.

Worthy, James T. Railroad track gage. 4,654,973, 4-7-87, Cl. 33-144.000.

Wortman, Donald E.: *See*—
Morrison, Clyde A.; Karayianis, Nick; and Wortman, Donald E., 4,670,637, Cl. 219-121.00L.

Wortman, Donald W., to Seiscor Technologies, Inc. Sealed lead-acid battery float charger and power supply. 4,663,580, 5-5-87, Cl. 320-35.000.

Wortman, Rob: *See*—
Lee, James, 4,638,884, Cl. 181-141.000.

Wortmann, Johannes, to Wilhelm Karmann GmbH. Method of operating industrial robots, and industrial robot for carrying out the method. 4,637,121, 1-20-87, Cl. 29-568.000.

Wortzman, Mitchell S.: *See*—
Fong, John; Wortzman, Mitchell S.; and Scott, Richard A., 4,640,932, Cl. 514-714.000.
Scott, Richard A.; Wortzman, Mitchell S.; and Jungermann, Eric, 4,678,663, Cl. 424-62.000.

Worzek, Michael, to Feldkircher Wire Fabricating Co., Inc. Tree protector. 4,648,203, 3-10-87, Cl. 47-32.000.

Woschek, Dietrich: *See*—
Ascheron, Eberhard; Kuhnlenz, Konrad; Oetzel, Dieter; and Woschek, Dietrich, 4,664,537, Cl. 384-470.000.

Wosegien, Bernd: *See*—
Staltmeir, Josef; and Wosegien, Bernd, 4,650,040, Cl. 188-207.000.

Wossmann, Reinhard: *See*—
Haver, Eitel F.; Lutke-Foller, Heinz; and Wossmann, Reinhard, 4,691,744, Cl. 139-425.00R.

Wossner, Felix; and Geiling, Wolfgang, to Fichtel & Sachs AG. Method of manufacturing a cylinder member of a cylinder piston unit. 4,643,011, 2-17-87, Cl. 72-113.000.

Wossner, Felix, to Fichtel & Sachs AG. Vibration damper with variable damping force. 4,671,392, 6-9-87, Cl. 188-299.000.

Wossner, Felix, to Fichtel & Sachs AG. Vibration damper with variable damping force. 4,706,787, 11-17-87, Cl. 188-299.000.

Wossner, Heinz. Motor vehicle. 4,640,377, 2-3-87, Cl. 180-9.100.

Woten, Homer G.: *See*—
Kaine, Eugene; Woten, Homer G.; and Willston, Everett S., 4,662,221, Cl. 73-599.000.

Wotherspoon, Neil: *See*—
Siegel, Richard C.; Marx, Christina S.; Hargitay, Bartholomew; and Wotherspoon, Neil, 4,713,350, Cl. 436-533.000.

Wouda, Kornelis J.; and Reijntjens, Wilhelmus J. M., to U.S. Philips Corporation. Arrangement for generating a clock signal. 4,709,378, 11-24-87, Cl. 375-110.000.

Woudenberg, Cornelius; and Skinner, Bruce A. J., to Coromed International. Cardiopulmonary resuscitator. 4,664,098, 5-12-87, Cl. 128-53.000.

Woudsma, Roberto: *See*—
Spaanenburg, Lambertus; Duin, Peter B.; Woudsma, Roberto; and van der Poel, Arie A., 4,656,592, Cl. 364-490.000.

Woven Electronics Corporation: *See*—
Mondor, Edward J., III, 4,712,298, Cl. 29-861.000.
Piper, Douglas E.; and Black, Michael D., 4,682,828, Cl. 439-92.000.

Woxholt, Stanley, to Sharon Wire Mill Corporation (Proprietary) Limited. Stranding machine. 4,677,816, 7-7-87, Cl. 57-59.000.

Woy, Thaddeus W., to Chrysler Motors Corporation. Electrical circuit with high thermal dissipation. 4,660,124, 4-21-87, Cl. 361-386.000.

Woyak, Mark: *See*—
Bush, Eugenia; Wilson, Frank; and Woyak, Mark, 4,699,020, Cl. 74-544.000.

Woynar, Helmut: *See*—
König, Klaus; Pedain, Josef; and Woynar, Helmut, 4,656,223, Cl. 524-871.000.

Woyski, Ronald D. Start switch for a single phase AC motor. 4,651,077, 3-17-87, Cl. 318-781.000.

Woyski, William B.; Huntley, Bruce L.; and Tauscher, Robert C., to Team Corporation. Damped reaction base for vibration tester. 4,635,764, 1-13-87, Cl. 188-268.000.

Woythal, Robert T.: *See*—
Lohneis, Earl R.; and Woythal, Robert T., 4,679,970, Cl. 408-128.000.

Woyton, Joseph T. Indicator with staged data processing. 4,713,973, 12-22-87, Cl. 73-862.670.

Wozniacki, Roger M.: *See*—
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Wozniak, Jocelyne: *See*—
Barton, Derek H. R.; Zard, Samir Z.; and Wozniak, Jocelyne, 4,689,410, Cl. 540-108.000.

Wozniak, Johannes: *See*—
Henke, Klaus; and Wozniak, Johannes, 4,696,520, Cl. 301-63.0DS.

Wozniak, Kenneth P.: *See*—
Behr, Michael E.; Wozniak, Kenneth P.; Gaubis, Philip A.; Guest, Philip Q., Jr.; Graves, James L.; and Wand, Thomas J., 4,660,671, Cl. 180-142.000.

Wozniak, Mitchell S. Adjustable container capping apparatus. 4,662,153, 5-5-87, Cl. 53-331.500.

Wozniak, Richard F.: *See*—
Brown, Cal R.; Gallagher, Michael T.; Wozniak, Richard F.; and Williams, Peter C., 4,660,591, Cl. 137-312.000.

Wozniak, Robert A. Set of sculptural construction pieces. 4,643,4.7, 2-17-87, Cl. 273-160.000.

Wozniak, Walter E.: *See*—
Garner, Gerald D.; and Wozniak, Walter E., 4,685,966, Cl. 73-583.000.

Wozniak, Walter J.: *See*—
Kulesza, Ralph J.; Wozniak, Walter J.; and Disko, Harry, 4,708,690, Cl. 446-351.000.

Woznick, Chuck P.: *See*—
Pratt, Clyde R.; Carignan, Roger G.; Raggio, Charles M.; and Woznick, Chuck P., 4,636,219, Cl. 623-22.000.

Woznicki, Edward J.: *See*—
Porter, Stuart C.; and Woznicki, Edward J., 4,643,894, Cl. 424-35.000.
Porter, Stuart C.; and Woznicki, Edward J., 4,683,256, Cl. 524-285.000.
Porter, Stuart C.; Woznicki, Edward J.; Grillo, Susan M.; and D'Andrea, Louis F., 4,704,295, Cl. 427-3.000.

Wozniczka, George, to Zenith Electronics Corporation. Heat sink. 4,691,765, 9-8-87, Cl. 165-80.300.

Wozniczka, George, to Zenith Electronics Corporation. Two piece heat sink with serrated coupling. 4,695,924, 9-22-87, Cl. 361-386.000.

Wozniczka, George, to Zenith Electronics Corporation. PC board connector with shorting bus bar. 4,708,659, 11-24-87, Cl. 439-62.000.

WPM, Inc.: *See*—
Gerdes, Gerald E., 4,635,673, Cl. 137-216.000.

Wragg, Anthony: *See*—
Healey, John C.; and Wragg, Anthony, 4,670,278, Cl. 426-387.000.

Wraight, Peter D. Rotatable insect trap device. 4,676,022, 6-30-87, Cl. 43-121.000.

Wrana, Josef B. V., to U.S. Philips Corporation. Dispenser and dispensing cassette. 4,679,483, 7-14-87, Cl. 89-1.510.

Wrathall, Robert S., and Sutor, Judy L., to Motorola Inc. CMOS high gain amplifier utilizing positive feedback. 4,701,718, 10-20-87, Cl. 330-253.000.

Wrathall, Robert S., and McLaughlin, Kevin L., to Motorola Inc. ECL/CMOS memory cell with separate read and write bit lines. 4,701,883, 10-2[illegible]-87, Cl. 365-154.000.

Wray, Andrew P.: *See*—
Pidcock, Anthony; and Wray, Andrew P., 4,693,074, Cl. 60-39.320.

Wray, Daniel X., to Dynamic Disk. Substrate material for magnetic recording media. 4,686,151, 8-11-87, Cl. 428-607.000.

Wray, George; Ward, Trevor; and Goodfellow, James H., to British Gas plc. Regenerative heating apparatus. 4,676,744, 6-30-87, Cl. 432-181.000.

Wray, William R.: *See*—
Kiesel, Kenneth C.; and Wray, William R., 4,649,568, Cl. 382-41.000.

Wreede, John E.; and Arns, James A., to Hughes Aircraft Company. Side lobe suppression in holograms using pre-exposure. 4,687,720, 8-18-87, Cl. 430-2.000.

Wreford-Howard, David, to American Television & Communications Corporation. Cable television system data verification apparatus. 4,673,976, 6-16-87, Cl. 358-10.000.

Wreford-Howard, David: *See*—
Rast, Robert M.; and Wreford-Howard, David, 4,684,980, Cl. 358-86.000.

Wrege, Richard A.; Chmiel, Steven F.; and Murn, Victor A., to PT Components, Inc. Low cost, load and speed sensitive motor control starting circuit. 4,670,697, 6-2-87, Cl. 318-786.000.

Wren, Boyd R. Dispenser for rolled toilet tissue and like material. 4,659,028, 4-21-87, Cl. 242-55.530.

Wren, Michael; Lantz, Paul W.; Acock, George W., Jr.; and Rhodes, James A., to James A. Rhodes & Associates. Building with covered interior open space. 4,696,133, 9-29-87, Cl. 52-80.000.

Wrest, Robert A.: *See*—
Hondzinski, Leonard J.; and Wrest, Robert A., 4,683,668, Cl. 34-229.000.

Wrhen, Wilmer C., to United States Steel Corporation. Attachment for connecting endwall mold face to continuous caster mold support. 4,651,802, 3-24-87, Cl. 164-436.000.

Wride, Lawrence; and Keefer, Donald W., to Classic Corporation. Wave dampened waterbed. 4,688,284, 8-25-87, Cl. 5-450.000.

Wright, Allen B.; and Chichester, Willard L., to Allied Corporation. Simplified air filter. 4,692,177, 9-8-87, Cl. 55-499.000.

Wright, Andrew C. W., to Dzus Fastener Co. Inc. Quick-release fastener. 4,677,714, 7-7-87, Cl. 24-590.000.

Wright, Anthony R.: *See*—
Goodfellow, Anthony G.; and Wright, Anthony R., 4,714,505, Cl. 156-64.000.
Sumner, Anthony J. M.; and Wright, Anthony R., 4,699,578, Cl. 424-33.000.

Wright, Antony P.: *See*—
Klosowski, Jerome M.; Meddaugh, Michael D.; Sykes, Paul B.; and Wright, Antony P., 4,657,967, Cl. 524-860.000.

Wright, Bernard S.: *See*—
Owen, Hartley; Tabak, Samuel A.; and Wright, Bernard S., 4,634,798, Cl. 585-331.000.

Wright, Brian L. Accessory for yachts. 4,699,074, 10-13-87, Cl. 114-218.000.

Wright, Charles D.: *See*—
Robins, Janis; and Wright, Charles D., 4,668,736, Cl. 525-65.000.
Robins, Janis; and Wright, Charles D., 4,704,331, Cl. 428-414.000.

Wright, Charles G., to International Business Machines Corporation. Initialization apparatus for a data processing system with a plurality of input/output and storage controller connected to a common bus. 4,688,172, 8-18-87, Cl. 364-200.000.

Wright, Charles G.: *See*—
Waldecker, Donald E.; and Wright, Charles G., 4,669,056, Cl. 364-900.000.

Wright, Charles P. Hydraulic well pumping apparatus. 4,646,517, 3-3-87, Cl. 60-371.000.

Wright, Charles S., to Delta Electronics. Fully compatible AM stereophonic transmitting system. 4,638,503, 1-20-87, Cl. 381-16.000.

Wright, Charles W. Illuminated drafting aid. 4,665,623, 5-19-87, Cl. 33-468.000.

Wright, Danny O.; and Pauwels, Michael A., to Allied Corporation. Temperature compensation injector control system. 4,636,620, 1-13-87, Cl. 219-501.000.

Wright, David A.; and Webb, David B., to Canada, Her Majesty the Queen in right of. Survival kit air deployable apparatus and method. 4,639,229, 1-27-87, Cl. 441-42.000.

Wright, David A.: *See*—
Pitches, Brian E.; and Wright, David A., 4,691,446, Cl. 33-516.000.

Wright, David E., to McNeilab, Inc. Peptide antagonists of neurokinin B. 4,665,157, 5-12-87, Cl. 530-328.000.

Wright, David L., to Spectra-Physics, Inc. Method and apparatus for regulating pressure in laser tubes. 4,689,796, 8-25-87, Cl. 372-33.000.

Wright, David L.: *See*—
Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,649,547, Cl. 372-61.000.
Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,683,579, Cl. 372-59.000.
Carlson, Lee R.; Hegedus, Denes A.; Jarrett, Steven M.; Miller, Michael F.; Riley, Martin E.; and Wright, David L., 4,685,110, Cl. 372-61.000.
DeBell, Gary W.; Wright, David L.; Ruddock, Kenneth A.; Petersen, Alan B.; Carlson, Lee R.; and von Gunten, Marc K., 4,685,110, Cl. 372-103.000.

Wright, David M.; and Guida, Patrick M., to Wright Line, Inc. System for storing and dispensing magnetic tape cartridges. 4,651,892, 3-24-87, Cl. 211-40.000.

Wright, David M., to Sunbeam Plastics Corporation. Mouthwash dispenser. 4,660,746, 4-28-87, Cl. 222-207.000.

Wright, David M., to Wright Line, Inc. Stationary storing and dispensing system. 4,684,027, 8-4-87, Cl. 211-40.000.

Wright, Donald P., Jr.: *See*—
Addor, Roger W.; Wright, Donald P., Jr.; Sibblens, Jack K.; and Hand, John J., 4,649,148, Cl. 514-321.000.

Wright, Donald R., to Dow Chemical Company, The. Process to form generally rigid cushion packages from loose fill dunnage. 4,640,9[illegible], 2-3-87, Cl. 53-449.000.

Wright, Forrest S.: *See*—
Grant, Ralph M.; Haskell, Richard E.; Paskus, Anthony; Weddle, Stanley R.; and Wright, Forrest S., 4,690,552, Cl. 356-35.50[illegible].

Wright, Francis M.: *See*—
Genovese, John S.; Grazul, Edwin C.; Messner, David J.; and Wright, Francis M., 4,664,982, Cl. 428-447.000.

Wright, Fred. Aiming system for billiards. 4,688,796, 8-25-87, Cl. 273-68.000.

Wright, George B.: *See*—
Yoder, Max N.; and Wright, George B., 4,710,478, Cl. 437-40.00[illegible].

Wright, George E., to University of Massachusetts, Trustees of the, N-(phenyl substituted) deoxy guanosine containing compounds. 4,663,446, 5-5-87, Cl. 536-28.000.

Wright, George M.; and Blake, Larry W., to Innovative Surgical Products, Inc. Foot actuated pinch valve and high vacuum source for irrigation/aspiration handpiece system. 4,702,733, 10-27-87, Cl. 604-14.000.

Wright, H. Earl: *See*—
Perry, Donald A.; and Wright, H. Earl, 4,657,021, Cl. 128-630.00[illegible].

Wright, Harold T. Spindle hub-disc interface. 4,672,488, 6-9-87, Cl. 360-98.000.

Wright, Harry D.; Hale, John M.; and Weber, Eugen, to Orbisphere Corporation Wilmington, Succursale de Collonge-Bellerive, Thermal protection method for electroanalytical cell. 4,711,703, 12-8-87, Cl. 204-1.00[illegible].

Wright, Herschel E.; and Zaluda, Jan, to Beckman Instruments, Inc. Method and apparatus for monitoring liquid flow. 4,647,919, 3-3-87, Cl. 340-608.000.

Wright, Ian G., to Commonwealth Scientific & Industrial Research Organization. Babesiosus antigen and method for preparation. 4,661,348, 4-28-87, Cl. 424-88.000.

Wright, James D. Fastener for a readily disengageable interior panel. 4,689,929, 9-1-87, Cl. 52-239.000.

Wright, James H., to Standard Oil Company. Method for enhancing common depth point seismic data. 4,677,597, 6-30-87, Cl. 367-47.00[illegible].

Wright, James H.: *See*—
Bodine, John H.; Bork, Jonathan; Alford, Richard M.; Wright, James H.; and Thomsen, Leon A., 4,646,239, Cl. 364-421.00[illegible].

Wright, James L., to Weyerhaeuser Company. Chipper knife assembly. 4,667,713, 5-26-87, Cl. 144-231.000.

Wright, James L., Jr., and Christiansen, Hakon, to Wright, James L., Jr. Printing apparatus. 4,660,471, 4-28-87, Cl. 101-219.000.

Wright, James N. Weather shield for side-mounted, rear-view, tractor trailer mirror. 4,668,058, 5-26-87, Cl. 350-582.000.

Wright, Jewel L. Blind fastener. 4,696,610, 9-29-87, Cl. 411-38.000.

Wright, Joe, Jr. Quick release yarn package holder. 4,648,564, 3-10-87, Cl. 242-130.000.

Wright, John, to Aeronautical & General Instruments PLC. Moving coin validation. 4,664,244, 5-12-87, Cl. 194-317.000.

Wright, John A.: *See*—
Grellmann, H. Erwin; Jones, Keith E.; Laakso, Carl W.; and Wright, John A., 4,657,322, Cl. 339-17.00M.

Wright, John F.: *See*—
Baker, Terence S.; Abbott, Stephen R.; Simpson, John G.; Wright, John F.; and Powell, Michael J., 4,656,143, Cl. 436-527.000.

Wright, John J.: *See*—
Meanwell, Nicholas; and Wright, John J., 4,668,686, Cl. 514-293.000.
Meanwell, Nicholas A.; and Wright, John J., 4,701,459, Cl. 514-293.000.

Wright, John K.: *See*—
Hogan, Dennis R.; and Wright, John K., 4,641,127, Cl. 379-41.000.

Wright, John W. Adobe block press. 4,640,671, 2-3-87, Cl. 425-149.00[illegible].

Wright, Joseph W.: *See*—
Ritzman, Ira G.; and Wright, Joseph W., 4,695,775, Cl. 315-410.00[illegible].

Wright, Kenneth, to Incotex B.V. Method of manufacturing knitted briefs. 4,663,946, 5-12-87, Cl. 66-177.000.

Wright, Kenneth W. Precision intraocular apparatus. 4,662,869, 5-5-87, Cl. 604-22.000.

Wright, Kenton B.: *See*—
Voegel, Robert L.; and Wright, Kenton B., 4,645,582, Cl. 204-286.000.

Wright, Larry E.; and Mayberry, John A., to Deere & Company. Cooperating bolster and fixture construction for quick-change fixturing. 4,688,974. 8-25-87. Cl. 409-219.000.
Wright Line, Inc.: *See*—
Beam, John W.; and Paquette, Edmund T., 4,701,066, Cl. 403-298.000.
Hedstrom, Norman A.; and Cournoyer, Bernard T., 4,662,776, Cl. 403-387.000.
King, Ronald R.; and May, Norman C., Sr., 4,668,027, Cl. 312-13.000.
Wright, David M.; and Guida, Patrick M., 4,651,882, Cl. 211-40.000.
Wright, David M., 4,684,027, Cl. 211-40.000.
Wright, M. Bosley. Moulding routing apparatus. 4,715,415. 12-29-87. Cl. 144-136.00R.
Wright, Mark W., to Innovation Industries, Inc. Relative position monitoring apparatus. 4,683,990. 8-4-87. Cl. 187-134.000.
Wright, Norman D.; Glanzner, Gary C.; and Signorelli, John A. Printing press blanket cleaner. 4,667,597. 5-26-87. Cl. 101-425.000.
Wright, Peter, to Valor Heating Limited. Gas burners. 4,674,973. 6-23-87. Cl. 431-284.000.
Wright, Peter G.: *See*—
Williams, David A.; and Wright, Peter G., 4,639,013, Cl. 280-707.000.
Wright, Peter V., to R. F. Monolithics, Inc. Singly rotated orientation of quartz crystals for novel surface acoustic wave devices. 4,670,681. 6-2-87. Cl. 310-313.00A.
Wright, Peter V., to R. F. Monolithics, Inc. Notch filter. 4,694,266. 9-15-87. Cl. 333-196.000.
Wright, Raymond L.: *See*—
Twogood, Rodney L.; Wright, Raymond L.; and Rawle, Roger D., 4,707,900. Cl. 29-244.000.
Wright, Richard F.; Adair, Paul C.; and Sanders, Frederick W., to Mead Corporation, The. Method for forming relief images and photosensitive material useful therein. 4,687,725. 8-18-87. Cl. 430-138.000.
Wright, Richard F.: *See*—
Saccocio, Edward J.; Kiser, T. Kay; Wright, Richard F.; and Head, Donald L., 4,675,269, Cl. 430-138.000.
Wright, Robert L. Pitching target. 4,643,423. 2-17-87. Cl. 273-26.00A.
Wright, Robert L.: *See*—
Wilson, Richard A.; and Barbaglia, Joseph C., 4,709,924, Cl. 273-26.00R.
Wright, Robert V.: *See*—
Alexander, Garold W.; Hyder, Lonnie E.; and Wright, Robert V., 4,693,666, Cl. 493-152.000.
Wright, Ronald C.: *See*—
Riederer, Stephen J.; Wright, Ronald C.; and Lee, James N., 4,694,252, Cl. 324-309.000.
Wright, Roy F.: *See*—
Leland, John E.; Dix, James S.; and Wright, Roy F., 4,680,326, Cl. 524-106.000.
Yu, Michael C.; and Wright, Roy F., 4,711,796, Cl. 427-185.000.
Wright State University: *See*—
Larson, Paul F.; Douglas, Roy D.; Petrofsky, Jerrold S.; and Phillips, Chandler A., 4,697,808, Cl. 272-70.000.
Petrofsky, Jerrold S., 4,642,769, Cl. 364-415.000.
Petrofsky, Jerrold S., 4,711,242, Cl. 128-419.00R.
Seybold, Paul G., 4,643,122, Cl. 116-206.000.
Wright, Stephen, to Standard Telephones and Cables Public Limited Company. Coherent reflectometer. 4,674,872. 6-23-87. Cl. 356-73.100.
Wright, Steven F.; Stenstrom, Eric J.; and Wolyn, Joseph, to Molex Incorporated. Accurate positioning of solid components for a robotic pickup. 4,633,584. 1-6-87. Cl. 29-834.000.
Wright, Stewart L. Adjustable face mask. 4,657,010. 4-14-87. Cl. 128-205.250.
Wright, Stuart C.; Stiles, Lorren, Jr.; and Adams, Don L., to United Technologies Corporation. Collective control system for a helicopter. 4,696,445. 9-29-87. Cl. 244-229.000.
Wright, Terence D.: *See*—
Beard, Thomas W.; Pople, John R.; and Wright, Terence D., 4,668,940, Cl. 340-521.000.
Wright, Terry L., to Merrell Dow Pharmaceuticals Inc. 5-chloro-s-triazolo[4,3-a]-pyridine-7-carboxylic acids, useful as antiallergic agents. 4,650,872. 3-17-87. Cl. 546-119.000.
Wright, Thomas C.; and Johnson, Grover L., to Orin Chemical Company. Water borne polymer foamable composition. 4,692,473. 9-8-87. Cl. 521-72.000.
Wright, Thomas M., to Amerock Corporation. Apparatus for mounting and stabilizing a tiltable window sash. 4,646,691. 2-24-87. Cl. 49-161.000.
Wright, Timothy D. Dual purpose athletic brief and cup supporter. 4,660,554. 4-28-87. Cl. 128-158.000.
Wright, Wade S.; Voisine, John T.; and Huppi, Glenn S., to Armco Inc. Non-contact sensing system for determining the relative elongation in a moving flat steel strip. 4,677,578. 6-30-87. Cl. 364-562.000.
Wright, Walter E.: *See*—
Kukolja, Stjepan; and Wright, Walter E., 4,683,227, Cl. 514-202.000.
Wright, William: *See*—
Dytch, Anthony; Keatley, Andrew; and Wright, William, 4,638,147, Cl. 219-308.000.
Wright, William B.; and Flatman, Richard J., to Rolls-Royce plc. Blade tip clearance control. 4,683,716. 8-4-87. Cl. 60-226.100.
Wright, William B.; and Maguire, Addison C., to Rolls-Royce plc. Propeller module for an aero gas turbine engine. 4,688,995. 8-25-87. Cl. 416-127.000.
Wright, William B., Jr.; Tomcufcik, Andrew S.; and Marsico, Joseph W., Jr., to American Cyanamid Company. 3-imidazolylalkyl-, triazolylalkyl-, pyridinylalkyl-1,2,3-benzotriazin-4(3H)-ones and derivatives thereof. 4,680,293. 7-14-87. Cl. 514-243.000.
Wright, William B., Jr.; and Tomcufcik, Andrew S., to American Cyanamid Company. 3-heteroalkyl-2,4-quinazolinediones. 4,684,654. 8-4-87. Cl. 514-259.000.
Wright, William B., Jr.; and Tomcufcik, Andrew S., to American Cyanamid Company. 3-heteroarylalkyl-4-quinazolinones. 4,710,502. 12-1-87. Cl. 514-259.000.
Wright, William E.; and Zaweski, Edward F., to Ethyl Corporation. Asphaltic compositions. 4,645,538. 2-24-87. Cl. 106-273.00N.
Wright, William E.: *See*—
McManus, John R.; and Wright, William E., 4,633,942, Cl. 165-172.000.
Wright, William E., Sr.: *See*—
Mitchell, Charles A.; Wawro, Thaddeus J.; Whipple, Charles E.; and Wright, William E., Sr., 4,679,405, Cl. 62-285.000.
Wright, William M. D., to D. W. Electrochemicals Ltd. Contact stabilization coating material for electrical contact surfaces and method. 4,696,832. 9-29-87. Cl. 427-58.000.
Wright, William S.: *See*—
Blitshteyn, Mark; Rodrigo, Richard D.; and Wright, William S., 4,665,462, Cl. 361-213.000.
Blitshteyn, Mark; and Wright, William S., 4,716,371, Cl. 324-457.000.
Wright, William T.; and Guard, Edward J. Universal cup holder. 4,634,089. 1-6-87. Cl. 248-311.200.
Wright, William T.: *See*—
Guyette, Raymond F.; and Wright, William T., 4,699,027, Cl. 81-9.510.
Wright, Woodring E., to Board of Regents, The University of Texas System, The. Methods for isolating cell fusion products. 4,659,663. 4-21-87. Cl. 435-172.200.
Wrightcel Limited: *See*—
Kalkipsakis, Charalambos G., 4,672,688, Cl. 383-58.000.
Wells, Peter R., 4,645,100, Cl. 222-505.000.
Wrighton, William F. C.: *See*—
Nabell, Robert E.; and Wrighton, William F. C., 4,703,983, Cl. 439-92.000.
Wrightson, Keith: *See*—
Sitwell, Christine L.; Wrightson, Keith; and Sparks, Richard C., 4,664,254, Cl. 206-1.700.
Wrightson, Robert W.: *See*—
Colliver, Anthony D.; and Wrightson, Robert W., 4,643,644, Cl. 416-174.000.
Wrinn, Joseph F.; Heller, Lawrence; Chen, Jiann-Neng; and Brenner, Jacqueline N., to Teradyne, Inc. Circuitry for synchronizing a multiple channel circuit tester. 4,660,197. 4-21-87. Cl. 371-1.000.
Wrobel, Dieter: *See*—
Krug, Wolfgang; Knispel, Gottfried; and Wrobel, Dieter, 4,704,408, Cl. 521-82.000.
Wrobel, Guenter, to Papst-Motoren GmbH & Co. KG. Enamelled wire connection for circuit boards. 4,673,834. 6-16-87. Cl. 310-71.000.
Wrobel, Guenter, to Papst-Motoren GmbH & Co. KG. Electric motor, especially collectorless d.c. motor, with an outside rotor. 4,703,209. 10-27-87. Cl. 310-67.00R.
Wrobleski, David L.: *See*—
Barker, David C.; Wrobleski, David L.; Nix, Richard A.; and Leigh-Monstevens, Keith V., 4,665,802, Cl. 92-23.000.
Leigh-Monstevens, Keith V.; Wrobleski, David L.; Nix, Richard A.; and Rei, Mark W., 4,687,084, Cl. 192-85.0CA.
Wroblewski, David J.; and Robertson, John W., Jr., to Babcock & Wilcox Company, The. Electro-mechanical integrator. 4,692,933. 9-8-87. Cl. 377-29.000.
Wroblewski, David J.: *See*—
Knudsen, James K.; Smith, Jane E.; Budan, Victor J.; Wroblewski, David J.; and Skuratovsky, Eugene, 4,679,445, Cl. 73-861.240.
Wroblewski, Franz. Bundle limber. 4,693,287. 9-15-87. Cl. 144-2.00Z.
Wroblewski, Thomas R.; and Miesterfeld, Frederick O. R., to Chrysler Motors Corporation. Switch status monitoring system, single wire bus, smart sensor arrangement therefor. 4,677,308. 6-30-87. Cl. 307-10.00R.
Wroblowa, Halina S.: *See*—
Tischer, Ragnar P.; Winterbottom, Walter L.; and Wroblowa, Halina S., 4,649,022, Cl. 419-24.000.
Wroblowsky, Heinz-Jurgen; Stetter, Jorg; Eue, Ludwig; Schmidt, Robert R.; and Santel, Hans-Joachim, to Bayer Aktiengesellschaft. Herbicidal tetrahydrothiopyran-2,4-dione derivatives, compositions, and method of use therefor. 4,636,245. 1-13-87. Cl. 71-90.000.
Wroblowsky, Heinz-Jurgen: *See*—
Stetter, Jorg; Wroblowsky, Heinz-Jurgen; Schmidt, Robert R.; Santel, Hans-Joachim; Hanssler, Gerd; and Lurssen, Klaus, 4,638,004, Cl. 514-272.000.
Wroczynski, Ronald J., to General Electric Company. Modified polyphenylene ether resins having improved foamability and methods of making the same. 4,684,669. 8-4-87. Cl. 521-90.000.
Wronski, Christopher R., to Exxon Research and Engineering Company. Amorphous photoreceptor with high sensitivity to long wavelengths. 4,701,395. 10-20-87. Cl. 430-58.000.
Wruck, Paul D.; and Ryan, Adrian J., to Marathon Oil Company. Process for conveying raw coal. 4,702,421. 10-27-87. Cl. 241-15.000.
Wruck, Richard A.: *See*—
Barnard, William B.; Shavit, Gideon; and Wruck, Richard A., 4,660,759, Cl. 236-46.00R.

Wrue, Richard J.: *See*—
Cook, William H., Deichert, William G.; Wrue, Richard J.; and Westfall, Norman R., 4,701,288, Cl. 264-1.400.

WSO CPU-System AB. *See*—
Olenfalk, Bengt; Witt, Goran; and Sarberg, Anders, 4,671,087, Cl. 70-283.000.

WSW-Planungs-GmbH. *See*—
Stog, Wilhelm; and Stog, Jochen, 4,647,342, Cl. 202-242.000.
Stog, Wilhelm; and Stog, Jochen, 4,647,343, Cl. 202-248.000.

WSWF Auto-Electric GmbH: *See*—
Erdelitsch, Herbert; and Hecht, Walter, 4,678,875, Cl. 200-61.540.

Wszolek, Marie: *See*—
Shu, Paul; and Wszolek, Marie, 4,676,930, Cl. 252-315.300.

Wu, Alexander F.; and Walters, Robert B., to General Electric Company. Flame retardant wire with high insulation resistance. 4,693,937, 9-15-87, Cl. 428-389.000.

Wu, Alexander F.: *See*—
Wilczak, Boguslaw G.; Wilkus, Edward V.; and Wu, Alexander F., 4,647,602, Cl. 523-204.000.

Wu, Annie L.: *See*—
Findlay, John B.; and Wu, Annie L., 4,703,002, Cl. 435-17.000.
Findlay, John B.; Wu, Annie L.; and Norton, Gary E., 4,713,327, Cl. 435-17.000.

Wu, Bao-Gang; and Doane, J. William. Liquid crystalline-plastic material having submillisecond switch times and extended memory. 4,671,618, 6-9-87, Cl. 350-347.00V.

Wu, Bing T. Sport's cap umbrella. 4,641,675, 2-10-87, Cl. 135-20.00A.

Wu, C. H.; and Wu, Gerald P. T. Vehicle with multiple power source. 4,697,660, 10-6-87, Cl. 180-65.200.

Wu, Che-Kuang, to Canyon Materials Research & Engineering. High energy beam sensitive glasses. 4,670,366, 6-2-87, Cl. 430-13.000.

Wu, Chester C.: *See*—
Osborn, Scott E.; Farrugia, Vincent J.; Plischke, LeMoyne W.; and Wu, Chester C., 4,701,518, Cl. 528-336.000.

Wu, Chialin. Full duplex frequency division multiplex communication system. 4,644,526, 2-17-87, Cl. 370-30.000.

Wu, Chien-Chin; Reuter, Gerald L.; and Coons, Mark E., to American Home Products Corp. Rehydratable antacid composition. 4,676,984, 6-30-87, Cl. 424-157.000.

Wu, Chien-Chin; and Reuter, Gerald L., to American Home Products Corp. Fluidized magaldrate suspension. 4,704,278, 11-3-87, Cl. 424-157.000.

Wu, Christopher K. C.: *See*—
Cellier, Francis; Graulty, Robert T.; Johnson, Wendell L.; Batson, David M.; Limpert, John C.; Wu, Christopher K. C.; Bucher, George D.; John, Clarence D., Jr.; Steinkirchner, John E.; Larouere, Paula J.; Shah, Hemant H.; and Williams, Robert A., 4,687,605, Cl. 264-0.500.

Wu, Chuck. Sole for athletic shoe and method of making the same. 4,649,586, 3-17-87, Cl. 12-146.00B.

Wu, Chung P.: *See*—
Pankove, Jacques I.; and Wu, Chung P., 4,684,964, Cl. 357-17.000.

Wu, Chyi-Ying. Precise-reading angular level. 4,656,752, 4-14-87, Cl. 33-399.000.

Wu, Dan T.: *See*—
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Wurm, Jaroslav: *See*—
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Finn, Patrick J.; Glover, Linda M.; Henry, Arnold W.; and Lin, Adalbert A., 4,659,621, Cl. 428-339.000.
Foley, Geoffrey M. T., 4,638,397, Cl. 361-212.000.
Folkins, Jeffrey J., 4,643,561, Cl. 355-14.00D.
Forbes, Richard L., II, 4,641,946, Cl. 355-3.0DD.
Forbes, Richard L., II; Franzen, James J.; Solomon, James A.; and Weikel, Donald J., Jr., 4,657,370, Cl. 355-3.0BE.
Forbes, Richard L., II; and Thorp, Bruce E., 4,690,544, Cl. 355-15.000.
Fratangelo, Louis D., 4,669,719, Cl. 271-251.000.
Froelich, Ronald, 4,647,981, Cl. 358-285.000.
Fromm, Paul M., 4,653,897, Cl. 355-3.0FU.
Fulmer, David M., 4,639,996, Cl. 29-407.000.
Gabor, Andrew; and Dunfield, John C., 4,668,112, Cl. 400-157.300.
Gabor, Andrew; Dunfield, John C.; Bowers, George W., Jr.; and Crystal, Richard G., 4,678,355, Cl. 400-389.000.
Gabor, Andrew, 4,681,469, Cl. 400-157.200.
Garavuso, Gerald M.; Liang, Shwu-Jian; and Thetta, Raghuinga R., 4,640,504, Cl. 271-113.000.
Garavuso, Gerald M.; and Shinbrot, Troy, 4,693,594, Cl. 355-25.000.
Gooray, Arthur M.; Heeks, George J.; Reale, Louis; and Shah, Dipika R., 4,680,040, Cl. 55-387.000.
Gottwald, Johannes F.; and Gruber, Dennis W., 4,698,567, Cl. 318-480.000.
Grey, Henry G., 4,664,758, Cl. 204-3.000.
Grushkin, Bernard, 4,681,829, Cl. 430-109.000.
Hair, Michael L.; Lok, Kar P.; Ober, Christopher K.; Croucher, Melvin D.; and Wong, Raymond W., 4,680,332, Cl. 524-377.000.
Hair, Michael L.; Lok, Kar P.; and Winnik, Francoise M., 4,705,567, Cl. 106-20.000.
Harrigan, Michael E.; Durbin, John A.; and Schroll, Ross E., 4,701,027, Cl. 350-334.000.
Hartmann, George C., 4,707,112, Cl. 355-10.000.
Harvey, Raymond A., 4,681,312, Cl. 271-207.000.
Hauser, Oscar G., 4,697,914, Cl. 355-3.0DD.
Hecht, David L., 4,673,953, Cl. 346-108.000.
Henry, Arnold W., 4,711,818, Cl. 428-421.000.
Herbert, William G., Jr.; Grey, Henry G.; and Reynolds, Bruce C., 4,678,691, Cl. 428-36.000.
Hinton, John H.; Nau, Keith A.; and Budnik, Roger W., 4,699,497, Cl. 355-14.00E.
Hoevel, Marilyn K., 4,655,716, Cl. 434-267.000.
Holman, Robert L., 4,640,736, Cl. 156-603.000.

Horgan, Anthony M.; LaFrance, Alfred T.; Wieloch, Francis J.; and Yu, Robert C. U., 4,664,995, Cl. 430-59.000.
Hoyer, August, 4,662,625, Cl. 271-272.000.
Hsieh, Robert C., 4,638,369, Cl. 358-283.000.
Hubble, Fred F., III; Bullock, Randolph H.; Cheung, Li-Fung; Crumrine, Robert E.; Martin, James P.; White, Peter P.; and Zomorrodi, Mehrdad, 4,670,647, Cl. 250-214.0AG.
Huggins, Raymond W.; and Shoemaker, Ralph A., 4,638,986, Cl. 271-98.000.
Huggins, Raymond W., 4,687,925, Cl. 250-223.00R.
Jansen, Frank; Mort, Joseph; Morgan, Michael A.; Grammatica, Steven J.; and Knights, John C., 4,634,647, Cl. 430-84.000.
Jansen, Frank; and Mort, Joseph, 4,634,648, Cl. 430-84.000.
Jeromin, Lothar S.; and Noon, Richard E., 4,662,313, Cl. 118-691.000.
Kadekodi, Narayan S.; Ibrahim, Abd-El-Fattah A.; Handy, Roland J.; and Tandon, Jagdish C., 4,712,137, Cl. 358-213.290.
Kang, Henry R., 4,659,382, Cl. 106-22.000.
Kazan, Benjamin, 4,660,938, Cl. 350-355.000.
Kermisch, Dorian, 4,637,057, Cl. 382-46.000.
Kershaw, Ian G., 4,638,988, Cl. 271-171.000.
Kingsland, David O.; Schwartz, Edward A.; and Mestnik, Joseph G., 4,666,293, Cl. 355-75.000.
Knapp, John F.; and Gruber, Robert J., 4,634,649, Cl. 430-109.000.
Knapp, John F.; Gruber, Robert J.; Floyd, Lawrence, Jr.; Bolte, Steven B.; and Swales, Michael G., 4,695,524, Cl. 430-32.000.
Kowalski, Daniel C.; and Bloomberg, Dan S., 4,652,737, Cl. 250-201.000.
Kurtz, Robert L.; and Whining, John F., 4,655,578, Cl. 355-3.00R.
Laing, John R.; Zimmer, C. D.; Maniar, Deepak R.; and Williams, Meurig W., 4,678,734, Cl. 430-137.000.
Lama, William L.; and Harrigan, Michael E., 4,696,545, Cl. 350-167.000.
Lama, William L.; and Loce, Robert P., 4,707,122, Cl. 355-71.000.
Lang, Joseph H., 4,716,436, Cl. 355-3.0CH.
Langdon, Michael J., 4,708,460, Cl. 355-10.000.
Law, Kock-Yee; and Bailey, Frank C., 4,644,082, Cl. 564-307.000.
Law, Kock-Yee; and Wescott, James M., 4,713,307, Cl. 430-57.000.
Law, Simon M.; Watteyne, Thierry L.; and Tran, Dung N., 4,667,179, Cl. 340-347.0DA.
Law, Simon M.; and Ngo, Thien M., 4,686,396, Cl. 307-473.000.
Lin, Ying-wei, 4,639,115, Cl. 355-3.0DD.
Lin, Ying-wei, 4,705,387, Cl. 355-15.000.
Link, Edward P.; and Kerwawycz, John P., 4,698,123, Cl. 156-634.000.
Loce, Robert P.; and Deibler, Melvin E., 4,653,901, Cl. 355-71.000.
Loce, Robert P.; and Deibler, Melvin E., 4,678,311, Cl. 355-1.000.
Loce, Robert P.; Rees, James D.; and Durbin, John A., 4,692,015, Cl. 355-1.000.
Looney, John H., 4,639,121, Cl. 355-14.00R.
Looney, John H., 4,712,786, Cl. 271-207.000.
Looschen, Floyd W., 4,673,811, Cl. 250-235.000.
Lu, Chin H., 4,647,522, Cl. 430-110.000.
Lu, Chin H.; and Baron, Seymour, 4,654,175, Cl. 260-501.150.
Mahalek, Thomas L.; and Santo, David R., 4,659,641, Cl. 430-137.000.
Mailloux, Louis D.; and Waldron, Brian L., 4,661,859, Cl. 358-283.000.
Malhotra, Shadi L., 4,678,687, Cl. 427-261.000.
Malhotra, Shadi L., 4,701,367, Cl. 428-216.000.
Manno, Eugene J., 4,688,926, Cl. 355-3.0DD.
Manno, Eugene J., 4,690,540, Cl. 355-3.0DD.
Martin, Russel A.; and Buhler, Steven A., 4,680,605, Cl. 357-23.110.
Massie, Mark A.; and Rhodes, Christopher C., 4,679,928, Cl. 355-3.0DD.
McAneney, T. Brian; Loutfy, Rafik O.; Mammino, Joseph; Nichol-Landry, Deborah J.; and Sypula, Donald S., 4,711,833, Cl. 430-131.000.
McIntyre, Harry J., 4,656,361, Cl. 250-578.000.
Miazga, Dennis E.; and Petery, James J., 4,691,317, Cl. 371-20.000.
Miller, William G., 4,684,240, Cl. 355-14.00R.
Milton, Derek J., 4,673,280, Cl. 355-3.0CH.
Mishra, Satchidanand; and Teuscher, Leon A., 4,634,756, Cl. 528-78.000.
Mishra, Satchidanand; and Teuscher, Leon A., 4,639,402, Cl. 430-58.000.
Mishra, Satchidanand, 4,687,319, Cl. 355-10.000.
Modugno, Joseph J.; and Klimley, William R., 4,635,916, Cl. 271-3.000.
Mort, Joseph, 4,698,288, Cl. 430-58.000.
Nye, Leroy M., Jr.; and Pike, Thomas W., 4,639,124, Cl. 355-15.000.
Ober, Christopher K.; and Lok, Kar P., 4,652,508, Cl. 430-109.000.
Ober, Christopher K.; and Branston, Randolph E., 4,692,188, Cl. 106-23.000.
O'Brien, John F., 4,660,059, Cl. 346-157.000.
Olsen, Alf J., 4,678,354, Cl. 400-335.000.
Ong, Beng S.; and Mychajlowskij, Walter, 4,645,727, Cl. 430-106.000.
Pai, Damodar M.; and DeFeo, Paul J., 4,663,258, Cl. 430-57.000.
Pai, Damodar M.; and Kuhn, Edwin R., 4,666,806, Cl. 430-57.000.
Pease, Donald L., 4,639,122, Cl. 355-15.000.
Pease, Donald L., 4,653,894, Cl. 355-1.000.
Pimintel, Antone, 4,662,767, Cl. 400-616.200.
Pirwitz, Robert G.; and Webb, John L., 4,689,471, Cl. 219-216.000.
Popovic, Zoran D.; Sprague, Robert A.; and Connell, G. A. Neville, 4,689,291, Cl. 430-321.000.
Quate, Calvin F.; and Khuri-Yakub, Butrus T., 4,697,195, Cl. 346-140.00R.
Radulski, Charles A.; and Till, Henry R., 4,680,539, Cl. 355-3.0TR.
Rawson, Eric G.; and Stewart, Lawrence C., 4,687,284, Cl. 350-96.160.
Reale, Louis, 4,646,196, Cl. 361-230.000.
Redding, Thomas P.; and Barker, Laurence S., 4,640,602, Cl. 355-3.0SH.
Rezanka, Ivan, 4,658,269, Cl. 346-75.000.
Roberts, Allen M.; Sangster, Andrew; and Stroll, Zoltan, 4,706,077, Cl. 340-728.000.
Roller, George J., 4,678,176, Cl. 271-94.000.
Rowe, Paul J., 4,666,282, Cl. 355-3.0DD.
Russell, James P.; Faull, Ralph G.; and Buchar, Wayne A., 4,647,184, Cl. 355-14.00C.
Scarlata, Richard F., 4,707,215, Cl. 156-578.000.
Schenk, Richard C., 4,673,176, Cl. 271-186.000.
Schmidlin, Fred W., 4,647,179, Cl. 355-3.0DD.
Scifres, Donald R.; and Sprague, Robert A., 4,656,641, Cl. 372-103.000.
Scifres, Donald R.; and Burnham, Robert D., 4,675,709, Cl. 357-17.000.
Seanor, Donald A., 4,641,956, Cl. 355-15.000.
Sheridan, Nicholas K.; and Sander, Gerhard K., 4,644,373, Cl. 346-159.000.
Sheriff, David R., 4,649,445, Cl. 360-99.000.
Shinbrot, Troy, 4,663,873, Cl. 40-531.000.
Shinbrot, Troy, 4,673,286, Cl. 355-25.000.
Shinbrot, Troy; and Kuo, Youti, 4,707,113, Cl. 355-14.0SH.
Shino, Satoshi; Sasahara, Akira; Ishikawa, Kiyoshi; Shibasaki, Shigeru; and Takashino, Shinji, 4,660,820, Cl. 271-9.000.
Shogren, David K., 4,673,285, Cl. 355-23.000.
Sidvers, John; and Hume, James G., 4,650,357, Cl. 400-208.000.
Silverberg, Morton, 4,666,144, Cl. 271-270.000.
Smith, Thomas W.; Ward, Anthony T.; Luca, David J.; and Johnson, Gordon E., 4,638,335, Cl. 346-135.100.
Solcz, Edward J.; Domoto, Gerald A.; and Wolf, Barry M., 4,691,212, Cl. 346-108.000.
Sosinski, Ronald T.; Lu, Chi-Chang; and Maksymiak, John, 4,669,853, Cl. 355-3.0SH.
Spinelli, Richard A.; Costanza, Daniel W.; Statt, William L.; and Glab, Edwin F., 4,669,857, Cl. 355-8.000.
Sprague, Robert A.; and Urbach, John C., 4,663,738, Cl. 365-127.000.
Stemmle, Denis J., 4,660,963, Cl. 355-24.000.
Stemmle, Denis J., 4,687,191, Cl. 270-53.000.
Stemmle, Denis J., 4,708,462, Cl. 355-24.000.
Stemmle, Denis J., 4,708,468, Cl. 355-72.000.
Stemmle, Denis J., 4,712,787, Cl. 271-187.000.
Stephany, Joseph F., 4,691,200, Cl. 340-784.000.
Stoffel, James C.; and Tandon, Jagdish C., 4,690,391, Cl. 269-21.000.
Stoffel, James C.; and Tandon, Jagdish C., 4,712,018, Cl. 250-578.000.
Swanberg, Melvin E., 4,635,000, Cl. 331-10.000.
Swanberg, Melvin E., 4,663,523, Cl. 250-235.000.
Swanberg, Melvin E., 4,694,156, Cl. 250-214.0RC.
Swift, Joseph A., 4,706,320, Cl. 15-1.50R.
Tandon, Jagdish C.; and Araghi, Mehdi N., 4,668,333, Cl. 156-633.000.
Tandon, Jagdish C.; and Aragin, Mehdi N., 4,695,716, Cl. 250-211.00R.
Temes, Gabor C.; and Wang, Fong J., 4,713,650, Cl. 340-347.0DA.
Thomas, Kendolph A., 4,635,921, Cl. 271-94.000.
Thompson, Michael D.; and Imes, Clifford W., IV, 4,637,340, Cl. 118-657.000.
Thornton, Robert L.; and Burnham, Robert D., 4,706,255, Cl. 372-50.000.
Tihanyi, Peter; and Bauer, Robert S., 4,656,638, Cl. 372-49.000.
Till, Henry R.; Warner, Fredrick A.; and Radulski, Charles A., 4,684,238, Cl. 355-10.000.
Tokoli, Emery G.; and Horgan, Anthony M., 4,665,000, Cl. 430-85.000.
Torpey, Peter A.; and Markham, Roger G., 4,638,337, Cl. 346-140.00R.
Tsao, Chein-Hwa S., 4,688,050, Cl. 346-75.0PH.
Tuan, Hsing C.; and Thompson, Malcolm J., 4,646,163, Cl. 358-300.000.
Tung, Chenshi J.; and Mansueto, John, 4,636,900, Cl. 360-124.000.
Turner, S. Richard; and Yanus, John F., 4,714,779, Cl. 564-330.000.
Turner, William D., 4,636,039, Cl. 350-356.000.
Urso, Charles J., Jr., 4,695,152, Cl. 355-3.00R.
Vineski, John E., 4,650,312, Cl. 355-15.000.
Wallace, Stanley J.; Jedlicka, Josef E.; and Peck, Wilbur M., Jr., 4,641,949, Cl. 355-3.0SH.
Wang, Shing C.; and Hamerdinger, Randolph W., 4,639,926, Cl. 372-87.000.
Weinberger, Joseph; Bricault, Gary S.; Gruber, David; and Rakover, Eleonora, 4,712,907, Cl. 355-7.000.
Wilson, Jack O., 4,716,435, Cl. 355-3.0FU.
Wong, Lam F., 4,637,581, Cl. 248-188.300.
Yanus, John F.; and Limburg, William W., 4,665,231, Cl. 564-307.000.

Yarbrough, Joseph A.; Kingsland, David O.; and Pease, Donald L., 4,693,588, Cl. 355-3.00R.
Yip, Kwok-leung; Araghi, Mehdi N.; Daniele, Joseph J.; Banton, Martin E.; Kramer, Charles J.; and Ritter, Joachim A., 4,639,073, Cl. 350-6.800.
Yip, Kwok-Leung; Antos, Ronald L.; and Herloski, Robert F., 4,686,542, Cl. 346-108.000.
Yu, Robert C. U.; Horgan, Anthony M.; and Wieloch, Francis J., 4,654,284, Cl. 430-59.000.
Zirilli, Michele D., 4,699,369, Cl. 271-94.000.
Xi, La: Pedal mechanism for a bicycle having the pedal crank radially movable therein. 4,706,516, 11-17-87, Cl. 74-594.100.
Xi, Yao: *See*—
Fang, Chang-Shui; Xi, Yao; Chen, Zhi-Xiong; Bhalla, Amar S.; and Cross, Leslie E., 4,648,991, Cl. 252-1.000.
Xianzhi, Chen: *See*—
Yuan, Ren; Xianzhi, Chen; Yuanxi, Feng; Guojiu, Li; Dake, Huang; Yongli, Zhang; and Quanzhong, Sun, 4,701,689, Cl. 322-19.000.
Xiao, Hiong X.: *See*—
Frisch, Kurt C.; Xiao, Hiong X.; and Anagnostou, Taki J., 4,677,029, Cl. 428-423.100.
Xicor, Inc.: *See*—
Dror, Joseph; and Check, William S. J., 4,668,932, Cl. 338-48.000.
Xilinx, Inc.: *See*—
Carter, William S., 4,642,487, Cl. 307-465.000.
Carter, William S., 4,695,740, Cl. 307-242.000.
Carter, William S., 4,706,216, Cl. 365-94.000.
Carter, William S., 4,713,557, Cl. 307-242.000.
XO Industries, Inc.: *See*—
Lesea, Ronald A., 4,672,522, Cl. 363-48.000.
Xolox Corporation: *See*—
Loubier, Robert J.; and Bleeke, William F., 4,691,185, Cl. 338-32.00H.
Xoma Corporation: *See*—
Baldwin, Robert W., 4,708,862, Cl. 424-1.100.
Mielke, C. Harold; Scannon, Patrick J.; Sohmer, Paul R.; and Klock, John C., 4,664,913, Cl. 424-101.000.
Urnovitz, Howard B., 4,698,420, Cl. 530-387.000.
Xomox Corporation: *See*—
Gardner, John F.; and Morton, Gerald H., 4,678,159, Cl. 251-107.000.
Gardner, John F.; and Morton, Gerald H., 4,688,594, Cl. 137-340.000.
Gardner, John F.; and Morton, Gerald H., 4,690,164, Cl. 137-15.000.
Gardner, John F.; and Showalter, Thomas W., 4,715,400, Cl. 137-341.000.
Troutman, Paul H.; Lester, Eddie D.; and Sonderman, William G., 4,663,601, Cl. 335-207.000.
Xonics Imaging, Inc.: *See*—
Wang, Shih-Ping, 4,649,559, Cl. 378-146.000.
Xu-Yi, Zhang; Guangxi, Yue; and Qiayu, Zheng, to Qinghua University. Fluidized bed boiler and high temperature separators used therein. 4,712,514, 12-15-87, Cl. 122-4.00D.
Xytec Plastics, Inc.: *See*—
Gyenge, Andrew; Johnson, Michael D.; and Malmanger, John A., 4,674,647, Cl. 220-6.000.
Xyvision, Inc.: *See*—
Cheek, Thomas B.; and Bourdin, Christian, 4,675,833, Cl. 364-523.000.
Y. S. Securities Limited: *See*—
Oakes, Martin C., 4,692,733, Cl. 337-158.000.
Ya-man Ltd.: *See*—
Yamazaki, Iwao; Nakamichi, Yuji; Abe, Keizo; and Okudera, Tatsuya, 4,682,221, Cl. 358-107.000.
Yaakobi, Barukh, to University of Rochester, The. X-ray lithography. 4,665,541, 5-12-87, Cl. 378-34.000.
Yaard-Vark Corporation: *See*—
Benson, James A., 4,667,436, Cl. 43-132.100.
Yabana, Hideo: *See*—
Nakai, Hideo; Wada, Hiroshi; Nagao, Taku; and Yabana, Hideo, 4,689,327, Cl. 514-252.000.
Yabe, Hideaki; Oshima, Yoshio; Ishikawa, Sako; Ohtsuki, Toru; and Fukuta, Masaharu, to Hitachi, Ltd. Binary coded decimal number division apparatus. 4,635,220, 1-6-87, Cl. 364-763.000.
Yabe, Hideaki: *See*—
Ohtsuki, Toru; Oshima, Yoshio; Ishikawa, Sako; Yabe, Hideaki; and Fukuta, Masaharu, 4,677,583, Cl. 364-756.000.
Yabe, Hideo: *See*—
Suzuki, Yoshio; Sonoda, Hirotetu; and Yabe, Hideo, 4,674,587, Cl. 180-142.000.
Suzuki, Yoshio; Sonoda, Hirotetu; and Yabe, Hideo, 4,681,184, Cl. 180-141.000.
Takeshima, Sadao; and Yabe, Hideo, 4,702,334, Cl. 180-142.000.
Yabe, Hisao, to Olympus Optical Co., Ltd. Endoscope apparatus. 4,641,635, 2-10-87, Cl. 128-6.000.
Yabe, Hisao, to Olympus Optical Co., Ltd. Biopsy information recording apparatus for endoscope. 4,654,701, 3-31-87, Cl. 358-98.000.
Yabe, Hisao, to Olympus Optical Co., Ltd. Endoscope apparatus having nozzle angularly positioned image sensor. 4,667,656, 5-26-87, Cl. 128-6.000.
Yabe, Hisao: *See*—
Toda, Masato; and Yabe, Hisao, 4,708,126, Cl. 128-6.000.
Yabe, Hisashi: *See*—
Shintani, Yasuo; Sakuma, Kazuhiro; Yabe, Hisashi; and Ito, Hirohito, 4,658,647, Cl. 73-517.00B.
Yabe, Kiyoshi; and Onuma, Akiyoshi, to Mitsubishi Denki Kabushiki Kaisha. Spring operating mechanism for a circuit interrupter. 4,705,144, 11-10-87, Cl. 185-40.00R.
Yabe, Kiyoshi: *See*—
Kondo, Tadashi; and Yabe, Kiyoshi, 4,681,993, Cl. 200-153.08C.
Yabe, Masao: *See*—
Ochiai, Takeji; Ohara, Shunichiro; and Yabe, Masao, 4,663,276, Cl. 430-272.000.
Tani, Yoshio; Yabe, Masao; and Naruo, Kyuichi, 4,688,543, Cl. 346-137.000.
Yabe, Masaya: *See*—
Seki, Yasukazu; Sato, Noritada; and Yabe, Masaya, 4,692,762, Cl. 357-29.000.
Yabe, Norio: *See*—
Mino, Hisashi; Yabe, Norio; and Iijima, Takeshi, 4,670,371, Cl. 430-143.000.
Yabe, Shirouji: *See*—
Yamaguchi, Toshiaka; and Yabe, Shirouji, 4,671,127, Cl. 74-89.15J.
Yabe, Tomoyoshi, to Suminoe Textile Co., Ltd. Apparatus for dyeing a web of fabric continuously. 4,648,250, 3-10-87, Cl. 68-5.00D.
Yabe, Yoshiharu. Foldup paper container. 4,688,673, 8-25-87, Cl. 206-387.000.
Yabe, Yuhiko: *See*—
Kitabataka, Shoichi; Yabe, Yuhiko; and Ami, Kazuhiko, 4,666,361, Cl. 414-680.000.
Yabe, Yuichiro: *See*—
Matsueda, Rei; Yabe, Yuichiro; Yamazaki, Mitsuo; Kokubu, Tatsuo; and Hiwada, Kunio, 4,698,329, Cl. 514-18.000.
Yabe, Yukihiko: *See*—
Suzuki, Seigo; Yabe, Yukihiko; and Kawakami, Masumi, 4,692,640, Cl. 307-464.000.
Yabe, Yuta; Watanabe, Takamichi; and Suzuki, Hisayuki, to Nippon Chemicals Co., Ltd. Method for the production of α-aryl-alkanoic acid. 4,670,586, 6-2-87, Cl. 562-466.000.
Yabu, Masatomo: *See*—
Ibori, Satoshi; Shimotu, Tadao; and Yabu, Masatomo, 4,689,542, Cl. 318-778.000.
Yabu, Shuichi, to Canon Kabushiki Kaisha. Apparatus and method for aligning objects. 4,662,753, 5-5-87, Cl. 356-401.000.
Yabu, Yasuo; Abiko, Toshio; and Matsuo, Masayuki, to Matsushita Electric Works, Ltd. Microwave plane antenna. 4,679,051, 7-7-87, Cl. 343-700.0MS.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat developable photosensitive material. 4,639,418, 1-27-87, Cl. 430-617.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat developable light-sensitive material. 4,640,891, 2-3-87, Cl. 430-551.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat-developable light-sensitive material. 4,649,103, 3-10-87, Cl. 430-570.000.
Yabuki, Yoshiharu; Sato, Kozo; Kawata, Ken; and Hirai, Hiroyuki, to Fuji Photo Film Co., Ltd. Heat developable light-sensitive material. 4,716,100, 12-29-87, Cl. 430-570.000.
Yabuki, Yoshiharu: *See*—
Hirai, Hiroyuki; Sato, Kozo; Yabuki, Yoshiharu; and Kawata, Ken, 4,705,737, Cl. 430-203.000.
Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,636,462, Cl. 430-617.000.
Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,640,892, Cl. 430-617.000.
Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,647,526, Cl. 430-353.000.
Kawata, Ken; Yabuki, Yoshiharu; Sato, Kozo; and Hirai, Hiroyuki, 4,653,615, Cl. 430-617.000.
Sato, Kazo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,659,653, Cl. 430-559.000.
Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,650,749, Cl. 430-617.000.
Sato, Kozo; Yabuki, Yoshiharu; Hirai, Hiroyuki; and Kawata, Ken, 4,657,848, Cl. 430-617.000.
Yabuki, Yoshiro: *See*—
Abe, Shuro; Yabuki, Yoshiro; Takamatsu, Yasuhiko; Yamaguchi, Takayuki; Ohta, Masatoshi; and Nakamura, Eiji, 4,651,164, Cl. 346-76.0PH.
Yabumoto, Seiichi, to Nippon Kogaku K. K. Picture signal generating apparatus. 4,710,816, 12-1-87, Cl. 358-213.150.
Yabunaka, Kiyoshi, to Mitsubishi Denki Kabushiki Kaisha. Engine starter with a planetary reduction gear. 4,671,125, 6-9-87, Cl. 74-7.00E.
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Morishita, Mitsuharu; and Yabunaka, Kiyoshi, 4,668,871, Cl. 290-36.00R.
Yabuno, Ryohei: *See*—
Ishii, Masami; Motoyama, Hiroshi; Yabuno, Ryohei; and Isomura, Akihito, 4,653,165, Cl. 29-159.00R.
Masumoto, Tsuyoshi; Inoue, Akihisa; Oka, Tetsuo; Ishii, Masami; Motoyama, Hiroshi; and Yabuno, Ryohei, 4,655,079, Cl. 73-295.000.
Yabushita, Masaharu; Nohmi, Makoto; Fujikura, Nobuyuki; Miyamoto, Shoji; and Ihara, Hirokazu, to Hitachi, Ltd. Bus control method and apparatus. 4,641,237, 2-3-87, Cl. 364-200.000.
Yabushita, Yasunori; and Tasugi, Kunihiko, to Unitika Ltd. Intravenous nutrient. 4,696,916, 9-29-87, Cl. 514-25.000.

Yabuta, Fumihiko: *See*—
Yamashina, Naotoshi; and Yabuta, Fumihiko, 4,652,324, Cl. 156-242.000.

Yabuuchi, Takahiro: *See*—
Fujimura, Hajime; Hiramaru, Yasuzo; Yabuuchi, Takahiro; Hisaki, Masakatu; Takikawa, Katsuo; Honna, Takaji; Miyake, Hidekazu; and Kajitani, Makoto, 4,666,911, Cl. 514-255.000.

Yabuuchi, Toshihiko: *See*—
Endo, Shyusuke; Aoyama, Naofumi; Yabuuchi, Toshihiko; Sakuma, Toshiyuki; and Kinugawa, Kiyoshige, 4,701,025, Cl. 350-333.000.
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Yac Co., Limited: *See*—
Azegami, Osamu; and Miyake, Toshifumi, 4,693,378, Cl. 209-586.000.

Yacaboni, Joseph D.: Dome-shaped building structure. 4,663,898, 5-12-87, Cl. 52-82.000.

Yachida, Yoichi; and Yoneyama, Masaya, to Nippon Seiki Corporation. Pulse counting and pulse rate indicating device responsive to abrupt pulse rate change to accurately indicate current rate. 4,648,104, 3-3-87, Cl. 377-54.000.

Yachigo, Shinichi: *See*—
Maegawa, Yuzo; Takahashi, Yukoh; Okino, Eizo; Kaneoya, Tatsuo; Okamura, Haruki; Yachigo, Shinichi; and Ishii, Tamaki, 4,670,488, Cl. 524-103.000.
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Yacisin, Paul A., to Jennmar Corporation. Roof bolt apparatus with expansion shell and coupling. 4,679,966, 7-14-87, Cl. 405-261.000.

Yackiw, Charles, to Schlegel Corporation. Weatherseal. 4,656,785, 4-14-87, Cl. 49-495.000.

Yacobucci, Paul D.: and Albano, Thomas, to Eastman Kodak Company. Crosslinked polymers with lowered resistivity and materials and methods for their preparation. 4,698,391, 10-6-87, Cl. 525-162.000.

Yacoe, J. Craig: Polyhedral structures that approximate a sphere. 4,679,361, 7-14-87, Cl. 52-81.000.

Yacovella, Thomas R., to Utica Duxbak Corporation. Bark camouflage cloth and outer garments. 4,656,065, 4-7-87, Cl. 428-17.000.

Yada, Akira: Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, to Dai-Ichi Kogyo Seiyaku Co., Ltd. Process for preparing water-soluble polymers. 4,647,598, 3-3-87, Cl. 522-3.000.

Yada, Akira; Matsumoto, Shusaku; Kawamori, Yoshihiro; Saito, Takao; Nishiyama, Tadashi; and Adachi, Yoshitugu, to Dai-Ichi Kogyo Seiyaku Co., Ltd. Process for preparing water-soluble polymer gel particles. 4,690,788, 9-1-87, Cl. 264-22.000.

Yada, Hiroaki: Imakoshi, Shigeyoshi; Suyama, Hideo; Sekiya, Tetsuo; and Nakayama, Masayuki, to Sony Corporation. Tracking servo system for disc memory. 4,701,815, 10-20-87, Cl. 360-77.000.

Yada, Isao: *See*—
Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,642,448, Cl. 219-216.000.
Shigemura, Yutaka; Kimura, Hiroshi; Hisajima, Masahiko; Yada, Isao; Satonaka, Shinobu; and Kaminaga, Seiji, 4,650,347, Cl. 374-141.000.
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Yadegar, George; and Aframian, Parvaneh Y. Vehicular sunshade. 4,671,334, 6-9-87, Cl. 160-84.00R.

Yadlosky, John M.: *See*—
Kim, Jai B.; and Yadlosky, John M., 4,691,399, Cl. 14-2.000.

Yaeda, Shigeru, to Advantest Corporation. Timing generating device. 4,657,406, 4-14-87, Cl. 368-120.000.

Yaegashi, Masayuki: *See*—
Doi, Hachiro; and Yaegashi, Masayuki, 4,706,446, Cl. 56-295.000.

Yaegashi, Takehisa: *See*—
Hanafusa, Tooru; Kinugasa, Yukio; and Yaegashi, Takehisa, 4,700,681, Cl. 123-478.000.

Yaegasi, Takasi: *See*—
Maeda, Hironobu; Kitahara, Seizaburo; Yosimura, Haruo; Torawaki, Takao; Yaegasi, Takasi; and Yamaoka, Isao, 4,677,934, Cl. 118-58.000.

Yaeger, Ivan: Artificial arm and hand assembly. 4,685,928, 8-11-87, Cl. 623-64.000.

Yaeger, John R., to Raychem Corporation. Slider lifter. 4,684,913, 8-4-87, Cl. 337-140.000.

Yaeger, John R.: *See*—
Baum, Samuel; and Yaeger, John R., 4,713,643, Cl. 337-140.000.

Yaffe, Martin J., to Ontario Cancer Institute, The. Anthropomorphic phantoms. 4,638,502, 1-20-87, Cl. 378-207.000.

Yagami, Hiroyuki: *See*—
Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, 4,701,659, Cl. 310-334.000.
Fujii, Tadashi; Yagami, Hiroyuki; Seo, Iwao; and Sasaki, Masahiro, 4,704,774, Cl. 29-25.350.

Yagan, Erse: Pedal driven device. 4,676,755, 6-30-87, Cl. 440-26.000.

Yagasaki, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Helmet device. 4,633,532, 1-6-87, Cl. 2-424.000.

Yagasaki, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Power-driven stand device for motorcycles. 4,651,845, 3-24-87, Cl. 180-219.000.

Yagasaki, Akio, to Honda Giken Kogyo Kabushiki Kaisha. Main stand device for two-wheeled motorcycle. 4,660,847, 4-28-87, Cl. 280-298.000.

Yagasaki, Akio; and Marishima, Kazuo, to Honda Giken Kogyo Kabushiki Kaisha. Windshield adjustment device. 4,696,509, 9-29-87, Cl. 296-84.00A.

Yagasaki, Akio: *See*—
Kouyama, Mikihiro; and Yagasaki, Akio, 4,671,374, Cl. 180-219.000.

Yagasaki, Eriko; Kanda, Motoya; Mitsuyasu, Kiyoshi; and Sato, Yuji, to Kabushiki Kaisha Toshiba. Rechargeable electrochemical cell with a negative electrode comprising a hydrogen absorbing alloy including rare earth component. 4,696,873, 9-29-87, Cl. 429-59.000.

Yagasaki, Toshiaki; Kuroda, Kouki; and Inuzuka, Tsuneki, to Canon Kabushiki Kaisha. Recording apparatus. 4,656,338, 4-7-87, Cl. 219-497.000.

Yagasaki, Toshiaki; Masuda, Shunichi; and Sato, Yukio, to Canon Kabushiki Kaisha. Program controlled image forming apparatus. 4,669,862, 6-2-87, Cl. 355-14.00R.

Yagasaki, Toshiaki: *See*—
Inoue, Yutaka; Kurata, Mitsuru; Kasama, Nobuhiro; Hosaka, Masao; Yagasaki, Toshiaki; Tanioka, Hiroshi; and Yamakawa, Tadashi, 4,714,940, Cl. 355-3.00R.
Shimizu, Katsuichi; Masuda, Shunichi; Yagasaki, Toshiaki; and Sakamaki, Hisashi, 4,638,368, Cl. 358-256.000.
Tanioka, Hiroshi; Yamakawa, Tadashi; Inoue, Yutaka; Hosaka, Masao; Yagasaki, Toshiaki; Kasama, Nobuhiro; and Kurata, Mitsuru, 4,646,249, Cl. 364-518.000.

Yagata, Yukihiro, to Hitachi Medical Corporation. Ultrasonic applicator, 4,635,644, 1-13-87, Cl. 128-660.000.

Yager, James R. Signaling apparatus for mailboxes. 4,702,411, 10-27-87, Cl. 232-35.000.

Yaghjian, Arthur D.: *See*—
Poirier, J. Leon; and Yaghjian, Arthur D., 4,704,614, Cl. 343-703.000.

Yaghmaie, Farrokh; Najjar, Mitri S.; and Sorell, Louis S., to Texaco Inc. Process for separating clarified water from an aqueous dispersion of ash, slag and char particulate matter. 4,705,537, 11-10-87, Cl. 48-197.00R.

Yagi, Akira; and Shimada, Tatsuro, to Bridgestone Corporation. Passenger car pneumatic tire excellent in cornering stability. 4,662,416, 5-5-87, Cl. 152-209.00R.

Yagi, Akira: *See*—
Ohmori, Susumu; Yagi, Akira; and Takase, Satoshi, 4,652,282, Cl. 55-155.000.

Yagi, Harumi, to Fujitsu Limited. Twin wire splitter system. 4,691,855, 9-8-87, Cl. 228-4.500.

Yagi, Hirosato: *See*—
Yaetano, Masaru; Kuwano, Yukinori; Nakano, Shoichi; Matsuoka, Tsugufumi; Sakai, Souichi; Yagi, Hirosato; and Okuda, Nobuhiro, 4,670,293, Cl. 427-39.000.

Yagi, Isaburo: *See*—
Hyodo, Masakatsu; and Yagi, Isaburo, 4,681,783, Cl. 428-36.000.
Ohtsuga, Hisae; Morinaga, Akio; Sakaguchi, Yoichi; Hyodo, Masakatsu; and Yagi, Isaburo, 4,684,556, Cl. 428-36.000.

Yagi, Junosuke: *See*—
Yagi, Sigenori; and Yagi, Junosuke, 4,665,731, Cl. 72-307.000.

Yagi, Junsuke: *See*—
Ono, Kouichi; Nishida, Masashi; Yagi, Junsuke; and Ohshima, Iwao, 4,683,128, Cl. 423-338.000.

Yagi, Katsumi, to Sanyo Electric Co., Ltd. Semiconductor laser with a quantum well layer including a disordered region. 4,680,768, 7-14-87, Cl. 372-45.000.

Yagi, Katsunori: *See*—
Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, 4,653,451, Cl. 123-489.000.
Kobayashi, Nobuyuki; Hattori, Takashi; Yagi, Katsunori; and Ito, Toshimitsu, 4,713,766, Cl. 364-431.050.

Yagi, Kazuyuki, to Hewlett-Packard Company. Phase detection method. 4,654,585, 3-31-87, Cl. 324-83.00Q.

Yagi, Kenji: *See*—
Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo; Yoshida, Ichirou; and Atsumi, Morihiro, 4,681,989, Cl. 200-19.00R.
Yoshida, Ichirou; Atsuru, Morihiro; Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo; and Yamada, Manabu, 4,640,996, Cl. 200-19.00R.

Yagi, Kunihiro: *See*—
Munakata, Chusuke; Yagi, Kunihiro; Miyazaki, Masaru; and Yoneda, Shiyouzou, 4,672,578, Cl. 365-118.000.
Nomoto, Yoshitaka; Yamauchi, Hirofumi; Sakurai, Shigeru; Ohkubo, Kenji; Kurita, Hideaki; and Yagi, Kunihiro, 4,665,690, Cl. 60-286.000.

Yagi, Kunio: *See*—
Kurono, Masayasu; Iida, Takafumi; Hayashi, Katsuhiro; and Yagi, Kunio, 4,656,303, Cl. 558-354.000.

Yagi, Masaru, to Kitagawa Industries Co., Ltd. Substrate fastener. 4,635,325, 1-13-87, Cl. 24-453.000.

Yagi, Masaru, to Kitagawa Industries Co., Ltd. Substrate fastener. 4,635,326, 1-13-87, Cl. 24-453.000.

Yagi, Masaru, to Kitagawa Industries Co., Ltd. Device for fixing electronic display. 4,650,267, 3-17-87, Cl. 339-17.0CF.

Yagi, Masaru, to Kitagawa Industries Co., Ltd. Light emitting diode holder. 4,667,270, 5-19-87, Cl. 361-380.000.

Yagi, Masaru, to Kitagawa Industries Co., Ltd. Fixation device for electronic display. 4,684,093, 8-4-87, Cl. 248-201.000.

Yagi, Masaru: *See*—
Matsui, Kazuhiro; and Yagi, Masaru, 4,646,995, Cl. 248-56.000.

Yagi, Misao: *See*—
Otsuka, Seinosuke; Tari, Kazuhide; Yamagata, Tsuneaki; Akutagawa, Susumu; Kumobayashi, Hidenori; and Yagi, Misao, 4,695,631, Cl. 544-170.000.

Yagi, Motoi; and Miyabayashi, Tadao, to Tokyo Electric Co., Ltd. Processing circuit for television sync signals produced from a recording medium for performing a non-interlaced display. 4,675,752, 6-23-87, Cl. 360-10.100.

Yagi, Motoi; and Miyabayashi, Tadao, to Tokyo Electric Co., Ltd. Television composite video signal processing circuit. 4,680,631, 7-14-87, Cl. 358-160.000.

Yagi, Naoki; Kim, Kwang Y.; and Nakaji, Tarushige, to Minaminihon Rakuno Kyodo Kabushiki Kaisha. Process for producing gluten having high solubility. 4,650,856, 3-17-87, Cl. 530-363.000.

Yagi, Naoki; Kim, Kwang Y.; and Nakaji, Tarushige, to Minaminihon Rakuno Kyodo Kabushiki Kaisha. Process for preparing heat resistant milk protein having good processability. 4,656,041, 4-7-87, Cl. 426-276.000.

Yagi, Naoki; Kim, Kwang Y.; and Nakaji, Tarushige, to Minaminihon Rakuno Kyodo Kabushiki Kaisha. Process for preparing milk protein resistant to acids and bases. 4,656,046, 4-7-87, Cl. 426-657.000.

Yagi, Nobuyuki: *See*—
Murakami, Keinosuke; Enami, Kazumasa; and Yagi, Nobuyuki, 4,673,980, Cl. 358-149.000.

Yagi, Osamu: *See*—
Shimizu, Shumpei; Cho, Toshitsura; and Yagi, Osamu, 4,634,509, Cl. 204-182.400.

Yagi, Sakai: *See*—
Endo, Takayoshi; Sugiyama, Toshimasa; Murofushi, Satoru; and Yagi, Sakai, 4,648,673, Cl. 339-97.00R.

Yagi, Shigeichi; and Shigeura, Junichi, to Mitsubishi Denki Kabushiki Kaisha. Method of controlling the mode of driving electric vehicles. 4,709,194, 11-24-87, Cl. 318-52.000.

Yagi, Shigeo: *See*—
Sonoyama, Takayasu; Yagi, Shigeo; and Kageyama, Bunji, 4,696,897, Cl. 435-42.000.

Yagi, Shinichi: *See*—
Matsubara, Saburo; and Yagi, Shinichi, 4,680,154, Cl. 264-63.000.

Yagi, Shizuo; Hirosawa, Yoshiaki; Kawai, Makoto; and Fujii, Isao, to Honda Giken Kogyo Kabushiki Kaisha. Ignition timing control system for internal combustion engines. 4,694,799, 9-22-87, Cl. 123-425.000.

Yagi, Shizuo; Kawai, Makoto; and Yamamoto, Yorihisa, to Honda Giken Kogyo Kabushiki Kaisha. Uncertainty detector in feed-back control system based on combustion peak position data for internal combustion engine and ignition timing control having particular detector. 4,709,678, 12-1-87, Cl. 123-425.000.

Yagi, Sigenori; and Yagi, Junosuke, to Sinsei Mfg. Co., Ltd. Bending apparatus. 4,665,731, 5-19-87, Cl. 72-307.000.

Yagi, Takashi; Horii, Yoshiharu; and Domoto, Yasuo, to Tokyo Electric Co., Ltd. Ribbon shifting device for a printing apparatus. 4,697,942, 10-6-87, Cl. 400-208.000.

Yagi, Takuro: *See*—
Sauda, Kenzo; Yokota, Akitoshi; Yagi, Takuro; Kuribayashi, Hiroshi; Kita, Saburo; Shibata, Setsuo; and Ogawa, Hirofusa, 4,661,290, Cl. 252-626.000.

Yagi, Tetsuya: *See*—
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Tamura, Naoyuki; Nakanishi, Hiroshi; Yagi, Tetsuya; and Kuroiwa, Shintaro, 4,664,829, Cl. 252-52.00R.
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Yagi, Tetsuya; and Nakanishi, Hiroshi, 4,711,732, Cl. 252-28.000.

Yagi, Toshiaki: *See*—
Moriyama, Masao; Ohta, Masahiro; Yagi, Toshiaki; and Kawano, Kazuhiro, 4,702,257, Cl. 128-653.000.

Yagi, Toshiharu, to NEC Corporation. Viterbi decoder comprising a majority circuit in producing a decoded signal. 4,715,037, 12-22-87, Cl. 371-43.000.

Yagi, Toshiharu: *See*—
Enjo, Naonori; Yagi, Toshiharu; and Kagami, Masato, 4,664,846, Cl. 252-511.000.
Sako, Junichi; and Yagi, Toshiharu, 4,636,331, Cl. 252-511.000.

Yagi, Toshihiko; Yamazaki, Katsumasa; Michiue, Kenji; Mochizuki, Yoshiharu; and Goto, Sohei, to Konishiroku Photo Industry Co., Ltd. Multilayer multi-color photographic material. 4,686,176, 8-11-87, Cl. 430-506.000.

Yagi, Toshihiko: *See*—
Michiue, Kenji; Yagi, Toshihiko; Yamazaki, Katsumasa; Goto, Sohei; and Mochizuki, Yoshiharu, 4,670,375, Cl. 430-509.000.
Mochizuki, Yoshihara; Goto, Sohei; Yagi, Toshihiko; Yamazaki, Katsumasa; and Michiue, Kenji, 4,639,410, Cl. 430-506.000.

Yagi, Toshio: *See*—
Endo, Hiroshi; Yagi, Toshio; Tanaka, Masahiro; and Suzuki, Takanori, 4,689,351, Cl. 521-60.000.

Yagi, Toshiro; and Sumida, Kiyomi, to Mazda Motor Corporation. Method for determining piston form for an internal combustion engine. 4,656,711, 4-14-87, Cl. 29-156.50R.

Yagi, Yoshio: *See*—
Gojo, Tomomi; Yagi, Yoshio; and Izumi, Tsunetada, 4,695,834, Cl. 340-734.000.

Yagi, Youichi, to Nissan Motor Co., Ltd. Shift shock alleviating apparatus and method for automatic transmission. 4,667,540, 5-26-87, Cl. 74-866.000.

Yagihara, Morio; and Ikegawa, Akihiko, to Fuji Photo Film Co., Ltd. Silver halide photographic materials containing a blocked photographic reagent. 4,659,651, 4-21-87, Cl. 430-542.000.

Yagihara, Morio; Hirano, Tsumoru; Yamamoto, Tatsuya; and Sakamoue, Kei, to Fuji Photo Film Co., Ltd. Silver halide color photographic light-sensitive material. 4,668,613, 5-26-87, Cl. 430-548.000.

Yagihara, Morio; and Ikegawa, Akihiko, to Fuji Photo Film Co., Ltd. Silver halide photographic material. 4,690,885, 9-1-87, Cl. 430-212.000.

Yagihara, Morio: *See*—
Idota, Yoshio; and Yagihara, Morio, 4,683,189, Cl. 430-248.000.
Sato, Hideaki; and Yagihara, Morio, 4,680,257, Cl. 430-614.000.

Yagii, Koji; Miyata, Jun; and Takasuga, Shunzo, to Mazda Motor Corporation. Method of making composite member. 4,695,699, 9-22-87, Cl. 219-121.01LD.

Yagii, Koji: *See*—
Shimizu, Tsutomu; Miyata, Jun; and Yagii, Koji, 4,693,942, Cl. 428-614.000.
Tarumoto, Kouji; Miyata, Jun; Yagii, Koji; and Nanba, Satoshi, 4,636,285, Cl. 204-38.500.

Yaginuma, Atsushi: *See*—
Inoue, Yoshio; Arai, Masatoshi; Inoue, Takeo; Yaginuma, Atsushi; and Tomizawa, Tetsuo, 4,675,365, Cl. 525-408.000.

Yagishita, Koichi; Iriyama, Yasunori; and Hirose, Mitsumasa, to Kabushiki Kaisha Yagishita. Batch type filter system. 4,686,043, 8-11-87, Cl. 210-387.000.

Yagishita, Shigeru; Hosoya, Kiyoshi; Okumoto, Tadaoki; and Sugimoto, Masatoshi, to Nippon Zeon Co., Ltd.; and Toyoda Gosei Co., Ltd. Vulcanizable epoxy group-containing elastomer composition. 4,650,834, 3-17-87, Cl. 525-386.000.

Yagita, Koji; and Ono, Yotsuo, to Asahi Medical Co., Ltd. Hollow fiber membrane formed from a block copolymer of aromatic polyester and polyoxyethylene for dialysis of blood. 4,705,632, 11-10-87, Cl. 210-500.230.

Yagita, Yoshiaki; Okunuki, Yutaka; Ikeda, Toshihide; and Hyodo, Shoji, to Shiseido Company, Ltd. Multi-colored pressed cosmetic powder and method of preparing same. 4,650,672, 3-17-87, Cl. 424-69.000.

Yagnik, Chandrakant M.; and Goss, David C., to Thermon Manufacturing Company. Reduced resistance skin effect heat generating system. 4,645,906, 2-24-87, Cl. 219-301.000.

Yaguchi, Tatsuya, to Canon Kabushiki Kaisha. Image communication apparatus. 4,679,093, 7-7-87, Cl. 358-257.000.

Yagunoff, Guy G.: *See*—
Veneklasen, Lee H.; and Yagunoff, Guy G., 4,695,773, Cl. 315-382.000.

Yagusic, George J.; and Durstin, Michael F., to Durstin Machine & Manufacturing, Inc. Control for electric motor that drives a robotic appendage. 4,672,281, 6-9-87, Cl. 318-592.000.

Yagyu, Tatsuya: *See*—
Akiyama, Kazutoshi; Ono, Takashi; and Yagyu, Tatsuya, 4,666,519, Cl. 106-22.000.

Yahagi, Kazuyuki: *See*—
Suzuki, Toshio; and Yahagi, Kazuyuki, 4,711,776, Cl. 424-70.000.

Yahagi, Kyoichi: *See*—
Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,645,133, Cl. 241-182.000.
Hagiwara, Tatsuo; Imai, Keiji; Nagaoka, Shigenori; Kogumaka, Shinji; Yahagi, Kyoichi; Imagawa, Takeshi; Ishii, Hidenaga; and Kikuchi, Toshitsugu, 4,664,321, Cl. 241-176.000.

Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, to Shin Nisso Kako Co., Ltd. Chromogenic recording materials. 4,642,357, 2-10-87, Cl. 549-226.000.

Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, to Shin Nisso Kako Co., Ltd. 3-N-isobutylethylamino-6-methyl-7-phenylaminofluoran. 4,665,199, 5-12-87, Cl. 549-226.000.

Yahagi, Masakichi; Obitsu, Takeo; Igaki, Tetsuo; Horisawa, Kazuyuki; Nanbu, Morio; Kinoshita, Kimiaki; and Manaka, Sumio, to Shin Nisso Kako Co., Ltd. Fluoran compound and color forming record materials using the same. 4,668,967, 5-26-87, Cl. 346-221.000.

Yahagi, Masakichi; Horiuchi, Shoichi; Toyama, Takahumi; Kashiwagi, Akio; Suzuki, Teruo; Igaki, Tetsuo; Horisawa, Kazuyuki; and Shoji, Mituhiro, to Shin Nisso Kako Co., Ltd. Chromogenic fluoran derivatives. 4,677,203, 6-30-87, Cl. 546-15.000.

Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Shinji; Kinoshita, Kimiaki; Saito, Morikuni; Yamashita, Toshiyuki; and Nanbu, Morio, to Shin Nisso Kako Co., Ltd. Addition compound of fluoran compounds and ketone. 4,695,640, 9-22-87, Cl. 549-226.000.

Yahagi, Masataka: *See*—
Tanino, Katsumi; Kiuchi, Norihiro; Tominaga, Chikara; Itoh, Eiji; Ogino, Kiyoshi; Yahagi, Masataka; and Sakamoto, Masaru, 4,656,455, Cl. 338-35.000.

Yahagi, Mitsuhisa, to Bridgestone Corporation. Pneumatic tire treads with a central zone and lateral zones of different hardness. 4,651,925, 8-4-87, Cl. 152-209.00R.

Yahalom, Joseph; and Zadok, Ori, to Technion Research & Development Foundation Ltd. Method for the production of alloys possessing high elastic modulus and improved magnetic properties by electrodeposition. 4,652,348, 3-24-87, Cl. 204-40.000.

ahara, Shoji: *See*—
Kooda, Akihide; Nishioka, Itsuo; Nishiyori, Takeshi; and Yahara, Shoji, 4,650,813, Cl. 514-701.000.

ahata, Katsumi, to Hirose Electric Co., Ltd. Electrical connector. 4,636,024, 1-13-87, Cl. 339-103.00M.

ahata, Makoto: *See*—
Nishida, Fumihiko; Nanri, Seiji; and Yahata, Makoto, 4,714,947, Cl. 355-95.000.

ahiro, Teruo: *See*—
Ikeda, Taro; Yahiro, Teruo; Yoshida, Hiroshi; Nishi, Kenji; Isobe, Takahisa; Kume, Yoichi; and Hamano, Hidenobu, 4,688,648, Cl. 175-242.000.

ahraus, Theodor G., to National Service Industries, Inc. Method and apparatus for improved photometric testing of high intensity discharge lamps and luminaires. 4,636,072, 1-13-87, Cl. 356-121.000.

aindl, Charles, to Durabla Manufacturing Co. Check valve. 4,693,270, 9-15-87, Cl. 137-514.300.

ajima, Mantaro; Noda, Akiko; Okamura, Kiyohito; Hasegawa, Yoshio; and Yamamura, Takemi, to UBE Industries, Ltd. Continuous inorganic fibers and process for production thereof. 4,663,229, 5-5-87, Cl. 428-364.000.

ajima, Motoyuki: *See*—
Ohishi, Yoshitaka; Nagahara, Michiko; Kajikawa, Norio; Yajima, Motoyuki; Nogimori, Katsumi; and Kurokawa, Shigeki, 4,666,931, Cl. 514-389.000.

ajima, Seiichi, to NEC Corporation. Loosely coupled multiprocessor system capable of transferring a control signal set by the use of a common memory. 4,709,325, 11-24-87, Cl. 364-200.000.

ajima, Toshio, to Kabushiki Kaisha Komatsu Seisakusho. Method for feeding material sheet to a press. 4,641,828, 2-10-87, Cl. 271-227.000.

ajima, Tsunao, to Mazda Motor Corporation. Internal combustion engine having a supercharger. 4,676,217, 6-30-87, Cl. 123-559.000.

ajima, Tsunao, to Mazda Motor Corporation. Engine intake system having a supercharger. 4,702,756, 10-27-87, Cl. 55-473.000.

ajima, Yusuke: Murayama, Seiichi; and Tsuji, Kanji, to Hitachi, Ltd. Grazing incidence reflection spectrometer. 4,653,908, 3-31-87, Cl. 356-51.000.

ajima, Yusuke: *See*—
Murayama, Seiichi; Tsuji, Kanji; and Yajima, Yusuke, 4,678,536, Cl. 156-635.000.
Tsuji, Kanji; Yajima, Yusuke; and Murayama, Seiichi, 4,643,799, Cl. 156-635.000.

Yajima, Yutaka; and Matsushita, Kazuyoshi, to Tachikawa Spring Co., Ltd. Spring clamp delivery device for pipe material welding apparatus. 4,634,037, 1-6-87, Cl. 228-6.100.

Yajima, Yutaka, to Tachi-S Co., Ltd. Tension spring takeout device in an automatic tension spring mounting apparatus. 4,715,114, 12-29-87, Cl. 29-809.000.

Yake, William H., to Design & Manufacturing Corporation. Combination water inlet, vent stack, blower and blower housing assembly for an automatic dishwasher. 4,657,036, 4-14-87, Cl. 134-95.000.

Yakhontov, Jury A.: *See*—
Savinykh, Vitaly V.; Tilles, Robert S.; Yakhontov, Jury A.; and Krasnov, Vladimir A., 4,650,065, Cl. 198-828.000.

Yakich, John L., to Armstrong-Blum Manufacturing Co. Vertical band saw with cantilever frame. 4,658,689, 4-21-87, Cl. 83-801.000.

Yakimovitz, Kenneth J., to RCA Corporation. Electron tube pin-sensing and straightening device. 4,709,733, 12-1-87, Cl. 140-147.000.

Yakoh, Nobuaki: *See*—
Koike, Mitsuhiro; and Yakoh, Nobuaki, 4,679,437, Cl. 73-622.000.

Yakovlevitch, Daniel, and Rotolico, Anthony J., to Perkin-Elmer Corporation, The. Gas distribution ring for plasma gun. 4,649,257, 3-10-87, Cl. 219-121.0PP.

Yakovlevitch, Daniel: *See*—
Dellasso, Anthony D.; Yakovlevitch, Daniel; and Smyth, Richard T., 4,688,722, Cl. 239-81.000.

Yaku, Fumiko: *See*—
Fujishima, Shizu; Yaku, Fumiko; and Koshijima, Tetsuo, 4,713,334, Cl. 435-99.000.

Yakumo Industrial Corporation: *See*—
Funaki, Takashi; and Nakatsuka, Katsuto, 4,679,775, Cl. 267-64.270.

Yakushiji, Tuguharu: *See*—
Hanatani, Sakio; and Yakushiji, Tuguharu, 4,683,967, Cl. 177-144.00R.

Yakuwa, Masahiko; and Iijima, Hideto, to Honda Giken Kogyo Kabushiki Kaisha. Method and apparatus for controlling an internal combustion engine. 4,644,917, 2-24-87, Cl. 123-414.000.

Yakuwa, Masahiko, to Honda Giken Kogyo Kabushiki Kaisha. System for driving solenoid valve for internal combustion engine. 4,656,989, 4-14-87, Cl. 123-490.000.

Yale, David P., to Mobil Oil Corporation. Method and apparatus for measuring the mechanical anisotropy of a material. 4,713,968, 12-22-87, Cl. 73-594.000.

Yale, Ramon L., to GTE Products Corporation. Process for providing hydrolysis resistant phosphors. 4,690,832, 9-1-87, Cl. 427-65.000.

Yale Security Inc.: *See*—
Surko, Walter E., Jr., 4,635,451, Cl. 70-364.00A.

Yale University, *See*—
Avison, Malcolm J.; Hetherington, Hoby P.; Jue, Thomas H.; and Rothman, Douglas L., 4,675,995, Cl. 324-309.000.
Gallager, Dorothy W., 4,666,903, Cl. 514-220.000.
Kozarich, John W.; and Rhoads, Robert E., 4,710,566, Cl. 536-28.000.
Lin, Tai-Shun; and Prusoff, William H., 4,710,492, Cl. 514-50.000.
Pawelek, John M., 4,695,449, Cl. 424-1.100.

Sartorelli, Alan C.; and Shyam, Krishnamurthy, 4,684,747, Cl. 564-081.000.
Schreiber, Stuart L., 4,639,532, Cl. 549-332.000.
Ward, David C.; Leary, Jeffry J.; and Brigati, David J., 4,687,732, Cl. 435-6.000.
Ward, David C.; Langer, Pennina R.; and Waldrop, Alexander A., III, 4,711,955, Cl. 536-29.000.
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,264, Cl. 424-195.100.
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,670,463, Cl. 514-464.000.
Warren, Craig B.; Munteanu, Marina A.; Schwartz, Gary E.; Benaim, Carlos; Walter, Henry G., Jr.; Leight, Ronald S.; Withycombe, Donald A.; Mookherjee, Braja D.; and Trenkle, Robert W., 4,671,959, Cl. 424-195.100.
Weissman, Sherman M.; and Collins, Francis, 4,710,465, Cl. 435-91.000.

Yaloz, Hanan: *See*—
Boxman, Raymond L.; Goldsmith, Shmuel; Brosh, Nissan; Shalev, Shaul; and Yaloz, Hanan, 4,645,895, Cl. 219-76.130.

Yalpani, Manssur, to British Columbia Research Council. Process for the preparation of aminated polysaccharide derivatives. 4683,298, 7-28-87, Cl. 536-45.000.

Yalvac, Selim: *See*—
Shaw, Ken M.; Wessling, Ritchie A.; Yats, Larry D.; and Yalvac, Selim, 4,643,940, Cl. 428-308.400.

Yam, David S.: *See*—
Lindbloom, Bruce J.; Mathews, Peter; and Yam, David S., 4,674,058, Cl. 364-518.000.

Yam, Yoke L.: *See*—
Baugh, J. Dan; Shields, Kent; Yam, Yoke L.; and Wells, Larry, 4,653,761, Cl. 277-235.00B.

Yamabayashi, Sadayoshi; and Iwaki, Yuichi, to Yoshida Kogyo K. K. Barrel-type coating apparatus. 4,688,514, 8-25-87, Cl. 118-68.000.

Yamabe, Masaaki; Kodama, Shun-ichi; and Kojima, Gen, to Asahi Glass Company Ltd. Fluorine-containing elastomer having excellent low temperature resistance and oil resistance. 4,654,394, 3-31-87, Cl. 526-247.000.

Yamabe, Shigeru: *See*—
Micetich, Ronald G.; Yamabe, Shigeru; Tanaka, Motoaki; Yamazaki, Tomio; Ishida, Naobumi; and Kajitani, Makoto, 4,668,514, Cl. 424-114.000.

Yamabe, Taiji, to Marui Industry Co., Ltd. Mirror using transparent synthetic resin plate. 4,666,264, 5-19-87, Cl. 350-641.000.

Yamabe, Yasuo; and Miura, Kiyoshi, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Tube joint. 4,666,190, 5-19-87, Cl. 285-93.000.

Yamac, Yucel, to Braun Aktiengesellschaft. Electric travel iron using a hair-dryer as a component. 4,634,836, 1-6-87, Cl. 219-249.000.

Yamada, Akira; and Tokura, Go, to Canon Kabushiki Kaisha. Double-face flexible printed circuit board. 4,681,421, 7-21-87, Cl. 354-485.000.

Yamada, Akira: *See*—
Dunks, Gary B.; Yamada, Akira; Beard, Charles D.; and Doddi, Namasivaya, 4,716,234, Cl. 548-259.000.
Gunnaga, Akihiro; Koba, Hiroshi; Sakuma, Shin; Kitagawa, Hisashi; Yamada, Akira; and Suzuki, Yuji, 4,687,738, Cl. 435-68.000.
Iwashita, Tomonori; Shimoda, Nobuhiko; and Yamada, Akira, 4,699,492, Cl. 354-289.100.
Kasahara, Akihiro; Goto, Kenya; Yamada, Akira; and Watanabe, Shoji, 4,679,903, Cl. 350-247.000.
Koseki, Yasuo; Yamada, Akira; Kurokawa, Hideki; Matsuzaki, Harumi; Ebara, Katsuya; and Takahashi, Sankichi, 4,638,646, Cl. 62-478.000.
Koseki, Yasuo; Ebara, Katsuya; Takahashi, Sankichi; Matsuoka, Kazuhiko; Kuroiwa, Minoru; and Yamada, Akira, 4,670,137, Cl. 210-96.100.

Yamada, Akitoshi: *See*—
Nagai, Kiyotaka; Suzuki, Ryuji; and Yamada, Akitoshi, 4,672,665, Cl. 379-411.000.

Yamada, Atsushi: *See*—
Eguchi, Yoshio; and Yamada, Atsushi, 4,687,622, Cl. 528-265.000.

Yamada, Chikara, Watabe, Yuji; Iraku, Koichi, deceased (by Iraku, Sanae, legal heir); and Murakami, Yuichi, to Bridgestone Corporation. Exhaust gas purifying catalyst. 4,711,870, 12-8-87, Cl. 502-303.000.

Yamada, Fujio: Hot nozzle for runnerless mold. 4,648,833, 3-10-87, Cl. 425-549.000.

Yamada, Fumiaki, to Nakamichi Corporation. Method and magnetic head assembly for recording and reproducing control signals. 4,636,899, 1-13-87, Cl. 360-123.000.

Yamada, Fumiya; Matsuki, Seiichiro; Kawamura, Mashiko; and Kawamoto, Masashi, to Pioneer Electronic Corporation. Magnetic head driving mechanism for tape player. 4,710,835, 12-1-87, Cl. 360-106.000.

Yamada, Hachiro: *See*—
Takahashi, Kousuke; and Yamada, Hachiro, 4,695,226, Cl. 365-6.000.

Yamada, Hajime: *See*—
Sagawa, Ryuichi; Nagata, Osamu; and Yamada, Hajime, 4,715,339, Cl. 123-357.000.

Yamada, Haruo: *See*—
Tsutsumi, Jiro; Uchiyama, Minoru; Katagiri, Kunio; and Yamada, Haruo, 4,657,076, Cl. 166-90.000.

Yamada, Haruyasu: *See*—
Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, 4,635,231, Cl. 365-190.000.
Mori, Toshiki; Yamada, Haruyasu; Hasegawa, Kenichi; and Aono, Kunitoshi, 4,635,292, Cl. 382-41.000.

Yamada, Hideaki; and Tani, Yoshiki, to Yamada, Hideaki; and Nitto Kagaku Kogyo Kabushiki Kaisha, a part interest. Process for biological preparation of amides. 4,637,982, 1-20-87, Cl. 435-129.000.

Yamada, Hideaki; Ryuno, Koitchiro; Enomoto, Kanehiko; and Watanabe, Ichiro, to Nitto Kagaku Kogyo Kabushiki Kaisha; and Yamada, Hideaki. Method for cultivation of pseudomonas bacteria. 4,661,456, 4-28-87, Cl. 435-244.000.

Yamada, Hideaki; Enomoto, Kanehiko; and Watanabe, Ichiro, to Nitto Kagaku Kogyo Kabushiki Kaisha; and Yamada, Hideaki. Method for cultivation of pseudomonas bacteria. 4,661,457, 4-28-87, Cl. 435-244.000.

Yamada, Hidemi: *See*—
Morimoto, Takeshi; Matsubara, Toshiya; Hamatani, Yoshiki; Iwano, Naoto; Shimizu, Hideo; Komatsu, Shigeo; and Yamada, Hidemi, 4,689,724, Cl. 361-433.000.

Yamada, Hideo; Ichiki, Shigemi; Naniwa, Hisamoto; Uchida, Susumu; Kadokura, Kenji; Tsunoda, Susumu; and Nakajima, Kunio, to Nippon Yusen Kaisha; and Nihon Matai Co., Ltd. Liner bag for use in containers. 4,674,127, 6-16-87, Cl. 383-6.000.

Yamada, Hidetoshi, to Olympus Optical Co., Ltd. Solid state image sensor. 4,644,402, 2-17-87, Cl. 358-213.000.

Yamada, Hirohide; Sakakibara, Masahiko; and Koike, Yoshiharu, to Hitachi Metals, Ltd. Ceramic substrate for a thin layer magnetic head. 4,681,813, 7-21-87, Cl. 428-450.000.

Yamada, Hirohide: *See*—
Morita, Shigetoshi; Ashizawa, Masaaki; and Yamada, Hirohide, 4,642,719, Cl. 360-126.000.

Yamada, Hirokazu: *See*—
Johdai, Akiyoshi; Yamada, Hirokazu; Ikenoue, Yoshikazu; and Ishikawa, Takuma, 4,638,992, Cl. 271-293.000.

Yamada, Hiromichi: *See*—
Okamura, Masayoshi; Matsuda, Kiyoshi; Yamada, Hiromichi; Umeda, Hiromi; and Tomimoto, Masami, 4,673,655, Cl. 436-75.000.

Yamada, Hironori; Sayama, Nobuo; and Kuno, Masashi, to Teijin Limited. Polyester and process for preparation thereof. 4,663,423, 5-5-87, Cl. 528-179.000.

Yamada, Hiroshi, to Ricoh Company, Ltd. Microfilm copying apparatus. 4,666,284, 5-19-87, Cl. 355-5.000.

Yamada, Hiroshi; Iioka, Michihiro; Suganc, Akira; Takita, Atsushi; Nigawara, Seiitsu; and Fukai, Masayuki, to Hitachi, Ltd. Controller for heat power plant. 4,707,778, 11-17-87, Cl. 364-132.000.

Yamada, Hirotada; Masai, Naruhito; Ueda, Sinji; Okuda, Takao; Fukasawa, Masatomo; Kato, Masuhiro; and Fukumura, Masataka, to Sumitomo Pharmaceuticals Company, Limited. Cephem compounds. 4,705,784, 11-10-87, Cl. 514-202.000.

Yamada, Hiroyasu; and Shiraishi, Motoatsu, to Honda Giken Kogyo Kabushiki Kaisha. Method for preparing a sliding face of a machine tool. 4,657,734, 4-14-87, Cl. 419-9.000.

Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, to Honda Giken Kogyo Kabushiki Kaisha. Conveyor in plastic working machine. 4,658,626, 4-21-87, Cl. 72-405.000.

Yamada, Hiroyasu; Shiraishi, Motoatsu; Tazou, Ken; Nakamura, Mitsuki; Kageyama, Ryoichi; Namiki, Akira; and Sasagawa, Masaru, to Honda Giken Kogyo Kabushiki Kaisha. Conveyor in plastic working machine. 4,682,685, 7-28-87, Cl. 198-621.000.

Yamada, Hisafumi: *See*—
Saito, Junya; Yamada, Hisafumi; and Tsutsui, Ichiro, 4,667,241, Cl. 358-167.000.

Yamada, Hisashi; and Ohgoshi, Seiichi, to Kabushiki Kaisha Toshiba. Apparatus for detecting a focusing state of an optical system. 4,705,941, 11-10-87, Cl. 250-201.000.

Yamada, Ichiho: *See*—
Suzuki, Mitsuo; Hashimoto, Hitoshi; Ichikawa, Nobuyasu; Yamada, Ichiho; Ozawa, Akira; and Matsuyama, Taizo, 4,656,726, Cl. 29-568.000.

Yamada Iryo Shomei Kabushiki Kaisha: *See*—
Kato, Yasuhiro; and Koyama, Mitsuhiro, 4,639,838, Cl. 362-33.000.

Yamada, Izuru: *See*—
Suzuki, Toshiro; Fujii, Fumiaki; and Yamada, Izuru, 4,707,654, Cl. 324-158.00R.
Takatori, Hiroshi; Suzuki, Toshiro; Matsubara, Osamu; and Yamada, Izuru, 4,687,998, Cl. 328-58.000.

Yamada, Jun; Yuhara, Akitsuna; Shiba, Takashi; and Fujita, Yuji, to Hitachi, Ltd. Surface elastic wave device. 4,689,586, 8-25-87, Cl. 333-151.000.

Yamada, Junichi, to Fuji Photo Film Co., Ltd. Image scanning apparatus. 4,706,129, 11-10-87, Cl. 358-293.000.

Yamada, Junzo: *See*—
Matsumura, Tsuneo; Mano, Tsuneo; Yamada, Junzo; and Inoue, Junichi, 4,694,428, Cl. 365-189.000.

Yamada, Katsumi: *See*—
Nishiura, Masaharu; Fujisawa, Hakubun; and Yamada, Katsumi, 4,658,132, Cl. 250-231.0SE.

Yamada, Katsunori: *See*—
Ikuta, Kunio; and Yamada, Katsunori, 4,673,971, Cl. 358-75.000.

Yamada, Katsuya: *See*—
Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, 4,671,754, Cl. 425-66.000.
Okita, Koichi; Toyooka, Shinichi; Asako, Shigeru; and Yamada, Katsuya, 4,705,544, Cl. 55-158.000.

Yamada, Kazuhiko, to Kabushiki Kaisha Toshiba. Printed circuit board and method for fabrication thereof. 4,682,271, 7-21-87, Cl. 361-409.000.

Yamada, Kazuhiro: *See*—
Ahagon, Asahiro; Kobayashi, Toshio; Yamada, Kazuhiro; Da, Seiichi; and Misawa, Makoto, 4,635,693, Cl. 152-209.00R.

Yamada, Kazuji; Kobayashi, Yutaka; Kawakami, Kanji; Shimadi, Satoshi; Tanabe, Masanori; and Kobori, Shigeyuki, to Hitachi, Ltd. Method of making silicon diaphragm pressure sensor. 4,670,969, 6-9-87, Cl. 29-576.00E.

Yamada, Kazumori: *See*—
Ichikawa, Yoshio; and Yamada, Kazumori, 4,682,148, Cl. 340-311.100.

Yamada, Kazuo: *See*—
Kiuchi, Masao; Ito, Yoshiaki; Ishibashi, Nobuyuki; and Yamada, Kazuo, 4,701,368, Cl. 428-233.000.
Yamaguchi, Hirohisa; and Yamada, Kazuo, 4,639,778, Cl. 358-135.000.

Yamada, Kazutoshi; and Yamaguchi, Takao, to Omron Tateisi Electronics Co. Transaction processing system for separate registration and settlement functions. 4,713,760, 12-15-87, Cl. 364-405.000.

Yamada, Kazuyoshi, to NEC Corporation. Reference voltage generating circuit. 4,658,205, 4-14-87, Cl. 323-313.000.

Yamada, Kazuyoshi, to NEC Corporation. Transistor circuit with controlled collector saturation voltage. 4,713,561, 12-15-87, Cl. 307-456.000.

Yamada, Kazuyoshi: *See*—
Sato, Fumihiko; and Yamada, Kazuyoshi, 4,686,395, Cl. 307-455.000.
Umeki, Yoshitaka; and Yamada, Kazuyoshi, 4,689,497, Cl. 307-272.00A.

Yamada, Keiichi; and Abe, Tatsuhiko, to Diesel Kiki Co., Ltd. Solenoid valve. 4,678,160, 7-7-87, Cl. 251-129.020.

Yamada, Keiichi: *See*—
Kushida, Takeo; and Yamada, Keiichi, 4,637,553, Cl. 239-533.40.
Kushida, Takeo; and Yamada, Keiichi, 4,673,163, Cl. 251-129.10.

Yamada, Keiko: *See*—
Ueno, Hideo; Hattori, Hiroshi; Maeda, Kumiko; and Yamada, Keiko, 4,695,172, Cl. 400-83.000.

Yamada, Kenichi, to Takigen Manufacturing Co. Ltd. Door handle device unlockable from indoor side. 4,635,977, 1-13-87, Cl. 292-92.000.

Yamada, Kenichi, to Fuji Jukogyo Kabushiki Kaisha. Parking lock system for a vehicle. 4,671,133, 6-9-87, Cl. 74-5.91.000.

Yamada, Kenichi: *See*—
Sakai, Yasuhito; and Yamada, Kenichi, 4,690,011, Cl. 74-475.000.

Yamada, Kenji, to Nippon Kogaku K. K. Apparatus for measuring the optical characteristics of an optical system to be examined. 4,641,961, 2-10-87, Cl. 356-124.000.

Yamada, Kenji, to Nippon Kogaku K. K. Apparatus for eye examination. 4,679,921, 7-14-87, Cl. 351-222.000.

Yamada, Kenji: *See*—
Mitani, Kiyoharu; Morohashi, Kazuo; Yamada, Kenji; Gonda, Tsunemi; and Mizutani, Hideo, 4,641,964, Cl. 356-124.000.

Yamada, Kenzi: *See*—
Murakami, Jyoji; and Yamada, Kenzi, 4,642,609, Cl. 340-347.0AD.

Yamada, Kimiko: *See*—
Yamaguchi, Shoji; and Yamada, Kimiko, 4,663,079, Cl. 252-512.000.
Yamaguchi, Shoji; and Yamada, Kimiko, 4,705,647, Cl. 252-512.000.

Yamada, Kimitoshi, to Hitachi, Ltd. Display screen control system. 4,710,762, 12-1-87, Cl. 340-721.000.

Yamada, Kiyoshi: *See*—
Hirahara, Shuzo; Yamada, Kiyoshi; Higuchi, Kazuhiko; and Sato, Tutomu, 4,692,812, Cl. 358-285.000.
Sekizawa, Hidekazu; Yamada, Kiyoshi; Miura, Shuzo; and Hosaka, Yasuo, 4,663,662, Cl. 358-75.000.

Yamada, Kiyoshige, to Mazda Motor Corporation. Front structure of vehicle body. 4,646,863, 3-3-87, Cl. 180-68.100.

Yamada, Kohzaburoh; Ichijima, Seiji; and Usui, Hideo, to Fuji Photo Film Co., Ltd. Silver halide color photographic material. 4,678,741, 7-7-87, Cl. 430-551.000.

Yamada, Koichi; Kubo, Kanji; and Nishitani, Yasuo, to Matsushita Electric Industrial Co., Ltd. Helical scan magnetic recording and reproduction system with head position control. 4,644,414, 2-17-87, Cl. 360-10.200.

Yamada, Koichi; Hiraiwa, Ichiro; Taniguchi, Shin; and Zengo, Toshinari, to Ebara Corporation. Membrane separator. 4,680,109, 7-14-87, Cl. 210-103.000.

Yamada, Koji; Hashimoto, Tamotsu; Naruse, Masao; Murayama, Yo; and Niino, Hideki. Antithrombotic agent. 4,705,805, 11-10-87, Cl. 514-548.000.

Yamada, Koji: *See*—
Kase, Hiroshi; Matsuda, Yuzuru; Kawamoto, Isao; Asano, Kozo; Shirahata, Kunikatsu; Yasuzawa, Tohru; and Yamada, Koji, 4,692,310, Cl. 424-122.000.
Muto, Kenji; Sugaya, Toru; Kuroda, Tokuyuki; Hashimoto, Tamotsu; Yamada, Koji; Nakamizo, Nobuhiro; and Watanabe, Minoru, 4,639,522, Cl. 546-194.000.
Nakagawa, Susumu; Ushijima, Ryosuke; Nakano, Fumio; Yamada, Koji; and Mano, Eiichi, 4,677,100, Cl. 514-202.000.
Ooka, Akihiro; Okamoto, Kenji; and Yamada, Koji, 4,680,818, Cl. 5-81.00R.

Yamada, Koki: *See*—
Yamada, Mikio; Mizuno, Masahiro; Tsukamoto, Yoshinori; and Yamada, Koki, 4,656,140, Cl. 436-131.000.

Yamada, Kouichi, to NEC Corporation. Data control circuits. 4,712,090, 12-8-87, Cl. 340-347.0DD.

Yamada, Kouji: *See*—
Mizuno, Tetsuo; Marumoto, Yoshio; and Yamada, Kouji, 4,700,078, Cl. 250-566.000.
Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, 4,655,973, Cl. 260-404.000.

Yamada, Kouzi: *See*—
Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seuchi; Murakami, Manabu; and Yamada, Kouzi, 4,709,079, Cl. 560-66.000.

Yamada, Kuniaki: *See*—
Mochizuki, Asahi; Ozawa, Akira; Fujita, Shinichiro; and Yamada, Kuniaki, 4,696,446, Cl. 246-169.00S.

Yamada, Kunihiro, to Ricoh Company, Ltd. Multiaccess communication system. 4,707,828, 11-17-87, Cl. 370-85.000.

Yamada, Magoichi, to Daiwa Golf Co., Ltd. Iron club head. 4,697,814, 10-6-87, Cl. 273-169.000.

Yamada, Makoto; and Tsukamoto, Kazuyoshi, to Sanyo Electric Co., Ltd. Controller for fuel cell power system. 4,670,702, 6-2-87, Cl. 320-21.000.

Yamada, Makoto: *See*—
Sigiki, Hiraku; Yamada, Makoto; and Miyamori, Shi iji, 4,714,971, Cl. 360-77.000.
Sugiki, Hiraku; Odaka, Kentaro; Satake, Tomoji; Ohmori, Takashi; and Yamada, Makoto, 4,656,539, Cl. 360-77.000.
Tajima, Osamu; Yamada, Makoto; Hagino, Hideo; and Nishizawa, Nobuyoshi, 4,640,873, Cl. 429-24.000.

Yamada, Mamoru: *See*—
Ogibayashi, Shigeaki; Yamada, Mamoru; Mukai, Tatsuo; Tezuka, Makoto; and Hirai, Masazumi, 4,687,047, Cl. 164-476.000.

Yamada, Manabu; Yoshida, Ichirou; Yamaguchi, Shunzo; and Atsumi, Morihiro, to Nippondenso Co., Ltd. Spark plug. 4,713,582, 12-15-87, Cl. 315-58.000.

Yamada, Manabu: *See*—
Yoshida, Ichirou; Atsumi, Morihiro; Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo; and Yamada, Manabu, 4,640,996, Cl. 200-19.00R.

Yamada, Masaaki: *See*—
Furth, Harold P.; Janos, Alan C.; Uyama, Tadao; and Yamada, Masaaki, 4,713,208, Cl. 376-137.000.
Janos, Alan C.; Jardin, Stephen C.; and Yamada, Masaaki, 4,687,617, Cl. 376-137.000.

Yamada, Masahide: *See*—
Kamiyama, Akira; Yamada, Masahide; Kitada, Katsuyoshi; Otuka, Masayoshi; and Kanematsu, Etsuro, 4,700,026, Cl. 200-19.00R.

Yamada, Masaki; Yokoi, Mitsuru; and Oishi, Kazuhiro, to CBS/Sony Records Inc. Disc package. 4,635,792, 1-13-87, Cl. 206-310.000.

Yamada, Masanori, to Canon Kabushiki Kaisha. Electronic flash apparatus. 4,673,845, 6-16-87, Cl. 315-241.00P.

Yamada, Masanori, to Canon Kabushiki Kaisha. Flash photography system. 4,710,012, 12-1-87, Cl. 354-415.000.

Yamada, Masanori: *See*—
Yoshida, Masaaki; Yoshikawa, Ryoichi; Nagase, Naoki; and Yamada, Masanori, 4,656,466, Cl. 340-716.000.

Yamada, Masatoshi: *See*—
Narita, Toshihide; Yamada, Masatoshi; and Yasuda, Eiichi, 4,675,827, Cl. 364-478.000.
Oshima, Yujiro; Yamada, Masatoshi; Mori, Nobuyuki; Sugiyama, Katsuhiko; Aoyama, Taro; Saito, Akinori; and Kozuka, Kazuhiro, 4,633,830, Cl. 123-276.000.
Saito, Akinori; Yamada, Masatoshi; Imai, Kenji; Kawamura, Kiyomi; and Kimura, Masanobu, 4,685,432, Cl. 123-276.000.

Yamada, Michihiro: *See*—
Mashiko, Koichiro; Yamada, Michihiro; Arimoto, Kazutami; Miyamoto, Hiroshi; Kobayashi, Toshifumi; and Morooka, Yoshikazu, 4,641,281, Cl. 365-189.000.
Miyamoto, Hiroshi; Mashiko, Koichiro; Kobayashi, Toshifumi; and Yamada, Michihiro, 4,689,770, Cl. 365-149.000.

Yamada, Mikio; Tsukamoto, Yoshinori; and Mizuno, Masahiro, to Nakano Vinegar Co., Ltd. Method for automatically controlling feed rate of alcohol solution as raw material in a process for producing vinegar. 4,654,215, 3-31-87, Cl. 426-17.000.

Yamada, Mikio; Mizuno, Masahiro; Tsukamoto, Yoshinori; and Yamada, Koki, to Nakano Vinegar Co., Ltd. Method for a measurement of alcohol concentration in acetic acid fermenting broth. 4,656,140, 4-7-87, Cl. 436-131.000.

Yamada, Mikio; and Hamada, Akihiko, to Sumitomo Rubber Industries, Ltd. Golf ball. 4,679,794, 7-14-87, Cl. 273-235.00R.

Yamada, Mikio; Tsukamoto, Yoshinori; and Mizuno, Masahiro, to Nakano Vinegar Co., Ltd. Apparatus for automatically controlling the feed rate of alcohol solution as raw material in a vinegar production process. 4,692,414, 9-8-87, Cl. 435-291.000.

Yamada, Minoru; and Toyoda, Takashi, to Fuji Photo Film Co., Ltd. Method for processing silver halide photographic material. 4,672,025, 6-9-87, Cl. 430-420.000.

Yamada, Minoru; Usui, Mitsuru; Masaki, Akira; Nakanishi, Kenichirou; and Tokuda, Masahide, to Hitachi, Ltd. Device for cooling integrated circuit chip. 4,686,606, 8-11-87, Cl. 361-385.000.

Yamada, Minoru; Wajima, Motoyo; Masaki, Akira; Takahashi, Akio; Nakanishi, Kenchirou; and Sugawara, Katuo, to Hitachi, Ltd. Hybrid multilayer wiring board. 4,710,854, 12-1-87, Cl. 361-414.000.

Yamada, Minoru: *See*—
Nakanishi, Kenichirou; Yamada, Minoru; Masaki, Akira; Imai, Kuninori; and Chiba, Katuaki, 4,644,385, Cl. 357-82.000.
Oshima, Junji; Yamada, Minoru; and Kajita, Yasuyuki, 4,684,695, Cl. 525-36.000.

Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co., Ltd. Method and system for processing image data stored in RGB form. 4,642,680, 2-10-87, Cl. 358-78.000.

Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co., Ltd. Method and system for condensing binary image data. 4,642,698, 2-10-87, Cl. 358-260.000.

Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co., Ltd. Method for simultaneously recording a halftone picture portion, a line drawing portion with a desired screen tint, and a boundary portion between them on a plurality of color separations. 4,644,392, 2-17-87, Cl. 358-75.000.

Yamada, Mitsuhiko; and Kitamura, Hideaki, to Dainippon Screen Mfg. Co., Ltd. Collection method of data on feed amount of printing ink and system therefor. 4,649,500, 3-10-87, Cl. 364-518.000.

Yamada, Mitsuhiko, to Dainippon Screen Seizo Kabushiki Kaisha. Picture image scanning and reproducing method and system therefor. 4,651,225, 3-17-87, Cl. 358-287.000.

Yamada, Mitsuhiko; Atoji, Hitomi; and Kashiwabara, Katsuaki, to Dainippon Screen Mfg. Co., Ltd. Method for color correction for multi-color printing plate pictures. 4,656,505, 4-7-87, Cl. 358-80.000.

Yamada, Mitsuhiko; and Kitamura, Hideaki, to Dainippon Screen Mfg. Co., Ltd. Sharpness emphasis signal processing. 4,670,793, 6-2-87, Cl. 358-284.000.

Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co., Ltd. Method and system for recording plural images on a photosensitive film with layout work. 4,672,462, 6-9-87, Cl. 358-280.000.

Yamada, Mitsuhiko; and Kitamura, Hideaki, to Dainippon Screen Mfg. Co., Ltd. Method and apparatus for recording plural images with desired layout by an image reproducing scanner. 4,673,989, 6-16-87, Cl. 358-287.000.

Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co., Ltd. System for supervising photomechanical process. 4,682,286, 7-21-87, Cl. 364-200.000.

Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co. Ltd. Correction method of color-separated signals. 4,684,978, 8-4-87, Cl. 358-75.000.

Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co., Ltd. Method and apparatus of storing image data into a memory in a layout scanner system. 4,691,228, 9-1-87, Cl. 358-280.000.

Yamada, Mitsuhiko; Fujisawa, Kyohei; and Kitamura, Hideaki, to Dainippon Screen Mfg. Co., Ltd. Method for manufacturing electric masks using a color scanner and an apparatus for use therein. 4,692,796, 9-8-87, Cl. 358-76.000.

Yamada, Mitsuhiko, to Dainippon Screen Manufacturing Co., Ltd. Method and apparatus for color separation in an image reproduction scanner. 4,701,790, 10-20-87, Cl. 358-75.000.

Yamada, Mitsuhiko: *See*—
Kitamura, Hideaki; and Yamada, Mitsuhiko, 4,679,095, Cl. 358-280.000.
Kitamura, Hideaki; Fujiki, Syogo; and Yamada, Mitsuhiko, 4,683,500, Cl. 358-280.000.
Shimano, Noriyuki; Tokura, Isao; and Yamada, Mitsuhiko, 4,680,642, Cl. 358-280.000.
Yamada, Susumu; and Yamada, Mitsuhiko, 4,636,870, Cl. 358-288.000.

Yamada, Mitsuho: *See*—
Yuyama, Ichiro; Yamada, Mitsuho; Isono, Haruo; and Yasuda, Minoru, 4,704,627, Cl. 358-88.000.

Yamada, Muneki; and Sakamoto, Akira, to Toyo Seikan Kaisha, Ltd. Process for drawing plastic laminates. 4,675,219, 6-23-87, Cl. 428-35.000.

Yamada, Muneki: *See*—
Yamamoto, Osamu; and Yamada, Muneki, 4,649,013, Cl. 264-318.000.

Yamada, Mutsuo; Nishimura, Yasuyuki; Arikawa, Yoshijiro; Kuwahara, Takanori; Kamiguchi, Taiji; and Tanimoto, Hirotoshi, to Babcock-Hitachi Kabushiki Kaisha. Process for producing organic compounds by utilizing oxygenic complexes. 4,691,053, 9-1-87, Cl. 562-531.000.

Yamada, Mutsuo: *See*—
Ishida, Tetsuyoshi; Okiura, Kunio; Hanayama, Fumihiko; Yamada, Mutsuo; and Arikawa, Yoshijiro, 4,711,828, Cl. 429-12.000.

Yamada, Naoki: *See*—
Hyodo, Hiroshi; Yamada, Naoki; Iwase, Kenichi; and Kishimoto, Shinichi, 4,637,925, Cl. 356-339.000.
Takeuchi, Hitoshi; Yamada, Naoki; Ikemura, Hisao; and Suzuki, Noriyasu, 4,676,189, Cl. 118-626.000.

Yamada, Noboru; Ohno, Eiji; and Kumura, Kunio, to Matsushita Electric Industrial Co., Ltd. Reversible optical information recording medium. 4,656,079, 4-7-87, Cl. 428-209.000.

Yamada, Noboru; Nishiuchi, Kenichi; and Takenaga, Mutsuo, to Matsushita Electric Industrial Co., Ltd. Method of producing optical recording medium. 4,659,588, 4-21-87, Cl. 427-42.000.

Yamada, Noboru; and Minegishi, Hitoshi, to Olympus Optical Company Ltd. Lens and lens holding devices. 4,662,717, 5-5-87, Cl. 350-245.000.

Yamada, Noboru; Nagashima, Michiyoshi; and Nishiuchi, Kenichi, to Matsushita Electric Industrial Co., Ltd. Method for recording, repro-

ducing and erasing optical information. 4,710,911, 12-1-87, Cl. 369-100.000.
Yamada, Nobuo: *See*—
Shibata, Takashi; Yamada, Nobuo; Mada, Yoshikazu; and Iizuna, Masaki, 4,705,977, Cl. 310-235.000.
Yamada, Nobutoshi: *See*—
Haga, Takahiro; Yamada, Nobutoshi; Sugi, Hideo; Koyanagi, Toru; and Okada, Hiroshi, 4,677,110, Cl. 514-274.000.
Haga, Takahiro; Yamada, Nobutoshi; Sugi, Hideo; Koyanagi, Toru; and Okada, Hiroshi, 4,677,111, Cl. 514-274.000.
Yamada, Noriaki; Hoshino, Kazuya; Sugiyama, Tadashi; and Matsuura, Hiroyuki, to Yokogawa Hokushin Electric Corporation; and Yokogawa Medical Systems, Limited. Nuclear magnetic resonance data processing method. 4,656,426, 4-7-87, Cl. 324-309.000.
Yamada, Noriaki: *See*—
Hoshino, Kazuya; Yamada, Noriaki; Yoshitome, Eiji; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,644,279, Cl. 324-309.000.
Yamada, Norio; Kajitani, Hayashi; Chiba, Kyoji; and Edagawa, Mitsugu, to Hitachi, Ltd. Method of arranging logic circuit devices on logic circuit board. 4,636,966, 1-13-87, Cl. 364-491.000.
Yamada, Norio: *See*—
Hashimoto, Koichi; Sugai, Haruo; Hara, Hikoyoshi; and Yamada, Norio, 4,686,967, Cl. 128-57.000.
Yamada, Noriyoshi: *See*—
Akazawa, Naoki; Nishi, Kazuhiko; Kawakami, Naoya; Fujisawa, Yoshiaki; and Yamada, Noriyoshi, 4,706,470, Cl. 62-209.000.
Yamada, Osamu, to Citizen Watch Co., Ltd. Electrode structure of dot-matrix liquid-crystal cell having corresponding notches and slits. 4,687,299, 8-18-87, Cl. 350-336.000.
Yamada, Osamu: *See*—
Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; Yamada, Osamu; and Ueguri, Shigeharu, 4,672,612, Cl. 371-37.000.
Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; and Yamada, Osamu, 4,675,868, Cl. 371-37.000.
Yamada, Ryuji: *See*—
Sato, Koji; Kuroda, Hiroshi; Yamada, Ryuji; and Serino, Mamoru, 4,715,657, Cl. 299-1.000.
Yamada, Sadao; Takayama, Takeshi; Seshimoto, Osamu; and Yamaguchi, Akira, to Fuji Photo Film Co., Ltd. Method of manufacturing ion selective electrode pair. 4,683,048, 7-28-87, Cl. 204-416.000.
Yamada, Satoshi; and Furukawa, Kaoru, to Matsushita Electric Works, Ltd. Power supply circuit. 4,710,695, 12-1-87, Cl. 320-21.000.
Yamada, Seiji; Konishi, Satoshi; Kono, Katsuaki; and Nishimura, Ryoji, to Ishida Scales Manufacturing Company, Ltd. Method of and apparatus for controlling hopper gate motion. 4,705,125, 11-10-87, Cl. 177-25.000.
Yamada, Seiji: *See*—
Naito, Kazufumi; Haze, Setsuo; Nobutugu, Hideo; Nakagawa, Yukio; Yamada, Seiji; and Murata, Shuji, 4,694,920, Cl. 177-25.000.
Nakamura, Toru; Konishi, Satoshi; Yamada, Seiji; Tatsuoka, Masahiko; and Kubo, Michihiro, 4,708,215, Cl. 177-25.000.
Yamada, Seiya: *See*—
Nishimura, Yoshiaki; Okinoshima, Hiroshige; Yamada, Seiya; and Kashiwagi, Tsutomu, 4,650,649, Cl. 528-26.000.
Yamada, Seisuo: *See*—
Kobayashi, Shigenobu; Takabayashi, Fumiki; and Yamada, Setsuo, 4,666,764, Cl. 428-254.000.
Yamada, Shigeki: *See*—
Endo, Kazuyuki; Taniguchi, Motoaki; Takahashi, Masanobu; Yamada, Shigeki; and Kato, Kenshiro, 4,700,764, Cl. 152-526.000.
Yamada, Shuhei: *See*—
Shionozaki, Yoshio; Mukai, Hiroshi; Obikawa, Tsuyoshi; and Yamada, Shuhei, 4,684,220, Cl. 350-350.00R.
Yamada, Shunichi: *See*—
Ogawa, Yutaka; Yamada, Shunichi; and Hamanaka, Toshiyuki, 4,642,210, Cl. 264-62.000.
Yamada, Sumito; Nakamura, Taku; Suga, Shuzo; and Kawamoto, Hiroshi, to Fuji Photo Film Co., Ltd. Silver halide photographic material. 4,647,528, 3-3-87, Cl. 430-567.000.
Yamada, Sumito; and Okazaki, Masaki, to Fuji Photo Film Co., Ltd. Silver halide photographic materials. 4,678,741, 7-7-87, Cl. 430-445.000.
Yamada, Sumito; Mifune, Hiroyuki; and Urabe, Shigeharu, to Fuji Photo Film Co., Ltd. Process for producing silver halide emulsion and silver halide photographic light-sensitive material containing the same. 4,678,745, 7-7-87, Cl. 430-569.000.
Yamada, Sumito: *See*—
Sugimoto, Tadao; and Yamada, Sumito, 4,665,012, Cl. 430-502.000.
Yamada, Susumu; and Yamada, Mitsuhiko, to Dainippon Screen Mfg. Co., Ltd. Method and system for recording transformed images. 4,636,870, 1-13-87, Cl. 358-288.000.
Yamada, Tadamasa: *See*—
Takata, Yatsuka; Yamada, Tadamasa; and Kikuchi, Eiki, 4,642,219, Cl. 420-104.000.
Takata, Yatsuka; Yamada, Tadamasa; and Kikuchi, Eiki, 4,702,767, Cl. 75-49.000.
Yamada, Tadao: *See*—
Nagata, Teruyuki; Kajimoto, Nobuyuki; Wada, Masaru; Nakayama, Hitoshi; and Yamada, Tadao, 4,668,793, Cl. 548-317.000.
Yamada, Tadashi; and Yamaguchi, Katsuhisa, to Idemitsu Petrochemical Co., Ltd. Process for preparing tetrahydrofuran. 4,665,205, 5-12-87, Cl. 549-509.000.
Yamada, Tadatoshi: *See*—
Kawamura, Toshimi; Yamada, Tadatoshi; Hani, Kiyoshi; and Yoshizaki, Kiyoshi, 4,694,268, Cl. 335/216.000.
Ozaki, Haruhiko; Yamada, Tadatoshi; Machida, Kunio; Ono, Kiyoshi; Shimazaki, Hirato; Inoue, Hidekimi; and Uji, Ryohei, 4,713,686, Cl. 358-107.000.
Yamamoto, Syunji; Yamada, Tadatoshi; Morita, Masao; and Misuda, Tetsuya, 4,652,826, Cl. 324-320.000.
Yoda, Kiyoshi; Itagaki, Hidenobu; Fujimura, Satoshi; and Yamada, Tadatoshi, 4,649,345, Cl. 324-309.000.
Yamada, Takahiro, to Aisin Seiki Kabushiki Kaisha. Signal transmission apparatus for steering control board. 4,635,029, 1-6-87, Cl. 340/22.000.
Yamada, Takahiro; Namekawa, Satoshi; Yoshino, Eiji; and Matsuda, Yasumasa, to Hitachi, Ltd.; Hitachi Seiko Ltd.; and Hitachi Koki Co., Ltd. Ink jet recording apparatus. 4,638,326, 1-20-87, Cl. 346-75.000.
Yamada, Takahiro, to Matsushita Electric Industrial Co., Ltd. Semiconductor device. 4,639,753, 1-27-87, Cl. 357-22.000.
Yamada, Takahiro, to Matsushita Electric Industrial Co., Ltd. Solid-state photoelectrical image transducer which operates without color filters both as an imager and as a visual display. 4,654,685, 3-31-87, Cl. 357-30.000.
Yamada, Takahiro; and Fujiwara, Yoshihiro, to Matsushita Electric Industrial Co., Ltd. Solid state image sensor with signal amplification. 4,665,325, 5-12-87, Cl. 307-311.000.
Yamada, Takahiro: *See*—
Umebayashi, Kazuyuki; and Yamada, Takahiro, 4,638,287, Cl. 340-22.000.
Yoshino, Eiji; Matsuda, Yasumasa; and Yamada, Takahiro, 4,670,761, Cl. 346-75.000.
Yamada, Takao, to Kensetsu Fastener Kabushiki Kaisha. Method of making plug-containing type internally threaded anchor. 4,651,112, 3-31-87, Cl. 10-27.0PH.
Yamada, Takashi; Arimune, Hisao; and Maeda, Takashi, to Kyocera Corporation. Magneto-optical recording element. 4,680,742, 7-14-87, Cl. 369-13.000.
Yamada, Takehito; and Sugaya, Toshihiro, to Kabushiki Kaisha Toshiba. Servo system for a magnetic disk memory having spiral tracks. 4,636,885, 1-13-87, Cl. 360-78.000.
Yamada, Takemi; Satoh, Tamataro; Mizushima, Masaaki; Toyota, Kou; and Okamoto, Hiromi, to Nippon Kokan Kabushiki Kaisha. Method of producing an exhaust valve for diesel engine. 4,661,371, 4-28-87, Cl. 427-49.000.
Yamada, Takeo; Ando, Seigo; and Kawase, Yoshihiro, to Nippon Kokan Kabushiki Kaisha. Apparatus for measuring the level of the molten metal in the mold of a continuous casting machine. 4,647,954, 3-3-87, Cl. 324-207.000.
Yamada, Takeshi; Osato, Yasukuni; and Watanabe, Okosu, to Fujikura Ltd. Heater for heating heat shrinkable tube. 4,680,449, 7-14-87, Cl. 219-385.000.
Yamada, Takeshi: *See*—
Atsuta, Toshio; and Yamada, Takeshi, 4,699,309, Cl. 228-116.00.
Tsuji, Katsuya; Tanimoto, Masahiro; Hirano, Akihiro; and Yamada, Takeshi, 4,705,669, Cl. 422-93.000.
Yamada, Takeyoshi, to Teijin Limited. Ultrathin film, process for production thereof, and use thereof for concentrating a specific gas from a gas mixture. 4,644,046, 2-17-87, Cl. 528-28.000.
Yamada, Takuzi, to Fuji Photo Film Co., Ltd. Magnetic tape rim. 4,664,328, 5-12-87, Cl. 242-71.800.
Yamada, Tatsuo, to Mitsubishi Denki Kabushiki Kaisha. Shift register. 4,660,217, 4-21-87, Cl. 377-66.000.
Yamada, Tetsuo. Chain saw guide bar. 4,651,424, 3-24-87, Cl. 30-387.000.
Yamada, Tetsuo: *See*—
Matsunobu, Akira; Horishita, Sumio; and Yamada, Tetsuo, 4,679,374, Cl. 426-43.000.
Yamada, Teturo; and Nonaka, Hikaru, to Kabushiki Kaisha Toshiba. Refrigeration with automatic defrost and rapid cooling. 4,648,536, 3-3-87, Cl. 62-234.000.
Yamada, Tohru: *See*—
Doi, Sadao; Yamada, Tohru; Matsumoto, Shungo; and Yamamoto, Taizo, 4,697,644, Cl. 172-123.000.
Yamada, Tomiaki; Kamibonoki, Masuo; Sagara, Hiroshi; and Umeki, Hiroshi, to New Energy Development Organization; JGC Corporation; and Sanraku-Ocean Co., Ltd. Continuous alcohol manufacturing process using immobilized microorganism. 4,680,263, 7-14-87, Cl. 435-162.000.
Yamada, Tomio. *See*—
Ikura, Katsuyata; Hagiwara, Kenji; Nagasaki, Fumihiko; Yamada, Tomio; Takahashi, Hidemitsu; and Hatano, Renpei, 4,713,398, Cl. 514-594.000.
Yamada, Tomohiro: *See*—
Igi, Hisashi; Yamada, Tomohiro; Higuchi, Tomohisa; Oita, Eichi; and Yazawa, Hiroaki, 4,702,630, Cl. 400-52.000.
Yamada, Tomozo. *See*—
Sumida, Seizi; Ono, Kaichi; Yoshida, Kazuo; and Yamada, Tomozo, 4,709,057, Cl. 549-262.000.
Yamada, Toshiaki: *See*—
Kamagata, Kazuo; Yamada, Toshiaki; and Sawa, Natsuo, 4,658,089, Cl. 528-109.000.
Ogawa, Toshiya; Ueno, Hiroaki; Yamada, Toshiaki; and Haganuma, Tomoyuki, 4,716,543, Cl. 364-900.000.
Yamada, Toshihiko: *See*—
Nakanishi, Yutaka; Yamada, Toshihiko; Sanada, Yuji; and Kawai, Takashi, 4,714,426, Cl. 431-132.000.

Yamada, Toshihito: *See*—
Kido, Yoshinobu; and Yamada, Toshihiro, 4,658,640, Cl. 73-118.200.
Kido, Yoshinobu; and Yamada, Toshihiro, 4,683,455, Cl. 340-52.00R.
Oreki, Khoji; Sawada, Masahiro; Kimura, Isami; Kataoka, Mikiko; Sato, Makoto; and Yamada, Toshihiro, 4,666,915, Cl. 514-272.000.

Yamada, Toshio; and Esaki, Hideya, to Matsushita Electric Industrial Co., Ltd. Semiconductor memory device having dummy cells of divided charge type. 4,700,329, 10-13-87, Cl. 365-210.000.

Yamada, Toshio: *See*—
Sato, Takashi; and Yamada, Toshio, 4,685,980, Cl. 148-304.000.

Yamada, Toshiro; Fujisawa, Hiroshi; Goto, Kuniaki; Morimoto, Shigeo; Adachi, Takashi; and Watanabe, Yoshiaki, to Nippon Zeon Co. Ltd.; and Taisho Pharmaceutical Co. Ltd. Protected des-N-methylerythromycin derivative. 4,668,776, 5-26-87, Cl. 536-7.400.

Yamada, Tshiro: *See*—
Murakami, Yoshikazu; Ito, Seigo; and Yamada, Toshiro, 4,704,739, Cl. 455.325.000.
Tamada, Hitoshi; Kaneko, Masahiko; Okamoto, Tsutomu; and Yamada, Toshiro, 4,642,795, Cl. 365-10.000.

Yamada, Toshitaka: *See*—
Abe, Tomoaki; Fujisawa, Hideya; Omori, Norio; Kinugawa, Masumi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; and Yamada, Toshitaka, 4,713,765, Cl. 364-431.050.
Akiyama, Susumu; Ito, Katsunori; Yamada, Toshitaka; Mizuno, Tiaki; and Kinugawa, Masumi, 4,669,306, Cl. 73-2(4.000.
Ina, Katsuhiro; Sato, Yoshihisa; Kinugawa, Masumi; Suzuki, Atsushi; Ito, Katsunori; Akiyama, Susumu; Mizuno, Tiaki; Yamada, Toshitaka; and Abe, Tomoaki, 4,665,745, Cl. 73-204.000.
Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; Suzuki, Atsushi; and Sugiura, Kengo, 4,680,964, Cl. 73-204.000.
Sato, Yoshihisa; Kinugawa, Masumi; Akiyama, Susumu; Yamada, Toshitaka; Mizuno, Tiaki; and Suzuki, Atsushi, 4,683,858, Cl. 123-488.000.

Yamada, Toshiyuki: *See*—
Funabashi, Katsunori; Nakashima, Tai; Yamada, Toshiyuki; and Morishima, Kazuo, 4,690,237, Cl. 180-219.000.
Nebu, Hideki; Komuro, Katsusuke; and Yamada, Toshiyuki, 4,699,232, Cl. 180-219.000.

Yamada, Toyohisa: *See*—
Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; Yamanaka, Toshihiko; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,655,509, Cl. 303-10.000.
Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; and Yamanaka, Toshihiko, 4,660,899, Cl. 303-115.000.

Yamada, Tsuneo; Sakashita, Tsutomu; Tomono, Hiroshi; Kimura, Takashi; Machara, Yasuhiro; and Yasumoto, Kunio, to Sumitomo Metal Industries, Ltd. Method of processing continuously cast slabs. 4,709,572, 12-1-87, Cl. 72-366.000.

Yamada, Tutomu, to Mitsubishi Denki Kabushiki Kaisha. Excitation control apparatus for rotary electric machine. 4,713,741, 12-15-87, Cl. 363-50.000.

Yamada, Wataru: *See*—
Tanazawa, Masayoshi; Shoji, Masaru; and Yamada, Wataru, 4,711,584, Cl. 368-88.000.

Yamada, Wazoh: *See*—
Hosoya, Yoshinori; Tunekawa, Shyozi; Yamada, Wazoh; and Shirashi, Akira, 4,637,223, Cl. 62-263.000.

Yamada, Yasuaki: *See*—
Kondo, Hiroatsu; Ozawa, Toshiaki; and Yamada, Yasuaki, 4,655,624, Cl. 400-208.000.
Ozawa, Toshiaki; Yamada, Yasuaki; and Kondo, Hiroatsu, 4,640,634, Cl. 400-144.200.

Yamada, Yasuharu; Komoto, Tadashi; and Koishi, Hidehiko, to Nippon Steel Chemical Co., Ltd. Heat-sensitive recording materials. 4,672,401, 6-9-87, Cl. 503-208.000.

Yamada, Yasuhiro, to Victor Company of Japan, Ltd. Method for recording servo control signals on a magnetic disc. 4,644,416, 2-17-87, Cl. 360-17.000.

Yamada, Yasuhumi: *See*—
Takeuchi, Hirotaka; Asai, Jiro; Yamada, Yasuhumi; and Yanase, Sumio, 4,701,692, Cl. 322-90.000.

Yamada, Yasuo: *See*—
Maeda, Akiya; Sakai, Mituya; Masaka, Yukinobu; Nomura, Masahiro; Yamada, Yasuo; and Tatsuhama, Tetsuro, 4,711,501, Cl. 299-21.000.

Yamada, Yasushi: *See*—
Hirota, Fumiyuki; Miwa, Tadashi; and Yamada, Yasushi, 4,705,265, Cl. 271-122.000.

Yamada, Yasuyoshi: *See*—
Ayata, Naoki; and Yamada, Yasuyoshi, 4,655,599, Cl. 356-401.000.

Yamada, Yasuyuki, to Nikkiso Co., Ltd. Portable and wearable injector of mini size. 4,640,445, 2-3-87, Cl. 222-386.500.

Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Oizumi, Kouji, to Canon Kabushiki Kaisha. Rear conversion lens. 4,643,536, 2-17-87, Cl. 350-422.000.

Yamada, Yasuyuki; and Mukaida, Yoshito, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,664,979, 5-12-87, Cl. 428-413.000.

Yamada, Yasuyuki; Sato, Yasuhisa; Nakayama, Hiroki; and Oizumi, Kouji, to Canon Kabushiki Kaisha. Flash device for camera. 4,702,551, 10-27-87, Cl. 354-126.000.

Yamada, Yasuyuki; Fujibayashi, Kazuo; Sato, Yasuhisa; and Yokota, Hideo, to Canon Kabushiki Kaisha. Varifocal type finder. 4,715,692, 12-29-87, Cl. 350-422.000.

Yamada, Yasuyuki: *See*—
Hanai, Kazuko; and Yamada, Yasuyuki, 4,711,819, Cl. 428-425.900.
Nakayama, Hiroki; Sato, Yasuhisa; and Yamada, Yasuyuki, 4,695,134, Cl. 350-432.000.
Oizumi, Kouji; Sato, Yasuhisa; Yamada, Yasuyuki; and Nakayama, Hiroki, 4,652,091, Cl. 350-427.000.
Sato, Yasuhisa; Yamada, Yasuyuki; and Nakayama, Hiroki, 4,659,186, Cl. 350-423.000.
Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Oizumu, Kouji, 4,679,915, Cl. 350-423.000.
Sato, Yasuhisa; Yamada, Yasuyuki; Nakayama, Hiroki; and Oizumi, Kouji, 4,697,882, Cl. 350-287.000.

Yamada, Yonekazu; Sato, Osamu; and Tanaka, Takemi, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Method of bonding plastic pipes. 4,670,207, 6-2-87, Cl. 264-248.000.

Yamada, Yoshifumi; Tanaka, Kunio; and Abe, Zenwemon, to Utsunomiya University. Method for imaging nuclear magnetic resonance signals by using non-linear magnetic field gradient. 4,651,098, 3-17-87, Cl. 324-309.000.

Yamada, Yoshihiro; Kawamoto, Mutsumi; Iwatsuki, Tatsuya; and Kuramochi, Koujiro, to Aisin-Warner Limited; and Toyota Motor Corporation. One-way clutch mounting means for automatic transmissions. 4,646,890, 3-3-87, Cl. 192-30.00V.

Yamada, Yoshihisa: *See*—
Inoue, Ichizo; Ome, Toyonari; Yamada, Yoshihisa; Ishida, Ryuichi; and Ochiai, Takashi, 4,714,702, Cl. 514-259.000.

Yamada, Yoshikado, to Sharp Kabushiki Kaisha. Copying apparatus. 4,655,581, 4-7-87, Cl. 355-14.00C.

Yamada, Yoshikado, to Sharp Kabushiki Kaisha. Exposure mode selectro for automatically selecting automatic exposure control mode for electrophotographic copying machine. 4,659,209, 4-21-87, Cl. 355-14.00E.

Yamada, Yoshikado, to Sharp Kabushiki Kaisha. Warning device for developer control. 4,669,856, 6-2-87, Cl. 355-3.0DD.

Yamada, Yoshio; and Nakasone, Hidetaka, to Ishikawa Gasket Co. Ltd. Steel laminate gasket with assembly order identification device. 4,648,607, 3-10-87, Cl. 277-235.00B.

Yamada, Yoshitaka: *See*—
Iijima, Toshifumi; Yamada, Yoshitaka; Kumashiro, Kenji; Kamio, Takashi; and Shimura, Shinya, 4,701,404, Cl. 430-559.000.
Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, 4,701,405, Cl. 430-567.000.
Takiguchi, Hideki; Yamada, Yoshitaka; Ohtani, Hirofumi; and Kashiwagi, Hiroshi, 4,704,351, Cl. 430-567.000.

Yamada, Yosuke; and Oogami, Mitsuhiro, to Daiwa Special Chemical Co., Ltd. Washing apparatus. 4,690,158, 9-1-87, Cl. 134-107.000.

Yamada, Yukifumi; Terada, Takami; and Miyagawa, Toshihito, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Seat back reclining mechanism. 4,705,318, 11-10-87, Cl. 297-362.000.

Yamada, Yutaka, to Yutaka Yamada; and Nippondenso Co., Ltd. Check valve assembly for pipeline system. 4,693,269, 9-15-87, Cl. 137-512.100.

Yamafuji, Tetsuo: *See*—
Todo, Yozo; Yamafuji, Tetsuo; Nagumo, Katsuyuki; Kitayama, Isao; Nagaki, Hideyoshi; Miyajima, Mikako; Konishi, Yoshinori; Narita, Hirokazu; Takano, Shuntaro; and Saikawa, Isamu, 4,704,459, Cl. 546-123.000.

Yamaga, Joji: *See*—
Suzuki, Ryushi; and Yamaga, Joji, 4,643,746, Cl. 55-204.000.
Suzuki, Ryushi; and Yamaga, Joji, 4,662,908, Cl. 55-204.000.

Yamaga, Mitsuhiro: *See*—
Nakamura, Kazunori; Yamaga, Mitsuhiro; Yoshino, Ryozo; and Sugimoto, Norihiko, 4,675,884, Cl. 375-87.000.

Yamagami, Kozo, to Mitsubishi Denki Kabushiki Kaisha. Gate turn-off thyristor module. 4,634,891, 1-6-87, Cl. 307-252.00C.

Yamagami, Nobuhiko, to Kabushiki Kaisha Toshiba. Color index conversion system in graphic display device. 4,648,050, 3-3-87, Cl. 364-526.000.

Yamagami, Nobuhiko, to Kabushiki Kaisha Toshiba. Raster operation circuit. 4,703,230, 10-27-87, Cl. 315-364.000.

Yamagata, Hiroshi, to Yamaha Hatsudoki Kabushiki Kaisha. Method for making a composite cylinder block. 4,637,110, 1-20-87, Cl. 29-156.4WL.

Yamagata, Hiroshi, to Yamaha Hatsudoki Kabushiki Kaisha. Method for making a composite engine cylinder block with preformed liner. 4,700,444, 10-20-87, Cl. 29-156.4WL.

Yamagata, Ichiro: *See*—
Sato, Shinsaku; and Yamagata, Ichiro, 4,640,664, Cl. 415-1.000.

Yamagata, Masakazu, to Asahi Kogaku Kogyo Kabushiki Kaisha. Close-up lens system. 4,653,876, 3-31-87, Cl. 350-463.000.

Yamagata, Masato: *See*—
Tsukada, Keizo; and Yamagata, Masato, 4,640,987, Cl. 379-62.000.
Tsukada, Keizo; and Yamagata, Masato, 4,650,931, Cl. 379-61.000.

Yamagata, Seiichi: *See*—
Sakai, Masaaki; and Yamagata, Seiichi, 4,667,703, Cl. 139-20.000.

Yamagata, Shimbu: *See*—
Morishita, Koichi; Omori, Shinji; Yamagata, Shimbu; Yokoyama, Tetsuo; Sano, Koichi; and Ogushi, Akira, 4,644,582, Cl. 382-6.000.
Sano, Koichi; Yokoyama, Tetsuo; Yamagata, Shimbu; and Haruna, Koichi, 4,644,278, Cl. 324-309.000.

Seto, Youichi; Homma, Koichi; Komura, Fuminobu; Yamagata, Shimbu; Kubo, Yutaka; and Mizuno, Hirotaka, 4,682,300, Cl. 364-571.000.

Yamagata, Shinji: *See*—
Matsumoto Yoshiaki; Yamagata, Shinji; and Sugihara, Kazuyoshi, 4,695,814, Cl. 337-77.000.

Yamagata, Taizo; Uchikawa, Takaaki; Yamamoto, Shinichi; Tomikawa, Shinichiro; Ogasahara, Yoshio; and Sukagawa, Masaru, to Shimizu Kensetsu Kabushiki Kaisha. Clean room. 4,694,736, 9-22-87, Cl. 98-31.600.

Yamagata, Tetsuo, to Honda Giken Kogyo Kabushiki Kaisha. Ignition system. 4,672,941, 6-16-87, Cl. 123-602.000.

Yamagata, Toshihiro: *See*—
Yamazaki, Michio; Yamagata, Toshihiro; and Harada, Hiroshi, 4,707,192, Cl. 148-3.000.

Yamagata, Tsuneaki: *See*—
Otsuka, Seinosuke; Tani, Kazuhide; Yamagata, Tsuneaki; Akutagawa, Susumu; Kumobayashi, Hidenori; and Yagi, Misao, 4,695,631, Cl. 544-170.000.

Yamagawa, Masato; and Tsukada, Keizo, to Sony Corporation. Cordless telephone. 4,639,550, 1-27-87, Cl. 379-62.000.

Yamagishi, Frederick G.: *See*—
Grinberg, Jan; and Yamagishi, Frederick G., 4,697,247, Cl. 364-713.000.

Yamagishi, Fumio: *See*—
Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Watanuki, Hiroshi; Ishii, Mitsuharu; Sebata, Ichiro; and Inagaki, Takefumi, 4,647,143, Cl. 350-3.710.
Yamazaki, Kozo; Yamagishi, Fumio; Ikeda, Hiroyuki; Inagaki, Takefumi; Sebata, Ichiro; Kitagawa, Shunji; Kato, Masayuki; and Ichikawa, Toshiyuki, 4,655,541, Cl. 350-3.710.

Yamagishi, Hideaki; and Oshimi, Tetsuro, to Mitsubishi Denki Kabushiki Kaisha. Memory bank switching apparatus. 4,713,759, 12-15-87, Cl. 364-200.000.

Yamagishi, Hideki: *See*—
Nakahara, Yasuzi; Yamagishi, Hideki; and Kirimura, Shun-ichiro, 4,675,233, Cl. 428-323.000.

Yamagishi, Hideo: *See*—
Hamakawa, Yoshihiro; Yamagishi, Hideo; and Tawada, Yoshihisa, 4,634,601, Cl. 427-39.000.

Yamagishi, Hideshi: *See*—
Wakayama, Naoaki; Yamagishi, Hideshi; Fukakusa, Shinji; and Tomoda, Toshimasa, 4,682,036, Cl. 250-374.000.

Yamagishi, Hiroaki: *See*—
Asano, Masao; Isobe, Ryosuke; Yamauchi, Yasuhisa; and Yamagishi, Hiroaki, 4,713,293, Cl. 428-403.000.

Yamagishi, Hiroshi: *See*—
Oikawa, Shoji; Yamagishi, Hiroshi; Saito, Shigeru; Fujita, Tsuyoshi; and Watanabe, Takayoshi, 4,713,494, Cl. 174-68.500.

Yamagishi, Jun; and Nishikawa, Hiromitu, to Ohi Seisakusho Co., Ltd. Automatic sliding door system for vehicles. 4,640,050, 2-3-87, Cl. 49-280.000.

Yamagishi, Jun: *See*—
Kobayashi, Fumio; and Yamagishi, Jun, 4,633,613, Cl. 49-227.000.

Yamagishi, Kagari: *See*—
Ito, Yasuo; Kato, Hideo; Ogawa, Nobuo; Yamagishi, Kagari; Koshinaka, Eiichi; and Nishino, Hiroyuki, 4,638,009, Cl. 514-428.000.

Yamagishi, Kenichi; and Mori, Katsuyuki, to Miyakoshi Printing Machinery Co., Ltd. Easy-to-clean inking mechanism for a printing press. 4,643,092, 2-17-87, Cl. 101-350.000.

Yamagishi, Koji; Fuse, Takahiro; Kawamura, Masao; and Matsui, Shinichi, to Casio Computer Co., Ltd. Television video signal A/D converter. 4,642,694, 2-10-87, Cl. 358-236.000.

Yamagishi, Koji: *See*—
Fuse, Takahiro; Kawamura, Masao; Yamagishi, Koji; Odachi, Kazuyuki; Ono, Haruo; and Kizaki, Masaharu, 4,642,693, Cl. 358-236.000.

Yamagishi, Makoto: *See*—
Horigome, Hidekazu; Onishi, Takahiro; and Yamagishi, Makoto, 4,651,559, Cl. 73-40.50R.
Kamon, Yoshiyuki; Yamagishi, Makoto; and Watanabe, Shingo, 4,646,872, Cl. 181-129.000.

Yamagishi, Masaaki: *See*—
Inoue, Yasuo; Yonekubo, Ken; Yamagishi, Masaaki; and Endo, Itaru, 4,685,776, Cl. 350-502.000.

Yamagishi, Michio: *See*—
Watanabe, Naoharu; Numata, Kazuo; Yamagishi, Michio; Mizutani, Taku; Omura, Sadafumi; and Yamaguchi, Hideyo, 4,680,311, Cl. 514-561.000.

Yamagishi, Naomichi; Mori, Kenji; Okumura, Tsuguo; Hiratsuka, Tatsufumi; and Sugiyama, Masayoshi, to Mitsubishi Monsanto Chemical Company. Method of heating thermoplastic resin sheet or film. 4,634,840, 1-6-87, Cl. 219-388.000.

Yamagishi, Naomichi: *See*—
Okumura, Tsuguo; Yamagishi, Naomichi; Abe, Kazuharu; Sugiyama, Masayoshi; and Mori, Kenji, 4,698,195, Cl. 264-235.800.

Yamagishi, Nobuyuki: *See*—
Matsuo, Masashi; Yamagishi, Nobuyuki; Noshiro, Makoto; Jitsugiri, Yukio; and Ohnishi, Keiichi, 4,687,707, Cl. 428-336.000.

Yamagishi, Ryoji: *See*—
Kobayashi, Osamu; Akagawa, Masaki; Tanaka, Masanori; Ishii, Jun; and Yamagishi, Ryoji, 4,706,202, Cl. 364-479.000.

Yamagishi, Seiichi: *See*—
Toriumi, Shiro; Yamagishi, Seiichi; Yamakoshi, Yukiyoshi; Ishii, Kenjiro; and Maeda, Yutaka, 4,665,408, Cl. 346-134.000.

Yamagishi, Takashi; and Ohsawa, Masaru, to Komatsu Forklift Kabushiki Kaisha. Mast assembly for a forklift. 4,635,757, 1-13-87, Cl. 187-9.00E.

Yamagishi, Takashi: *See*—
Nishii, Junji; and Yamagishi, Takashi, 4,708,942, Cl. 501-40.000.

Yamagishi, Tooru, to Victor Company of Japan, Ltd. Digital signal decoding system. 4,683,571, 7-28-87, Cl. 371-37.000.

Yamagishi, Tooru: *See*—
Shichijo, Shunichi; Yamagishi, Tooru; and Machida, Toyotaka, 4,656,528, Cl. 358-342.000.
Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Ishi, Yoshinao; Ishii, Kazuyoshi; and Hirata, Atsumi, 4,695,904, Cl. 358-342.000.
Shinyagaito, Tatsuya; Kuramoto, Terumasa; Machida, Toyotaka; Saito, Kikuji; Shichijo, Shunichi; Yamagishi, Tooru; Ishi, Kazuyoshi; Kobayashi, Yoshinao; and Hirata, Atsumi, 4,707,730, Cl. 358-342.000.

Yamagishi, Toshio, to Sharp Kabushiki Kaisha. Electric element breakdown detector. 4,654,645, 3-31-87, Cl. 340-635.000.

Yamagishi, Toshio; and Fujiwara, Katsuyoshi, to Sharp Kabushiki Kaisha. Copying apparatus having a controlled scanning speed according to a copying magnification. 4,714,941, 12-22-87, Cl. 355-8.000.

Yamagishi, Tsukasa: *See*—
Fujie, Akira; and Yamagishi, Tsukasa, 4,644,013, Cl. 521-60.000.

Yamagishi, Wataru; and Sagawa, Masato, to Fujitsu Limited. Material for temperature sensitive elements. 4,710,242, 12-1-87, Cl. 148-301.000.

Yamagishi, Yasufumi, to Sanyo Electric Co., Ltd. Escutcheon and mounting structure for a cathode ray tube. 4,651,256, 3-17-87, Cl. 361-423.000.

Yamagishi, Yasuo: *See*—
Sawatari, Norio; Yamagishi, Yasuo; Ebisu, Katsuji; Katagiri, Yoshimichi; and Narusawa, Toshiaki, 4,699,863, Cl. 430-97.000.

Yamagishi, Yoshitaka: *See*—
Miyamoto, Akira; Nishimura, Toshiaki; Yamagishi, Yoshitaka; and Higuchi, Yasumitsu, 4,689,392, Cl. 528-247.000.

Yamagishi, Yukio: *See*—
Mio, Kohei; Yamagishi, Yukio; Ishikawa, Hiroshi; Fukakusa, Mitsuo; and Takahashi, Shigeyuki, 4,699,543, Cl. 404-109.000.

Yamagiwa, Tokio; Ishikawa, Toshio; and Endo, Fumihiro, to Hitachi, Ltd. Conductor supporting apparatus for gas insulated equipment. 4,672,150, 6-9-87, Cl. 174-14.00R.

Yamagiwa, Tokio: *See*—
Ishikawa, Toshio; Endo, Fumihiro; Yamagiwa, Tokio; and Kamata, Yuzuru, 4,667,061, Cl. 174-14.00R.

Yamagiwa, Toshio: *See*—
Koga, Noritaka; and Yamagiwa, Toshio, 4,699,233, Cl. 180-219.000.

Yamaguchi, Akihiro: *See*—
Ibi, Akira; Sato, Takushi; Yamaguchi, Akihiro; Takahashi, Shigeo; Shishido, Shigeyuki; Tamai, Shoji; and Nakajima, Hisa, 4,687,836, Cl. 528-353.000.
Mita, Ryuichi; Katoh, Toshio; Higuchi, Chojiro; and Yamaguchi, Akihiro, 4,675,439, Cl. 562-443.000.
Tanabe, Yoshimitsu; Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Sugimoto, Kenichi; and Yamaguchi, Akihiro, 4,701,567, Cl. 568-719.000.
Yamaguchi, Keizaburo; Sugimoto, Kenichi; Tanabe, Yoshimitsu; Yamazaki, Midori; and Yamaguchi, Akihiro, 4,671,890, Cl. 252-182.000.
Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Tanabe, Yoshimitsu; Sugimoto, Kenichi; and Yamaguchi, Akihiro, 4,692,554, Cl. 564-430.000.

Yamaguchi, Akio; and Yoshikawa, Kazushi, to Honda Giken Kogyo Kabushiki Kaisha. Pallet for material handling. 4,714,026, 12-22-87, Cl. 108-51.100.

Yamaguchi, Akira; Kamuro, Setsufumi; and Sakamoto, Jitsuo, to Sharp Kabushiki Kaisha. Serial data transfer circuits for delayed output. 4,672,647, 6-9-87, Cl. 377-77.000.

Yamaguchi, Akira: *See*—
Hirano, Takaaki; Kamuro, Setsufumi; Yamaguchi, Akira; Tanimoto, Junichi; and Okada, Makio, 4,694,393, Cl. 364-200.000.
Ise, Yoji; Kanno, Teruo; and Yamaguchi, Akira, 4,687,021, Cl. 137-526.000.
Yamada, Sadao; Takayama, Takeshi; Seshimoto, Osamu; and Yamaguchi, Akira, 4,683,048, Cl. 204-416.000.

Yamaguchi Cinema Corporation: *See*—
Yamaguchi, Yoshihisa, 4,637,701, Cl. 352-218.000.

Yamaguchi, Elaine S.; and Liston, Thomas V., to Chevron Research Company. Lubricating oil compositions containing overbased calcium sulfonates and metal salts of alkyl catechol dithiophosphoric acid. 4,668,409, 5-26-87, Cl. 252-32.70E.

Yamaguchi, Fumio; Nakaniwa, Yoshiaki; Masuda, Yoshiaki; Sakura, Hisayuki; and Nakashima, Waichiro, to Honda Giken Kogyo Kabushiki Kaisha. Method of producing fiber-reinforced composite body. 4,633,931, 1-6-87, Cl. 164-110.000.

Yamaguchi, Fumio: *See*—
Yamanaka, Toshio; and Yamaguchi, Fumio, 4,710,479, Cl. 501-15.000.

Yamaguchi, Goichi: *See*—
Kurashima, Akira; Machiya, Akira; and Yamaguchi, Goichi, 4,654,428, Cl. 556-414.000.

Yamaguchi, Haruo: *See*—
Mizuguchi, Hideki; Yamaguchi, Haruo; Hanada, Seigo; and Mukuda, Nobuo, 4,679,461, Cl. 74-665.0GA.

Yamaguchi, Hideyo: *See*—
Watanabe, Naoharu; Numata, Kazuo; Yamagishi, Michio; Mizutani, Taku; Omura, Sadafumi; and Yamaguchi, Hideyo, 4,680,311, Cl. 514-561.000.

Yamaguchi, Hiroaki: *See*—
Yorinaga, Muneo; Yokoiwa, Sumiharu; and Yamaguchi, Hiroaki, 4,658,650, Cl. 73-654.000.

Yamaguchi, Hirohisa; and Yamada, Kazuo, to Kokusai Denshin Denwa Co., Ltd. Embedding quantization system for vector signals, 4,639,778, 1-27-87, Cl. 358-135.000.

Yamaguchi, Hirohisa; Wada, Masahiro; and Yamamoto, Hideo, to Kokusai Denshin Denwa Co., Ltd. Frame rate conversion system in television signal, 4,672,442, 6-9-87, Cl. 358-140.000.

Yamaguchi, Hirohisa: *See*—
Wada, Masahiro; and Yamaguchi, Hirohisa, 4,695,882, Cl. 358-136.000.

Yamaguchi, Hiromasa: *See*—
Watanabe, Kiuchiro; Horiai, Kunio; Mashiko, Tomoyuki; Kato, Hitoshi; Yamaguchi, Hiromasa; and Nishiyama, Toshihiko, 4,679,992, Cl. 417-364.000.

Yamaguchi, Hiroshi; Tanaka, Teruaki; Hirai, Masatake; Kohketsu, Tadashi; Matsumoto, Masahiro; and Kawate, Kenji, to Allied Corporation, Annealing furnace for annealing magnetic cores in a magnetic field, 4,649,248, 3-10-87, Cl. 219-10.570.

Yamaguchi, Hiroshi, to Hitachi, Ltd. Steam introducing part structure of steam turbine, 4,697,983, 10-6-87, Cl. 415-134.000.

Yamaguchi, Hiroshi: *See*—
Kimura, Suzushi; and Yamaguchi, Hiroshi, 4,671,112, Cl. 73-505.000.
Miyauchi, Tateoki; Yamaguchi, Hiroshi; Hongo, Mikio; Mizukoshi, Katsuro; Shimase, Akira; and Satoh, Ryohei, 4,687,939, Cl. 250.492.200.
Osono, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Saito, Takeshi; Gushima, Hiroshi; Murakami, Keisuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Susaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Toshiaki, 4,656,262, Cl. 540-221.000.
Shimase, Akira; Yamaguchi, Hiroshi; Haraichi, Satoshi; and Miyauchi, Tateoki, 4,683,378, Cl. 250-492.200.

Yamaguchi, Hirotsugu; Fukushima, Naoto; Akatsu, Yohsuke; and Hano, Sunao, to Nissan Motor Company, Limited. Positively controller automotive suspension system, 4,702,490, 10-27-87, Cl. 280-707.000.

Yamaguchi, Hirotsugu: *See*—
Akatsu, Yousuke; Yamaguchi, Hirotsugu; Fukushima, Naoto; Hano, Sunao; Sugino, Masaru; Takehara, Shin; and Matsui, Shinichi, 4,693,491, Cl. 280-688.000.
Nakata, Moritsune; Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Higuchi, Megumu; Aoyama, Yutaka; and Shibahata, Yasuji, 4,634,135, Cl. 280-90.000.
Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Nakayama, Masafumi; Higuchi, Megumu; Aoyama, Yutaka; and Nakata, Moritsune, 4,669,360, Cl. 91-382.000.

Yamaguchi, Hiroyuki: *See*—
Moriya, Mitsuro; Shiragami, Kazuharu; and Yamaguchi, Hiroyuki, 4,692,915, Cl. 369-53.000.

Yamaguchi, Hisashi; Takahara, Kazuhiro; Gondoh, Hiroyuki; Kawada, Toyoshi; and Andoh, Shizuo, to Fujitsu Limited. Method for driving a matrix type display, 4,636,789, 1-13-87, Cl. 340-805.000.

Yamaguchi, Hisashi: *See*—
Suzuki, Akio; Koitabashi, Takeo; Iwata, Masatoshi; Yamaguchi, Hisashi; and Matsuzaka, Syoji, 4,680,252, Cl. 430-364.000.
Yoshikawa, Kazuo; Asano, Toru; Yamaguchi, Hisashi; Takizawa, Hideaki; and Andoh, Shizuo, 4,680,430, Cl. 178-19.000.

Yamaguchi, Hitoshi: *See*—
Yamamura, Sakae; and Yamaguchi, Hitoshi, 4,646,651, Cl. 104-281.000.

Yamaguchi, Ikutoshi; Kashiwagi, Katsuhiko; Goto, Hideo; and Inoue, Susumu, to Bridgestone Corporation. Corrosion-preventing structure, 4,634,626, 1-6-87, Cl. 428-312.400.

Yamaguchi, Isaburo, to Kitate Sangyo Co., Ltd. Burning wick for oil burning apparatus, 4,652,235, 3-24-87, Cl. 431-325.000.

Yamaguchi, Isao; and Tada, Osamu, to Isuzu Motors, Ltd. Vehicle gear shift lever locking apparatus, 4,671,085, 6-9-87, Cl. 70-248.000.

Yamaguchi, Junichi: *See*—
Akai, Takayuki; and Yamaguchi, Junichi, 4,706,205, Cl. 364-518.000.

Yamaguchi, Kaneo: *See*—
Tanaka, Fumihiro; Shimada, Yoshio; Yamaguchi, Kaneo; Matsushima, Kenichi; and Watanabe, Shinya, 4,713,691, Cl. 358-148.000.
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Yamaguchi, Katsuhisa: *See*—
Yamada, Tadashi; and Yamaguchi, Katsuhisa, 4,665,205, Cl. 549-509.000.

Yamaguchi, Katsumasa: *See*—
Masaki, Takeshi; Kawata, Koichi; Sakagaito, Yukuo; Yamaguchi, Katsumasa; Kinoshiro, Hiromichi; and Toba, Hiroto, 4,701,591, Cl. 219-121.01.T.

Yamaguchi, Katsumi; Yokoi, Syouichiro; Kanai, Takao; and Yoshikawa, Kikuo, to Clarion Co., Ltd. Mode switching over gear mechanism for reel, 4,708,302, 11-24-87, Cl. 242-204.000.

Yamaguchi, Katsunobu: *See*—
Kudo, Yoshio; Kumagai, Hirohiko; Yamaguchi, Katsunobu; and Wakamatsu, Saburo, 4,650,287, Cl. 350-322.000.

Yamaguchi, Katsunori; and Takemoto, Nagaaki, to Japan Tobacco Inc. Cigarette, 4,679,575, 7-14-87, Cl. 131-365.000.

Yamaguchi, Kazufumi: *See*—
Oshima, Mitsuaki; and Yamaguchi, Kazufumi, 4,638,362, Cl. 358-213.000.

Yamaguchi, Kazuo: *See*—
Kawauchi, Hiroshi; Yamaguchi, Kazuo; and Shirahata, Kunikatsu, 4,645,755, Cl. 514-12.000.
Kuni, Asahiro; Yamaguchi, Kazuo; Akiyama, Nobuyuki; and Endo, Juro, 4,647,196, Cl. 356-237.000.

Yamaguchi, Keiji; and Ishizaka, Hideo, to Terumo Corporation. Method and apparatus for measuring circulatory function, 4,677,983, 7-7-87, Cl. 128-680.000.

Yamaguchi, Keiji, to Terumo Corporation. Blood pressure measuring apparatus, 4,712,564, 12-15-87, Cl. 128-682.000.

Yamaguchi, Keiki; Inoue, Yuji; Iwaoka, Hideto; and Sugiyama, Tadashi, to Yokogawa Hokushin Electric Corporation; and Yokogawa Medical Systems Limited. NMR image forming apparatus, 4,663,592, 5-5-87, Cl. 324-315.000.

Yamaguchi, Keiki; Hoshino, Kazuya; and Iwaoka, Hideto, to Yokogawa Hokushin Electric Corporation; and Yokogawa Medical Systems, Limited. NMR apparatus compensated for primary field changes, 4,684,889, 8-4-87, Cl. 324-308.000.

Yamaguchi, Keiki; Iwaoka, Hideto; Sugiyama, Tadashi; and Inoue, Yuji, to Yokogawa Electric Corporation; and Yokogawa Medical Systems, Limited. NMR imaging apparatus, 4,700,136, 10-13-87, Cl. 324-309.000.

Yamaguchi, Keiki; and Tomita, Shozo, to Yokogawa Medical Systems, Limited. CRT multiformat camera, 4,709,271, 11-24-87, Cl. 358-244.000.

Yamaguchi, Keizaburo; Sugimoto, Kenichi; Tanabe, Yoshimitsu; Yamazaki, Midori; and Yamaguchi, Akihiro, to Mitsui Toatsu Chemicals, Inc. Aminobenzylamine composition, 4,671,890, 6-9-87, Cl. 252-182.000.

Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Tanabe, Yoshimitsu; Sugimoto, Kenichi; and Yamaguchi, Akihiro, to Mitsui Toatsu Chemicals, Inc. Process for producing 1,3-bis(3-aminophenoxy)benzene, 4,692,554, 9-8-87, Cl. 564-430.000.

Yamaguchi, Keizaboro: *See*—
Tanabe, Yoshimitsu; Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Sugimoto, Kenichi; and Yamaguchi, Akihiro, 4,701,567, Cl. 568-719.000.

Yamaguchi, Ken, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle, 4,641,721, 2-10-87, Cl. 180-229.000.

Yamaguchi, Ken; to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle radiator, 4,660,624, 4-28-87, Cl. 165-41.000.

Yamaguchi, Kichiro: *See*—
Mavuda, Teruo; and Yamaguchi, Kichiro, 4,656,998, Cl. 128-57.000.
Masuda, Teruo; and Yamaguchi, Kichiro, 4,662,362, Cl. 128-33.000.

Yamaguchi, Kimiaki; Nitta, Masahiro; Inoue, Kazuyuki; Hirose, Teruo; and Toda, Yoshihiro, to Matsushita Electric Industrial Co., Ltd. Microwave oven having an electromagnetic energy seal, 4,659,891, 4-21-87, Cl. 219-10.55D.

Yamaguchi, Kimiaki; and Hirai, Kazumi, to Matsushita Electric Industrial Co., Ltd. Cooking appliance with self-contained weighing system, 4,675,510, 6-23-87, Cl. 219-518.000.

Yamaguchi, Kimitoshi: *See*—
Tosaka, Hachiro; Yamaguchi, Kimitoshi; and Orihara, Motoi, 4,670,358, Cl. 430-106.600.

Yamaguchi, Kiyoshi: *See*—
Kitamura, Makoto; and Yamaguchi, Kiyoshi, 4,697,796, Cl. 267-35.000.
Nobuhara, Masahiro; Kanamori, Toshinori; Yamaguchi, Kiyoshi; and Mochida, Ei, 4,680,261, Cl. 435-68.000.

Yamaguchi, Kiyoto: *See*—
Kazama, Toyoki; Aizawa, Koichi; Yamaguchi, Kiyoto; Hara, Kenichi; and Iijima, Toshiyuki, 4,675,265, Cl. 430-67.000.

Yamaguchi, Kohichi: *See*—
Satou, Mamoru; and Yamaguchi, Kohichi, 4,656,052, Cl. 427-38.000.

Yamaguchi, Koichi: *See*—
Fujiki, Hironao; Yamaguchi, Koichi; and Yamamoto, Yasushi, 4,673,621, Cl. 428-420.000.
Takago, Toshio; Yamamoto, Yasushi; Yamaguchi, Koichi; and Kato, Hideto, 4,652,663, Cl. 549-215.000.

Yamaguchi, Kouichi: *See*—
Satou, Mamoru; and Yamaguchi, Kouichi, 4,657,774, Cl. 427-38.000.
Satou, Mamoru; and Yamaguchi, Kouichi, 4,676,194, Cl. 118-720.000.

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Yamaguchi, Kouji: *See*—
Furumoto, Mitsumasa; Yamaguchi, Kouji; Kawahara, Eiichiro; and Ikejiri, Kenichi, 4,646,520, Cl. 60-469.000.
Nishikawa, Masao; Yamaguchi, Kouji; Sakurai, Yoshimi; and Aoki, Takashi, 4,655,330, Cl. 192-3.300.

Yamaguchi, Kouki: *See*—
Suzuki, Masami; Yamaguchi, Kouki; Katayama, Hisato; Muta, Tadayoshi; Okubo, Masakuni; Mochizuki, Akira; and Adachi, Hiroshi, 4,699,640, Cl. 55-385.00A.

Yamaguchi, Kunihiko: *See*—
Honma, Noriyuki; Nambu, Hiroaki; Yoshida, Isao; Higuchi, Hisayuki; and Yamaguchi, Kunihiko, 4,642,486, Cl. 307-463.000.
Yamaguchi, Masahiko: *See*—
Baba, Yoshihiko; and Yamaguchi, Masahiko, 4,698,632, Cl. 342-17.000.
Yamaguchi, Masami: Lampshade. 4,654,767, 3-31-87, Cl. 362-352.000.
Yamaguchi, Masami: *See*—
Nitta, Koichi; Kabuta, Kazuma; Yamaguchi, Masami; Nakagawa, Tadahiro; and Moriyasu, Katsuyuki, 4,664,943, Cl. 427-58.000.
Yamaguchi, Masao: *See*—
Kambara, Yoshihiko; Asano, Shiro; Isozaki, Wataru; Kitado, Syoji; and Yamaguchi, Masao, 4,670,590, Cl. 564-206.000.
Yamaguchi, Masashi: *See*—
Yamazaki, Etuo; and Yamaguchi, Masashi, 4,679,159, Cl. 364-560.000.
Yamaguchi, Masaya: *See*—
Watanabe, Kenshu; Shiba, Kimmori; Arai, Mikiya; Yamaguchi, Masaya; Fujiki, Yasuo; and Fujimoto, Ryohei, 4,648,480, Cl. 181-158.000.
Yamaguchi, Masayasu: *See*—
Kawaguchi, Yukio; and Yamaguchi, Masayasu, 4,650,774, Cl. 501-87.000.
Sawamura, Kentaro; Kosaka, Yoshio; and Yamaguchi, Masayasu, 4,672,046, Cl. 501-98.000.
Sawamura, Kentaro; Kosaka, Yoshio; and Yamaguchi, Masayasu, 4,711,861, Cl. 501-98.000.
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, to Toshiba Ceramics Co., Ltd. Alumina formed body and method for its manufacture. 4,670,320, 6-2-87, Cl. 428-141.000.
Yamaguchi, Masayoshi; Meguro, Kazunori; Matsuo, Shuitsu; and Sasaki, Yasumi, to Toshiba Ceramics Co, Ltd. Alumina composite body and method for its manufacture. 4,673,435, 6-16-87, Cl. 75-235.000.
Yamaguchi, Masayoshi: *See*—
Sonoda, Shinji; Ozaki, Norihiko; Watahiki, Seishi; Sakuma, Yasuzi; and Yamaguchi, Masayoshi, 4,644,791, Cl. 73-432.100.
Yamaguchi, Masayuki, to NEC Corporation. Distributed-feedback semiconductor laser. 4,704,720, 11-3-87, Cl. 372-96.000.
Yamaguchi, Minori: *See*—
Takada, Jun; Yamaguchi, Minori; and Tawada, Yoshihisa, 4,665,278, Cl. 136-256.000.
Yamaguchi, Minoru: *See*—
Ito, Kazuhiko; Yonehara, Jun; Tanigawa, Yoshinari; and Yamaguchi, Minoru, 4,651,814, Cl. 165-47.000.
Yamaguchi, Mitsuhiro, to Morito Co., Ltd. Golf shoe spike. 4,667,422, 5-26-87, Cl. 36-67.00A.
Yamaguchi, Mitsuhiro, to Morito Co., Ltd. Baseball shoe. 4,674,207, 6-23-87, Cl. 36-126.000.
Yamaguchi, Morio, to Max Co., Ltd. Printing wire driving device in wire dot printer. 4,711,170, 12-8-87, Cl. 101-93.050.
Yamaguchi, Namio: *See*—
Fujita, Masaaki; Sasaki, Mikio; Goto, Teruo; and Yamaguchi, Namio, 4,644,349, Cl. 340-825.250.
Yamaguchi, Naoko: *See*—
Saito, Junichi; Tamura, Tatsuo; Karahashi, Yoshio; Uzawa, Shigeru; Matsumoto, Noboru; and Yamaguchi, Naoko, 4,710,509, Cl. 514-384.000.
Yamaguchi, Noboru, to Kabushiki Kaisha Toshiba. Flat panel display control apparatus. 4,716,405, 12-29-87, Cl. 340-723.000.
Yamaguchi, Noboru: *See*—
Funabashi, Tsuneo; Iwasaki, Kazuhiko; Yamaguchi, Noboru; Shimura, Takanori; and Tatezaki, Junichi, 4,674,037, Cl. 364-200.000.
Yamaguchi, Nobu: *See*—
Ogasawara, Masafumi; Yamaguchi, Nobu and Moriki, Yoshikazu, 4,648,826, Cl. 425-192.00S.
Yamaguchi, Nobuo: *See*—
Enoki, Shigenaga; Yoshio, Kazuya; and Yamaguchi, Nobuo, 4,696,364, Cl. 180-228.000.
Yamaguchi, Nobutaka; Iida, Shinobu; Nasu, Norio; Ryoke, Katsumi; Okutu, Toshimitu; and Masuyama, Kenichi, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,647,501, 3-3-87, Cl. 428-323.000.
Yamaguchi, Nobutaka; Fujiyama, Masaaki; Kato, Kazuo; and Kashiwagi, Akira, to Fuji Photo Film Co., Ltd. Magnetic recording medium including magnetic layer with carbon black particles and a fatty acid ester. 4,647,503, 3-3-87, Cl. 428-323.000.
Yamaguchi, Nobutaka; Miyoshi, Takahito; Okutu, Toshimitu; Hibino, Noburo; Tadokoro, Eiichi; and Fujiyama, Masaaki, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,650,720, 3-17-87, Cl. 428-480.000.
Yamaguchi, Nobutaka; Iida, Shinobu; Utsumi, Masahiro; Nasu, Norio; and Tadokoro, Eiichi, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,663,217, 5-5-87, Cl. 428-212000.
Yamaguchi, Nobutaka: *See*—
Fujiyama, Masaaki; Tsuji, Nobuo; and Yamaguchi, Nobutaka, 4,668,568, Cl. 428-323.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,649,072, Cl. 428-212.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,686,139, Cl. 428-323.000.
Ryoke, Katsumi; Yamaguchi, Nobutaka; Takahashi, Masatoshi; Hanai, Kazuko; Kosha, Hideaki; and Tadokoro, Eiichi, 4,696,858, Cl. 428-323.000.
Yamaguchi, Nobuyuki: *See*—
Kaneko, Kyoichi; and Yamaguchi, Nobuyuki, 4,702,432, Cl. 242-84.50A.
Yamaguchi, Noriaki; Sugano, Shozo; and Enomoto, Kayo, to House Food Industrial Company Limited. Process for preparing dried pre-gelatinized cereal grain. 4,707,371, 11-17-87, Cl. 426-462.000.
Yamaguchi, Ryuji: *See*—
Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; and Matsuo, Kazuhiko, 4,650,517, Cl. 75-10.450.
Matsuo, Kazuhiko; Hasegawa, Teruyuki; Kuwano, Seigo; Yamaguchi, Ryuji; Shiwata, Akio; Hamada, Yoneichi; Komatsu, Yoshimi; Kondo, Tsuneo; Shirotani, Yusuke; Nakashima, Hirohisa; and Matsuda, Yasuhiro, 4,674,101, Cl. 373-95.000.
Yamaguchi, Sadaatsu: *See*—
Nakagawa, Shinichi; Nakagawa, Tsuneo; Amano, Toshihiko; Omori, Mitsugu; Yamaguchi, Sadaatsu; and Asano, Kan, 4,703,095, Cl. 526-247.000.
Yamaguchi, Seiji; Ichinohe, Eisuke; and Katsura, Johji, to Matsushita Electric Industrial Co., Ltd. Static random access memory. 4,712,195, 12-8-87, Cl. 365-203.000.
Yamaguchi, Seiji: *See*—
Suzuki, Yoshio; and Yamaguchi, Seiji, 4,678,052, Cl. 180-143.000.
Tsuji, Kazuhiko; Yamaguchi, Seiji; and Ichinohe, Eisuke, 4,672,584, Cl. 365-226.000.
Yamaguchi, Shigeri: *See*—
Taniguchi, Koki; Yamaguchi, Shigeri; and Nakayama, Keiji, 4,639,062, Cl. 339-59.00M.
Yamaguchi, Shigeru: *See*—
Fukuchi, Shuzo; and Yamaguchi, Shigeru, 4,691,045, Cl. 560-185.000.
Yamaguchi, Shingo, to Ricoh Company, Ltd. Addresser designation character pattern generation apparatus for facsimile transmission. 4,644,319, 2-17-87, Cl. 340-731.000.
Yamaguchi, Shingo, to Ricoh Company, Ltd. Facsimile transmission system. 4,651,221, 3-17-87, Cl. 358-260.000.
Yamaguchi, Shingo, to Ricoh Company, Ltd. Ringing detection circuit. 4,679,229, 7-7-87, Cl. 379-373.000.
Yamaguchi, Shogo; and Yoshikawa, Enichi, to Mitsubishi Jukogyo Kabushiki Kaisha. Apparatus for mixing liquid. 4,669,885, 6-2-87, Cl. 366-177.000.
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Yamaguchi, Shoji; and Yamada, Kimiko, to Mitsubishi Petrochemical Co., Ltd. Copper-type conductive coating composition. 4,663,076, 5-5-87, Cl. 252-512.000.
Yamaguchi, Shoji; and Yamada, Kimiko, to Mitsubishi Petrochemical Co., Ltd. Copper-type conductive coating composition. 4,705,647, 11-10-87, Cl. 252-512.000.
Yamaguchi, Shunzo: *See*—
Kobayashi, Akihiro; Yamaguchi, Shunzo; Kobayashi, Kiyomi; and Takaba, Hiroaki, 4,639,712, Cl. 338-238.000.
Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo; Yoshida, Ichirou; and Atsumi, Morihiro, 4,681,959, Cl. 200-19.00R.
Yamada, Manabu; Yoshida, Ichirou; Yamaguchi, Shunzo; and Atsumi, Morihiro, 4,713,582, Cl. 315-58.000.
Yoshida, Ichirou; Atsumi, Morihiro; Nakamura, Naotaka; Yagi, Kenji; Yamaguchi, Shunzo; and Yamada, Manabu, 4,640,996, Cl. 200-19.00R.
Yamaguchi, Shuuji: *See*—
Kato, Hisaaki; Yamaguchi, Shuuji; and Okazaki, Toshiharu, 4,702,515, Cl. 296-189.000.
Yamaguchi, Soji: *See*—
Ueno, Michio; Miyagi, Toshimi; and Yamaguchi, Soji, 4,639,663, Cl. 323-356.000.
Yamaguchi, Susumu: *See*—
Watanabe, Tetsumi; Yamaguro, Akira; and Yamaguchi, Susumu, 4,639,212, Cl. 431-183.000.
Yamaguchi, Tadanobu: *See*—
Izuwa, Akio; and Yamaguchi, Tadanobu, 4,697,060, Cl. 219-121.0ED.
Yamaguchi, Tadashi: *See*—
Sakamoto, Hiroshi; Torigoe, Toshihiro; and Yamaguchi, Tadashi, 4,716,291, Cl. 250-318.000.
Yamaguchi, Takaharu: *See*—
Tsuge, Eiji; Yanagisawa, Taminori; Yamaguchi, Takaharu; and Fukatsu, Hiroshi, 4,634,338, Cl. 414-752.000.
Yamaguchi, Takao: *See*—
Yamada, Kazutoshi; and Yamaguchi, Takao, 4,713,760, Cl. 364-405.000.
Yamaguchi, Takashi, to NEC Corporation. Memory circuit with an improved output control circuit. 4,635,234, 1-6-87, Cl. 365-233.000.
Yamaguchi, Takashi; Nagasawa, Naomi; and Tamura, Hidemasa, to Sony Corporation. Ceramic substrate of Na_2O and Nb_2O_5 for magnetic metal thin film. 4,639,400, 1-27-87, Cl. 428-694.000.
Yamaguchi, Takashi; Nagasawa, Naomi; and Tamura, Hidemasa, to Sony Corporation. Ceramic substrate of Na_2O and Ta_2O_5 for thin film magnetic head. 4,650,726, 3-17-87, Cl. 428-694.000.
Yamaguchi, Takashi; Nakamura, Shinichi; and Oshima, Takafumi, to NGK Spark Plug Co., Ltd. Spark plug and its electrode configuration. 4,700,103, 10-13-87, Cl. 313-141.000.
Yamaguchi, Takashi; Ishiguchi, Isao; and Inoue, Takeshi, to Mitsubishi Mining and Cement Co., Ltd. Dielectric ceramic composition. 4,716,134, 12-29-87, Cl. 501-136.000.

amaguchi, Takashi: *See*—
Hirai, Hiromu; Yamaguchi, Takashi; Takase, Fuyuto; and Yoshida, Tomomasa, 4,667,139, Cl. 318-687.000.
Uedaira, Satoru; Yamanoi, Hiroshi; Yamaguchi, Takashi; Suzuki, Masayuki; and Tamura, Hidemasa, 4,677,083, Cl. 423-598.000.
amaguchi, Takayuki: *See*—
Abe, Shuro; Yabuki, Yoshiro; Takamatsu, Yasuhiko; Yamaguchi, Takayuki; Ohta, Masatoshi; and Nakamura, Eiji, 4,651,164, Cl. 346-76.0PH.
amaguchi, Takeshi; and Watanabe, Atsuo, to Riken Vitamine Co., Ltd. Quality improver for frozen doughs. 4,664,932, 5-12-87, Cl. 426-653.000.
amaguchi, Tatsuo: *See*—
Sato, Atsushi; Murai, Yoshikazu; Yamaguchi, Tatsuo; Mochizuki, Kanji; and Sugisawa, Kunio, 4,692,270, Cl. 252-353.000.
amaguchi, Teruhito: *See*—
Tahara, Yoshiyuki; Nagai, Michiko; Kogure, Katsura; Kawase, Shigeo; and Yamaguchi, Teruhito, 4,642,314, Cl. 514-475.000.
Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,645,862, Cl. 564-370.000.
Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,658,063, Cl. 564-367.000.
Tahara, Yoshiyuki; Komatsu, Yasuhiro; Koyama, Hiroyasu; Kubota, Reiko; Yamaguchi, Teruhito; and Takahashi, Toshihiro, 4,700,002, Cl. 564-367.000.
amaguchi, Tetsuo: *See*—
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Tominaga, Haruo; Takayama, Teruyuki; Ogura, Yoshio; and Yamaguchi, Tetsuo, 4,686,153, Cl. 428-610.000.
amaguchi, Tetsurou; Yamamoto, Kohji; and Honda, Kiichiro, to Babcock-Hitachi Kabushiki Kaisha. Flame detector for use with a burner. 4,709,155, 11-24-87, Cl. 250-554.000.
amaguchi, Tomio: *See*—
Suzuki, Akira; Suzuki, Hidemasa; and Yamaguchi, Tomio, 4,674,238, Cl. 51-418.000.
amaguchi, Tomoyoshi: *See*—
Fukunaga, Masami; and Yamaguchi, Tomoyoshi, 4,691,975, Cl. 439-266.000.
amaguchi, Toru: *See*—
Akiyama, Hiroyuki; Izawa, Susumu; Okabe, Shigeru; and Yamaguchi, Toru, 4,716,021, Cl. 422-135.000.
Yoshimura, Shohei; Yamaguchi, Toru; Hashiba, Masahiro; and Kanbe, Masato, 4,656,197, Cl. 521-56.000.
Yoshimura, Shohei; Yamaguchi, Toru; Kanbe, Masato; and Kuwabara, Hideki, 4,704,239, Cl. 264-50.000.
amaguchi, Toshiaka; and Yabe, Shirouji, to Nippon Seiko Kabushiki Kaisha. Vibration suppressing device in a feed screw mechanism. 4,671,127, 6-9-87, Cl. 74-89.150.
amaguchi, Toshiaki: *See*—
Ueda, Kazuhiro; Yamaguchi, Toshiaki; Kajiyama, Kouji; and Matsumoto, Osamu, 4,714,089, Cl. 137-614.180.
amaguchi, Toshiharu: *See*—
Yamazaki, Shunpei; Konuma, Toshimitsu; Hamatani, Toshiji; Mase, Akira; Koyanagi, Kaoru; Imato, Shinji; Yamaguchi, Toshiharu; Sakama, Mitsunori; and Inujima, Takashi, 4,691,995, Cl. 350-331.00R.
amaguchi, Toshihide: *See*—
Izutsu, Hitoshi; and Yamaguchi, Toshihide, 4,703,074, Cl. 524-262.000.
amaguchi, Tosinobu; Aitoh, Sigeru; and Hamazaki, Masafumi. Food and drink warming container. 4,640,264, 2-3-87, Cl. 126-263.000.
amaguchi, Yasuhiko: *See*—
Kifune, Koji; Yamaguchi, Yasuhiko; and Tanae, Hiroyuki, 4,651,725, Cl. 128-156.000.
Motosugi, Kenzo; Kifune, Koji; Yamaguchi, Yasuhiko; Nobe, Yasuo; and Tanae, Hiroyuki, 4,699,135, Cl. 128-156.000.
amaguchi, Yasumasa; and Nishida, Masashi, to Nitto Chemical Industry Co., Ltd. Method for purifying aqueous acrylamide solution. 4,701,558, 10-20-87, Cl. 564-127.000.
amaguchi, Yasutaka, to NEC Corporation. Semiconductor device comprising polycrystalline silicon resistor element. 4,682,402, 7-28-87, Cl. 29-571.000.
amaguchi, Yasuyoshi: *See*—
Oba, Harutaro; Ozawa, Yasuhiko; Yamaguchi, Yasuyoshi; and Mimoto, Osamu, 4,681,422, Cl. 355-3.00R.
amaguchi, Yoichi: *See*—
Shioya, Jun; Yamaguchi, Yoichi; Ueba, Yoshinobu; and Matsubara, Hironaga, 4,645,713, Cl. 428-457.000.
amaguchi, Yooichi: *See*—
Fujikawa, Tetsuzo; Yamaguchi, Yooichi; and Ueda, Yoshiteru, 4,647,835, Cl. 322-1.000.
amaguchi, Yoshihiro: *See*—
Nakagawa, Akio; Ohashi, Hiromichi; Yamaguchi, Yoshihiro; Watanabe, Kimunori; and Thukakoshi, Thuneo, 4,672,407, Cl. 357-23.400.
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Kumazawa, Takahiro; Nakamura, Yoshihiro; and Yamaguchi, Yoshimitsu, 4,682,694, Cl. 209-559.000.
Yamaguchi, Yoshinori: *See*—
Hisano, Atushi; Yamaguchi, Yoshinori; Masaki, Toshimichi; Saka, Kazuhiko; Nakatsuka, Nobuo; and Kato, Mitsutaka, 4,703,544, Cl. 358-60.000.
Yamaguchi, Yoshio: *See*—
Kato, Kenji; Yamaguchi, Yoshio; and Takahashi, Yoshitaka, 4,648,341, Cl. 112-458.000.
Mashimo, Satoshi; Fujita, Kunihiro; Tanaka, Masayuki; Yamaguchi, Yoshio; and Takeda, Kazuhiro, 4,715,176, Cl. 57-251.000.
Yamaguchi, Yoshitaka; and Sumiya, Kenji, to Hitachi Maxell, Ltd. Magnetic recording medium. 4,659,633, 4-21-87, Cl. 428-695.000.
Yamaguchi, Yoshitaka: *See*—
Hayashi, Seiichi; Takei, Katsumori; Usui, Takahiro; Yamaguchi, Yoshitaka; and Taniguchi, Makoto, 4,636,258, Cl. 106-31.000.
Hayashi, Seiichi; Takei, Katsumori; and Yamaguchi, Yoshitaka, 4,684,563, Cl. 428-207.000.
Yamaguchi, Yoshito: *See*—
Nakamura, Norihiko; Morishima, Hideki; and Yamaguchi, Yoshito, 4,681,465, Cl. 368-246.000.
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Yamaguchi, Yukio: *See*—
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Yamaguchi, Yutaka: *See*—
Suzuki, Toshio; Saegusa, Takeshi; Takasu, Toshimitsu; Nakayama, Yuji; and Yamaguchi, Yutaka, 4,665,957, Cl. 141-39.000.
Yamaguchikyoei Industry Co. Ltd.: *See*—
Nakagawa, Fumio; Nakamura, Kazuyoshi; Shibao, Hitoshi; Yoshimura, Hiroshi; Taki, Koichi; Inoue, Makoto; Hayashi, Eiji; Dejima, Fusao; and Kohara, Yuritoshi, 4,690,638, Cl. 432-81.000.
Yamaguro, Akira: *See*—
Momose, Yutaka; and Yamaguro, Akira, 4,708,639, Cl. 431-215.000.
Watanabe, Tetsumi; and Yamaguro, Akira, 4,633,667, Cl. 60-517.000.
Watanabe, Tetsumi; Yamaguro, Akira; and Yamaguchi, Susumu, 4,639,212, Cl. 431-183.000.
Yamaguti, Yukio, to NEC Corporation. Package. 4,709,301, 11-24-87, Cl. 361-387.000.
Yamaha: *See*—
Enda, Ryuichi, 4,696,363, Cl. 180-219.000.
Kubota, Kazuhiro; and Kondo, Seiji, 4,685,431, Cl. 123-198.0DB.
Laimbock, Franz, 4,683,855, Cl. 123-432.000.
Oyaizu, Takeshi, 4,685,429, Cl. 123-90.310.
Yamaha Hatsudoki Kabushiki Kaisha: *See*—
Amano, Junkichi, 4,649,873, Cl. 123-90.330.
Aoi, Kazuo, 4,638,774, Cl. 123-90.220.
Aoi, Kazuo; and Tsuchida, Naoki, 4,679,532, Cl. 123-90.220.
Boyer, Kirk A.; and Imai, Tesuo, 4,633,964, Cl. 180-190.000.
Foote, Douglas C., and Grinde, James E., 4,650,029, Cl. 180-248.000.
Fujita, Minoru, 4,709,675, Cl. 123-376.000.
Furukawa, Naoki, 4,695,822, Cl. 340-53.000.
Hosoi, Yukiharu, 4,658,780, Cl. 123-315.000.
Ishino, Katsuya; and Kawashima, Masahiro, 4,667,762, Cl. 180-226.000.
Kawashima, Masahiro, 4,645,028, Cl. 180-227.000.
Kojima, Noboru; and Kitagawa, Kinya, 4,653,582, Cl. 416-44.000.
Kondo, Hiroshi; and Okada, Tadao, 4,662,471, Cl. 180-226.000.
Kuroda, Yuuzoh, 4,637,356, Cl. 123-90.270.
Marier, Gregory J., 4,688,817, Cl. 280-278.000.
Masuda, Yutaka, 4,645,027, Cl. 180-176.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,650,021, Cl. 180-219.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,650,023, Cl. 180-219.000.
Matsuda, Atsushi; and Sata, Tashiyuki, 4,651,844, Cl. 180-219.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,655,311, Cl. 180-219.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,662,469, Cl. 180-219.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,664,214, Cl. 180-219.000.
Nakayama, Yoshiharu; and Ohnishi, Youichi, 4,714,061, Cl. 123-195.00R.
Odashima, Rou, 4,637,355, Cl. 123-73.0AD.
Ohmi, Masatoshi, 4,637,357, Cl. 123-90.480.
Ohmi, Masatoshi; Yoneda, Toshihiko; and Uchiyama, Kazuo, 4,649,876, Cl. 123-302.000.
Ohmi, Masatoshi; Yoneda, Toshihiko; and Uchiyama, Kazuo, 4,702,203, Cl. 123-52.0MV.
Oyaizu, Takeshi, 4,715,333, Cl. 123-90.310.
Sato, Toshiyuki; and Matsuda, Atsushi, 4,650,022, Cl. 180-219.000.
Shiraishi, Nobuaki, 4,650,026, Cl. 180-227.000.
Sugiyama, Keiichi; and Nagura, Takahiro, 4,660,530, Cl. 123-432.000.
Suzuki, Takashi; and Kasai, Hiroshi, 4,664,215, Cl. 180-226.000.
Suzuki, Toshiyuki; and Yoshida, Yuro, 4,660,854, Cl. 280-782.000.
Takada, Kazuyoshi, 4,690,234, Cl. 180-182.000.
Taki, Osamu, 4,653,270, Cl. 60-302.000.
Takimoto, Hiroshi; and Fukui, Takumi, 4,636,922, Cl. 362-72.000.
Takimoto, Hiroshi, 4,667,760, Cl. 180-215.000.
Terashita, Shinji, 4,658,661, Cl. 74-331.000.
Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, 4,633,826, Cl. 123-90.350.
Tominaga, Nobuyoshi; Kurai, Nobuyoshi; Ueno, Hajime; and Suzuki, Sadahide, 4,637,354, Cl. 123-55.0VF.

Uchiyama, Kazuo; and Suzuki, Takamitsu, 4,643,143, Cl. 123-90.310.
Watanabe, Hiromitsu, 4,691,799, Cl. 180-215.000.
Yamagata, Hiroshi, 4,637,110, Cl. 29-156.4WL.
Yamagata, Hiroshi, 4,700,444, Cl. 29-156.4WL.
Yoshikawa, Masaaki; and Aoi, Kazuo, 4,651,696, Cl. 123-308.000.
Yoshikawa, Masaaki, 4,660,529, Cl. 123-432.000.

Yamaha Hatsukoki Kabushiki Kaisa: *See*—
Kawashima, Kenji; Asano, Katsuaki; and Takii, Osamu, 4,658,795, Cl. 123-519.000.

Yamaha Motor Co., Ltd.: *See*—
Fuchigami, Wataru; and Nakayama, Yoshiharu, 4,692,129, Cl. 474-148.000.
Matsuda, Atsushi; and Sato, Toshiyuki, 4,650,024, Cl. 180-219.000.
Tanaka, Toshio, 4,684,144, Cl. 280-281.00R.

Yamahara, Johji: *See*—
Kanehira, Koichi; Shiono, Manzo; Fujita, Yoshiji; Nishida, Takashi; and Yamahara, Johji, 4,681,890, Cl. 514-333.000.

Yamahata, Takashi, to General Company Limited. Multi-type heat-sensitive transferring medium. 4,689,274, 8-25-87, Cl. 428-522.000.

Yamahiro Co., Ltd.: *See*—
Yamamoto, Hisayoshi, 4,655,073, Cl. 72-469.000.

Yamaho Kogyo Co., Ltd.: *See*—
Ohsuga, Kamemaru, 4,634,463, Cl. 71-34.000.

Yamai, Iwao, to Nihon Ceramics Co., Ltd. Process for the production of low-thermal-expansive $(ZrO)_2\ P_2O_7$ ceramic. 4,703,023, 10-27-87, Cl. 501-102.000.

Yamai, Yoshihiro; Hamamoto, Hideo; and Nishibe, Masami, to Toyota Jidosha Kabushiki Kaisha. Lamp assembly. 4,689,728, 8-25-87, Cl. 362-268.000.

Yamaichi Electric Mfg. Co., Ltd.: *See*—
Egawa, Yoshinori, 4,679,871, Cl. 439-70.000.
Egawa, Yoshinori; and Nakano, Hidetaka, 4,688,870, Cl. 439-331.000.
Kosugi, Motoki; and Nakano, Hidetaka, 4,641,904, Cl. 339-99.00R.
Matsuoka, Noriyuki, 4,657,328, Cl. 339-75.0MP.
Matsuoka, Noriyuki, 4,715,835, Cl. 439-893.000.
Sibata, Suegi, 4,690,646, Cl. 439-71.000.

Yamaji, Kazunori; Nakamura, Takashi; and Kihara, Taku, to Sony Corporation. Video signal generating apparatus with color sequencing. 4,677,464, 6-30-87, Cl. 358-41.000.

Yamaji, Koji: *See*—
Iwai, Hiroji; and Yamaji, Koji, 4,648,731, Cl. 400-240.100.

Yamaji, Mikio: *See*—
Igarashi, Tadashi; Yamaji, Mikio; and Oneyama, Naotake, 4,674,958, Cl. 417-225.000.

Yamaji, Mitsuharu, to Koei Chemical Co., Ltd. Process for producing 2,3,5-collidine and/or 2,3,5,6-tetramethylpyridine. 4,658,032, 4-14-87, Cl. 546-349.000.

Yamaji, Satoru: *See*—
Kuniki, Toyomi; and Yamaji, Satoru, 4,703,877, Cl. 223-60.000.

Yamakami, Osamu: *See*—
Hayashi, Toshihide; Yamakami, Osamu; and Kanayama, Ikuo, 4,710,972, Cl. 455-179.000.

Yamakami, Takahiko: *See*—
Hata, Katsuhiko; and Yamakami, Takahiko, 4,639,640, Cl. 315-3.000.
Hata, Katsuhiko; Ohashi, Hisao; Honda, Ketji; and Yamakami, Takahiko, 4,682,962, Cl. 445-5.000.

Yamakawa, Akira; Takeda, Yoshinobu; and Kamijo, Eiji, to Sumitomo Electric Industries, Ltd. Thin film magnetic heads and substrates therefore. 4,660,114, 4-21-87, Cl. 360-122.000.

Yamakawa, Goichi: *See*—
Morita, Hideaki; Kasuya, Takahira, Yamakawa, Goichi; Tomono, Makoto; and Yasuda, Shinichiro, 4,657,837, Cl. 430-109.000.

Yamakawa, Hiroyoshi: *See*—
Imanishi, Syozo; Yamakawa, Hiroyoshi; and Ono, Yutaka, 4,651,866, Cl. 198-500.000.

Yamakawa, Kiyoshi; and Yoshimoto, Satoshi, to Brother Kogyo Kabushiki Kaisha. Stepper motor homing method and system. 4,714,361, 12-22-87, Cl. 400-144.200.

Yamakawa, Kiyoshi: *See*—
Kurachi, Hisao; Minaminaka, Kazuyoshi; Ito, Takeo; and Yamakawa, Kiyoshi, 4,701,579, Cl. 200-5.00A.

Yamakawa, Masaki: *See*—
Sasaki, Makoto; Yamakawa, Masaki; Hirose, Toshifumi; and Isayama, Katsuhiko, 4,707,526, Cl. 525-404.000.

Yamakawa, Satoshi: *See*—
Kimata, Masafumi; Yamawaki, Masao; and Yamakawa, Satoshi, 4,707,744, Cl. 358-213.260.

Yamakawa, Tadashi; Inoue, Yutaka; Satomura, Hiroshi; and Yano, Hideaki, to Canon Kabushiki Kaisha. Optical printer head and printer using same. 4,651,176, 3-17-87, Cl. 346-160.000.

Yamakawa, Tadashi, to Canon Kabushiki Kaisha. Character and figure processing apparatus. 4,672,677, 6-9-87, Cl. 382-13.000.

Yamakawa, Tadashi, to Canon Kabushiki Kaisha. Image formation apparatus. 4,700,206, 10-13-87, Cl. 346-160.000.

Yamakawa, Tadashi, to Canon Kabushiki Kaisha. Image recording apparatus utilizing light emitting diodes with pixel shape correction. 4,706,130, 11-10-87, Cl. 358-296.000.

Yamakawa, Tadashi: *See*—
Inoue, Yutaka; Kurata, Mitsuru; Kasama, Nobuhiro; Hosaka, Masao; Yagasaki, Toshiaki; Tanioka, Hiroshi; and Yamakawa, Tadashi, 4,714,940, Cl. 355-3.00R.
Tanioka, Hiroshi; Yamakawa, Tadashi; Inoue, Yutaka; Hosaka, Masao; Yagasaki, Toshiaki; Kasama, Nobuhiro; and Kurata, Mitsuru, 4,646,249, Cl. 364-518.000.

Yamakawa, Takeshi, to Omron Tateisi Electronics Co. Multi-functional fuzzy logic circuit. 4,716,540, 12-29-87, Cl. 364-807.000.

Yamakawa, Takeshi: *See*—
Ueno, Fumio; Yamakawa, Takeshi; and Shirai, Yuji, 4,694,418, Cl. 364-807.000.

Yamakawa, Toru, to Fuji Jukogyo Kabushiki Kaisha. Clutch system for an internal combustion engine provided with a plurality of engine units. 4,662,490, 5-5-87, Cl. 192-0.070.

Yamakawa, Tsuneo: *See*—
Saida, Toyoyasu; Sunagawa, Takahisa; Yamakawa, Tsuneo; Ohta, Norima; and Obara, Keishi, 4,686,968, Cl. 252-632.000.

Yamakawa, Tsutomu: *See*—
Nakata, Hozumi; and Yamakawa, Tsutomu, 4,639,632, Cl. 310-351.000.

Yamakawa, Tsuyoshi, to Teijin Seiki Company Limited. Elastic support members for an electric actuator. 4,682,135, 7-21-87, Cl. 335-256.000.

Yamakawa, Yoshifumi, to Sony Corporation. Brightness and contrast adjusting apparatus. 4,682,231, 7-21-87, Cl. 358-168.000.

Yamakawa, Yoshihiro: *See*—
Kuwabara, Takashi; Shimura, Yoshiharu; Hayashi, Yuko; Hamamure, Toshiyuki; Kanemori, Kaoru; and Yamakawa, Yoshihiro, 4,711,098, Cl. 62-441.000.

Yamakawa, Yoshisuke: *See*—
Tokuoka, Yasumichi; Yamakawa, Yoshisuke; and Watanabe, Akio, 4,663,246, Cl. 428-694.000.
Tokuoka, Yasumichi; Yamakawa, Yoshisuke; and Watanabe, Akio, 4,684,546, Cl. 427-130.000.

Yamaki, Bunshiro; Kikuchi, Sadatake; and Tomisawa, Yutaka, to Kabushiki Kaisha Toshiba. Semiconductor pressure sensor. 4,680,36 7-14-87, Cl. 338-42.000.

Yamaki, Chikara, to Fan Out Co., Ltd. Whisk pick. 5,712,266, 12-15-87, Cl. 15-167.100.

Yamaki, Jun-ichi: *See*—
Sakurai, Yoji; Hirai, Toshiro; Okada, Shigeto; Okada, Takeshi; Yamaki, Jun-ichi; and Ohtsuka, Hideaki, 4,675,260, Cl. 429-191.000.

Yamaki, Kazuyoshi: *See*—
Sugino, Yoshihide; Shiote, Yoshinori; and Yamaki, Kazuyoshi, 4,661,037, Cl. 414-729.000.

Yamaki, Masahiko, to Seikosha Co., Ltd. Electric flashlight. 4,708,10 11-24-87, Cl. 362-199.000.

Yamaki, Michihiro, to Sigma Corporation. Fully automatic diaphragm control interchangeable lens. 4,647,171, 3-3-87, Cl. 354-286.000.

Yamaki, Toshio; Mukai, Hiromu; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, to Minolta Camera Kabushiki Kaisha. Camera with an automatic focus adjusting apparatus. 4,693,581, 9-15-87, Cl. 354-400.000.

Yamaki, Toshio: *See*—
Mukai, Hiromu; Yamaki, Toshio; Fujino, Akihiko; Izumi, Shuji; Nakai, Masaaki; and Taniguchi, Nobuyuki, 4,705,382, Cl. 354-412.000.
Nakai, Masaaki; Izumi, Shuji; Fujino, Akihiko; Taniguchi, Nobuyuki; Yamaki, Toshio; and Mukai, Hiromu, 4,690,536, Cl. 354-402.000.
Tani, Junichi; Yamaki, Toshio; and Seigenji, Kiyoshi, 4,667,2[illegible], Cl. 439-77.000.

Yamakido, Kazuo: *See*—
Kokubo, Masaru; Nishita, Shigeo; and Yamakido, Kazuo, 4,652,858, Cl. 340-347.0DA.
Kokubo, Masaru; Nishida, Shigeo; and Yamakido, Kazuo, 4,672,361, Cl. 340-347.0AD.

Yamakita, Hiromi; Hayakawa, Kiyoshi; Tazawa, Mosato; and Tashi, Hiroshi, to Agency of Industrial Science & Technology; and Ministry of International Trade and Industry. Method for production of film-coated silicon semiconductor electrode. 4,647,348, 3-3-87, Cl. 204-59.00R.

Yamakoshi, Minoru: *See*—
Watanabe, Toshinori; Sasaki, Koji; Yasunobu, Chizuki; Izuka, Yumiko; Nagai, Yoshiaki; Yamanaka, Toshiro; Yamakoshi, Minoru; and Tanaka, Takashi, 4,700,317, Cl. 364-488.000.

Yamakoshi, Mutsuro: *See*—
Sakaguchi, Shozo; and Yamakoshi, Mutsuro, 4,664,451, Cl. 350-6.00C.

Yamakoshi, Takato: *See*—
Onoda, Yoshimitsu; Yamakoshi, Takato; and Arakawa, Shigeo, 4,649,751, Cl. 73-658.000.

Yamakoshi, Yukiyoshi: *See*—
Teriemi, Shiro; Yamagishi, Seiichi; Yamakoshi, Yukiyoshi; Ishi, Kenjiro; and Maeda, Yutaka, 4,665,408, Cl. 346-134.000.

Yamamatsu, Setsuo: *See*—
Aoshima, Atsushi; Yamamatsu, Setsuo; and Tonomura, Shoichi, 4,677,231, Cl. 568-617.000.

Yamamitsu, Chojuro: *See*—
Juri, Tatsuro; Iketani, Akira; Yamamitsu, Chojuro; and Ishi, Akifumi, 4,691,329, Cl. 375-122.000.

Yamamori, Hisayoshi; Inoue, Michio; Kawashima, Kazuto; and Tanaka, Hisao, to Mitsubishi Rayon Co., Ltd. Hydrophilized membrane of porous hydrophobic material and process for preparing the same. 4,663,227, 5-5-87, Cl. 428-315.700.

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mamori, Hisayoshi: *See*—
Uchida, Teruyoshi; Yamamori, Hisayoshi; Kojima, Hirotaka; and Tashita, Junichi, 4,672,970, Cl. 128-635.000.

mamori, Kenji: *See*—
Tatsumi, Hisao; Kayata, Haruhiko; Yamamori, Kenji; Kakizawa, Toshio; and Mogi, Toshiaki, 4,712,115, Cl. 346-76.0PH.

mamori, Takahiro; Takagi, Yasuo; and Furukawa, Junichi, to Nissan Motor Co., Ltd. Hydraulic transmission control system having different state corresponding to different octane fuels, 4,677,878, 7-7-87, Cl. 74-861.000.

mamoto, Akihiko: *See*—
Kohno, Akiomi; Nakae, Hideo; Yamamoto, Akihiko; and Kawamoto, Hiroyuki, 4,699,310, Cl. 228-122.000.

mamoto, Akihiro: *See*—
Nakagawa, Isao; Yamamoto, Akihiro; Hirose, Koichi; Okada, Yoshinori; and Kudo, Mitsuru, 4,634,995, Cl. 330-261.000.
Usami, Hiroko; Yamamoto, Akihiro; Sugawara, Yutaka; Kotani, Shozo; and Kato, Keijiro, 4,678,773, Cl. 514-25.200.

mamoto, Akinori; and Kurii, Masaaki, to Nippondenso Co., Ltd. Motor driven extensible rod antenna for vehicles with position control circuit, 4,649,398, 3-10-87, Cl. 343-903.000.

mamoto, Akio; Ishizu, Takazumi; and Ichihara, Kiyoshi, to Hitachi, Ltd. Method and apparatus for separating gases, 4,704,139, 11-3-87, Cl. 55-3.000.

amamoto, Akio; and Shinkawa, Ketro, to Hitachi, Ltd. Frequency converter circuit, 4,713,556, 12-15-87, Cl. 307-219.100.

amamoto, Akio: *See*—
Nakamura, Yoichi; Yamamoto, Akio; Kurita, Goro; Tomuro, Jinichi; and Kuge, Toshio, 4,668,244, Cl. 44-1.00F.
Shigemoto, Hiromi; Yamamoto, Akio; and Suzuki, Iwatoshi, 4,693,677, Cl. 425-376.00R.

amamoto, Akira: *See*—
Fujimoto, Teruo; Kazama, Takeo; Takamizawa, Minoru; and Yamamoto, Akira, 4,636,454, Cl. 430-197.000.
Hamada, Shuji; and Yamamoto, Akira, 4,708,582, Cl. 414-786.000.
Nagahama, Toshiyuki; Suzuki, Hisashi; and Yamamoto, Akira, 4,658,525, Cl. 40-564.000.
Sagami, Yosuke; Yamamoto, Akira; Watanabe, Shoji; Isobe, Tomohisa; and Funato, Susumu, 4,703,338, Cl. 357-72.000.
Takamizawa, Minoru; Yamamoto, Akira; Ishihara, Toshinobu; and Nagura, Shigehiro, 4,649,185, Cl. 526-279.000.
Takamizawa, Minoru; Yamamoto, Akira; and Nagura, Shigehiro, 4,689,267, Cl. 428-376.000.

amamoto, Akito: *See*—
Hosaka, Akio; and Yamamoto, Akito, 4,640,250, Cl. 123-425.000.
Nakajima, Yuji; and Yamamoto, Akito, 4,693,221, Cl. 123-425.000.

amamoto, Albert K.: *See*—
Cosenza, Frank J.; and Yamamoto, Albert K., 4,645,398, Cl. 411-438.000.

amamoto, Atsuko: *See*—
Imai, Eiichi; Uchiyama, Masaki; Urabe, Motoo; and Yamamoto, Atsuko, 4,666,815, Cl. 430-126.000.

amamoto Chemical Industrial Co., Ltd.: *See*—
Inoue, Hiroshige; Fukushima, Kenichi; and Nishiguchi, Ikuzo, 4,634,768, Cl. 544-151.000.

amamoto, Diane M.: *See*—
Stout, David M.; Yamamoto, Diane M.; and Barcelon-Yang, Cynthia, 4,657,919, Cl. 514-335.000.

amamoto Electric Industrial Co., Ltd.: *See*—
Kuwana, Tadashi, 4,633,576, Cl. 29-597.000.

amamoto, Etsuji; Kohno, Hideki; Kuroda, Masao; Matsui, Shigeru; and Shiono, Hidemi, to Hitachi, Ltd. Imaging method and apparatus using nuclear magnetic resonance, 4,683,433, 7-28-87, Cl. 324-309.000.

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amamoto, Etsuji: *See*—
Sekihara, Kensuke; Yamamoto, Etsuji; Matsui, Shigeru; and Kohno, Hideki, 4,672,318, Cl. 324-307.000.
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amamoto, Etsuo: *See*—
Tanabe, Hiroshi; Yamamoto, Etsuo; Togashi, Seigo; Sekiguchi, Kanetaka; Aota, Katsumi; and Sorimachi, Kazuaki, 4,673,253, Cl. 350-339.00F.
Togashi, Seigo; Yamamoto, Etsuo; Aota, Katsumi; Tanabe, Hiroshi; Sekiguchi, Kanetaka; and Sorimachi, Kazuaki, 4,655,552, Cl. 350-342.000.

amamoto, Fujio: *See*—
Nishida, Hiroshi; Yamamoto, Fujio; Higashi, Mikio; and Naruse, Jun, 4,677,509, Cl. 360-97.000.

amamoto, Fumio; Suzuki, Takayoshi; Ikari, Masahiro; Saito, Susumu; Ohmori, Akira; and Yasuhara, Takashi, to Kuraray Co., Ltd. Contact lens, 4,684,705, 8-4-87, Cl. 526-246.000.

amamoto, Fumio: *See*—
Ito, Shichinosuke; and Yamamoto, Fumio, 4,672,095, Cl. 525-455.000.

amamoto, Fumitada: *See*—
Koga, Yasuharu; Yamamoto, Fumitada; and Shimokawa, Hidehara, 4,655,838, Cl. 106-90.000.

amamoto, Fumio: *See*—
Tamai, Yoshio; Yamamoto, Fumio; Shiono, Manzo; Kanchiku, Koichi; Orasa, Hiroshi; and Nomoto, Kaoru, 4,656,195, Cl. 514-772.000.

Yamamoto, Gayle: *See*—
Royston, Ivor; Majda, John; and Yamamoto, Gayle, 4,675,386, Cl. 530-387.000.

Yamamoto, Haruo, to Casio Computer Co., Ltd. Electronic device with a finger activating data input function, 4,654,874, 3-31-87, Cl. 382-13.000.

Yamamoto, Haruo, to Casio Computer Co., Ltd. Electronic apparatus for entering pattern data by finger activation, 4,695,828, 9-22-87, Cl. 340-365.00S.

Yamamoto, Harutoshi; and Sakomoto, Sadayue, to Toshiba Kikai Kabushiki Kaisha. Method of casting a machine part by fusing metal layers on both sides of a separting plate, 4,693,293, 9-15-87, Cl. 164-99.000.

Yamamoto, Haruyasu: *See*—
Kisida, Hirosi; Yamamoto, Haruyasu; and Yano, Toshihiko, 4,663,339, Cl. 514-394.000.

Yamamoto, Hidehiko; and Kaneko, Nobutaka, to Olympus Optical Co., Ltd. Method of recording electrophoretic image pattern, 4,666,577, 5-19-87, Cl. 204-183.300.

Yamamoto, Hidehiko, to Olympus Optical Co., Ltd. Method of measuring total protein of sample with the aid of electrophoretic image, 4,666,578, 5-19-87, Cl. 204-183.300.

Yamamoto, Hideji: *See*—
Kudo, Katsuyoshi; Nagatomo, Katsuaki; Yamamoto, Hideji; Nishita, Katsuyasu; and Ogawa, Yoshifumi, 4,664,767, Cl. 204-164.000.

Yamamoto, Hideki: *See*—
Harafuji, Yoshihiko; Yamamoto, Hideki; and Yamamoto, Katsuhiko, 4,644,458, Cl. 363-65.000.

Yamamoto, Hideo: *See*—
Miyazaki, Takao; and Yamamoto, Hideo, 4,680,650, Cl. 360-33.100.
Yamaguchi, Hirohisa; Wada, Masahiro; and Yamamoto, Hideo, 4,672,442, Cl. 358-140.000.

Yamamoto, Hideto, to Yokohama Rubber Co., Ltd. Apparatus for supplying flexible workpiece, 4,659,417, 4-21-87, Cl. 156-405.100.

Yamamoto, Hiraku; Suzuki, Toshimichi; Katayama, Shigeru; Uratsuka, Isao; and Asoshina, Eishi, to Nitto Electric Industrial Co., Ltd. Epoxy resin coating composition, 4,695,598, 9-22-87, Cl. 523-400.000.

Yamamoto, Hiranaga: *See*—
Katoh, Tutomu; and Yamamoto, Hiranaga, 4,696,561, Cl. 355-3.0FU.

Yamamoto, Hiroaki, to Tokai Metals Co., Ltd. Surface protecting material, 4,666,762, 5-19-87, Cl. 428-216.000.

Yamamoto, Hirohiko: *See*—
Ohta, Tomozo; Higashi, Kazutada; and Yamamoto, Hirohiko, 4,712,111, Cl. 343-779.000.

Yamamoto, Hiromasa; Shida, Sankichi; and Todoroki, Tsunehiko, to Matsushita Electric Industrial Co., Ltd. Method of manufacturing a chip coil, 4,696,100, 9-29-87, Cl. 29-605.000.

Yamamoto, Hiromi; Imai, Miho; and Suzuki, Noboru, to Kao Corporation. Hairbrush, 4,694,525, 9-22-87, Cl. 15-160.000.

Yamamoto, Hironobu: *See*—
Daigo, Yasuhito; Hirobe, Takashi; Inage, Kengo; Naruse, Shigeyasu; Nara, Takashi; Okamoto, Yoshizo; and Yamamoto, Hironobu, 4,659,384, Cl. 106-35.000.

Yamamoto, Hironori: *See*—
Isohata, Junji; Yamamoto, Hironori; and Matsushita, Koichi, 4,708,465, Cl. 355-53.000.
Matsushita, Koichi; Isohata, Junji; Yamamoto, Hironori; Miyazaki, Makoto; Ozawa, Kunitaka; and Yoshinari, Hideki, 4,676,630, Cl. 355-53.000.

Yamamoto, Hiroshi; Satoh, Shuichi; Iwai, Yoshiyuki; Ae, Osamu; Suda, Masao; Shiozaki, Minoru; Tsuchiya, Kiyoshi; Nakano, Manabu; Ogata, Kojiro; Miyanagi, Naoki; Ono, Kozo; and Tobita, Nobuyuki, to Nippon Telegraph & Telephone Public Corporation; and Hitachi, Ltd. Vibration generating apparatus, 4,653,594, 3-31-87, Cl. 173-49.000.

Yamamoto, Hiroshi, to Kabushiki Kaisha Kyoto Daiichi Kagaku. Method and apparatus for measuring body fluid constituents and storing and managing the test data and method of controlling and processing the test data, 4,685,059, 8-4-87, Cl. 364-415.000.

Yamamoto, Hiroshi; Suzuki, Hayato; and Takatsuka, Keizo, to Mitsubishi Denki Kabushiki Kaisha. Gas insulated switchgear, 4,687,890, 8-18-87, Cl. 200-148.00B.

Yamamoto, Hiroshi; and Akashi, Akira, to Canon Kabushiki Kaisha. Automatic focusing device, 4,705,380, 11-10-87, Cl. 354-402.000.

Yamamoto, Hiroshi: *See*—
Fuziwara, Yutaka; and Yamamoto, Hiroshi, 4,639,083, Cl. 350-255.000.
Hanamori, Ryoichi; and Yamamoto, Hiroshi, 4,682,854, Cl. 350-255.000.
Hanamori, Ryoichi; Nakashima, Shigeo; and Yamamoto, Hiroshi, 4,693,580, Cl. 354-271.100.

Yamamoto, Hiroyuki: *See*—
Fukube, Tsuigio; Yamashita, Akinori; Hashimoto, Noboru; and Yamamoto, Hiroyuki, 4,656,985, Cl. 123-489.000.
Imamura, Tatsuo; Yamamoto, Hiroyuki; and Yuzuki, Yutaka, 4,703,380, Cl. 360-121.000.
Kimura, Toshio; Nakagawa, Shuichi; Tokumo, Teruhiko; Yamamoto, Hiroyuki; Kotan, Hiroshi; Otsu, Hiroshi; and Satoh, Tetsuya, 4,649,399, Cl. 346-32.000.

Yamamoto, Hisahiro, Method of forming permanent waves on hair, 4,660,581, 4-28-87, Cl. 132-7.000.

Yamamoto, Hisashi; and Konaka, Yukio, to Shibuya Kogyo Co., Ltd. Cartoning machine having auxiliary flap sealer, 4,673,381, 6-16-87, Cl. 493-128.000.

Yamamoto, Hisashi: *See*—
Gotou, Tadashi; and Yamamoto, Hisashi, 4,687,418, Cl. 417-50.000.
Yamamoto, Hisayoshi, to Yamahiro Co., Ltd. Thread rolling die for self-tapping screw. 4,655,073, 4-7-87, Cl. 72-469.000.
Yamamoto, Hitoshi: *See*—
Miyata, Takahide; Iwashita, Kanau; Tanuchi, Kazuman; Yamamoto, Hitoshi; and Nakamichi, Katsuhiro, 4,672,925, Cl. 123-65.0PE.
Watanabe, Masaki; Yamamoto, Hitoshi; Matsuoka, Yoshinori; and Tanaka, Kunihiko, 4,678,053, Cl. 180-210.000.
Yamamoto, Isamu; Noguchi, Yoshiaki; Iwasaki, Kouzou; and Arai, Kenichi, to Mitsui Toatsu Chemicals, Incorporated. Production of aminoalkylsulfonic acids. 4,657,704, 4-14-87, Cl. 260-513.00B.
Yamamoto, Isamu; and Naito, Masao, to Sony Corporation. Power control circuit for a color encoder of a video camera. 4,700,221, 10-13-87, Cl. 358-44.000.
Yamamoto, Isao: *See*—
Kozuka, Hajime; Hara, Tadayuki; and Yamamoto, Isao, 4,677,409, Cl. 335-258.000.
Yamamoto, Iwao: *See*—
Sugino, Yoshito; and Yamamoto, Iwao, 4,652,455, Cl. 426-104.000.
Yamamoto, Junji; Kanou, Noboru; and Usami, Masayuki, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kogyo Kabushiki Kaisha. Locking device for a detachable panel of vehicles. 4,662,672, 5-5-87, Cl. 296-224.000.
Yamamoto, Junko; Fujimoto, Kyohei; Hirasawa, Kazuhiro; and Kuboyama, Haruhiro, to Matsushita Electric Industrial Co., Ltd. Small antenna. 4,701,763, 10-20-87, Cl. 343-700.0MS.
Yamamoto, Junko: *See*—
Ogawa, Koichi; Uwano, Tomoki; Kosugi, Hiroaki; and Yamamoto, Junko, 4,700,194, Cl. 343-700.0MS.
Yamamoto, Kaichi, to Sony Corporation. Apparatus for recording digital data of various kinds on a slant track of a recording tape. 4,672,480, 6-9-87, Cl. 360-32.000.
Yamamoto, Kaname: *See*—
Tajima, Eiichi; and Yamamoto, Kaname, 4,636,414, Cl. 428-40.000.
Yamamoto, Kanshi: *See*—
Hojo, Takeshi; Kawada, Shin-Ichi; Fukano, Michio; Yamamoto, Kanshi; Okamura, Youji; Sato, Kazuteru; Saito, Masahiko; and Hane, Fuyuki, 4,694,696, Cl. 73-497.000.
Yamamoto, Katsuhiko: *See*—
Harafuji, Yoshihiko; Yamamoto, Hideki; and Yamamoto, Katsuhiko, 4,644,458, Cl. 363-65.000.
Yamamoto, Katsuhiro: *See*—
Unno, Mahito; and Yamamoto, Katsuhiro, 4,689,539, Cl. 318-594.000.
Yamamoto, Katsumasa: *See*—
Fuji, Tsugue; Yamamoto, Katsumasa; Aratani, Tetsuo; and Uegaki, Yoshinori, 4,663,431, Cl. 528-388.000.
Yamamoto, Kazuhiko, to Tokyo Shibaura Denki Kabushiki Kaisha. Document information filing system with a single display device. 4,636,848, 1-13-87, Cl. 358-102.000.
Yamamoto, Kazumasa: *See*—
Uemura, Isamu; and Yamamoto, Kazumasa, 4,681,357, Cl. 292-336.300.
Yamamoto, Kazuo; and Kawai, Osamu, to NSK-Warner K.K. Latch device for movable anchor in passive seat belt system. 4,647,070, 3-3-87, Cl. 280-804.000.
Yamamoto, Kazuo, to NSK-Warner K. K. Seat belt apparatus of a vehicle. 4,667,980, 5-26-87, Cl. 280-801.000.
Yamamoto, Kazuo; and Asano, Shuichi, to NSK-Warner K. K. Seat belt apparatus. 4,679,821, 7-14-87, Cl. 280-808.000.
Yamamoto, Kazuo: *See*—
Nakamura, Hiromi; Takahashi, Takehiko; Narazaki, Norio; Yamamoto, Kazuo; and Sayama, Norio, 4,653,268, Cl. 60-39.050.
Yamamoto, Kazuyuki: *See*—
Ise, Taichiro; Yamamoto, Kazuyuki; and Ogawa, Hiroyo, 4,700,348, Cl. 371-8.000.
Kumakawa, Shiro; and Yamamoto, Kazuyuki, 4,690,866, Cl. 428-364.000.
Yamamoto, Ken. Dies for forming a chain. 4,641,701, 2-10-87, Cl. 164-90.000.
Yamamoto, Ken. Locking mechanism for a case. 4,652,029, 3-24-87, Cl. 292-252.000.
Yamamoto, Ken. Auxiliary locking mechanism for a case. 4,714,286, 12-22-87, Cl. 292-263.000.
Yamamoto, Kenji; Nakayama, Takehisa; and Tawada, Yoshihisa, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Insulating material of non-single crystalline silicon compound. 4,711,807, 12-8-87, Cl. 428-334.000.
Yamamoto, Kenji: *See*—
Murata, Yasuto; Tezuka, Junichi; and Yamamoto, Kenji, 4,683,045, Cl. 204-206.000.
Murata, Yasuto; Tezuka, Junichi; and Yamamoto, Kenji, 4,702,811, Cl. 204-206.000.
Yamamoto, Kohei: *See*—
Sugimoto, Naotsugu; Torii, Kazutoshi; Tanahashi, Yuka; Morita, Hideo; Watanabe, Yuzo; Yamamoto, Kohei; and Kainuma, Teisuke, 4,656,044, Cl. 426-592.000.
Yamamoto, Kohji: *See*—
Yamaguchi, Tetsurou; Yamamoto, Kohji; and Honda, Kiichiro, 4,709,155, Cl. 250-554.000.
Yamamoto, Koichi: *See*—
Kikuchi, Toshiyuki; and Yamamoto, Koichi, 4,665,777, Cl. 74-866.000.
Kikuchi, Toshiyuki; and Yamamoto, Koichi, 4,694,709, Cl. 74-566.000.
Shimaoka, Shinji; and Yamamoto, Kouchi, 4,667,541, Cl. 74-866.000.
Yamamoto, Koji: *See*—
Suzaki, Takuji; and Yamamoto, Koji, 4,652,916, Cl. 348-93.00.
Yamamoto, Kosei; Kaneyasu, Akira; and Arita, Yo, to Ube Chemical Industries Co., Ltd. High-density magnesia-calcia clinker and process for production thereof. 4,681,863, 7-21-87, Cl. 501-108.000.
Yamamoto, Kouji: *See*—
Matsushima, Katsuaki; Fujioka, Yasuhiro; Sasaki, Takeshi; Fujie, Manabu; and Yamamoto, Kouji, 4,640,184, Cl. 98-2.150.
Taniguchi, Nobuyuki; Tominaga, Shinji; Yamamoto, Kouji; Osuka, Hiroshi; and Ueda, Hiroshi, 4,662,736, Cl. 354-412.000.
Yamamoto, Kunihiko: *See*—
Funada, Fumiaki; Kuwagaki, Hiroshi; Yamamoto, Kunihiko; and Matsuura, Masataka, 4,705,360, Cl. 350-344.000.
Takamatsu, Toshiaki; Kuwagaki, Hiroshi; Minezaki, Shigeharu; Yamamoto, Kunihiko; Nakatani, Hiroshi; and Kawaguchi, Hisao, 4,690,510, Cl. 350-334.000.
Takeda, Makoto; Yamamoto, Kunihiko; Matsuhashi, Nobuaki; Kimura, Naofumi; Hamada, Hiroshi; and Take, Hiroshi, 4,651,148, Cl. 340-805.000.
Takeda, Makoto; Yamamoto, Kunihiko; and Take, Hiroshi, 4,651,149, Cl. 340-805.000.
Takeda, Makoto; Yamamoto, Kunihiko; Matsubayashi, Nobuaki; and Take, Hiroshi, 4,694,349, Cl. 358-241.000.
Takeda, Makoto; Nonomura, Keisaku; and Yamamoto, Kunihiko, 4,710,768, Cl. 340-805.000.
Yamamoto, Kunio: *See*—
Ideue, Kazuo; Oya, Masashi; Hayashi, Kanji; Egawa, Tsutomu; Shimazutsu, Hiroaki; Ibushi, Junichi; Yamamoto, Kunio; Miyaguchi, Kanchisa; and Doho, Tamenari, 4,671,017, Cl. 51-49.000.
Yamamoto, Kyonosuke: *See*—
Kanada, Eiji; Suzuki, Shigeyoshi; Endo, Kazutaka; and Yamamoto, Kyonosuke, 4,636,066, Cl. 355-77.000.
Yamamoto, Makoto, to Mitsubishi Denki Kabushiki Kaisha. Pulse generating circuit. 4,649,290, 3-10-87, Cl. 307-260.000.
Yamamoto, Makoto; Toyama, Tsuyoshi; Harima, Hirokazu; and Ando, Ryo, to Mitsubishi Denki Kabushiki Kaisha. Field effect transistor with improved withstand voltage characteristic. 4,651,186, 3-17-87, Cl. 357-23.800.
Yamamoto, Makoto: *See*—
Hirabayashi, Kazuo; and Yamamoto, Makoto, 4,705,717, Cl. 357-23.110.
Kamikaseda, Takeshi; Furudate, Masahiro; and Yamamoto, Makoto, 4,634,727, Cl. 524-145.000.
Kamikaseda, Takeshi; and Yamamoto, Makoto, 4,687,809, Cl. 525-57.000.
Naito, Takanobu; Yokoyama, Masaaki; Sasaki, Kazuya; Yamamoto, Makoto; and Amemiya, Kouji, 4,691,014, Cl. 540-227.000.
Nakayama, Akira; Nakamura, Katsuya; Hara, Kotaro; and Yamamoto, Makoto, 4,707,411, Cl. 428-413.000.
Yamamoto, Mariko: *See*—
Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjo, Akira; and Ikezue, Tatsuya, 4,678,731, Cl. 430-65.000.
Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjo, Akira; and Ikezue, Tatsuya, 4,713,308, Cl. 430-65.000.
Yamamoto, Masafumi; and Fukuzaki, Tatsuo, to Isolite Babcock Refractories Co., Ltd. Ceramic fiber moldings. 4,668,590, 5-26-87, Cl. 428-446.000.
Yamamoto, Masahiko: *See*—
Nishino, Yoshinori; Yamamoto, Masahiko; Uda, Tadayoshi; Kondo, Kiyoshi; Kondo, Yutaka; and Kondo, Kazuo, 4,709,714, Cl. 134-89.000.
Yamamoto, Masahiro; and Yatomi, Takeshi, to Mitsubishi Denki Kabushiki Kaisha. Automatic wire feeder for an electrical discharge machining apparatus including combined cleaning fluid and working fluid supply systems. 4,698,476, 10-6-87, Cl. 219-69.00W.
Yamamoto, Masahiro: *See*—
Itoh, Tsutomu; Tateno, Haruo; Nagasaka, Hideo; Yamamoto, Masahiro; Mitsuyoshi, Yusuke; Matsuno, Susumu; Saitoh, Hiroshi; and Kitoh, Masayuki, 4,670,290, Cl. 427-34.000.
Maeda, Shigeyoshi; Yamamoto, Masahiro; Omata, Hiroyasu; and Okada, Hideya, 4,692,191, Cl. 148-6.14R.
Ozaki, Yoshio; Tsurumoto, Kazuo; Yatomi, Takeshi; and Yamamoto, Masahiro, 4,695,696, Cl. 219-69.00P.
Yamamoto, Masaki: *See*—
Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi, 4,646,089, Cl. 340-995.000.
Takanabe, Kazunori; Yamamoto, Masaki; Ito, Kenzo; and Fujinami, Hiroshi, 4,675,676, Cl. 340-995.000.
Yamamoto, Masami: *See*—
Kasugai, Joji; and Yamamoto, Masami, 4,666,056, Cl. 220-203.000.
Yamamoto, Masanori: *See*—
Fujihara, Takeo; Yamatani, Akira; Yamamoto, Masanori; and Kunimoto, Yuji, 4,705,209, Cl. 229-109.000.
Sugisawa, Ko; Yamamoto, Masanori; Yasuda, Ataushi; Nomura, Yukihiro; and Amano, Toshio, 4,637,739, Cl. 435-69.000.
Sugisawa, Ko; Yamamoto, Masanori; and Nakanaga, Ryusuke, 4,703,149, Cl. 219-10.55E.
Yamamoto, Masatoshi; Kawai, Yasushi; Shudo, Katsuyoshi; Kato, Hiroyuki; and Masuda, Shunsuke, to Daiwa Can Company, Limited. Electrode roll for electric resistance welding. 4,642,437, 2-10-87, Cl. 219-84.000.

Yamamoto, Masatoshi: *See*—
Yokoyama, Yoichi; Hamaguchi, Hiroaki; and Yamamoto, Masatoshi, 4,703,294, Cl. 335-121.000.
Yamamoto, Masaya; and Ikeda, Kenji, to Morimoto Mfg. Co., Ltd. Sewing device for use in multi-needle sewing machine. 4,667,611, 5-26-87, Cl. 112-166.000.
Yamamoto, Masayoshi: *See*—
Tezuka, Sigeru; Yamamoto, Shoichi; and Yamamoto, Masayoshi, 4,715,942, Cl. 204-299.00R.
Yamamoto, Masayuki: *See*—
Minematsu, Yoshihiko; Tanaka, Minoru; Yamamoto, Masayuki; and Sakamoto, Kenichiro, 4,684,313, Cl. 414-735.000.
Yamamoto, Michihiro; Ozato, Yukinori; Tamura, Nobuhiko; Miyagishi, Akira; and Hara, Youichi, to Sumitomo Pharmaceuticals Company, Limited. Novel oxadiazolyl-1,4-dihydropyridines useful as antihypertensive agents. 4,705,786, 11-10-87, Cl. 514-252.000.
Yamamoto, Michihiro: *See*—
Muraoka, Masami; Nakamura, Toshio; Sugie, Akihiko; Ono, Kenichi; and Yamamoto, Michihiro, 4,680,307, Cl. 514-460.000.
Yamamoto, Michinori; and Tashiro, Shozo, to Mitsubishi Jukogyo Kabushiki Kaisha. Device for driving multi-drum coiler or un-coiler. 4,663,986, 5-12-87, Cl. 74-665.00N.
Yamamoto, Mikio, to Tokyo Electric Co., Ltd. Product sales data processing system for on-line connection to host CPU. 4,683,536, 7-28-87, Cl. 364-408.000.
Yamamoto, Mikio: *See*—
Kojima, Tetsuji; and Yamamoto, Mikio, 4,676,191, Cl. 118-657.000.
Yamamoto, Minoru: *See*—
Tajima, Ichiro; and Yamamoto, Minoru, 4,649,071, Cl. 428-212.000.
Tamura, Toshinari; Iwamoto, Hidenori; Yoshida, Makoto; and Yamamoto, Minoru, 4,636,567, Cl. 548-336.000.
Yamamoto, Mitsuo: *See*—
Yamamoto, Tsutomu; Nishiyama, Michio; Yamamoto, Mitsuo; and Ozaki, Masakazu, 4,690,867, Cl. 428-367.000.
Yamamoto, Mitsuoki: *See*—
Suzuki, Yoshio; Yamamoto, Mitsuoki; and Hosomi, Hisashi, 4,692,065, Cl. 405-211.000.
Yamamoto, Mitsuru; Watanabe, Kunio; and Shimoda, Junji, to Canon Kabushiki Kaisha. Apparatus for driving liquid jet head. 4,639,735, 1-27-87, Cl. 346-1.100.
Yamamoto, Mitsuru, to Canon Kabushiki Kaisha. Image recording apparatus. 4,639,746, 1-27-87, Cl. 346-140.00R.
Yamamoto, Mitsuru; Sakurada, Nobuaki; and Watanabe, Yoshitaka, to Canon Kabushiki Kaisha. Ink-jet head driving circuit. 4,714,935, 12-22-87, Cl. 346-140.00R.
Yamamoto, Mitsuru: *See*—
Kan, Fumitaka; Hayakawa, Naoji; Majima, Toshiaki; Takenouchi, Masanori; Yamamoto, Mitsuru; Suzuki, Hidetoshi; and Nomura, Ichiro, 4,675,699, Cl. 346-76.00R.
Yamamoto, Mitsuoki: *See*—
Suzuki, Yoshio; Suzuki, Yoshio; Saitoh, Satoshi; Yamamoto, Mitsuoki; and Hosomi, Hisashi, 4,693,637, Cl. 405-224.000.
Yamamoto, Motoharu: *See*—
Kida, Tohru; and Yamamoto, Motoharu, 4,690,811, Cl. 423-345.000.
Yamamoto, Munemitsu: *See*—
Ueno, Ryuzo; Kanayama, Tatsuo; Fujita, Yatsuka; and Yamamoto, Munemitsu, 4,647,458, Cl. 424-128.000.
Yamamoto, Naofumi; Sekizawa, Hidekazu; and Saito, Tutomu, to Kabushiki Kaisha Toshiba. Color signal processing apparatus with a signal interpolation function for use in a color copier. 4,672,433, 6-9-87, Cl. 358-80.000.
Yamamoto, Naofumi, to Kabushiki Kaisha Toshiba. Method and apparatus for reproducing color image. 4,675,704, 6-23-87, Cl. 346-160.000.
Yamamoto, Naofumi: *See*—
Sekizawa, Hidekazu; Iwamoto, Akito; Yamamoto, Naofumi; and Yoneda, Hitoshi, 4,661,843, Cl. 358-80.000.
Sekizawa, Hidekazu; Kawakami, Haruko; and Yamamoto, Naofumi, 4,698,669, Cl. 358-76.000.
Yamamoto, Noboru; and Yamasaki, Tetsuya, to Nippon Sheet Glass Co., Ltd. Optical plane circuit with an optical coupler and a method for manufacturing the same. 4,637,681, 1-20-87, Cl. 350-96.120.
Yamamoto, Noboru; Mase, Katsuhisa; Kawai, Motoshi; Miyase, Yoshiyuki; and Matsui, Takeshi, to Nippondenso Co., Ltd. Ignition system for internal combustion engines. 4,658,788, 4-21-87, Cl. 123-418.000.
Yamamoto, Noboru: *See*—
Fujita, Yuji; and Yamamoto, Noboru, 4,657,980, Cl. 525-146.000.
Kawai, Motoshi; Yamamoto, Noboru; Mase, Katuhisa; Matsui, Takeshi; Mikino, Tomoatsu; Miyase, Yoshiyuki; Okuda, Ryoichi; and Suzumura, Koichi, 4,649,888, Cl. 123-609.000.
Saito, Makoto; Inoue, Hiroshi; and Yamamoto, Noboru, 4,704,196, Cl. 204-130.000.
Yamaguchi, Kouji; Kawahara, Eiichiro; and Yamamoto, Noboru, 4,637,293, Cl. 91-507.000.
Yamamoto, Nobuaki: *See*—
Sato, Yoshuhiko; and Yamamoto, Nobuaki, 4,686,413, Cl. 313-346.00R.
Yamamoto, Nobuyuki, to Fuji Photo Film Co., Ltd. Process for producing magnetic discs. 4,704,179, 11-3-87, Cl. 156-292.000.
Yamamoto, Nobuyuki, to Fuji Photo Film Co., Ltd. Oriented sheet supports in a recording disc. 4,704,650, 11-3-87, Cl. 360-135.000.
Yamamoto, Nobuyuki: *See*—
Kamigaito, Osami; Doi, Haruo; Noue, Shoji; and Yamamoto, Nobuyuki, 4,645,115, Cl. 228-121.000.
Miyoshi, Takahito; Matsufuji, Akihiro; Yamamoto, Nobuyuki; Miyatsuka, Hajime; and Fujiyama, Masaaki, 4,687,704, Cl. 428-328.000.
Miyoshi, Takahito; Fujiyama, Masaaki; Matsufuji, Akihiro; and Yamamoto, Nobuyuki, 4,690,863, Cl. 428-328.000.
Yamamoto, Norio: *See*—
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,673,692, Cl. 514-583.000.
Suzuki, Yasushi; Hasegawa, Yukio; Sato, Michitaka; Saito, Morinobu; Yamamoto, Norio; Miyasaka, Katsuhiko; Mikami, Takashi; and Miyazawa, Katsuhiko, 4,695,581, Cl. 514-415.000.
Yamamoto, Noriyuki: *See*—
Kato, Hideki; Yamamoto, Noriyuki; Ogasawara, Takahisa, deceased; and Asai, Masami, deceased, 4,668,719, Cl. 523-458.000.
Yamamoto, Osamu; and Yamada, Muneki, to Toyo Seikan Kaisha, Ltd. Method of making a plastic cap. 4,649,013, 3-10-87, Cl. 264-318.000.
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Yamamoto, Osamu; Sano, Shoichi; and Furukawa, Yoshimi, to Honda Giken Kogyo Kabushiki Kaisha. Steering system for vehicles. 4,660,844, 4-28-87, Cl. 280-91.000.
Yamamoto, Osamu; Takiguchi, Haruhisa; and Matsui, Sadayoshi, to Sharp Kabushiki Kaisha. Apparatus for measuring reflectivities of resonator facets of semiconductor laser. 4,660,983, 4-28-87, Cl. 356-445.000.
Yamamoto, Osamu: *See*—
Baba, Sueki; Yamamoto, Osamu; Yamashita, Tadaoki; and Tsutsui, Hiroshi, 4,651,005, Cl. 250-360.100.
Ikedo, Masaru; Watari, Masafumi; Hayashi, Yoshiaki; Yamamoto, Osamu; and Tsutsui, Hiroshi, 4,678,275, Cl. 350-96.340.
Kubo, Shigeki; and Yamamoto, Osamu, 4,675,171, Cl. 423-617.000.
Okumura, Munehiro; Kuwahara, Kazuo; Arita, Masujiro; Mori, Shingo; Ohmura, Tetsuya; Yamamoto, Osamu; and Ishii, Shimichi, 4,668,401, Cl. 210-650.000.
Yamamoto, Ralph: *See*—
Lin, Leo S.; and Yamamoto, Ralph, 4,677,197, Cl. 530-417.000.
Yamamoto, Ronald K.; and Pesotchinsky, Sophia, to Vitaphore Corporation. Positionable tissue interfacing device for the management of percutaneous conduits. 4,676,782, 6-30-87, Cl. 604-175.000.
Yamamoto, Ryoichi: *See*—
Mineshima, Hideo; Koda, Haruyuki; and Yamamoto, Ryoichi, 4,692,501, Cl. 526-65.000.
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Yokoi, Shigeo; Isozaki, Takashi; Yamamoto, Ryuta; and Kawaguchi, Toshiyuki, 4,709,330, Cl. 364-400.000.
Yamamoto, Saburo; Hayashi, Hiroshi; Morimoto, Taiji; and Yano, Seiki, to Sharp Kabushiki Kaisha. Semiconductor laser with a two-striped channel. 4,677,633, 6-30-87, Cl. 372-45.000.
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Hayakawa, Toshiro; Suyama, Takahiro; and Yamamoto, Saburo, 4,691,214, Cl. 357-17.000.
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Hayakawa, Toshiro; Suyama, Takahiro; and Yamamoto, Saburo, 4,694,460, Cl. 372-45.000.
Yano, Seiki; Yamamoto, Saburo; Hayashi, Hirosi; and Morimoto, Taiji, 4,686,679, Cl. 372-48.000.
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Yano, Seiki; Yamamoto, Saburo; Takiguchi, Haruhisa; and Kaneiwa, Shinji, 4,712,219, Cl. 372-45.000.
Yamamoto, Sadaaki: *See*—
Kobayashi, Sadao; Sukawa, Hiroshi; and Yamamoto, Sadaaki, 4,656,105, Cl. 429-192.000.
Yamamoto, Sakae; and Mizuno, Tsutomu, to Amada Company, Limited. Linear stepping motor. 4,714,849, 12-22-87, Cl. 310-12.000.
Yamamoto, Sakuei; and Nishida, Mitsuhiro, to Mitsubishi Denki Kabushiki Kaisha. Molded-type underwater motor. 4,651,039, 3-17-87, Cl. 310-87.000.
Yamamoto, Satoru: *See*—
Tanaka, Takashi; and Yamamoto, Satoru, 4,637,233, Cl. 68-198.000.
Yamamoto, Seiichi: *See*—
Sugiyama, Norihide; Funato, Katsuro; Nagase, Hiroshi; Yamamoto, Seiichi; and Miyamori, Shigeo, 4,702,989, Cl. 430-137.000.
Yamamoto, Seiji. Magnetically operated actuator. 4,658,230, 4-14-87, Cl. 335-230.000.
Yamamoto, Shigehiko, to Hitachi, Ltd. Thin film formation technique and equipment. 4,639,377, 1-27-87, Cl. 427-10.000.
Yamamoto, Shigehiko: *See*—
Tamura, Hifumi; Yamamoto, Shigehiko; Shichi, Hiroyasu; and Ishitani, Toru, 4,687,930, Cl. 250-309.000.
Yamamoto, Shigehiro; Hashimoto, Terukuni; Kobayashi, Mitsuo; Iwaki, Tsugishige; Tamura, Katsushige; and Saijo, Hideo, to Nippon Shokubai Kagaku Kogyo Co., Ltd. Method for manufacture of fiber reinforced thermosetting resin molding material. 4,702,872, 10-27-87, Cl. 264-114.000.
Yamamoto, Shigeo, to Honda, Keisuke. Color sonar system for displaying echo signals from fish. 4,686,659, 8-11-87, Cl. 367-87.000.
Yamamoto, Shigeo: *See*—
Noguchi, Hiroshi; Kato, Toshiro; Takahashi, Junya; Ishiguri, Yukio; Yamamoto, Shigeo; and Hirata, Naonori, 4,666,943, Cl. 514-627.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,582, Cl. 514-482.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Ishiguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,583, Cl. 514-482.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,647,584, Cl. 514-485.000.

Takahashi, Junya; Kato, Toshiro; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; and Kamoshita, Katsuzo, 4,666,938, Cl. 514-479.000.

Takahashi, Junya; Noguchi, Hiroshi; Oguri, Yukio; Yamamoto, Shigeo; Kato, Toshiro; and Kamoshita, Katsuzo, 4,672,070, Cl. 514-346.000.

Yamamoto, Shigeru; and Akiba, Masaru, to Daiwa Seiko Inc. Fishing rod. 4,693,029, 9-15-87, Cl. 43-22.000.

Yamamoto, Shin; and Nishikura, Hiroshi, to Taki Chemical Co., Ltd. Refractory composition. 4,699,661, 10-13-87, Cl. 106-162.000.

Yamamoto, Shinichi; Ito, Toshihiko; and Asano, Mitsuru, to Nippon Soken, Inc. Method for producing extrusion die for forming a honeycomb structure. 4,640,454, 2-3-87, Cl. 228-161.000.

Yamamoto, Shinichi: *See*—
Yamagata, Taizo; Uchikawa, Takaaki; Yamamoto, Shinichi; Tomikawa, Shinichiro; Ogasahara, Yoshio; and Sukagawa, Masaru, 4,694,736, Cl. 98-31.600.

Yamamoto, Shinichiro; Sudo, Shigeki; and Ohmizu, Tsuyoshi, to Chlorine Engineers Corp. Ltd. Electrolytic cell for sea water. 4,654,135, 3-31-87, Cl. 204-269.000.

Yamamoto, Shinichiro: *See*—
Nishino, Kenichi; Kobayashi, Atsuo; Higashi, Sachio; Yamamoto, Shinichiro; and Yasuda, Kiyoshi, 4,640,950, Cl. 524-265.000.

Yamamoto, Shinji; Kaijiri, Kouhei; Nagakura, Kouichi; Oda, Denichi; Matsumori, Yasuo; and Nakayama, Kimio, to UBE Industries, Ltd. Fiber-reinforced rubber composition and production process thereof and fiber-reinforced elastic product. 4,703,086, 10-27-87, Cl. 525-133.000.

Yamamoto, Shoichi: *See*—
Tezuka, Sigeru; Yamamoto, Shoichi; and Yamamoto, Masayoshi, 4,715,942, Cl. 204-299.00R.

Yamamoto, Shoji: *See*—
Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Goto, Masaki, 4,709,935, Cl. 280-91.000.

Uda, Youichi; Matsushima, Seiya; Saito, Kazuhiko; Yamamoto, Shoji; and Murakami, Kazuhiro, 4,637,238, Cl. 70-456.00R.

Yamamoto, Shosaku: *See*—
Toyama, Takashi; Ohno, Masashi; Ishii, Kiminori; Yamamoto, Shosaku; and Kakinuma, Kazuo, 4,707,381, Cl. 427-407.100.

Yamamoto, Shuichi: *See*—
Sakai, Yoshio; Nagai, Ryo; Yamamoto, Shuichi; Nakamura, Hideo; and Noguchi, Kouki, 4,707,718, Cl. 357-45.000.

Yamamoto, Shuji, to Bose Corporation. Cabinet for loudspeaker. 4,650,031, 3-17-87, Cl. 181-156.000.

Yamamoto, Shuji; Kishimoto, Yoshio; Terakado, Seishi; and Shinoda, Hideho, to Matsushita Electric Industrial Co., Ltd. PTC heating wire. 4,661,690, 4-28-87, Cl. 219-549.000.

Yamamoto, Shukou: *See*—
Ohashi, Toshio; and Yamamoto, Shukou, 4,682,208, Cl. 357-81.000.

Yamamoto, Sigeyasu: *See*—
Hiraoka, Tetsuo; Hatamura, Koichi; and Yamamoto, Sigeyasu, 4,686,944, Cl. 123-52.0MV.

Yamamoto, Soichiro; and Shimada, Takeo, to Fuji Photo Film Co., Ltd. Silver halide color photographic light-sensitive material. 4,639,409, 1-27-87, Cl. 430-505.000.

Yamamoto, Suguru: *See*—
Tsumura, Akio; Yamamoto, Suguru; and Miyaake, Chiharu, 4,684,256, Cl. 356-367.000.

Yamamoto, Sumio, to Mitsubishi Denki Kabushiki Kaisha. Process for suppressing electron beam drift phenomenon in a cathode ray tube. 4,663,572, 5-5-87, Cl. 315-383.000.

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Yamamoto, Susumu; Sato, Toshiaki; Ikai, Takasi; Nawamaki, Tsutomu; and Oguti, Tosihiko, to Nissan Chemical Industries, Ltd. Pyrazolesulfonylurea amides and chlorides. 4,689,417, 8-25-87, Cl. 548-376.000.

Yamamoto, Syunji; Yamada, Tadatoshi; Morita, Masao; and Matsuda, Tetsuya, to Mitsubishi Denki Kabushiki Kaisha. Apparatus and process for generating a homogeneous magnetic field. 4,652,826, 3-24-87, Cl. 324-320.000.

Yamamoto, Tadahiro: *See*—
Iwano, Hiroshi; Yamamoto, Tadahiro; Ota, Tadaki; Ogane, Hiroshi; Ohnishi, Eiichi; and Yonezawa, Atsushi, 4,699,110, Cl. 123-472.000.

Yamamoto, Tadashi; Imai, Masafumi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, to Toa Nenryo Kogyo Kabushiki Kaisha. Process for preparing catalyst component for polymerization of olefins. 4,654,318, 3-31-87, Cl. 502-119.000.

Yamamoto, Tadashi, to Sony Corporation. Single frequency remote control of telephone answering device accomplishes several functions dependent on the present state of the device. 4,654,485, 3-31-87, Cl. 379-73.000.

Yamamoto, Tadashi, to Sony Corporation. Automatic telephone answering apparatus with recorded cue signals separating each incoming message. 4,710,950, 12-1-87, Cl. 379-70.000.

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Yamamoto, Tadashi: *See*—
Hiroyuki, Furuhashi; Yamamoto, Tadashi; Imai, Masafumi; and Ueno, Hiroshi, 4,693,990, Cl. 502-116.000.

Imai, Masafumi; Yamamoto, Tadashi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,652,541, Cl. 502-119.000.

Imai, Masafumi; Yamamoto, Tadashi; Furuhashi, Hiroyuki; Ueno, Hiroshi; and Inaba, Naomi, 4,711,939, Cl. 526-124.000.

Kuriyama, Minoru; and Yamamoto, Tadashi, 4,691,755, Cl. 164-305.000.

Yamamoto, Taizo: *See*—
Doi, Sadao; Yamada, Tohru; Matsumoto, Shungo; and Yamamoto, Taizo, 4,697,644, Cl. 172-123.000.

Yamamoto, Takaaki; and Tamura, Kaoru, to Fuji Photo Film Co., Ltd. Cleaning apparatus for stimulable phosphor sheet. 4,703,537, 11-3-87, Cl. 15-102.000.

Yamamoto, Takashi, to Fuji Photo Film Co., Ltd. Method and apparatus for exposure correction in color printing from exposed photographic color film. 4,707,120, 11-17-87, Cl. 355-38.000.

Yamamoto, Takashi: *See*—
Ikeda, Toshiki; Beppu, Yoshitugu; Yamamoto, Takashi; Ishigaki, Hideyo; and Ohmura, Hiroshi, 4,698,367, Cl. 521-57.000.

Kondo, Katsumi; Tsuchiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,681,647, Cl. 156-172.000.

Ohmura, Hiroshi; Oshibe, Yoshihiro; Nakayama, Masaharu; and Yamamoto, Takashi, 4,698,388, Cl. 525-88.000.

Sasaki, Isao; Nishida, Kozi; Morimoto, Masaru; and Yamamoto, Takashi, 4,693,553, Cl. 350-96.340.

Tsunooka, Tsutomu; Saito, Shigeo; Yamamoto, Takashi; and Ito, Hiroshi, 4,675,123, Cl. 252-62.900.

Yamazawa, Yasushi; Kondo, Katsumi; Tsutiya, Yasuhiro; Niimi, Takatsune; Yamamoto, Takashi; and Matsuba, Kunihiro, 4,673,451, Cl. 156-172.000.

Yamamoto, Takayuki: *See*—
Minamizaki, Yoshihiro; Miki, Yoshio; Yamamoto, Takayuki; Ito, Akira; and Sakagami, Toshinori, 4,699,938, Cl. 524-271.000.

Yamamoto, Takemi; and Tomida, Yasutaka, to Brother Kogyo Kabushiki Kaisha. Printing apparatus with a thermal print head. 4,639,152, 1-27-87, Cl. 400-120.000.

Yamamoto, Takemi; and Miki, Yasuhiro, to Brother Kogyo Kabushiki Kaisha. Apparatus for dot-matrix printing of characters missing from a type carrier. 4,685,814, 8-11-87, Cl. 400-82.000.

Yamamoto, Takeshi: *See*—
Aizawa, Masandou; Yamauchi, Shigekazu; Sekine, Hisao; and Yamamoto, Takeshi, 4,684,218, Cl. 350-339.00F.

Yamamoto, Takushi: *See*—
Nakamura, Mojio; Obayashi, Shigeji; Yamamoto, Takushi; Nakanishi, Toshikazu; Tanaka, Hitoshi; and Sakamoto, Yuji, 4,683,274, Cl. 526-216.000.

Yamamoto, Tatsushi: *See*—
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Yamamoto, Tatsuya: *See*—
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Yagihara, Morio; Hirano, Tsumoru; Yamamoto, Tatsuya; and Sakanoue, Kei, 4,668,613, Cl. 430-548.000.

Yamamoto, Tetsuhiro: *See*—
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Yamamoto, Tetsuji: *See*—
Ochi, Hiroshi; Tetsutani, Nobuji; Yamamoto, Tetsuji; Kitani, Shigehisa; and Watanabe, Asao, 4,698,688, Cl. 358-257.000.

Yamamoto, Tetsuya: *See*—
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Yamamoto, Tomohiro: *See*—
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Yamamoto, Toshiaki; Kako, Hiroyoshi; Shibata, Takuo; Izuo, Takashi; Kamimae, Hajime; and Takegawa, Hiroaki, to Toyota Jidosha Kabushiki Kaisha. Hydraulic buffer. 4,696,379, 9-29-87, Cl. 188-299.000.

Yamamoto, Toshiro; Kobayashi, Ryohei; Kurimoto, Mamoru; and Ozone, Toshio, to Aichi Steel Works, Ltd.; and Chuo Hatsujo Kabushiki Kaisha. Process for improving the sag-resistance and hardenability of a spring steel. 4,711,675, 12-8-87, Cl. 148-144.000.

Yamamoto, Toshiro: *See*—
Horie, Kiyoshi; Noami, Tsuneo; Masuda, Koji; Saitoh, Koichi; Maruyama, Kazuo; Fujimura, Yoshihiko; Suemitsu, Yuji; and Yamamoto, Toshiro, 4,653,896, Cl. 355-3.0DD.

Yamamoto, Toshiyuki: *See*—
Matsuura, Takanobu; and Yamamoto, Toshiyuki, 4,641,150, Cl. 346-76.0PH.

Matsuura, Takanobu; and Yamamoto, Toshiyuki, 4,644,371, Cl. 346-76.0PH.

Matsuura, Takanobu; and Yamamoto, Toshiyuki, 4,667,210, Cl. 346-139.00R.

Yamamoto, Tosiyuki: *See*—
Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, 4,650,804, Cl. 514-306.000.
Kitaura, Yoshihiko; Oku, Teruo; Hirai, Hideo; Yamamoto, Tosiyuki; and Hashimoto, Masashi, 4,698,349, Cl. 514-306.000.

Yamamoto, Tsutomu; Nishiyama, Michio; Yamamoto, Mitsuo; and Ozaki, Masakazu, to Nichias Corporation. Material for low melting point metal casting equipment. 4,690,867, 9-1-87, Cl. 428-367.000.

Yamamoto, Tsutomu, to Olympus Optical Co., Ltd. Endoscope device. 4,706,653, 11-17-87, Cl. 128-4.000.

Yamamoto, Tsuyoshi; Okada, Nobuhide; and Kawamura, Yasuo, to Fujitsu Ltd. Mounting structure of flat-lead package-type electronic component. 4,703,393, 10-27-87, Cl. 361-405.000.

Yamamoto, Wataru, to Suzuki Jidosha Kogyo Kabushiki Kaisha. Supercharge pressure control apparatus of a supercharged engine. 4,637,210, 1-20-87, Cl. 60-602.000.

Yamamoto, Yasakao: *See*—
Itoh, Fumihiko; Usagawa, Tatumi; Sakai, Ryo; and Yamamoto, Yasakao, 4,635,615, Cl. 126-273.00A.
Itoh, Fumihiko; Usagawa, Tatumi; Sakai, Ryo; and Yamamoto, Yasakao, 4,666,113, Cl. 248-201.000.

Yamamoto, Yasuhiko: *See*—
Kubo, Kanji; Asanuma, Nobuyoshi; Saito, Kazuo; and Yamamoto, Yasuhiko, 4,690,426, Cl. 280-690.000.

Yamamoto, Yasuhiro, to Canon Kabushiki Kaisha. Microfiche carrier. 4,704,019, 11-3-87, Cl. 353-27.00R.

Yamamoto, Yasukiyo: *See*—
Kondo, Hirotatsu; and Yamamoto, Yasukiyo, 4,659,914, Cl. 235-380.000.

Yamamoto, Yasuo: *See*—
Hanaoka, Katsumi; Yamamoto, Yasuo; Arii, Kazuhiro; and Tanaka, Kazuhiro, 4,646,803, Cl. 150-52.00R.
Kanno, Iseo; and Yamamoto, Yasuo, 4,708,669, Cl. 440-1.000.
Tanaka, Kazuhiro; Yamamoto, Yasuo; Hanaoka, Katsumi; and Hirai, Masatake, 4,639,707, Cl. 336-185.000.
Yoshihara, Mitsuo; Morikawa, Yoshitada; Yamamoto, Yasuo; Komada, Mitsuharu; and Hattori, Masaaki, 4,645,297, Cl. 350-96.230.

Yamamoto, Yasushi: *See*—
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Itoh, Kunio; Okada, Fumio; Yamamoto, Yasushi; and Aoki, Hisashi, 4,707,503, Cl. 522-99.000.
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Watanabe, Takahiko; Sugano, Toshiyuki; Yamamoto, Yasushi; and Murayama, Kunihiko, 4,673,541, Cl. 264-25.000.

Yamamoto, Yoko: *See*—
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Yamamoto, Yorihisa: *See*—
Yagi, Shizuo; Kawai, Makoto; and Yamamoto, Yorihisa, 4,709,678, Cl. 123-425.000.

Yamamoto, Yoshiaki: *See*—
Fujita, Yoshitada; Hanada, Sadashi; and Yamamoto, Yoshiaki, 4,637,540, Cl. 228-49.200.
Fujita, Yoshitada; Hanada, Sadashi; Yamamoto, Yoshiaki; and Nakabayashi, Akira, 4,645,412, Cl. 414-786.000.

Yamamoto, Yoshiharu; Miyatake, Yoshito; Nakajima, Yasuo; Nagaoka, Yoshitomi; and Ono, Syusuke, to Matsushita Electric Industrial Co., Ltd. Projection lens. 4,704,009, 11-3-87, Cl. 350-432.000.

Yamamoto, Yoshiharu: *See*—
Nakajima, Yasuo; Yamamoto, Yoshiharu; Miyatake, Yoshito; Nagaoka, Yoshitomi; and Ono, Shusuke, 4,690,515, Cl. 350-432.000.

Yamamoto, Yoshihiro; and Hijikigawa, Masaya, to Sharp Kabushiki Kaisha. Thin-film solar cells. 4,672,148, 6-9-87, Cl. 136-258.000.

Yamamoto, Yoshimasa, to Kabushiki Kaisha Kobe Seiko Sho. Apparatus for collapsing burnable poison rods for storage in reduced volume. 4,650,606, 3-17-87, Cl. 252-626.000.

Yamamoto, Yoshinori, to Daikyo Service Station Development Co. Ltd. Checker for air conditioner. 4,638,671, 1-27-87, Cl. 73-708.000.

Yamamoto, Yoshinori: *See*—
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Horikawa, Kenichi; Yamamoto, Yoshinori; and Kawakami, Kenji, 4,644,433, Cl. 360-132.000.
Ohyama, Masao; Yamamoto, Yoshinori; Horikawa, Kenichi; and Kawakami, Kenji, 4,694,360, Cl. 360-96.300.

Yamamoto, Yoshio, to Murata Kikai Kabushiki Kaisha. Empty bobbin transporting system. 4,676,061, 6-30-87, Cl. 57-276.000.

Yamamoto, Yoshio: *See*—
Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.

Yamamoto, Yoshitaka: *See*—
Kokubo, Ichiro; Mizuta, Atsuo; Yamamoto, Yoshitaka; and Kitazawa, Jitsuo, 4,712,414, Cl. 72-366.000.

Yamamoto, Yoshun; Okubo, Hitoshi; Watanabe, Yutaka; Uchiyama, Eizo; and Yasunaga, Yutaka, to Nippon Steel Corporation. Roll forming apparatus. 4,697,446, 10-6-87, Cl. 72-178.000.

Yamamoto, Yosiharu: *See*—
Fuji, Masaki; Sakai, Takao; Sakurai, Hideo; and Yamamoto, Yosiharu, 4,701,505, Cl. 526-125.000.

Yamamoto, Yuichi, to Terumo Kabushiki Kaisha. Drug administering apparatus. 4,681,582, 7-21-87, Cl. 604-890.000.

Yamamoto, Yuichi; Yoshida, Takashi; Fukatsu, Shunzo; and Ishimaru, Toshiyasu, to Meiji Seika Kaisha, Ltd. 3-(3,3,3-trifluoropropenyl) cephalosporins. 4,687,769, 8-18-87, Cl. 514-202.000.

Yamamoto, Yuichi; and Sameshima, Tadashi, to Terumo Kabushiki Kaisha. Immunoglobulin adsorbent and adsorption apparatus. 4,705,628, 11-10-87, Cl. 210-289.000.

Yamamoto, Yuichi: *See*—
Hyoki, Takuzan; Uchida, Atsushi; and Yamamoto, Yuichi, 4,706,776, Cl. 180-334.000.

Yamamoto, Yuko: *See*—
Akaeda, Tadayoshi; Yamamoto, Yuko; and Kanaoka, Katsuki, 4,646,102, Cl. 343-915.000.

Yamamoto, Yuuichi, to Mitsubishi Denki Kabushiki Kaisha. Electric lead device for superconducting electric apparatus. 4,695,675, 9-22-87, Cl. 174-15.0CA.

Yamamoto, Yuzo: *See*—
Arakawa, Hideo; Sugiyama, Gunji; Tange, Koichi; Hongo, Takero; Yamamoto, Yuzo; and Ohba, Hiroyuki, 4,700,302, Cl. 364-424.000.
Doi, Shunichi; Sugiura, Noboru; Hayashi, Yasutaka; and Yamamoto, Yuzo, 4,700,971, Cl. 280-707.000.

Yamamura, Hideho: *See*—
Saitoh, Takashi; Niizaki, Nobuya; Yamamura, Hideho; and Hayashi, Shinichi, 4,710,654, Cl. 307-601.000.

Yamamura, Hirohisa; Naito, Shotaro; and Katogi, Kozo, to Hitachi, Ltd. Electronic odometer. 4,665,497, 5-12-87, Cl. 364-561.000.

Yamamura, Hirohisa: *See*—
Kugo, Masaru; Ouchi, Hideyuki; Katogi, Kouzou; Igarashi, Osamu; Suda, Seiji; Tokuyama, Kenichi; and Yamamura, Hirohisa, 4,708,440, Cl. 350-339.00F.

Yamamura, Hiroshi: *See*—
Shirasaki, Shin-ichi; Hotta, Yasunari; Yamamura, Hiroshi; Matsuda, Shin-ichi; Kakegawa, Kazuyuki; Moriyoshi, Yusuke; Takahashi, Koichiro; and Haneda, Hajime, 4,696,810, Cl. 423-593.000.

Yamamura, Kazuomi; Ishihara, Hideo; Iwamoto, Yoshinao; Suzuki, Shizuo; Sirasaki, Yuichi; and Asakawa, Kenichi, to Kokusai Denshin Denwa Co., Ltd. Burying device for submarine cables and method for guiding the same. 4,678,371, 7-7-87, Cl. 405-164.000.

Yamamura, Keiji: *See*—
Nakatani, Hiroshi; Yoshida, Hirokazu; and Yamamura, Keiji, 4,710,680, Cl. 315-169.400.

Yamamura, Michio: *See*—
Sugano, Hiroshi; Ishida, Ryuichi; and Yamamura, Michio, 4,665,056, Cl. 514-18.000.
Sugano, Hiroshi; Ishida, Ryuichi; and Yamamura, Michio, 4,711,878, Cl. 514-18.000.

Yamamura, Mitsugu: *See*—
Yomoda, Minoru; and Yamamura, Mitsugu, 4,669,842, Cl. 353-101.000.

Yamamura, Sakae; and Yamaguchi, Hitoshi, to Fuji Electric Corporate Research and Development Co., Ltd.; and Fuji Electric Co., Ltd. Floating apparatus for attractive magnetic floater. 4,646,651, 3-3-87, Cl. 104-281.000.

Yamamura, Shigeyuki, to Fujitsu Limited. Package for a microwave semiconductor device. 4,672,151, 6-9-87, Cl. 174-52.0FP.

Yamamura, Shigeyuki, to Fujitsu Limited. Semiconductor device mounted in a housing having an increased cutoff frequency. 4,713,634, 12-15-87, Cl. 333-245.000.

Yamamura, Shigeyuki: *See*—
Nakamura, Yashuhide; and Yamamura, Shigeyuki, 4,635,196, Cl. 364-405.000.

Yamamura, Takashige: *See*—
Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; Ueno, Tsuneya; Matsumoto, Satoshi; Dosai, Takayoshi; Ohtsuki, Fumikazu; Fujimoto, Kazuhiro; and Takahashi, Toshimitsu, 4,669,291, Cl. 72-83.000.
Asari, Akira; Yamamura, Takashige; Hattori, Shigeo; and Ueno, Tsuneya, 4,683,630, Cl. 29-159.010.

Yamamura, Takemi: *See*—
Yajima, Mantaro; Noda, Akiko; Okamura, Kiyohito; Hasegawa, Yoshio; and Yamamura, Takemi, 4,663,229, Cl. 428-364.000.

Yamamura, Touru: *See*—
Fujiwara, Masakatsu; Kamitani, Yutaka; and Yamamura, Touru, 4,675,266, Cl. 430-102.000.

Yamamura, Yasuharu: *See*—
Sekido, Satoshi; Tachibana, Hirokazu; and Yamamura, Yasuharu, 4,692,429, Cl. 502-303.000.

Yamamura, Yuichi; Kishimoto, Tadamitsu; Nakai, Satoru; and Hirai, Yoshikatsu, to Otsuka Pharmaceutical Co., Ltd. Human cultured cell line. 4,675,291, 6-23-87, Cl. 435-68.000.

Yamamura, Yukio: *See*—
Yukawa, Kazuhiko; Tasaka, Isao; and Yamamura, Yukio, 4,651,446, Cl. 36-132.000.

Yamamuro, Akira: *See*—
Fujikura, Yoshiaki; Yamamuro, Akira; and Nakajima, Motoki, 4,693,845, Cl. 512-9.000.

Yamamuro, Sigeaki: *See*—
Kumura, Haruyoshi; Abo, Keiju; Hirano, Hiroyuki; Yamamuro, Sigeaki; and Nakano, Masaki, 4,679,466, Cl. 74-863.000.
Nakano, Masaki; Yamamuro, Sigeaki; Hirano, Hiroyuki; Abo, Keiju; and Kumura, Haruyoshi, 4,651,776, Cl. 137-625.690.

Yamamuro, Takashi: *See*—
Shoji, Yoshio; Terao, Kazuo; Noda, Akihiko; Yamamuro, Takashi; and Sunaga, Takayuki, 4,662,311, Cl. 118-651.000.

Yamamuro, Tetsu; and Iwasaki, Kyuhachiro, to Ricoh Co., Ltd. Ink jet head for compressing ink to eject drops of ink. 4,700,203, 10-13-87, Cl. 346-140.00R.
Yamamuro, Tetsu. *See*—
Ueda, Yutaka; and Yamamuro, Tetsu, 4,711,798. Cl. 428-65.000.
Yamana, Keiichi: *See*—
Watanabe, Izumi; and Yamana, Keiichi, 4,671,648, Cl. 355-40.000.
Yamana, Masayuki: *See*—
Hisamoto, Iwao; and Yamana, Masayuki, 4,681,974, Cl. 560-87.000.
Yamana, Takahiro. *See*—
Komeya, Seiji; Yamana, Takahiro; and Inoue, Eiji, 4,660,881, Cl. 296-37.900.
Yamana, Toshifumi: *See*—
Kato, Hiroyuki; and Yamana, Toshifumi, 4,640,261, Cl. 126-39.00J.
Yamanada, Hideaki: *See*—
Takaya, Takao; Takasugi, Hisashi; Masugi, Takashi; Yamanada, Hideaki; and Kawabata, Kohji, 4,705,851, Cl. 540-215.000.
Yamanaka, Chiyoe: *See*—
Yoshida, Kunio; Yamanaka, Chiyoe; Sasaki, Takatomo; and Shimomura, Osamu, 4,670,117, Cl. 204-182.400.
Yamanaka, Hideaki: *See*—
Takaya, Takao; Takasugi, Hisashi; Yamanaka, Hideaki; Miyai, Kenji; and Inoue, Yoshikazu, 4,639,448, Cl. 514-226.000.
Takaya, Takao; Takasugi, Hisashi; and Yamanaka, Hideaki, 4,649,136, Cl. 514-202.000.
Yamanaka, Hidetoshi: *See*—
Yoshida, Masaru; Asano, Masaharu; Kaetsu, Isao; Nakai, Katsuyuki; Yamanaka, Hidetoshi; Shida, Keizo; and Shiraishi, Akira, 4,652,443, Cl. 424-487.000.
Yamanaka, Hiroshi, to NEC Corporation. Method of laser trimming in semiconductor wafer. 4,678,889, 7-7-87, Cl. 219-121.0LJ.
Yamanaka, Hiroshi: *See*—
Hayashida, Masatoshi; Suga, Takayuki; and Yamanaka, Hiroshi, 4,650,310, Cl. 355-3.0DD.
Yamanaka, Junichi, to Kabushiki Kaisha Toshiba. Gamma correction circuit. 4,686,562, 8-11-87, Cl. 358-32.000.
Yamanaka, Junichi, to Kabushiki Kaisha Toshiba. Pedestal control circuit. 4,701,786, 10-20-87, Cl. 358-32.000.
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yasutaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, to Mitsubishi Jukogyo Kabushiki Kaisha; and Sumitomo Metal Industries, Ltd. Method for thermal treatment of alloy for heat transfer pipes. 4,714,501, 12-22-87, Cl. 148-13.000.
Yamanaka, Kazuo: *See*—
Minami, Takao; Nagano, Hiroo; Yamanaka, Kazuo; Okada, Yasutaka; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; and Sasaguri, Nobuya, 4,715,909, Cl. 148-410.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, 4,710,237, Cl. 148-13.000.
Yamanaka, Masaaki; Inoue, Masayuki; and Asazuma, Harumitsu, to Oji Yuka Goseishi Co., Ltd. Synthetic paper of multilayer resin films. 4,705,719, 11-10-87, Cl. 428-323.000.
Yamanaka, Masaaki: *See*—
Toyoda, Takashi; Akimoto, Akira; Yamanaka, Masaaki; and Kobayasi, Yonetarou, 4,663,216, Cl. 428-212.000.
Yamanaka, Megumi: *See*—
Takeuchi, Koichi; Yamanaka, Megumi; Inada, Hisanobu; Kubo, Masayoshi; Katayama, Hideaki; Tokunaga, Kenji; and Miyamoto, Yoshinori, 4,649,780, Cl. 82-48.000.
Takeuchi, Koichi; Yamanaka, Megumi; Kubo, Masayoshi; Katayama, Hideaki; and Tokunaga, Kenji, 4,710,255, Cl. 156-361.000.
Yamanaka, Mitsuo: *See*—
Kamei, Eiichi; Shimomura, Yasushi; and Yamanaka, Mitsuo, 4,654,265, Cl. 428-398.000.
Okamoto, Hidemasa; Yamanaka, Mitsuo; and Fujii, Kazuyoshi, 4,663,372, Cl. 524-100.000.
Yamanaka, Mitsuyuki: *See*—
Hayashi, Yutaka; Mishuku, Toshio; Yamanaka, Mitsuyuki; and Iida, Hideyo, 4,694,116, Cl. 136-256.000.
Yamanaka, Motosuke: *See*—
Harigaya, Yasuji; Ogura, Hiroo; Mihara, Mitsuo; Yamanaka, Motosuke; and Yamatsu, Kiyomi, 4,661,630, Cl. 562-455.000.
Yamanaka, Osamu, to Mitsubishi Denki Kabushiki Kaisha. Fault detector for communications equipment using exclusive or circuitry. 4,658,206, 4-14-87, Cl. 324-51.000.
Yamanaka, Sekisuke; Yanase, Akira; Hasegawa, Kiyotaka; and Sakakino, Takahiro, to Omron Tateisi Electronics Co. Digital switch. 4,647,732, 3-3-87, Cl. 200-11.0TW.
Yamanaka, Shigeki: *See*—
Adachi, Toshio; Aoyagi, Toru; Kawaguchi, Akihisa; and Yamanaka, Shigeki, 4,706,419, Cl. 52-65.000.
Yamanaka, Shigeru: *See*—
Irikura, Tsutomu; Okamura, Kyuya; Okubo, Hideo; Mizuguchi, Hidemichi; and Yamanaka, Shigeru, 4,650,871, Cl. 544-382.000.
Kanou, Hideo; Kamata, Masahiro; and Yamanaka, Shigeru, 4,675,289, Cl. 435-18.000.
Yamanaka, Shoji: *See*—
Hattori, Makoto; and Yamanaka, Shoji, 4,669,830, Cl. 350-357.000.
Hottori, Makoto; and Yamanaka, Shoji, 4,707,283, Cl. 252-25.000.
Yamanaka Syokuhin Kogyo Co., Ltd.: *See*—
Nakajima, Shoji, 4,670,276, Cl. 426-274.000.
Yamanaka, Teruo; Sugimoto, Takao; and Hayakawa, Kizo. Microwave and luminous probe. 4,680,960, 7-21-87, Cl. 73-117.300.
Yamanaka, Torao, to Mitsubishi Denki Kabushiki Kaisha. Security system including a daughter station for monitoring an area and a remote parent station connected thereto. 4,651,143, 3-17-87, Cl. 340-691.000.
Yamanaka, Toshihiko: *See*—
Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; Yamanaka, Toshihiko; Nakanishi, Nobuyasu; and Noguchi, Noboru, 4,655,509, Cl. 303-10.000.
Ando, Masamoto; Takeuchi, Hiroaki; Yamada, Toyohisa; and Yamanaka, Toshihiko, 4,660,899, Cl. 303-115.000.
Yamanaka, Toshihiro: *See*—
Horie, Nobuyuki; Sakamoto, Noriaki; Fujikawa, Toshiaki; and Yamanaka, Toshihiro, 4,635,145, Cl. 360-78.000.
Yamanaka, Toshio; and Yamaguchi, Fumio, to Nippon Electric Glass Company, Limited. Sealing glass composition with lead calcium titanate filler. 4,710,479, 12-1-87, Cl. 501-15.000.
Yamanaka, Toshiro: *See*—
Watanabe, Toshinori; Sasaki, Koji; Yasunobu, Chuzuko; Iizuka, Yumiko; Nagai, Yoshiaki; Yamanaka, Toshiro; Yamakoshi, Minoru; and Tanaka, Takashi, 4,700,317, Cl. 364-488.000.
Yamanaka, Tsuneyasu: *See*—
Uotani, Masaki; Yamanaka, Tsuneyasu; and Fukumoto, Wasa, 4,664,876, Cl. 376-290.000.
Yamanaka, Tsutomu; and Yaoka, Osamu, to Yoshitomi Pharmaceutical Industries, Ltd. Ortho-aminomethylphenol compounds. 4,709,09[illegible] 11-24-87, Cl. 564-253.000.
Yamanaka, Tsutomu: *See*—
Ao, Hideki; Obata, Minoru; Yamanaka, Tsutomu; and Mikashim[illegible] Hiroshi, 4,713,381, Cl. 514-222.000.
Yamanaka, Yasutoshi; Ageishi, Kazunobu; and Izumida, Teruo, [illegible] Nippondenso Co., Ltd. Oil filter and cooler for internal combustion engine. 4,638,856, 1-27-87, Cl. 165-119.000.
Yamanaka, Yukio: *See*—
Ichihara, Takeo; Yamanaka, Yukio; and Tsurumaru, Akihik[illegible] 4,682,072, Cl. 313-115.000.
Yamanaka, Yutaka: *See*—
Kanayama, Tatsuya; Yamanaka, Yutaka; Toyoda, Hitoshi; Tanak[illegible] Akihiko; and Shinogaya, Toshikazu, 4,647,495, Cl. 428-246.00[illegible]
Yamanami, Tsuguya: *See*—
Murakami, Azuma; Taguchi, Yoshinori; and Yamanami, Tsuguy[illegible] 4,697,244, Cl. 364-520.000.
Taguchi, Yoshinori; and Yamanami, Tsuguya, 4,678,870, C[illegible] 178-19.000.
Taguchi, Yoshinori; and Yamanami, Tsuguya, 4,704,501, C[illegible] 178-19.000.
Yamanashi, Hidenori; Inada, Toshio; and Wakabayashi, Seiichi, [illegible] Yazaki Corporation. Spark plug connecting structure. 4,701,66[illegible] 10-20-87, Cl. 313-51.000.
Yamanashi, Takanori, to Olympus Optical Co., Ltd. Telephoto lens system. 4,709,998, 12-1-87, Cl. 350-454.000.
Yamanashi, William S.: *See*—
Boddie, Arthur W., Jr.; Frazer, James W.; and Yamanashi, William S., 4,674,481, Cl. 128-1.300.
Yamane, Hiroto: *See*—
Uetsuki, Haruo; Kobayashi, Takehiro; and Yamane, Hiroto, 4,710,689, Cl. 318-630.000.
Yamane, Iwao: *See*—
Fujita, Jiro; and Yamane, Iwao, 4,635,574, Cl. 112-121.120.
Yamane, Ken: *See*—
Komatsu, Hiroshi; and Yamane, Ken, 4,676,667, Cl. 384-99.000.
Yamane, Kunio; Ohmura, Kazutaka; Nakayama, Akira; and Takechi, Yasutoshi, to Yamane, Kunio; Calpis Food Industry Co., Ltd., Tha[illegible] and Mitsui Toatsu Chemicals, Inc. DNA coding for a signal amino acid sequence and DNA containing the same. 4,663,294, 5-5-87, Cl. 435-317.000.
Yamane, Kunio; Ohmura, Kazutaka; Yamazaki, Hisato; and Shiroza, Teruaki, to Yamane, Kunio; Calpis Food Industry Co., Ltd., The Daicel Chemical Industries, Ltd.; and Oji Corn Starch Co., Ltd. DNA coding for a signal peptide and DNA containing the same. 4,690,898, 9-1-87, Cl. 435-320.000.
Yamane, Kyooji: *See*—
Inoue, Tooru; Nagasawa, Kiyoshi; and Yamane, Kyooji, 4,700,11[illegible] Cl. 318-254.000.
Yamane, Mamoru: *See*—
Sato, Yasukazu; Matsuda, Kenichi; Ozaki, Hiromi; Suzuka, Teruo; and Yamane, Mamoru, 4,643,813, Cl. 204-157.780.
Yamane, Masayuki, to University of Rochester. Method and composition for the manufacture of gradient index glass. 4,686,195, 8-11-87, Cl. 501-12.000.
Yamane, Norihito: *See*—
Nagata, Kunio; Aoi, Tatsuo; Iwakiri, Norio; Osumi, Hiroshi; Ogata, Nobuyuki; and Yamane, Norihito, 4,681,994, Cl. 200-16.00B.
Yamane, Shigeki; Mori, Keijiro; and Sakamoto, Kyooya, to Matsushita Electric Industrial Co., Ltd.; and Matsushita Seiko Co., Ltd. PWM inverter apparatus. 4,691,269, 9-1-87, Cl. 363-41.000.
Yamane, Shigemi: *See*—
Sugai, Shinzo; Yamane, Shigemi; and Kuze, Takashi, 4,640,723, C[illegible] 148-411.000.
Yamane, Takehiko; Hashizume, Takuji; Yamashita, Katsuji; and Watanabe, Kiyoshi, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Benzoxazinorifamycin derivative, process for preparing the same and antibacterial agent containing the same. 4,690,919, 9-1-87, Cl. 514-183.000.
Yamane, Yasukuni: *See*—
Takakura, Masaki; Noguchi, Yoji; Yamane, Yasukuni; and Kako, Noritoshi, 4,695,966, Cl. 364-521.000.

Yamane, Yoshio: See—
Sakamoto, Masahiko; Yamane, Yoshio; and Hiramoto, Seigo. 4,654,506, Cl. 219-121.08ES.
Yamani Netsu Kogyo: See—
Kakubari, Shoichiro; and Okamura, Hidetomo. 4,635,612, Cl. 126-25.00R.
Yamanishi, Eiichi, to Kabushiki Kaisha Toshiba. Color image forming apparatus and method. 4,670,795, 6-2-87, Cl. 358-296.000.
Yamanishi, Eiichi, to Kabushiki Kaisha Toshiba. Image forming apparatus. 4,695,896, 9-22-87, Cl. 358-296.000.
Yamanishi, Kazuhiko; Shintani, Akimori; Okajima, Satoru; and Hanada, Toshiro, to Wako Pure Chemical Industries Ltd. Triphenyl methane derivatives and method of quantitatively measuring an oxidative substance. 4,673,635, 6-16-87, Cl. 435-10.000.
Yamanishi, Kazuhiko; and Hanada, Toshiro, to Wako Pure Chemical Industries, Ltd. Quantitative determination of substrate treated with oxidase. 4,695,540, 9-22-87, Cl. 435-10.000.
Yamanishi, Kazuhiko: See—
Sakata, Yoshitsugu; Miyashita, Yoshitomo; Hamanaka, Tadashi; Kodera, Hiroyuki; Miki, Yutaka; Yamanishi, Kazuhiko; and Hanada, Toshiro. 4,695,539, Cl. 435-10.000.
Yamanishi, Kazuhiro; Kobayashi, Masaaki; and Shimotashiro, Masafumi, to Matsushita Electric Industrial Co., Ltd. Video signal reproduction apparatus. 4,704,639, 11-3-87, Cl. 358-330.000.
Yamanishi, Masamichi: See—
Hirose, Masataka; Yamanishi, Masamichi; Osaka, Yukio; Ae, Tadashi; Ichikawa, Tadao; Yoshida, Noriyoshi; and Suemune, Ikuo. 4,672,577, Cl. 365-114.000.
Yamanishi, Nobue: See—
Takubo, Yoneharu; Horibe, Yasutaka; and Yamanishi, Nobue. 4,697,889, Cl. 350-392.000.
Yamanishi, Toru; Kameo, Yuji; Yoshida, Masaaki; Yuto, Masao; and Tanaka, Chihaja, to Sumitomo Electric Industries, Ltd. Glass fiber for optical transmission. 4,655,549, 4-7-87, Cl. 350/96.340.
Yamano, Eito; and Yamauchi, Yoshihiko, to Ikeda Bussan Co., Ltd. Take-down seat for automobile. 4,708,387, 11-24-87, Cl. 296-63.000.
Yamano, Fumiyuki; and Okajima, Atsushi, to Hitachi, Ltd. Method of translation between languages with information of original language incorporated with translated language text. 4,635,060, 1-6-87, Cl. 364-419.000.
Yamano, Fumiyuki: See—
Nitta, Yoshihiko; Okajima, Atsushi; and Yamano, Fumiyuki. 4,641,264, Cl. 364-900.000.
Yamano, Kenji; and Tamamura, Teruo, to Fuji Electric Co., Ltd. Fail-safe motor-driven cylinder for lifting apparatus. 4,635,491, 1-13-87, Cl. 74-89.150.
Yamano, Kozo, to Nippon Electric Co., Ltd. Data transfer apparatus. 4,652,991, 3-24-87, Cl. 364-200.000.
Yamano, Larry C., to United States of America, Air Force, Rotatic coherent radar receiving system. 4,644,356, 2-17-87, Cl. 342/160.000.
Yamano, Masaru; Sakai, Takashi; Furukawa, Nobuhiro; Murakami, Shuzo; and Matsumoto, Takaharu, to Sanyo Electric Co., Ltd. Metal-hydrogen alkaline storage battery. 4,636,445, 1-13-87, Cl. 429-53.000.
Yamano, Masaru; Kuwano, Yukinori; Nakano, Shoichi; Matsuoka, Tsugufumi; Sakai, Soiichi; Yagi, Hirosato; and Okuda, Nobuhiro, to Sanyo Electric Co., Ltd. Method of making semiconductor film. 4,670,291, 6-2-87, Cl. 427-39.000.
Yamano, Minoru: See—
Inagoya, Osamu; Fujiwara, Hideo; Tohtoh, Takeshi; Yamano, Minoru; Kumasaka, Noriyuki; Ohmori, Shigekazu; Kudo, Mitsuhiro; Morikawa, Junji; Ishihara, Kiyoshi; Uwai, Akira; and Hayashi, Masashi. 4,701,819, Cl. 360-122.000.
Yamato, Shoji, to Yamato Scale Company, Limited. Combination weighing machine. 4,660,661, 4-28-87, Cl. 177-25.000.
Yamato, Shoji; and Miyamoto, Isao, to Yamato Scale Company, Limited. Combination weighing method with two discharge paths and two target weights. 4,676,325, 6-30-87, Cl. 177-1.000.
Yamato, Shoji; and Miyamoto, Isao, to Yamato Scale Company, Limited. Combination weighing method. 4,706,766, 11-17-87, Cl. 177-1.000.
Yamato, Shoji; and Miyamoto, Isao, to Yamato Scale Company, Limited. Combination weighing method. 4,708,769, 12-1-87, Cl. 177-1.000.
Yamato, Shozo, to Nippon Kogaku K. K. Drive apparatus for solid-state image pickup device. 4,677,306, 6-30-87, Cl. 250-578.000.
Yamanobe, Sachio: See—
Sugano, Akira; and Yamanobe, Sachio. 4,653,276, Cl. 60-665.000.
Yamatoo, Hiroshi; Uedaira, Satoru; Suzuki, Masayuki; and Tamura, Hidemasa, to Sony Corporation. Method of producing bismuth titanate fine powders. 4,668,500, 5-26-87, Cl. 423-598.000.
Yamatoo, Hiroshi: See—
Uedaira, Satoru; Yamatoo, Hiroshi; Yamaguchi, Takashi; Suzuki, Masayuki; and Tamura, Hidemasa. 4,677,083, Cl. 423-598.000.
Yamatoo, Kiyoshi: See—
Nakaso, Akishi; Kaneko, Yousuke; Okamura, Toshiro; and Yamatoo, Kiyoshi. 4,643,793, Cl. 156-306.600.
Yamatoo, Toshimi; and Tokugawa, Osamu, to Nissan Motor Co., Ltd.; and NSK-Warner K.K. Seat belt anchoring device. 4,676,556, 6-30-87, Cl. 297-473.000.
Yamatoo, Yoshinori: See—
Tsuchida, Tetsuo; Kawaguchi, Takeshi; Hayashi, Tsutomu; and Yamatoo, Yoshinori. 4,664,233, Cl. 188-181.00A.
Yamauchi, Hiroshi, to Sony Corporation. Loading device for disc cassettes. 4,656,544, 4-7-87, Cl. 360-97.000.
Yamauchi, Kouichi: See—
Scherer, Kirby V., Jr.; Ono, Tazuo; Yamauchi, Kouichi; and Yokoyama, Kazumasa. 4,686,024, Cl. 204-157.940.
Yamauchi Pharmaceutical Co., Inc.: See—
Kagatani, Seiya; Hasumi, Shinji; Sonobe, Takashi; and Aruga, Masayoshi. 4,690,952, Cl. 514-408.000.
Yamauchi Pharmaceutical Co., Ltd.: See—
Imai, Kazuo; Nagata, Kunihiro; Fukuura, Takashi; Hashimoto, Shinichi; and Takemaka, Toichi. 4,703,063, Cl. 514-467.000.
Kawata, Hirotsu; Aruga, Masayoshi; Ohmura, Tadayoshi; Sonobe, Takashi; Yoneya, Satoru; and Sono, Chiharu. 4,671,564, Cl. 424-464.000.
Kojima, Tadao; Kageyama, Shunji; Okada, Minoru; Obata, Isao; and Sato, Noboru. 4,690,932, Cl. 514-337.000.
Konno, Yutaka; Kawata, Hirotsu; Aruga, Masayoshi; Sonobe, Takashi; and Mitomi, Mitsuo. 4,637,930, Cl. 424-24.000.
Konno, Yutaka; Kawata, Hirotsu; Aruga, Masayoshi; Sonobe, Takashi; and Mitomi, Mitsuo. 4,695,911, Cl. 504-897.000.
Kubo, Kazuo; Isomura, Yasuo; Sakamoto, Shuichi; and Hiromu, Hiroshige. 4,616,516, Cl. 514-365.000.
Muraoka, Kenichi; Setoguchi, Yoichi; Kawase, Tadamasa; Kawata, Hirotsu; Komatsu, Hisamichi; and Uchida, Masato. 4,707,556, Cl. 426-658.000.
Nagano, Yoshinobu, 4,709,013, Cl. 530-322.000.
Ohmori, Takashi; Oka, Yoshihiko; Watanabe, Shunichi; Sato, Takeshi; Gushima, Hiroshi; Murakami, Kensuke; Takahashi, Isao; Yamaguchi, Hiroshi; Sasaki, Toshio; Sasaki, Kiyoshi; Takamura, Shuichi; and Miyoshi, Tsuhaki. 4,656,262, Cl. 540-221.000.
Shibanuma, Tadao; Nagano, Nobuki; Hara, Ryuichiro; Nakano, Kohji; Kudo, Akio; Yamazaki, Atsuo; and Murakami, Yukiyasu. 4,690,921, Cl. 514-205.000.
Tamura, Toshikazu; Iwamoto, Hidenori; Yoshida, Makoto; and Yamamoto, Minoru. 4,636,567, Cl. 548-336.000.
Yamauchi Pharmaceutical Co., Ltd.: See—
Shibanuma, Tadao; Nakano, Kohji; Nagano, Nobuki; Murakami, Yukiyasu; Hara, Ryuichiro; Kudo, Akio; and Yamazaki, Atsuo. 4,699,980, Cl. 546-224.000.
Yamauchi, Roy K., to National Semiconductor Corporation. Strobe line driver circuit. 4,649,299, 3-10-87, Cl. 307-440.000.
Yamauchi, Roy K.; and Williams, Robert W., to National Semiconductor Corporation. Single device transfer static latch. 4,654,829, 3-31-87, Cl. 365-189.000.
Yamauchi, Shinsuke: See—
Hata, Ryosuke; Yamauchi, Shinsuke; Hirose, Masayuki; Kuwahara, Hideomi; Mitsumiya, Yasuharu; and Hagihara, Yasuhiro. 4,673,967, Cl. 428-172.000.
Hata, Ryosuke; Yamauchi, Shinsuke; Hirose, Masayuki; Yoshii, Toshiya; Tsunashima, Kenji; and Horiuchi, Satoshi. 4,675,470, Cl. 174-25.00R.
Yamauchi, Shoji: See—
Otaki, Yukimori; and Yamauchi, Shoji. 4,658,654, Cl. 73/861.090.
Yamao, Mutsunori: See—
Eichigi, Yoshiaki; Yamao, Mutsunori; Suemaru, Yoshiyuki; Ishikura, Tadashi; Akami, Kenichi; and Snider, Ronald. 4,640,977, Cl. 528-129.000.
Yamaoka, Akira; Wada, Kenichi; and Kuriyama, Katsuhiro, to Hitachi, Ltd. Coded decimal non-restoring divider. 4,692,891, 9-8-87, Cl. 364-763.000.
Yamaoka, Hideyoshi: See—
Fujii, Yoshikazu; Deguchi, Toshihisa; Inui, Tetsuya; and Yamaoka, Hideyoshi. 4,660,194, Cl. 369-44.000.
Fujii, Yoshikazu; Inui, Tetsuya; Deguchi, Toshihisa; and Yamaoka, Hideyoshi. 4,674,390, Cl. 369-47.000.
Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi. 4,634,417, Cl. 434-65.000.
Ohta, Kenji; Takahashi, Akira; Inui, Tetsuya; Hyuga, Takao; and Yamaoka, Hideyoshi. 4,658,393, Cl. 369-240.000.
Yamaoka, Hirokazu; Okamoto, Tadashi; Iwata, Yasuhiro; and Kimura, Kouichi, to Hitachi, Ltd. Bit processing utilizing a row and column ladder sequence. 4,688,195, 8-18-87, Cl. 364-900.000.
Yamaoka, Hirokazu: See—
Okamoto, Tadashi; Shimoyama, Kazuhiko; Yamaoka, Hirokazu; and Takasuka, Minoru. 4,694,419, Cl. 364-900.000.
Yamaoka, Hiroshi: See—
Miki, Noboyuki; Yamaoka, Hiroshi; and Tanaka, Yoichi. 4,712,047, Cl. 318-22.05D.
Yamaoka Industry Corporation: See—
Nishikawa, Eikichi. 4,648,374, Cl. 126-21.00A.
Yamaoka, Isao: See—
Maeda, Hiromoto; Kitahara, Seisohichi; Yoshimura, Haruo; Tomiwaki, Takao; Yangisi, Takao; and Yamaoka, Isao. 4,677,934, Cl. 118-58.000.
Yamaoka, Kojiro; Azuma, Toshiro; Sasakawa, Shigeyuki; Shibata, Jiro; and Odagaki, Atsushi, to Kanzaki Kokyukoki Mfg. Co. Ltd. Hydraulic steering system. 4,694,230, 9-15-87, Cl. 180-132.000.
Yamaoka, Kojiro; and Okada, Hideaki, to Kanzaki Kokyukoki Mfg. Co., Ltd. Transmission for self-propelled working vehicles. 4,671,143, 6-16-87, Cl. 180-336.000.
Yamaoka, Kojiro; Yano, Kazuhiko; and Ohnuki, Kazuhiko, to Kanzaki Kokyukoki Mfg. Co., Ltd. Marine reversing clutch assembly. 4,679,673, 7-14-87, Cl. 192-21.000.
Yamaoka, Masami; Tsuruki, Yukio; and Toyoshima, Shoji, to Nippondenso Co., Ltd. Semiconductor circuit device including an overvoltage protection element. 4,672,402, 6-9-87, Cl. 357-13.000.

Yamaoka, Masami: *see*—
Tsuzuki, Yukio; Yamaoka, Masami; and Toyoshima, Shoji. 4,680,608, Cl. 357-36.000.

Yamaoka, Noboru; Yokoyama, Shigeki; Matsuura, Kazuo; Misumi, Kozo; Watanabe, Junichi; and Kadomatsu, Seiji, to Nippon Oil Company, Limited; and Osaka Soda Company, Limited. Chlorinated linear ultra low density polyethylene. 4,704,439, 11-3-87, Cl. 525-334.100.

Yamaoka, Shigemitsu, to Nippon Gakki Seizo Kabushiki Kaisha. Digital color encoder. 4,686,520, 8-11-87, Cl. 340-703.000.

Yamaoka, Shigemitsu: *See*—
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,635,048, Cl. 340-703.000.
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,660,070, Cl. 358-11.000.
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,684,942, Cl. 340-703.000.

Yamasa Shoyu Kabushiki Kaisha: *See*—
Morozumi, Manami; and Sakata, Shinji, 4,668,778, Cl. 536-27.000.

Yamasaki, Harumasa; Kobayashi, Takatoshi; Ito, Osamu; Sakurai, Akira; and Sumida, Yuzo, to Kao Corporation. Absorptive material. 4,666,975, 5-19-87, Cl. 524-733.000.

Yamasaki, Harumasa; Morii, Masayoshi; Yokota, Yukinaga; Mamada, Akira; and Nabata, Yoshiyuki, to Kao Corporation. Catalyst for preparation of polyurethane and process for the preparation. 4,714,719, 12-22-87, Cl. 521-162.000.

Yamasaki, Hidenori: *See*—
Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, 4,677,036, Cl. 428-694.000.
Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, 4,702,794, Cl. 156-643.000.

Yamasaki, Hiroshi, to Tokyo Shibaura Denki Kabushiki Kaisha. Apparatus for a record player distinguishing between recorded and unrecorded portions of a disc. 4,707,815, 11-17-87, Cl. 369-33.000.

Yamasaki, Katsuhisa, to Topura Co., Ltd. Dies for forming drilling screws. 4,677,703, 7-7-87, Cl. 10-9.000.

Yamasaki, Kenichi: *See*—
Harada, Yoshiaki; Okino, Teizou; Mathura, Hiroyuki; Doi, Yasuhumi; and Yamasaki, Kenichi, 4,654,149, Cl. 210-763.000.
Harada, Yoshiaki; Nakashiba, Akio; Matuura, Hiroyuki; Okino, Teizou; Fujitani, Hajime; Yamasaki, Kenichi; Doi, Yasuhumi; and Yurugi, Shigenobu, 4,699,720, Cl. 210-762.000.

Yamasaki, Kimihito; and Yoshiura, Shoichiro, to Sharp Kabushiki Kaisha. Sorter for electrophotographic copying machine. 4,696,466, 9-29-87, Cl. 271-288.000.

Yamasaki, Kimiyoshi: *See*—
Enoki, Takatomo; Yamasaki, Kimiyoshi; and Ohwada, Kuniki, 4,694,564, Cl. 437-40.000.

Yamasaki, Koji: *See*—
Kimura, Katsuji; Kasai, Yoshihiko; Yokoyama, Yukio; Yamasaki, Koji; and Sato, Toshifumi, 4,680,553, Cl. 330-2.000.

Yamasaki, Kojiro. Metal mould and venthole arrangement thereof. 4,638,848, 1-27-87, Cl. 164-305.000.

Yamasaki, Masakuni: *See*—
Tsukamoto, Hidehiko; Kohmoto, Eiji; Asada, Koichi, deceased; Yamasaki, Masakuni; Matsumoto, Kenichi; Nakazono, Eiji; Wakamiya, Yoshinori; and Kuramoto, Satoru, 4,672,830, Cl. 72-8.000.

Yamasaki, Nakamichi; Kubota, Takeshi; Hoshino, Yoshihiro; and Tanuma, Hiroyuki, to Mitsui Engineering & Shipbuilding Co., Ltd. Method for fixation of incinerator ash or iodine sorbent. 4,661,291, 4-28-87, Cl. 252-629.000.

Yamasaki, Seiji, to Fanuc Ltd. Nozzle touch mechanism. 4,676,730, 6-30-87, Cl. 425-569.000.

Yamasaki, Shinsuke; and Izumimori, Hajime. Copper alloy for a radiator fin. 4,704,253, 11-3-87, Cl. 420-499.000.

Yamasaki, Takeo: *See*—
Fureta, Yohichi; Yamasaki, Takeo; Tachino, Tomio; and Tanikawa, Masayoshi, 4,643,043, Cl. 74-503.000.

Yamasaki, Taro: *See*—
Fukamizu, Hiroshi; Nakano, Masaji; Iba, Kunio; Yamasaki, Taro; and Sano, Kenji, 4,690,553, Cl. 356-51.000.

Yamasaki, Tetsuya; and Okuda, Eiji, to Nippon Sheet Glass Co., Ltd. Optical branching device with internal waveguide. 4,693,544, 9-15-87, Cl. 350-96.160.

Yamasaki, Tetsuya: *See*—
Yamamoto, Noboru; and Yamasaki, Tetsuya, 4,637,681, Cl. 350-96.120.

Yamasaki, Toshio: *See*—
Beny, Janos; and Yamasaki, Toshio, 4,685,894, Cl. 446-435.000.

Yamasaki, Yasuo: *See*—
Sumitani, Koji; Sakai, Tokuji; Yamasaki, Yasuo; and Onodera, Tamio, 4,695,667, Cl. 585-481.000.

Yamasaki, Yoshikiyo, to Kabushiki Kaisha Fuji Iryoki. Reclining and swingable chair. 4,699,422, 10-13-87, Cl. 297-18.000.

Yamashina, Naotoshi; and Yabuta, Fumihiko, to Sanyo-Kokusaku Pulp Co., Ltd. Process for the production of laminated sheet. 4,652,324, 3-24-87, Cl. 156-242.000.

Yamashina, Shuichi: *See*—
Sasaki, Shin; Nemoto, Tsuneo; Yamashina, Shuichi; and Uchida, Hiroyuki, 4,646,189, Cl. 360-12.000.

Yamashiro, Hiroshi; and Suzuki, Ko. Method for making a dunnage shock absorber. 4,714,506, 12-22-87, Cl. 156-80.000.

Yamashiro, Seiichi: *See*—
Matsubayashi, Tooru; and Yamashiro, Seiichi, 4,659,534, Cl. 264-566.000.

Yamashiro, Yoshihiro: *See*—
Tomita, Yukio; Wakabayashi, Takayuki; Matsuda, Mitsunobu; Shibamoto, Nobuji; and Yamashiro, Yoshihiro, 4,645,065, Cl. 198-573.000.

Yamashita, Akihiko; Ikegami, Masahiko; and Hatanaka, Kaoru, to Honda Giken Kogyo Kabushiki Kaisha. Electric component for motor vehicles. 4,709,123, 11-24-87, Cl. 174-52.00R.

Yamashita, Akinori; Hataoka, Kenji; Hashimoto, Noboru; and Misumi, Masanori, to Mazda Motor Corporation. Fuel injection system for internal combustion engine. 4,658,792, 4-21-87, Cl. 123-478.000.

Yamashita, Akinori: *See*—
Fukube, Tsugio; Yamashita, Akinori; Hashimoto, Noboru; and Yamamoto, Hiroyuki, 4,656,988, Cl. 123-489.000.
Oda, Hiroyuki; Nagao, Akihito; Misumi, Masanori; Yamashita, Akinori; and Okazaki, Katsumi, 4,714,063, Cl. 123-308.000.

Yamashita, Akio: *See*—
Tsuchiya, Sohji; Fujikawa, Wataru; Kojima, Toshikami; Higuchi, Sadashi; and Yamashita, Akio, 4,660,939, Cl. 350-357.000.

Yamashita, Akira: *See*—
Nozoe, Toshiro; and Yamashita, Akira, 4,638,358, Cl. 358-147.000.
Nozoe, Toshiro; Yamashita, Akira; Hirashima, Masayoshi; and Fukuda, Shin, 4,667,235, Cl. 358-147.000.
Orita, Keiichi; and Yamashita, Akira, 4,654,051, Cl. 51-298.000.

Yamashita, Akiya: *See*—
Kasai, Tatsushi; Niikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,689,146, Cl. 210-197.000.
Kasai, Tatsushi; Niikura, Tatsuo; Sato, Masanori; Hashimoto, Takao; and Yamashita, Akiya, 4,710,215, Cl. 62-532.000.

Yamashita, Fumitoshi; Wada, Masami; and Kitayama, Shuichi, to Matsushita Electric Industrial Co., Ltd. Resin-bonded magnet comprising a specific type of ferromagnetic powder dispersed in a specific type of resin binder. 4,689,163, 8-25-87, Cl. 252-62.540.

Yamashita, Gentaro: *See*—
Suzuki, Yoshiki; Ikura, Hiroshi; Yamashita, Gentaro; and Nagai, Tsuneji, 4,715,369, Cl. 128-156.000.

Yamashita, Haruyuki: *See*—
Endo, Akira; and Yamashita, Haruyuki, 4,701,448, Cl. 514-121.000.

Yamashita, Hiromitsu: *See*—
Takano, Hajime; and Yamashita, Hiromitsu, 4,684,973, Cl. 357-68.000.

Yamashita, Hiroshi; Fuji, Kanenaga; Hayakawa, Junji; Komiyama, Toru; and Tamaru, Sinji, to Director-General of Agency of Industrial Science & Technology; and Diakin Kogyo Co., Ltd. Branch structures for rod-type optical transmission lines. 4,673,243, 6-16-87, Cl. 350-96.150.

Yamashita, Hiroshi: *See*—
Nishida, Fumihiko; Shimizu, Yasumasa; Yoshida, Tomohiro; Urata, Makoto; Hotta, Tomiji; Mizuta, Masaji; and Yamashita, Hiroshi, 4,679,930, Cl. 355-52.000.
Sumi, Naoki; Yamashita, Hiroshi; and Sekizuka, Yasuo, 4,649,052, Cl. 426-49.000.

Yamashita, Ichiro; Wakamiya, Masayuki; Hase, Hiroyuki; and Tokuono, Shinya, to Matsushita Electric Industrial Co., Ltd. Fluid pressure sensor. 4,696,192, 9-29-87, Cl. 73-728.000.

Yamashita Iron Works, Ltd.: *See*—
Noro, Shingo; Saitou, Kunio; and Izumimoto, Hideki, 4,661,325, Cl. 422-304.000.

Yamashita, Junichi: *See*—
Mochida, Takaaki; Yamashita, Junichi; Yoshioka, Toshiro; and Ozawa, Michihiro, 4,683,113, Cl. 376-419.000.

Yamashita, Katsuji: *See*—
Yamane, Takehiko; Hashizume, Takuji; Yamashita, Katsuji; and Watanabe, Kiyoshi, 4,690,919, Cl. 514-183.000.

Yamashita, Kazuhisa; Shibata, Yoshio; and Komukai, Shigemi, to Tokico Ltd. Fuel supplying apparatus. 4,660,153, 4-21-87, Cl. 364-513.500.

Yamashita, Kazunari: *See*—
Suzuki, Norio; Watabe, Akira; and Yamashita, Kazunari, 4,677,959, Cl. 123-587.000.

Yamashita, Kazuya: *See*—
Watanabe, Yoshimi; and Yamashita, Kazuya, 4,684,351, Cl. 440-89.000.

Yamashita, Keiichi: *See*—
Kawamura, Hideo; Yoshida, Yukio; and Yamashita, Keiichi, 4,684,341, Cl. 431-242.000.
Kawamura, Hideo; Yoshida, Yukio; and Yamashita, Keiichi, 4,703,888, Cl. 237-2.00A.

Yamashita, Keitaro, to Hitachi Metals, Ltd. Directly heating fixing apparatus having current collecting bearings. 4,714,819, 12-22-87, Cl. 219-216.000.

Yamashita, Keitaro: *See*—
Fukae, Kensuke; and Yamashita, Keitaro, 4,639,116, Cl. 355-3.0DD.
Goto, Ryuji; Kashiwagi, Hiromi; and Yamashita, Keitaro, 4,660,505, Cl. 118-689.000.

Yamashita, Kenkichi: *See*—
Kuwabara, Hiroshi; Ide, Jushi; Kamata, Yasuji; and Yamashita, Kenkichi, 4,638,308, Cl. 340-736.000.

Yamashita, Kimihiro: *See*—
Bell, Michael F.; Nicholson, Patrick S.; Sayer, Michael; and Yamashita, Kimihiro, 4,689,126, Cl. 204-130.000.
Nicholson, Patrick S.; and Yamashita, Kimihiro, 4,657,879, Cl. 501-152.000.

Yamashita, Kiyoshi; Aoshima, Terutaka; Narita, Ryuuho; and Imai, Masahiro, to Kabushiki Kaisha Toshiba. Electric rice cooker with

timer having plural memory areas. 4,695,710, 9-22-87, Cl. 219-506.000.
Yamashita, Kiyoshi, to Kabushiki Kaisha Toshiba. Automatic chemical analyzer. 4,699,766, 10-13-87, Cl. 422-64.000.
Yamashita, Kiyoshi: *See*—
Takahashi, Shizuo; and Yamashita, Kiyoshi, 4,640,083, Cl. 53-551.000.
Yamashita, Koji: *See*—
Bessho, Yoshihiko; Yamashita, Koji; and Katayama, Masanori, 4,669,865, Cl. 355-30.000.
Yamashita, Makoto: *See*—
Wada, Yasuto; Ishiyama, Yoshihiko; and Yamashita, Makoto, 4,692,000, Cl. 350-637.000.
Yamashita, Masaaki: *See*—
Hara, Tomihiro; Adaniya, Takeshi; Yamashita, Masaaki; and Enatsu, Akira, 4,659,394, Cl. 148-6.200.
Yamashita, Masahiro: *See*—
Sakano, Kenji; Aketa, Masahiro; Ikeshima, Tetsuro; Hataura, Kiyoshi; Sakanaka, Hiroo; and Yamashita, Masahiro, 4,703,729, Cl. 123-308.000.
Yamashita, Masanobu; Takada, Hiroshi; Inoue, Takemi; and Yamauchi, Suguru, to Kawasaki Jukogyo Kabushiki Kaisha. Automatic compression releasing device for four-cycle engine. 4,651,687, 3-24-87, Cl. 123-182.000.
Yamashita, Masataka: *See*—
Matsumoto, Masakazu; and Yamashita, Masataka, 4,666,809, Cl. 430-76.000.
Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; Umehara, Shoji; and Ishikawa, Shozo, 4,702,982, Cl. 430-72.000.
Umehara, Shoji; Matsumoto, Masakazu; Takiguchi, Takao; Yamashita, Masataka; and Ishikawa, Shozo, 4,666,810, Cl. 430-71.000.
Yamashita, Masatoshi; and Tsunoda, Norio, to Fuji Jukogyo Kabushiki Kaisha. Hit indicating system in towed target for aerial firing practice. 4,695,059, 9-22-87, Cl. 273-360.000.
Yamashita, Michio: *See*—
Kohsaka, Masanobu; Terano, Hiroshi; Komori, Tadaaki; Iwami, Morita; Yamashita, Michio; Hashimoto, Masashi; Uchida, Itsuo; and Takase, Shigehiro, 4,645,765, Cl. 514-233.000.
Yamashita, Mitsuo; Tomimori, Kiyoshi; and Egawa, Jiro, to Kabushiki Kaisha Toshiba. Recording apparatus. 4,669,717, 6-2-87, Cl. 271.186.000.
Yamashita, Mitsuo, and Koda, Akinori, to Denki Kagaku Kogyo Kabushiki Kaisha. Furnace wall construction for industrial use. 4,698,948, 10-13-87, Cl. 52-410.000.
Yamashita, Naoki: *See*—
Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, 4,638,710, Cl. 84-1.260.
Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, 4,683,795, Cl. 84-1.260.
Kitamura, Masatsugu; Wagatsuma, Kikuji; Watanabe, Tokumi; Yamashita, Naoki; and Yoshida, Hiroshi, 4,701,872, Cl. 364-718.000.
Yamashita, Nobuo; and Takahashi, Susumu, to Olympus Optical Co., Ltd. Field view direction changing optical system. 4,684,224, 8-4-87, Cl. 350-445.000.
Yamashita, Nobuyuki; Tahara, Kazuo; Watanabe, Masatoshi; and Takahashi, Noriyoshi, to Hitachi, Ltd. Sliding current collector. 4,657,818, 4-14-87, Cl. 428-446.000.
Yamashita, Norihisa: *See*—
Uematsu, Tamon; Inoue, Satoru; and Yamashita, Norihisa, 4,670,451, Cl. 514-375.000.
Yamashita, Noriyuki, to Sony Corporation. Second order all pass network. 4,675,616, 6-23-87, Cl. 330-84.000.
Yamashita, Noriyuki: *See*—
Fukuda, Tokuya; Ishizuka, Shigeki; and Yamashita, Noriyuki, 4,689,580, Cl. 330-306.000.
Yamashita, Ryozo: *See*—
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,635,048, Cl. 340-703.000.
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi, 4,660,070, Cl. 358-11.000.
Nishi, Kazuhiko; Ishii, Takatoshi; Yamashita, Ryozo; Yamaoka, Shigemitsu; and Okumura, Takatoshi 4,684,942, Cl. 340-703.000.
Yamashita, Sachihiro: *See*—
Enomoto, Masayuki; Ishibashi, Ichiro; Yamashita, Sachihiro; Ichinose, Kiyohiro; and Kano, Toshiharu, 4,667,386, Cl. 29-157.00R.
Yamashita, Sadahiko; Hasegawa, Makoto; Ohba, Motoi; Kikuchi, Koh; and Shishido, Tsutomu, to Matsushita Electric Industrial Co. Ltd. Double superheterodyne tuner. 4,661,998, 4-28-87, Cl. 455-315.000.
Yamashita, Sadahiko: *See*—
Hasegawa, Makoto; and Yamashita, Sadahiko, 4,651,344, Cl. 455-325.000.
Sagawa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, 4,638,180, Cl. 307-219.100.
Sagawa, Morikazu; Mori, Yoshikazu; Ohba, Motoi; Makimoto, Mitsuo; and Yamashita, Sadahiko, 4,679,003, Cl. 331-1.00A.
Yamashita, Sadao: *See*—
Ishikawa, Youhei; Yorita, Tadahiro; and Yamashita, Sadao, 4,636,759, Cl. 333-223.000.
Yamashita, Satoshi: *See*—
Yamazaki, Yoshihide; Uchimura, Kazumi; Yamashita, Satoshi; and Takeuchi, Mikio, 4,695,614, Cl. 526-142.000.
Yamashita, Seiji; and Yokogawa, Tsukichi. Process for producing blood powder. 4,666,725, 5-19-87, Cl. 426-465.000.
Yamashita, Seizi: *See*—
Kanazawa, Hiroshi; Yamashita, Seizi; and Miyashita, Kunio, 4,678,971, Cl. 318-135.000.
Yamashita, Setsuo: *See*—
Makimura, Masaru; and Yamashita, Setsuo, 4,663,221, Cl. 428-224.000.
Yamashita, Shigeki: *See*—
Momo, Tetsuro; and Yamashita, Shigeki, 4,694,303, Cl. 346-1.100.
Yamashita, Shinichi: *See*—
Kanno, Hideo; Yamashita, Shinichi; Enari, Masahiko; Kuno, Mitsutoshi; and Mizutome, Atsushi, 4,714,921, Cl. 340-784.000.
Yamashita, Shinzo: *See*—
Kohjiya, Shinzo; Yamashita, Shinzo; Irie, Masahiro; Osawa, Yoshitaka; and Uemiya, Takafumi, 4,656,245, Cl. 528-405.000.
Yamashita, Shuji: *See*—
Inuzuka, Shozin; and Yamashita, Shuji, 4,704,894, Cl. 73-35.000.
Yamashita, Susumu: *See*—
Nagata, Masanori; Yoshida, Shinya; and Yamashita, Susumu, 4,677,657, Cl. 379-63.000.
Yamashita, Tadaoki: *See*—
Baba, Sueki; Yamamoto, Osamu; Yamashita, Tadaoki; and Tsutsui, Hiroshi, 4,651,005, Cl. 250-360.100.
Yamashita, Takashi: *See*—
Okubo, Kunio; and Yamashita, Takashi, 4,685,657, Cl. 266-234.000.
Yamashita, Takeo: *See*—
Kumasaka, Noriyuki; Funwara, Hideo; Otomo, Shigekazu; Yamashita, Takeo; Takayama, Shinji; Saito, Noritoshi; and Kudo, Mitsuhiro, 4,656,547, Cl. 360-126.000.
Yamashita, Tatsumaro, to Alps Electric Co., Ltd. Direct drive motor having adjustable bearing for spindle. 4,649,306, 3-10-87, Cl. 310-90.000.
Yamashita, Tatsumaro, to Alps Electric Co., Ltd. Head height adjustment construction in magnetic recording and reproducing apparatus with rotary cylinder. 4,709,287, 11-24-87, Cl. 360-109.000.
Yamashita, Tatsumaro: *See*—
Nishioka, Toru; and Yamashita, Tatsumaro, 4,669,002, Cl. 360-64.000.
Yamashita, Tatsuo; Terada, Masafumi; and Suzuki, Koji, to Fujisawa Pharmaceutical Co., Ltd. Monoclonal anti-protein C antibody, its preparation and use thereof. 4,696,895, 9-29-87, Cl. 435-7.000.
Yamashita, Toshihiko, to Uniqey International Ltd. Door lock. 4,649,725, 3-17-87, Cl. 70-472.000.
Yamashita, Toshihiko, to Uniqey (Hong Kong) Limited. Electrical power source. 4,712,171, 12-8-87, Cl. 363-142.000.
Yamashita, Toshiyuki: *See*—
Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Shinji; Kinoshita, Kimiaki; Saito, Morikuni; Yamashita, Toshiyuki; and Nanbu, Morio, 4,695,640, Cl. 549-226.000.
Yamashita, Tsukasa: *See*—
Mikami, Kazuo; Yamashita, Tsukasa; and Katoh, Mitsutaka, 4,712,854, Cl. 350-96.120.
Yamashita, Yasuhiko: *See*—
Maruoka, Kuniaki; Takahashi, Nobuyuki; Fujimura, Senkichi; Yamashita, Yasuhiko; Otsuka, Setsuo; Oohasi, Isao; and Motoyama, Takeo, 4,698,102, Cl. 148-2.000.
Yamashita, Yasuhiro: *See*—
Mori, Takashi; Ohi, Nobuhiro; Ohsugi, Yoshiyuki; and Yamashita, Yasuhiro, 4,691,018, Cl. 546-309.000.
Yamashita, Yukinori: *See*—
Iwata, Kouichi; and Yamashita, Yukinori, 4,659,444, Cl. 204-180.900.
Yamashita, Yukio, to Kyocera Corporation. Mount for quartz crystal oscillator device. 4,642,510, 2-10-87, Cl. 310-348.000.
Yamashita, Yutaka: *See*—
Kamata, Mitsuo; and Yamashita, Yutaka, 4,712,446, Cl. 74-492.000.
Yamataka, Kazunori: *See*—
Matsuoka, Yuuji; Yamataka, Kazunori; and Shimizu, Atsushi, 4,666,570, Cl. 204-59.00R.
Yamatake-Honeywell Co., Ltd.: *See*—
Ando, Sadao; and Saito, Satoshi, 4,667,066, Cl. 200-1.00A.
Doki, Yoshikuni; Fujiwara, Masatoshi; Shiga, Tatsuhide; Shono, Yohsuke; Tanaka, Mikio; and Tsuruoka, Yoshihiro, 4,649,359, Cl. 335-222.000.
Fujiwara, Masatoshi; and Kuroda, Masato, 4,675,567, Cl. 310-317.000.
Fujiwara, Masatoshi; Kuroda, Masato; and Shiga, Tatsuhide, 4,712,173, Cl. 364-138.000.
Nishimoto, Ikuo; Kamiunten, Shoji; and Kuroiwa, Takaaki, 4,677,416, Cl. 338-35.000.
Sadao, Ando; and Satoshi, Saito, 4,705,241, Cl. 248-27.300.
Sugino, Yoshihide; Shiote, Yoshinori; and Yamaki, Kazuyoshi, 4,661,037, Cl. 414-729.000.
Tanaka, Minoru, 4,634,046, Cl. 236-46.00F.
Yamatani, Akira: *See*—
Fujihara, Takeo; Yamatani, Akira; Yamamoto, Masanori; and Kunimoto, Yuji, 4,705,209, Cl. 229-109.000.
Yamatani, Yasunori: *See*—
Nishino, Tetsuo; Okamura, Hiroko; and Yamatani, Yasunori, 4,672,662, Cl. 379-277.000.
Yamato, Akihiro, to Honda Giken Kogyo Kabushiki Kaisha. Method for controlling the fuel supply of an internal combustion engine. 4,643,152, 2-17-87, Cl. 123-480.000.
Yamato, Akihiro, to Honda Giken Kogyo Kabushiki Kaisha. Method for controlling the fuel supply of an internal combustion engine. 4,671,241, 6-9-87, Cl. 123-478.000.

Yamato, Akihiro; Koike, Yuzuru; and Futa, Kyozo, to Honda Giken Kogyo Kabushiki Kaisha. Idling speed feedback control method for internal combustion engines. 4,681,075, 7-21-87, Cl. 123-339.000.

Yamato, Akihiro; and Nishikawa, Takafumi, to Honda Giken Kogyo Kabushiki Kaisha. Method of correcting air-fuel ratio for atmospheric pressure in internal combustion engines. 4,708,115, 11-24-87, Cl. 123-494.000.

Yamato Denki Co., Ltd.: *See*—
Kubota, Teruo; and Tasaki, Takashi, 4,673,232, Cl. 439-441.000.

Yamato, Hajime: *See*—
Hamano, Koichi; Yamato, Hajime; and Karasawa, Hideo, 4,661,908, Cl. 364-405.000.

Yamato Iron Works Co., Ltd.: *See*—
Mineo, Masanari; and Mineo, Kinji, 4,677,730, Cl. 29-512.000.

Yamato, Koji: *See*—
Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, 4,650,724, Cl. 428-659.000.
Umino, Shigeru; Yamato, Koji; Kimura, Hajime; and Ichida, Toshio, 4,702,802, Cl. 204-28.000.

Yamato, Lance M.: *See*—
Reinicke, Robert H.; and Yamato, Lance M., 4,715,852, Cl. 604-131.000.

Yamato, Masatoshi, to Meet Corporation. Tropolone derivatives, processes for the preparation thereof and the use thereof as anti-tumor agents. 4,656,192, 4-7-87, Cl. 514-564.000.

Yamato, Masatoshi: *See*—
Fukui, Yoshio; Yamato, Masatoshi; Umeda, Naoki; and Kawasaki, Masahiro, 4,647,412, Cl. 260-410.6/00.

Yamato, Masayuki; Kase, Hiroshi; Kawamoto, Isao; Kasai, Masaji; Shirahata, Kunikatsu; Deguchi, Tarashi; Shuto, Katsuichi; Karasawa, Akira; Okachi, Ryo; and Nakayama, Kiyoshi, to Kyowa Hakko Kogyo Co., Ltd. Novel physiologically active substance K-26, a process for preparation thereof and a pharmaceutical composition containing the same. 4,683,220, 7-28-87, Cl. 514-7.000.

Yamato Mishin Seizo Kabushiki Kaisha: *See*—
Matsumoto, Takeshi, 4,683,828, Cl. 112-294.000.

Yamato Sanko Mfg. Co., Ltd.: *See*—
Yamato, Yukio, 4,656,759, Cl. 34-134.000.

Yamato Scale Company, Limited: *See*—
Hirano, Takashi; and Taguchi, Michio, 4,703,815, Cl. 177-25.000.
Inoue, Shinichi; Kishida, Hiroshi; and Oshima, Yasushi, 4,662,508, Cl. 198-601.000.
Kinoshita, Kinjiro, 4,635,831, Cl. 222-504.000.
Kohashi, Toru; and Adachi, Motoyuki, 4,709,770, Cl. 177-50.000.
Yamano, Shoji, 4,660,661, Cl. 177-25.000.
Yamano, Shoji; and Miyamoto, Isao, 4,676,325, Cl. 177-1.000.
Yamano, Shoji; and Miyamoto, Isao, 4,706,766, Cl. 177-1.000.
Yamano, Shoji; and Miyamoto, Isao, 4,709,769, Cl. 177-1.000.

Yamato Scientific Co., Ltd.: *See*—
Yoshida, Naoki; and Kobayashi, Nobutoshi, 4,692,598, Cl. 219-497.000.

Yamato System Engineer Co., Ltd.: *See*—
Sakamoto, Takao, 4,676,301, Cl. 165-95.000.

Yamato, Yukio, to Yamato Sanko Mfg. Co., Ltd. Aeration-type rotary dryer. 4,656,759, 4-14-87, Cl. 34-134.000.

Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Watanabe, Hideaki; Igarashi, Toshiji; Shiojiri, Hiroyuki; Tanabe, Yoshio; and Hara, Kumiko, to Eisai Co., Ltd. Polyprenylcarboxylic acid morpholides and pharmaceutical compositions. 4,639,450, 1-27-87, Cl. 514-238.000.

Yamatsu, Isao; Inai, Yuichi; Abe, Shinya; Suzuki, Takeshi; Suzuki, Yoshikazu; Tagaya, Osamu; Suzuki, Kouichi; Abe, Kouichi; and Yamada, Kouji, to Eisai Co., Ltd. Conjugated polyprenylcarboxylic acids and their derivatives. 4,655,973, 4-7-87, Cl. 260-404.000.

Yamatsu, Isao; Abe, Shinya; Inai, Yuichi; Suzuki, Takeshi; Kinoshita, Kensaku; Mishima, Mannen; Katoh, Yoshinori; Kobayashi, Seiichi; Murakami, Manabu; and Yamada, Kouzi, to Eisai Co., Ltd. Polyprenyl compounds, process for the production thereof and medicines containing same. 4,709,079, 11-24-87, Cl. 560-66.000.

Yamatsu, Kiyomi: *See*—
Harigaya, Yasuji; Ogura, Hiroo; Mihara, Mitsuo; Yamanaka, Motosuke; and Yamatsu, Kiyomi, 4,661,630, Cl. 562-455.000.
Yoshino, Hiroshi; Tsuchiya, Yutaka; Kaneko, Takeru; Nakazawa, Takahiro; Ikeda, Masuhiro; Araki, Shin; Yamatsu, Kiyomi; Tachibana, Shinro; and Arakawa, Yoshihiro, 4,707,468, Cl. 514-16.000.

Yamatsuta, Sadao; and Mitoshi, Fukumoto, to Matsuzawa Seiki Kabushikikaisha. Indentation hardness meter. 4,653,106, 3-24-87, Cl. 382-8.000.

Yamauchi, Akira: *See*—
Kono, Masao; Komeno, Taichitro; Ishihara, Shoichi; Yamauchi, Akira; and Okabayashi, Tadashi, 4,686,179, Cl. 435-7.000.

Yamauchi, Fumio; Tohara, Tsutomu; Nakano, Shigeo; and Emoto, Shigeo, to Nippon Electric Co., Ltd. Vibration damping material. 4,690,960, 9-1-87, Cl. 523-442.000.

Yamauchi, Fumio: *See*—
Matsukura, Hiroyuki; and Yamauchi, Fumio, 4,636,101, Cl. 400-690.000.

Yamauchi, Hidetoshi: *See*—
Enomoto, Ryo; Yamauchi, Hidetoshi; and Tanikawa, Shoji, 4,664,946, Cl. 427-126.200.

Yamauchi, Hirofumi: *See*—
Nakamura, Saburo; Matsuoka, Tsutomu; Yamauchi, Hirofumi; and Sahara, Masanori, 4,640,252, Cl. 123-446.000.
Nishida, Takumi; Nomoto, Yosihtaka; Sahara, Masanori; and Yamauchi, Hirofumi, 4,669,429, Cl. 123-179.00L.
Nomoto, Yoshitaka; Yamauchi, Hirofumi; Sakurai, Shigeru; Okubo, Kenji; Kurita, Hideaki; and Yagi, Kunihiro, 4,665,690, Cl. 60-286.000.

Yamauchi, Hiroki: *See*—
Takagi, Masayoshi; Hoshino, Yukio; and Yamauchi, Hiroki, 4,713,876, Cl. 29-568.000.

Yamauchi, Hiroshi: *See*—
Saito, Isao; Nomoto, Seiichiro; Kamiya, Takashi; Yamauchi, Hiroshi; Sugiyama, Isao; Machida, Yoshimasa; and Negi, Shigeo, 4,698,336, Cl. 514-202.000.

Yamauchi, Hitoshi: *See*—
Kikuchi, Hiroshi; and Yamauchi, Hitoshi, 4,687,661, Cl. 424-38.000.

Yamauchi, Isamu: *See*—
Sakamoto, Setsu; Nakagawa, Yasuhiro; Yamauchi, Isamu; Zauen, Takashi; Suzuki, Katsumi; Shimamoto, Susumu; and Nakajima, Hideo, 4,675,156, Cl. 420-34.000.

Yamauchi, Junichi: *See*—
Hino, Kenichi; Yamauchi, Junichi; and Nishida, Koji, 4,668,712, Cl. 522-13.000.
Omura, Ikuo; Higaki, Tatsuhiko; and Yamauchi, Junichi, 4,648,844, Cl. 433-217.100.
Omura, Ikuo; Yamauchi, Junichi; Nagase, Yoshinori; and Uemura, Fumiko, 4,650,847, Cl. 526-376.000.

Yamauchi, Junnosuke: *See*—
Maruyama, Hitoshi; Ono, Isao; Kohno, Hiroji; Yamauchi, Junnosuke; and Okaya, Takuji, 4,708,947, Cl. 503-209.000.
Sato, Toshiaki; Yamauchi, Junnosuke; and Okaya, Takuji, 4,638,024, Cl. 524-22.000.
Sato, Toshiaki; Yamauchi, Junnosuke; and Okaya, Takuji, 4,654,294, Cl. 430-281.000.
Sato, Toshiaki; Yamauchi, Junnosuke; and Okaya, Takuji, 4,699,950, Cl. 525-185.000.

Yamauchi, Kazuhiro: *See*—
Ide, Yasuo; Ogushi, Kimio; and Yamauchi, Kazuhiro, 4,646,564, Cl. 73-147.000.

Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, to Sony Corporation. Magnetic thin film. 4,671,828, 6-9-87, Cl. 148-309.000.

Yamauchi, Kazushi; Ogata, Muneyuki; Kobayashi, Tomio; Kubota, Makoto; and Kumura, Tatsuo, to Sony Corporation. Magnetic thin film. 4,683,012, 7-28-87, Cl. 148-301.000.

Yamauchi, Kiyoshi: *See*—
Honma, Toshio; Nishida, Minoru; and Yamauchi, Kiyoshi, 4,707,196, Cl. 148-12.70N.

Yamauchi, Koki: *See*—
Sakurai, Mikio; Nakamura, Shiro; Igarashi, Takao; and Yamauchi, Koki, 4,656,000, Cl. 376-352.000.

Yamauchi, Kouji; and Ueda, Chikai, to Mitsubishi Mining & Cement Co., Ltd. Apparatus for piling Portland cement packages in alignment on platform. 4,701,091, 10-20-87, Cl. 414-70.000.

Yamauchi, Kunio: *See*—
Yoshimura, Yasuo; Yamauchi, Kunio; and Saito, Kenji, 4,638,366, Cl. 358-228.000.

Yamauchi, Masaaki: *See*—
Murata, Hideo; Yamauchi, Masaaki; and Tanaka, Hajime, 4,674,228, Cl. 47-1.100.
Shirai, Shoji; Noda, Fumio; Iidaka, Yoshiaki; Yamauchi, Masaki; and Fukushima, Masakazu, 4,672,261, Cl. 313-414.000.

Yamauchi, Masaru: *See*—
Ono, Yusuke; Ohotoshi, Sachio; and Yamauchi, Masaru, 4,698,240, Cl. 427-58.000.

Yamauchi, Michihide: *See*—
Kishine, Nobuyuki; Imamura, Tetsuya; Yamauchi, Michihide; and Ootani, Tsuyoshi, 4,642,720, Cl. 360-126.000.
Kishine, Nobuyuki; Imamura, Tetsuya; Minami, Hideyuki; and Yamauchi, Michihide, 4,644,431, Cl. 360-122.000.
Kishine, Nobuyuki; Imamura, Tetsuya; Yamauchi, Michihide; and Takeuchi, Takashi, 4,661,402, Cl. 428-323.000.
Kishine, Nobuyuki; Imamura, Tetsuya; and Yamauchi, Michihide, 4,716,078, Cl. 428-336.000.

Yamauchi, Mineo: *See*—
Kutsukake, Masaki; Akada, Masanori; and Yamauchi, Mineo, 4,650,494, Cl. 8-471.000.

Yamauchi, Nobuhiro: *See*—
Yukimoto, Kazuyoshi; Fukura, Kenichi; and Yamauchi, Nobuhiro, 4,695,036, Cl. 254-126.000.

Yamauchi, Noriaki; Ikeou, Shinnei; and Imada, Kunihiko, to Sumitomo Chemical Company, Limited. Aqueous liquid dye composition containing bifunctional reactive dye having both monohalogenotriazinyl and vinyl sulfonyl fiber reactive groups. 4,693,725, 9-15-87, Cl. 8-527.000.

Yamauchi Rubber Industry Co., Ltd.: *See*—
Okumura, Kunio; Fukuyama, Yasuo; and Tanaka, Atsuo, 4,640,808, Cl. 264-46.500.
Watanabe, Atsuo; and Fukumitsu, Mikio, 4,704,776, Cl. 29-132.000.

Yamauchi, Satomi, to Mitsubishi Denki Kabushiki Kaisha. Temperature compensated solenoid in a sewing machine. 4,656,958, 4-14-87, Cl. 112-317.000.

Yamauchi, Satomi, to Mitsubishi Denki Kabushiki Kaisha. Sewing machine control device. 4,660,483, 4-28-87, Cl. 112-317.000.

Yamauchi, Satomi; and Nakamura, Takashi, to Mitsubishi Denki Kabushiki Kaisha. Solenoid drive circuit. 4,704,655, 11-3-87, Cl. 361-159.000.

Yamauchi, Shigekazu: *See*—
Aizawa, Masandou; Yamauchi, Shigekazu; Sekine, Hisao; and Yamamoto, Takeshi, 4,664,218, Cl. 350-339.00F.

Yamauchi, Shigenori: *See*—
Inumaru, Susumu; Yamauchi, Shigenori; Shibue, Kazuhisa; Sano, Hideo; and Ito, Kiyofumi, 4,676,830, Cl. 75-249.000.
Yamauchi, Shigeru: *See*—
Takagi, Shigehide; and Yamauchi, Shigeru, 4,654,314, Cl. 501-82.000.
Yamauchi, Suguru: *See*—
Yamashita, Masanobu; Takada, Hiroshi; Inoue, Takemi; and Yamauchi, Suguru, 4,651,687, Cl. 123-182.000.
Yamauchi, Takao, to Mitsubishi Denki Kabushiki Kaisha. Gas insulated switchgear. 4,688,136, 8-18-87, Cl. 361-120.000.
Yamauchi, Takashi; Hayashi, Shoichiro; and Sasakawa, Atsushi, to Kureha Kagaku Kogyo Kabushiki Kaisha. Process for producing 2,6-naphthalenedicarboxylic acid. 4,681,978, 7-21-87, Cl. 562-413.000.
Yamauchi, Takashi: *See*—
Hiramatsu, Kenichi, Nozawa, Hidebumi; and Yamauchi, Takashi, 4,687,536, Cl. 156-556.000.
Iizuka, Akira; Konai, Yutaka; Yamauchi, Takashi; and Hayashi, Shoichiro, 4,638,087, Cl. 562-467.000.
Yamauchi, Takayoshi; Hattori, Kaneaki; Ikeda, Shunichi; Nakao, Kenji; and Tamaki, Kentaro, to Kyowa Hakko Kogyo Co. Ltd. Process for producing an α-aromatic group substituted alkanoic acid derivative. 4,649,213, 3-10-87, Cl. 560-56.000.
Yamauchi, Takayoshi; Hattori, Kaneaki; Ikeda, Shunichi; and Tamaki, Kentaro, to Kyowa Hakko Kogyo Co., Ltd. Cyclopentane derivatives. 4,716,241, 12-29-87, Cl. 558-44.000.
Yamauchi, Takeshi: *See*—
Suzuki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,653,571, Cl. 164-490.000.
Suzaki, Kengi; Itoh, Tadanao; Mitsuhashi, Hiroshi; Ozawa, Yuichi; Hasegawa, Sadao; and Yamauchi, Takeshi, 4,688,624, Cl. 164-440.000.
Yamauchi, Tatsumi: *See*—
Uragami, Akira; Suzuki, Yukio; Kadono, Shinji; Iwamura, Masahiro; Masuda, Ikuro; and Yamauchi, Tatsumi, 4,678,943, Cl. 307-473.000.
Yamauchi, Teruo; Nogi, Toshiharu; and Oyama, Yoshishige, to Hitachi, Ltd. Fuel control apparatus for an internal combustion engine. 4,643,151, 2-17-87, Cl. 123-432.000.
Yamauchi, Teruo: *See*—
Manaka, Toshio; Atago, Takeshi; and Yamauchi, Teruo, 4,665,877, Cl. 123-472.000.
Yamauchi, Toshio: *See*—
Hattori, Hiroyuki; Uemura, Takashi; and Yamauchi, Toshio, 4,701,305, Cl. 422-73.000.
Yamauchi, Warren. Container holder fitting device. 4,641,483, 2-10-87, Cl. 53-390.000.
Yamauchi, Yasuhisa, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Mounting structure for resistors used for controlling the running of industrial vehicles. 4,661,794, 4-28-87, Cl. 338-315.000.
Yamauchi, Yasuhisa; Asano, Masao; Anzai, Hideyuki; and Yasufuku, Yoshitaka, to Konishiroku Photo Industry Co., Ltd. Process for treating magnetic metal power. 4,710,427, 12-1-87, Cl. 428-407.000.
Yamauchi, Yasuhisa: *See*—
Asano, Masao; Isobe, Ryosuke; Yamauchi, Yasuhisa; and Yamagishi, Hiroaki, 4,713,293, Cl. 428-403.000.
Yamauchi, Yasutaka: *See*—
Tamura, Hiroshi; Nishibori, Kazuyoshi; Yamauchi, Yasutaka; and Kato, Katsushi, 4,683,859, Cl. 123-491.000.
Yamauchi, Yoshihiko: *See*—
Yamano, Eiiti; and Yamauchi, Yoshihiko, 4,708,387, Cl. 296-63.000.
Yamauchi, Yoshiyuki; Ohara, Toshio; and Takahashi, Toshio, to Nippondenso Co., Ltd. Plate-type heat exchanger. 4,696,342, 9-29-87, Cl. 165-152.000.
Yamauchi, Yuji: *See*—
Ishii, Takayuki; and Yamauchi, Yuji, 4,635,457, Cl. 72-66.000.
Yamauchi, Yukio: *See*—
Ito, Kentaro; Kubo, Tetsuya; and Yamauchi, Yukio, 4,661,320, Cl. 422-86.000.
Sugiyama, Tadashi; and Yamauchi, Yukio, 4,704,536, Cl. 250-381.000.
Yamauchi, Yutaka: *See*—
Sakimoto, Seiichiro; Fujita, Kazuo; Yamauchi, Yutaka; and Matsue, Hiroshi, 4,678,710, Cl. 428-407.000.
Yamaura, Izumi; Fukumoto, Masami; and Torigoe, Masao, to Matsushita Electric Industrial Co., Ltd. Electric blower. 4,679,990, 7-14-87, Cl. 417-312.000.
Yamaura, Junichi; Toyoguchi, Yoshinori; Matsui, Tooru; and Iijima, Takashi, to Matsushita Electric Industrial Co., Ltd. Process for producing rechargeable electrochemical device. 4,658,498, 4-21-87, Cl. 29-623.100.
Yamaura, Junichi; Matsui, Tooru; Nankai, Shiro; and Toyoguchi, Yoshinori, to Matsushita Electric Industrial Co., Ltd. Rechargeable electrochemical apparatus and positive electrode thereof. 4,668,594, 5-26-87, Cl. 429-194.000.
Yamaura, Junichi: *See*—
Yoshinori, Toyoguchi; Yamaura, Junichi; Matsui, Tooru; and Iijima, Takashi, 4,683,182, Cl. 429-194.000.
Yamaura, Mitsuru; and Fujisawa, Norio, to Kabushiki Kaisha Toshiba. Voltage/frequency converter with frequency drift compensation loop. 4,695,931, 9-22-87, Cl. 363-8.000.
Yamaura, Mitsuru; Inagaki, Junichi; and Ito, Hachidai, to Kabushiki Kaisha Toshiba. Digital protective relay system. 4,709,295, 11-24-87, Cl. 361-80.000.
Yamaura, Tatsuo; and Takahashi, Hisamitsu, to Futaba Denshi Kogyo Kabushiki Kaisha. Low-velocity electron excited phosphor. 4,680,231, 7-14-87, Cl. 428-407.000.
Yamaura, Yutaka: *See*—
Kumatani, Hiroshi; and Yamaura, Yutaka, 4,691,588, Cl. 74-512.000.
Yamawaki, Ichiro; Ogawa, Kazuo; Ono, Naohiko; Honna, Takaji; Nagayama, Sekio; and Yasumoto, Mitsugi, to Taiho Pharmaceutical Company, Limited. Derivative of piperazine having anti-allergic and anti-inflammatory action. 4,696,929, 9-29-87, Cl. 514-253.000.
Yamawaki, Ichiro: *See*—
Koda, Akihide; Hori, Mikio; Yasumoto, Mitsugi; Matsuura, Naosuke; Yamawaki, Ichiro; and Tada, Yukio, 4,670,583, Cl. 562-426.000.
Yamawaki, Masakatsu; Sakamoto, Isamu; Mizusawa, Kenichi, and Iwamoto, Eiji, to Nissin-High Voltage Co., Ltd. Electron beam irradiation apparatus. 4,642,467, 2-10-87, Cl. 250-492.300.
Yamawaki, Masami; Chino, Shuichi; Minamisawa, Tsuyoshi; and Nakamura, Masaaki, to Polyplastics Co., Ltd. Method of continuous polymerization. 4,661,570, 4-28-87, Cl. 526-88.000.
Yamawaki, Masao: *See*—
Kimata, Masafumi; Yamawaki, Masao; and Yamakawa, Satoshi, 4,707,744, Cl. 358-213.260.
Yamawaki, Seiichi; Obuchi, Tomoki, Toyama, Noboru; and Shogen, Kazuyoshi, to NEC Corporation. Corrugated elliptical waveguide or horn. 4,673,905, 6-16-87, Cl. 333-239.000.
Yamawaki, Yoshiro: *See*—
Murata, Seiichiro; Tateishi, Masaru; Yoshioka, Toshio; Kamei, Sakito; Nakazono, Hiroshi; and Yamawaki, Yoshiro, 4,660,491, Cl. 114-65.00R.
Yamaya, Koji: *See*—
Ogiu, Hisao; and Yamaya, Koji, 4,667,655, Cl. 128-6.000.
Yamaya, Masaaki: *See*—
Terae, Nobuyuki; Yamaya, Masaaki; and Okada, Fumio, 4,690,713, Cl. 106-287.160.
Yamaya Sangyo Co., Ltd.: *See*—
Tatsuzawa, Hisao, 4,715,230, Cl. 73-706.000.
Yamayoshi, Kazuo: *See*—
Masuhara, Kenichi; Yamayoshi, Kazuo; and Wakabayashi, Kouji, 4,695,516, Cl. 428-623.000.
Masuhara, Kenichi; Yamayoshi, Kazuo; and Wakabayashi, Kouji, 4,702,968, Cl. 428-623.000.
Yamazaki, Akitoshi; and Miyauchi, Kazunori, to Tsubakimoto Chain Company. Two-handed robot device. 4,664,589, 5-12-87, Cl. 414-730.000.
Yamazaki, Atsuki: *See*—
Shibanuma, Tadao; Nagano, Noriaki; Hara, Ryuichiro; Nakano, Kohju Koda, Akio; Yamazaki, Atsuki; and Murakami, Yukiyasu, 4,690,921, Cl. 514-205.000.
Shibanuma, Tadao; Nakano, Kohji; Nagano, Noriaki; Murakami, Yukiyasu; Hara, Ryuichiro; Koda, Akio; and Yamazaki, Atsuki, 4,699,980, Cl. 540-224.000.
Yamazaki, Daisuke: *See*—
Ueda, Toshitsugu; Kohsaka, Fusao; Yamazaki, Daisuke; and Akazawa, Hideo, 4,680,970, Cl. 73-702.000.
Yamazaki, Eiichi, to Hitachi, Ltd. Video projector. 4,651,217, 3-17-87, Cl. 358-231.000.
Yamazaki, Etsuo; and Matsuura, Hitoshi, to Fanuc Ltd. Arbitrary-direction tracer control unit. 4,703,239, 10-27-87, Cl. 318-578.000.
Yamazaki, Etuo, to Fanuc Ltd. Function diagnosing system. 4,638,455, 1-20-87, Cl. 364-900.000.
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Yamazaki, Hajime: *See*—
Hiza, Misao; Yamazaki, Hajime; and Omote, Shigeo, 4,654,382, Cl. 523-457.000.
Nakai, Ryusuke; Takebe, Toshihiko; and Yamazaki, Hajime, 4,636,280, Cl. 156-603.000.
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Yamazaki, Heima: *See*—
Noguchi, Kosaku; Tanaka, Honami; Kumera, Yukimasa; Yamazaki, Heima; Kitajima, Eiji; and Sunada, Tomonori, 4,640,822, Cl. 422-111.000.
Yamazaki, Hideo: *See*—
Yoshimoto, Takeo; Umemoto, Mitsumasa; Igarashi, Kenichi; Kubota, Yutaka; Yamazaki, Hideo; Enomoto, Yuji; and Yanagita, Hirohisa, 4,692,466, Cl. 514-604.000.
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Inoue, Masatsugu; and Yamazaki, Hidetoshi, 4,677,339, Cl. 313-402.000.
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Nagai, Tatsuo; Suzuki, Shinichi; and Yamazaki, Hiroshi, 4,708,924, Cl. 430-138.000.
Ogihara, Masuo; Oda, Hajime; Seki, Yoichi; and Yamazaki, Hiroshi, 4,648,701, Cl. 354-439.000.
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Fujita, Hisao; Yamazaki, Hiroyuki; and Wakabayashi, Tomoko, 4,688,903, Cl. 350-432.000.

Yamazaki, Hisato: *See*—
Yamane, Kunio; Ohmura, Kazutaka; Yamazaki, Hisato; and Shiroza, Teruaki, 4,690,898, Cl. 435-320.000.

Yamazaki, Hitoshi: *See*—
Takeda, Takao; Yamazaki, Hitoshi; Taniguchi, Yoshiteru; Tanaka, Norihiko; Ito, Hiroshi; Uchida, Minoru; and Imai, Jun, 4,703,227, Cl. 313-634.000.

Yamazaki, Hozo: *See*—
Yoshimura, Shushichi; Hiwatashi, Yasunori; Kobayashi, Hiromu; Yamazaki, Hozo; Nishino, Nobu; Tahara, Teruji; and Kobayashi, Hidenobu, 4,693,879, Cl. 423-461.000.

Yamazaki, Isamu: *See*—
Watanabe, Kenji; Yamazaki, Isamu; Kyomasu, Ryuichi; Takasugi, Nobuhiro; Mimata, Tsutomu; and Kakutani, Osamu, 4,674,670, Cl. 228-102.000.

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Tsuda, Masao; Sawa, Yoichi; and Yamazaki, Iwao, 4,644,012, Cl. 514-456.000.

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Michiue, Kenji; Yagi, Toshihiko; Yamazaki, Katsumasa; Goto, Sohei; and Mochizuki, Yoshiharu, 4,670,375, Cl. 430-509.000.
Mochizuki, Yoshihara; Goto, Sohei; Yagi, Toshihiko; Yamazaki, Katsumasa; and Michiue, Kenji, 4,639,410, Cl. 430-506.000.
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Yamazaki, Katuyuki: *See*—
Maruya, Takeshi; and Yamazaki, Katuyuki, 4,670,022, Cl. 44-68.000.

Yamazaki, Kazuhiro; and Uchida, Manabu, to Daicel Chemical Industries, Ltd. Porous spherical cellulose acetate particles. 4,663,447, 5-5-87, Cl. 536-76.000.

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Takahashi, Shigeyuki; Uchida, Manabu; and Yamazaki, Kazuhiro, 4,638,057, Cl. 536-76.000.

Yamazaki, Kazuo: *See*—
Kato, Hiroshi; Kojima, Toshihisa; and Yamazaki, Kazuo, 4,651,053, Cl. 313-466.000.
Tateyama, Norihiro; Yamazaki, Kazuo; Kato, Hiroshi; and Teshima, Haruhito, 4,707,635, Cl. 313-466.000.

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Mizukado, Masayoshi; Morishita, Akio; and Muto, Yoshihiro, 4,640,166, Cl. 83-552.000.
Momoi, Shoji; and Inami, Sumiaki, 4,679,286, Cl. 29-33.00P.
Saeki, Hideki; and Kanematsu, Isao, 4,656,728, Cl. 29-568.000.
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Yamazaki, Masahiro; Iizuka, Shigeru; Kamiya, Shigemitsu; Oka, Yoshiro; and Fujino, Katsuhiro, to Nippon Zeon Co., Ltd.; and Fujitsu Limited. Method and apparatus for feeding drug liquid from hermetic returnable can. 4,676,404, 6-30-87, Cl. 222-56.000.

Yamazaki, Masahiro: *See*—
Mori, Hideharu; Koyama, Shozi; and Yamazaki, Masahiro, 4,696,689, Cl. 62-32.000.
Oie, Masayuki; Ogawa, Satoshi; Sugimoto, Sadao; Yamazaki, Masahiro; and Fujino, Katsuhiro, 4,654,292, Cl. 430-197.000.

Yamazaki, Masayasu: *See*—
Hatano, Hirofumi; Yamazaki, Masayasu; Sasaki, Atsushi; Mikami, Keigo, deceased; Taoda, Kiyomichi; and Murakami, Mitsuharu, 4,669,976, Cl. 432-58.000.

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Wakamiya, Katsutoshi; Matsumoto, Toru; and Yamazaki, Masuo, 4,656,111, Cl. 430-109.000.
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Yamazaki, Midori: *See*—
Yamaguchi, Keizaburo; Sugimoto, Kenichi; Tanabe, Yoshimitsu; Yamazaki, Midori; and Yamaguchi, Akihiro, 4,671,890, Cl. 252-182.000.

Yamazaki, Minoru; and Kori, Teruhiko, to Sony Corporation. Recording apparatus for video signal. 4,677,504, 6-30-87, Cl. 360-77.000.

Yamazaki, Mitsuo: *See*—
Kaneko, Masakatsu; Kimura, Misako; Murofushi, Yoshinobu; Yamazaki, Mitsuo; Iwata, Nobuyoshi; and Nakagawa, Fumio, 4,634,706, Cl. 514-262.000.
Matsueda, Rei; Yabe, Yuichiro; Yamazaki, Mitsuo; Kokubu, Tatsuo; and Hiwada, Kunio, 4,698,329, Cl. 514-18.000.
Yoshioka, Takao; Kitazawa, Eiichi; Yamazaki, Mitsuo; and Iizuka, Yoshio, 4,691,027, Cl. 549-32.000.

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Koga, Ketichiro; Yamazaki, Norikazu; and Muratani, Takuro, 4,694,455, Cl. 371-37.000.

Yamazaki, Norio: *See*—
Imaike, Sekiji; Hata, Takeki; and Yamazaki, Norio, 4,704,873, Cl. 62-64.000.

Yamazaki, Seiichi; Uchiyama, Kaoru; and Tahara, Toshiro, to Fuji Photo Film Co., Ltd. Apparatus for processing photosensitive material. 4,662,554, 5-5-87, Cl. 226-170.000.

Yamazaki, Seiichi; Uchiyama, Kaoru; and Tahara, Toshiro, to Fuji Photo Film Co., Ltd. Drying apparatus. 4,693,016, 9-15-87, Cl. 34-52.000.

Yamazaki, Shigeru: *See*—
Ikeda, Kunihiko; Suzuki, Shigeru; Yokota, Takashi; Shimura, Akira; Kodama, Yutaka; Yamazaki, Shigeru; Niro, Masaichi; and Tomita, Satoru, 4,657,372, Cl. 355-3.00R.

Yamazaki, Shingo: *See*—
Makino, Yoshio; Nagai, Takeshi; and Yamazaki, Shingo, 4,636,322, Cl. 252-51.50R.

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Yamazaki, Shiro: *See*—
Aoki, Katsumichi; Shida, Takafumi; Kanda, Yoichi; Satake, Keigo; Shinkawa, Hiroyasu; and Yamazaki, Shiro, 4,650,515, Cl. 71-90.000.
Aoki, Katsumichi; Shida, Takafumi; Arabori, Hideo; Kumazawa, Satoru; Shimizue, Susumu; Watanave, Takeo; Kanda, Yohichi; Satake, Keigo; Yamazaki, Shiro; Shinkawa, Hiroyasu; and Chida, Tsuneaki, 4,690,704, Cl. 71-90.000.

Yamazaki, Shohei, to Nippon Gakki Seizo Kabushiki Kaisha. Clock signal reproducing circuit for a player reproducing information of a disc. 4,672,597, 6-9-87, Cl. 369-59.000.

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Yamazaki, Shunpei, to Semiconductor Energy Laboratory Co., Ltd. Photoelectric conversion device. 4,638,108, 1-20-87, Cl. 136-244.000.

Yamazaki, Shunpei, to Semiconductor Energy Laboratory Co., Ltd. Method and apparatus for forming non-single-crystal layer. 4,640,845, 2-3-87, Cl. 427-38.000.

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Yamazaki, Shunpei, to Semiconductor Energy Laboratory Co., Ltd. Photoelectric conversion panel and assembly thereof. 4,654,467, 3-31-87, Cl. 136-251.000.

Yamazaki, Shunpei, to Semiconductor Energy Laboratory Co., Ltd. Sidewall gate IGFET. 4,654,680, 3-31-87, Cl. 357-23.300.

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Yamazaki, Shunpei, to Semiconductor Energy Laboratory Co., Ltd. Silicon fiber and method of making the same. 4,659,507, 4-21-87, Cl. 252-500.000.

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Yamazaki, Shunpei, to Semiconductor Energy Laboratory Co., Ltd. Vertical non-single crystal semiconductor field effect transistor. 4,668,969, 5-26-87, Cl. 357-23.400.

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Yamazaki, Shunpei, to Semiconductor Energy Laboratory Co., Ltd. Method of making photoelectric conversion device. 4,686,760, 8-18-87, Cl. 437-5.000.

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Yamazaki, Shuntaro: *See*—
Shikada, Minoru; Yamazaki, Shuntaro; and Fujita, Sadao, 4,700,352, Cl. 372-20.000.

Yamazaki, Sigeru; and Nakayama, Mitsuhito, to Ebara Corporation. Apparatus for controlling the starting of a three phase load with its normal phase sequence. 4,667,264, 5-19-87, Cl. 361-77.000.

Yamazaki, Susumu: *See*—
Kobayashi, Masahiro; Yamazaki, Susumu; Mikawa, Takashi; Nakajima, Kazuo; and Kaneda, Takao, 4,656,494, Cl. 357-30.000.

Yamazaki, Syuichi: *See*—
Shioura, Kozo; Yamazaki, Syuichi; and Shono, Hiroaki, 4,698,083, Cl. 65-2.000.

Yamazaki, Takao, to Neturen Co., Ltd. Cutting method to be applied to producing helical springs by cold-forming thick high-strength wire. 4,705,580, 11-10-87, Cl. 148-154.000.

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Yamazaki, Takashi; and Sakamoto, Katsuji, to Sumitomo Electric Industries, Ltd. Wire accumulator. 4,641,794, 2-10-87, Cl. 242-47.010.

Yamazaki, Takeo: *See*—
Shoji, Moritaka; Yamazaki, Takeo; and Ogihara, Satoru, 4,692,735, Cl. 338-21.000.

Yamazaki, Takeshi: *See*—
Ogura, Kenji; and Yamazaki, Takeshi, 4,636,474, Cl. 435-291.000.

Yamazaki, Taro, to Osaka Soda Co., Ltd. Electrically conductive adhesive composition. 4,696,764, 9-29-87, Cl. 252-503.000.

Yamazaki, Tatsu: *See*—
Kosaka, Masato; and Yamazaki, Tatsu, 4,690,036, Cl. 91-506.000.

Yamazaki, Teruhiko: *See*—
Suzuki, Yoshiki; and Yamazaki, Teruhiko, 4,688,918, Cl. 354-325.000.

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Micetich, Ronald G.; Yamabe, Shigeru; Tanaka, Motoaki; Yamazaki, Tomio; Ishida, Naobumi; and Kajitani, Makoto, 4,668,514, Cl. 424-114.000.

Yamazaki, Toru: *See*—
Nakanishi, Haruo; Sakaki, Hirokazu; Yamazaki, Toru; and Okishi, Yoshio, 4,678,551, Cl. 204-129.750.
Ohba, Masahiro; Sugimoto, Hiroshi; Kamiya, Toru; Yamazaki, Toru; Tanabe, Hidemichi; Hirano, Satoshi; Namba, Hideaki; Matsui, Katsumasa; and Miura, Hisahiro, 4,668,873, Cl. 307-9.000.

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Yamazaki, Toshiyuki: *See*—
Watanabe, Eifu; and Yamazaki, Toshiyuki, 4,698,037, Cl. 440-78.000.

Yamazaki, Tsuneo, to Kabushiki Kaisha Daini Seikosha. Reflective, thin film transistor addressed, matrix liquid crystal display. 4,643,530, 2-17-87, Cl. 350-339.00R.

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Yamazaki, Tsutomu: *See*—
Kato, Masaki; and Yamazaki, Tsutomu, 4,694,798, Cl. 123-339.000.

Yamazaki, Yasuhiro: *See*—
Endoh, Toshiaki; and Yamazaki, Yasuhiro, 4,652,935, Cl. 358-260.000.

Yamazaki, Yasuyoshi: *See*—
Okado, Hideo; Shoji, Hiroshi; Takaya, Haruo; Kawamura, Kichinari; and Yamazaki, Yasuyoshi, 4,636,482, Cl. 502-60.000.

Yamazaki, Yoji; Okada, Toshiyuki; and Miyahara, Tsuneo, to Lion Corporation. Oral compositions comprising hydroxamic acids and salts thereof. 4,661,342, 4-28-87, Cl. 424-54.000.

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Yamazaki, Yoshio; and Takimoto, Masahiro, to Toyoda Gosei Co., Ltd. Trim strip. 4,654,238, 3-31-87, Cl. 428-31.000.

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Takimoto, Masahiro; Takeuchi, Junji; and Yamazaki, Yoshio, 4,713,419, Cl. 525-211.000.

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Yamazoe, Hisamitsu: *See*—
Kodama, Katsuhiko; and Yamazoe, Hisamitsu, 4,640,257, Cl. 123-571.000.

Yamori, Tsunefumi; Syuku, Sigekazu; and Fujioka, Hironari, to Kanzaki Paper Manufacturing Co., Ltd. Heat-sensitive recording material. 4,647,951, 3-3-87, Cl. 346-200.000.

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Yampolsky, Jack S.; and Carosella, David P. E., Jr., to GA Technologies Inc. Heat exchanger. 4,660,632, 4-28-87, Cl. 165-160.000.

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Yan, Johnson K., to Singer Company, The. Computer-generated image system to display translucent features with anti-aliasing. 4,679,040, 7-7-87, Cl. 340-747.000.

Yan, Man F.: *See*—
Ling, Hung C.; Rhodes, Warren W.; and Yan, Man F., 4,637,989, Cl. 501-135.000.
Ling, Hung C.; and Yan, Man F., 4,638,401, Cl. 361-321.000.

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Green, Gary J.; and Yan, Tsoung-Y, 4,672,143, Cl. 585-540.000.
Heilweil, Israel J.; and Yan, Tsoung Y., 4,652,375, Cl. 210-642.000.
Weisz, Paul B.; and Yan, Tsoung Y., 4,716,136, Cl. 502-64.000.
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Yanabu, Satoru: *See*—
Kaneko, Eiji; Yanabu, Satoru; and Tamagawa, Tohoru, 4,698,467, Cl. 200-144.00B.
Yanada, Shigeo: *See*—
Masumoto, Mituhiko; Yanada, Shigeo; and Kinugawa, Tadami, 4,695,620, Cl. 528-204.000.
Yanagase, Akira: *See*—
Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, 4,639,339, Cl. 260-513.600.
Murashige, Yoshio; Yanagase, Akira; Kawachi, Yasunori; and Soga, Junko, 4,673,688, Cl. 514-554.000.
Sasaki, Isao; Yanagase, Akira; Kawachi, Yasunori; Mayuzumi, Tetsuya; Oba, Toshio; and Okade, Fumio, 4,690,986, Cl. 525-479.000.
Yanagawa, Hitoshi: *See*—
Maetani, Masami; and Yanagawa, Hitoshi, 4,663,573, Cl. 318-6.000.
Yanagawa, Ichiro; and Wachi, Yuji, to Jidosha Kiki Co., Ltd. Air drier apparatus. 4,713,094, 12-15-87, Cl. 55-163.000.
Yanagawa, Motoo, to Denki Kogyo Company Limited. Electrostatic dust collector. 4,662,903, 5-5-87, Cl. 55-126.000.
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Horikawa, Tokio; Sawai, Mitsuaki; Fujioka, Hisatake; Kawashima, Nobumasa; and Yanagawa, Nobuhide, 4,660,668, Cl. 180-19.100.
Morita, Shigeru; and Yanagawa, Nobuhide, 4,692,086, Cl. 414-635.000.
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Inoue, Kaoru; Miyagawa, Hiroharu; Itoh, Masayoshi; Abe, Tomohiro; Koizumi, Kyogo; and Yanagawa, Noriyuki, 4,667,048, Cl. 556-469.000.
Yanagi, Hirofumi: *See*—
Moritani, Nakanobu; Sugita, Mitsuyuki; Hoshino, Isamu; Yanagi, Hirofumi; Ikeno, Hitoshi; and Konno, Tetsuro, 4,709,218, Cl. 331-116.0FE.
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Yanagi, Kenichi: *See*—
Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,649,860, Cl. 118-718.000.
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Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Katoh, Mitsuo; Wada, Tetsuyoshi; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,676,999, Cl. 427-250.000.
Makihara, Katsumi; Yanagi, Kenichi; Fukushima, Takeo; Suganuma, Namio; Samejima, Ichiro; and Takahashi, Seiichi, 4,638,851, Cl. 165-32.000.
Shimozato, Yoshio; Wada, Tetsuyoshi; Yanagi, Kenichi; Kato, Mitsuo; Furukawa, Heizaburo; Wake, Kanji; Morita, Arihiko; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; and Nakanishi, Yasuji, 4,655,168, Cl. 118-718.000.
Umeda, Shozo; Tsukiji, Norio; Aiko, Takuya; Kittaka, Toshiharu; Furukawa, Heizaburo; Wake, Kanji; Shimozato, Yoshio; Yanagi, Kenichi; Kato, Mitsuo; and Wada, Tetsuyoshi, 4,643,131, Cl. 118-718.000.
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Yanagi, Tooru: *See*—
Osaka, Keiji; Usui, Yuichi; and Yanagi, Tooru, 4,715,876, Cl. 65-4.210.
Yanagi, Tosio: *See*—
Katase, Haruhisa; Rokushima, Yasuo; and Yanagi, Tosio, 4,704,731, Cl. 383-120.000.
Yanagi, Yoshitaka: *See*—
Okabe, Ryuichiro; and Yanagi, Yoshitaka, 4,697,503, Cl. 99-306.000.
Yanagida, Hiroaki; and Ogata, Tadashi, to Kabushiki Kaisha Advance Kaihatsu Kenkyujo. Gas sensor. 4,715,944, 12-29-87, Cl. 204-426.000.
Yanagida, Kazuhiro: *See*—
Tate, Kazuhito; Yoshida, Hajime; and Yanagida, Kazuhiro, 4,670,129, Cl. 208-22.000.
Yanagida, Seiichi; Kiuchi, Takao; and Kasami, Hiroyuki, to Kabushiki Kaisha Toshiba; Fuji Photo Film Co., Ltd.; and Toshiba Audio Video Engineering Co., Ltd. Cassette cover opening mechanism. 4,654,729, 3-31-87, Cl. 360-93.000.
Yanagida, Takehiko: *See*—
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; Yoshida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fukuda, Shigeho, 4,653,163, Cl. 29-157.30R.
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Nakayama, Wataru; Sugimoto, Shigeo; and Oizumi, Kiyoshi, 4,690,211, Cl. 165-177.000.
Takahashi, Kenji; Kuwahara, Heikichi; Yanagida, Takehiko; Nakayama, Wataru; Oizumi, Kiyoshi; and Sugimoto, Shigeo, 4,715,436, Cl. 165-133.000.
Yanagida, Yoshifumi: *See*—
Takahashi, Satomi; Inoue, Kenji; Yanagida, Yoshifumi; Ohashi, Takehisa; and Watanabe, Kiyoshi, 4,716,235, Cl. 548-533.000.
Yanagihara, Eiichi: *See*—
Fujii, Hideji; Hayakawa, Takayuki; Sato, Shigeru; and Yanagihara, Eiichi, 4,640,729, Cl. 156-257.000.
Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, to Japan Synthetic Rubber Company Limited; and Fuji Photo Film Co., Ltd. Polymeric thin film, process for producing the same and products containing said thin film. 4,636,435, 1-13-87, Cl. 428-336.000.
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Yanagihara, Kenji: *See*—
Kuwahara, Hideyuki; Kondo, Bunji; Takada, Jun; Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,701,301, Cl. 419-21.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Yanagihara, Kenji; Kimura, Mituo; and Niinomi, Masahiro, 4,693,927, Cl. 428-216.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,711,809, Cl. 428-336.000.
Nishikawa, Yasuo; Okita, Tsutomu; Mukaida, Yoshito; Niinomi, Masahiro; Yanagihara, Kenji; and Kimura, Mituo, 4,713,287, Cl. 428-336.000.
Yanagihara, Kimihiro: *See*—
Todoroki, Yukio; Seto, Makoto; Yanagihara, Kimihiro; and Yano, Sadanari, 4,651,078, Cl. 318-798.000.
Yanagihara, Masamitsu: *See*—
Tanimoto, Akikazu; Ishizaka, Shoji; Endo, Yutaka; Suzuki, Hiroyuki; and Yanagihara, Masamitsu, 4,687,322, Cl. 355.55.000.
Yanagihara, Masanobu, to Kabushiki Kaisha Toshiba. Washing machine. 4,658,605, 4-21-87, Cl. 68-23.500.
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Yanagihara, Toshio: *See*—
Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,669,964, Cl. 425-34.00R.
Amano, Itaru; Fujieda, Yasuhiko; Ichikawa, Katsumi; Kanzawa, Masahide; Yanagihara, Toshio; and Misumi, Shikao, 4,695,234, Cl. 425-23.000.
Yanagihara, Yasukichi; and Kato, Takuo, to Tomei Sangyo Kabushiki Kaisha. Hydrogel fundamental material. 4,699,946, 10-13-87, Cl. 524-539.000.
Yanagihashi, Kikuji: *See*—
Sakamaki, Hiroshi; Sugishita, Susumu; Horikoshi, Yukio; and Yanagihashi, Kikuji, 4,648,818, Cl. 418-173.000.
Sakamaki, Hiroshi; Horikoshi, Yukio; and Yanagihashi, Kikuji, 4,657,493, Cl. 418-173.000.
Yanagimachi, Akio: *See*—
Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; Yamada, Osamu; and Ueguri, Shigeharu, 4,672,612, Cl. 371-37.000.
Shishikura, Hirohisa; Sase, Ichiro; Yanagimachi, Akio; and Yamada, Osamu, 4,675,868, Cl. 371-37.000.
Yanagimoto, Katsutoshi; and Nagai, Shoichi, to Dainippon Screen Mfg. Co., Ltd. Method of forming corrosion resistant film on the surface of substrate composed of copper or copper alloy. 4,634,655, 1-6-87, Cl. 430-277.000.
Yanagimoto, Shigeru; and Mitamura, Ryota, to Showa Aluminum Industries K.K. Method for continuous casting of metal using light and light sensor to measure mold melt interface. 4,664,175, 5-12-87, Cl. 164-455.000.
Yanagimoto, Takayuki: *See*—
Asano, Yuichiro; Kono, Yoshihisa; Yanagimoto, Takayuki; Shiozumi, Motoji; Takahashi, Kunio; Torao, Akira; Moriya, Susumu; and Momose, Atsushi, 4,708,882, Cl. 427-1.000.
Yanagimoto, Takekazu: *See*—
Arai, Noboru; and Yanagimoto, Takekazu, 4,693,555, Cl. 350-253.000.
Yanagisawa, Akira: *See*—
Sakamoto, Norio; Ikariya, Toshiyuki; Takahashi, Kiyohiko; Nakamura, Masao; and Yanagisawa, Akira, 4,668,472, Cl. 422-56.000.

Yanagisawa, Etsuo: *See*—
Uchida, Noriaki; Ushijima, Makoto; and Yanagisawa, Etsuo, 4,667,259, Cl. 360-122.000.

Yanagisawa, Hiroaki; Ishihara, Sadao; Ando, Akiko; Kanazaki, Takuro; Koike, Hiroyuki; and Tsujita, Yoshio, to Sankyo Company, Limited. Perhydrothiazepine derivatives, their preparation and their therapeutic use. 4,699,905, 10-13-87, Cl. 514-211.000.

Yanagisawa, Hiroshi: *See*—
Asada, Shigeki; and Yanagisawa, Hiroshi, 4,703,364, Cl. 358-285.000.
Itoh, Masaharu; Yokemura, Taketoshi; and Yanagisawa, Hiroshi, 4,682,869, Cl. 358-260.000.

Yanagisawa, Ichiro: *See*—
Kobayashi, Shigeyoshi; Manabe, Tsuneo; and Yanagisawa, Ichiro, 4,693,748, Cl. 106-35.000.

Yanagisawa, Kazumasa, to Hitachi, Ltd. Dynamic memory. 4,651,306, 3-17-87, Cl. 365-210.000.

Yanagisawa, Kazumasa, to Hitachi, Ltd. Semiconductor integrated circuit device formed with a CMOS circuit and a boatstrap capacitor. 4,707,625, 11-17-87, Cl. 307-578.000.

Yanagisawa, Keizo: *See*—
Boda, Keiji; Waki, Kouichirou; and Yanagisawa, Keizo, 4,709,596, Cl. 74-868.000.

Yanagisawa, Masahiro, to Sanden Corporation. Receiver dryer with improved sealing structure. 4,649,719, 3-17-87, Cl. 62-474.000.

Yanagisawa, Masahiro, to Sanden Corporation. Porting member with a universal coupling mechanism. 4,679,829, 7-14-87, Cl. 285-190.000.

Yanagisawa, Masahiro, to NEC Corporation. Magnetic storage medium with lubricating coating. 4,696,845, 9-29-87, Cl. 428-64.000.

Yanagisawa, Shuichi: *See*—
Matsui, Fumio; Yanagisawa, Shuichi; Kakuta, Yoshiyuki; and Yoshizawa, Atsushi, 4,639,745, Cl. 346-135.100.

Yanagisawa, Takeji: *See*—
Yokota, Tohru; Inoue, Kaname; Kitamura, Hajime; Isobe, Kenichi; Ichinohe, Shoji; and Yanagisawa, Takeji, 4,665,145, Cl. 526-279.000.

Yanagisawa, Taminori: *See*—
Tsuge, Eiji; Yanagisawa, Taminori; Yamaguchi, Takaharu; and Fukatsu, Hiroshi, 4,634,338, Cl. 414-752.000.

Yanagisawa, Wasuke; and Muramatsu, Kenichi, to Yokowo Mfg. Co., Ltd. Microwave amplifying apparatus. 4,716,382, 12-29-87, Cl. 330-286.000.

Yanagisawa, Yoshikazu: *See*—
Mino, Kaoru; and Yanagisawa, Yoshikazu, 4,672,819, Cl. 62-298.000.

Yanagishima, Fumiya: *See*—
Ohta, Norio; Yanagishima, Fumiya; Kaihara, Toshikazu; Kishida, Akira; Sato, Kuniaki; and Ochiai, Masanobu, 4,713,154, Cl. 204-145.00R.

Yanagishita, Hitoshi: *See*—
Sato, Atsushi; Endo, Keiji; Kawakami, Shigenobu; Yanagishita, Hitoshi; and Hayashi, Shozo, 4,681,980, Cl. 585-6.300.

Yanagita, Hirohisa: *See*—
Yoshimoto, Takeo; Umemoto, Mitsumasa; Igarashi, Keiichi; Kubota, Yutaka; Yamazaki, Hideo; Enomoto, Yuji; and Yanagita, Hirohisa, 4,692,466, Cl. 514-604.000.

Yanagita, Makoto: *See*—
Kanda, Shoichi; Yanagita, Makoto; and Sekimoto, Yukihiko, 4,661,266, Cl. 252-8.551.
Kanda, Shoichi; Yanagita, Makoto; and Sekimoto, Yukihiko, 4,681,690, Cl. 252-8.551.
Sekimoto, Yukihiko; Yanagita, Makoto; and Kanda, Shoichi, 4,691,013, Cl. 536-96.000.

Yanagita, Tomoatsu: *See*—
Shiozaki, Kenichi; Kishi, Makoto; Yanagita, Tomoatsu; and Kubo, Kanji, 4,658,356, Cl. 364-200.000.

Yanagiuchi, Noboru; Adachi, Shigeo; Inoue, Masatoshi; Takata, Hiroshi; and Matsuda, Toyoshi, to Kawasaki Jukogyo Kabushiki Kaisha. Arrangement for governing vehicle engine speed responsive to actual running speed of the vehicle. 4,637,270, 1-20-87, Cl. 74-336.500.

Yanagiuchi, Shigenobu; and Omori, Takuro, to Sharp Kabushiki Kaisha. Dedicated I/O serial bit interface with peripheral selection. 4,642,761, 2-10-87, Cl. 364-200.000.

Yanagiya, Toshio; Isokawa, Kenji; Ohta, Hisashi; and Inaba, Hideaki, to Daido Tokushuko Kabushiki Kaisha. Steel for cold forging and method of making. 4,634,573, 1-6-87, Cl. 420-137.000.

Yanai, Akihiro: *See*—
Toyonaga, Kenji; Higashitsutsumi, Yoshihito; Yanai, Akihiro; and Akiyama, Toru, 4,667,338, Cl. 377-45.000.
Toyonaga, Kenji; Higashitsutsumi, Yoshihito; and Yanai, Akihiro, 4,689,785, Cl. 370-85.000.

Yanai, Akio; and Shirahata, Ryuji, to Fuji Photo Film Co., Ltd. Magnetic recording medium. 4,661,418, 4-28-87, Cl. 428-610.000.

Yanai, Akio: *See*—
Yasunaga, Tadashi; Yanai, Akio; and Shirahata, Ryuji, 4,702,938, Cl. 427-132.000.

Yanai, Eiji; and Kuribayashi, Tetsuzo, to Hitachi, Ltd. Waste heat recovery boiler. 4,693,213, 9-15-87, Cl. 122-7.00R.

Yanai, Hisayoshi: *See*—
Ikoma, Toshiaki; Maeda, Hajime; Yanai, Hisayoshi; Dang, Ryo; and Shigyo, Naoyuki, 4,636,824, Cl. 357-23.140.

Yanai, Junichi: *See*—
Mizunoe, Katsumi; Yanai, Junichi; and Kimoto, Kiyoshi, 4,641,296, Cl. 369-46.000.

Yanai, Masahiro: *See*—
Sekino, Mituru; Hiroshima, Minoru; and Yanai, Masahiro, 4,689,769, Cl. 365-15.000.

Yanai, Shun'ichi: *See*—
Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.

Yanai, Takao; and Takahashi, Yoshiaki, to Hitachi, Ltd. Status-change data gathering apparatus. 4,642,760, 2-10-87, Cl. 364-200.000.

Yanai, Tokiyoshi; Nakayama, Masafumi; Aoyama, Yutaka; and Nakata, Moritsune, to Nissan Motor Co., Ltd. Electrical motor type power-steering system. 4,650,019, 3-17-87, Cl. 180-79.100.

Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Nakayama, Masafumi; Higuchi, Megumu; Aoyama, Yutaka; and Nakata, Moritsune, to Nissan Motor Company, Limited. Power steering system. 4,669,360, 6-2-87, Cl. 91-382.000.

Yanai, Tokiyoshi: *See*—
Nakata, Moritsune; Yanai, Tokiyoshi; Yamaguchi, Hirotsugu; Higuchi, Megumu; Aoyama, Yutaka; and Shibahata, Yasuji, 4,634,135, Cl. 280-90.000.

Yanai, Yoshimi: *See*—
Mori, Takanobu; Fukui, Yutaka; Kashimura, Tetsuo; and Yanai, Yoshimi, 4,642,495, Cl. 310-52.000.

Yanakis, Eleni C.: *See*—
Pall, David B.; Degen, Peter J.; Gsell, Thomas C.; and Yanakis, Eleni C., 4,702,947, Cl. 428-36.000.

Yanami, Tetsuji; Murai, Yoshiyuji; and Oshima, Ryoichi, to Daicel Chemical Industries Ltd. Process for the preparation of glycosides. 4,683,297, 7-28-87, Cl. 536-18.600.

Yananton, Patrick. Odorless animal litter unit. 4,640,225, 2-3-87, Cl. 119-1.000.

Yanase, Akira: *See*—
Yamanaka, Sekisuke; Yanase, Akira; Hasegawa, Kiyotaka; and Sakakino, Takahiro, 4,647,732, Cl. 200-11.0TW.

Yanase, Fumihiro: *See*—
Shiba, Takeshi; Shimizu, Toshiaki; and Yanase, Fumihiro, 4,659,437, Cl. 204-28.000.

Yanase, Shozaburo. Bag for mothers milk. 4,634,006, 1-6-87, Cl. 206-604.000.

Yanase, Shozaburo, to Yanase Waitch K.K. Bag for containing flowable foodstuff. 4,686,814, 8-18-87, Cl. 53-459.000.

Yanase, Sumio: *See*—
Nagata, Masami; Yanase, Sumio; and Setaka, Yousuke, 4,641,066, Cl. 318-254.000.
Takeuchi, Hirotaka; Asai, Jiro; Yamada, Yasuhumi; and Yanase, Sumio, 4,701,692, Cl. 322-90.000.

Yanase, Takeyasu: *See*—
Amatsu, Masashi; Yanase, Takeyasu; Inoue, Hiroshi; and Nakagawa, Yusuke, 4,698,786, Cl. 365-39.000.

Yanase, Tomoo; and Rangu, Hiroyoshi, to NEC Corporation. Surface-emitting semiconductor elements. 4,636,821, 1-13-87, Cl. 357-17.000.

Yanase, Tsunao, to Kaho Musen Limited. Controlled-drive toy. 4,702,718, 10-27-87, Cl. 446-175.000.

Yanase Waitch K.K.: *See*—
Yanase, Shozaburo, 4,686,814, Cl. 53-459.000.

Yanase, Yukimasa; and Okada, Tsuneyoshi, to Polyplastics Co., Ltd. Polyacetal resin composition. 4,649,172, 3-10-87, Cl. 524-413.000.

Yanata, Saki; Maruyama, Takahito; and Osakama, Chikashi, to Alps Electric Co., Ltd. Thermal printer with graduated cam actuation. 4,654,673, 3-31-87, Cl. 346-76.0PH.

Yanazawa, Tadaaki; Tanaka, Teruaki; Noda, Akio; Takeda, Ryo; and Inoue, Masataka, to Kawasaki Steel Corporation. Method of rolling steel rods and wires with grooveless rolls and grooveless rolling entry guide. 4,685,320, 8-11-87, Cl. 72-250.000.

Yancey, John F.: *See*—
Wesner, Charles R.; Yancey, John F.; and Coleman, Albert L., 4,692,868, Cl. 364-447.000.

Yane, Barry. Door latch assembly. 4,663,949, 5-12-87, Cl. 70-100.000.

Yang, Andrew C.; Payne, Richard; and Soref, Richard A., to United States of America, Air Force. Mode dependent, optical time delay system for electrical signals. 4,714,314, 12-22-87, Cl. 350-96.200.

Yang, Chen-Hsyong. *See*—
Lynch, Gary J.; and Yang, Chen-Hsyong, 4,695,410, Cl. 260-410.500.

Yang, Chi C.: *See*—
Ovshinsky, Stanford R.; Guha, Subhendu; Nath, Prem; Yang, Chi C.; Fournier, Jeffrey; and Kulman, James, 4,637,895, Cl. 252-188.310.
Ovshinsky, Stanford R.; Guha, Subhendu; Nath, Prem; Yang, Chi C.; Fournier, Jeffrey; and Kulman, James, 4,698,234, Cl. 427-39.000.

Yang, Chi Chung. *See*—
Ovshinsky, Stanford R.; Guha, Subhendu; Nath, Prem; Yang, Chi Chung; Fournier, Jeffrey; and Kulman, James, 4,696,758, Cl. 252-188.310.

Yang, Chi-Kuo. Link means of multiple-fold umbrella. 4,676,262, 6-30-87, Cl. 135-25.00R.

Yang, Ching-Wen: *See*—
Feng, Chung L.; and Yang, Ching-Wen, 4,706,557, Cl. 99-355.000.

Yang, Ching-Yun M.: *See*—
Mays, Alfred T.; and Yang, Ching-Yun M., 4,657,804, Cl. 428-212.000.

Yang, Darchun B.: *See*—
Wachs, Israel E.; and Yang, Darchun B., 4,711,871, Cl. 502-325.000.

Yang, Elmer C., to Pacific Scientific Company. Extended life gas spring. 4,646,884, 3-3-87, Cl. 188-322.210.

Yang, Elmer C., to Pacific Scientific Company. Acceleration limiter. 4,702,353, 10-27-87, Cl. 188-135.000.

Yang, Esther K.: *See*—
Lau, Hon-Peng P.; Yang, Esther K.; and Jacobson, Howard W., 4,661,408, Cl. 428-405.000.

Yang, Frank C.: *See*—
Heard, Charles M.; and Yang, Frank C., 4,712,222, Cl. 375-77.000.

Yang, Huei-Hsuing: *See*—
McGuire, Jeffrey C.; Montgomery, John P.; and Yang, Huei-Hsuing, 4,636,466, Cl. 435-108.000.

Yang, James H. C.; and Tomaszewski, Walter, to Firestone Tire & Rubber Company, The. Mechanical fastening system. 4,638,532, 1-27-87, Cl. 24-462.000.

Yang, Julie C.: *See*—
Ou, Chia-Chih; and Yang, Julie C., 4,655,842, Cl. 106-288.00B.

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Yang, Tai-Her. Lighting system having photosensing timing switch circuit. 4,645,980, 2-24-87, Cl. 315-159.000.

Yang, Tai-Her. Versatile clamping assembly for workbench or the like. 4,647,028, 3-3-87, Cl. 269-139.000.

Yang, Tai-Her. Extention cord charging device for connecting tools and appliances to plug receptacle in vehicle. 4,647,139, 3-3-87, Cl. 339-154.00A.

Yang, Tai-Her. Vise structure having articulatable vise jaws. 4,648,585, 3-10-87, Cl. 269-104.000.

Yang, Tai-Her. Speed wrench equipped with jaw auxiliary operational mechanism. 4,651,597, 3-24-87, Cl. 81-77.000.

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Yang, Tai-Her. Capacity-movement model AC inductive motor switch-changeover capacity-type speed control circuit. 4,670,699, 6-2-87, Cl. 318-814.000.

Yang, Tai-Her. Automotive charging system having generator with multiple windings and regulators. 4,677,365, 6-30-87, Cl. 322-90.000.

Yang, Tai-Her. Jack having the pneumatic air pump functions and using a common drive motor. 4,678,162, 7-7-87, Cl. 259-8.00B.

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Yang, Tai-Her. Force immune door latch. 4,679,420, 7-14-87, Cl. 70-422.000.

Yang, Tai-Her. Dumbbell with double cover hand protector and grasping training function. 4,681,315, 7-21-87, Cl. 272-122.000.

Yang, Tai-Her. Bench vise. 4,687,190, 8-18-87, Cl. 269-239.000.

Yang, Tai-Her. Sea-shipping system having serial float ball-shaped vehicles with fluid or powdered or pellet objects. 4,688,505, 8-25-87, Cl. 114-72.000.

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Yang, Tai-Her. Controlled fan. 4,689,533, 8-25-87, Cl. 318-281.000.

Yang, Tai-Her. C-clamp structure. 4,691,907, 9-8-87, Cl. 269-152.000.

Yang, Tai-Her. Ceiling fan. 4,692,096, 9-8-87, Cl. 416-170.00R.

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Yang, Tai-Her. Swivel canopy. 4,697,777, 10-6-87, Cl. 248-343.000.

Yang, Tai-Her. Pulley hoists. 4,697,790, 10-6-87, Cl. 254-332.000.

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Yang, Yin-Chiao: *See*—
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Moore, Jerry; and Yanglin, Dennis W., 4,637,082, Cl. 5-452.000.

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Ovshinsky, Stanford R.; Johnson, Robert R.; Cannella, Vincent D.; and Yaniv, Zvi, 4,646,266, Cl. 365-105.000.

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Cardullo, Mario; Caraluzzi, Mark; and Schildbach, Peter, 4,649,056, Cl. 426-509.000.

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White, Leo, 4,650,087, Cl. 220-86.0AT.
Yanko, John P., to Lipe Corporation. Heavy duty friction clutch. 4,662,498, 5-5-87, Cl. 192-70.290.
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Yankoff, Gerald K. Tool holder. 4,695,208, 9-22-87, Cl. 407-106.000.
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Nagakura, Katsuhiko, 4,693,218, Cl. 123-260.000.
Ohashi, Ryoichi; and Inaba, Hitoshi, 4,635,597, Cl. 123-276.000.
Yogome, Yoshihiro; Itsuki, Sheizi; Shimizu, Tokuzu; Shimizu, Tsutomu; and Hamada, Hisashi, 4,665,873, Cl. 123-373.000.
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Jen, You Y., 4,656,879, Cl. 74-102.000.
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Storace, Anthony; and Yannella, Albert V., 4,672,750, Cl. 29-199.00R.
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Yannich, Marie E.: *See*—
Walker, James L.; and Yannich, Marie E., 4,659,595, Cl. 427-392.000.
Yano, Hideaki: *See*—
Tateoka, Masamichi; and Yano, Hideaki, 4,682,316, Cl. 369-46.000.
Yamakawa, Tadashi; Inoue, Yutaka; Satomura, Hiroshi; and Yano, Hideaki, 4,651,176, Cl. 346-160.000.
Yano, Hideo; Kano, Kenichi; Ozawa, Hitoshi; Kato, Shinji; and Takagi, Yoshio, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Sliding surface of composite nickel-plated sliding member. 4,666,786, 5-19-87, Cl. 428-544.000.
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Yano, Kazuhiko; Ohtsuki, Kazuhiko; Awaya, Takao; and Yoshii, Gen, to Kanzaki Kokyukoki Mfg. Co., Ltd. Marine propulsion unit. 4,643,687, 2-17-87, Cl. 440-75.000.
Yano, Kazuhiko: *See*—
Yamaoka, Kojiro; Yano, Kazuhiko; and Ohtsuki, Kazuhiko, 4,679,673, Cl. 192-21.000.
Yano, Kazuo: *See*—
Yoshihara, Masashi; and Yano, Kazuo, 4,691,377, Cl. 455-256.000.
Yano, Kensaku: *See*—
Kon, Takao, Yano, Kensaku; Kakegawa, Masayuki; and Shibata, Hidenori, 4,688,098, Cl. 358-213.190.
Yano, Kohsaku: *See*—
Ohta, Yoshio; Chikamura, Takao; Miyata, Yutaka; Yano, Kohsaku; and Fujiwara, Shinji, 4,661,830, Cl. 357-30.000.
Yano, Koji: *See*—
Hoshikawa, Masao; Kyoto, Michihisa; Yano, Koji; and Tanaka, Gotaro, 4,693,738, Cl. 65-3.110.
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Yano, Masafumi: *See*—
Yamaguchi, Youko; Shimizu, Hiroshi; Tsuda, Ichiro; Yano, Masafumi; and Okumura, Tokiko, 4,710,964, Cl. 382-17.000.
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Noro, Takanobu; Koakutsu, Yasumasa; Takeuchi, Tamio; Yano, Masao; Onoda, Senichi; Arima, Hideo; Yokono, Hitoshi; and Tanei, Hirayoshi, 4,715,673, Cl. 350-96.200.
Yano, Miles K.: *See*—
Kelley, Anthony D.; Finley, James W.; Eachus, Vernon F.; Lim, Richard A.; and Yano, Miles K., 4,702,439, Cl. 244-158.00A.
Yano, Minoru, to Nippon Electric Co., Ltd. Device comprising a cam for coupling/decoupling magnetic heads relative to a flexible disk. 4,651,244, 3-17-87, Cl. 360-105.000.
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Kodama, Mikio; Ito, Akitoshi; Yano, Motoichi; Fujiwara, Takayoshi; and Umeyama, Satoshi, 4,705,827, Cl. 525-67.000.
Yano, Naomichi; Ito, Hajime; and Tanaka, Shigeru, to Kubota, Ltd. Heat accumulating material enclosing container and heat accumulating apparatus. 4,681,154, 7-21-87, Cl. 165-47.000.
Yano, Naomichi; Ueno, Tadatsugu; and Tsuboi, Shigeru, to Kubota Tekko Kabushiki Kaisha. Heat storage composition, latent heat storage capsules containing said heat-storage composition and temperature control apparatus using said capsules. 4,715,978, 12-29-87, Cl. 252-70.000.
Yano, Osamu; and Kitano, Takafumi, to Mitsui Toatsu Chemicals, Inc. Method for the treatment of digestive ulcers. 4,657,896, 4-14-87, Cl. 514-44.000.
Yano, Sadanari: *See*—
Todoroki, Yukio; Seto, Makoto; Yanagihara, Kimihiro; and Yano, Sadanari, 4,651,078, Cl. 318-798.000.
Yano, Satoshi, to Ricoh Company, Ltd. Facsimile apparatus. 4,704,636, 11-3-87, Cl. 358-280.000.
Yano, Seiki; Yamamoto, Saburo; Hayashi, Hiroshi; and Morimoto, Taiji, to Sharp Kabushiki Kaisha. Window VSIS semiconductor laser. 4,686,679, 8-11-87, Cl. 372-48.000.
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Hayakawa, Toshiro; Miyauchi, Nobuyuki; Yano, Seiki; and Suyama, Takahiro, 4,637,029, Cl. 372-45.000.
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Yano, Shozo, to Clean Chemical Co. Pipet cleaning apparatus. 4,649,946, 3-17-87, Cl. 134-57.00R.
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Kondo, Ryuji; Murayama, Jin; Shizukuishi, Makoto; Tamayama, Hiroshi; and Yano, Takashi, 4,668,990, Cl. 358-213.230.
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Higaya, Toshiaki; Ogura, Masaaki; Yano, Takato; Hashizume, Kiyozo; Ogawa, Toshiyuki; and Seko, Nachio, 4,640,608, Cl. 355-15.000.
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Yoshida, Shinichi; Higashi, Hidehiro; Yano, Takemithu; and Fuchikami, Jun, 4,668,649, Cl. 502-79.000.
Yano, Toshihide, to Toyota Jidosha Kabushiki Kaisha. Vehicle having adjustable suspension. 4,671,534, 6-9-87, Cl. 280-707.000.
Yano, Toshihiko; Takada, Yoji; Tomioka, Hiroki; and Hirata, Naonori, to Sumitomo Chemical Company, Limited. Trihaloimidazole insecticide. 4,689,340, 8-25-87, Cl. 514-399.000.
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Kisida, Hirosi; Yamamoto, Haruyasu; and Yano, Toshihiko, 4,663,339, Cl. 514-394.000.
Matsuo, Noritada; Tsushima, Kazunori; Nishida, Sumio; and Yano, Toshihiko, 4,714,712, Cl. 514-531.000.
Tomioka, Hiroki; Yano, Toshihiko; Takeda, Hisami; and Hirata, Naonori, 4,668,693, Cl. 514-399.000.
Tsushima, Kazunori; Matsuo, Noritada; Kisida, Hirosi; and Yano, Toshihiko, 4,664,698, Cl. 71-94.000.
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Matsumura, Hiromu; and Yano, Toshisada, 4,652,652, Cl. 548-194.000.
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Yanosy, John A., Jr.: *See*—
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Yansura, Daniel G.: *See*—
Kleid, Dennis G.; Yansura, Daniel G.; Heyneker, Herbert L.; and Miozzari, Giuseppe F., 4,663,283, Cl. 435-91.000.
Yant, Howard W., to Westinghouse Electric Corp. Loose parts filter. 4,634,525, 1-6-87, Cl. 210-171.000.
Yant, Howard W.: *See*—
Clark, Roy A., Jr.; and Yant, Howard W., 4,703,936, Cl. 277-1.000.
Yant, Robert M. Pavement patching vehicle. 4,676,689, 6-30-87, Cl. 404-110.000.
Yant, Robert M. Pavement patching vehicle. 4,704,046, 11-3-87, Cl. 404-109.000.
Yantsen, Ivan A.; Bekishev, Kenes K.; Savchak, Orest G.; Klok, Alexandr B.; Zhanabaev, Tolgat M.; Pakshtas, Mechislav-Valentinas K.; Glotov, Boris N.; Fink, Garold K.; Timkin, Alexel F.; Zorin, Nikolai

I.; and Bobylev, Leonid M. Hydropneumatic percussive tool. 4,658,913, 4-21-87, Cl. 173-134.000.
Yanus, John F.; and Limburg, William W., to Xerox Corporation. Process for preparing squaraines. 4,665,231, 5-12-87, Cl. 564-307.000.
Yanus, John F.: *See*—
Turner, S. Richard; and Yanus, John F., 4,714,779, Cl. 564-330.000.
Yao, Hiroyuki; and Okamoto, Yuji, to Toyota Jidosha Kabushiki Kaisha. Vehicle door structure. 4,691,476, 9-8-87, Cl. 49-374.000.
Yao, Keiji: *See*—
Katsura, Hiroo; Yao, Keiji; and Koyama, Kazuya, 4,658,270, Cl. 346-76.0PH.
Yao, Koji, to Dainippon Screen Mfg. Co., Ltd. Increasing precision of encoder output. 4,707,683, 11-17-87, Cl. 340-347.00P.
Yao, Koji: *See*—
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Yao, Raymond C.: *See*—
Hamill, Robert L.; and Yao, Raymond C., 4,683,201, Cl. 435-75.000.
Lee, May D.; Martin, John H.; Borders, Donald B.; Yao, Raymond C.; and Testa, Raymond T., 4,677,071, Cl. 435-253.000.
Yao, Samuel S.; and Hughes, Charles W., to McDonnell Douglas Helicopter Company. Flat strap cruciform flexure for helicopter rotor systems. 4,650,401, 3-17-87, Cl. 416-134.00A.
Yao, Samuel S.: *See*—
Head, Robert E.; and Yao, Samuel S., 4,695,227, Cl. 416-134.00A.
Yao, Shang J.; and Wolfson, Sidney K., Jr., to Montefiore Hospital Association of Western Pennsylvania. The Cyclic controlled electrolysis. 4,663,006, 5-5-87, Cl. 204-131.000.
Yao, Shi-Chune; and Ashgriz, Nasser, to Carnegie-Mellon University. Multi-orifice impulsed spray generator. 4,667,877, 5-26-87, Cl. 239-102.200.
Yao, Shi-Kay, to TRW Inc. Phased-array acousto-optic Bragg cell. 4,671,620, 6-9-87, Cl. 350-358.000.
Yaoi, Hideo: *See*—
Endoh, Koichi; Kaneko, Toshiyuki; Yaoi, Hideo; Aso, Seiji; Obana, Yasuo; and Takahama, Hideyuki, 4,661,151, Cl. 75-53.000.
Yaoita, Yuhei. Connector for reinforcing rods. 4,641,991, 2-10-87, Cl. 403-397.000.
Yaoka, Osamu: *See*—
Yamanaka, Tsutomu; and Yaoka, Osamu, 4,709,095, Cl. 564-253.000.
Yaotani, Kouichi; Nakada, Fumio; Tanaka, Takao; and Yoshida, Minoru, to Topura Co., Ltd. Threaded fastener. 4,637,767, 1-20-87, Cl. 411-411.000.
Yap, Raymond C. C.: *See*—
Bossaert, Bernard; Lepert, Andre; Lechat, Jacques; Hughes, Vincent L.; and Yap, Raymond C. C., 4,650,829, Cl. 525-99.000.
Lacoste, Olivier H. V.; De Regel, Alain; Fujiwara, Hidenori; and Yap, Raymond C. C., 4,690,958, Cl. 523-172.000.
Yapoujian, Nerses N., to Yapoujian, Nerses Nick. Surge protection device for gas tube. 4,707,762, 11-17-87, Cl. 361-124.000.
Yapoujian, Nerses Nick: *See*—
Yapoujian, Nerses N., 4,707,762, Cl. 361-124.000.
Yaqi, Hideo: *See*—
Teraji, Tsutomu; Kawada, Kazushige; Takeuchi, Toru; Sugita, Shinichi; Adachi, Toshikazu; and Yaqi, Hideo, 4,650,522, Cl. 106-314.000.
Yara, Calvin M.: *See*—
Butcher, William T.; Furlong, James J.; Howe, Dwayne E.; Snell, Gerald T.; and Yara, Calvin M., 4,679,117, Cl. 361-181.000.
Yarak, Dennis A.: *See*—
Hogeboom, John G.; Thomas, Terry N.; Yarak, Dennis A.; and Anderson, Arlan J., 4,650,930, Cl. 379-93.000.
Yarborough, John R.; and Dickinson, Dale F., to Itek Corporation. Acousto-optic chip rate detector. 4,652,817, 3-24-87, Cl. 324-77.00K.
Yarbro, Stanley K.: *See*—
Dong, Michael W.; Yarbro, Stanley K.; and Vandermark, Frank, 4,678,639, Cl. 422-81.000.
Yarbrough, Charles: *See*—
Rose, K. Daniel; Yarbrough, Charles; and Strachan, Alan F., 4,694,973, Cl. 221-46.000.
Yarbrough, Don L.: *See*—
Stroh, Clinton B.; and Yarbrough, Don L., 4,663,919, Cl. 56-11.200.
Yarbrough, J. W.: *See*—
Stanley, Frankie B., 4,662,194, Cl. 68-205.00R.
Stanley, Frankie B., 4,689,972, Cl. 68-20.000.
Yarbrough, Joseph A.; Kingsland, David O.; and Pease, Donald L., to Xerox Corporation. Thermal air curtain for a copying/printing machine. 4,693,588, 9-15-87, Cl. 355-3.00R.
Yarbrough, Kenneth N.: *See*—
Feder, Fred R.; Opsahl, Arthur W.; and Yarbrough, Kenneth N., 4,650,126, Cl. 241-22.000.
Yarbrough, Thomas R.; and Beasley, Larry M., to Motorola, Inc. Integrated circuit test site. 4,700,132, 10-13-87, Cl. 324-158.00F.
Yarbrough'o Machine Shop: *See*—
Reynaud, Gary L.; and Allcorn, Calbert, 4,701,092, Cl. 414-115.000.
Yarchoan, Robert: *See*—
Nelson, David; Biddison, William; Rubin, Laurence; Greene, Warner; Leonard, Warren; and Yarchoan, Robert, 4,707,443, Cl. 435-7.000.
Yard, Kenneth. Multipurpose boot for round-to-flat electrical cable. 4,708,664, 11-24-87, Cl. 439-471.000.
Yarden, Abraham L.: *See*—
Noe, Renato R., and Yarden, Abraham L., 4,702,308, Cl. 165-76.000.
Yardley, Alfred, to Lucas Industries Public Limited Company. Hydraulic anti-skid braking systems for vehicles. 4,648,664, 3-10-87, Cl. 303-115.000.
Yardley, Alfred; and Pickering, John F., to Lucas Industries Limited. Brake master cylinder. 4,694,651, 9-22-87, Cl. 60-578.000.
Yardley, John P.: *See*—
Kreft, Anthony F., III; Musser, John H.; Pattison, Thomas W.; and Yardley, John P., 4,661,596, Cl. 546-152.000.
Yardy, Raymond: *See*—
Bjorklund, Henry S.; Cisneros, Daniel N.; and Yardy, Raymond, 4,647,155, Cl. 350-252.000.
Cohen, Donald K.; and Yardy, Raymond, 4,694,447, Cl. 369-110.000.
Yarger, Ronald G.: *See*—
Barnett, Ronald E.; and Yarger, Ronald G., 4,642,240, Cl. 426-538.000.
Yarita, Ikuo; Kitahama, Masanori; and Sasaki, Toru, to Kawasaki Steel Corporation. Rolled plate sectional profile control rolling method and rolling mill. 4,703,641, 11-3-87, Cl. 72-247.000.
Yariv, Amnon: *See*—
Margalit, Shlomo; Yariv, Amnon; and Rav-Noy, Zeev, 4,636,823, Cl. 357-25.300.
Salzman, Joseph; Lang, Robert J.; and Yariv, Amnon, 4,674,096, Cl. 372-50.000.
Yarne, Andrew J.; and Burr, Eldon F., to Rockwell International Corporation. Vapor phase bonding for RF microstrip line circuits. 4,638,938, 1-27-87, Cl. 228-180.100.
Yarnell, Garrett D. Mechanical stoker. 4,665,840, 5-19-87, Cl. 110-113.000.
Yarnell, Ian R. Robot. 4,648,454, 3-10-87, Cl. 166-297.000.
Yarnell, Ian R., to I.P.D. Systems Limited. Device and method for removing irregularities in or enlarging an underground duct. 4,657,436, 4-14-87, Cl. 405-154.000.
Yarnold, Paul R.: *See*—
Vazquez, Hilario, Jr.; and Yarnold, Paul R., 4,695,053, Cl. 273-143.00R.
Yarranton, Arthur; Chase, Charles E., Jr.; and Picquendar, Jean E., to Raytheon Company. Temperature compensation circuitry. 4,639,697, 1-27-87, Cl. 333-155.000.
Yarumov, Kiril D.: *See*—
Todorov, Dimiter T.; Djudjev, Slavtcho G.; and Yarumov, Kiril D., 4,672,854, Cl. 73-861.330.
Yarus, Michael J.: *See*—
Squires, Charles H.; Heefner, Donald L.; Evans, Ronald J.; Kopp, Beatrice J.; and Yarus, Michael J., 4,690,897, Cl. 435-320.000.
Yarusso, Gerard F. Fishing lure. 4,662,100, 5-5-87, Cl. 43-42.370.
Yarwood, John C.: *See*—
Gaule, Gerhart K.; Yarwood, John C.; Ungarean, Gary L.; and Tyler, Derek E., 4,674,557, Cl. 164-467.000.
Yarza, Javier: *See*—
Arregui, Manuel; Diaz, Rafael; Gamon, Vicente; and Yarza, Javier, 4,645,428, Cl. 417-273.000.
Yasaburgo, Akagi; Yasumoto, Miura; and Tetsuo, Hoshino, to Takeda Chemical Industries, Ltd. Stable composition of gamma-interferon. 4,714,611, 12-22-87, Cl. 424-85.000.
Yasaitis, John A.: *See*—
Raffel, Jack I.; Yasaitis, John A.; and Chapman, Glenn B., 4,636,404, Cl. 427-53.100.
Yashiki, Ikuo: *See*—
Hashimoto, Hitoshi; Shibata, Takuzo; Nagano, Teruo; Hara, Kozo; Kuwahara, Nobuhiro; and Yashiki, Ikuo, 4,659,583, Cl. 426-629.000.
Yashiki, Seiji: *See*—
Higashi, Haruki; Yashiki, Seiji; Waki, Kouichirou; and Kikuchi, Toshiyuki, 4,640,394, Cl. 192-3.290.
Yashiki, Takatsuka: *See*—
Hirai, Shin-ichiro; Okada, Hiroaki; and Yashiki, Takatsuka, 4,659,696, Cl. 514-15.000.
Okada, Hiroaki; Ogawa, Yasuaki; and Yashiki, Takatsuka, 4,652,441, Cl. 424-19.000.
Okada, Hiroaki; Ogawa, Yasuaki; and Yashiki, Takatsuka, 4,711,782, Cl. 424-455.000.
Uda, Yoshiaki; Hirai, Shin-ichiro; and Yashiki, Takatsuka, 4,670,419, Cl. 514-16.000.
Yashiki, Yuichi, to Canon Kabushiki Kaisha. Electrophotographic photosensitive member having an intermediate layer of conductive powder and resin or oligimer. 4,657,835, 4-14-87, Cl. 430-60.000.
Yashima Chemical Industrial Co., Ltd.: *See*—
Kano, Toshio; Knodo, Masamichi; Ikeda, Tatsufumi; and Morikawa, Chiharu, 4,703,059, Cl. 514-493.000.
Takematsu, Tetsuo; Suzuki, Akinori; Toda, Kazuya; and Goto, Masuo, 4,685,962, Cl. 71-118.000.
Yashima, Michio; and Takahashi, Shuji, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle with an enclosed battery mounted to have a predetermined angular relation with respect to the body frame. 4,666,009, 5-19-87, Cl. 180-68.500.
Yashima, Michio; and Takahashi, Shuji, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle with an enclosed battery mounted to have a predetermined angular relation with respect to the body frame. 4,700,795, 10-20-87, Cl. 180-68.500.
Yashima, Tsuneaki, to Kawasaki Yucoh Co., Ltd. Press equipment with supporting and levelling apparatus for producing molding compound parts by compression. 4,648,823, 3-10-87, Cl. 425-150.000.

Yashiro, Hirokatsu: *See*—
Ohno, Jiro; and Yashiro, Hirokatsu, 4,641,036, Cl. 250-574.000.
Ohno, Jiro; and Yashiro, Hirokatsu, 4,641,083, Cl. 324-58.50B.

Yashiro, Sadao: *See*—
Washizuka, Syoichi; Watanabe, Masayuki; Yashiro, Sadao; and Nakanishi, Masae, 4,686,091, Cl. 422-249.000.
Watanabe, Masayuki; and Yashiro, Sadao, 4,668,481, Cl. 422-249.000.

Yashiro, Tsutomu; Kurihara, Mutsumu; and Togashi, Hiroshi, to Victor Company of Japan, Ltd. Magnetic recording medium. 4,699,840, 10-13-87, Cl. 428-328.000.

Yaskawa Electric Mfg. Co., Ltd.: *See*—
Nio, Satoru; Hamashima, Toyoji; and Sato, Shinobu, 4,677,276, Cl. 219-125.120.

Yasnovsky, Vacheslav M.: *See*—
Bhattacharjee, Shyam S.; Hull, Michael N.; and Yasnovsky, Vacheslav M., 4,702,807, Cl. 204-133.000.

Yassan, Reza M.: *See*—
Covarrubias, David S.; Yassan, Reza M.; Covarrubias, Maria S.; and Revuelta, Arturo, 4,706,973, Cl. 279-1.0SJ.

Yasuami, Shigeru: *See*—
Mikami, Hitoshi; Fukuda, Katsuyoshi; and Yasuami, Shigeru, 4,670,968, Cl. 29-576.00B.

Yasuda, Akira; Ikehira, Junko; Itoh, Kenji; Takasaki, Junsuke; and Tsunoyama, Kozou, to Kawasaki Steel Corporation. Cold rolled steel suitable for enamel coating and method for making, 4,670,065, 6-2-87, Cl. 148-2.000.

Yasuda, Akira; Akiyama, Kazuhisa; Nakao, Toshinari; and Yuasa, Hiroyoshi, to Matsushita Electric Works, Ltd. Individuality discriminating system. 4,703,347, 10-27-87, Cl. 358-102.000.

Yasuda, Akira: *See*—
Yuasa, Hiroyoshi; Yasuda, Akira; and Omura, Koichi, 4,679,077, Cl. 358-108.000.

Yasuda, Arthur K.; Kennedy, William S.; and Aronstam, Peter S., to Petrophysical Services, Inc. Borehole seismic receiver. 4,715,469, 12-29-87, Cl. 181-102.000.

Yasuda, Ataushi: *See*—
Sugisawa, Ko; Yamamoto, Masanori; Yasuda, Ataushi; Nomura, Yukihiro; and Amano, Toshio, 4,687,739, Cl. 435-69.000.

Yasuda, Eiichi: *See*—
Narita, Toshihide; Yamada, Masatoshi; and Yasuda, Eiichi, 4,675,827, Cl. 364-478.000.

Yasuda, Hirohiko: *See*—
Hirano, Masao; Kato, Mitsutaka; Yasuda, Hirohiko; and Hinoda, Seisuke, 4,710,033, Cl. 374-161.000.
Tsutsui, Osamu; Kuwahara, Hidehiko; and Yasuda, Hirohiko, 4,653,538, Cl. 137-625.460.

Yasuda, Hiroki: *See*—
Ohgami, Masaaki; Yasuda, Hiroki; and Kubota, Masaharu, 4,697,564, Cl. 123-440.000.

Yasuda, Hiromu: *See*—
Oguni, Kensaku; Ishibane, Kyuhei; Kuroda, Shigeaki; Yasuda, Hiromu; Sano, Takashi; and Etou, Hironori, 4,706,469, Cl. 62-222.000.

Yasuda, Hiroshi, to Ricoh Company, Ltd. Copier having a detachable photoreceptor unit. 4,668,072, 5-26-87, Cl. 355-3.00R.

Yasuda, Hiroshi, to Kabushiki Kaisha Toshiba. Signal transmission circuit in a semiconductor integrated circuit. 4,687,949, 8-18-87, Cl. 307-246.000.

Yasuda, Hiroshi; Ochii, Kiyofumi; and Masuoka, Fujio, to Kabushiki Kaisha Toshiba. CMOS hysteresis circuit with enable switch or natural transistor. 4,687,954, 8-18-87, Cl. 307-279.000.

Yasuda, Hiroshi; Ohnishi, Kanji; Yokoya, Satoshi; and Strom, Jon, to Sony Corporation. Selectively actuable electronic apparatus. 4,700,377, 10-13-87, Cl. 379-88.000.

Yasuda, Hiroshi: *See*—
Ito, Masashi; Yasuda, Hiroshi; Nakamura, Hiroyuki; and Matsuno, Toshiki, 4,646,283, Cl. 369-256.000.
Sugishima, Kenji; and Yasuda, Hiroshi, 4,684,315, Cl. 414-749.000.
Tsuruda, Mineo; Oe, Takanori; Kawasaki, Kazuyuki; Mikashima, Hiroshi; and Yasuda, Hiroshi, 4,661,603, Cl. 548-346.000.

Yasuda, Hirotsuga K., to University of Missouri. The Curators of the. Method of interiorly coating tubing. 4,692,347, 9-8-87, Cl. 427-40.000.

Yasuda, Hyo: *See*—
Mori, Kenzo; Yasuda, Hyo; and Suzuki, Minoru, 4,635,065, Cl. 342-435.000.

Yasuda, Isao; Yoshisato, Yorinobu; Yoshikawa, Hideki; and Taketa, Kazuhiko, to Sanyo Electric Co., Ltd. Twin head for electronic still camera and a method for making the same. 4,713,709, 12-15-87, Cl. 360-121.000.

Yasuda, Kazuhiko: *See*—
Sukigara, Motoyuki; and Yasuda, Kazuhiko, 4,696,439, Cl. 242-186.000.

Yasuda, Kazuo; Ando, Toshiharu; and Itabashi, Yoshifumi, to Mitsubishi Denki Kabushiki Kaisha. Epoxy resin composition. 4,677,144, 6-30-87, Cl. 523-456.000.

Yasuda, Kazuo; Ando, Toshiharu; Itabashi, Yoshifumi; and Tsuchihashi, Masaru, to Mitsubishi Denki Kabushiki Kaisha. Epoxy resin composition. 4,681,904, 7-21-87, Cl. 523-457.000.

Yasuda, Kazuo: *See*—
Ando, Toshiharu; Yasuda, Kazuo; Nogami, Fumio; and Tsuchihashi, Masaru, 4,647,605, Cl. 523-444.000.
Ando, Toshiharu; Yasuda, Kazuo; Itabashi, Yoshifumi; and Tsuchihashi, Masaru, 4,670,534, Cl. 528-100.000.
Itabashi, Yoshifumi; Ando, Toshiharu; Yasuda, Kazuo; and Tsuchihashi, Masaru, 4,652,597, Cl. 523-457.000.

Yasuda, Kazuyuki; and Suzuki, Sigeo, to Kabushiki Kaisha Toshiba. Sliding contact type ceramics article and a method for manufacturing the same. 4,703,021, 10-27-87, Cl. 501-87.000.

Yasuda, Keiji; Oda, Yukihisa; Hamajima, Shigemitsu; Ishii, Masami; Nakanishi, Katsumi; Tsuzuki, Takayoshi; and Tsuda, Jyou, to Aisin Seiki Kabushiki Kaisha. Rotary switch having rotary contacts with an amorphous alloy coating. 4,714,804, 12-22-87, Cl. 200-11.0DA.

Yasuda, Kiyoshi: *See*—
Nishino, Kenichi; Kobayashi, Atsuo; Higashi, Sachio; Yamamoto, Shinichiro; and Yasuda, Kiyoshi, 4,640,950, Cl. 524-265.000.

Yasuda, Makoto; Nishimura, Shuichi; and Ura, Syouzabu, to Nissan Motor Co., Ltd. Induction system for internal combustion engine. 4,715,329, 12-29-87, Cl. 123-52.0MV.

Yasuda, Makoto: *See*—
Ura, Syouzabu; Kikuchi, Tsutomu; and Yasuda, Makoto, 4,700,666, Cl. 123-52.0MB.
Ura, Syouzabu; Yasuda, Makoto; and Ooki, Yoshitaka, 4,712,532, Cl. 123-572.000.

Yasuda, Minoru: *See*—
Yuyama, Ichiro; Yamada, Mitsuho; Isono, Haruo; and Yasuda, Minoru, 4,704,627, Cl. 358-88.000.

Yasuda, Mitsuo: *See*—
Kubo, Seiji; Yasuda, Mitsuo; and Katata, Akihide, 4,667,074, Cl. 219-10.49R.

Yasuda, Nobuaki: *See*—
Ohkawa, Hideki; Ichihara, Katsutarou; Terashima, Yoshiaki; and Yasuda, Nobuaki, 4,666,759, Cl. 428-213.000.
Takeoka, Yoshikatsu; and Yasuda, Nobuaki, 4,647,947, Cl. 346-135.100.
Takeoka, Yoshikatsu; Ozawa, Norio; and Yasuda, Nobuaki, 4,663,008, Cl. 204-192.260.
Takeoka, Yoshikatsu; Ozawa, Norio; and Yasuda, Nobuaki, 4,702,991, Cl. 430-270.000.

Yasuda, Nobuyoshi: *See*—
Takaya, Takao; Yasuda, Nobuyoshi; Tsutsumi, Hideo; and Matsuda, Keiji, 4,656,160, Cl. 514-41.000.

Yasuda, Nobuyuki: *See*—
Takahashi, Satoshi; Tsutsumi, Akira; Suzuki, Junji; Kumakura, Hiroshi; Ito, Takao; Ohsawa, Kenji; Ikegami, Yuji; Haruki, Muneyuki; Yasuda, Nobuyuki; and Ohta, Masayuki, 4,677,252, Cl. 174-68.500.

Yasuda, Satoshi: *See*—
Ohguma, Hirotsugu; Harada, Mitsuo; Saura, Hideaki; and Yasuda, Satoshi, 4,689,970, Cl. 62-514.00R.

Yasuda, Setsuo: *See*—
Kawai, Keiichi; Yasuda, Setsuo; and Sakaime, Zenichiro, 4,669,149, Cl. 17-33.000.
Kawai, Keiichi; Yasuda, Setsuo; and Sakaime, Zenichiro, 4,696,079, Cl. 17/33.000.

Yasuda, Shigeari; and Kato, Suaao, to Sharp Kabushiki Kaisha. Ruled line data memory system in a word processing apparatus. 4,675,844, 6-23-87, Cl. 364-900.000.

Yasuda, Shigekazu, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Light-transmissible foreign object sensor. 4,676,638, 6-30-87, Cl. 356-237.000.

Yasuda, Shigekazu: *See*—
Kubota, Kazuhisa; and Yasuda, Shigekazu, 4,681,435, Cl. 356-71.000.

Yasuda, Shinichiro: *See*—
Morita, Hideaki; Kasuya, Takahira; Yamakawa, Goichi; Tomono, Makoto; and Yasuda, Shinichiro, 4,657,837, Cl. 430-109.000.

Yasuda, Syoichi; Tokuno, Akihira; Futada, Akihiko; Hayashi, Yoshiharu; Kobori, Kiyoshi; and Ishida, Takayoshi, to Sharp Kabushiki Kaisha. Solid state color imaging system employing separation of high and low frequency components of luminance during imaging. 4,700,220, 10-13-87, Cl. 358-44.000.

Yasuda, Syuhei; Ii, Hiroshi; and Sasada, Taizo, to Sharp Kabushiki Kaisha. Apparatus for recording and reproducing digital signals. 4,700,241, 10-13-87, Cl. 360-51.000.

Yasuda, Tadao; Kamio, Toru; and Sugimoto, Yoshiaki, to Tsubakimoto Chain Co. Frictional transmission chain. 4,643,703, 2-17-87, Cl. 474-242.000.

Yasuda, Takeru: *See*—
Ando, Tsuneo; Kasuya, Kazusato; Yasuda, Takeru; and Asada, Yukitoshi, 4,685,434, Cl. 123-438.000.

Yasuda, Takeshi: *See*—
Komuro, Matahiro; Kozono, Yuzo; Yasuda, Takeshi; Narishige, Shinji; Hanazono, Masanobu; and Kuroda, Tetsuro, 4,698,273, Cl. 428-635.000.
Naruki, Yukio; and Yasuda, Takeshi, 4,649,400, Cl. 346-76.0PH.

Yasuda, Tetsuo: *See*—
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,678,521, Cl. 148-11.50F.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, 4,689,091, Cl. 148-11.50F.

Yasuda, Tomio; and Hashimoto, Akio, to Aisin Seiki Kabushiki Kaisha. Electric power steering equipment. 4,674,588, 6-23-87, Cl. 180-142.000.

Yasuda, Tomio: *See*—
Hashimoto, Akio; and Yasuda, Tomio, 4,667,759, Cl. 180-79.100.
Okamura, Hisanori; Miyazaki, Kunio; Akiyama, Hiroshi; Itoh, Shinichi; Yasuda, Tomio; Nakamura, Kousuke; Okoshi, Yukio; Kamoshita, Mutuo; and Chiba, Akio, 4,690,793, Cl. 376-136.000.

Yasuda, Tooru: *See*—
Nishiwaki, Mitsuo; Amano, Tooru; Yasuda, Tooru; Okubo, Sakae; and Mukawa, Naoki, 4,688,233, Cl. 375-58.000.

Yasuda, Toshio: *See*—
Hasegawa, Katsumi; Yasuda, Toshio; and Shimada, Kouji, 4,674,694, Cl. 242-43.00R.

Yasuda, Wataru: *See*—
Kanno, Fuchio; Kobayashi, Kazuo; Sakamoto, Koji; Kaneko, Toshio; and Yasuda, Wataru, 4,656,964, Cl. 118-648.000.
Sakamoto, Koji; Kaneko, Toshio; Kanno, Fuchio; and Yasuda, Wataru, 4,674,439, Cl. 118-657.000.

Yasuda, Yasushi: *See*—
Enomoto, Hiromu; Yasuda, Yasushi; Tahara, Akinori; and Kumagai, Masao, 4,703,202, Cl. 307-443.00A.
Tahara, Akinori; Enomoto, Hiromu; and Yasuda, Yasushi, 4,680,600, Cl. 357-15.000.

Yasuda, Yoshinori: *See*—
Asano, Kazuhiko; Takezoe, Osamu; Yasuda, Yoshinori; Hayashi, Kenji; Aoki, Masanobu; Doi, Yoshio; and Shimata, Makoto, 4,648,918, Cl. 148-439.000.

Yasuda, Yukihiro; Yoshioka, Hiroshi; and Takahashi, Takao, to Sony Corporation. Tracking controlling apparatus. 4,658,309, 4-14-87, Cl. 360-77.000.

Yasuda, Yukio; and Masuda, Nobuhito, to Fuji Photo Film Co., Ltd. Integral element for biological reaction and process for the preparation thereof. 4,657,739, 4-14-87, Cl. 422-56.000.

Yasue, Hideki; and Fukumura, Kagenori, to Toyota Jidosha Kabushiki Kaisha. Hydraulic shift controller for an automatic transmission having a first and second section. 4,700,591, 10-20-87, Cl. 74-868.000.

Yasue, Hideki; and Fukumura, Kagenori, to Toyota Jidosha Kabushiki Kaisha. Hydraulic control system in an automatic transmission for a vehicle. 4,709,597, 12-1-87, Cl. 74-868.000.

Yasue, Kazuo; Nishio, Toshiyuki; and Kosaka, Mineo, to Agency of Industrial Science & Technology; and Ministry of International Trade & Industry. Method and apparatus for production of minute metal powder. 4,671,906, 6-9-87, Cl. 264-9.000.

Yasue, Masahiro: *See*—
Niwa, Yoshiyuki; Kashiwagi, Masahiro; Yasue, Masahiro; Bandoh, Shunichi; Kakinuma, Asao; and Wakatsuki, Tadashi, 4,676,720, Cl. 416-134.00A.

Yasue, Toshikazu: *See*—
Kitazume, Yoshiaki; Yasue, Toshikazu; Ohira, Eiji; Endo, Takeyuki; and Asou, Satoshi, 4,672,668, Cl. 381-43.000.

Yasufuku, Yoshitaka; Nara, Masaji; and Akutsu, Shigeru, to Konishiroku Photo Industry Co., Ltd. Magnetic recording medium. 4,652,496, 3-24-87, Cl. 428-425.900.

Yasufuku, Yoshitaka; Nara, Masaji; and Akutsu, Shigeru, to Konishiroku Photo Industry Co., Ltd. Magnetic recording medium. 4,684,572, 8-4-87, Cl. 428-323.000.

Yasufuku, Yoshitaka: *See*—
Yamauchi, Yasuhisa; Asano, Masao; Anzai, Hideyuki; and Yasufuku, Yoshitaka, 4,710,427, Cl. 428-407.000.

Yasuga, Masaki. Tile-cutting machine. 4,693,232, 9-15-87, Cl. 125-23.00T.

Yasuhara, Hiroshi: *See*—
Itou, Shouichi; Kaneko, Makoto; and Yasuhara, Hiroshi, 4,644,395, Cl. 358-111.000.
Kaneko, Makoto; Ogura, Ichiro; Asahina, Hiroshi; and Yasuhara, Hiroshi, 4,688,175, Cl. 364-414.000.

Yasuhara, Masahiro: *See*—
Hayashi, Yukichi; Itako, Eiji; and Yasuhara, Masahiro, 4,654,800, Cl. 364-479.000.
Hayashi, Yukichi; Itako, Eiji; and Yasuhara, Masahiro, 4,679,150, Cl. 364-479.000.

Yasuhara, Seishi; Hagiwara, Mitsuo; Inoue, Kazuo; Fujimori, Kyoichi; Sekiguchi, Akira; and Okada, Hiroshi, to Diesel Kiki Co., Ltd. Apparatus for controlling fuel injection timing in a fuel injection pump. 4,638,782, 1-27-87, Cl. 123-502.000.

Yasuhara, Seishi; Kobayashi, Hiroshi; Kita, Toru; and Saito, Hideyuki, to Nissan Motor Co., Ltd. Oil deterioration detector method and apparatus. 4,646,070, 2-24-87, Cl. 340-603.000.

Yasuhara, Seishi, to Nissan Motor Company, Ltd. Apparatus for controlling a power supply to a glow plug for a vehicular diesel engine. 4,671,224, 6-9-87, Cl. 123-145.00A.

Yasuhara, Seishi: *See*—
Ichikawa, Sadao; Yokoi, Shinichi; Yasuhara, Seishi; and Kondo, Hiroshi, 4,635,594, Cl. 123-179.0BG.
Yokoi, Shinichi; Itoh, Tsuneo; Yasuhara, Seishi; and Kondo, Hiroshi, 4,661,686, Cl. 219-270.000.

Yasuhara, Takashi: *See*—
Ohmori, Akira; Yasuhara, Takashi; Izutani, Naoaki; and Ueda, Yasufumi, 4,644,043, Cl. 526-246.000.
Yamamoto, Fumio; Suzuki, Takayoshi; Ikari, Masahiro; Saito, Susumu; Ohmori, Akira; and Yasuhara, Takashi, 4,684,705, Cl. 526-246.000.

Yasuhara, Yukihiko, to Alps Electric Co., Ltd. Drive coil wiring structure for brushless motor. 4,636,677, 1-13-87, Cl. 310-194.000.

Yasuhiro, Kawai: *See*—
Tamura, Kaoru; Yasuhiro, Kawai, and Utsumi, Isao, 4,678,180, Cl. 271-296.000.

Yasuhiro, Miki, to Brother Industries, Ltd. Ribbon feed system of combined printer. 4,639,880, 1-27-87, Cl. 364-519.000.

Yasuho, Takeo: *See*—
Kaiwa, Ryoichi; Suganuma, Yuichiro; and Yasuho, Takeo, 4,670,633, Cl. 200-314.000.

Yasui, Eizo: *See*—
Masui, Takeshi; Yasui, Eizo; and Matsuda, Yukio, 4,658,620, Cl. 72-234.000.

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Yasui, Hideo, to Tokyo Juki Industrial Co., Ltd. Control device for sewing machine. 4,693,192, 9-15-87, Cl. 112-121.110.

Yasui, Hiroyoshi; and Yoshida, Teruo, to Koyo Seiko Co., Ltd. Sealed rolling bearing with a flow reducing grease passage. 4,655,617, 4-7-87, Cl. 384-465.000.

Yasui, Hiroyoshi; Yoshida, Teruo; Komiya, Hiroshi; Oguchi, Toshitaro; and Okamura, Seiji, to Koyo Seiko Co., Ltd.; and Nippon Grease Co., Ltd. Diurea type grease composition. 4,668,411, 5-26-87, Cl. 252-51.50A.

Yasui, Kazuomi: *See*—
Saito, Junichi; Yasui, Kazuomi; Shiokawa, Kozo; and Kamochi, Atsumi, 4,659,370, Cl. 71-98.000.

Yasui, Ken K.; Williams, Neil R.; Ecklund, Richard C.; Hayase, Masashi; and Walkington, Robert J., to McDonnell Douglas Corporation. Volume control superplastic forming. 4,708,008, 11-24-87, Cl. 72-60.000.

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Yasui, Masaru: *See*—
Suda, Fumiyuki; Yasui, Masaru; and Miyamoto, Kazuhiro, 4,686,165, Cl. 430-69.000.

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Yasui, Seimei: *See*—
Hanabata, Makoto; Furuta, Akihiro; Yasui, Seimei; and Tanaka, Kunihiko, 4,696,886, Cl. 430-192.000.

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Yasui, Shinichiro: *See*—
Tagami, Katsutoshi; Takahashi, Tsuneo; Yasui, Shinichiro; and Sugimura, Masao, 4,663,629, Cl. 340-995.000.

Yasui, Sunao: *See*—
Ohnuki, Hidebumi; Asano, Toshiaki; Atarashi, Takashi; and Yasui, Sunao, 4,668,332, Cl. 156-630.000.

Yasui, Tokumasa: *See*—
Tanimura, Nobuyoshi; and Yasui, Tokumasa, 4,712,192, Cl. 365-51.000.

Yasui, Toru, to Nippon Thompson, Co. Ltd. Crossed-roller retainer. 4,697,935, 10-6-87, Cl. 384-47.000.

Yasui, Yasuyoshi; and Hori, Hiroshi, to Toyota Jidosha Kabushiki Kaisha. Final reduction gear apparatus. 4,658,670, 4-21-87, Cl. 74-710.000.

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Kouichi, Maeda; Masaaki, Funaki; Motoaki, Yoshida; and Yasuji, Ohtsuka, 4,689,000, Cl. 425-67.000.

Yasukawa, Akio; and Misuna, Yoshihiro, to Katsura Roller Mfg. Co. Ltd. Antistatic cover. 4,672,825, 6-16-87, Cl. 66-194.000.

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Yasukawa, Jun-ichi: *See*—
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Yasukawa, Kazuyoshi, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Lifting head of swivel arm of assembly robot. 4,637,771, 1-20-87, Cl. 414-590.000.

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Yasukawa, Kenichiro: *See*—
Yoshio, Junichi; Hirano, Toshio; Yasukawa, Kenichiro; and Yoshida, Masayuki, 4,642,812, Cl. 381-1.000.

Yasukawa, Masao; and Taguchi, Yukiyasu, to Toyota Jidosha Kabushiki Kaisha. Gear assembly adapted for mating with a third gear without backlash. 4,640,147, 2-3-87, Cl. 74-409.000.

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Yasukawa, Masao, to Toyota Jidosha Kabushiki Kaisha. Cylinder head with inwardly projecting cup plug in casting sand extraction hole for speeding up coolant flow. 4,690,104, 9-1-87, Cl. 123-41.320.

Yasukawa, Takemasa; Sugita, Hiroshi; Aritake, Masanori; and Hayashi, Keizo, to Toyoda Gosei Co., Ltd. Wiper blade. 4,669,144, 6-2-87, Cl. 15-250.360.

Yasukawa, Takemasa: *See*—
Sugita, Hiroshi; Iwasa, Tadanobu; Yasukawa, Takemasa; and Aritake, Masanori, 4,638,525, Cl. 15-250.360.
Sugita, Hiroshi; Yasukawa, Takemasa; and Aritake, Masanori, 4,658,463, Cl. 15-250.360.

Yasuki, Ryuichi; and Sahara, Toshitsugu, to Kiribai Chemical Industry Co., Ltd. Exothermic composition. 4,649,895, 3-17-87, Cl. 126-263.000.

Yasumiishi, Calvin K. Visual tip. 4,709,500, 12-1-87, Cl. 43-24.000.

Yasumoto, Hidetoshi; and Tanimoto, Tetsuyuki, to Minolta Camera Kabushiki Kaisha. Light source for a color enlargement. 4,640,609, 2-3-87, Cl. 355-37.000.

Yasumoto, Hidetoshi: *See*—
Yuasa, Yoshio; Yasumoto, Hidetoshi; Naruse, Kazuhiko; Kawagoe, Nobukazu; and Inaba, Masahito, 4,704,025, Cl. 355-38.000.

Yasumoto, Hiromi: *See*—
Suzuki, Hirosuke; Yasumoto, Hiromi; and Umemoto, Hiroshi, 4,639,693, Cl. 333-1.000.

Yasumoto, Kunio: *See*—
Yamada, Tsuneo; Sakashita, Tsutomu; Tomono, Hiroshi; Kimura, Takashi; Maehara, Yasuhiro; and Yasumoto, Kunio, 4,709,572, Cl. 72-366.000.

Yasumoto, Mitsugi: *See*—
Koda, Akihide; Hori, Mikio; Yasumoto, Mitsugi; Matsuura, Naosuke; Yamawaki, Ichiro; and Tada, Yukio, 4,670,583, Cl. 562-426.000.
Yamawaki, Ichiro; Ogawa, Kazuo; Ono, Naohiko; Honna, Takaji; Nagayama, Sekio; and Yasumoto, Mitsugi, 4,696,929, Cl. 514-253.000.

Yasumoto, Miura: *See*—
Yasaburgo, Akagi; Yasumoto, Miura; and Tetsuo, Hoshino, 4,714,611, Cl. 424-85.000.

Yasumoto, Seiichi: *See*—
Tomizawa, Hiroshi; Okada, Masakazu; Yasumoto, Seiichi; Mizokawa, Sadao; Fushimi, Hitoshi; Onuki, Ken; Takahashi, Masahiro; and Hamada, Takuji, 4,704,714, Cl. 370-15.000.

Yasumune, Masaru: *See*—
Kawaguchi, Masashi; and Yasumune, Masaru, 4,640,081, Cl. 53-510.000.

Yasumura, Hiroto; Kozuki, Susumu; and Takei, Masahiro, to Canon Kabushiki Kaisha. Reproducing device for frequency modulated signals. 4,692,914, 9-8-87, Cl. 369-49.000.

Yasumura, Jiro: *See*—
Koga, Yasuharu; Yasumura, Jiro; and Nagano, Mitsuo, 4,662,942, Cl. 106-90.000.

Yasumura, Takashi; Koishi, Toshio; and Tanaka, Isao, to Central Glass Company, Limited. Polyvinylidene fluoride base blend polymer. 4,642,326, 2-10-87, Cl. 525-153.000.

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Koishi, Toshio; Tanaka, Isao; Yasumura, Takashi; and Nishikawa, Yukitoshi, 4,687,295, Cl. 350-96.340.

Yasumuro, Hisakazu: *See*—
Matsuno, Kenji; Yasumuro, Hisakazu; Taira, Kazuo; Imatani, Tsuneo; and Toyoshima, Makoto, 4,685,989, Cl. 156-244.130.

Yasunaga Engineering Kabushiki Kaisha: *See*—
Shimizu, Hiroshi, 4,640,259, Cl. 125-16.00R.

Yasunaga, Makoto; and Kon, Yasuhiro, to Citizen Watch Co., Ltd. Printing mechanism for an impact matrix printer. 4,674,896, 6-23-87, Cl. 400-124.000.

Yasunaga, Makoto: *See*—
Ikehata, Tsutomu; Masuda, Katsuya; Yasunaga, Makoto; and Michioto, Takao, 4,687,355, Cl. 400-124.000.
Moriya, Takashi; Yasunaga, Makoto; Ueda, Masahiko, and Yamamoto, Tetsuya, 4,647,236, Cl. 400-124.000.

Yasunaga, Satoshi, to NEC Corporation. Speech detector capable of avoiding an interruption by monitoring a variation of a spectrum of an input signal. 4,688,256, 8-18-87, Cl. 381-46.000.

Yasunaga, Seiji: *See*—
Murakami, Hidenobu; and Yasunaga, Seiji, 4,684,782, Cl. 219-121.0EA.

Yasunaga, Soichiro, to Riken Denshi Co. Ltd. Multiple function type D/A converter. 4,636,772, 1-13-87, Cl. 340-347.0DA.

Yasunaga, Suezaki, to Kaisei Kogyo Corporation. Metnod of pruning tree and tree pruning machine. 4,633,925, 1-6-87, Cl. 144-343.000.

Yasunaga, Tadashi; Yanai, Akio; and Shirahata, Ryuji, to Fuji Photo Film Co., Ltd. Process for producing magnetic recording material. 4,702,938, 10-27-87, Cl. 427-132.000.

Yasunaga, Tadashi, and Shirahata, Ryuji, to Fuji Photo Film Co., Ltd. Manufacturing method for a magnetic recording medium. 4,713,262, 12-15-87, Cl. 427-130.000.

Yasunaga, Tadashi: *See*—
Shirahata, Ryuji; Arai, Yoshihiro; and Yasunaga, Tadashi, 4,673,610, Cl. 428-213.000.

Yasunaga, Takayuki: *See*—
Isshiki, Tomiya; Kijima, Yasuhiko; Miyauchi, Yuh; and Yasunaga, Takayuki, 4,659,865, Cl. 560-232.000.

Yasunaga, Yutaka: *See*—
Yamamoto, Yoshun; Okubo, Hitoshi; Watanabe, Yutaka; Uchiyama, Eizo; and Yasunaga, Yutaka, 4,697,446, Cl. 72-178.000.

Yasunaka, Shinsaku, to Matsushita Electric Works, Ltd. Dynamically balanced apparatus having reciprocating member. 4,660,283, 4-28-87, Cl. 30-43.920.

Yasunami, Masabumi; Takase, Kahei; Shinji, Akira; Mimura, Toru; Torii, Kunio; Kobayashi, Takaaki; Okutsu, Masaru; and Meguro, Takashi, to Ajinomoto Co., Inc. Azulene derivatives and their use as hypocholesterolemics. 4,656,194, 4-7-87, Cl. 514-693.000.

Yasunao, Miura: *See*—
Yukihisa, Takeuchi; Yasunao, Miura; and Tsukasa, Hirayama, 4,656,832, Cl. 60-303.000.

Yasuno, Hiroshi: *See*—
Nakano, Tsunetomo; Yasuno, Hiroshi; and Nishio, Kazuaki, 4,673,773, Cl. 174-68.500.

Yasunobu, Chizuko: *See*—
Watanabe, Toshinori; Sasaki, Koji; Yasunobu, Chizuko; Iizuka, Yumiko; Nagai, Yoshiaki; Yamanaka, Toshiro; Yamakoshi, Minoru; and Tanaka, Takashi, 4,700,317, Cl. 364-488.000.

Yasunobu, Isamu: *See*—
Shibata, Nobuho; Yasunobu, Isamu; Neki, Shigeo; Ohara, Kenichi; and Dohi, Takashi, 4,682,095, Cl. 318-778.000.

Yasunobu, Kojima: *See*—
Nobuo, Kawahigashi; Shigesou, Hashida; and Yasunobu, Kojima, 4,710,331, Cl. 264-41.000.

Yasunobu, Nakayama: *See*—
Masuoka, Norio; and Yasunobu, Nakayama, 4,667,266, Cl. 361-212.000.

Yasuo, Nakano; Fukami, Kazuaki; and Nishimoto, Yukimasa, to Honda Giken Kogyo Kabushiki Kaisha. Brake device for motor vehicles. 4,703,839, 11-3-87, Cl. 188-346.000.

Yasuoka, Akimasa; Iwata, Takahiro; and Kiuchi, Takeo, to Honda Giken Kogyo Kabushiki Kaisha. Method for controlling the supply of fuel for an internal combustion engine. 4,633,839, 1-6-87, Cl. 123-488.000.

Yasuoka, Akimasa; and Kiuchi, Takeo, to Honda Giken Kogyo Kabushiki Kaisha. Apparatus for controlling the supply of fuel to an internal combustion engine. 4,635,607, 1-13-87, Cl. 123-479.000.

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Yasuoka, Akimasa; and Kiuchi, Takeo, to Honda Giken Kogyo Kabushiki Kaisha. Method for controlling air/fuel ratio of fuel supply for an internal combustion engine. 4,646,699, 3-3-87, Cl. 123-489.000.

Yasuoka, Akimasa; and Kiuchi, Takeo, to Honda Giken Kogyo Kabushiki Kaisha. Method of controlling intake air quantity for internal combustion engines at idle. 4,649,877, 3-17-87, Cl. 123-339.000.

Yasuoka, Akimasa, to Honda Giken Kogyo Kabushiki Kaisha. Method for controlling air/fuel ratio. 4,683,857, 8-4-87, Cl. 123-478.000.

Yasuoka, Akimasa, to Honda Giken Kogyo Kabushiki Kaisha. Fuel injection timing control method for internal combustion engines. 4,697,568, 10-6-87, Cl. 123-490.000.

Yasuoka, Akimasa, to Honda Giken Kogyo Kabushiki Kaisha. Air-fuel ratio control method for internal combustion engines. 4,699,111, 10-13-87, Cl. 123-489.000.

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Yasuoka, Akimasa, to Honda Giken Kogyo Kabushiki Kaisha. Method for controlling air/fuel ratio. 4,702,213, 10-27-87, Cl. 123-480.000.

Yasuoka, Hideki; Tanizaki, Yasunobu; Muramatsu, Akira; and Anzai, Norio, to Hitachi, Ltd. Method of manufacturing a semiconductor integrated circuit device. 4,662,057, 5-5-87, Cl. 29-571.000.

Yasuoka, Hirotoshi, to Mitsubishi Denki Kabushiki Kaisha. Articulated robot. 4,655,675, 4-7-87, Cl. 414-735.000.

Yasuoka, Junichi; Kamiyama, Sumio; Ashida, Kiyomi; and Hata, Ryozo, to Awamura Metal Industry Co., Ltd. Spray micropellets. 4,678,511, 7-7-87, Cl. 75-251.000.

Yasuoka, Nobuyuki, to NEC Corporation. Output buffer in which inductive noise is suppressed. 4,661,928, 4-28-87, Cl. 365-189.000.

Yasuoka, Toshio, to Teijin Limited. Carpet having bottom portions of pile covered with carbon black containing resin. 4,683,158, 7-28-87, Cl. 428-95.000.

Yasuoka, Yuji: *See*—
Imai, Yoshikiyo; and Yasuoka, Yuji, 4,673,908, Cl. 335-79.000.

Yasuro Ito and Taisei Corporation: *See*—
Ito, Yasuro; Higuchi, Yoshiro; Shiki, Takeshi; Tsuji, Yukikazu; Tsuji, Masanori; and Hayakawa, Mitsutaka, 4,715,719, Cl. 366-2.000.

Yasushi, Mikura; Kensuke, Asada; and Hajime, Toguchi, to Takeda Chemical Industries. Stable composition of interleukin-2 and albumin. 4,645,830, 2-24-87, Cl. 530-351.000.

Yasutake, Nobuyuki; and Tsuda, Toshitaka, to Fujitsu Limited. Device for complementary input signals using two circuits with different threshold voltages. 4,651,033, 3-17-87, Cl. 307-494.000.

Yasutomi, Tsuyoshi: *See*—
Nishiguchi, Yasuo; Yasutomi, Tsuyoshi; and Shiraishi, Ryoichi, 4,691,210, Cl. 346-76.0PH.
Nishiguchi, Yasuo; Yasutomi, Tsuyoshi; and Shiraishi, Ryoichi, 4,698,643, Cl. 346-76.0PH.

Yasutomo, Yuichi: *See*—
Ogaki, Hirokazu; Yasutomo, Yuichi; Kato, Yoshibumi; Kato, Tatsuo; and Suzuki, Takamitsu, 4,677,565, Cl. 364-479.000.

Yasuzawa, Tohru: *See*—
Kase, Hiroshi; Matsuda, Yuzuru; Kawamoto, Isao; Asano, Kozo; Shirahata, Kunikatsu; Yasuzawa, Tohru; and Yamada, Koji, 4,692,310, Cl. 424-122.000.

Yata, Kiyoshi; and Sawada, Hideo, to Hitachi, Ltd. System for detecting access to storage. 4,641,277, 2-3-87, Cl. 364-900.000.

Yata, Yukio; and Suzuki, Shingo, to Mitsubishi Rayon Co., Ltd. Rear projection screen. 4,674,836, 6-23-87, Cl. 350-128.000.

Yata, Yukio; and Suzuki, Shingo, to Mitsubishi Rayon Co., Ltd. Rear projection screen. 4,708,435, 11-24-87, Cl. 350-129.000.

Yatabe, Fumio; and Wazaki, Yoshio, to Honda Giken Kogyo Kabushiki Kaisha. Air-fuel ratio control method for internal combustion engines. 4,694,805, 9-22-87, Cl. 123-489.000.

Yatabe, Shigeru: *See*—
Akiyama, Junichi; Chiba, Shu; Sawazaki, Norikazu; and Yatabe, Shigeru, 4,677,512, Cl. 360-110.000.

Yatabe, Tadasu: *See*—
Yatabe, Yoshio; and Yatabe, Tadasu, 4,668,046, Cl. 350-117.000.

Yatabe, Toshiaki; Nishihara, Toshio; and Suzuki, Nobuo, to Teijin Limited. Optical laminar structure. 4,639,069, 1-27-87, Cl. 350-1.700.

Yatabe, Yoshio; and Yatabe, Tadasu, to YUP Company, Ltd. Transmission type screen apparatus. 4,668,046, 5-26-87, Cl. 350-117.000.

Yatagai, Shigeo: *See*—
Banno, Haruhiko; and Yatagai, Shigeo, 4,710,771, Cl. 340-811.000.

Yater, Jerry L., to Force Control Industries, Inc. Clutch-brake unit with improved oil pump impellers. 4,648,494, 3-10-87, Cl. 192-18.00A.

Yates, Anthony, to Lucas Electrical Electronics & Systems Ltd. Oxygen sensor. 4,677,414, 6-30-87, Cl. 338-34.000.

Yates, Chester R.; and Bruner, Maurice M., to Leggett & Platt, Incorporated. Box spring assembly with modular twin continuous spring elements. 4,704,752, 11-10-87, Cl. 5-247.000.

Yates, David E.; and Dack, Stuart W., to ICI Australia Limited. Emulsion explosive composition. 4,710,248, 12-1-87, Cl. 149-21.000.

Yates, David E.: *See*—
Curtin, David J.; and Yates, David E., 4,676,849, Cl. 149-2.000.

Yates, Donald N., Jr., to Halliburton Company. Downhole recorder for use in wells. 4,660,638, 4-28-87, Cl. 166-250.000.

Yates, Donald N., Jr.: *See*—
Colle, Edward A., Jr.; Yates, Donald N., Jr.; and Brieger, Emmet F., 4,702,168, Cl. 102-313.000.

Yates, George H.: *See*—
Snyder, Leon T.; Scarfone, Frank A.; Reuss, James L.; Campen, George V.; and Yates, George H., 4,686,999, Cl. 128-716.000.

Yates, Jack: *See*—
Patterson, John F.; MacDuff, Robert B.; and Yates, Jack, 4,708,846, Cl. 376-444.000.

Yates, James R.: *See*—
Uzgiris, Egidijus E.; and Yates, James R., 4,668,584, Cl. 428-408.000.

Yates, Jan B.; and Lubbers, Lawrence M., to Danninger Medical Technology, Inc. Hand exerciser. 4,644,938, 2-24-87, Cl. 128-26.000.

Yates, Jan B.: *See*—
Funk, Daniel A.; and Yates, Jan B., 4,651,719, Cl. 128-25.00R.

Yates, John T., Jr.; Griffin, Gregory L.; and Kiskinova, Maya. Temperature programmed spectroscopy techniques. 4,663,297, 5-5-87, Cl. 436-147.000.

Yates, Kenneth H., to Sargent Oil Well Equipment Company of Dover Resources, Incorporated. Motor protection system and process. 4,695,779, 9-22-87, Cl. 318-484.000.

Yates, Larry A. Heating device for use with asphalt pavement resurfacing equipment. 4,711,600, 12-8-87, Cl. 404-95.000.

Yates, Mark: *See*—
Vickery, Earl; and Yates, Mark, 4,661,056, Cl. 431-5.000.

Yates, Michael J.: *See*—
Hull, Alan; and Yates, Michael J., 4,712,454, Cl. 81-3.270.

Yates, Ronald L.: *See*—
Wang, Pen C.; Stuart, Van I. W.; Yates, Ronald L.; and Crain, Steven P., 4,691,021, Cl. 548-309.000.

Yates, Roy E. Protective apparatus for artists. 4,685,644, 8-11-87, Cl. 248-118.300.

Yates, Samuel L.; Peckinpaugh, Frank L.; Flower, Thomas A.; and Westmoreland, Michael K., to Allied Corporation. Chilled yarn guide. 4,644,621, 2-24-87, Cl. 28-247.000.

Yates, Stephen F.; and Johnson, Kim L., to Garrett Corporation, The. Separation of metallic lithium. 4,655,828, 4-7-87, Cl. 75-97.00A.

Yates, Stephen W.: *See*—
Clough, Douglas O.; and Yates, Stephen W., 4,698,961, Cl. 57-405.000.

Yato, Tokuhiro; and Tsutsumi, Yoshio, to Kabushiki Kaisha Komatsu Seisakusho. Monitoring apparatus for a construction machine. 4,644,334, 2-17-87, Cl. 340-679.000.

Yatomi, Takeshi: *See*—
Ozaki, Yoshio; Tsurumoto, Kazuo; Yatomi, Takeshi; and Yamamoto, Masahiro, 4,695,696, Cl. 219-69.00P.
Yamamoto, Masahiro; and Yatomi, Takeshi, 4,698,476, Cl. 219-69.00W.

Yats, Larry D.; and Wessling, Ritchie A., to Dow Chemical Company, The. Method for preparing random-fiber thermoset composites. 4,654,100, 3-31-87, Cl. 156-246.000.

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Shaw, Ken M.; Wessling, Ritchie A.; Yats, Larry D.; and Yalvac, Selim, 4,643,940, Cl. 428-308.400.

Yatsko, Lawrence T.: *See*—
Kelly, Robert D.; and Yatsko, Lawrence T., 4,642,854, Cl. 24-265.00R.

Yatsu, Tadao; Ishimaru, Etsuji; and Miura, Kimiyoshi, to Mitsui Petrochemical Industries, Ltd. Polyhydroxy polyether, process for its production, and its use. 4,675,373, 6-23-87, Cl. 528-103.000.

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Yatsuda, Yuji: *See*—
Hagiwara, Takaaki; Itoh, Yokichi; Kondo, Ryuji; Yatsuda, Yuji; and Minami, Shinichi, 4,654,828, Cl. 365-184.000.
Minato, Osamu; Aoki, Masakazu; Yatsuda, Yuji; Takagi, Katsuaki; and Horiguchi, Masashi, 4,653,025, Cl. 365-154.000.

Yatsugake, Yasuo: *See*—
Saito, Susumu; Suzuki, Michio; Suda, Kyo; Yatsugake, Yasuo; and Tsukada, Kazuya, 4,685,802, Cl. 356-339.000.

Yatsuo, Tsutomu; Nagano, Takahiro, Oikawa, Saburo; Sato, Yukimasa; Kimura, Shin; and Fukui, Hiroshi, to Hitachi, Ltd. Semiconductor device provided with electrically floating control electro
4,651,189, 3-17-87, Cl. 357-38.000.

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Oikawa, Saburo; and Nagano, Takahiro, 4,646,122,
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Maeda, Akira, 4,705,337, Cl. 439-595.000.
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Oguchi, Koichi; Hosokawa, Minoru; Yazawa, Satoru; and Nagata, Mitsuo. 4,648,691, Cl. 350-338.000.
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Hodge, James E.; and Yeager, Kenneth C., 4,653,019, Cl. 364-900.000.
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Cohen, Irun R.; and Shinitzky, Meir, 4,634,590, Cl. 424-88.000.
Levin, Gideon; and Nae, Hemi N., 4,654,391, Cl. 525-113.000.
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Margel, Shlomo, 4,677,138, Cl. 522-178.000.
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Pecht, Israel; and Mazurek, Nachman, 4,683,135, Cl. 424-85.000.
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Strom, Robert E.; and Yemini, Shaula, 4,665,520, Cl. 371-7.000.

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Tangonan, Gregory L.; and Yen, Huan-Wun, 4,701,009, Cl. 350-96.120.
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Stokes, Robert B.; Yen, Kuo-Hsiung; Lau, Kei-Fung; Kagiwada, Reynold S.; and Delaney, Michael J., 4,707,631, Cl. 310-313.00A.

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Bowers, Mark L.; Druy, Mark A.; Durfor, Charles N.; Smith, H. Gilbert; Tripathy, Sukant K.; and Yenser, Barbara A., 4,704,193, Cl. 204-1.00T.

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Gannon, Mark A.; Kommrusch, Richard S.; and Yester, Francis R., Jr., 4,661,790, Cl. 333-234.000.

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Schmidt, Hans-Werner; Koch, Walter; Hirsch, Martin; Rosenkranz, Karlheinz; and Yetmen, Yilmaz, 4,643,885, Cl. 423-119.000.
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Williamson, Gerald E.; and Noland, Carroll D., 4,656,957, 111-7.000.

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New, James S.; and Yevich, Joseph P., 4,677,104, Cl. 514-222.

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Yinko, Richard H., Sr. Ladle cup for pouring molten metal. 4,637,593, 1-20-87, Cl. 266-275.000.

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Thaler, Arnold; and Yip, P. C., 4,711,988, Cl. 219-364.000.

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Reisfeld, Renata; and Zusman, Rivka, 4,661,649, Cl. 136-247.000.
Segal, Ruth; Pisanty, Sara; and Azaz, Emma, 4,678,772, Cl. 514-25.000.
Shilo, Moshe; and Fattom, Ali, 4,693,842, Cl. 252-356.000.
Shoshan, Shmuel, 4,656,130, Cl. 435-30.000.

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Yli-Koski, Esko T.: *See*—
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Yli-Vakkuri, Erkki P. J.: *See*—
Reunamaki, Pauli T.; Yli-Vakkuri, Erkki P. J.; and Anttonen, Kauko K., 4,695,821, Cl. 338-316.000.
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Sato, Yoshimitsu; Ohtsuka, Shuichi; Kimura, Akinori; Yoda, Akira; Kato, Keishi; and Takahashi, Isoji, 4,697,912, Cl. 355-3.00R.

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Inoue, Hiroshi; Miyazaki, Makoto; Isoi, Masaaki; and Yoda, Makoto, 4,684,578, Cl. 428-462.000.

Yoda, Masashi: *See*—
Kawabe, Ryoichi; Iwasaki, Tetsuo; Kozuru, Hiroshi; Yoda, Masashi; Matsunaga, Masakazu; Takamori, Takesi; and Nakasima, Matao, 4,707,867, Cl. 4-313.000.

Yoda, Michihiro: *See*—
Kobayashi, Yasuo; Yoda, Michihiro; Goto, Hiromi; and Takeuchi, Yo, 4,699,673, Cl. 148-11.50A.

Yoda, Mikio: *See*—
Baba, Kenji; Watanabe, Shoji; Nogita, Shunsuke; Yoda, Mikio; Tanaka, Akihiro; and Mori, Shunji, 4,654,139, Cl. 210-85.000.

Yoda, Norio: *See*—
Tabata, Toshikazu; Fujiwara, Yoshinari; Yoda, Norio; and Aikawa, Hiroshi, 4,679,778, Cl. 267-140.100.
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Yoder, Carole, to Plasti-Bat, Inc. Bat for potters wheel. 4,689,001, 8-25-87, Cl. 425-183.000.

Yoder, Jerry L. Tagging stick. 4,690,404, 9-1-87, Cl. 273-67.00R.

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Reilly, James P.; and Yoder, M. John, 4,635,269, Cl. 372-58.000.

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Yoest-Alpine Aktiengesellschaft: *See*—
Ebeling, Joachim; Friedrich, Peter; Jekat, Herbert; Lugscheider, Walter; Riegler, Ernst; Zajicek, Ernst; Achleitner, Walter; and Jarema, Ferdinand, 4,644,557, Cl. 373-22.000.

Yogan, Thomas J.: *See*—
Cullo, Leonard A.; Nagle, Elliott V., Jr.; Restelli, Edward F., Jr.; and Yogan, Thomas J., 4,705,770, Cl. 502-242.000.

Yogo, Kazutoshi; and Wakata, Hideo, to Nippondenso Co., Ltd. Vehicle running control system. 4,703,823, 11-3-87, Cl. 180-197.000.

Yogo, Kazutoshi; and Wakata, Hideo, to Nippondenso Co., Ltd. Throttle control device for vehicles. 4,714,864, 12-22-87, Cl. 318-52.000.

Yogo, Kenji; and Nomura, Isshi, to Aisin Seiki Kabushiki Kaisha. Turbocharger control system. 4,658,798, 4-21-87, Cl. 123-559.000.

Yogo, Kenji, to Aisin Seiki Kabushiki Kaisha. Engine auxiliary starting device. 4,703,739, 11-3-87, Cl. 123-520.000.

Yogo, Kenji, to Aisin Seiki Kabushiki Kaisha; and Toyota Jidosha Kabushiki Kaisha. Selector valve device. 4,714,193, 12-22-87, Cl. 236-75.000.

Yogo, Kenji: *See*—
Ota, Isamu; Nishimura, Yutaka; Nishio, Shigeru; and Yogo, Kenji, 4,700,682, Cl. 123-516.000.

Yogo, Takeji; Nakagaki, Akitsuna; and Miyazawa, Akio, to Kabushiki Kaisha Tsuchiya Seisakusho. Plate type heat exchanger. 4,653,581, 3-31-87, Cl. 165-166.000.

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Yogome, Yoshihiro; Itsuki, Shetzi; Shimizu, Tokuzu; Shimizu, Tsutomu; and Hamada, Hisashi, to Yanmar Diesel Engine Co., Ltd. Governor for fuel injection pump. 4,665,873, 5-19-87, Cl. 123-373.000.

Yohe, Warren C.: *See*—
Hale, Thomas E.; and Yohe, Warren C., 4,649,084, Cl. 428-552.000.

Yohn, Brent D., to AMP Incorporated. Retention clip for electrical contacts. 4,701,004, 10-20-87, Cl. 439-871.000.

Yohner, Paul A.: *See*—
Scobie, William B.; and Yohner, Paul A., 4,685,611, Cl. 251-306.000.

Yoichi, Mikami: *See*—
Susumu, Kubo; Tsutomu, Ikeda; Yoichi, Takanami; and Yoichi, Mikami, 4,701,522, Cl. 530-370.000.

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Yoshihito, Urata; Toshiharu, Sasaki; Yoshihiro, Yokoyama; and Yoichi, Sekine, 4,647,177, Cl. 355-3.0BE.

Yoichi, Takanami: *See*—
Susumu, Kubo; Tsutomu, Ikeda; Yoichi, Takanami; and Yoichi, Mikami, 4,701,522, Cl. 530-370.000.

Yojigen Agricultural Corporation: *See*—
Odaira, Keikichi, 4,711,787, Cl. 426-31.000.

Yokagawa Medical Systems, Limited: *See*—
Moriyama, Masao; Ohta, Masahiro; Yagi, Toshiaki; and Kawano, Kazuhiro, 4,702,257, Cl. 128-653.000.

Yoke, Hideaki, to Takara Co., Ltd. Assemblage toy. 4,642,064, 2-10-87, Cl. 446-94.000.

Yokemura, Taketoshi: *See*—
Itoh, Masaharu; Yokemura, Taketoshi; and Yanagisawa, Hiroshi, 4,682,869, Cl. 358-260.000.

Yoken Co., Ltd.: *See*—
Kimura, Kinichi, 4,669,124, Cl. 383-80.000.

Yokobori, Nobuyoshi: *See*—
Inaji, Toshio; Okamoto, Hiroshi; and Yokobori, Nobuyoshi, 4,695,907, Cl. 360-107.000.

Yokoe, Jintaro; Takeuchi, Masami; and Tsuji, Toshiaki, to Kansai Netsukagaku Kabushiki Kaisha. Adsorbent for separation-recovery of CO, preparing method thereof and process for separation-recovery of high purity CO, using the adsorbent. 4,713,090, 12-15-87, Cl. 55-68.000.

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Yokoe, Nobuo: *See*—
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Okawa, Takashi; and Yokoe, Nobuo, 4,670,409, Cl. 501-135.000.

Yokogawa Electric Corporation: *See*—
Hoshino, Kazuya; and Matsuura, Hiroyuki, 4,713,614, Cl. 324-307.000.
Inoue, Yuji; Iwaoka, Hideto; and Sugiyama, Tadashi, 4,716,370, Cl. 324-319.000.
Iwaoka, Hideto; Sugiyama, Tadashi; Matsuura, Hiroyuki; and Hirata, Takaaki, 4,694,250, Cl. 324-309.000.
Moriyama, Masao; Ohta, Masahiro; Yagi, Toshiaki; and Kawano, Kazuhiro, 4,702,257, Cl. 128-653.000.
Shimazaki, Toru; Watanabe, Yoshihiko; and Iwaoka, Hideto, 4,700,138, Cl. 324-322.000.
Shimazaki, Toru; and Matsuura, Hiroyuki, 4,713,616, Cl. 324-309.000.
Yamaguchi, Keiki; Iwaoka, Hideto; Sugiyama, Tadashi; and Inoue, Yuji, 4,700,136, Cl. 324-309.000.

Yokogawa, Fumihiko, to Pioneer Electronic Corporation. Amplitude modulated high frequency signal detection device. 4,637,003, 1-13-87, Cl. 369-32.000.

Yokogawa, Fumihiko: *See*—
Aoyagi, Yoshiro; Kimura, Toshiyuki; Niinuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Keiichi; Haeno, Akira; Sato, Takashi; Nishi, Yosuiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77.100.

Yokogawa Hokushin Electric Corporation: *See*—
Fukai, Yoshio; and Goto, Shigeru, 4,651,286, Cl. 364-510.000.
Hayashi, Eiji, 4,652,810, Cl. 323-357.000.
Hirata, Terutaka; Azegami, Tadashi; Kimura, Atsushi; and Katayama, Megumi, 4,683,754, Cl. 73-708.000.
Hoshino, Kazuya; Yamada, Noriaki; Yoshitome, Eiji; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,644,279, Cl. 324-309.000.
Inou, Kiyoharu; Matsumura, Hideaki; and Saito, Hitoshi, 4,680,688, Cl. 363-21.000.
Inou, Kiyoharu; and Saito, Hitoshi, 4,685,039, Cl. 363-16.000.
Iwaoka, Hideto; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,651,097, Cl. 324-309.000.
Kimura, Toshio; Nakagawa, Shuichi; Tokumo, Teruhiko; Yamamoto, Hiroyuki; Kotan, Hiroshi; Otsu, Hiroshi; and Satoh, Tetsuya, 4,649,399, Cl. 346-32.000.
Kimura, Toshio; Tokumo, Teruhiko; and Matsumura, Ken, 4,654,672, Cl. 346-46.000.
Kiyobe, Seinchiro; and Hirano, Tokio, 4,674,325, Cl. 73-73.000.
Kobayashi, Tamotsu; Goto, Shigeru; Ohta, Hironobu; and Torimaru, Takashi, 4,680,973, Cl. 73-861.160.
Kuwahara, Hajime; Ono, Yutaka; and Nikaido, Mitsuhiro, 4,680,466, Cl. 250-231.0SE.
Kuze, Shuichi; Inomata, Tamotsu; Muramoto, Setsuo; and Ikeda, Hisayuki, 4,676,897, Cl. 210-198.200.
Sugiyama, Tadashi; Iwaoka, Hideto; and Matsuura, Hiroyuki, 4,665,368, Cl. 324-318.000.
Suzuki, Kazuie; Torimaru, Takashi; and Ohta, Hironobu, 4,663,976, Cl. 73-861.120.
Tamura, Hisashi; Hirata, Terutaka; Odohira, Tetsu; and Ogawa, Tadahiro, 4,644,798, Cl. 73-708.000.
Terajima, Makoto; and Fujino, Kenji, 4,651,168, Cl. 346-76.0PH.
Ueda, Toshitsugu; Kohsaka, Fusao; Yamazaki, Daisuke; and Akazawa, Hideo, 4,680,970, Cl. 73-702.000.
Yamada, Noriaki; Hoshino, Kazuya; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,656,426, Cl. 324-309.000.
Yamaguchi, Keiki; Inoue, Yuji; Iwaoka, Hideto; and Sugiyama, Tadashi, 4,663,592, Cl. 324-315.000.
Yamaguchi, Keiki; Hoshino, Kazuya; and Iwaoka, Hideto, 4,684,889, Cl. 324-308.000.

Yokogawa Medical Systems, Limited: *See*—
Endo, Hisashi, 4,716,426, Cl. 354-76.000.
Fujita, Kenjiro; and Takiura, Yasuro, 4,654,797, Cl. 364-414.000.
Hirota, Yuichi; Kodama, Toshikatsu; Akasaka, Hideya; and Takeuchi, Yasuhito, 4,674,516, Cl. 128-660.000.
Hoshino, Kazuya; Yamada, Noriaki; Yoshitome, Eiji; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,644,279, Cl. 324-309.000.
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Inoue, Yuji; Iwaoka, Hideto; and Sugiyama, Tadashi, 4,716,370, Cl. 324-319.000.
Nemoto, Kayoko; and Ohya, Takeshi, 4,642,621, Cl. 340-721.000.
Shimazaki, Toru; Watanabe, Yoshihiko; and Iwaoka, Hideto, 4,700,138, Cl. 324-322.000.
Shimazaki, Toru; and Matsuura, Hiroyuki, 4,713,616, Cl. 324-309.000.
Takeuchi, Yasuhito, 4,638,467, Cl. 367-105.000.
Takeuchi, Yasuhito; Hirota, Yuichi; Sano, Shinichi; and Ishiguro, Shinichi, 4,694,680, Cl. 73-1.0DV.
Yamada, Noriaki; Hoshino, Kazuya; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,656,426, Cl. 324-309.000.
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Yamaguchi, Keiki; Iwaoka, Hideto; Sugiyama, Tadashi; and Inoue, Yuji, 4,700,136, Cl. 324-309.000.
Yamaguchi, Keiki; and Tomita, Shozo, 4,709,271, Cl. 358-244.000.
Yoshitome, Eiji; and Hoshino, Kazuya, 4,694,251, Cl. 324-309.000.

Yokogawa, Syunzi: *See*—
Mizutani, Yoshihisa; and Yokogawa, Syunzi, 4,642,880, Cl. 29-576.00B.

Yokogawa, Tomohisa; Kanda, Nobuo; and Iwasaki, Hideki, to Pioneer Electronic Corporation. Antenna switching circuit for a diversity receiving system and branching circuit with a signal attenuation operation. 4,656,364, 4-7-87, Cl. 307-112.000.

Yokogawa, Turukichi: *See*—
Yamashita, Seiji; and Yokogawa, Turukichi, 4,666,725, Cl. 426-465.000.

Yokohama Aeroquip Company: *See*—
Itoh, Nobuaki; and Sekine, Takashi, 4,644,973, Cl. 137-883.000.

Yokohama Rubber Co., Ltd., The: *See*—
Ahagon, Asahiro; Kobayashi, Toshio; Yamada, Kazuhiro; Doi, Seiichi; and Misawa, Makoto, 4,635,693, Cl. 152-209.00R.
Hara, Yoshiaki; and Wakabayashi, Masashi, 4,673,314, Cl. 405-215.000.
Hiza, Misao; Yamazaki, Hajime; and Omote, Shigeo, 4,654,382, Cl. 523-457.000.
Hosokawa, Ichiro, 4,635,694, Cl. 152-209.00A.
Kabe, Kazuyuki; Morikawa, Tuneo; and Tsukada, Shuichi, 4,657,058, Cl. 152-556.000.
Kabe, Kazuyuki; and Morikawa, Tuneo, 4,691,752, Cl. 152-527.000.
Kabe, Kazuyuki; Morikawa, Tuneo; and Takahashi, Shuji, 4,711,286, Cl. 152-527.000.
Kabe, Kazuyuki; and Morikawa, Tuneo, 4,715,420, Cl. 152-557.000.
Kageyama, Kunio; and Takasugi, Sumio, 4,695,508, Cl. 428-261.000.
Kikuchi, Yasushi; Kayama, Kazuyoski; Tokieda, Akinori; Watanabe, Hiroyuki; and Akita, Shuichi, 4,677,165, Cl. 525-332.900.
Kogure, Tomohiko; Hiraga, Tadayoshi; Mama, Riichiro; and Takasugi, Nobuhito, 4,649,975, Cl. 152-209.00R.
Kumata, Masataka; Emori, Kazuo; Mitsumori, Masahito; Watanabe, Hideo; and Kobayashi, Kazuaki, 4,664,644, Cl. 464-180.000.
Okada, Noboru; and Tanaka, Toshio, 4,666,030, Cl. 198-431.000.
Takagi, Haruyuki; and Yonezawa, Takeshi, 4,687,942, Cl. 250-556.000.
Takahashi, Ken; and Takahashi, Osamu, 4,641,697, Cl. 152-209.00R.
Teramoto, Mitsutake; Saito, Shinkichi; and Takebayashi, Takamitsu, 4,645,207, Cl. 273-77.00A.
Waki, Yusaku; and Aoyama, Hideki, 4,633,976, Cl. 184-6.400.
Yamamoto, Hideto, 4,659,417, Cl. 156-405.100.

Yokoi, Hiromitsu: *See*—
Tanaka, Yoshinobu; and Yokoi, Hiromitsu, 4,634,023, Cl. 222-105.000.

Yokoi, Hiroshi: *See*—
Iwasa, Tadanobu; and Yokoi, Hiroshi, 4,686,122, Cl. 427-388.300.

Yokoi, Hiroyuki: *See*—
Kaneko, Yoshihiro; Tochikubo, Osamu; and Yokoi, Hiroyuki, 4,660,567, Cl. 128-682.000.

Yokoi, Katsuyuki, to Canon Kabushiki Kaisha. Liquid jet recording head. 4,660,056, 4-21-87, Cl. 346-140.00R.

Yokoi, Katsuyuki: *See*—
Ikeda, Masami; Aoki, Seiichi; Saito, Akio; Inamoto, Tadayoshi; and Yokoi, Katsuyuki, 4,646,110, Cl. 346-140.00R.

Yokoi, Kenji: *See*—
Nakamura, Kazuhito; Sasaki, Hisami; Chigira, Masayoshi; and Yokoi, Kenji, 4,678,590, Cl. 252-8.800.

Yokoi, Masakatsu; and Harada, Tsutomu, to Dainippon Screen Mfg. Co., Ltd. Picture scanning and recording using a photoelectric focusing system. 4,686,359, 8-11-87, Cl. 250-201.000.

Yokoi, Masakatsu: *See*—
Yoshimoto, Takeshi; Tsuda, Masanari; Masuda, Yoshikazu; and Yokoi, Masakatsu, 4,660,094, Cl. 358-285.000.

Yokoi, Mitsuru: *See*—
Yamada, Masaki; Yokoi, Mitsuru; and Oishi, Kazuhiro, 4,635,792, Cl. 206-310.000.

Yokoi, Nobuyuki; Taira, Toshimitsu; and Tsuyuguchi, Koji, to Kurosaki Refractories Co., Ltd. Sliding nozzle apparatus. 4,660,749, 4-28-87, Cl. 222-600.000.

Yokoi, Satoru; and Kondo, Hirokazu, to Tsubakimoto Chain Company. Load testing apparatus for electronic components. 4,692,694, 9-8-87, Cl. 324-158.00F.

Yokoi, Shigeo; Isozaki, Takashi; Yamamoto, Ryuta; and Kawaguchi, Toshiyuki, to NGK Insulators Ltd. System for supervising and guiding persons in construction. 4,709,330, 11-24-87, Cl. 364-400.000.

Yokoi, Shinichi; and Ito, Tsuneo, to NGK Spark Plug Co., Ltd. Method for manufacturing a ceramic heater. 4,640,809, 2-3-87, Cl. 264-61.000.

Yokoi, Shinichi, to NGK Spark Plug Co., Ltd. Ceramic glow plug. 4,650,963, 3-17-87, Cl. 219-270.000.

Yokoi, Shinichi; Itoh, Tsuneo; Yasuhara, Seishi; and Kondo, Hiroshi, to NGK Spark Plug Co., Ltd.; and Nissan Motor Co., Ltd. Dual line ceramic glow plug. 4,661,686, 4-28-87, Cl. 219-270.000.

Yokoi, Shinichi: *See*—
Ichikawa, Sadao; Yokoi, Shinichi; Yasuhara, Seishi; and Kondo, Hiroshi, 4,635,594, Cl. 123-179.0BG.
Itoh, Tsuneo; and Yokoi, Shinichi, 4,636,614, Cl. 219-270.000.
Mure, Hiroshi; Mizoguchi, Ryohei; Yokoi, Shinichi; Fujihara, Shigeru; and Ichikawa, Kaoru, 4,686,687, Cl. 373-22.000.

Yokoi, Syouichiro: *See*—
Yamaguchi, Katsumi; Yokoi, Syouichiro; Kanai, Takao; and Yoshikawa, Kikuo, 4,708,302, Cl. 242-204.000.

Yokoi, Takashi: *See*—
Kitagawa, Sadao; Yokoi, Takashi; and Kaito, Mitsunasa, 4,677,213, Cl. 549-377.000.

Yokoi, Tatsuhisa; Takeya, Eisaku; Hattori, Kyo; Abe, Kazuo; and Osawa, Hideyuki, to Toyota Jidosha Kabushiki Kaisha; and Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Intake manifold for internal combustion engine having exhaust gas recirculation system. 4,672,939, 6-16-87, Cl. 123-568.000.

Yokoi, Tatsuhisa: *See*—
Noguchi, Yoshikazu; Yokoi, Tatsuhisa; Takeya, Eisaku; and Osawa, Hideyuki, 4,648,373, Cl. 123-568.000.

Yokoiwa, Sumiharu: *See*—
Yorinaga, Muneo; Yokoiwa, Sumiharu; and Yamaguchi, Hiroaki, 4,658,650, Cl. 73-654.000.

Yokokawa, Harumi: *See*—
Fujishige, Masao; Yokokawa, Harumi; Ujite, Seiichi; and Dokiya, Masayuki, 4,681,626, Cl. 75-68.00A.

Yokokawa, Kiyoshi; and Koya, Kazuo, to Shin-Etsu Chemical Co., Ltd. Quartz glass-made optical fibers and a method for the preparation thereof. 4,690,504, 9-1-87, Cl. 350-96.340.

Yokokawa, Tomohisa: *See*—
Iwasaki, Hideki; Yokokawa, Tomohisa; and Kurosaki, Masanori, 4,686,707, Cl. 455-200.000.

Yokokawa, Toshio; and Hirukawa, Yohichi, to Anelva Corporation. Method of forming an iron oxide film by reacting sputtering with control of a glow discharge by monitoring an emission spectrum of iron from the glow discharge. 4,704,199, 11-3-87, Cl. 204-298.000.

Yokokura, Hisao; Era, Susumu; Abe, Hidetoshi; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, to Hitachi, Ltd. Liquid-crystal compound, liquid crystal composition and liquid crystal display device. 4,645,305, 2-24-87, Cl. 350-351.000.

Yokokura, Hisao: *See*—
Era, Susumu; Yokokura, Hisao; Iwasaki, Kishiro; Nakata, Tadao; Kitamura, Teruo; and Mukoh, Akio, 4,653,866, Cl. 350-350.00S.
Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaroo; Mukoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.
Iwasaki, Kishiro; Era, Susumu; Yokokura, Hisao; Nakata, Tadao; and Mukoh, Akio, 4,634,228, Cl. 350-341.000.

Yokokura, Shuichi: *See*—
Shirakura, Akira; Yonezawa, Ichiro; and Yokokura, Shuichi, 4,676,379, Cl. 209-599.000.

Yokokura, Takashi: *See*—
Hori, Nobuo; Yokokura, Takashi; and Ohtomo, Fumio, 4,660,290, Cl. 33-366.000.

Yokomakura, Mitsunori: *See*—
Kanehisa, Takashi; and Yokomakura, Mitsunori, 4,642,517, Cl. 313-495.000.

Yokomichi, Shigeharu; and Ono, Yasunori, to Amada Company, Limited. Nozzle elevating device for a wire cutting electric discharge machine. 4,675,492, 6-23-87, Cl. 219-69.00W.

Yokomizo, Hiroshi: *See*—
Nishizawa, Masahiro; Yokomizo, Hiroshi; Miura, Kiyoshi; and Sasaya, Osamu, 4,657,961, Cl. 524-297.000.

Yokomizo, Hitoshi: *See*—
Amao, Nobuyoshi; Takahashi, Yoshihisa; and Yokomizo, Hitoshi, 4,668,884, Cl. 310-68.00R.

Yokomizo, Yoshikazu, to Canon Kabushiki Kaisha. Image signal processing device. 4,667,237, 5-19-87, Cl. 358-160.000.

Yokomizo, Yoshikazu, to Canon Kabushiki Kaisha. Color image processing apparatus in which different color signals of different colors are read into different memories at different rates. 4,673,972, 6-16-87, Cl. 358-77.000.

Yokomizo, Yoshikazu, to Canon Kabushiki Kaisha. Data decoding apparatus. 4,716,471, 12-29-87, Cl. 358-296.000.

Yokomori, Shinji, to Fuji Electric Co., Ltd. Coin refund signal generator. 4,690,263, 9-1-87, Cl. 194-317.000.

Yokono, Hitoshi: *See*—
Noro, Takanobu; Koakutsu, Yasumasa; Takeuchi, Tamio; Yano, Masao; Onoda, Seiichi; Arima, Hideo; Yokono, Hitoshi; and Tanei, Hirayoshi, 4,715,673, Cl. 350-96.200.
Okunaka, Masaaki; Nakatani, Mitsuo; Matsuyama, Haruhiko; Yokono, Hitoshi; Isogai, Tokio; Saitoh, Tadashi; Matsukuma, Kunihiro; Midorikawa, Sumiyuki; and Suzuki, Satoru, 4,643,913, Cl. 427-75.000.

Yokono, Koujiro; Kamio, Masaru; and Ohkubo, Yukitoshi, to Canon Kabushiki Kaisha. Liquid crystal device for color display. 4,714,636, 12-22-87, Cl. 428-1.000.

Yokonuma, Norikazu; and Hagiuda, Nobuyoshi, to Nippon Kogaku K. K. Electronic flash device. 4,660,956, 4-28-87, Cl. 354-416.000.

Yokoo, Akio: *See*—
Shinohara, Toshio; Ogawa, Masahiko; and Yokoo, Akio, 4,659,852, Cl. 556-476.000.

Yokoo, Chihiro: *See*—
Watanabe, Yoshiaki; Yokoo, Chihiro; Goi, Masami; Onodera, Akira; Murata, Mitsuo; Fukushima, Hiroshi; and Sota, Kaoru, 4,699,981, Cl. 540-227.000.

Yokoo, Hiroshi: *See*—
Inoue, Senya; Ono, Akira; Kobayashi, Mikio; and Yokoo, Hiroshi, 4,698,317, Cl. 501-9.000.

Yokoo, Koji: *See*—
Inoue, Yoshio; Arai, Masatoshi; Sato, Shinichi; and Yokoo, Koji, 4,695,617, Cl. 528-32.000.

Yokoo, Nobuo: *See*—
Fujii, Setsuro; Yokoyama, Touru; Ikegaya, Kouji; Yokoo, Nobuo; and Nagakura, Masahiko, 4,639,435, Cl. 514-11.000.

Yokoo, Sadao; Shimomura, Tadashi; Torisawa, Soichi; Dan, Masahiro; and Kaneda, Tsuyoshi, to Nippon Sheet Glass Co., Ltd.; Hitachi, Ltd.; and Hitachi Microcomputer Engineering Ltd. Protective cover. 4,634,270, 1-6-87, Cl. 355-125.000.

Yokosawa, Seiichi, to Pioneer Electronic Corporation. Method for recording and reading out a video format signal. 4,647,985, 3-3-87, Cl. 358-341.000.

Yokose, Kazutoshi, to Seiko Instruments & Electronics Ltd. Horizontal articulated robot. 4,699,563, 10-13-87, Cl. 414-744.00A.

Yokose, Kazutoshi: *See*—
Nagai, Masahide; and Yokose, Kazutoshi, 4,685,862, Cl. 414-744.00A.

Yokoshima, Minoru; and Ohkubo, Tetsuo, to Nippon Kayaku Kabushiki Kaisha. Novel organophosphate and adhesive comprising it. 4,647,638, 3-3-87, Cl. 526-277.000.

Yokoshima, Minoru: *See*—
Nawata, Kazuyoshi; Katayama, Masahito; and Yokoshima, Minoru, 4,636,534, Cl. 522-116.000.

Yokoshita, Toshiaki: *See*—
Miyoshi, Teturo; and Yokoshita, Toshiaki, 4,654,004, Cl. 432-80.000.

Yokota, Akira, to Olympus Optical Co., Ltd. Illuminating optical system for high magnification endoscopes. 4,639,837, 1-27-87, Cl. 362-32.000.

Yokota, Akira, to Olympus Optical Co., Ltd. Measuring endoscope. 4,656,508, 4-7-87, Cl. 358-98.000.

Yokota, Akira; and Kato, Masashi, to Japan Steel Works Ltd., The. Plastic magnet injection molding machine. 4,661,053, 4-28-87, Cl. 425-3.000.

Yokota, Akira; Kato, Masashi; and Fuji, Katsuhiro, to Japan Steel Works, Ltd., The. Press apparatus for magnetic injection molding machines. 4,666,387, 5-19-87, Cl. 425-3.000.

Yokota, Akira: *See*—
Ishii, Wataru; Miyazawa, Shozo; Tsuchiya, Shinji; Nakane, Hisashi; and Yokota, Akira, 4,702,992, Cl. 430-272.000.
Nishioka, Kimihiko; Takahashi, Susumu; Yokota, Akira; and Okabe, Minoru, 4,674,844, Cl. 350-469.000.

Yokota, Akitoshi: *See*—
Sauda, Kenzo; Yokota, Akitoshi; Yagi, Takuro; Kuribayashi, Hiroshi; Kita, Saburo; Shibata, Setsuo; and Ogawa, Hirofusa, 4,661,290, Cl. 252-626.000.

Yokota, Fumiki: *See*—
Sekine, Yoshitada; Yokota, Fumiki; and Kubota, Hisashi, 4,715,709, Cl. 356-237.000.
Tamura, Kinichi; Sekine, Yoshitada; and Yokota, Fumiki, 4,669,168, Cl. 29-429.000.

Tamura, Kinichi; Kawada, Susumu; Sekine, Yoshitada; Abe, Kazuyoshi; Ishikawa, Ryosuke; and Yokota, Fumiki, 4,691,905, Cl. 269-45.000.

Yokota, Hajime: *See*—
Ibamoto, Masahiko; Hori, Takamasa; Asano, Hideki; and Yokota, Hajime, 4,672,197, Cl. 250-227.000.

Yokota, Hideo: *See*—
Kato, Masatake; Nishimura, Tetsuharu; and Yokota, Hideo, 4,682,237, Cl. 358-225.000.
Nishimura, Tetsuharu; Yokota, Hideo; and Kato, Masatake, 4,677,489, Cl. 358-213.130.
Yamada, Yasuyuki; Fujibayashi, Kazuo; Sato, Yasuhisa; and Yokota, Hideo, 4,715,692, Cl. 350-422.000.

Yokota, Hirofumi: *See*—
Meguro, Kenjiro; Sagawa, Koichiro; Yokota, Hirofumi; and Takehara, Masahiro, 4,640,943, Cl. 523-200.000.

Yokota, Hiroshi, to Toyota Jidosha Kabushiki Kaisha; and Daiwa Kasei Kogyo Kabushiki Kaisha. Removable expanding fastener. 4,647,262, 3-3-87, Cl. 411-44.000.

Yokota, Hiroshi; Tanaka, Gotaro; Kanamori, Hiroo; Mizutani, Futoshi; and Danzuka, Toshio, to Sumitomo Electric Industries, Ltd. Method for producing glass preform for optical fiber. 4,668,263, 5-26-87, Cl. 65-3.110.

Yokota, Hiroshi, to Pioneer Electronic Corporation. Rotary head type magnetic recording and reproducing device. 4,679,100, 7-7-87, Cl. 360-15.000.

Yokota, Hiroshi: *See*—
Suzuki, Shuzo; Ogasawara, Ichiro; Yokota, Hiroshi; and Sumida, Shim, 4,653,852, Cl. 350-96.330.

Yokota, Kazunori: *See*—
Toya, Akihiro; Kagawa, Junichi; Yokota, Kazunori; and Mori, Hiroaki, 4,659,960, Cl. 313-141.000.

Yokota, Kinya; Ichihara, Akinobu; Tanakamaru, Yasuharu; and Takahashi, Yoshio, to Dai-chi Kogyuo Seiyaku Co., Ltd.; and Mitsubishi Oil Co., Ltd. Sizing agent suitable for use in paper making. 4,666,523, 5-19-87, Cl. 106-213.000.

Yokota, Koichi: *See*—
Yoshino, Koichiro; Seko, Norihiko; Yokota, Koichi; Ito, Keizo; and Tsukamoto, Goro, 4,659,726, Cl. 514-365.000.

Yokota, Mamoru, to Yazaki Industrial Chemical Co., Ltd. Roll holder. 4,690,344, 9-1-87, Cl. 242-55.530.

Yokota, Masaaki, to Tachikawa Spring Co. Ltd. Headrest for a vehicle seat. 4,640,549, 2-3-87, Cl. 297-410.000.

Yokota, Masami; Sugitani, Hiroshi; and Inamoto, Tadayoshi, to Canon Kabushiki Kaisha. Method for producing ink jet recording head. 4,666,823, 5-19-87, Cl. 430-320.000.

Yokota, Seiji: *See*—
Iwata, Takashi; Yokota, Seiji; Inoue, Yoshiaki; and Koizumi, Tadashi, 4,665,296, Cl. 219-121.0PR.

Yokota, Shinichi: *See*—
Endo, Hideki; Hashimoto, Kazuto; Tanaka, Kenji; Matsumoto, Takeshi; Igi, Keishiro; Okamura, Takayuki; Taniguchi, Shunro; Ishii, Masao; Murata, Yoshifumi; and Yokota, Shinichi, 4,657,973, Cl. 525-67.000.
Hirai, Koji; Taniguchi, Shunro; Ishiguro, Michihiro; Murata, Yoshifumi; Yokota, Shinichi; Ishii, Masao; Yoshimura, Noriaki; and Okamura, Takayuki, 4,639,471, Cl. 521-172.000.

Yokota, Takashi, to Ricoh Company, Ltd. Receptacle for memory cassette. 4,657,136, 4-14-87, Cl. 206-328.000.

Yokota, Takashi; Lee, Frank; Rennick, Donna; and Arai, Ken-ichi, to DNAX Research Institute of Molecular and Cellular Biology, Inc. cDNA clones coding for polypeptides exhibiting multi-lineage cellular growth factor activity. 4,695,542, 9-22-87, Cl. 435-68.000.

Yokota, Takashi: *See*—
Ikeda, Kunihiko; Suzuki, Shigeru; Yokota, Takashi; Shimura, Akira; Kodama, Yutaka; Yamazaki, Shigeru; Niro, Masaichi; and Tomita, Satoru, 4,657,372, Cl. 355-3.00R.

Yokota, Tohru; Inoue, Kaname; Kitamura, Hajime; Isobe, Kenichi; Ichinohe, Shoji; and Yanagisawa, Takeji, to Shin-Etsu Chemical Co., Ltd. Composite polymeric material comprising vinyl chloride and organosilicon moieties and a method for the preparation thereof. 4,665,145, 5-12-87, Cl. 526-279.000.

Yokota, Toyohachi, to NEC Corporation. Star sensor using CCD. 4,658,431, 4-14-87, Cl. 382-53.000.

Yokota, Yasunori, to Nippon Thompson Co., Ltd. Linear motion rolling contact bearing assembly. 4,655,613, 4-7-87, Cl. 384-49.000.

Yokota, Yasunori, to Nippon Thompson Co., Ltd. Roller bearing for linear movement. 4,688,950, 8-25-87, Cl. 384-44.000.

Yokota, Yasunori, to Nippon Thompson Company, Ltd. Sandwich type attachment mounting structure of a rolling contact bearing assembly. 4,699,521, 10-13-87, Cl. 384-18.000.

Yokota, Yasunori, to Nippon Thompson Co., Ltd. Holding device of rolling bearing for rectilinear motion. 4,701,059, 10-20-87, Cl. 384-49.000.

Yokota, Yoshiko: *See*—
Mine, Yasuhiro; and Yokota, Yoshiko, 4,666,889, Cl. 514-18.000.

Yokota, Yuji; and Osabe, Akira, to Canon Denshi Kabushiki Kaisha. Apparatus for loading a magnetic disc and for controlling the driving thereof. 4,641,212, 2-3-87, Cl. 360-99.000.

Yokota, Yukinaga: *See*—
Yamasaki, Harumasa; Morii, Masayoshi; Yokota, Yukinaga; Mamada, Akira; and Nabata, Yoshiyuki, 4,714,719, Cl. 521-163.000.

Yokota, Yukio: *See*—
Saito, Naoki; Aoki, Kozo; and Yokota, Yukio, 4,690,889, Cl. 430-552.000.

Yokota, Yutaka; and Shimasaki, Hiroshi, to Sanyo Electric Co., Ltd. Color television display apparatus having improved convergence of electron beams. 4,636,684, 1-13-87, Cl. 313-412.000.

Yokota, Yuuji; and Karuishi, Kazuhiro, to Kabushiki Kaisha Sato. Actuating mechanism for printing head of printing machine. 4,669,896, 6-2-87, Cl. 400-120.000.

Yokota, Yuzo; Noma, Kanji; Kawase, Kiyotaka; Kitamura, Hironori; and Kamigaito, Masayuki, to Nippon Foil Mfg. Co., Ltd. Composition for forming a layer of the supporting plate for use in lithograph and process for producing the composition. 4,680,322, 7-14-87, Cl. 523-416.000.

Yokota, Yuzo; and Endo, Atsushi, to Toshiba Tungaloy Co., Ltd. Drbit. 4,687,388, 8-18-87, Cl. 408-230.000.

Yokotani, Yoichiro; Kato, Junichi; Nishida, Masamitsu; Kawashima, Syunichiro; and Ouchi, Hiromu, to Matsushita Electric Industrial Co., Ltd. Dielectric ceramic compositions. 4,711,862, 12-8-87, Cl. 501-136.000.

Yokote, Yoshihiro, to NSK-Warner K.K. Automatic seat belt system. 4,659,107, 4-21-87, Cl. 280-804.000.

Yokote, Yoshihiro, to Nippon Seiko Kabushiki Kaisha. Automatic adjusting device for a movable runner member used in an automatic seat belt system. 4,664,414, 5-12-87, Cl. 280-804.000.

Yokoto, Hiroshi: *See*—
Nishimura, Masayuki; Suzuki, Shuzo; and Yokoto, Hiroshi, 4,715,695, Cl. 350-96.310.

Yokouchi, Hiroshi; and Miyazaki, Kazuhiko, to Oki Electric Industry Co., Ltd. CMOS data input-output circuit. 4,680,491, 7-14-87, Cl. 307-579.000.

Yokouchi, Hiroshi, to Oki Electric Industry Co., Ltd. Data bus discharging circuit. 4,701,888, 10-20-87, Cl. 365-203.000.

Yokouchi, Kentaro: *See*—
Yoshitake, Yuji; Yokouchi, Kentaro; and Yoshikawa, Hiroyoshi, 4,638,374, Cl. 358-336.000.

Yokouchi, Kishio; Suzuki, Yuichi; and Niwa, Koichi, to Fujitsu Limited. Evaporation cooling module for semiconductor device. 4,704,658, 11-3-87, Cl. 361-385.000.

Yokouchi, Kishio: *See*—
Kurihara, Kazuaki; Kamehara, Nobuo; Yokoyama, Hiromitsu; Ogawa, Hiromi; Yokouchi, Kishio; Imanaka, Yoshihiko; and Niwa, Koichi, 4,642,148, Cl. 156-89.000.

Yokowo Mfg. Co., Ltd.: *See*—
Yanagisawa, Wasuke; and Muramatsu, Kenichi, 4,716,382, Cl. 330-286.000.

Yokoya, Hiroaki; Sano, Kenji; and Sato, Hideo, to Fuji Photo Film Co., Ltd. Electrophotographic photoreceptor comprises diarylamine photoconductor and styryl dye having tertiary amino moiety substituted with aryl groups. 4,708,922, 11-24-87, Cl. 430-73.000.

Yokoya, Hiroaki: *See*—
Tachikawa, Hiromichi; Yokoya, Hiroaki; Watarai, Syu; and Kitatani, Katuzi, 4,681,832, Cl. 430-115.000.

Yokoya, Satoshi: *See*—
Yasuda, Hiroshi; Ohnishi, Kanji; Yokoya, Satoshi; and Strom, Jo, 4,700,377, Cl. 379-88.000.

Yokoya, Yuji; Buma, Shuuichi; Araki, Hitoshi; Miyata, Hiroshi; Hirose, Masanori; and Ohashi, Kaoru, to Toyota Jidosha Kabushiki Kaisha. Method of adjusting vehicle height. 4,648,621, 3-10-87, Cl. 280-707.000.

Yokoya, Yuji: *See*—
Buma, Shuuichi; Yokoya, Yuji; Araki, Hitoshi; Hirose, Masanori; Miyata, Hiroshi; and Ohashi, Kaoru, 4,766,135, Cl. 267-64.210.
Hayashi, Makoto; and Yokoya, Yuji, 4,660,689, Cl. 188-319.000.
Sato, Hiroki; Sanada, Yukitomo; Yokoya, Yuji; Masaki, Kazu; Nakagawa, Kiyohara; and Murata, Syuuji, 4,681,143, Cl. 137-625.370.
Sogabe, Ichita; Murata, Shuuji; and Yokoya, Yuji, 4,647,010, Cl. 251-129.120.
Sogabe, Ichita; Murata, Syuuji; and Yokoya, Yuji, 4,691,135, Cl. 310-254.000.

Yokoyama, Akira, to K.K. Yokoyama Zosen Sekkei Jimusho; and Nakamura Sengu Kogyo K.K.; and Inoue, Yoshio. Method and apparatus of automatically controlling sailboat. 4,671,201, 6-9-87, Cl. 114-102.000.

Yokoyama, Akira: *See*—
Ohdaira, Akio; Suga, Michiharu; Kato, Akifumi; Kobyashi, Toshio; and Yokoyama, Akira, 4,670,508, Cl. 525-64.000.
Takahashi, Keietsu; Ueda, Nobuo; Hazue, Masaaki; Yokoyama, Akira; and Ohmomo, Yoshiro, 4,645,660, Cl. 424-1.100.

Yokoyama, Eiji: *See*—
Ohyauchi, Hideo; Amano, Yoshiaki; and Yokoyama, Ei, 4,693,945, Cl. 429-21.000.

Yokoyama, Fumitomo; Kuwayama, Yoshinari; Tatsuta, Mitsugu; and Kuramochi, Koujiro, to Aisin-Warner Limited; and Toyota Jidosha Kabushiki Kaisha. Governor valve. 4,683,903, 8-4-87, Cl. 137-56.0

Yokoyama, Fumitomo: *See*—
Shirai, Ryoichi; Yokoyama, Fumitomo; and Kuramochi, Koujir, 4,645,441, Cl. 418-126.000.

Yokoyama, Goro: *See*—
Hirata, Yasushi; Kondo, Hitoshi; Yokoyama, Goro; and Ohat, Masaki, 4,690,965, Cl. 524-236.000.

Yokoyama, Hideki, to Matsushita Electric Works, Ltd. Jack for telephone set. 4,655,529, 4-7-87, Cl. 339-122.00R.

Yokoyama, Hideo: *See*—
Inada, Yasuo; Sato, Koki; Fujii, Takaao; Yokoyama, Hide, Takahashi, Shoichi; Mizutani, Kiyoshi; Kawashima, Takayos, and Nagawa, Akira, 4,664,333, Cl. 242-107.40A.

Yokoyama, Hiromitsu: *See*—
Imanaka, Yoshihiko; Ogawa, Hiromi; Tsukada, Mineharu; Udagawa, Etsuro; Kurihara, Kazuaki; Yokoyama, Hiromitsu; and Kamehara, Nobuo, 4,679,320, Cl. 29-848.000.
Kurihara, Kazuaki; Kamehara, Nobuo; Yokoyama, Hiromitsu; Ogawa, Hiromi; Yokouchi, Kishio; Imanaka, Yoshihiko; and Niwa, Koichi, 4,642,148, Cl. 156-89.000.

Yokoyama, Hiroshi, to NEC Corporation. Array antenna system. 4,673,942, 6-16-87, Cl. 342-368.000.

Yokoyama, Hiroshi: *See*—
Izutani, Toshiyuki; Tomita, Yuichi; and Yokoyama, Hiroshi, 4,658,257, Cl. 342-372.000.

Yokoyama, Hirotaka; Ido, Tadashi; Maeda, Tatsumi; and Kurisu, Shunji, to Kabushiki Kaisha Toshiba. Magnetic recording powder, method of manufacturing thereof and application thereof. 4,699,771, 10-13-87, Cl. 423-138.000.

Yokoyama, Hirotaka: *See*—
Kubo, Osamu; Nomura, Tutomu; Ido, Tadashi; and Yokoyama, Hirotaka, 4,636,433, Cl. 428-328.000.

Yokoyama, Hitoshi, and Iwanaga, Yukiya, to Fuji Oil Company, Limited. Method for preparing cheese flavor concentrate. 4,708,876, 11-24-87, Cl. 426-33.000.

Yokoyama, Isao: *See*—
Watabe, Seiji; Yokoyama, Isao; Sasaki, Masanori; Toyoshima, Yotaro; Takahashi, Sumio; and Maeda, Tsutomu, 4,714,908, Cl. 335-212.000.

Yokoyama, Issei: *See*—
Tanaka, Masaru; Hara, Kiyoaki; and Yokoyama, Issei, 4,662,748, Cl. 356-317.000.

Yokoyama, Iwao: *See*—
Masuhara, Yasuhiro; Utamura, Motoaki; Kashiwai, Shinichi; Yokoyama, Iwao; Murata, Shigeto; Nakao, Toshitsugu; and Maeda, Yuichiro, 4,663,116, Cl. 376-377.000.

Yokoyama, Jiro; and Tanabe, Seiichi, to Mitsubishi Jukogyo Kabushiki Kaisha. Fuel battery. 4,699,852, 10-13-87, Cl. 429-31.000.

Yokoyama, Junji: *See*—
Takei, Shinzo; Yokoyama, Junji; and Takagi, Makoto, 4,640,700, Cl. 65-59.220.

Yokoyama, Kageki; and Amano, Itaru, to Kabushiki Kaisha Kobe Seiko Sho. Mold clamping mechanism for tire curing machines. 4,686,129, 8-11-87, Cl. 425-47.000.

Yokoyama, Katsunori; and Tanuma, Chiaki, to Kabushiki Kaisha Toshiba. Position adjustment device with a piezoelectric element as a lock mechanism. 4,689,516, 8-25-87, Cl. 310-317.000.

Yokoyama, Katsunori: *See*—
Hayashimoto, Yoshiaki; Tanuma, Chiaki; Yokoyama, Katsunori; and Harada, Nozomu, 4,634,884, Cl. 250-578.000.

Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; Inoue, Yoshihisa; Naito, Youichiro; and Suyama, Tadakazu, to Green Cross Corporation, The. Perfluoro-1-azatricyclic amine compounds useful as blood substitutes or in infusion fluids. 4,654,337, 3-31-87, Cl. 514-214.000.

Yokoyama, Kazumasa; Fukaya, Chikara; Tsuda, Yoshio; Ono, Taizo; Arakawa, Yoshio; and Suyama, Tadakazu, to Green Cross Corporation, The. Perfluoro compounds. 4,713,459, 12-15-87, Cl. 546-150.000.

Yokoyama, Kazumasa: *See*—
Fukushima, Tsunekazu; Emoto, Hiroshi; Kagitani, Yoshio; Yokoyama, Kazumasa; Nishida, Masayuki; and Suyama, Tadakazu, 4,687,762, Cl. 514-34.000.
Imagawa, Takashi; Yokoyama, Kazumasa; and Mizushima, Yutaka, 4,684,633, Cl. 514-78.000.
Scherer, Kirby V., Jr.; Ono, Taizo; Yamanouchi, Kouichi; and Yokoyama, Kazumasa, 4,686,024, Cl. 204-157.950.

Yokoyama, Keiko, legal heir and representative: *See*—
Fujiwara, Kazuo; Torii, Yasushi; Kitahata, Koujiro; Inoue, Tsuyoshi; and Yokoyama, Tadamasa, deceased, 4,689,198, Cl. 420-47.000.

Yokoyama, Kenji, to Nippon Gakki Seizo Kabushiki Kaisha. Multiplex stereo demodulator. 4,651,106, 3-17-87, Cl. 329-50.000.

Yokoyama, Kenji, to Nippon Gakki Seizo Kabushiki Kaisha. Device for forming a simulated stereophonic sound field. 4,653,096, 3-24-87, Cl. 381-17.000.

Yokoyama, Kenzou: *See*—
Kanda, Noboru; Yokoyama, Kenzou; Aoki, Ken-ichi; Akita, Shinji; Hatanaka, Masayuki; and Ode, Tatsuharu, 4,711,733, Cl. 252-29.000.

Yokoyama, Kiyoshi: *See*—
Horiuchi, Akito; Yokoyama, Kiyoshi; and Yoshida, Makoto, 4,716,133, Cl. 501-97.000.

Yokoyama, Koichi: *See*—
Nakaya, Keiichi; Tanaka, Kunio; and Yokoyama, Koichi, 4,652,437, Cl. 423-421.000.

Yokoyama, Kunio: *See*—
Shimura, Masatoshi; Yokoyama, Kunio; Anbo, Kuniaki; and Anzai, Kazuhiro, 4,652,937, Cl. 358-286.000.

Yokoyama, Makoto, to Kawamura Electric Industry Co., Ltd. Optical pulse receiving device. 4,692,687, 9-8-87, Cl. 323-284.000.

Yokoyama, Mamoru: *See*—
Kanamori, Jun; and Yokoyama, Mamoru, 4,686,173, Cl. 430-313.000.

Yokoyama, Masaaki: *See*—
Naito, Takanobu; Yokoyama, Masaaki; Sasaki, Kazuya; Yamamoto, Makoto; and Amemiya, Kouji, 4,691,014, Cl. 540-227.000.

Yokoyama, Masakazu: *See*—
Matsui, Saburo, 4,676,609, Cl. 351-118.000.

Yokoyama, Mikio: *See*—
Eto, Goro; Itoh, Shigeo; Yokoyama, Mikio; and Tonegawa, Takeshi, 4,666,548, Cl. 156-286.000.

Yokoyama, Naokata, to Ciba-Geigy Corporation. Certain ring-fused pyrazolo[3,4-d]-pyridin-3-one derivatives in treating anxiety. 4,647,566, 3-3-87, Cl. 514-293.000.

Yokoyama, Naoki, to Fujitsu Limited. High-speed semiconductor device. 4,712,121, 12-8-87, Cl. 357-4.000.

Yokoyama, Naruo: *See*—
Iida, Kozo; Nagano, Tsuneo; Yokoyama, Naruo; Obayashi, Yoshiaki; and Mitsuoka, Shigeaki, 4,656,147, Cl. 502-26.000.

Yokoyama, Nobuaki: *See*—
Imazeki, Kazuyoshi; and Yokoyama, Nobuaki, 4,679,245, Cl. 455-155.000.

Yokoyama, Nobuyoshi; and Hayakawa, Tsuneyasu, to Paloma Kogyo Kabushiki Kaisha. Pulse combustion device. 4,715,807, 12-29-87, Cl. 431-1.000.

Yokoyama, Nobuyuki: *See*—
Hakamatsuka, Yasuharu; and Yokoyama, Nobuyuki, 4,713,006, Cl. 433-201.100.

Yokoyama, Norio: *See*—
Kawana, Takahiro; and Yokoyama, Norio, 4,696,862, Cl. 428-336.000.

Yokoyama, Sadaji, and Suye, Shinichiro, to Takara Shuzo Co., Ltd. Method for producing reduced-form coenzyme. 4,661,448, 4-28-87, Cl. 435-90.000.

Yokoyama, Seishi, to Mitsubishi Denki Kabushiki Kaisha. Heat exchanger. 4,664,179, 5-12-87, Cl. 165-76.000.

Yokoyama, Shigeki; Inayama, Takayuki; Sugimoto, Naohiko; and Naoi, Takashi, to Fuji Photo Film Co., Ltd. Silver halide photographic element containing crosslinked copolymers. 4,677,050, 6-30-87, Cl. 430-536.000.

Yokoyama, Shigeki: *See*—
Mukunoki, Yasuo; Yokoyama, Shigeki; Kawasaki, Hiroshi; Nemori, Ryoichi; and Takeuchi, Tetsuo, 4,649,102, Cl. 430-527.000.
Yamaoka, Noboru; Yokoyama, Shigeki; Matsuura, Kazuo; Misumi, Kozo; Watanabe, Junichi; and Kadomatsu, Seiji, 4,704,439, Cl. 525-334.100.

Yokoyama, Shigeyoshi: *See*—
Fukazawa, Tetsuo; and Yokoyama, Shigeyoshi, 4,676,714, Cl. 415-72.000.
Fukazawa, Tetsuo; and Yokoyama, Shigeyoshi, 4,708,585, Cl. 415-72.000.

Yokoyama, Shizuo: *See*—
Hirota, Tetsuro; Araki, Shigeyuki; Yokoyama, Shizuo; Masui, Haruyoshi; and Hirata, Toshitaka, 4,661,822, Cl. 346-75.000.

Yokoyama, Shoh, to Tachikawa Spring Co., Ltd. Seat frame for automobile seats. 4,673,215, 6-16-87, Cl. 297-452.000.

Yokoyama, Shoichiro: *See*—
Ikari, Yoshikatsu; Yokoyama, Shoichiro; Ohama, Chiaki; and Fukui, Ryosuke, 4,670,288, Cl. 427-4.000.

Yokoyama, Shoji; and Miki, Nobuaki, to Aisin-Warner Limited; and Toyota Motor Corporation. Lock-up clutch controller for the fluid coupling of an automotive automatic transmission. 4,664,235, 5-12-87, Cl. 192-3.290.

Yokoyama, Shoji, to Aisin-Warner Kabushiki Kaisha. Reduction ratio controlling mechanism for a continuously variable automatic transmission of a vehicle. 4,699,604, 10-13-87, Cl. 474-18.000.

Yokoyama, Shotaro; and Nishibe, Takashi, to Fuji Electric Corporate Research and Development Co., Ltd.; and Fuji Electric Co., Ltd. Image data comparison circuit for rangefinders. 4,640,613, 2-3-87, Cl. 356-1.000.

Yokoyama, Shotaro; and Nishibe, Takashi, to Fuji Electric Corporate Research & Development Co. Ltd.; and Fuji Electric Co., Ltd. Automatic focusing apparatus. 4,659,205, 4-21-87, Cl. 354-408.000.

Yokoyama, Shotaro: *See*—
Suzuki, Kizuo; Isoguchi, Seiichi; Watanabe, Koji; Yokoyama, Shotaro; and Nishibe, Takashi, 4,652,119, Cl. 356-1.000.
Suzuki, Kiziro; Tsutsumi, Takashi; Yokoyama, Shotaro; and Nishibe, Takashi, 4,668,084, Cl. 356-1.000.

Yokoyama, Tadamasa, deceased: *See*—
Fujiwara, Kazuo; Torii, Yasushi; Kitahata, Koujiro; Inoue, Tsuyoshi; and Yokoyama, Tadamasa, deceased, 4,689,198, Cl. 420-47.000.

Yokoyama, Tadashi; Kaizuka, Toshio; Naito, Junichi; Numazawa, Kenichi; Ohashi, Minoru; and Kikuchi, Tomoo, to Oriental Yeast Co., Ltd.; and Central Kagaku Co., Ltd. Stirring device for automatically measuring dissolved oxygen. 4,665,736, 5-19-87, Cl. 73-19.000.

Yokoyama, Takanori: *See*—
Fukunaga, Yasushi; Kuzunuki, Soshiro; Shojima, Hiroshi; Yokoyama, Takanori; Koga, Kazuyoshi; Hirasawa, Kotaro; and Kawada, Shinichi, 4,641,354, Cl. 382-13.000.
Kuzunuki, Soshiro; Shojima, Hiroshi; Yokoyama, Takanori; Fukunaga, Yasushi; and Hirasawa, Kotaro, 4,680,804, Cl. 382-13.000.

Yokoyama, Takashi: *See*—
Honkura, Yoshinobu; Murata, Kouji; and Yokoyama, Takashi, 4,705,581, Cl. 148-307.000.
Honkura, Yoshinobu; Murata, Kouji; and Yokoyama, Takashi, 4,714,502, Cl. 148-307.000.

Yokoyama, Takeo, to Showa Electric Wire & Cable Co., Ltd. Solid ultrasonic delay line. 4,684,906, 8-4-87, Cl. 333-143.000.

Yokoyama, Takeo: *See*—
Murata, Yasuzo; Yokoyama, Takeo; Wada, Hiroyuki; and Sakurai, Masaaki, 4,707,593, Cl. 235-487.000.

Yokoyama, Takeshi. Condensate separating and discharging device with apertured float cover. 4,685,486, 8-11-87, Cl. 137-179.000.

Yokoyama, Tamio: *See—*
- Ishige, Masafumi; Kanemoto, Yoshitaka; Yokoyama, Tamio; and Sato, Ichitaro, 4,661,842, Cl. 358-36.000.
- Nakayama, Toshiaki; Kohama, Tokio; Okada, Isamu; and Yokoyama, Tamio, 4,702,940, Cl. 427-244.000.

Yokoyama, Tatsuichi; and Takahashi, Kazutami, to Tamagawa Machinery Co., Ltd. Driving apparatus for powder compacting press. 4,662,234, 5-5-87, Cl. 74-393.000.

Yokoyama, Tetsuo: *See—*
- Morishita, Koichi; Omori, Shinji; Yamagata, Shimbu; Yokoyama, Tetsuo; Sano, Koichi; and Ogushi, Akira, 4,644,582, Cl. 382-6.000.
- Sano, Koichi; Yokoyama, Tetsuo; Yamagata, Shimbu; and Haruna, Koichi, 4,644,278, Cl. 324-309.000.

Yokoyama, Toshinobu; Watanabe, Sadao; and Kurata, Takatsugu, to Matsushita Electric Industrial Co., Ltd. Vibration damping means for the line cathodes of an image display apparatus. 4,714,863, 12-22-87, Cl. 315-366.000.

Yokoyama, Touru: *See—*
- Fuji, Setsuro; Yokoyama, Touru; Ikegaya, Kouji; Yokoo, Nobuo; and Nagakura, Masahiko, 4,639,435, Cl. 514-11.000.

Yokoyama, Yasushi: *See—*
- Terano, Minoru; Yokoyama, Yasushi; Inoue, Masuo; and Miyoshi, Katsuyoshi, 4,640,906, Cl. 502-104.000.

Yokoyama, Yasuyuki; Nakamura, Kiyoaki; Ota, Hiroshi; and Fujioka, Koichiro, to Iwatsu Electric Co., Ltd. Photosensitive paper conveying device of a copying machine. 4,681,313, 7-21-87, Cl. 271-273.000.

Yokoyama, Yoichi; Hamaguchi, Hiroaki; and Yamamoto, Masatoshi, to Matsushita Electric Works, Ltd. Remotely controllable relay. 4,703,294, 10-27-87, Cl. 335-121.000.

Yokoyama, Yoshihiro; Kamon, Yoshiyuki; and Kakiuchi, Tsutomu, to Sony Corporation. Headphone. 4,668,842, 5-26-87, Cl. 381-183.000.

Yokoyama, Yoshimasa. Writing training device. 4,669,986, 6-2-87, Cl. 434-164.000.

Yokoyama, Yukio; Kimura, Katsuji; and Goto, Naohisa, to NEC Corporation; and Goto, Naohisa. Portable radio communication apparatus comprising an antenna member for a broad-band signal. 4,641,366, 2-3-87, Cl. 455-89.000.

Yokoyama, Yukio, to NEC Corporation. Combination microstrip and unipole antenna. 4,644,361, 2-17-87, Cl. 343-700.0MS.

Yokoyama, Yukio: *See—*
- Kimura, Katsuji; Kasai, Yoshihiko; Yokoyama, Yukio; Yamasaki, Koji; and Sato, Toshifumi, 4,680,553, Cl. 330-2.000.

Yokoyama, Yutaka: *See—*
- Shinozaki, Fumihiko; and Yokoyama, Yutaka, 4,664,830, Cl. 252-62.200.
- Shinozaki, Fumihiko; and Yokoyama, Yutaka, 4,670,175, Cl. 252-62.200.
- Shinozaki, Fumihiko; and Yokoyama, Yutaka, 4,708,811, Cl. 252-62.200.
- Shinozaki, Fumihiko; and Yokoyama, Yutaka, 4,710,310, Cl. 252-62.200.

Yokoyama, Yuuichi; Masuhara, Eiichi; Kadoma, Yoshinori; Tarumi, Niro; and Tsuchiya, Makoto. Soft contact lens. 4,650,843, 3-17-87, Cl. 526-245.000.

Yokozawa, Norio: *See—*
- Takasugi, Wasao; Shinomura, Ryuichi; and Yokozawa, Norio, 4,680,498, Cl. 310-319.000.

Yokozeki, Akimichi: *See—*
- Connon, Helen A.; Gorski, Robert A.; Kenyon, William G.; and Yokozeki, Akimichi, 4,715,900, Cl. 134-31.000.

Yokozeki, Kenzo; and Kubota, Koji, to Ajinomoto Company Incorporated. Method of producing L-carnitine. 4,650,759, 3-17-87, Cl. 435-128.000.

Yokozeki, Kenzo; Majima, Eiji; Hirose, Yoshiteru; Sato, Takeru; and Yukawa, Toshihide, to Ajinomoto Co., Inc. Process for the production of L-aspartyl-L-phenylalanine esters. 4,666,838, 5-19-87, Cl. 435-70.000.

Yokozeki, Kenzo; and Kubota, Koji, to Ajinomoto Company, Incorporated. Process for the production of L-aspartyl-L-phenylalanine methy ester or L-aspartyl-L-phenylalanine. 4,711,846, 12-8-87, Cl. 435-70.000.

Yoldas, Bulent E.; and Partlow, Deborah P., to United States of America, Air Force. Low temperature formation of mullite using silicon alkoxide and aluminum alkoxide. 4,687,652, 8-18-87, Cl. 423-327.000.

Yole, Steven S.: *See—*
- Gontowski, Walter S., Jr.; Metro, John G.; and Yole, Steven S., 4,670,721, Cl. 331-44.000.

Yolken, Robert H. Microbial enzyme assays. 4,713,328, 12-15-87, Cl. 435-18.000.

Yomoda, Minoru; and Yamamura, Mitsugu, to Canon Kabushiki Kaisha. Projection optical device. 4,669,842, 6-2-87, Cl. 353-101.000.

Yomoda, Minoru: *See—*
- Miyazaki, Makoto; Yomoda, Minoru; and Suzuki, Takehiko, 4,635,373, Cl. 33-180.00R.
- Sato, Mitsuya; and Yomoda, Minoru, 4,659,227, Cl. 356-401.000.

Yonai, Tadao: *See—*
- Kato, Yukio; Komori, Mikio; and Yonai, Tadao, 4,677,993, Cl. 131-280.000.

Yonamine, Shigeru: *See—*
- Araki, Mikio; Yonamine, Shigeru; and Yukawa, Kouichi, 4,702,163, Cl. 101-35.000.

Yonamine, Shozen: *See—*
- Ikeda, Sakio; and Yonamine, Shozen, 4,691,717, Cl. 131-365.000.

Yoneda, Aritoshi, to Horiba, Ltd. Calibrating mechanism of an infrared analyzer. 4,673,812, 6-16-87, Cl. 250-252.100.

Yoneda, Hajime: *See—*
- Fujiwara, Makoto; Yoneda, Hajime; and Okamoto, Masafumi, 4,709,303, Cl. 361-433.000.

Yoneda, Haruaki; and Hiramatsu, Takeo, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha; and Nippon Jidosha Eng. Kabushiki Kaisha. Slip clutch device control method. 4,660,697, 4-28-87, Cl. 192-0.033.

Yoneda, Hiroshi: *See—*
- Koike, Hiroshi; Katada, Hiroshi; and Yoneda, Hiroshi, 4,715,351, Cl. 123-590.000.

Yoneda, Hitoshi: *See—*
- Saito, Tutomu; and Yoneda, Hitoshi, 4,694,310, Cl. 346-153.100.
- Sekizawa, Hidekazu; Iwamoto, Akito; Yamamoto, Naofumi; and Yoneda, Hitoshi, 4,661,843, Cl. 358-80.000.

Yoneda, Katsuki, to Satoh Seiki Co. Ltd. Device for traveling a cloth clamp in an automatic sewing machine. 4,669,404, 6-2-87, Cl. 112-121.120.

Yoneda, Katsuki, to Satoh Seiki Co., Ltd. Preparatory devices for a pocket sewing machine. 4,711,188, 12-8-87, Cl. 112-104.000.

Yoneda, Kazuhiko, to Kabushiki Kaisha Daikin Seisakusho. Structure for supporting a diaphragm spring in a clutch. 4,633,989, 1-6-87, Cl. 192-70.270.

Yoneda, Kazuhiko; Kitano, Seiichi; and Fukuda, Yoshimitu, to Kabushiki Kaisha Daikin Seisakusho. Wet clutch disc. 4,643,289, 2-17-87, Cl. 192-106.200.

Yoneda, Norihiko; Fukuhara, Tsuyoshi; and Nozawa, Seiichi, to Mitsubishi Chemical Industries Limited. Catalytic preparation of aromatic polyketone from phosgene and aromatic ether or sulfide. 4,707,536, 11-17-87, Cl. 528-198.000.

Yoneda, Rikizo. Water ejecting gun. 4,664,313, 5-12-87, Cl. 239-456.000.

Yoneda, Shiyouzou: *See—*
- Munakata, Chusuke; Yagi, Kunihiro; Miyazaki, Masaru; and Yoneda, Shiyouzou, 4,672,578, Cl. 365-118.000.

Yoneda, Tadashi: *See—*
- Komaki, Akio; Hayakawa, Takumi; Yoneda, Tadashi; Mura, Asahiko; Wada, Hironao; Matsuhayashi, Satoshi; and Takemae, Arihiko, 4,652,505, Cl. 429-131.000.

Yoneda, Takao; and Sakakibara, Yasuji, to Toyoda Koki Kabushiki Kaisha. Interactive numerical controller for a machine tool. 4,648,025, 3-3-87, Cl. 364-171.000.

Yoneda, Takao; and Nakano, Hiroshi, to Toyoda Koki Kabushiki Kaisha. Numerical control apparatus for machine. 4,654,233, 9-15-87, Cl. 318-569.000.

Yoneda, Takao; Ogasawara, Tadashi; Ohta, Norio; and Sakakibara, Yasuji, to Toyoda Koki Kabushiki Kaisha. Numerically controlled grinding machine. 4,709,509, 12-1-87, Cl. 51-165.710.

Yoneda, Toshihiko: *See—*
- Ohmi, Masatoshi; Yoneda, Toshihiko; and Uchiyama, Kazuo, 4,649,876, Cl. 123-302.000.
- Ohmi, Masatoshi; Yoneda, Toshihiko; and Uchiyama, Kazuo, 4,702,203, Cl. 123-52.0MV.

Yoneda, Toshikazu: *See—*
- Katsuno, Hisashi; Murakawa, Takashi; and Yoneda, Toshikazu, 4,681,865, Cl. 502-74.000.

Yoneda, Yasuhiro: *See—*
- Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; and Nishi, Kota, 4,657,843, Cl. 430-323.000.
- Fukuyama, Shun-ichi; Yoneda, Yasuhiro; Miyagawa, Masashi; Nishi, Kota; and Matsuura, Azuma, 4,670,299, Cl. 427-96.000.

Yoneda, Yosuke: *See—*
- Konta, Yukio; and Yoneda, Yosuke, 4,702,720, Cl. 446-448.000.

Yoneda, Yushin. Method of manufacturing an ignition file for a lighter. 4,702,152, 10-27-87, Cl. 72-338.000.

Yonehara, Jun: *See—*
- Ito, Kazuhiko; Yonehara, Jun; Tanigawa, Yoshinari; and Yamaguchi, Minoru, 4,651,814, Cl. 165-47.000.

Yonehara, Takashi; and Hayashi, Kanji. Method and apparatus for forming an extremely thin film on the surface of an object. 4,656,963, 4-14-87, Cl. 118-326.000.

Yonehata, Yuzuru: *See—*
- Tanaka, Minoru; and Yonehata, Yuzuru, 4,678,932, Cl. 307-613.00.

Yonekawa, Masao: *See—*
- Kamei, Eiichi; Namba, Hideaki; Takao, Mitsunori; Ohba, Masahiro; Yonekawa, Masao; and Kiyono, Masashi, 4,653,449, Cl. 123-478.000.

Yonekubo, Hiroaki: *See—*
- Kidouchi, Yasuo; and Yonekubo, Hiroaki, 4,711,392, Cl. 236-12.120.

Yonekubo, Ken: *See—*
- Inoue, Yasuo; Yonekubo, Ken; Yamagishi, Masaaki; and Enki, Itaru, 4,685,776, Cl. 350-502.000.
- Togino, Takayosi; Kobayashi, Yuko; and Yonekubo, Ken, 4,682,859, Cl. 350-414.000.

Yonekura, Katsuyoshi; Uchiyama, Akira; and Matsuda, Akira, to Mitsui Petrochemical Industries, Ltd. Thermoplastic elastomer composition and process for preparation thereof. 4,650,830, 3-17-87, Cl. 525-193.000.

Yonekura, Katsuyoshi; Uchiyama, Akira; and Matsuda, Akira, to Mitsui Petrochemical Industries, Ltd. Laminate excellent in surface gloss and surface harness, and preparation process and use thereof. 4,656,098, 4-7-87, Cl. 428-517.000.

Yonekura, Koji; Suzuki, Kenichi; Takahashi, Yoshiyasu; and Iwahori, Hiroaki, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Method of preparing composite aluminum material. 4,643,241, 2-17-87, Cl. 164-101.000.

Yonekura, Mikio: *See*—
Isobe, Shinichi; and Yonekura, Mikio, 4,635,183, Cl. 364-141.000.
Yonemochi, Katsutoshi: *See*—
Sakagaito, Yukuo; Yonemochi, Katsutoshi; Kawata, Koichi; and Masaki, Takeshi, 4,691,998, Cl. 350-616.000.
Yonemoto, Kenji, to Toyota Jidosha Kabushiki Kaisha. Automobile suspensions. 4,635,958, 1-13-87, Cl. 280-664.000.
Yonemoto, Masashi, to Mitsubishi Denki Kabushiki Kaisha. Apparatus for operating an elevator. 4,677,361, 6-30-87, Cl. 318-805.000.
Yonemoto, Masashi, to Mitsubishi Denki Kabushiki Kaisha. Control apparatus for elevator. 4,713,595, 12-15-87, Cl. 318-759.000.
Yonemura, Hideo: *See*—
Okada, Kenichi; Asao, Hiroshi; and Yonemura, Hideo, 4,676,088, Cl. 72-342.000.
Yonemura, Masaaki: *See*—
Kusuda, Takao; Mihara, Toshihiro; Yonemura, Masaaki; and Kuwano, Satoshi, 4,652,286, Cl. 55-523.000.
Yonese, Naoki: *See*—
Omatsu, Masayuki; Yonese, Naoki; and Kondo, Mitsuru, 4,713,488, Cl. 564-397.000.
Yonetani, Yukio: *See*—
Harada, Hiroshi; Matsushita, Yoshihiro; Nakamura, Masahisa; and Yonetani, Yukio, 4,659,709, Cl. 514-229.000.
Yonex Kabushiki Kaisha: *See*—
Yoneyama, Minoru, 4,635,941, Cl. 273-78.000.
Yoneyama, Minoru, 4,667,963, Cl. 273-169.000.
Yoneya, Satoru: *See*—
Kawata, Hirotsu; Aruga, Masayoshi; Ohmura, Tadayoshi; Sonobe, Takashi; Yoneya, Satoru; and Sone, Chiharu, 4,673,564, Cl. 424-494.000.
Yoneyama, Goro: *See*—
Kumasaka, Sadao; Tada, Satomi; Fujii, Osamu; Yoneyama, Goro; and Idei, Masao, 4,666,393, Cl. 425-204.000.
Yoneyama, Kimiya: *See*—
Kobayashi, Masashi; Takahashi, Keishi; and Yoneyama, Kimiya, 4,691,258, Cl. 360-97.000.
Yoneyama, Masaya: *See*—
Yachida, Yoichi; and Yoneyama, Masaya, 4,648,104, Cl. 377-54.000.
Yoneyama, Minoru, to Yonex Kabushiki Kaisha. Golf club head. 4,635,941, 1-13-87, Cl. 273-78.000.
Yoneyama, Minoru, to Yonex Kabushiki Kaisha. Golf club head. 4,667,963, 5-26-87, Cl. 273-169.000.
Yoneyama, Mitsuhiro: *See*—
Matsushita, Osami; Takagi, Michiyuki; Yoneyama, Mitsuhiro; and Sugaya, Toyomi, 4,697,128, Cl. 318-607.000.
Yoneyama, Shinji: *See*—
Narishige, Eiichi; and Yoneyama, Shinji, 4,679,976, Cl. 414-4.000.
Narishige, Eiichi; and Yoneyama, Shinji, 4,700,584, Cl. 74-479.000.
Yoneyama, Takao: *See*—
Sato, Ichiya; Yoneyama, Takao; Tanabe, Masanori; Kawakami, Kanji; Okada, Hisao; Sasaki, Seiji; Inose, Shigeru; Suto, Mareo; and Uzuhashi, Hideo, 4,665,282, Cl. 178-18.000.
Sato, Ichiya; and Yoneyama, Takao, 4,669,315, Cl. 73-660.000.
Yoneyama, Takashi: *See*—
Miyoshi, Takahito; Aoki, Nobuo; Yoneyama, Takashi; Kasuga, Akira; Okuto, Toshimitu; Fujiyama, Masaaki; and Okuzawa, Yasutoshi, 4,696,859, Cl. 428-323.000.
Ryoke, Katsumi; Takahashi, Masatoshi; Yoneyama, Takashi; Nishikawa, Yasuo; and Tadokoro, Eiichi, 4,693,929, Cl. 428-323.000.
Yoneyama, Takeshi, to Nippon Athletic Industry Company. Electrotherapeutical device. 4,633,888, 1-6-87, Cl. 128-784.000.
Yoneyama, Yasuo: *See*—
Yano, Takashi; and Yoneyama, Yasuo, 4,683,352, Cl. 200-6.00R.
Yoneyama, Yoshio: *See*—
Inaba, Mitsuharu; Sekiguchi, Takashi; Yoneyama, Yoshio; and Suzuki, Tadashi, 4,639,182, Cl. 414-543.000.
Yonezawa, Atsushi: *See*—
Iwano, Hiroshi; Yamamoto, Tadahiro; Ota, Tadaki; Ogane, Hiroshi; Ohnishi, Eiichi; and Yonezawa, Atsushi, 4,699,110, Cl. 123-472.000.
Yonezawa, Ichiro: *See*—
Shirakura, Akira; Yonezawa, Ichiro; and Yokokura, Shuichi, 4,676,379, Cl. 209-599.000.
Yonezawa, Kazuya: *See*—
Tomita, Haruo; Okamoto, Yasuo; and Yonezawa, Kazuya, 4,709,062, Cl. 549-553.000.
Yonezawa, Kazuyoshi: *See*—
Okutsu, Hideo; Mikami, Koushirou; Yonezawa, Kazuyoshi; and Ichikawa, Kuniharu, 4,701,595, Cl. 219-364.000.
Yonezawa, Ryohei: *See*—
Masuda, Senichi; Yonezawa, Ryohei; and Toida, Kiyoshi, 4,652,281, Cl. 55-130.000.
Yonezawa, Seiji, to Hitachi, Ltd. Optical disk cutting apparatus using multiple beams. 4,646,279, 2-24-87, Cl. 369-46.000.
Yonezawa, Seiji; Kanazawa, Yasunori; and Tsuyoshi, Toshiaki, to Hitachi, Ltd.; and Hitachi Maxell Ltd. Apparatus and record carrier for optically writing information. 4,703,408, 10-27-87, Cl. 369-44.000.
Yonezawa, Seiji; Ohtake, Masatoshi; Ito, Masaru; Tsuyoshi, Toshiaki; Ichino, Kazuo; and Nakagaki, Harushige, to Hitachi, Ltd. Method and apparatus for composite wobbled and push-pull tracking servo system. 4,707,816, 11-17-87, Cl. 369-44.000.
Yonezawa, Seiji: *See*—
Tatsuno, Kimio; Kataoka, Keiji; and Yonezawa, Seiji, 4,688,880, Cl. 350-3.720.
Tsuyoshi, Toshiaki; Yonezawa, Seiji; Kasai, Masuo; and Uno, Motoo, 4,710,909, Cl. 369-46.000.
Yonezawa, Takeshi: *See*—
Takagi, Haruyuki; and Yonezawa, Takeshi, 4,687,942, Cl. 250-556.000.
Yonezawa, Taketoshi: *See*—
Kurokawa, Hideo; Mitani, Tsutomu; and Yonezawa, Taketoshi, 4,645,977, Cl. 315-111.210.
Nomura, Noboru; Kugimiya, Koichi; Matsumara, Takayoshi; and Yonezawa, Taketoshi, 4,636,077, Cl. 356-156.000.
Yonezawa, Toshio; Sasaguri, Nobuya; Onimura, Kichiro; Susukida, Hiroshi; Kawaguchi, Katsuji; Nagano, Hiroo; Minami, Takao; Yamanaka, Kazuo; Okada, Yasutaka; and Inoue, Mamoru, to Mitsubishi Jukogyo Kabushiki Kaisha; and Sumitomo Metal Industries, Ltd. Method for thermal treatment of nickel based alloy materials. 4,710,237, 12-1-87, Cl. 148-13.000.
Yonezawa, Toshio: *See*—
Abe, Masahiro; Aoyama, Masaharu; Ajima, Takashi; and Yonezawa, Toshio, 4,636,832, Cl. 357-68.000.
Minami, Takao; Nagano, Hiroo; Yamanaka, Kazuo; Okada, Yasutaka; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; and Sasaguri, Nobuya, 4,715,909, Cl. 148-410.000.
Takahashi, Kouichi; Ishida, Hidekuni; and Yonezawa, Toshio, 4,667,218, Cl. 357-63.000.
Yamanaka, Kazuo; Nagano, Hiroo; Minami, Takao; Okada, Yasutaka; Inoue, Mamoru; Susukida, Hiroshi; Onimura, Kichiro; Yonezawa, Toshio; Sasaguri, Nobuya; Kawaguchi, Katsuji; and Kusakabe, Takaya, 4,714,501, Cl. 148-13.000.
Yonezawa, Yasuo: *See*—
Anno, Yasuhiro; and Yonezawa, Yasuo, 4,634,237, Cl. 350-427.000.
Yonezu, Kiyoshi: *See*—
Aoyama, Akimasa; Moritani, Takeshi; Yonezu, Kiyoshi; Negi, Taichi; and Okaya, Takuji, 4,713,296, Cl. 428-412.000.
Okaya, Takuji; Tanaka, Yoshinari; Yonezu, Kiyoshi; Aoyama, Akimasa; and Moritani, Takeshi, 4,636,551, Cl. 525-60.000.
Yonezu, Kunio; Nitta, Hidetsugu; and Tsubota, Masaharu, to Japan Storage Battery Company Limited. Specific gravity detecting device for lead-acid battery. 4,689,571, 8-25-87, Cl. 324-432.000.
Yonezu, Ryo; and Sakashita, Kazuhiro, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor memory device. 4,638,461, 1-20-87, Cl. 365-189.000.
Yonezu, Ryo; and Sakashita, Kazuhiro, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor memory device with a controlled precharging arrangement. 4,644,500, 2-17-87, Cl. 365-189.000.
Yong-Hung, Lin: *See*—
Kuo-Ching, Huang; and Yong-Hung, Lin, 4,694,866, Cl. 139-13.00R.
Yong-Min, Wang. Universal system of encoding chinese characters and its keyboard. 4,684,926, 8-4-87, Cl. 340-365.00R.
Yong O. Shin. Vehicle protective cover device. 4,657,298, 4-14-87, Cl. 296-136.000.
Yong, Putt C.: *See*—
Ching, Steve; Babbitt, Frank, Jr.; Merchant, Adnan; and Yong, Putt C., 4,633,582, Cl. 29-827.000.
Yongli, Zhang: *See*—
Yuan, Ren; Xianzhi, Chen; Yuanxi, Feng; Guojiu, Li; Dake, Huang; Yongli, Zhang; and Quanzhong, Sun, 4,701,689, Cl. 322-19.000.
Yonkers, Edward H.: *See*—
McCreedy, Kathleen M.; Keskkula, Henno; Pawloski, James C.; and Yonkers, Edward H., 4,678,833, Cl. 525-66.000.
Seiss, Randolph H.; and Yonkers, Edward H., 4,716,197, Cl. 525-75.000.
Yonovich, John R., to Caldwell Manufacturing Company. Spring system for double-hung window sash. 4,685,175, 8-11-87, Cl. 16-197.000.
Yoo, Bok-Ryul: *See*—
Jung, Il N.; Cho, Ko D.; Lim, John C.; and Yoo, Bok-Ryul, 4,701,430, Cl. 502-62.000.
Yoo, Byung Kwon. Drinking water dispenser with cup supporting assembly. 4,646,798, 3-3-87, Cl. 141-377.000.
Yoo, Jae K.; and Choi, Moo W. Portable table. 4,653,804, 3-31-87, Cl. 297-159.000.
Yoo, Jin S.; and Jaecker, John A., to Katalistiks, Inc. Process for conversion of hydrocarbons. 4,642,178, 2-10-87, Cl. 208-113.000.
Yoon, Hee K., to Johnson & Johnson Products Inc. Fast-setting casting tape. 4,655,208, 4-7-87, Cl. 128-156.000.
Yoon, Hee K.: *See*—
Buese, George J.; and Yoon, Hee K., 4,668,563, Cl. 428-230.000.
Kammerer, Gene W.; Yoon, Hee K.; and Sun, Robert Li-Jiun, 4,690,842, Cl. 428-35.000.
Yoon, Heeyoung, to Conoco Inc. Recycled sorbent flue gas desulfurization. 4,570,238, 6-2-87, Cl. 423-244.000.
Yoon, Hyun-Nam: *See*—
DeMartino, Ronald N.; Yoon, Hyun-Nam; Stamatoff, James B.; and Buckley, Alan, 4,694,066, Cl. 528-373.000.
Yoon, Ohjhong: *See*—
MacPhee, Colin A. A.; and Yoon, Ohjhong, 4,638,245, Cl. 324-51.000.
Yoon, Roe-Hoan; and Paul, A. Dilo. Apparatus for ferric ion treatment for removal of ash-forming mineral matter from coal. 4,655,896, 4-7-87, Cl. 204-263.000.
Yopp, Roger W.: *See*—
Adlam, Arthur H.; Wittbrodt, Donald R.; Scully, Andrew J.; Smith, Roger R.; Tuteja, Balbir S.; Currier, Theodore R.; George, Rita M.; Yopp, Roger W.; and Hussaini, Syed M., 4,671,162, Cl. 89-1.130.

Yorihisa, Yamaguchi, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument having a touch responsive control function. 4,674,382, 6-23-87, Cl. 84-1.010.

Yorinaga, Muneo; Yokoiwa, Sumiharu; and Yamaguchi, Hiroaki, to Nippondenso Co., Ltd. Vibration and acoustic wave detecting device employing a piezoelectric element. 4,658,650, 4-21-87, Cl. 73-654.000.

Yorinobu, Takino: *See*—
Sakuichi, Sakakibara; Yoshiaki, Tokuda; Tamio, Nagai; Yorinobu, Takino; and Tomiro, Arai, 4,685,810, Cl. 366-150.000.

Yorisue, Shozo; and Morimoto, Seiji, to Precision Fukuhara Works, Ltd. Dust removing device for circular knitting machine. 4,691,536, 9-8-87, Cl. 66-168.000.

Yorita, Hiroshi: *See*—
Sakakibara, Yasuyuki; Abe, Seiko; Tomita, Masahiro; Yorita, Hiroshi; Tanaka, Takeshi; and Igashira, Toshihiko, 4,705,003, Cl. 123-449.000.

Yorita, Tadahiro; Matsumoto, Haruo; and Nakatsuji, Itsuo, to Murata Manufacturing Co., Ltd. Electrical filter device. 4,680,560, 7-14-87, Cl. 333-206.000.

Yorita, Tadahiro: *See*—
Ishikawa, Youhei; Yorita, Tadahiro; and Yamashita, Sadao, 4,636,759, Cl. 333-223.000.
Nishikawa, Toshio; and Yorita, Tadahiro, 4,703,291, Cl. 333-202.000.

Yoritsune, Osamu: *See*—
Takeuchi, Hideo; Kobayashi, Michiaki; Yoritsune, Osamu; and Matsumoto, Takemasa, 4,694,749, Cl. 101-426.000.

York, Billie M., Jr., to Alcon Laboratories, Inc. 3-chloro-4-(4,5-dihydro-1H-imidazo-2-yl)-amino-5-alkylbenzoic acids, esters, salts, compositions and methods. 4,644,007, 2-17-87, Cl. 514-392.000.

York, Billie M., Jr.: *See*—
DuPriest, Mark T.; and York, Billie M., Jr., 4,659,733, Cl. 514-436.000.

York Industries, Inc.: *See*—
Brooks, Kenneth, 4,649,972, Cl. 144-361.000.

York International Corp.: *See*—
Maudlin, Wendell E., 4,673,850, Cl. 318-305.000.
Wills, Frank E., 4,706,180, Cl. 363-132.000.

York, James F.: *See*—
Marlin, Gary V.; and York, James F., 4,665,211, Cl. 558-78.000.

York, Kenneth K. Systems and methods for precise, accurate formation of products by photoablation. 4,678,422, 7-7-87, Cl. 425-174.400.

York, Merineth S. Fletching tool. 4,653,738, 3-31-87, Cl. 269-38.000.

York, Norman N. Apparatus for removing tree stumps. 4,681,145, 7-21-87, Cl. 144-2.00N.

York, Randall A.; and Gladding, Charles W., to FallLine Corporation. Packer bar assembly. 4,651,450, 3-24-87, Cl. 37-197.000.

York, Randall A. Modular ski rack. 4,678,087, 7-7-87, Cl. 211-70.500.

York, Theodore H.: *See*—
Keanon, Jerry M.; Faulkner, James V., Jr.; and York, Theodore H., 4,649,569, Cl. 455-67.000.
Vercellotti, Leonard C.; Verbanets, William R., Jr.; and York, Theodore H., 4,644,547, Cl. 371-69.000.

Yorkaanis, Bernard J.: *See*—
Craft, Jack; Low, Michael L.; and Yorkanis, Bernard J., 4,714,871, Cl. 323-315.000.

Yorke, Monica A., to Calgon Corporation. Polyelectrolyte and surfactant compositions for controlling alkaline earth metal scales. 4,671,888, 6-9-87, Cl. 252-180.000.

Yorozu, Hidenori: *See*—
Eguchi, Yasuteru; Yorozu, Hidenori; and Iijima, Eiji, 4,650,667, Cl. 424-44.000.
Eguchi, Yasuteru; and Yorozu, Hidenori, 4,666,707, Cl. 424-44.000.

Yoshiaki, Tokuda: *See*—
Sakuichi, Sakakibara; Yoshiaki, Tokuda; Tamio, Nagai; Yorinobu, Takino; and Tomiro, Arai, 4,685,810, Cl. 366-150.000.

Yoshida, Akio, to Canon Kabushiki Kaisha. Liquid crystal device. 4,666,253, 5-19-87, Cl. 350-334.000.

Yoshida, Akio: *See*—
Tsubai, Yasuo; Okazaki, Koji; and Yoshida, Akio, 4,643,962, Cl. 430-205.000.
Tsubai, Yasuo; Okazaki, Koji; Horii, Shoichi; and Yoshida, Akio, 4,649,096, Cl. 430-249.000.

Yoshida, Akira: *See*—
Hida, Yoshinori; Meguriya, Noriyuki; and Yoshida, Akira, 4,697,877, Cl. 350-96.300.
Takeda, Makoto; Iwane, Hiroshi; Yoshida, Akira; and Mori, Teruo, 4,700,008, Cl. 568-374.000.

Yoshida, Atsunori; Kaneko, Hideaki; and Ogino, Takao, to Nihon Parkerizing Co., Ltd. Surface treatment of aluminum and its alloys. 4,650,525, 3-17-87, Cl. 148-6.200.

Yoshida, Atsushi, to NEC Corporation. Method of and apparatus for determining time origin of timer for modem. 4,665,534, 5-12-87, Cl. 375-106.000.

Yoshida, Bunsaku; and Tomioka, Kentaro, to G-C Dental Industrial Corporation. Dental composite resin composition. 4,713,403, 12-15-87, Cl. 523-115.000.

Yoshida, Bunsaku: *See*—
Sato, Atsushige; Miura, Ishi; Kumei, Yasuhiro; Okuno, Osamu; Nakano, Tsuyoshi; and Yoshida, Bunsaku, 4,702,765, Cl. 75-0.50B.

Yoshida, Cyuryo: *See*—
Asada, Takafumi; Yoshida, Cyuryo; Shioyama, Tadao; and Kurose, Kazuyoshi, 4,706,143, Cl. 360-107.000.
Asada, Takafumi; Yoshida, Cyuryo; Shioyama, Tadao; and Hosokawa, Yoshiteru, 4,706,144, Cl. 360-107.000.

Yoshida, Daisuke; Tanno, Tomiya; and Fukunaga, Takeshi, to Kabushiki Kaisha Komatsu Seisakusho. Vehicle speed control system. 4,672,811, 6-16-87, Cl. 60-449.000.

Yoshida, Daisuke: *See*—
Mizusaki, Shigenobu; Yoshida, Daisuke; and Saito, Yutaka, 4,701,570, Cl. 568-821.000.

Yoshida, Eiichi, to Canon Kabushiki Kaisha. Image processing apparatus. 4,672,461, 6-9-87, Cl. 358-280.000.

Yoshida, Eiichi; Aoki, Nobuyoshi; Suzuki, Toshimitsu; Hongo, Akira; Ueda, Hideki; and Nakata, Issei, to Daiwa Can Company, Limited and Tcisan Kabushiki Kaisha. Method of manufacturing pressurized sealed containered food. 4,703,699, 11-3-87, Cl. 53-431.000.

Yoshida, Eiji: *See*—
Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; and Hosaka, Masumi, 4,659,654, Cl. 430-567.000.
Metoki, Iku; Suzuki, Akio; Yoshida, Eiji; Sato, Kiyoshi; Hosaka, Masumi; and Honda, Chika, 4,689,292, Cl. 430-567.000.

Yoshida, Fumio, to Mitsubishi Denki Kabushiki Kaisha. Simulator system. 4,654,812, 3-31-87, Cl. 364-578.000.

Yoshida, Fumio: *See*—
Inoue, Manabu; Fujino, Akihiko; Hirano, Masayasu; Naka Masaaki; and Yoshida, Fumio, 4,707,104, Cl. 354-412.000.

Yoshida, Hajime, to Hajime Industries Ltd. Bottle sidewall defect detector employing masking means. 4,682,023, 7-21-87, Cl. 250-223.00B.

Yoshida, Hajime, to Hajime Industries Ltd. Automatic inspection device. 4,692,800, 9-8-87, Cl. 358-106.000.

Yoshida, Hajime, to Hajime Industries, Ltd. Lighting device for inspecting objects for flaws. 4,697,076, 9-29-87, Cl. 250-223.00B.

Yoshida, Hajime: *See*—
Tate, Kazuhito; Yoshida, Hajime; and Yanagida, Kazuhi 4,670,129, Cl. 208-22.000.

Yoshida, Haruhiko: *See*—
Takemura, Tohru; Nakashima, Atushi; Yoshida, Haruhiko; Kam Jun; and Hamada, Eiichi, 4,639,353, Cl. 422-46.000.
Takemura, Tohru; Itoh, Hajime; Kamo, Jun; and Yoshi Haruhiko, 4,713,292, Cl. 428-373.000.

Yoshida, Haruo, to Kyocera Kabushiki Kaisha. Nonoxide ceram ball-point pen ball. 4,653,950, 3-31-87, Cl. 401-215.000.

Yoshida, Haruo: *See*—
Heeger, Alan J.; Yoshida, Haruo; Naito, Kazumi; and Kobaya Yukio, 4,657,694, Cl. 252-299.010.

Yoshida, Hideaki: *See*—
Hosoda, Naoyuki; Morikawa, Masaki; Uchiyama, Naoki; Yoshi Hideaki; and Ono, Toshiaki, 4,676,827, Cl. 75-65.0ZM.

Yoshida, Hideki; Shinohara, Koichi; and Suzuki, Takashi, to Matsush Electric Industrial Co., Ltd. Thin film magnetic recording me 4,673,617, 6-16-87, Cl. 428-323.000.

Yoshida, Hideo; and Kunita, Hisao, to Sharp Kabushiki Kaisha. Spe synthesizer integrated circuit. 4,635,211, 1-6-87, Cl. 364-513.500.

Yoshida, Hideo: *See*—
Masuzawa, Sigeaki; Yoshida, Hideo; and Saiji, Mituhiro, 4,700,5 Cl. 381-51.000.
Okada, Yoshinori; Watanabe, Hisaji; Fukushima, Isao; and Yoshi Hideo, 4,672,468, Cl. 358-310.000.

Yoshida, Hidetaka; and Haneda, Isamu, to Sharp Kabushiki Kais Battery-powered computer interface with manual and automa battery disconnect circuit. 4,667,289, 5-19-87, Cl. 364-200.000.

Yoshida, Hiroaki: *See*—
Nasu, Hisanori; Suzuki, Satoru; Yoshida, Hiroaki; Fukuda, Tom chi; and Soeda, Eiichi, 4,706,192, Cl. 364-413.000.
Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Ta Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masa shi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Go Masaki, 4,709,935, Cl. 280-91.000.

Yoshida, Hirohiko; and Natori, Minoru, to Citizen Watch Co. L Multicolor picture display device. 4,686,519, 8-11-87, Cl. 340-701.0

Yoshida, Hirokazu: *See*—
Nakatani, Hiroshi; Yoshida, Hirokazu; and Yamamura, Ko 4,710,680, Cl. 315-169.400.

Yoshida, Hiromi: *See*—
Nakagawa, Taizo; Tanaka, Eiichi; Koike, Kengo; Yoshida, Hiro and Yoshida, Hiroshi, 4,659,722, Cl. 514-332.000.

Yoshida, Hiromichi: *See*—
Kuwahara, Heikichi; Takahashi, Kenji; Yanagida, Takehiko; Na yama, Wataru; Sugimoto, Shigeo; Nakayama, Yoshihiko; shida, Hiromichi; Oizumi, Kiyoshi; Sasaki, Toshi; and Fuk Shigeho, 4,653,163, Cl. 29-157.30R.
Sasaki, Toshi; Yoshida, Hiromichi; Fukuda, Shigeho; Oizu Kiyoshi; Kakizaki, Kimio; Nakayama, Wataru; Daik Takahiro; Nakajima, Tadakatsu; and Nakayama, Yoshih 4,678,029, Cl. 165-133.000.

Yoshida, Hirono: *See*—
Toba, Shigeru; Yoshida, Hirono; and Tokita, Takehiko, 4,676, Cl. 424-485.000.

Yoshida, Hiroshi; and Hasegawa, Akira, to Yoshida Kogyo K. K. S fastener stringer having continuous thermo-plastic molded coup element strip. 4,639,981, 2-3-87, Cl. 24-401.000.

Yoshida, Hiroshi, to Yoshida Kogyo K. K. Surface-type faste 4,646,397, 3-3-87, Cl. 24-442.000.

Yoshida, Hiroshi; and Tsubokawa, Yoshitoki, to Yoshida Kogyo K Slide fastener. 4,651,389, 3-24-87, Cl. 24-433.000.

Yoshida, Hiroshi, to Mitsubishi Jidosha Kogyo Kabushiki Kai Power steering system. 4,651,622, 3-24-87, Cl. 91-370.000.

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Yoshida, Hiroshi: *See*—
Ebato, Kazuo; Osumi, Yasuaki; Tamura, Keiji; and Yoshida, Hiroshi, 4,661,415, Cl. 428-570.000.
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Konishi, Satoshi; Ohno, Hideo; Naruse, Yuji; and Yoshida, Hiroshi, 4,637,866, Cl. 204-129.000.
Nakagawa, Taizo; Tanaka, Eiichi; Koike, Kengo; Yoshida, Hiromi; and Yoshida, Hiroshi, 4,659,722, Cl. 514-332.000.

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Miyazaki, Kenji; Hagio, Tsuyoshi; Ogawa, Ichitaro; Yoshida, Hisayoshi; Kobayashi, Kazuo; Kashima, Kazutsugu; Tada, Takashi; Hayashi, Yoichiro; and Abe, Wataru, 4,637,884, Cl. 252-12.000.

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Yoshida, Hitoshi: *See*—
Ito, Noyuei; Atsumi, Kinya; Yoshida, Hitoshi; and Atsumi, Morihiro, 4,634,837, Cl. 219-270.000.
Miura, Yasunao; Yoshida, Hitoshi; Takeuchi, Yukihisa; and Ito, Kazuyuki, 4,670,304, Cl. 427-227.000.
Okajima, Atushi; Yoshida, Hitoshi; Takeuchi, Yukihisa; and Fukutani, Masanori, 4,695,301, Cl. 55-523.000.

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Yoshida, Ichirou: *See*—
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Yoshida Industry Co., Ltd.: *See*—
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Honma, Noriyuki; Nambu, Hiroaki; Yoshida, Isao; Higuchi, Hisayuki; and Yamaguchi, Kunihiko, 4,642,486, Cl. 307-463.000.
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Ito, Katsumi; Okuyama, Shigeaki; Nakamura, Norimi; Kuroiwa, Yoshizo; Fujiwara, Kouji; Nakamura, Kunisuke; Fujiwara, Osami; Yoshida, Jituo; and Kobayashi, Mitsugu, 4,671,376, Cl. 180-249.000.

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Yoshida, Katunori, to Nippon Light Metal Co., Ltd. Inspection car for bridge construction of a high level road. 4,690,247, 9-1-87, Cl. 182-63.000.

Yoshida, Kazuetsu: *See*—
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Yoshida, Kazuhiro, to Kabushiki Kaisha Komatsu Seisakusho. Hydraulic circuit system for use in hydraulically operated vehicles. 4,694,647, 9-22-87, Cl. 60-442.000.

Yoshida, Kazunori: *See*—
Egami, Tsuneyuki; Saito, Tsutomu; Ando, Mitosi; Hori, Ryuzou; Kamo, Takashi; and Yoshida, Kazunori, 4,636,648, Cl. 250-571.000.
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Yoshida, Kazuo: *See*—
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Koga, Tadao; Sugimori, Mitsuru; Terasaki, Masanori; Maenosono, Tsukasa; Tsushima, Satoru; Yoshida, Kazuo; Kuriwaki, Tetsusho; and Hirado, Miharu, 4,687,894, Cl. 219-10.430.
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Yoshida, Kenichi: *See*—
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Yoshida, Kenji, to Mitsubishi Denki Kabushiki Kaisha. Elevator remote control apparatus 4,673,911, 6-16-87, Cl. 187-100.000.

Yoshida, Kenzo: *See*—
Arakawa, Kazuo; Hayakawa, Naohiro; Yoshida, Kenzo; Tamura, Naoyuki; Nakanishi, Hiroshi; Yagi, Tetsuya; and Kuroiwa, Shintaro, 4,664,829, Cl. 252-52.00R.
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Yoshida, Kinji; and Iura, Kazuo, to Sumitomo Wiring Systems, Ltd. Wire twisting device. 4,704,855, 11-10-87, Cl. 57-58.540.

Yoshida, Kiyomitsu: *See*—
Haga, Takahiro; Toki, Tadaaki; Koyanagi, Toru; Okada, Hiroshi; Yoshida, Kiyomitsu; and Imai, Osamu, 4,645,761, Cl. 514-94.000.

Yoshida, Kiyoshi, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument with automatic musical accompaniment playing system. 4,706,538, 11-17-87, Cl. 84-1.030.

Yoshida, Kiyoshi: *See*—
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Ikemura, Akio; and Kajiki, Minoru, 4,643,246, Cl. 165-54.000.
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Ishii, Susumu; and Oda, Kiyoshi, 4,679,281, Cl. 24-422.000.
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Nagai, Yoshitaka; and Doguchi, Nobushige, 4,686,754, Cl. 29-418.000.

Ofusa, Masaatsu; and Ishihama, Toshio, 4,678,013, Cl. 139-384.00B.
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Watanabe, Kozo, 4,665,679, Cl. 53-131.000.
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Watanabe, Kozo; Kando, Akiyoshi; and Horita, Yoshiyuki, 4,711,020, Cl. 29-767.000.
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Yoshida, Koichi; and Kawai, Joji, to Mitsubishi Denki Kabushiki Kaisha. Analog-to-digital converter. 4,654,632, 3-31-87, Cl. 340-347.0AD.

Yoshida, Koichi; and Kawai, Joji, to Mitsubishi Denki Kabushiki Kaisha. Speed detection apparatus. 4,716,535, 12-29-87, Cl. 364-565.000.

Yoshida, Koichi: *See*—
Taniyama, Tadayoshi; and Yoshida, Koichi, 4,711,842, Cl. 435-68.000.

Yoshida, Koji, to Shin Meiwa Industry Co., Ltd. Terminal crimping machine. 4,715,099, 12-29-87, Cl. 29-33.00M.

Yoshida, Kozaburo: *See*—
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Yoshida, Kuniaki: *See*—
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Yoshida, Kunihiko; Koshi, Kenichi; and Ichii, Nobuhiko, to Hitachi Construction Machinery Co., Ltd. Fluid control valve apparatus. 4,706,932, 11-17-87, Cl. 251-31.000.

Yoshida, Kunio; Yamanaka, Chiyoe; Sasaki, Takatomo; and Shimomura, Osamu, to Osaka University. Electrodialytic method of growing water-soluble ionic crystal. 4,670,117, 6-2-87, Cl. 204-182.400.

Yoshida, Kyoji: *See*—
Sawada, Tsutomu; Yoshida, Kyoji; Takano, Shozo; and Fujikawa, Masanori, 4,664,658, Cl. 604-266.000.

Yoshida, Louis T.: *See*—
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Lew, Hyok S.; and Yoshida, Louis T., 4,703,659, Cl. 73-861.240.
Miller, Charles E.; Schlatter, Gerald L.; and Yoshida, Louis T., 4,679,947, Cl. 374-42.000.
Miller, Charles E.; Poland, Robert L.; and Yoshida, Louis T., 4,705,212, Cl. 236-54.000.

Yoshida, Makoto; Tano, Kazuhiro; Higuchi, Seizun; and Nakamura, Masato, to Nippon Steel Corporation. Hot-dipped galvanized steel sheet having excellent black tarnish resistance and process for producing the same. 4,663,245, 5-5-87, Cl. 428-632.000.

Yoshida, Makoto, to Aupac Co., Ltd. dc brushless electromagnetic rotary machine. 4,698,538, 10-6-87, Cl. 310-179.000.

Yoshida, Makoto: *See*—
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Yoshida, Mamoru; and Kamemoto, Mituo, to Toyota Jidosha Kabushiki Kaisha. Method of and apparatus for examining automotive headlamp. 4,634,275, 1-6-87, Cl. 356-121.000.

Yoshida, Mamoru: *See*—
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Yoshida, Manabu: *See*—
Nakano, Akihiko; Hibino, Takeshi; Takata, Hajime; and Yoshida, Manabu, 4,705,911, Cl. 136-251.000.

Yoshida, Masaaki; Yoshikawa, Ryoichi; Nagase, Naoki; and Yamada, Masanori, to Canon Kabushiki Kaisha. Electro-optic display device. 4,656,466, 4-7-87, Cl. 340-716.000.

Yoshida, Masaaki, to NEC Corporation. Semiconductor memory device with parallel addressing and data-correcting functions. 4,672,614, 6-9-87, Cl. 371-38.000.

Yoshida, Masaaki; Endo, Shigeki; Kisanuki, Shigeru; and Kakuzen, Hideo, to Sumitomo Electric Industries, Ltd. Apparatus for producing porous preforms for optical fibers. 4,713,107, 12-15-87, Cl. 65-157.000.

Yoshida, Masaaki: *See*—
Yamanishi, Toru; Kameo, Yuji; Yoshida, Masaaki; Yuto, Masao; and Tanaka, Chihaya, 4,655,545, Cl. 350-96.340.

Yoshida, Masafumi: *See*—
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Yoshida, Masahiko, to Sanai Co., Ltd. Apparatus for removing humidity from compressed air. 4,662,907, 5-5-87, Cl. 55-186.000.

Yoshida, Masahiro; and Oishi, Kanji, to Hitachi, Ltd. Semiconductor memory device having redundancy means. 4,656,610, 4-7-87, Cl. 365-200.000.

Yoshida, Masahiro; and Inumaru, Susumu, to Sumitomo Light Metal Industries, Ltd. Electromagnetic levitation casting. 4,694,886, 9-22-87, Cl. 164-467.000.

Yoshida, Masahiro: *See*—
Hirai, Yoichi; Fujii, Tsunenori; Koto, Kaoru; Suzuki, Kenji; Yoshida, Masahiro; Okawa, Hisashi; Okabe, Yoshiaki; Kitamura, Teruo; Yokokura, Hisao; Hattori, Shintaro; Makoh, Akio; and Sato, Mikio, 4,694,098, Cl. 560-59.000.
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Yoshida, Masaru; Asano, Masaharu; Kaetsu, Isao; Nakai, Katsuyuki; Yamanaka, Hidetoshi; Shida, Keizo; and Shiraishi, Akira, to Japan Atomic Energy Research Institute; Shida, Keizo; and Takeda Chemical Industries, Ltd. Slow-release composite and process for producing the same. 4,652,443, 3-24-87, Cl. 424-487.000.

Yoshida, Masaru: *See*—
Miyajima, Akira; Tsuzuki, Akira; Ohno, Hideshi; Futakami, Shigeru; Ogura, Takashi; Oguchi, Toshiaki; Yoshida, Masaru; Kimura, Satoshi; Takahashi, Kotaro; Sakamoto, Hiroya; and Nakajima, Koichi, 4,652,932, Cl. 358-236.000.
Ogura, Takashi; Tanaka, Koichi; Taniguchi, Koji; Yoshida, Masaru; and Mikami, Akiyoshi, 4,707,419, Cl. 428-690.000.
Ohno, Hideshi; Tsuzuki, Akira; Oguchi, Toshiaki; Futami, Shigeru; Yoshida, Masaru; Kimura, Satoshi; Uematsu, Hiroyuki; Nakajima, Kouichi; Matsuyama, Katuo; Sakamoto, Hiroya; Takayama, Yasuhiko; Matsumura, Osamu; and Sakaguchi, Toshio, 4,646,158, Cl. 358-236.000.

Yoshida, Masashi: *See*—
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Shiraki, Makoto; Yoshida, Masashi; and Matsuno, Jyunichi, 4,667,208, Cl. 346-76.0PH.
Takashima, Kiyoshi; Suzuki, Isao; Yoshida, Masashi; Tanaka, Ryutatsu; Masumitsu, Noriyuki; Kinoshita, Kazuhiro; and Ishi, Hiromi, 4,686,081, Cl. 420-29.000.

Yoshida, Masatoshi: *See*—
Sugiura, Shiro; Mori, Yoshikuni; Yoshida, Masatoshi; and Oshiumi, Ryoichi, 4,656,217, Cl. 524-430.000.

Yoshida, Masayoshi: *See*—
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Yoshida, Masayuki, to Pioneer Electronic Corporation. Switching circuit for a power supply in a signal processing apparatus. 4,639,665, 1-27-87, Cl. 323-266.000.

Yoshida, Masayuki: *See*—
Yoshio, Junichi; Hirano, Toshio; Yasukawa, Kenichiro; and Yoshida, Masayuki, 4,642,812, Cl. 381-1.000.

Yoshida, Michio: *See*—
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Yoshida, Michiyuki: *See*—
Sugiura, Masahiro; and Yoshida, Michiyuki, 4,707,930, Cl. 33-623.000.

Yoshida, Minoru: *See*—
Beppu, Teruhiko; Iwamoto, Yasushi; and Yoshida, Minoru, 4,690,918, Cl. 514-23.000.
Hirose, Kunio; Hukuta, Tadatoshi; Horiuchi, Hiroshi; Urakami, Toyozo; and Yoshida, Minoru, 4,670,801, Cl. 360-85.000.

Takao, Osamu; Yoshida, Minoru; and Ono, Seiichi, 4,672,479, Cl. 360-95.000.
Yaotani, Kouichi; Nakada, Fumio; Tanaka, Takao; and Yoshida, Minoru, 4,637,767, Cl. 411-411.000.
Yoshida, Mitsuo; Mizuno, Yoshikuni; Shimizu, Natsue; Otsuka, Mieko; Dobutsu, Masakatsu; Furukawa, Yuusuke; and Joshita, Yutaka, to Sumitomo Pharmaceuticals Company, Limited. Therapeutic drug for dementia. 4,690,949, 9-1-87, Cl. 514-561.000.
Yoshida, Morttaka, to Toyota Jidosha Kabushiki Kaisha. Tiltable steering column with adjustable locking pawl. 4,656,887, 4-14-87, Cl. 74-493.000.
Yoshida, Motoaki: *See*—
Funaki, Masaaki; Ohtani, Noboru; Yoshida, Motoaki; Fujioka, Akira; and Sakiyama, Kazuo, 4,642,266, Cl. 428-412.000.
Yoshida, Motohiko, to Alps Electric Co., Ltd. Keyboard apparatus. 4,677,600, 6-30-87, Cl. 367-127.000.
Yoshida, Motoko: *See*—
Itoh, Michio; Ishikawa, Isao; Yoshida, Motoko; and Okano, Kazunori, 4,666,581, Cl. 204-299.00R.
Yoshida, Naoki; and Kobayashi, Nobutoshi, to Yamato Scientific Co., Ltd. Temperature controller system. 4,692,598, 9-8-87, Cl. 219-497.000.
Yoshida, Naoyuki; Kitano, Kisei; Furukawa, Yoshito; Ogawa, Tetsuya; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, to Chisso Corporation. 1,s-dipyrimidinylbenzene derivative. 4,640,796, 2-3-87, Cl. 252-299.610.
Yoshida, Naoyuki: *See*—
Kitano, Kisei; Ogawa, Tetsuya; Furukawa, Yoshito; Yoshida, Naoyuki; Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; and Nigorikawa, Kazunori, 4,684,476, Cl. 252-299.610.
Sugimori, Shigeru; Ogawa, Tetsuya; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,673,529, Cl. 252-299.630.
Sugimori, Shigeru; Goto, Yasuyuki; Isoyama, Toyoshiro; Nigorikawa, Kazunori; Ogawa, Tetsuya; Kitano, Kisei; Yoshida, Naoyuki; and Furukawa, Yoshito, 4,684,478, Cl. 252-299.630.
Yoshida, Noboru, to Hosiden Electronics Co., Ltd. Connector plug. 4,685,758, 8-11-87, Cl. 439-606.000.
Yoshida, Nobuyuki: *See*—
Takao, Hiroyoshi; Yoshida, Nobuyuki; and Imai, Akio, 4,647,614, Cl. 524-526.000.
Yoshida, Norie: *See*—
Toshikuni, Masami; Suzuki, Kazunori; and Yoshida, Norie, 4,693,833, Cl. 210-759.000.
Yoshida, Norio: *See*—
Taji, Satoru; Yoshida, Norio; and Hikawa, Tetsuo, 4,634,494, Cl. 156-628.000.
Yoshida, Noriyoshi: *See*—
Hirose, Masataka; Yamanishi, Masamichi; Osaka, Yukio; Ae, Tadashi; Ichikawa, Tadao; Yoshida, Noriyoshi; and Suemune, Ikuo, 4,672,577, Cl. 365-114.000.
Yoshida, Noriyuki; and Takahashi, Kenichi, to Sumitomo Electric Industries, Ltd. Method for inspecting an optical fiber. 4,678,327, 7-7-87, Cl. 356-73.100.
Yoshida, Noriyuki: *See*—
Inoue, Nori; Moriai, Yasuharu; Sakatani, Atushi; and Yoshida, Noriyuki, 4,688,149, Cl. 361-399.000.
Yoshida, Okio: *See*—
Endo, Yukio; Harada, Nozomu; and Yoshida, Okio, 4,652,928, Cl. 358-213.000.
Endo, Yukio; Harada, Nozomu; and Yoshida, Okio, 4,698,686, Cl. 358-213.180.
Harada, Nozomu; and Yoshida, Okio, 4,651,001, Cl. 250-330.000.
Yoshida, Paul S.: *See*—
Blomstedt, John W.; Yoshida, Paul S.; Irving, Wesley F.; and Roudenko, Vladimir, 4,685,032, Cl. 361-412.000.
Yoshida, Ryo; and Aikawa, Hiroshi, to Daihatsu Motor Company Limited. V belt stepless variable transmission. 4,714,451, 12-22-87, Cl. 474-28.000.
Yoshida, Ryo: *See*—
Nagano, Eiki; Takemoto, Ichiki; Fukushima, Masayuki; Yoshida, Ryo; and Matsumoto, Hiroshi, 4,670,043, Cl. 71-92.000.
Nagano, Eiki; Hashimoto, Shunichi; Yoshida, Ryo; Matsumoto, Hiroshi; and Kamoshita, Katsuzo, 4,670,046, Cl. 71-96.000.
Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,684,397, Cl. 71-96.000.
Nagano, Eiki; Yoshida, Ryo; Matsumoto, Hiroshi; Hashimoto, Shunichi; and Kamoshita, Katsuzo, 4,709,049, Cl. 548-513.000.
Nakayama, Koji; Yoshida, Ryo; and Morita, Koutchi, 4,702,764, Cl. 71-92.000.
Takemoto, Ichiki; Sumida, Seizo; Yoshida, Ryo; and Kamoshita, Katsuzo, 4,690,709, Cl. 71-120.000.
Yoshida, Satoshi; Ueoka, Joe; and Katou, Yoshiaki, to Fuji Photo Film Co., Ltd. Method of smoothing out an irregular surface of an electronic device. 4,662,985, 5-5-87, Cl. 156-643.000.
Yoshida, Satoshi: *See*—
Katou, Yoshiaki; Ueoka, Joe; and Yoshida, Satoshi, 4,703,383, Cl. 360-126.000.
Yoshida, Seiji: *See*—
Hasuo, Masayoshi; Mukai, Seiichi; Urabe, Hiroshi; Yoshida, Seiji; and Nukui, Masahiro, 4,680,374, Cl. 528-204.000.
Yoshida, Shigekazu: *See*—
Takai, Yasuhiro; Morimoto, Kenichi; Yoshida, Shigekazu; and Tagawa, Takao, 4,636,063, Cl. 355-68.000.
Yoshida, Shigeru; and Koeda, Kenji, to Aisan Industry Co., Ltd.; and Toyota Jidosha Kabushiki Kaisha. System for preventing loss of fuel due to evaporation. 4,658,796, 4-21-87, Cl. 123-519.000.
Yoshida, Shigeru, to Shibuya Kogyo Co., Ltd. Cleaning apparatus for fixed volume filling apparatus of rotary type. 4,688,611, 8-25-87, Cl. 141-91.000.
Yoshida, Shigeru: *See*—
Haruta, Kazumi; and Yoshida, Shigeru, 4,702,216, Cl. 123-520.000.
Yoshida, Shinichi; Higashi, Hidehiro; Yano, Takemitsu; and Fuchikami, Jun, to Catalysts & Chemicals Industries Co., Ltd. Modified zeolite. 4,668,649, 5-26-87, Cl. 502-79.000.
Yoshida, Shinya, to Omron Tateisi Electronics Co. IC card and financial transaction processing system using IC card. 4,709,137, 11-24-87, Cl. 235-379.000.
Yoshida, Shinya: *See*—
Nagata, Masanori; Yoshida, Shinya; and Yamashita, Susumu, 4,677,657, Cl. 379-63.000.
Yoshida, Shiro: *See*—
Akiyama, Setsuo; Fukuura, Yukio; Yoshikawa, Masato; Matsuda, Takeyuki; Monobe, Hisanobu; Ohkubo, Shigeki; and Yoshida, Shiro, 4,657,285, Cl. 285-256.000.
Yoshida, Shohei: *See*—
Usami, Toshimasa; Tanaka, Toshiharu; and Yoshida, Shohei, 4,684,194, Cl. 503-215.000.
Yoshida, Shoji; Haru, Yasuhiko; Kosaka, Etsuji; Ikeda, Toshimichi; Aoyama, Mikio; and Iida, Takeo, to Hitachi Construction Machinery Co., Ltd.; and Tokyo Gas Co., Ltd. Lateral hole boring method and apparatus. 4,691,788, 9-8-87, Cl. 175-62.000.
Yoshida, Shozo; and Ohmura, Hiroshi, to Canon Kabushiki Kaisha. Blur detecting device for a camera. 4,673,276, 6-16-87, Cl. 354-430.000.
Yoshida, Susumu, to Mitsubishi Denki Kabushiki Kaisha. Light-electricity conversion semiconductor device. 4,681,982, 7-21-87, Cl. 136-249.000.
Yoshida, Susumu: *See*—
Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, 4,649,088, Cl. 428-697.000.
Mitsui, Kotaro; Kato, Mari; Oda, Takao; and Yoshida, Susumu, 4,673,476, Cl. 204-192.280.
Morioka, Koji; Tojo, Hideaki; Kimura, Kazuo; and Yoshida, Susumu, 4,664,061, Cl. 118-663.000.
Ogawa, Hiroshi; Miyazaki, Yasuyuki; and Yoshida, Susumu, 4,665,487, Cl. 364-424.000.
Ogawa, Hiroshi; Miyazaki, Yasuyuki; Yoshida, Susumu; and Sasaki, Shinichi, 4,716,530, Cl. 364-424.000.
Suzuki, Tetsuji; Yoshida, Susumu; Ogawa, Hiroshi; and Miyazaki, Yasuyuki, 4,665,489, Cl. 364-424.000.
Yoshida, Tadahiro, to Nitsuko Limited. Start-stop synchronous data transmission system with a reduced redundancy. 4,635,248, 1-6-87, Cl. 370-48.000.
Yoshida, Tadahiro: *See*—
Koda, Toshihide; Honda, Tetsuya; Taketoh, Kiyoshi; and Yoshida, Tadahiro, 4,667,474, Cl. 60-517.000.
Yoshida, Tadao, to Sony Corporation. Apparatus for reproducing data signal. 4,685,098, 8-4-87, Cl. 369-59.000.
Yoshida, Tadashi, to Canon Kabushiki Kaisha. Image recording apparatus utilizing linearly arranged recording elements. 4,689,694, 8-25-87, Cl. 358-298.000.
Yoshida, Tadashi, to Canon Kabushiki Kaisha. Color image processing apparatus. 4,700,399, 10-13-87, Cl. 382-17.000.
Yoshida, Tadatoki; and Natori, Kouji, to Kabushiki Kaisha Toshiba. CT scanner. 4,646,333, 2-24-87, Cl. 378-4.000.
Yoshida, Taichi. Power winder attachment for a camera. 4,640,598, 2-3-87, Cl. 354-173.100.
Yoshida, Taizo; Tanji, Akihito; Masuda, Masamitsu; and Koyama, Jiro. Optical waveguide coupler having a grating electrode. 4,645,293, 2-24-87, Cl. 350-96.140.
Yoshida, Taizo; Mori, Masaaki; Koyama, Jiro; and Haruna, Masamitsu, to Ricoh Company, Ltd. Optical switching device. 4,648,687, 3-10-87, Cl. 350-96.130.
Yoshida, Takahiko: *See*—
Gotoh, Toshihiko; Yoshida, Takahiko; and Kobori, Yasunori, 4,704,618, Cl. 346-76.0PH.
Yoshida, Takaichi, to G-C Dental Industrial Corp. Superelastic dental Au-Cu-Zn alloys. 4,690,799, 9-1-87, Cl. 420-507.000.
Yoshida, Takao, to Terumo Kabushiki Kaisha. Method of manufacturing medical bag. 4,645,482, 2-24-87, Cl. 493-189.000.
Yoshida, Takao, to Honda. Stabilizer apparatus for telescopic type front fork. 4,705,285, 11-10-87, Cl. 280-279.000.
Yoshida, Takashi; Yoshioka, Takashi; and Endo, Yasuhiko, to Furuno Electric Co., Ltd. Underwater detection system. 4,672,589, 6-9-87, Cl. 367-104.000.
Yoshida, Takashi; Kimura, Tomoaki; Nishino, Tadashi; and Saito, Sadayuki, to Hitachi, Ltd.; and Kawasaki Steel Corporation. Cooling apparatus for belt type continuous casting machine. 4,679,611, 7-14-87, Cl. 164-431.000.
Yoshida, Takashi: *See*—
Nishizawa, Jun-ichi; Mochida, Yasunori; Nonaka, Terumoto; and Yoshida, Takashi, 4,700,213, Cl. 357-42.000.
Yamamoto, Yuichi; Yoshida, Takashi; Fukatsu, Shunzo; and Ishimaru, Toshiyasu, 4,687,769, Cl. 514-202.000.
Yoshida, Takehiro, to Canon Kabushiki Kaisha. Communication apparatus selectively operable in voice-communication or in image-communication. 4,677,660, 6-30-87, Cl. 379-100.000.

Yoshida, Takeo: *See*—
Itoh, Kunio; Imai, Kiyoshi; Yoshida, Takeo; and Fukushima, Motoo, 4,678,827, Cl. 524-188.000.
Yoshida, Takeshi; Honda, Takayasu; Kitazume, Shunosuke; and Tanaka, Kouzou, to Toyota Jidosha Kabushiki Kaisha; and Daihatsu Motor Co., Ltd. Rear seat cushion in motor vehicle. 4,637,653, 1-20-87, Cl. 297-334.000.
Yoshida, Takeshi: *See*—
Hayakawa, Masaru; Yoshida, Takeshi; and Kaiya, Atsushi, 4,691,759, Cl. 164-526.000.
Kobayashi, Mineo; Yoshida, Takeshi; Aoki, Masahiro; Okubo, Masao; and Nagayama, Masaaki, 4,659,397, Cl. 148-12.00E.
Yoshida, Taro: *See*—
Takahashi, Toru; and Yoshida, Taro, 4,692,327, Cl. 428-35.000.
Yoshida, Tatsuro; Shimasaki, Hidematsu; Minamizono, Takahisa; and Ochi, Katsura, to Nippon Carbide Kogyo Kabushiki Kaisha. Vinyl chloride resin composition. 4,670,490, 6-2-87, Cl. 524-115.000.
Yoshida, Tatsuya; and Furuhashi, Toshio, to Hitachi, Ltd. Ignition control apparatus for internal combustion engine. 4,665,884, 5-19-87, Cl. 123-609.000.
Yoshida, Tatumasa: *See*—
Fukasawa, Atsushi; Hosoda, Kenichiro; Sato, Takuro; and Yoshida, Tatumasa, 4,692,725, Cl. 333-203.000.
Yoshida, Teruaki: *See*—
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,670,529, Cl. 526-348.100.
Kitamura, Shuji; Nakae, Kiyohiko; Ogawa, Tadatoshi; Yoshida, Teruaki; and Sadatoshi, Hajime, 4,675,247, Cl. 428-349.000.
Yoshida, Teruo: *See*—
Yasui, Hiroyoshi; and Yoshida, Teruo, 4,655,617, Cl. 384-465.000.
Yasui, Hiroyoshi; Yoshida, Teruo; Komiya, Hiroshi; Oguchi, Toshitaro; and Okamura, Seiji, 4,668,411, Cl. 252-51.50A.
Yoshida, Teruyuki: *See*—
Yoshinaka, Tadaaki; Fujita, Tadao; and Yoshida, Teruyuki, 4,700,239, Cl. 358-310.000.
Yoshida, Tetsuo; and Kokubo, Tadayoshi, to Fuji Photo Film Co., Ltd. Internal latent image-type silver halide emulsion. 4,639,416, 1-27-87, Cl. 430-567.000.
Yoshida, Tetsuo: *See*—
Kokubo, Tadayoshi; Ikeda, Tadashi; Adachi, Keiichi; Okazaki, Masaki; and Yoshida, Tetsuo, 4,657,846, Cl. 430-434.000.
Kubota, Satosi; Yoshida, Tetsuo; and Ohmatsu, Hideki, 4,643,965, Cl. 430-567.000.
Yoshida, Tomiharu: *See*—
Omote, Tatsuyuki; Yoshida, Tomiharu; Shimizu, Isamu; and Metoki, Kichinori, 4,643,845, Cl. 252-626.000.
Yoshida, Tomio; and Ohara, Shunji, to Matsushita Electric Industrial Co., Ltd. Optical recording and reproducing apparatus having erasing beam spot with asymmetrical intensity distribution. 4,679,184, 7-7-87, Cl. 369-112.000.
Yoshida, Tomio; Nakata, Yoshinobu; Ohara, Shunji; and Satoh, Toshio, to Matsushita Electric Industrial Co., Ltd. Optical recording and playback apparatus using plural light spots. 4,700,336, 10-13-87, Cl. 369-44.000.
Yoshida, Tomio: *See*—
Ohara, Shunji; Yoshida, Tomio; Satoh, Isao; and Koishi, Kenji, 4,689,780, Cl. 369-44.000.
Yoshida, Tomohiro: *See*—
Nishida, Fumihiko; Shimizu, Yasumasa; Yoshida, Tomohiro; Urata, Makoto; Hotta, Tomiji; Mizuta, Masaji; and Yamashita, Hiroshi, 4,679,930, Cl. 355-52.000.
Yoshida, Tomomasa: *See*—
Hirai, Hiromu; Yamaguchi, Takashi; Takase, Fuyuto; and Yoshida, Tomomasa, 4,667,139, Cl. 318-687.000.
Yoshida, Toru; Murata, Toyo-o; and Suga, Noriaki, to Nippon Steel Corporation; and Kawasaki Jukogyo Kabushiki Kaisha. Method of operation of exhaust-gas treatment system of sealed-type converter under abnormal conditions. 4,669,706, 6-2-87, Cl. 266-44.000.
Yoshida, Toru: *See*—
Arima, Keizi; Ueda, Yujiro; Yoshida, Toru; and Narita, Hiroshi, 4,651,976, Cl. 266-44.000.
Yoshida, Toshihiko; Takiguchi, Haruhisa; Kaneiwa, Shinji; and Matsui, Sadayoshi, to Sharp Kabushiki Kaisha. Distributed feedback semiconductor laser device. 4,716,570, 12-29-87, Cl. 372-45.000.
Yoshida, Toshihiko: *See*—
Asahi, Takeoki; and Yoshida, Toshihiko, 4,696,216, Cl. 84-1.130.
Kaneiwa, Shinji; Takiguchi, Haruhisa; Yoshida, Toshihiko; and Matsui, Sadayoshi, 4,692,206, Cl. 156-649.000.
Takayama, Yoshihisa; Fujii, Shigeru; Kawauchi, Kazuyuki; and Yoshida, Toshihiko, 4,661,815, Cl. 340-825.860.
Yoshida, Toshihiro: *See*—
Ishino, Yuuji; Takai, Hitoshi; and Yoshida, Toshihiro, 4,686,895, Cl. 99-440.000.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, to Hitachi, Ltd. Process for producing zirconium-based alloy and the product thereof. 4,678,521, 7-7-87, Cl. 148-11.50F.
Yoshida, Toshimi; Maki, Hideo; Umehara, Hajime; Yasuda, Tetsuo; Masaoka, Isao; Takase, Iwao; Inagaki, Masahisa; Jimbow, Ryutarou; and Kuniya, Keiichi, to Hitachi, Ltd. Process for producing zirconium-based alloy. 4,689,091, 8-25-87, Cl. 148-11.50F.
Yoshida, Toshio; and Watanabe, Harumichi, to Nippon Oil Co., Ltd. Thermal medium oils. 4,665,275, 5-12-87, Cl. 585-27.000.
Yoshida, Toshio, to Tsudakoma Kogyo Kabushiki Kaisha. Method and apparatus for controlling weft detection on a fluid jet loom. 4,708,173, 11-24-87, Cl. 139-370.200.
Yoshida, Toshio; and Watanabe, Harumichi, to Nippon Oil Co., Ltd. Synthetic oils. 4,714,794, 12-22-87, Cl. 585-26.000.
Yoshida, Toshio: *See*—
Ishiguro, Minoru; Kamoda, Takashi; Nishizawa, Tetuo; Nakayama, Shigeo; and Yoshida, Toshio, 4,669,845, Cl. 354-288.000.
Sunano, Naomasa; Asahi, Naotatsu; and Yoshida, Toshio, 4,713,646, Cl. 338-34.000.
Yoshida, Toshiro: *See*—
Takahashi, Yasuyuki; Aizawa, Shigeru; Tamai, Shigeru; Yoshida, Toshiro; and Takahashi, Takeshi, 4,714,566, Cl. 252-314.000.
Yoshida, Toshiyuki; and Arai, Mitsuru, to Kabushiki Kaisha Komatsu Seisakusho. Control apparatus for hydraulic motor. 4,712,377, 12-15-87, Cl. 60-444.000.
Yoshida, Toyohiko, to Mitsubishi Denki Kabushiki Kaisha. MOS transistor circuit for shared precharging of bus lines. 4,670,666, 6-2-87, Cl. 307-246.000.
Yoshida, Tsuneaki: *See*—
Takanohashi, Kunio; Yoshida, Tsuneaki; and Fuji, Shoichiro, 4,695,639, Cl. 548-165.000.
Yoshida, Yaoko, to Hitachi, Ltd. Vector processor for processing one vector instruction with a plurality of vector processing units, 4,685,076, 8-4-87, Cl. 364-736.000.
Yoshida, Yasuharu, to NEC Corporation. Digital demodulation system, 4,703,282, 10-27-87, Cl. 329-50.000.
Yoshida, Yasuo: *See*—
Kaminaka, Nobuyuki; and Yoshida, Yasuo, 4,716,484, Cl. 360-125.000.
Yoshida, Yoshihiro: *See*—
Ohzono, Kohei; Hayashi, Kiyotaka; Saito, Mitsuru; Kato, Masaie; and Yoshida, Yoshihiro, 4,679,677, Cl. 192-85.0AA.
Yoshida, Yoshiichi, to Tsutsumi, Shigeru; and Seiko Engineering and Research Co. Ltd. Pointed heat-generating device for molds of injection molding machines. 4,643,664, 2-17-87, Cl. 425-549.000.
Yoshida, Yuji; Suzuki, Shigeo; Nakatani, Kazuo; Mukai, Yuji; Nakazawa, Akira; and Imoto, Takumi, to Matsushita Electric Industrial Co., Ltd. Heat pump apparatus. 4,679,403, 7-14-87, Cl. 62-114.000.
Yoshida, Yukio: *See*—
Hagiwara, Isao; and Yoshida, Yukio, 4,673,848, Cl. 318-266.000.
Hasegawa, Akira; Nishimura, Kaoru; and Yoshida, Yukio, 4,674,965, Cl. 425-29.000.
Ishida, Takao; Yoshida, Yukio; and Ohno, Kenzo, 4,694,607, Cl. 49-25.000.
Kawamura, Hideo; Yoshida, Yukio; and Yamashita, Keiichi, 4,684,341, Cl. 431-242.000.
Kawamura, Hideo; Yoshida, Yukio; and Yamashita, Keiichi, 4,703,888, Cl. 237-2.00A.
Yoshida, Yuro: *See*—
Suzuki, Toshiyuki; and Yoshida, Yuro, 4,660,854, Cl. 280-782.000.
Yoshida, Zenichi: *See*—
Katayama, Kazuso; Mori, Yasushi; Kanki, Hiroshi; Mori, Shigeki; Takeshita, Koji; Ozawa, Yutaka; and Yoshida, Zenichi, 4,660,838, Cl. 277-97.000.
Yoshida, Zenji: *See*—
Jost, Manfred; Knoke, Jurgen; Yoshida, Zenji; Ohta, Noburo; and Nakanishi, Terumo, 4,696,850, Cl. 428-197.000.
Yoshie, Kiyotaka: *See*—
Inoue, Tadashi; Kuwabara, Tsumoru; and Yoshie, Kiyotaka, 4,670,146, Cl. 210-490.000.
Yoshie, Yasunori: *See*—
Ikeda, Hidekatsu; Morikawa, Hiroyuki; and Yoshie, Yasunori, 4,700,441, Cl. 29-33.00P.
Yoshieda, Keiichi; Sodeno, Toshiaki; and Honmoto, Syuichi, to Yoshida Kogyo K. K. Device for positioning slide fastener stringers in fastener finishing apparatus. 4,633,580, 1-6-87, Cl. 29-767.000.
Yoshieda, Keiichi; and Miyazaki, Kunio, to Yoshida Kogyo K. K. Method of and apparatus for cutting off separable slide fastener chain. 4,651,603, 3-24-87, Cl. 83-42.000.
Yoshieda, Keiichi; Sodeno, Toshiaki; and Honmoto, Syuichi, to Yoshida Kogyo K.K. Gripper mechanism for feeding elongate strips. 4,655,662, 4-7-87, Cl. 414-14.000.
Yoshieda, Keiichi, to Yoshida Kogyo, K. K. Apparatus for assembling pairs of fastener elements. 4,712,718, 12-15-87, Cl. 227-62.000.
Yoshieda, Keiichi: *See*—
Sassa, Yuusei; Yoshieda, Keiichi; and Miyazaki, Kunio, 4,650,091, Cl. 221-220.000.
Sodeno, Toshiaki; Yoshieda, Keiichi; and Honmoto, Syuichi, 4,641,424, Cl. 29-766.000.
Yoshifuji, Yutaka: *See*—
Itaba, Yasushi; Yoshino, Tadao; Yoshifuji, Yutaka; Saito, Keichiro; and Tabuchi, Jyoichi, 4,636,340, Cl. 264-22.000.
Itaba, Yasushi; Yoshino, Tadao; Yoshifuji, Yutaka; Saito, Keichiro; and Tabuchi, Jyoichi, 4,673,619, Cl. 428-338.000.
Yoshigae, Kiyohisa: *See*—
Ishikawa, Hiroshi; and Yoshigae, Kiyohisa, 4,689,598, Cl. 337-295.000.
Yoshigai Kikai Kinzoku Kabushiki Kaisha: *See*—
Yoshigai, Toshiharu, 4,674,353, Cl. 74-489.000.
Yoshigai, Toshiharu, 4,678,349, Cl. 384-125.000.
Yoshigai, Toshiharu, 4,679,460, Cl. 74-489.000.
Yoshigai, Toshiharu, 4,704,044, Cl. 403-79.000.
Yoshigai, Toshiharu, to Yoshigai Kikai Kinzoku Kabushiki Kaisha. Brake operating device. 4,674,353, 6-23-87, Cl. 74-489.000.

Yoshigai, Toshiharu, to Yoshigai Kikai Kinzoku Kabushiki Kaisha. Bush used for bicycle brake device. 4,678,349, 7-7-87, Cl. 384-125.000.
Yoshigai, Toshiharu, to Yoshigai Kikai Kinzoku Kabushiki Kaisha. Brake lever device. 4,679,460, 7-14-87, Cl. 74-489.000.
Yoshigai, Toshiharu, to Yoshigai Kikai Kinzoku Kabushiki Kaisha. Device for connecting a wire with a coupling in an operative assembly or in an actuative assembly for bicycle or the like. 4,704,044, 11-3-87, Cl. 403-79.000.
Yoshihama, Makoto: *See*—
Sinskey, Anthony J.; Walker, Graham C.; Higashio, Kanji; Rao, Eswara A.; Shanabruch, William G. and Yoshihama, Makoto, 4,649,119, Cl. 435-317.000.
Yoshihara, Akio: *See*—
Kawai, Yoichi; Abe, Masaru; Yoshihara, Akio; Hayashi, Shigeru; and Sekiguchi, Katsumi, 4,705,818, Cl. 523-200.000.
Yoshihara, Hideo: *See*—
Okada, Ikuo; Saitoh, Yasunao; Yoshihara, Hideo; and Nakayama, Satoshi, 4,635,282, Cl. 378-34.000.
Yoshihara, Hiroshi. Apparel structure and process for making apparel. 4,698,847, 10-13-87, Cl. 2-069.000.
Yoshihara, Junji: *See*—
Niwa, Toshio; Himeno, Kiyoshi; and Yoshihara, Junji, 4,642,339, Cl. 534-650.000.
Niwa, Toshio; Himeno, Kiyoshi; and Yoshihara, Junji, 4,699,982, Cl. 544-245.000.
Yoshihara, Kenji: *See*—
Sugiyama, Hiroyuki; Sakurai, Masaki; Abe, Ryozo; Yoshihara, Kenji; and Haneji, Yasuo, 4,638,376, Cl. 358-34.000.
Yoshihara, Kenzo: *See*—
Kachi, Kenjiro; Onda, Hideaki; Hayashi, Yukichi; Yoshihara, Kenzo; Watabe, Masayuki; Akagawa, Masaki; and Mori, Yoshikazu, 4,658,125, Cl. 235-449.000.
Yoshihara, Koichi, to NEC Corporation. Photomask and method of fabrication thereof. 4,670,365, 6-2-87, Cl. 430-5.000.
Yoshihara, Kunio: Sudo, Toshio; Iida, Atsuko; Miyagi, Takeshi; Saito, Tamio; and Oe, Shigeyuki, to Kabushiki Kaisha Toshiba. Circuit board. 4,644,093, 2-17-87, Cl. 174-36.000.
Yoshihara, Kunio: *See*—
Takahashi, Kazuyoshi; Suzuki, Koji; Nagahira, Joji; Yoshihara, Kunio; Matsui, Toshiro; and Ishikawa, Tadashi. 4,709,319, Cl. 363-49.000.
Yoshihara, Masashi; and Yano, Kazuo, to NEC Corporation. Automatic frequency and gain control circuit. 4,691,377, 9-1-87, Cl. 455-256.000.
Yoshihara, Masayuki: *See*—
Kokubun, Yoshikazu; Kurosawa, Akihito; Anazawa, Osamu; Sunouchi, Daigo; and Yoshihara, Masayuki, 4,676,398, Cl. 221-129.000.
Yoshihara, Mitsuo; Morikawa, Yoshitada; Yamamoto, Yasuo; Komada, Mitsuharu, and Hattori, Masaaki, to Nitto Electric Industrial Co., Ltd. Fiber reinforced resin coated optical fiber and process for producing the same. 4,645,297, 2-24-87, Cl. 350-96.230.
Yoshihara, Mitsuo: *See*—
Kimura, Takao; Inagaki, Nobuo; Yoshihara, Mitsuo; and Kato, Fumihiko, 4,639,080, Cl. 350-96.340.
Yoshihara Oil Mill, Ltd.: *See*—
Hanaoka, Joichi, 4,636,259, Cl. 106-122.000.
Yoshihara, Satoshi: *See*—
Kamio, Masaru; Iijima, Shigeharu; Yoshihara, Satoshi; and Ogura, Yasutsugu, 4,661,191, Cl. 156-275.500.
Takano, Katsuhiko; Yoshihara, Satoshi; Iijima, Shigeharu; Sasamori, Eizo; Matsushima, Masaaki; and Kishi, Hiroyoshi, 4,710,418, Cl. 428-192.000.
Yoshihara, Shigeo; and Miyashita, Hideo, to NEC Corporation. Radio transceiver including an antenna switching circuit. 4,677,688, 6-30-87, Cl. 455-82.000.
Yoshihara, Shigeo: *See*—
Miyashita, Hideo; and Yoshihara, Shigeo, 4,673,892, Cl. 331-14.000.
Yoshihara, Toshio; and Kikuchi, Ichiro, to Nippon Soda Co., Ltd. Thin-film dielectric and process for its production. 4,636,908, 1-13-87, Cl. 361-321.000.
Yoshihara, Toshiro, to Nippon Seiko Kabushiki Kaisha. Divided type antifriction bearing assembly with a seal member. 4,671,682, 6-9-87, Cl. 384-484.000.
Yoshihara, Toshiyuki; Hiro, Masaaki; and Watanabe, Katsunori, to Canon Kabushiki Kaisha. Electrophotographic member with silicone graft copolymer in surface layer. 4,716,091, 12-29-87, Cl. 430-66.000.
Yoshihara, Tsutomu: *See*—
Kumanoya, Masaki; Fujishima, Kazuyasu; Miyatake, Hideshi; Hidaka, Hideto; Dosaka, Katsumi; and Yoshihara, Tsutomu, 4,675,850, Cl. 365-230.000.
Kumanoya, Masaki; Fujishima, Kazuyasu; Dosaka, Katsumi; Hidaka, Hideto; Miyatake, Hideshi; and Yoshihara, Tsutomu, 4,710,901, Cl. 365-190.000.
Miyatake, Hideshi; Fujishima, Kazuyasu; Yoshihara, Tsutomu; Kumanoya, Masaki; Hidaka, Hideto; and Dosaka, Katsumi, 4,712,123, Cl. 357-23.600.
Yoshihiro, Mitsugu, to Sony Corporation. Method and apparatus for controlling a bimorph leaf which supports a deflectable head. 4,663,555, 5-5-87, Cl. 310-317.000.
Yoshihiro, Mitsugu: *See*—
Nishimura, Kazuhisa; Yoshihiro, Mitsugu; Sakai, Masaaki; and Hataoka, Seiichi, 4,698,703, Cl. 360-73.000.
Yoshihiro, Mitsuto: *See*—
Kamiyo, Sumio; and Yoshihiro, Mitsuto, 4,636,536, Cl. 523-137.000.
Yoshihiro, Yokoyama: *See*—
Yoshihito, Urata; Toshiharu, Sasaki; Yoshihiro, Yokoyama; and Yoichi, Sekine, 4,647,177, Cl. 355-3.0BE.
Yoshihito, Urata; Toshiharu, Sasaki; Yoshihiro, Yokoyama; and Yoichi, Sekine, to Matsushita Electric Industrial Co., Ltd. Electrophotographic copier. 4,647,177, 3-3-87, Cl. 355-3.0BE.
Yoshii, Eiichi: *See*—
Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,647,600, Cl. 523-116.000.
Kawahara, Haruyuki; Takeda, Shoji; Oshima, Hiroshi; Tomioka, Kentaro; Akahane, Shoji; Yoshii, Eiichi; and Hirota, Kazuo, 4,652,593, Cl. 523-11o.000.
Yoshii, Gen: *See*—
Yano, Kazuhiko; Ohtsuki, Kazuhiko; Awaya, Takao; and Yoshii, Gen, 4,643,687, Cl. 440-75.000.
Yoshii, Jiro; Komatsu, Akira; and Ishii, Hiroshi, to Kabushiki Kaisha Toshiba. Dot interpolation control system. 4,680,720, 7-14-87, Cl. 364-521.000.
Yoshii, Ken. Ear microphone utilizing vocal bone vibration and method of manufacture thereof. 4,652,702, 3-24-87, Cl. 381-151.000.
Yoshii, Koichi: *See*—
Funahashi, Kazutomi; Yoshii, Koichi; Nakamura, Yoichi; Oshikiri, Tatsumi; and Kobayashi, Hajime, 4,668,298, Cl. 106-287.130.
Yoshii, Minoru: *See*—
Sueda, Tetsuo; and Yoshii, Minoru, 4,641,962, Cl. 356-124.000.
Yoshii, Takashi, to Kubota, Ltd. Control apparatus for vehicle. 4,660,673, 4-28-87, Cl. 180-334.000.
Yoshii, Toshiya; and Okabe, Kazuo, to Toray Industries, Inc. Metal-deposited laminated film and method for making capacitor elements using same. 4,708,905, 11-24-87, Cl. 428-216.000.
Yoshii, Toshiya: *See*—
Hata, Ryosuke; Yamanouchi, Shosuke; Hirose, Masayuki; Yoshii, Toshiya; Tsunashima, Kenji; and Horiuchi, Satoshi, 4,675,470, Cl. 174-25.00R.
Yoshiie, Shigeo: *See*—
Hirata, Tadashi; Matsukuma, Ikuo; Yoshiie, Shigeo; Sato, Kiyoshi; and Ohashi, Yoichi, 4,708,956, Cl. 514-210.000.
Yoshiike, Nobuyuki; and Kondo, Shigeo, to Matsushita Electric Industrial Co., Ltd. Recording medium. 4,711,815, 12-8-87, Cl. 428-411.100.
Yoshikawa, Eiichi: *See*—
Kokubo, Eiichi; Osako, Kyoichi; Hirata, Akira; Oshita, Mizuo; Ito, Toshiaki; Seki, Kazuyuki; Yoshikawa, Eiichi; and Miyazaki, Osamu, 4,699,272, Cl. 209-534.000.
Yoshikawa, Enichi: *See*—
Yamaguchi, Shogo; and Yoshikawa, Enichi, 4,669,888, Cl. 366-177.000.
Yamaguchi, Shogo; Yoshikawa, Enichi; and Tachi, Eiji, 4,669,889, Cl. 366-177.000.
Yoshikawa, Hayato; and Morisaka, Manabu, to Toyota Jidosha Kabushiki Kaisha. Windshield defroster. 4,637,298, 1-20-87, Cl. 98-2.080.
Yoshikawa, Hideki: *See*—
Yasuda, Isao; Yoshisato, Yorinobu; Yoshikawa, Hideki; and Taketa, Kazuhiko, 4,713,709, Cl. 360-121.000.
Yoshikawa, Hiroki: *See*—
Sakazume, Akio; Yoshikawa, Hiroki; and Matsushima, Hiroaki, 4,638,643, Cl. 62-209.000.
Yoshikawa, Hiroshi: *See*—
Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Tanaka, Wataru; Takita, Tomohisa; Nishimura, Yoshio; and Yoshikawa, Hiroshi, 4,716,221, Cl. 536-17.200.
Yoshikawa, Hiroyoshi: *See*—
Yoshitake, Yuji; Yokouchi, Kentaro; and Yoshikawa, Hiroyoshi, 4,638,374, Cl. 358-336.000.
Yoshikawa, Hisashi: *See*—
Nakanishi, Yoshiyuki; Akazawa, Yoji; Kurimoto, Ikuo; Takahashi, Youjirou; Uchida, Shinichi; and Yoshikawa, Hisashi, 4,665,200, Cl. 549-239.000.
Yoshikawa, Junichi; and Rachi, Masahiro, to Canon Kabushiki Kaisha. Rotary encoder with source-adjacent light sampling and control. 4,712,000, 12-8-87, Cl. 250-205.000.
Yoshikawa, Kazuo; Asano, Toru; Yamaguchi, Hisashi; Takizawa, Hideaki; and Andoh, Shizuo, to Fujitsu Limited. Coordinate detecting apparatus. 4,680,430, 7-14-87, Cl. 178-19.000.
Yoshikawa, Kazuo: *See*—
Saito, Tsutomu; Hasegawa, Yoshimichi; Yoshikawa, Kazuo; and Aoyama, Shigetsune, 4,637,594, Cl. 267-47.000.
Yoshikawa, Kazushi: *See*—
Yamaguchi, Akio; and Yoshikawa, Kazushi, 4,714,026, Cl. 108-51.100.
Yoshikawa, Kikuo: *See*—
Hasegawa, Isao; Yoshikawa, Kikuo; Takagi, Satoshi; and Takahashi, Akira, 4,691,261, Cl. 360-137.000.
Hayashi, Hideki; Takagi, Satoshi; and Yoshikawa, Kikuo, 4,646,174, Cl. 360-74.200.
Yamaguchi, Katsumi; Yokoi, Syouichiro; Kanai, Takao; and Yoshikawa, Kikuo, 4,708,302, Cl. 242-204.000.
Yoshikawa, Kiyoshi; Toku, Hisayuki; Ueda, Makoto; and Tamagaki, Hiroshi, to Kyoto University. Hall accelerator with preionization discharge. 4,703,222, 10-27-87, Cl. 313-362.100.
Yoshikawa, Koichi: *See*—
Kobayashi, Jiro; and Yoshikawa, Koichi, 4,685,206, Cl. 29-740.000.
Yoshikawa, Kunihiko: *See*—
Igarashi, Masaaki; Okada, Yasutaka; Yoshikawa, Kunihiko; and Kudo, Takeo, 4,652,315, Cl. 148-12.70R.

Yoshikawa, Masaaki; and Aoi, Kazuo, to Yamaha Hatsudoki Kabushiki Kaisha. Four-stroke internal combustion engine. 4,651,696, 3-24-87, Cl. 123-308.000.

Yoshikawa, Masaaki, to Yamaha Hatsudoki Kabushiki Kaisha. Four-cycle engine. 4,660,529, 4-28-87, Cl. 123-432.000.

Yoshikawa, Masao; Kojima, Akio; Suzuki, Tetsuro; and Sasaki, Masaomi, to Ricoh Co., Ltd. Photoelectric transducer element. 4,672,149, 6-9-87, Cl. 136-263.000.

Yoshikawa, Masatake: *See*—
Naitou, Masaru; Yoshikawa, Masatake; and Narita, Kinichiro, 4,650,652, Cl. 423-21.100.

Yoshikawa, Masato: *See*—
Akiyama, Setsuo; Fukuura, Yukio; Yoshikawa, Masato; Matsuda, Takeyuki; Monobe, Hisanobu; Ohkubo, Shigeki; and Yoshida, Shiro, 4,657,285, Cl. 285-256.000.

Yoshikawa, Mitsuhiko: *See*—
Kadono, Masaru; Nago, Kumio; Yamamoto, Tatsushi; Muramatsu, Tersuro; Tsuchimoto, Shuuhei; Yoshikawa, Mitsuhiko; and Tomita, Masatoshi, 4,702,935, Cl. 427-42.000.
Kira, Toru; Miyauchi, Tetichi; and Yoshikawa, Mitsuhiko, 4,639,806, Cl. 360-113.000.
Minakata, Ryoji; Kira, Toru; and Yoshikawa, Mitsuhiko, 4,699,702, Cl. 204-192.200.
Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, 4,677,036, Cl. 428-694.000.
Nakamura, Tsuneo; Yamasaki, Hidenori; Kira, Tohru; and Yoshikawa, Mitsuhiko, 4,702,794, Cl. 156-643.000.

Yoshikawa, Naoki: *See*—
Kazino, Sadayosi; and Yoshikawa, Naoki, 4,674,344, Cl. 74-7.00A.
Takagi, Yoshito; Wakahara, Yasuyuki; Hamano, Satoru; Mori, Masanori; Hamaguchi, Masayuki; and Yoshikawa, Naoki, 4,673,838, Cl. 310-239.000.

Yoshikawa, Norio, to Omron Tateisi Electronics Co. Heating cylinder device for a molding machine. 4,649,262, 3-10-87, Cl. 219-421.000.

Yoshikawa, Osamu, to Shimano Industrial Company Limited. Drag adjusting device for a closed-face type fishing reel. 4,696,437, 9-29-87, Cl. 242-84.50A.

Yoshikawa, Ryoichi: *See*—
Wada, Hirotsugu; Sano, Shunichi; Nakasuji, Mamoru; and Yoshikawa, Ryoichi, 4,647,782, Cl. 250-492.200.
Yoshida, Masaiki; Yoshikawa, Ryoichi; Nagase, Naoki; and Yamada, Masanori, 4,656,466, Cl. 340-716.000.

Yoshikawa, Sadao; Saburi, Masahiko; Ikariya, Takao; ishii, Youichi; and Akutagawa, Susumu, to Takasago Perfumery Co., Ltd. Ruthenium-phosphine complex. 4,691,037, 9-1-87, Cl. 556-18.000.

Yoshikawa, Seiichi; Yoshioka, Toshio; and Shimamura, Masaharu, to Toray Industries, Inc. Tobacco filter and fibrous ion exchange resin. 4,700,723, 10-20-87, Cl. 131-334.000.

Yoshikawa, Seiichi: *See*—
Yoshioka, Toshio; Yoshikawa, Seiichi; and Shimamura, Masaharu, 4,693,828, Cl. 210-679.000.

Yoshikawa, Seiji; Sato, Isao; Nakayama, Shigenori; and Amazaki, Mitsuhiro, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Direction control valve fitted with a flow control mechanism. 4,697,498, 10-6-87, Cl. 91-420.000.

Yoshikawa, Shinichi; Nishiwaki, Shigeru; and Shimodaira, Toshiro, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Motor actuator with control means responsive to internal and external conditions. 4,644,239, 2-17-87, Cl. 318-641.000.

Yoshikawa, Shoji; and Funada, Saburo, to Olympus Optical Co., Ltd. Optical recording and reproducing equipment. 4,651,314, 3-17-87, Cl. 369-45.000.

Yoshikawa, Shoji: *See*—
Funada, Saburo; Yoda, Yoshiro; Yoshikawa, Shoji; Doi, Masanori; and Sugawara, Kazutake, 4,706,232, Cl. 369-13.000.
Sakai, Mitsugu; and Yoshikawa, Shoji, 4,692,606, Cl. 250-205.000.

Yoshikawa, Shokichiro: *See*—
Saito, Katsuichi; Yoshikawa, Shokichiro; and Hirai, Akira, 4,676,439, Cl. 241-172.000.

Yoshikawa, Shozi, to Olympus Optical Co., Ltd. Semiconductor laser driver. 4,713,819, 12-15-87, Cl. 372-9.000.

Yoshikawa, Sumio; and Shiraishi, Atsushi, to Fuji Photo Film Co., Ltd. Image recording apparatus. 4,660,964, 4-28-87, Cl. 355-28.000.

Yoshikawa, Tadao; and Nagata, Shiro, to Kuraray Co., Ltd. Optical information recording medium. 4,686,143, 8-11-87, Cl. 428-411.100.

Yoshikawa, Takahiro: *See*—
Tsukada, Tetsuo; Shimobuchi, Hideyuki; and Yoshikawa, Takahiro, 4,695,175, Cl. 400-196.100.

Yoshikawa, Takeshi: *See*—
Nakano, Yuzuru; and Yoshikawa, Takeshi, 4,698,958, Cl. 57-119.000.

Yoshikawa, Toru: *See*—
Sasage, Tsutomu; Matsumoto, Minoru; and Yoshikawa, Toru, 4,705,266, Cl. 271-264.000.

Yoshikawa, Toshiharu; and Shibata, Takanori, to Toyo Contact Lens Co., Ltd. Oxygen permeable soft contact lens material. 4,649,184, 3-10-87, Cl. 526-279.000.

Yoshikawa, Yoshihiko, to Mitsubishi Denki Kabushiki Kaisha. High-frequency amplifier device. 4,683,440, 7-28-87, Cl. 330-51.000.

Yoshikawa, Yoshimasa, to Nippon, Gakki Seizo, Kabushiki Kaisha. Electronic musical instrument with keyboard and cover. 4,656,913, 4-14-87, Cl. 84-177.000.

Yoshikawa, Yoshitaka; Tsukamoto, Masahide; Nishimura, Yutaka; Ono, Hitoshi; and Sano, Tetsuhiro, to Matsushita Electric Industrial Co., Ltd. Print head. 4,679,054, 7-7-87, Cl. 346-76.0PH.

Yoshikawa, You: *See*—
Ohgushi, Kikuo; Yoshikawa, You; Ohnishi, Isao; and Matsuura, Haruo, 4,669,275, Cl. 62-342.000.

Yoshikawa, Yukihiro: *See*—
Tanabe, Yoshimitsu; Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Sugimoto, Kenichi; and Yamaguchi, Akihiro, 4,701,567, Cl. 568-719.000.
Yamaguchi, Keizaburo; Yoshikawa, Yukihiro; Tanabe, Yoshimitsu; Sugimoto, Kenichi; and Yamaguchi, Akihiro, 4,692,554, Cl. 564-430.000.

Yoshiki Industrial Co., Ltd.: *See*—
Yoshizawa, Yasuo; and Jinno, Masatoshi, 4,698,574, Cl. 318-609.000.

Yoshiki, Naokazu; Saito, Yutaka; and Haba, Tsuneo, to Mitsubishi Kinzoku Kabushiki Kaisha. Apparatus for working surface of metal pipe. 4,712,407, 12-15-87, Cl. 72-68.000.

Yoshikoshi, Hideyuki: *See*—
Miyashita, Tsuneo; Yoshikoshi, Hideyuki; Nishio, Hiroaki; and Takeuchi, Osamu, 4,636,342, Cl. 264-82.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Pharmaceutical composition containing a derivative of para-aminobenzoic acid as an active ingredient. 4,637,998, 1-20-87, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Method for the treatment of pains or pyrexia due to the accentuation of central nerve. 4,649,133, 3-10-87, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Pharmaceutical composition containg para-aminobenzoic acid-N-L-rhamnoside as an active ingredient. 4,657,895, 4-14-87, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, to Kureha Kagaku Kogyo Kabushiki Kaisha. P-aminobenzoic acid-N-L-rhamnoside pharmaceutical composition for treating inflammatory diseases. 4,663,312, 5-5-87, Cl. 514-42.000.

Yoshikumi, Chikao; Fujii, Takayoshi; Furusho, Takao; Matsunaga, Kenichi; Ohara, Minoru; and Kobayashi, Akira, to Kureha Kagaku Kogyo Kabushiki Kaisha. Novel nucleic acid-containing glycoprotein. 4,663,438, 5-5-87, Cl. 530-395.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Method for the treatment of hyperlipemia, inflammatory diseases, pains and pyrexia containing a derivative of para-aminobenzoic acid as an active ingredient. 4,673,669, 6-16-87, Cl. 514-42.000.

Yoshikumi, Chikao; Ohmura, Yoshio; Hirose, Fumio; Ikuzawa, Masanori; Matsunaga, Kenichi; Fujii, Takayoshi; Ohhara, Minoru; and Ando, Takao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Pharmaceutical composition containing a derivative of or thoaminobenzoic acid as an active ingredient. 4,708,950, 11-24-87, Cl. 514-42.000.

Yoshikumi, Chikao: *See*—
Kanno, Akihiko; Muto, Shigeaki; Niimura, Koichi; Ando, Takao; Fujii, Takayoshi; Fujii, Masahiko; Furusho, Takao; and Yoshikumi, Chikao, 4,690,920, Cl. 514-201.000.
Muto, Shigeaki; Ando, Takao; Fujii, Takayoshi; Kanno, Akihiko; Onishi, Yoko; Motokawa, Isamu; Furusho, Takao; and Yoshikumi, Chikao, 4,681,877, Cl. 514-206.000.
Ueno, Saburo; Yoshikumi, Chikao; Omura, Yoshio; Fujii, Takayoshi; Wada, Toshihiko; Takahashi, Enchi; and Hirose, Fumio, 4,699,787, Cl. 424-95.000.

Yoshimaru, Tomohisa, to Kabushiki Kaisha Toshiba. Method and apparatus for performing a memory operation on a fixed length block of data on a memory disk. 4,641,294, 2-3-87, Cl. 369-32.000.

Yoshimatsu, Akira: *See*—
Tsuji, Kaoru; and Yoshimatsu, Akira, 4,634,725, Cl. 523-221.000.

Yoshimi, Akiro: *See*—
Matsuoka, Akio; Takagi, Masashi; Yoshimi, Akiro; and Nishizawa, Kazutoshi, 4,646,535, Cl. 62-228.500.

Yoshimi, Kiyoharu: *See*—
Kuroda, Katsuhiko; Yoshimi, Kiyoharu; and Baba, Tsutomu, 4,652,611, Cl. 525-207.000.

Yoshimi, Takeo: *See*—
Sakai, Hideo; Mizutani, Tetsuya; and Yoshimi, Takeo, 4,699,525, Cl. 428-337.000.

Yoshimi, Tomohisa: *See*—
Takeo, Yuji; Yoshimi, Tomohisa; Shinoda, Yoshio; and Nomura, Ken, 4,674,230, Cl. 49-32.000.

Yoshimi, Toshikazu: *See*—
Kunugi, Yoshiro; Tokumo, Akio; Yoshimi, Toshikazu; Kato, Shirojiro; Sasaki, Yoshio; Odaka, Makoto; and Sato, Takeshi, 4,648,117, Cl. 381-86.000.

Yoshimi, Yasuhito, to Dainippon Screen Mfg. Co., Ltd. Treatment tank in photosensitive material processing system including a plurality of overflow devices. 4,641,941, 2-10-87, Cl. 354-324.000.

Yoshimi, Yasuhito, to Dainippon Screen Mfg. Co., Ltd. Processing apparatus for photosensitive material. 4,673,273, 6-16-87, Cl. 354-322.000.

Yoshimitsu, Toshio, to Kabushiki Kaisha Komatsu Seisakusho. Internal combustion engine cylinder liner coatings. 4,706,616, 11-17-87, Cl. 123-41.840.
Yoshimitsu, Tsutsui: *See*—
Tadashi, Hirata; Yoshirou, Satou; and Yoshimitsu, Tsutsui. 4,682,401, Cl. 29-568.000.
Yoshimoto, Itsuro: *See*—
Shinohara, Isao; and Yoshimoto, Itsuro, 4,694,723, Cl. 84-1.030.
Yoshimoto, Kenichi: *See*—
Kikuma, Toshio; Matsumoto, Hiromi; Tagawa, Masayoshi; Kajiwara, Toshiyuki; Kimura, Tomoaki; Iida, Yoshihiko; and Yoshimoto, Kenichi, 4,700,312, Cl. 364-472.000.
Yoshimoto, Kyosuke; and Ito, Osamu, to Mitsubishi Denki Kabushiki Kaisha. Control apparatus for information storage and retrieval system. 4,661,942, 4-28-87, Cl. 369-44.000.
Yoshimoto, Kyosuke; and Ito, Osamu, to Mitsubishi Denki Kabushiki Kaisha. Semiconductor laser controller. 4,689,795, 8-25-87, Cl. 372-31.000.
Yoshimoto, Makoto, to NEC Corporation. Channel quality monitoring apparatus. 4,688,207, 8-18-87, Cl. 370-13.000.
Yoshimoto, Makoto: *See*—
Noda, Seiichi; and Yoshimoto, Makoto, 4,716,385, Cl. 332-9.00R.
Yoshimoto, Masakazu: *See*—
Obata, Keigo; Dohi, Nobuyasu; Okuhama, Yoshiaki; Masaki, Seishi; Okada, Yukiyoshi; and Yoshimoto, Masakazu. 4,673,470, Cl. 204-44.400.
Yoshimoto, Masayuki; and Takagi, Toshiaki, to Terumo Kabushiki Kaisha. Material transfer apparatus of hollow fiber type. 4,798,796, 11-24-87, Cl. 210-321.800.
Yoshimoto, Satoshi, to Brother Kogyo Kabushiki Kaisha. Controller for energization of a stepper motor. 4,701,687, 10-20-87, Cl. 318-696.000.
Yoshimoto, Satoshi: *See*—
Yamakawa, Kiyoshi; and Yoshimoto, Satoshi, 4,714,361, Cl. 400-144.200.
Yoshimoto, Shin-ichi; Ando, Reigo; Shirai, Takeshi; and Nomura, Hiroshi, to Nippon Columbia Co. Ltd. Disc reproducing apparatus with carousel using disc clamping device. 4,674,077, 6-16-87, Cl. 369-37.000.
Yoshimoto, Tadashi: *See*—
Tsuru, Daisuke; Yoshimoto, Tadashi; Hagiwara, Hisao; and Kado, Kunio, 4,687,778, Cl. 514-419.000.
Yoshimoto, Taisuke: *See*—
Suzuki, Kenichirou; Fujitani, Yoshiyasu; Yoshimoto, Taisuke; and Muraki, Hideaki, 4,661,329, Cl. 423-245.000.
Yoshimoto, Takeo; Umemoto, Mitsumasa; Igarashi, Keiichi; Kubota, Yutaka; Yamazaki, Hideo; Enomoto, Yuji; and Yanagita, Hirohisa, to Mitsui Toatsu Chemicals, Incorporated. N-(2-chloro-4-trifluoromethylphenyl)-3-trifluoromethylbenzenesulfonamide derivative and agricultural fungicide containing same. 4,692,466, 9-8-87, Cl. 514-604.000.
Yoshimoto, Takeshi; Tsuda, Masanari; Masuda, Yoshikazu; and Yokoi, Masakatsu, to Dainippon Screen Seizo Kabushiki Kaisha. Method for focus adjustment of a picture scanning and recording system. 4,660,094, 4-21-87, Cl. 358-285.000.
Yoshimoto, Tokuji: *See*—
Inagaki, Takashi; Shimada, Toshio; and Yoshimoto, Tokuji, 4,685,428, Cl. 123-52.00A.
Yoshimoto, Toshio: *See*—
Sato, Kaoru; Ushio, Yukihide; Hori, Kenjiro; Hashimoto, Hiroshi; Yoshimoto, Toshio; and Kanaiwa, Kiyoshi, 4,712,118, Cl. 346-108.000.
Yoshimoto, Yoshikazu: *See*—
Higashigaki, Yoshiyuki; Yoshimoto, Yoshikazu; Suzuki, Tomonari; Nakajima, Shigeo; and Inoguchi, Toshio, 4,714,639, Cl. 428-36.000.
Yoshimoto, Yoshio; Kondoh, Minoru; and Terada, Yoshiyuki, to Murata Kikai Kabushiki Kaisha. System for guiding a driverless vehicle. 4,703,240, 10-27-87, Cl. 318-587.000.
Yoshimura, Frederick T.: *See*—
Jensen, Tom M.; Yoshimura, Frederick T.; and Jensen, Deborah P., 4,640,525, Cl. 280-642.000.
Jensen, Tom M.; Yoshimura, Frederick T.; and Jensen, Deborah P., 4,678,202, Cl. 280-642.000.
Yoshimura, Fumikatsu: *See*—
Ishii, Osamu; Yoshimura, Fumikatsu; and Hatakeyama, Iwao, 4,642,245, Cl. 427-47.000.
Yoshimura, Hirofumi, to Kabushiki Kaisha Cosina. Autofocusing zoom lens system with beam splitter prism for single lens reflex cameras. 4,694,151, 9-15-87, Cl. 250-201.000.
Yoshimura, Hiroichi, to Fuji Techno Kogyo Kabushiki Kaisha. Constant volume pulsation-free reciprocating pump. 4,687,426, 8-18-87, Cl. 417-539.000.
Yoshimura, Hironori; and Toyama, Jhunichi, to Mitsubishi Kinzoku Kabushiki Kaisha. Method of manufacturing a high toughness cermet for use in cutting tools. 4,636,252, 1-13-87, Cl. 75-238.000.
Yoshimura, Hironori, to Mitsubishi Kinzoku Kabushiki Kaisha. Rotary cutting tool of cemented carbide. 4,642,003, 2-10-87, Cl. 408-144.000.
Yoshimura, Hiroshi; and Hattori, Toshihiro, to Isuzu Motors Limited. Clutch control system with variable clutch connection position. 4,678,069, 7-7-87, Cl. 192-0.033.
Yoshimura, Hiroshi: *See*—
Matsumura, Tetsuo; Ohzawa, Toshio; Kawashima, Akihiro; Ohkuma, Osamu; Sawada, Saburo; Yanai, Shun'ichi; Yoshimura, Hiroshi; and Sugino, Yasuo, 4,714,543, Cl. 208-412.000.
Nakagawa, Fumio; Nakamura, Kazuyoshi; Shibao, Hitoshi; Yoshimura, Hiroshi; Taki, Koichi; Inoue, Makoto; Hayashi, Eiji; Dejima, Fusao; and Kohara, Yuritoshi, 4,690,638, Cl. 432-81.000.
Yoshimura, Isao; Hata, Hideo; and Kaneko, Takashi, to Asahi-Dow Ltd. Composition for drawn film, cold drawn film made of said composition and process for manufacture of said film. 4,701,496, 10-20-87, Cl. 525-240.000.
Yoshimura, Katsuo; and Furudate, Masato, to Dengensha Manufacturing Company Limited. Secondary conductor supervising device of resistance welder control system. 4,647,751, 3-3-87, Cl. 219-109.000.
Yoshimura, Kazunari: *See*—
Okamoto, Shinji; Yoshimura, Kazunari; and Nakahara, Tomoharu, 4,677,473, Cl. 358-101.000.
Yoshimura, Kazuyuki; and Sakakibara, Yoshio, to Fuji Photo Film Co., Ltd. Instant film unit with coloring means. 4,701,388, 10-20-87, Cl. 430-209.000.
Yoshimura, Kunimasa: *See*—
Mori, Satoshi; Egami, Tsuneyuki; Mori, Kouichi; Nohira, Hidetaka; and Yoshimura, Kunimasa, 4,661,695, Cl. 250-227.000.
Nishida, Minoru; Hattori, Tadashi; Yoshimura, Kunimasa; and Muraki, Tetsuzo, 4,695,758, Cl. 313-130.000.
Yoshimura, Masaaki: *See*—
Ohta, Koji; Yoshimura, Masaaki; and Takahashi, Mizunori, 4,681,909, Cl. 524-272.000.
Yoshimura, Masahiro, to Sharp Kabushiki Kaisha. Image display panel drive. 4,701,799, 10-20-87, Cl. 358-241.000.
Yoshimura, Masakatsu: *See*—
Kotera, Norio; Uegaki, Masatoshi; Yoshimura, Masakatsu; Masaki, Shinzaburo; Kaneoya, Tatsuo; Miyaoka, Takashi; Maegawa, Yuzo; and Fukasawa, Akira, 4,695,407, Cl. 760-378.000.
Yoshimura, Masato; and Ohsaki, Ryouhei, to Oki Electric Industry Co., Ltd. Paper feed mechanism for printer. 4,682,904, 7-28-87, Cl. 400-616.000.
Yoshimura, Masayoshi: *See*—
Suzuki, Yukio; Masuda, Ikuro; Iwamura, Masahiro; Kadono, Shinji; Uragami, Akira; Yoshimura, Masayoshi; and Matsubara, Toshiaki, 4,689,503, Cl. 307-446.000.
Yoshimura, Motokazu; Hirata, Koichi; and Kurebayashi, Kimie, to Brother Kogyo Kabushiki Kaisha. Electronic dictionary. 4,688,192, 8-18-87, Cl. 364-900.000.
Yoshimura, Nobutoshi: *See*—
Petty, Terry D.; Costello, Carmon R.; Song, Kun K.; Chabot, Luc G.; Fujita, Tadahiro; Hirose, Haruki; and Yoshimura, Nobutoshi, 4,639,167, Cl. 405-217.000.
Yoshimura, Noriaki: *See*—
Hirai, Koji; Taniguchi, Shunro; Ishiguro, Michihiro; Murata, Yoshifumi; Yokota, Shinichi; Ishii, Masao; Yoshimura, Noriaki; and Okamura, Takayuki, 4,639,471, Cl. 521-172.000.
Tokitoh, Yasuo; and Yoshimura, Noriaki, 4,663,468, Cl. 549-273.000.
Yoshimura, Shigeru, Suzuki, Tetsuo; and Takemura, Makoto, to Canon Kabushiki Kaisha. Image formation apparatus with a recording unit and paper feed cover and a sealing member. 4,692,778, 9-8-87, Cl. 346-145.000.
Yoshimura, Shinichi: *See*—
Ohkuma, Kuniaki; Sakuma, Kazuyoshi; Miyao, Hisao; Yoshimura, Shinichi; Koizumi, Hideharu; and Miwa, Yoshitake, 4,688,978, Cl. 414-224.000.
Ohkuma, Kuniaki; Nakagawa, Reiji; Miyao, Hisao; Yoshimura, Shinichi; Suzuki, Toshio; Hayashi, Toyoaki; Arakawa, Masayasu; and Koizumi, Hideharu, 4,714,397, Cl. 414-222.000.
Yoshimura, Shohei; Yamaguchi, Toru; Hashiba, Masahiro; and Kanbe, Masato, to Japan Styrene Paper Corporation. Pre-foamed particles of polyethylene resin. 4,656,197, 4-7-87, Cl. 521-56.000.
Yoshimura, Shohei; Yamaguchi, Toru; Kanbe, Masato; and Kuwabara, Hideki, to Japan Styrene Paper Corp. Process for the production of expanded particles of a polymeric material. 4,704,239, 11-3-87, Cl. 264-50.000.
Yoshimura, Shohei; Fujimura, Shigeki; and Sakamoto, Itaru, to Japan Styrene Paper Corporation. Multi-conductor cable. 4,707,569, 11-17-87, Cl. 174-116.000.
Yoshimura, Shoji: *See*—
Naraki, Kazuhide; Nishimura, Yoshiyuki; and Yoshimura, Shoji, 4,671,749, Cl. 418-149.000.
Ogura, Haruo; Furuhata, Kimio; Osawa, Toshiaki; Toyoshima, Satoshi; Shitori, Yoshiyasu; Ito, Masayoshi; and Yoshimura, Shoji, 4,691,012, Cl. 536-23.000.
Shibayama, Shohei; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu, and Ogawa, Tomoya, 4,663,443, Cl. 536-4.100.
Shibayama, Shohei; Matsuzaki, Yuzi; Yoshimura, Shoji; Ito, Masayoshi; Shitori, Yoshiyasu; and Ogawa, Tomoya, 4,675,391, Cl. 536-17.400.
Yoshimura, Shouji: *See*—
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,671,750, Cl. 418-150.000.
Miyoshi, Kiyotada; Tsuboi, Noboru; Nishitani, Kunihiko; Kubo, Kazuo; and Yoshimura, Shouji, 4,695,233, Cl. 418-83.000.
Yoshimura, Shushichi; Hiwatashi, Yasunori; Kobayashi, Hiromu; Yamazaki, Hozo; Nishino, Nobu; Tahara, Teruji; and Kobayashi, Hidenobu, to Mitsubishi Chemical Industries Ltd. Ultrasonic vibration sieving apparatus and process for purifying carbon black by using the apparatus. 4,693,879, 9-15-87, Cl. 423-461.000.
Yoshimura, Susumu; Kudoh, Yasuo; Tsuchiya, Soji; Kojima, Toshikuni; and Takahashi, Shohzoh, to Matsushita Electric Industrial Co., Ltd. Solid electrolytic capacitors. 4,679,124, 7-7-87, Cl. 361-433.000.

Yoshimura, Takashi, to Mazda Motor Corporation. Vehicle suspension system. 4,650,212, 3-17-87, Cl. 280-707.000.

Yoshimura, Takeshi; Sameshima, Mutsuro; Nakanishi, Toru; and Kato, Shigeo, to Mazda Motor Corporation. Fuel injection control means for internal combustion engines. 4,641,620, 2-10-87, Cl. 123-432.000.

Yoshimura, Tooru: *See*—
Nakajima, Yasuo; Yoshimura, Tooru; and Terakasa, Katsunori, 4,651,693, Cl. 123-306.000.

Yoshimura, Toshio: *See*—
Tanaka, Shinsaku; and Yoshimura, Toshio, 4,639,800, Cl. 360-90.000.

Yoshimura, Toshiteru, to Mazda Motor Corporation. Steering column support structure for a vehicle steering mechanism. 4,671,536, 6-9-87, Cl. 280-779.000.

Yoshimura, Toshiteru, to Mazda Motor Corporation. Steering column support structure for a vehicle steering mechanism. 4,682,788, 7-28-87, Cl. 280-779.000.

Yoshimura, Toshiteru; Kobayashi, Takayuki; and Ono, Masayoshi, to Mazda Motor Corporation. Knee protector structure for vehicle. 4,709,943, 12-1-87, Cl. 280-751.000.

Yoshimura, Tsuneo: *See*—
Aihara, Isamu; and Yoshimura, Tsuneo, 4,682,914, Cl. 405-283.000.

Yoshimura, Tsuyoshi, to Ricoh Company, Ltd. Document scanning apparatus. 4,685,795, 8-11-87, Cl. 355-8.000.

Yoshimura, Yasuo; Yamauchi, Kunio; and Saito, Kenji, to Hitachi Denshi Kabushiki Kaisha. Automatic iris adjustment system. 4,638,366, 1-20-87, Cl. 358-228.000.

Yoshimura, Yasuzumi: *See*—
Tsuneda, Haruhiro; and Yoshimura, Yasuzumi, 4,677,356, Cl. 318-258.000.

Yoshimura, Yoshikazu: *See*—
Tanaka, Toshihide; Saka, Hiroshi; Yoshimura, Yoshikazu; and Shiomi, Yasuhumi, 4,679,249, Cl. 455-328.000.

Yoshimura, Yoshinari: *See*—
Teramae, Hiroshi; and Yoshimura, Yoshinari, 4,681,201, Cl. 192-106.200.

Yoshimura, Yoshio: *See*—
Arimitsu, Hiroshi; Hatano, Kiyoshi; Nakanishi, Teruyuki; Yoshimura, Yoshio; Urabe, Masaki; and Honda, Tsurakazu, 4,697,179, Cl. 340-825.720.

Yoshinaga, Junji: *See*—
Satoh, Toshio; Matsumoto, Hitoshi; Kakegawa, Hisao; Kato, Yoshiko; Riku, Juichi; Yoshinaga, Junji; and Kanamoto, Yoshifumi, 4,634,777, Cl. 548-561.000.

Yoshinaga, Kazuo: *See*—
Kanbe, Junichiro; and Yoshinaga, Kazuo, 4,712,872, Cl. 350-333.000.
Katagiri, Kazuharu; Yoshinaga, Kazuo; Okada, Shinjiro; and Kanbe, Junichiro, 4,714,323, Cl. 350-350.00S.

Yoshinaga, Kenji: *See*—
Ohno, Akio; Tanaka, Kiyoharu; Takeda, Kenji; Yoshinaga, Kenji; Oguri, Shinichi; and Takada, Yusaku, 4,646,679, Cl. 118-691.000.

Yoshinaga, Sadao, to Prince Industrial Development Co., Ltd. Burner device. 4,643,671, 2-17-87, Cl. 431-255.000.

Yoshinaga, Sadao: *See*—
Katsuda, Yoshio; Yoshinaga, Sadao; and Mashine, Hiroyoshi, 4,693,868, Cl. 422-124.000.

Yoshinaga, Shinsuke: *See*—
Sasaki, Kouichi; Tsudaka, Hideaki; Namba, Satoshi; Abe, Yuji; and Yoshinaga, Shinsuke, 4,647,178, Cl. 355-3.00R.

Yoshinaga, Shoji: *See*—
Muroi, Katsumi; Hiratsuka, Kosai; Yoshinaga, Shoji; Nakatsui, Toji; Oda, Chikao; and Fujiwara, Kiyoshi, 4,698,142, Cl. 204-182.300.

Yoshinaga, Toru: *See*—
Igashira, Toshihiko; Sakakibara, Yasuyuki; Yoshinaga, Toru; and Abe, Seiko, 4,649,887, Cl. 123-508.000.

Yoshinaka, Minoru: *See*—
Koike, Kiichi; Suzuki, Yoshie; Yoshinaka, Minoru; Okabe, Mitsuo; and Tanaka, Makoto, 4,664,994, Cl. 429-163.000.
Suzuki, Yoshie; Koike, Kiichi; Kadowaki, Minoru; and Yoshinaka, Minoru, 4,659,636, Cl. 429-54.000.

Yoshinaka, Ryoji: *See*—
Asai, Akio; Watanabe, Kazuki; Yoshinaka, Ryoji; and Kirii, Kazunari, 4,667,496, Cl. 72-20.000.

Yoshinaka, Ryozi: *See*—
Azuma, Hidekazu; Yoshinaka, Ryozi; Tsuruhashi, Takayuki; Hokao, Katsuiku; Watanabe, Kazuki; Ogo, Kazutaka; Suzuki, Takatoshi; and Hayashi, Masahiro, 4,656,868, Cl. 73-587.000.

Yoshinaka, Shinji: *See*—
Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Shinji; Kinoshita, Kimiaki; Saito, Morikuni; Yamashita, Toshiyuki; and Nanbu, Morio, 4,695,640, Cl. 549-226.000.

Yoshinaka, Sinzi: *See*—
Yahagi, Masakichi; Igaki, Tetsuo; Yoshinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,665,199, Cl. 549-226.000.

Yoshinaka, Tadaaki, to Sony Corporation. Apparatus for recording and reproducing a video signal with reduced color subcarrier interference. 4,677,497, 6-30-87, Cl. 358-310.000.

Yoshinaka, Tadaaki; Fujita, Tadao; and Yoshida, Teruyuki, to Sony Corporation. Differential gain and differential phase compensator circuit of a video signal. 4,700,239, 10-13-87, Cl. 358-310.000.

Yoshinaka, Tadaaki, to Sony Corporation. Time base corrector. 4,709,276, 11-24-87, Cl. 358-326.000.

Yoshinaka, Tadaaki; and Inoue, Takao, to Sony Corporation. Read start pulse generator for time base corrector. 4,714,954, 12-22-87, Cl. 358-19.000.

Yoshinaka, Tadaaki; Inoue, Takao; and Tomita, Kazuo, to Sony Corporation. Write clock pulse generator used for a time base corrector. 4,714,965, 12-22-87, Cl. 358-320.000.

Yoshinaka, Toshio; and Nagano, Syuji, to Toyota Jidosha Kabushiki Kaisha. Four-wheel vehicle drive system. 4,678,055, 7-7-87, Cl. 180-247.000.

Yoshinaka, Toshio; Taniguchi, Toshikatsu; Ida, Shuichiro; Nagano, Shuji; Kimura, Shigeru; and Tanaka, Yasuo, to Toyota Jidosha Kabushiki Kaisha. Power transfer device for four-wheel drive. 4,711,136, 12-8-87, Cl. 74-665.0GA.

Yoshinaka, Toshio; and Nagano, Shuji, to Toyota Jidosha Kabushiki Kaisha. Stop member mechanism for use in a four-wheel drive vehicle. 4,714,128, 12-22-87, Cl. 180-247.000.

Yoshinaka, Toshio: *See*—
Ida, Shuichiro; Yoshinaka, Toshio; and Nagano, Shuji, 4,713,980, Cl. 74-467.000.
Nagano, Shuji; Ida, Shuichiro; and Yoshinaka, Toshio, 4,679,449, Cl. 74-12.000.
Nagano, Shuji; Ida, Shuichiro; Yoshinaka, Toshio; and Okuda, Shozo, 4,690,015, Cl. 74-665.0GE.

Yoshinari, Hideki: *See*—
Matsushita, Koichi; Isohata, Junji; Yamamoto, Hironori; Miyazaki, Makoto; Ozawa, Kunitaka; and Yoshinari, Hideki, 4,676,630, Cl. 355-53.000.

Yoshinari, Jiro: *See*—
Morita, Haruyuki; Yoshinari, Jiro; and Fukuda, Kazumasa, 4,636,448, Cl. 428-607.000.
Morita, Haruyuki; Yoshinari, Jiro; and Fukuda, Kazumasa, 4,642,270, Cl. 428-621.000.

Yoshinari, Osamu; Kawakatsu, Yoshifumi; Takahashi, Hayashi; and Fukuizumi, Hideaki, to Toho Beslon Co., Ltd. Acrylic fibers for producing preoxidized fibers. 4,659,623, 4-21-87, Cl. 428-395.000.

Yoshinari, Takashi: *See*—
Kusaka, Yoshimi; Yoshinari, Takashi; and Watanabe, Hiroshi, 4,658,799, Cl. 123-622.000.

Yoshino, Akira; and Sanechika, Kenichi, to Asahi Kasei Kogyo Kabushiki Kaisha. Polyacetylene composite. 4,634,636, 1-6-87, Cl. 428-500.000.

Yoshino, Akira, to Daidousanso Co., Ltd. High-purity nitrogen gas production equipment. 4,668,260, 5-26-87, Cl. 62-11.000.

Yoshino, Akira; Sanechika, Kenichi; and Nakajima, Takayuki, to Asahi Kasei Kogyo Kabushiki Kaisha. Secondary battery. 4,668,595, 5-26-87, Cl. 429-194.000.

Yoshino, Akira, to Daidousanso Co. Ltd. Highly pure nitrogen gas producing apparatus. 4,671,813, 6-9-87, Cl. 62-32.000.

Yoshino, Akira; and Sanechika, Kenichi, to Asahi Kasei Kogyo Kabushiki Kaisha. Polyacetylene composite process for production thereof, and method for use thereof. 4,686,160, 8-11-87, Cl. 429-50.000.

Yoshino, Akira, to Daidousanso Co., Ltd. High-purity nitrogen gas production equipment. 4,698,079, 10-6-87, Cl. 62-11.000.

Yoshino, Akira: *See*—
Hasegawa, Masatake; Kobayashi, Hirotada; Sunazuka, Hideo; Yoshino, Akira; Matsuda, Takao; and Shingo, Yoshiok, 4,671,896, Cl. 252-609.000.
Nakaie, Toshiyuki; and Yoshino, Akira, 4,677,375, Cl. 324-158.00F.

Yoshino, Eiji; Matsuda, Yasumasa; and Yamada, Takahiro, to Hitachi, Ltd.; and Hitachi Seiko, Ltd. Ink-jet recording apparatus. 4,670,761, 6-2-87, Cl. 346-75.000.

Yoshino, Eiji: *See*—
Yamada, Takahiro; Namekawa, Satoshi; Yoshino, Eiji; and Matsuda, Yasumasa, 4,638,326, Cl. 346-75.000.

Yoshino, Hirobumi: *See*—
Ito, Masaji; Midorikawa, Akira; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,682,158, Cl. 340-679.000.
Midorikawa, Akira; Ito, Masaji; Shinada, Masayuki; Hirono, Tatsuo; Yoshino, Hirobumi; and Shibusawa, Mitsuo, 4,677,310, Cl. 307-64.000.

Yoshino, Hiroshi; Tsuchiya, Yutaka; Kaneko, Takeru; Nakazawa, Takahiro; Ikeda, Masuhiro; Araki, Shin; Yamatsu, Kiyomi; Tachibana, Shinro; and Arakawa, Yoshihiro, to Eisai Co., Ltd. Polypeptide. 4,707,468, 11-17-87, Cl. 514-16.000.

Yoshino, Hisakazu; Nishimura, Shinichi; and Takagi, Kazutoshi, to Tokyo Kogaku Kikai Kabushiki Kaisha. Stereo-microscope with two observation optical systems each including a right angle prism and a roof right angle prism providing both rotation and relative separation adjustments. 4,702,570, 10-27-87, Cl. 350-516.000.

Yoshino, Hisakazu; Nishimura, Shinichi; and Sasaki, Kazuyuki, to Tokyo Kogaku Kikai Kabushiki Kaisha. Eye disease inspecting instrument. 4,711,540, 12-8-87, Cl. 351-214.000.

Yoshino, Hisakazu; Nishimura, Shinichi; and Sasaki, Kazuyuki, to Tokyo Kogaku Kikai Kabushiki Kaisha. Slit lamp and accessory device thereof. 4,711,541, 12-8-87, Cl. 351-214.000.

Yoshino, Hisashi: *See*—
Fukushima, Noburu; Yoshino, Hisashi; and Nomura, Shunji, 4,642,136, Cl. 75-234.000.

Yoshino, Hozo; Koshi, Mitsuo; and Sumiyoshi, Osamu, to System Homes Company, Ltd. Inverter. 4,634,952, 1-6-87, Cl. 318-811.000.

Yoshino, Kimiaki; Ando, Eiji; Miyazaki, Jinsei; and Morimoto, Kazuhisa, to Matsushita Electric Industrial Co., Ltd. Optical recording medium and production of the same. 4,686,169, 8-11-87, Cl. 430-339.000.

Yoshino Kogyosho Co., Ltd.: *See*—
Endo, Syuzo; and Tsuchida, Haruo, 4,657,161, Cl. 222-256.000.
Iizuka, Shigeo, 4,643,338, Cl. 222-321.000.
Saito, Tadao; and Ogawa, Riichi, 4,697,722, Cl. 222-571.000.
Sato, Nobuo, 4,669,601, Cl. 198-408.000.
Sugiura, Hiroaki, 4,641,758, Cl. 215-1.00C.

Yoshino, Koichiro; Seko, Norihiko; Yokota, Koichi; Ito, Keizo; and Tsukamoto, Gore, to Kanebo, Ltd. Novel 4,5-Bis (4-methoxyphenyl)-2-(pyrrol-2-yl) thiazoles and pharmaceutical composition containing the same. 4,659,726, 4-21-87, Cl. 514-365.000.

Yoshino, Kosei: *See*—
Fuji, Kunihisa; Tomono, Noboru; Kito, Tetsuo; and Yoshino, Kosei, 4,703,295, Cl. 335-129.000.

Yoshino, Masaki; Oka, Kozo; and Koide, Fuminori, to Fuji Xerox Co., Ltd. Electrostatic printing method. 4,634,257, 1-6-87, Cl. 355-3.0CH.

Yoshino, Motoaki: *See*—
Kiya, Nobuyuki; and Yoshino, Motoaki, 4,656,405, Cl. 318-571.000.
Kiya, Nobuyuki; and Yoshino, Motoaki, 4,680,697, Cl. 364-171.000.
Kiya, Nobuyuki; and Yoshino, Motoaki, 4,714,999, Cl. 364-474.000.

Yoshino, Ryozo: *See*—
Hirai, Masato; Kurata, Masami; and Yoshino, Ryozo, 4,697,047, Cl. 178-2.00C.
Nakamura, Kazunori; Yamaga, Mitsuhiro; Yoshino, Ryozo; and Sugimoto, Norihiko, 4,675,884, Cl. 375-87.000.

Yoshino, Shigeru; Ueki, Junzo; Shibuya, Ichiro; Kawada, Shigeo; Iino, Akira; Tanzaki, Hiromasa; and Murano, Kazuo, to Silver Seiko Ltd. Method of and apparatus for mounting an electronic part. 4,670,979, 6-9-87, Cl. 29-838.000.

Yoshino, Shigeru, to Silver Seiko Limited. Industrial robot. 4,682,932, 7-28-87, Cl. 414-744.00A.

Yoshino, Tadao: *See*—
Itaba, Yasushi; Yoshino, Tadao; Yoshifuji, Yutaka; Saito, Keichiro; and Tabuchi, Jyoichi, 4,636,340, Cl. 264-22.000.
Itaba, Yasushi; Yoshino, Tadao; Yoshifuji, Yutaka; Saito, Keichiro; and Tabuchi, Jyoichi, 4,673,619, Cl. 428-338.000.

Yoshino, Takao: *See*—
Harada, Saburo; Yoshino, Takao; Takeshima, Rikio; Sengan, Masakazu; and Kissei, Kyoichi, 4,669,939, Cl. 414-173.000.

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Makino, Hiroshi; Yoshino, Tsunemi; Kihara, Tadaharu; and Takashima, Akira, 4,695,893, Cl. 358-227.000.

Yoshino, Yasuhisa; and Osada, Masahiko, to Nippon Soken, Inc. Speaker changeover device. 4,691,361, 9-1-87, Cl. 381-81.000.

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Yoshio, Arakawa, to Murata Manufacturing Co., Ltd. Electric doublelayer capacitor. 4,691,266, 9-1-87, Cl. 361-433.000.

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Kazuyuki, Ishii; Yoshio, Ebe; and Shuji, Fujieda, 4,643,470, Cl. 292-216.000.

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Yoshio, Junichi, to Pioneer Electronic Corporation. Tracking servo device. 4,698,795, 10-6-87, Cl. 369-44.000.

Yoshio, Junichi, to Pioneer Electronic Corporation. Method of generating tracking servo signal for optical disc playback apparatus. 4,707,817, 11-17-87, Cl. 369-46.000.

Yoshio, Kazuya: *See*—
Enoki, Shigenaga; Yoshio, Kazuya; and Yamaguchi, Nobuo, 4,696,364, Cl. 180-228.000.

Yoshio, Kihara. Mini-stapler. 4,650,105, 3-17-87, Cl. 227-120.000.

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Yoshioka, Akira: *See*—
Kitahara, Shizuo; Hirokawa, Yoshitsugu; Kawada, Haruki; Fujii, Toshihiro; Sugi, Nagatoshi; Hasegawa, Hiroaki; and Yoshioka, Akira, 4,654,435, Cl. 560-61.000.

Yoshioka, Akiyoshi: *See*—
Yoshizumi, Toshiaki; and Yoshioka, Akiyoshi, 4,700,284, Cl. 363-68.000.

Yoshioka, Hiroshi, to Yoshida Kogyo K.K. Apparatus for sewing slide fasteners to pairs of fabric pieces. 4,633,792, 1-6-87, Cl. 112-104.000.

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Yoshioka, Hiroshi: *See*—
Ichihashi, Hiroshi; and Yoshioka, Hiroshi, 4,665,274, Cl. 585-267.000.
Itoh, Kunio; Kozakai, Shohei; Hida, Yoshinori; Okinoshima, Hiroshige; Okada, Fumio; Oba, Toshio; Shimizu, Hisashi; Hinoto, Yuji; and Yoshioka, Hiroshi, 4,678,688, Cl. 427-387.000.
Itoh, Kunio; Fukuda, Takeshi; and Yoshioka, Hiroshi, 4,714,733, Cl. 524-493.000.
Matsuura, Kazuo; Yoshioka, Hiroshi; and Koga, Kiyoshi, 4,705,263, Cl. 267-33.000.
Yasuda, Yukihiro; Yoshioka, Hiroshi; and Takahashi, Takao, 4,658,309, Cl. 360-77.000.

Yoshioka, Ikuo. Robot hand for stacking boxes. 4,648,771, 3-10-87, Cl. 414-71.000.

Yoshioka, Junichi: *See*—
Kimura, Sosaku; Hatsuse, Toshikazu; Shimizu, Masami; Miyashita, Masakazu; Yoshioka, Junichi; Kanai, Akira; and Koizumi, Koichi, 4,656,951, Cl. 108-20.000.

Yoshioka, Kazuo, to Mitsubishi Denki Kabushiki Kaisha. Data transmission apparatus. 4,706,247, 11-10-87, Cl. 370-85.000.

Yoshioka, Kiyoharu; Hashimoto, Norio; and Sonobe, Hiraku, to Canon Kabushiki Kaisha. Film image processing apparatus. 4,700,237, 10-13-87, Cl. 358-287.000.

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Yoshioka, Kouichi: *See*—
Imai, Hiroshi; and Yoshioka, Kouichi, 4,710,830, Cl. 360-97.000.

Yoshioka, Masahiro; Izumi, Hideki; Inouye, Hiroshi; Hazaki, Eiichi; and Nakadaira, Shiro, to Hitachi, Ltd. Thrust bearing. 4,639,146, 1-27-87, Cl. 384-99.000.

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Yoshioka, Masahiro: *See*—
Satonaka, Shinobu; Takahashi, Masanobu; Wakikaido, Takahiro; and Yoshioka, Masahiro, 4,708,470, Cl. 355-77.000.

Yoshioka, Michihiko: *See*—
Shirai, Hideaki; Chiba, Kimio; Okawa, Koji; Ishibashi, Hiroshi; Ishii, Akihiro; Itoh, Hirotaka; Kuzushita, Hirokazu; Yoshioka, Michihiko; and Hirose, Michio, 4,695,515, Cl. 428-458.000.

Yoshioka, Minoru: *See*—
Aoyagi, Yoshiro; Kimura, Toshiyuki; Niinuma, Susumu; Yoshioka, Minoru; Yokogawa, Fumihiko; Matsumoto, Keiichi; Haeno, Akira; Sato, Takashi; Nishi, Yoshiro; Watanabe, Yoshihiko; Hirano, Hiroyuki; and Ogawa, Youichi, 4,701,902, Cl. 369-77[1]100.

Yoshioka, Naoki: *See*—
Tanaka, Gotaro; Mizutani, Futoshi; Yoshioka, Naoki; and Kanamori, Hiroo, 4,675,040, Cl. 65-3.120.

Yoshioka, Nobuyuki; Okunishi, Yasuji; Miura, Yasuhisa; Mori, Yoshikazu; Kataoka, Yasuki; and Adachi, Eiichi, to Dainippon Ink and Chemicals, Inc. Agricultural and horticultural guanidine-type fungicide and process for production thereof. 4,659,739, 4-21-87, Cl. 514-555.000.

Yoshioka, Noriaki: *See*—
Ikeyama, Norio; Yoshioka, Noriaki; Tamaru, Shusaku; and Ichinose, Hisashi, 4,707,261, Cl. 210-433.200.

Yoshioka, Sadashichi, Matsuoka, Tsutomu; Hamada, Shigeki; and Hinatase, Humio, to Mazda Motor Corporation. Engine intake system having a pressure wave supercharger. 4,702,218, 10-27-87, Cl. 623-559.000.

Yoshioka, Sadashichi: *See*—
Matsuura, Masahiko; Doi, Nobuo; Yoshioka, Sadashichi; Okimoto, Haruo; and Ueda, Kazuhiko, 4,683,856, Cl. 123-436.000.

Yoshioka, Takakazu, to NEC Corporation. Comparator having a hysteresis characteristic. 4,634,897, 1-6-87, Cl. 307-359.000.

Yoshioka, Takakazu: *See*—
Ishii, Eiichi; and Yoshioka, Takakazu, 4,647,870, Cl. 330-288.000.

Yoshioka, Takamoto: *See*—
Himuro, Kiyoshi; Narimatsu, Akihisa; Mibu, Katsutoshi; and Yoshioka, Takamoto, 4,663,588, Cl. 324-207.000.

Yoshioka, Takao; Kitazawa, Eiichi; Yamazaki, Mitsuo; and Iizuka, Yoshio, to Sankyo Company, Limited. 1,3-benzoxathiole derivatives. 4,691,027, 9-1-87, Cl. 549-32.000.

Yoshioka, Takashi: *See*—
Yoshida, Takashi; Yoshioka, Takashi; and Endo, Yasuhiko, 4,672,589, Cl. 367-104.000.

Yoshioka, Takeo. Water pipe. 4,638,815, 1-27-87, Cl. 131-173.000.

Yoshioka, Tatsuo: *See*—
Konishi, Yozo; Akashi, Kichizo; Watase, Hideo; and Yoshioka, Tatsuo, 4,641,271, Cl. 364-478.000.

Yoshioka, Toshiharu: *See*—
Morioka, Minoru; Kishi, Toshiaki; and Yoshioka, Toshiharu, 4,638,881, Cl. 180-219.000.

Yoshioka, Toshio; Yoshikawa, Seiichi; and Shimamura, Masaharu, to Toray Industries, Inc. Method of ion-exchanging and/or adsorption. 4,693,828, 9-15-87, Cl. 210-679.000.

Yoshioka, Toshio: *See*—
Murata, Seiichiro; Tateishi, Masaru; Yoshioka, Toshio; Kamei, Sakito; Nakazono, Hiroshi; and Yamawaki, Yoshiro, 4,660,491, Cl. 114-65.00R.

Yoshikawa, Seiichi; Yoshioka, Toshio; and Shimamura, Masaharu, 4,700,723, Cl. 131-334.000.

Yoshioka, Toshiro: *See*—
Mochida, Takaaki; Yamashita, Junichi; Yoshioka, Toshiro; and Ozawa, Michihiro, 4,683,113, Cl. 376-419.000.

Yoshioka, Yasuhiro: *See*—
Tazaki, Satoru; Yoshioka, Yasuhiro; and Amazawa, Kiyoshi, 4,694,500, Cl. 381-10.000.

Yoshioka, Yasuo: *See*—
Iida, Koujirou; Yoshioka, Yasuo; Ogawa, Hiroshi; Haruno, Kiyoshi; and Ohigashi, Tsugio, 4,682,768, Cl. 271-3.100.

Yoshioka, Yoshio: *See*—
Endo, Fumihiro; Kobayashi, Shigeo; and Yoshioka, Yoshio, 4,667,072, Cl. 200-148.00A.

Yoshioka, Yuji: *See*—
Mitomo, Mamoru; and Yoshioka, Yuji, 4,643,859, Cl. 264-65.000.

Yoshioka, Yukio: *See*—
Shinoda, Akibumi; Yoshioka, Yukio; and Kato, Akio, 4,657,471, Cl. 414-663.000.

Yoshiro, Takashima. Badge indicative of face expressions. 4,698,927, 10-13-87, Cl. 40-1.600.

Yoshirou, Satou: *See*—
Tadashi, Hirata; Yoshirou, Satou; and Yoshimitsu, Tsutsui, 4,682,401, Cl. 29-568.000.

Yoshisato, Eishin: *See*—
Ichikawa, Yataro; Yoshisato, Eishin; Harada, Toshiaki; Imai, Hiroshi; and Suzuki, Yoji, 4,662,782, Cl. 540-222.000.

Yoshisato, Randall A.; Datta, Ravindra; and Carmichael, Gregory R., to University of Iowa Research Foundation. Continuous rotating electrophoresis column and process of using. 4,642,169, 2-10-87, Cl. 204-180.100.

Yoshisato, Yorinobu: *See*—
Yasuda, Isao; Yoshisato, Yorinobu; Yoshikawa, Hideki; and Taketa, Kazuhiko, 4,713,709, Cl. 360-121.000.

Yoshitake, Akira: *See*—
Nakatsuka, Iwao; Shimizu, Hiroshi; and Yoshitake, Akira, 4,687,852, Cl. 546-20.000.

Yoshitake, Makoto; and Kishimoto, Keiichi, to Toray Silicone Co., Ltd. Thermal stabilizer for organopolysiloxane oils. 4,683,319, 7-28-87, Cl. 556-425.000.

Yoshitake, Makoto; and Kishimoto, Keiichi, to Toray Silicone Co., Ltd. Organopolysiloxane composition for viscous fluid coupling. 4,696,756, 9-29-87, Cl. 252-78.300.

Yoshitake, Makoto: *See*—
Kishimoto, Keiichi; and Yoshitake, Makoto, 4,637,889, Cl. 252-75.000.

Yoshitake, Yuji; Yokouchi, Kentaro; and Yoshikawa, Hiroyoshi, to Victor Company of Japan, Ltd. Defect detecting apparatus for a rotary recording medium. 4,638,374, 1-20-87, Cl. 358-336.000.

Yoshitani, Yoshihiro. *See*—
Morino, Seiji; Uno, Eiichi; and Yoshitani, Yoshihiro, 4,641,626, Cl. 123-620.000.

Yoshito, Kazuharu: *See*—
Kayakabe, Hiroshi; Mitomi, Masaei; Miyajima, Mikio; Nakata, Shuji; Shimizu, Tadashi; Yoshito, Kazuharu; and Nishiu, Masamichi, 4,677,021, Cl. 428-306.600.

Yoshitome, Eiji; and Hoshino, Kazuya, to Yokogawa Medical Systems, Limited. Method and apparatus for nuclear magnetic resonance imaging. 4,694,251, 9-15-87, Cl. 324-309.000.

Yoshitome, Eiji: *See*—
Hoshino, Kazuya; Yamada, Noriaki, Yoshitome, Eiji; Sugiyama, Tadashi; and Matsuura, Hiroyuki, 4,644,279, Cl. 324-309.000.

Yoshitomi Pharmaceutical Industries, Ltd.: *See*—
Akashi, Hiroyuki; Inoue, Takeshi; and Horie, Shoichi, 4,713,474, Cl. 560-66.000.
Ao, Hideki; Obata, Minoru; and Inui, Jun, 4,678,785, Cl. 514-222.000.
Ao, Hideki; Obata, Minoru; Yamanaka, Tsutomu; and Mikashima, Hiroshi, 4,713,381, Cl. 514-222.000.
Magami, Masato; Saeki, Kazumi; Miura, Takanori; and Inoue, Takeshi, 4,695,649, Cl. 560-86.000.
Tsuruda, Mineo; Oe, Takanori; Kawasaki, Kazuyuki; Mikashima, Hiroshi; and Yasuda, Hiroshi, 4,661,603, Cl. 548-346.000.
Umekawa, Osamu; and Katayama, Sakae, 4,647,577, Cl. 514-441.000.
Yamanaka, Tsutomu; and Yaoka, Osamu, 4,709,095, Cl. 564-253.000.

Yoshitomi, Tetsuro: *See*—
Tanaka, Tsuneo; Yoshitomi, Tetsuro; Hanada, Koji; Oheshi, Mashato; and Hikosaka, Michichika, 4,708,903, Cl. 428-195.000.

Yoshitomi, Yasunari; Kuroki, Katsuro; and Iwayama, Kenzo, to Nippon Steel Corporation. Process for producing a grain-oriented electrical steel sheet having a low watt loss. 4,692,193, 9-8-87, Cl. 148-111.000.

Yoshitoshi, You: *See*—
Terayama, Yasunori; Nakamura, Masashi; Fujiie, Kazuhiko; and Yoshitoshi, You, 4,687,296, Cl. 350-247.000.

Yoshitsugu, Noritada, to Toyota Jidosha Kabushiki Kaisha. Automatically fastening seatbelt assembly. 4,671,537, 6-9-87, Cl. 280-804.000.

Yoshitsugu, Noritada, to Toyota Jidosha Kabushiki Kaisha. Automatically fastening seatbelt assembly. 4,681,346, 7-21-87, Cl. 280-804.000.

Yoshitsugu, Noritada, to Toyota Jidosha Kabushiki Kaisha. Seatbelt assembly. 4,708,367, 11-24-87, Cl. 280-804.000.

Yoshitsugu, Noritada, to Toyota Jidosha Kabushiki Kaisha. Guide rail for seat belt device. 4,711,468, 12-8-87, Cl. 280-804.000.

Yoshitsugu, Noritada: *See*—
Katsuno, Mitsuaki; Gyoda, Toshio; Tanaka, Hideki; Hurumoto, Kunihiro; Yoshitsugu, Noritada; and Matsui, Kenji, 4,682,790, Cl. 280-801.000.
Tsuge, Hiroshi; Fujiwara, Akimori; and Yoshitsugu, Noritada, 4,685,741, Cl. 297-467.000.
Tsuge, Hiroshi; Fujiwara, Akinori; Yoshitsugu, Noritada; and Sugiura, Motonobu, 4,688,849, Cl. 297-250.000.

Yoshiura, Shoichiro, to Sharp Kabushiki Kaisha. Cartridge loading device for a copying machine. 4,666,290, 5-19-87, Cl. 355-14.00D.

Yoshiura, Shoichiro; and Ikeda, Haruyoshi, to Sharp Kabushiki Kaisha. Copying apparatus provided with paper size memory function. 4,669,863, 6-2-87, Cl. 355-14.0SH.

Yoshiura, Shoichiro: *See*—
Fujiwara, Katsuyoshi; Miwa, Yoshihisa; and Yoshiura, Shoichiro, 4,647,189, Cl. 355-55.000.
Fujiwara, Katsuyoshi; Miwa, Yoshihisa; and Yoshiura, Shoichiro, 4,682,877, Cl. 355-3.00R.
Fukunaga, Takahiro; and Yoshiura, Shoichiro, 4,660,960, Cl. 355-3.0DD.
Migita, Haruyoshi; and Yoshiura, Shoichiro, 4,634,266, Cl. 355-55.000.
Yamasaki, Kimihito; and Yoshiura, Shoichiro, 4,696,466, Cl. 271-288.000.

Yoshiura, Syoichiro, to Sharp Kabushiki Kaisha. Variable-magnification copying machine with automatic magnification. 4,714,944, 12-22-87, Cl. 355-55.000.

Yoshiwara, Kazuhisa: *See*—
Kodama, Takuma; Takahashi, Kenji; Ishibashi, Shizuka; Kudo, Koji; Masuda, Yukihiro; Hombough, Masanori; Miyoshi, Osamu; and Yoshiwara, Kazuhisa, 4,649,421, Cl. 358-51.000.

Yoshiwara, Seishiro; and Kawanami, Takao, to Nippon Steel Corporation. Method for producing a clad plate by rolling. 4,638,939, 1-27-87, Cl. 228-186.000.

Yoshiyagawa, Mitsugi: *See*—
Tamenori, Hiroyuki; Hattori, Akihiko; and Yoshiyagawa, Mitsugi, 4,678,652, Cl. 423-339.000.

Yoshiyama, Toshio: *See*—
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,668,076, Cl. 355-15.000.
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,674,859, Cl. 355-3.0FU.
Iseki, Masahide; Yoshiyama, Toshio; Kajita, Hiroshi; Itakiyo, Masanori; Kusumoto, Hiroshi; Kawamori, Yoshizo; and Kawamoto, Masuo, 4,685,792, Cl. 355-3.05+L.

Yoshiyama, Tsugihito: *See*—
Oda, Masataka; Yoshiyama, Tsugihito; Myochin, Hisashi; and Matsushita, Kouji, 4,688,927, Cl. 355-3.0TR.

Yoshiyasu, Hajimu; Takahashi, Mitsugu; Hisatsune, Fumiyuki; and Murata, Shiro, to Mitsubishi Denki Kabushiki Kaisha. Circuit interrupter. 4,642,428, 2-10-87, Cl. 200-144.00R.

Yoshizaki, Kiyoshi: *See*—
Kawamura, Toshimi; Yamada, Tadatoshi; Hani, Kiyoshi; and Yoshizaki, Kiyoshi, 4,694,268, Cl. 335-216.000.

Yoshizane, Koichi: *See*—
Harasaki, Hayatsugu; and Yoshizane, Koichi, 4,669,777, Cl. 296-194.000.

Yoshizawa, Atsushi: *See*—
Matsui, Fumio; Yanagisawa, Shuichi; Kakuta, Yoshiyuki; and Yoshizawa, Atsushi, 4,639,745, Cl. 346-135.100.

Yoshizawa, Hideo, to Nippon Sheet Glass Co., Ltd. Glass shaping mold. 4,678,495, 7-7-87, Cl. 65-287.000.

Yoshizawa, Hiroshi: *See*—
Nishikawa, Masaru; Aoki, Takashi; Sato, Yoichi; and Yoshizawa, Hiroshi, 4,643,049, Cl. 74-868.000.

Yoshizawa, Hisayasu, to Kabushiki Kaisha Toshiba. Analog-to-digital converter. 4,635,036, 1-6-87, Cl. 340-347.0AD.

Yoshizawa, Junji; Tsuchiya, Yoshimi; Hirayama, Yukio; Shimada, Kaoru; Mino, Nobuyuki; Nakamichi, Kyoko; and Matsumoto, Ikuo, to Banyu Pharmaceutical Co., Ltd. Anti-hepatitis and anti-cirrhotic 1,3-dithiol-2-ylidene derivatives, and pharmaceutical composition therefor. 4,668,799, 5-26-87, Cl. 514-252.000.

Yoshizawa, Kazuhiro: *See*—
Kawasaki, Ryoji; Yoshizawa, Kazuhiro; Yotsutani, Akio; Saegusa, Noboru; Ito, Koichi; and Huse, Syozi, 4,679,244, Cl. 455-54.000.

Yoshizawa, Keiichi, to Seikosha Co., Ltd. Alarm mechanism. 4,693,613, 9-15-87, Cl. 368-74.000.

Yoshizawa, Ken: *See*—
Matsushima, Seiichi; Higashihara, Toshio; Shimizu, Mitsuru; Yoshizawa, Ken; Suzuki, Masahiro; and Sugiyama, Toshinori, 4,710,913, Cl. 369-280.000.

Yoshizawa, Kenichi: *See*—
Hayakawa, Yoichi; Kawai, Masao; Yoshizawa, Kenichi; Harada, Yoshiharu; and Fukumura, Kagenori, 4,697,479, Cl. 74-867.000.

Yoshizawa, Kenji; Komura, Hirotsugu; Kodama, Hitoshi; Ohnuki, Kazushi; Shoda, Isao; Magome, Kazuo; and Ito, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Microwave discharge light source apparatus. 4,673,846, 6-16-87, Cl. 315-248.000.

Yoshizawa, Mamoru: *See*—
Osawa, Eiichi; Tanaka, Masato; Yoshizawa, Mamoru; Nakai, Tu and Kojima, Yuichi, 4,697,212, Cl. 360-48.000.

Yoshizawa, Masao: *See*—
Itaba, Yasushi; Saito, Keichiro; Tabuchi, Jyoichi; and Yoshizawa, Masao, 4,705,714, Cl. 428-215.000.

Yoshizawa, Nobuyuki: *See*—
Ishihara, Koushi; Murakami, Yasuji; Yoshizawa, Nobuyuki; and Funaki, Kiyoshi, 4,684,213, Cl. 350-96.230.

Yoshizawa, Shigemichi; and Saito, Goro, to Anritsu Corporation. Phase measurement apparatus with automatic calibration. 4,700,129, 10-13-87, Cl. 324-83.00R.

Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, to Kabushiki Kaisha Toshiba. Electrophotographic photosensitive member having barrier layer, comprising microcrystalline silicon containing hydrogen. 4,678,731, 7-7-87, Cl. 430-65.000.

Yoshizawa, Shuji, to Kabushiki Kaisha Toshiba. Electrophotographic photosensitive member containing amorphous silicon and doped microcrystalline silicon layers. 4,704,343, 11-3-87, Cl. 430-66.000.

Yoshizawa, Shuji; Mitani, Wataru; Yamamoto, Mariko; Sanjoh, Akira; and Ikezue, Tatsuya, to Kabushiki Kaisha Toshiba. Electrophotographic photosensitive member using microcrystalline silicon. 4,713,308, 12-15-87, Cl. 430-65.000.

Yoshizawa, Takeshi, to Fujitsu Limited. Mask washing apparatus for production of integrated circuit. 4,694,527, 9-22-87, Cl. 15-308.000.

Yoshizawa, Tamae; Otsuka, Kiyoto; Nagata, Shiro; and Takamatsu, Hideo, to Kuraray Company, Ltd. Method of producing a cyclized polydiene. 4,678,841, 7-7-87, Cl. 525-353.000.

Yoshizawa, Yasufumi: *See*—
Kinoshita, Toshiyuki; Arai, Toshiaki; Sato, Takao; Kubo, Takashige; Yoshizawa, Yasufumi; and Mori, Hiromichi, 4,703,422, Cl. 364-200.000.

Yoshizawa, Yasuo; and Jinno, Masatoshi, to Yoshiki Industrial Co., Ltd. Process control apparatus. 4,698,574, 10-6-87, Cl. 318-609.000.

Yoshizumi, Hajime; Amachi, Teruo; Kusumi, Takaaki; Tanaka, Takaharu; and Ishigooka, Hiroshi, to Suntory Limited. Hair tonic composition. 4,670,255, 6-2-87, Cl. 424-93.000.

Yoshizumi, Motohiko: *See*—
Shibuta, Daisuke; Kobayashi, Shinichiro; Yoshizumi, Motohiko; and Arai, Hideo, 4,668,501, Cl. 423-608.000.

Yoshizumi, Seiichi: *See*—
Gotou, Shizuo; Kagimasa, Toyohiko; Yoshizumi, Seiichi; and Shintani, Yooichi, 4,679,140, Cl. 364-200.000.

Yoshizumi, Tomoya: *See*—
Toyoshi, Seiji; Yoshizumi, Tomoya; Saeki, Masaru; and Kawakita, Tetsuya, 4,711,722, Cl. 210-638.000.

Yoshizumi, Toshiaki; and Yoshioka, Akiyoshi, to Mitsubishi Denki Kabushiki Kaisha. High-voltage thyristor converter and laser with mirror control therefor. 4,700,284, 10-13-87, Cl. 363-68.000.

Yosida, Ethuo, to Ohara Paragium Chemical Co., Ltd. Adhesive composition. 4,686,247, 8-11-87, Cl. 523-213.000.

Yosimura, Haruo: *See*—
Maeda, Hironobu; Kitahara, Seizaburo; Yosimura, Haruo; Torawaki, Takao; Yaegast, Takasi; and Yamaoka, Isao, 4,677,934, Cl. 118-58.000.

Yosinaka, Sinzi: *See*—
Yahagi, Masakichi; Igaki, Tetsuo; Yosinaka, Sinzi; Morita, Kousaku; Saito, Morikuni; and Kinoshita, Kimiaki, 4,642,357, Cl. 549-226.000.

Yost, David A., to Abbott Laboratories. Composition and method for stabilization of dinucleotides. 4,704,365, 11-3-87, Cl. 436-18.000.

Yost, Frederick G.: *See*—
Karnowsky, Maurice M.; and Yost, Frederick G., 4,652,710, Cl. 200-235.000.

Yost, George P. Universal gutter mounting system. 4,705,242, 11-10-87, Cl. 248-48.100.

Yost, Kenneth J. Manual snow clearing tool. 4,669,206, 6-2-87, Cl. 37-285.000.

Yost, William T.: *See*—
Cantrell, John H., Jr.; and Yost, William T., 4,649,750, Cl. 73-599.000.

Yotsuji, Minako: *See*—
Hirai, Shiro; Hirano, Hiroshi; Arai, Hirotoshi; Kiba, Yasuo; Shibata, Hisanari; Kusayanagi, Yoshikazu; Yotsuji, Minako; Hashiba, Kazuhiko; and Tanada, Kikuko, 4,643,849, Cl. 540-955.000.

Yotsumoto, Hatsuo: *See*—
Ozawa, Tateki; Yotsumoto, Hatsuo; and Takeyama, Tetsu, 4,647,540, Cl. 435-291.000.

Yotsutani, Akio; Makino, Masayuki; Saegusa, Noboru; and Sone, Tomoshi, to NEC Corporation. Mobile radio communication system. 4,640,986, 2-3-87, Cl. 379-60.000.

Yotsutani, Akio: *See*—
Kawasaki, Ryoji; Yoshizawa, Kazuhiro; Yotsutani, Akio; Saegusa, Noboru; Ito, Koichi; and Huse, Syozi, 4,679,244, Cl. 455-54.000.
Oda, Toshiaki; and Yotsutani, Akio, 4,656,653, Cl. 379-61.000.

Yotsuuye, David S.: *See*—
King, Ethmer W.; Kircher, Robert C., Jr.; and Yotsuuye, David S., 4,692,869, Cl. 364-448.000.

Yotsuya, Isao; Suzuki, Kenji; and Asano, Kazumasa, to Nitto Electric Industrial Co., Ltd. Tape primer composition. 4,668,576, 5-26-87, Cl. 428-353.000.

You, San Far. Structure of switch box. 4,699,289, 10-13-87, Cl. 220-3.700.

Youda, Hiroshi; Kaminaka, Nobuyuki; and Mitani, Satoru, to Matsushita Electric Industrial Co., Ltd. Magnetoresistive thin film head. 4,663,683, 5-5-87, Cl. 360-113.000.

Youda, Hiroshi: *See*—
Muraoka, Hiroaki; Sasaki, Seishi; Takahashi, Ken; and Youda, Hiroshi, 4,700,252, Cl. 360-113.000.
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Youdim, Moussa: *See*—
Pollard, Harvey B.; Ornberg, Richard; Banerjee, Dipak; Youdim, Moussa; Lelkes, Peter; and Heldman, Eli, 4,670,394, Cl. 435-240.000.

Youmans, Audrey L.: *See*—
Youmans, Gordon D.; and Youmans, Audrey L., 4,657,468, Cl. 414-563.000.

Youmans, Barry J.: *See*—
Ciammaichella, Richard C.; and Youmans, Barry J., 4,667,157, Cl. 324-204.000.

Youmans, Bruce R.: *See*—
Goss, Willis C.; Youmans, Bruce R.; Netheim, Noble M.; and Bartman, Randall K., 4,662,751, Cl. 356-350.000.

Youmans, Gordon D.; and Youmans, Audrey L. Vehicle towing apparatus. 4,657,468, 4-14-87, Cl. 414-563.000.

Younes, Rolland: *See*—
Lepere, Guy; Younes, Rolland; and Ramirez, Cristobal M., 4,635,061, Cl. 342-195.000.

Younes, Usama E., to Atlantic Richfield Company. Flame-retardant molded composition which incorporates a poly(styrene-co-maleic anhydride-co-dibromostyrene) copolymer. 4,634,731, 1-6-87, Cl. 524-502.000.

Younes, Usama E., to Atlantic Richfield Company. Flame retardant molded composition which incorporates a poly[N-(bromophenyl)-maleimide-co-styrene-co-N-phenylmalemide] copolymer. 4,661,574, 4-28-87, Cl. 526-262.000.

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Younes, Usama E., to Atlantic Richfield Company. Composition comprising a matrix resin, a flame retarding synergist, and an alternating copolymer of brominated styrene and N-brominated phenyl maleimide. 4,683,084, 7-28-87, Cl. 252-609.000.

Younes, Usama E., to Atlantic Richfield Company. Flame-retardant molded composition which incorporates a poly(styrene-CO-N-phenylmaleimide-CO-dibromostyrene) copolymer. 4,684,692, 8-4-87, Cl. 524-548.000.

Younes, Usama E., to Atlantic Richfield Company. Method for the preparation of rigid non-cellular reaction injection molded thermoset polyisocyanurate compositions. 4,709,002, 11-24-87, Cl. 528-53.000.

Younes, Usama E., to Atlantic Richfield Co. Flame-retardant molded composition which incorporates a poly(styrene-co-maleic anhydride-co-dibromostyrene) copolymer. 4,711,941, 12-8-87, Cl. 526-272.000.

Young, Alan H.: *See*—
Brazier, John F.; Young, Alan H.; Viney, John E.; and Sutton, Gordon W., 4,708,638, Cl. 431-116.000.

Young, Alan M.: *See*—
Dahlin, Erik B.; Kaiser, Sidney V.; Young, Alan M.; and Levien, Andrew K., 4,660,421, Cl. 73-861.380.

Young, Alastair J., to Automotive Products plc. Transmission control system. 4,660,441, 4-28-87, Cl. 74-867.000.

Young, Alastair J., to Automotive Products plc. Change speed transmission. 4,667,526, 5-26-87, Cl. 74-331.000.

Young, Alva L. Motorized wheel chair. 4,641,720, 2-10-87, Cl. 180-6.240.

Young, Archie R.; Ho, Teh C.; Jacobson, Allan J.; and Chianelli, Russell R., to Exxon Research and Engineering Company. Supported, Mn sulfide promoted Mo and W sulfide hydroprocessing catalysts and uses thereof. 4,668,376, 5-26-87, Cl. 208-108.000.

Young, Archie R.: *See*—
Ho, Teh C.; Chianelli, Russell R.; Jacobson, Allan J.; and Young, Archie R., 4,698,145, Cl. 208-18.000.

Young, Austin H.: *See*—
Douglass, Eugene F.; Sullivan, Michael J.; and Young, Austin H., 4,663,388, Cl. 525-54.300.

Young, Bill M., to Halliburton Company. High strength, chemical resistant particulate solids and methods of forming and using the same. 4,660,642, 4-28-87, Cl. 166-280.000.

Young, Bill M., to Halliburton Company. Methods and compositions for consolidating solids in subterranean zones. 4,669,543, 6-2-87, Cl. 166-276.000.

Young, Brad J. Portable low profile mechanical scales. 4,682,665, 7-28-87, Cl. 177-139.000.

Young, Bryan F.: *See*—
Avery, Don E.; and Young, Bryan F., 4,699,574, Cl. 417-559.000.

Young, Charles E.: *See*—
Gruen, Dieter M.; Young, Charles E.; and Pellin, Michael J., 4,686,979, Cl. 128-303.100.

Young, Chung C.; Coleman, Robert L.; Sullivan, Sheila M.; Grimes, John F.; Baumeister, Ferdnand; MacIndoe, Robert; Catalano, Lou; Coppola, Pat; Spaziani, Fred; Rodomista, Guy; and Fowler, James E. Apparatus and control kit for analyzing blood sample values including hematocrit. 4,686,479, 8-11-87, Cl. 324-439.000.

Young, Clinton J. T., to Vasco, Ltd. Variable aspect display. 4,663,871, 5-12-87, Cl. 40-454.000.

Young, Colin G. Automatic fuel tank anti B.L.E.V.E. safety apparatus and system. 4,680,937, 7-21-87, Cl. 62-54.000.

Young, Colin G. Computerized, central hydraulic, electronic variable suspension. 4,700,972, 10-20-87, Cl. 280-707.000.

Young, D. Raymond: *See*—
Dolengowski, George A.; and Young, D. Raymond, 4,658,387, Cl. 367-144.000.

Young, David A., to Exxon Chemical Patents Inc. Rhodium catalyzed hydroformylation of alpha-substituted alpha-olefins. 4,642,388, 2-10-87, Cl. 568-454.000.

Young, David A., to Young Rubber Company. Permanent non-removable insulating type concrete wall forming structure. 4,706,429, 11-17-87, Cl. 52-309.120.

Young, David A.: *See*—
Gibson, Clayton H.; and Young, David A., 4,699,354, Cl. 251-61.500.

Young, David C. Abrading material. 4,704,757, 11-10-87, Cl. 15-104.940.

Young, David G., to Mountain States Telephone and Telegraph Company, The. Remote monitoring apparatus. 4,675,896, 6-23-87, Cl. 379-34.000.

Young, David J. Electric cable container and dispenser. 4,650,073, 3-17-87, Cl. 206-409.000.

Young, David J., to Associated Electrical Industries Limited. Power supply for single-phase traction system. 4,689,735, 8-25-87, Cl. 363-155.000.

Young, David N., to Keneticon Limited. Heating oven. 4,695,707, 9-22-87, Cl. 219-392.000.

Young, Donald C.; and Green, James A., II, to Union Oil Company of California. Ion exchange methods for removing biuret from urea. 4,650,901, 3-17-87, Cl. 564-73.000.

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Young, Donald C.; and Green, James A., II, to Union Oil Company of California. Methods for removing biuret from urea by ion exchange. 4,658,059, 4-14-87, Cl. 564-73.000.

Young, Donald C., to Union Oil Company of California. Methods for hydrolyzing polysaccharides and compositions useful therein. 4,664,717, 5-12-87, Cl. 127-37.000.

Young, Donald C., to Union Oil Company of California. Methods for removing obstructions from conduits with urea-sulfuric acid compositions. 4,673,522, 6-16-87, Cl. 252-87.000.

Young, Donald C., to Union Oil Company of California. Methods for enhancing the productivity of plants. 4,682,999, 7-28-87, Cl. 71-28.000.

Young, Donald C., to Union Oil Co. of California. Electrolytic bath and methods of use. 4,686,017, 8-11-87, Cl. 204-45.100.

Young, Donald C.; and Green, James A., II, to Union Oil Company of California. Biuret purification. 4,698,443, 10-6-87, Cl. 564-38.000.

Young, Donald C., to Union Oil Company of California. Method for treating an aerosol to remove suspended particles therefrom. 4,699,633, 10-13-87, Cl. 55-5.000.

Young, Donald C.; and Green, James A., II, to Union Oil Company of California. Methods for removing biuret from urea by adsorption. 4,701,555, 10-20-87, Cl. 564-38.000.

Young, Donald C.: *See*—
Green, James A., II; and Young, Donald C., 4,645,859, Cl. 564-38.000.
Green, James A., II; and Young, Donald C., 4,645,860, Cl. 564-73.000.

Young, Donald R.: *See*—
Amos, Lynn G.; Saikkonen, Stuart L.; and Young, Donald R., 4,662,307, Cl. 118-50.100.

Young, Edgar W.: *See*—
Fram, William J., III; Hazelton, Donald R.; and Young, Edgar W., 4,673,604, Cl. 428-95.000.

Young, Elaine L.; and Spector, George. Artificial flower. 4,708,892, 11-24-87, Cl. 428-24.000.

Young Engineering Inc.: *See*—
Hankinson, Julian E., Jr., 4,700,642, Cl. 112-121.140.

Young, Gary B., to Tymco, Inc. Pickup truck mounted sweeper. 4,660,248, 4-28-87, Cl. 15-340.000.

Young, Gladstone F.; Green, Richard F.; Miller, S. David; and Quinlan, Thomas J., III, to Data Switch Corporation. Matrix switch system. 4,683,564, 7-28-87, Cl. 370-63.000.

Young, Glen C., to General Electric Company. Laundering apparatus. 4,642,537, 2-10-87, Cl. 318-254.000.

Young, Gordon W. Teleconferencing and teaching method and apparatus. 4,682,957, 7-28-87, Cl. 434-307.000.

Young, Grant A., to Amoco Corporation. Tangentially staged hydrocyclones. 4,711,720, 12-8-87, Cl. 210-512.200.

Young, H. Gerald: *See*—
Petralia, Salvatore; and Young, H. Gerald, 4,686,736, Cl. 15-332.000.

Young, Harold R.: *See*—
Furrow, Roger W.; Young, Harold R.; and Dye, G. Frank, 4,687,033, Cl. 141-59.000.

Young, Hartley F., to Ralph McKay Limited. Rail fastening systems. 4,685,618, 8-11-87, Cl. 238-310.000.

Young, Hartley F.; and Collins, John L., to Ralph McKay Limited. Rail clip support. 4,688,719, 8-25-87, Cl. 238-351.000.

Young, Harvey J.; and Leonard, Gerard E., to R. J. Reynolds Tobacco Company. Process for providing roll reconstituted tobacco material. 4,646,764, 3-3-87, Cl. 131-370.000.

Young, Iain M.: *See*—
Whatmore, Roger W.; and Young, Iain M., 4,634,913, Cl. 310-313.00A.

Young, Ian, to Intel Corporation. Substrate bias generator including multivibrator having frequency independent of supply voltage. 4,710,647, 12-1-87, Cl. 307-297.000.

Young, Ian A., to Intel Corporation. Common gate MOS differential sense amplifier. 4,658,160, 4-14-87, Cl. 307-530.000.

Young, Ian R., to Picker International Limited. Nuclear magnetic resonance methods and apparatus. 4,642,568, 2-10-87, Cl. 324-309.000.

Young, Ian R., to Picker International Limited. Nuclear magnetic resonance apparatus. 4,644,275, 2-17-87, Cl. 324-307.000.

Young, Ian R., to Picker International Limited. Nuclear magnetic resonance imaging. 4,646,023, 2-24-87, Cl. 324-309.000.

Young, Ian R., to Picker International, Inc. Nuclear magnetic resonance methods and apparatus. 4,683,432, 7-28-87, Cl. 324-309.000.

Young, Ian R., to Picker International Ltd. Nuclear magnetic resonance imaging methods and apparatus. 4,703,269, 10-27-87, Cl. 324-309.000.

Young, James: *See*—
Hanak, Joseph J.; Young, James; Kuypers, Bert; and Blood, Richard, 4,636,579, Cl. 136-245.000.
Johnson, Peter E.; and Young, James, 4,648,417, Cl. 134-105.000.

Young, James D., to Minnesota Mining and Manufacturing Company. Electrographic stylus recording apparatus. 4,635,074, 1-6-87, Cl. 346-74.200.

Young, James D.: *See*—
Hoyne, Earl K.; Nordeen, Charles K.; and Young, James D., 4,646,112, Cl. 346-153.100.

Young, James E., to Hewlett-Packard Company. Cable/computer peripheral lock. 4,669,281, 6-2-87, Cl. 70-57.000.

Young, James G.: *See*—
Tsau, Josef H.; and Young, James G., 4,704,288, Cl. 426-99.000.

Young, James P.; Weber, Robert J.; and Kaelin, G. Robert, to United States of America, Air Force. Monolithic low noise amplifier with limiting. 4,683,443, 7-28-87, Cl. 330-277.000.

Young, James R.: *See*—
Thaler, Barry J.; Mykietyn, Edward; and Young, James R., 4,675,639, Cl. 336-185.000.

Young, Jeffrey H. Fuel injector testing device. 4,712,421, 12-15-87, Cl. 73-119.00A.

Young, Jeffrey M.: *See*—
Weitzman, David H.; and Young, Jeffrey M., 4,667,291, Cl. 364-401.000.

Young, Jerald A.: *See*—
Johnson, Charles A.; and Young, Jerald A., 4,686,639, Cl. 364-559.000.

Young, Jerry D.; and Seiden, Paul, to Procter & Gamble Company, The. Control of browning reactions in baked goods by addition of soda and an emulsifier. 4,650,686, 3-17-87, Cl. 426-321.000.

Young, Jing J.; and Stuart, Richard L., to Regency Electronics, Inc. Digital modulation method for standard broadcast FM subcarrier. 4,660,193, 4-21-87, Cl. 370-11.000.

Young, Joe A.: *See*—
Wardlaw, Louis J., III; and Young, Joe A., 4,711,300, Cl. 166-153.000.

Young, John. Orthopedic appliance. 4,641,882, 2-10-87, Cl. 297-181.000.

Young, John D.: *See*—
Trzaskos, Casmir R.; and Young, John D., 4,659,956, Cl. 310-335.000.

Young, John N., to Charles C. Worth Corporation. Spinning reel with quickly adjustable disc drag. 4,645,137, 2-24-87, Cl. 242-84.50A.

Young, John R.: *See*—
Axford, Robin; and Young, John R., 4,656,901, Cl. 83-55.000.

Young, John W.; Luke, Roger D.; Rhodes, Henry J.; and Hudgins, Jeffrey K., to Siemens-Allis, Inc. Solenoid actuated high speed, high current making switch with a movable contact ring. 4,649,240, 3-10-87, Cl. 200-82.00R.

Young, Joseph C.: *See*—
Leiby, David W.; and Young, Joseph C., 4,669,874, Cl. 356-124.000.

Young, Kenneth E.; and Bateman, Bruce L., to Cypress Semiconductor Corp. Memory array biasing circuit for high speed CMOS device. 4,636,983, 1-13-87, Cl. 365-181.000.

Young, Kenneth E.; Dudley, Hubert T.; and Frohlich, Robert T., to W. R. Grace & Co. Fastener for securing roofing material to cementitious roof decks. 4,641,471, 2-10-87, Cl. 52-361.000.

Young, Kenneth E.; Dudley, Hubert T.; and Frohlich, Robert T., to W. R. Grace & Co. Fastener for securing roofing material to cementitious roof decks having removable tab. 4,641,472, 2-10-87, Cl. 52-361.000.

Young, Kenneth E.: *See*—
Bridges, John A.; and Young, Kenneth E., 4,676,636, Cl. 356-153.000.

Young, Kenneth P., to Alumax, Inc. Method of producing shaped metal parts. 4,687,042, 8-18-87, Cl. 164-80.000.

Young, Kenneth P.; Tyler, Derek E.; Cheskis, Harvey P.; and Wallace, W. Gary, to Alumax, Inc. Process and apparatus for continuous slurry casting. 4,709,746, 12-1-87, Cl. 164-455.000.

Young, Lawrence R.; Sexton, Gregory J.; Mullins, Randal L.; Bradley, Brian D., to Eastman Kodak Company. Ink level detection system for ink jet printing apparatus. 4,639,738, 1-27-87, Cl. 346-75.000.

Young, Leon; and Klassen, Edward J., deceased (by Klassen, Anne K., legal representative), to Fotima International Ltd. Camera carrier. 4,714,184, 12-22-87, Cl. 224-253.000.

Young, Lewis C. P. Insulated construction panel and method. 4,674,253, 6-23-87, Cl. 52-404.000.

Young, Lock R., to Harris Corporation. Waveguide expansion joint. 4,675,633, 6-23-87, Cl. 333-257.000.

Young, Marilyn M. Neck and facial lift band assembly. 4,694,823, 9-22-87, Cl. 128-76.00B.

Young, Mark S.; Drew, John; and Shebanow, Michael C., to Advanced Micro Devices, Inc. Method and apparatus for transferring data between a disk and a central processing unit. 4,667,286, 5-19-87, Cl. 364-200.000.

Young, Mark S.; Drew, John; and Shebanow, Michael C., to Advanced Micro Devices, Inc. Method and apparatus for error detection and correction in systems comprising floppy and/or hard disk drives. 4,667,326, 5-19-87, Cl. 371-40.000.

Young, Michael C. Offset wheel bracket assembly. 4,706,938, 11-17-87, Cl. 254-133.00S.

Young, Michael J. R., to General Dispensing Systems Limited. Transport system for material in powder or like form. 4,648,557, 3-10-87, Cl. 239-102.200.

Young, Michael J. R., to General Dispensing Systems Limited. Fluid flow control valve. 4,653,525, 3-31-87, Cl. 137-238.000.

Young, Michael W.; Founds, Henry W.; and Zuk, Peter, Jr., to VXR, Inc. Sparger and apparatus for and method of growing cells. 4,668,632, 5-26-87, Cl. 435-284.000.

Young, Murray M., to University of Waterloo. Method and apparatus for multiphase contacting between gas, solid and liquid phases. 4,643,972, 2-17-87, Cl. 435-252.000.

Young, Neil E., to Associated Oiltools, Inc. Apparatus and method for removing combustibles from drill cuttings. 4,654,150, 3-31-87, Cl. 210-774.000.

Young, Niels O. Magnet ball pump. 4,642,036, 2-10-87, Cl. 417-353.000.

Young, Niels O., to Helix Technology Corporation. Linear motor compressor with clearance seals and gas bearings. 4,644,851, 2-24-87, Cl. 92-127.000.

Young, Niels O., to Helix Technology Corporation. Linear drive motor control in a cryogenic refrigerator. 4,664,685, 5-12-87, Cl. 62-6.000.

Young, Niels O., to Helix Technology Corporation. Magnetically balanced and centered electromagnetic machine and cryogenic refrigerator employing same. 4,697,113, 9-29-87, Cl. 310-75.000.

Young, Orville R. Pneumatic spring support system. 4,706,988, 11-17-87, Cl. 280-676.000.

Young, Patrick. TV schedule system and process. 4,706,121, 11-10-87, Cl. 358-142.000.

Young, Paul R.; Koutek, Mary E.; and Kelly, John A., to Nalco Chemical Company. Polyacrylate scale inhibition. 4,680,124, 7-14-87, Cl. 210-697.000.

Young, Peter L., to Optical Materials, Inc. Method and apparatus for electrically disconnecting conductors. 4,661,214, 4-28-87, Cl. 204-15.000.

Young, Peter L., to Optical Materials, Inc. Method and apparatus for making electrical connections utilizing a dielectric-like metal film. 4,681,778, 7-21-87, Cl. 427-96.000.

Young, Peter L.; and Chen, Chiu-Chao, to Gould Inc. Multichip thin film module. 4,698,662, 10-6-87, Cl. 357-80.000.

Young, Peter L.; Cech, Jay; and Li, Kin, to Gould Inc. Thin-film electrical connections for integrated circuits. 4,705,606, 11-10-87, Cl. 204-15.000.

Young, Philip J.: *See*—
Riley, Eric K.; Dudill, Roger; and Young, Philip J., 4,673,348, Cl. 431-115.000.

Young, Ping: *See*—
Polak, Anthony J.; and Young, Ping, 4,714,482, Cl. 55-158.000.

Young, Quentin H., to Southern Steel Company. Door locking system. 4,640,108, 2-3-87, Cl. 70-129.000.

Young, Quentin H., to Southern Steel Company. Door locking system. 4,691,542, 9-8-87, Cl. 70-129.000.

Young, Raymond R.; Deffner, John F.; and Barnes, Russell M., to Visual Marketing Inc. Shelf-supported expandable gravity feed system. 4,685,574, 8-11-87, Cl. 211-59.200.

Young, Raymond R.; Deffner, John F.; and Barnes, Russell M., to Visual Marketing Inc. Vertical display system. 4,688,684, 8-25-87, Cl. 211-59.400.

Young, Raymond W.: *See*—
Lund, Eric W.; and Young, Raymond W., 4,682,310, Cl. 368-278.000.

Young, Richard A.: *See*—
Akiyama, James K.; Freysing, Klaus D.; and Young, Richard A., 4,647,716, Cl. 174-77.00R.

Young, Richard K., to Phillips Petroleum Company. Tube support and flow director. 4,697,637, 10-6-87, Cl. 165-160.000.

Young, Robert F.: *See*—
Dunham, William D.; Flaig, John D.; Petersen, H. Norman; and Young, Robert F., 4,708,673, Cl. 440-7.000.

Young, Robert G., to New Holland Inc. Adjasting apparatus for baler packer assembly. 4,644,862, 2-24-87, Cl. 100-189.000.

Young, Robert N.; and Zamboni, Robert, to Merck Frosst Canada, Inc. 2-[(substituted)-phenoxymethyl]quinolines. 4,961,499, 4-28-87, Cl. 514-311.000.

Young, Robert N.; and Rokach, Joshua, to Merck Frosst Canada, Inc. Propylphenoxy pyridine carboxylates as leukotriene antagonists. 4,666,928, 5-19-87, Cl. 514-350.000.

Young, Robert N.: *See*—
Frenette, Richard; Rokach, Joshua; Kakushima, Masatoshi; and Young, Robert N., 4,683,325, Cl. 560-10.000.

Young, Rocky M.; and Vo, Tri T., to NCR Corporation. System for performing virtual look-ahead memory operations. 4,694,395, 9-15-87, Cl. 364-200.000.

Young, Rocky M-Y.: *See*—
Kaino, Masami S.; and Young, Rocky M-Y., 4,700,344, Cl. 370-94.000.

Young, Rodney C.: *See*—
Brown, Thomas H.; Mitchell, Robert C.; Smith, Ian R.; and Young, Rodney C., 4,681,883, Cl. 514-212.000.
Jones, Martin; and Young, Rodney C., 4,652,572, Cl. 514-336.000.
Roantree, Michael L.; and Young, Rodney C., 4,656,176, Cl. 514-256.000.

Young, Ronald: *See*—
Ferguson, Harry D.; Lee, Kar-Kui; Oliver, William; Kwong, Fat-Cho; Young, Ronald; Hammell, Jim; Morrow, Keith; and Chaudhary, Rashid A., 4,673,920, Cl. 340-521.000.

Young, Ronald D. Apparatus for handling compactible articles. 4,703,611, 11-3-87, Cl. 53-529.000.

Young, Ronald F.: *See*—
Melfi, Teresa; Young, Ronald F.; and Crockett, Dennis D., 4,675,056, Cl. 148-24.000.
Weaver, Robert J.; Young, Ronald F.; and Crockett, Dennis D., 4,683,011, Cl. 148-26.000.

Young, Ronald L.; Rock, Eugene F.; and Brandt, David E., to Erda, Inc. Adjustable chair having roller cam adjustment mechanism. 4,671,572, 6-9-87, Cl. 297-349.000.

Young, Ronald W., to British Aerospace PLC. Co-operative satellites. 4,691,882, 9-8-87, Cl. 244-158.00R.

Young, Rosa; and Mytilineou, Eugenia, to Energy Conversion Devices, Inc. Data storage device including a phase changeable material. 4,653,024, 3-24-87, Cl. 365-113.000.

Young, Rosa; and Ovshinsky, Stanford R., to Energy Conversion Devices, Inc. Data storage medium incorporating a transition metal for increased switching speed. 4,710,899, 12-1-87, Cl. 365-113.000.

Young Rubber Company: *See*—
Young, David A., 4,706,429, Cl. 52-309.120.

Young, Shuenn T.: *See*—
Chang, Sien S.; and Young, Shuenn T., 4,651,280, Cl. 364-413.000.

Young, Steven D.: *See*—
Baldwin, John J.; Huff, Joel R.; Vacca, Joseph P.; Young, Steven D.; deSolms, Jane; and Guare, James P., Jr., 4,710,504, Cl. 514-267.000.

Young, Susan K.: *See*—
Cotter, Richard; Johnson, Robert C.; Rowe, W. Bruce; and Young, Susan K., 4,678,807, Cl. 514-552.000.

Young, Thomas A., to Hubbell Incorporated. Heat distributing diode mounting assembly. 4,675,785, 6-23-87, Cl. 361-386.000.

Young, Thomas B., III: *See*—
Beck, Donald; Miller, James W.; Wernau, William C.; and Young, Thomas B., III, 4,639,322, Cl. 252-8.554.

Young, Thomas F., to Electro Adapter, Inc. Clamping band for electromagnetic shielding band cable connector. 4,646,393, 3-3-87, Cl. 24-20.00R.

Young, Thomas M.: *See*—
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Fenton, Paul V., Jr.; and Young, Thomas M., 4,673,394, Cl. 604-175.000.

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Young, Vernon V.: *See*—
Williams, Robert D.; Bright, David R.; Young, Vernon V.; and Martin, Jerome L., 4,654,334, Cl. 514-184.000.

Young, Walter M., to AMP Incorporated. Method for manufacturing two-sided circuit board. 4,645,732, 2-24-87, Cl. 430-314.000.

Young, Willard A., to Litton Systems Canada, Ltd. Radar signal processing system. 4,665,402, 5-12-87, Cl. 342-91.000.

Young, William A. Three-tired vehicle carrier. 4,700,673, 10-20-87, Cl. 224-42.070.

Young, William E.: *See*—
Draper, Robert; Young, William E.; Spurrier, Francis R.; and Dilmore, James A., 4,664,986, Cl. 429-26.000.

Young, William I., to Hy-Con Products, Inc. Container for static-sensitive articles. 4,712,674, 12-15-87, Cl. 206-328.000.

Young, William K., to T-Bar Incorporated. Cable organizing and protection system and method. 4,679,123, 7-7-87, Cl. 361-428.000.

Young, William M.; and Wolfe, Mark E., to Delco Electronics Corporation. Method and apparatus for through hole substrate printing. 4,710,395, 12-1-87, Cl. 427-8.000.

Young, William P., to William P. Young Co. Container capping apparatus. 4,696,143, 9-29-87, Cl. 53-289.000.

Young, William S.: *See*—
Hoofnagle, Rodger A.; and Young, William S., 4,673,500, Cl. 210-307.000.

Youngblood, James F.: *See*—
Schellstede, Herman J.; and Youngblood, James F., 4,639,258, Cl. 55-52.000.

Youngborg, Lamont H., to General Electric Company. Method and apparatus for protection of pump systems. 4,650,633, 3-17-87, Cl. 376-210.000.

Youngdale, Gilbert A., to Upjohn Company, The. 1,2-dihydro-2-oxo-3-hydroxymethyl pyridines, compositions and use. 4,645,766, 2-24-87, Cl. 514-345.000.
Younger, Gilbert W. Throttle valve system for automatic transmissions. 4,711,140, 12-8-87, Cl. 74-865.000.
Youngers, Stephen A.: *See*—
Kassner, Harry W.; Draney, Robert G.; and Youngers, Stephen A., 4,650,370, Cl. 405-183.000.
Youngquist, Robert C.: *See*—
Shaw, Herbert J.; Youngquist, Robert C.; and Brooks, Janet L., 4,684,215, Cl. 350-96.290.
Youngner, Daniel: *See*—
Brownell, David J.; Christensen, Daniel C.; Erie, David G.; and Youngner, Daniel, 4,642,162, Cl. 156-643.000.
Youngner, Daniel W.: *See*—
Finn, Chris J.; and Youngner, Daniel W., 4,679,308, Cl. 29-576.00B.
Youngquist, Robert C.; Brooks, Janet L.; Fesler, Kenneth A.; Cutler, Cassius C.; and Shaw, Herbert J., to Leland Stanford Junior University, The Board of Trustees of the. Coherent distributed sensor and method using short coherence length sources. 4,697,926, 10-6-87, Cl. 356-345.000.
Youngquist, Robert C.: *See*—
Brooks, Janet L.; Tur, Moshe; Youngquist, Robert C.; Kim, Byoung Y.; Wentworth, Robert H.; Shaw, Herbert J.; and Blotekjaer, Kjell, 4,699,513, Cl. 356-345.000.
Youngs, John D.: *See*—
Ramus, Kevin J.; and Youngs, John D., 4,654,067, Cl. 65-60.500.
Youngstrom, Richard E.: *See*—
Jenkins, John K.; Chiu, John S.; Eckhart, Charles G.; McNamara, Paul E.; Rosenhouse, Stanley; and Youngstrom, Richard E., 4,634,556, Cl. 540-310.000.
Yount, Larry J.; Wilt, Nicholas J.; Hill, Bryan H.; and Peterson, Donald A., Jr., to Honeywell Inc. Real-time software monitor and write protect controller. 4,683,532, 7-28-87, Cl. 364-200.000.
Yourd, Raymond A., III: *See*—
Berkes, John S.; Yourd, Raymond A., III; and Koch, Ronald J., 4,672,018, Cl. 430-124.000.
Friends, Gary D.; Chromecek, Richard C.; and Yourd, Raymond A., III, 4,663,409, Cl. 526-242.000.
Yousey, Kevin E.: *See*—
Ville, Ivan B.; Walling, James D.; and Yousey, Kevin E., 4,638,759, Cl. 118-657.000.
Yousina, Norio: *See*—
Osaki, Sigemi; Yousina, Norio; Morishita, Tsuyoshi; and Kawado, Yasuhumi, 4,678,633, Cl. 419-8.000.
Youssefyeh, Raymond D.; Skiles, Jerry W.; Suh, John T.; and Jones, Howard, to USV Pharmaceutical Corporation. N-carboxy anhydride intermediates. 4,686,295, 8-11-87, Cl. 548-226.000.
Youssefyeh, Rina. Skin treatment compositions comprising unoxidized nerve tissue. 4,714,615, 12-22-87, Cl. 424-95.000.
Youtie, Robert K. Scroll type fluid displacement apparatus. 4,677,949, 7-7-87, Cl. 123-235.000.
Youtt, Stanley A.; and Dixon, John W., to American Tank & Fabricating Co., The. Container structure for dangerous material. 4,697,618, 10-6-87, Cl. 137-587.000.
Yoxon, Brian; and Thilwind, William, to Pilkington Brothers P.L.C. Sealed double glazing unit. 4,680,206, 7-14-87, Cl. 528-34.000.
Ytong AG: *See*—
Dick, Michael; Zechmair, Wilhelm; and Bayer, Peter, 4,667,452, Cl. 52-650.000.
Ytter, Willy, to Extraversion, Inc. Display device. 4,678,246, 7-7-87, Cl. 312-114.000.
Yu, Chia-Nien: *See*—
Pelosi, Stanford S., Jr.; and Yu, Chia-Nien, 4,643,996, Cl. 514-336.000.
Yu, Chorng-Tao, to Thermco Systems, Inc. Diffusion furnace multi-zone temperature control. 4,711,989, 12-8-87, Cl. 219-390.000.
Yu, Dong W.: *See*—
Uhm, Sung J.; Lee, Tae J.; Choi, Eun S.; and Yu, Dong W., 4,675,434, Cl. 560-99.000.
Yu, Francis T. S., to United States of America, Air Force. Real-time programmable optical correlator. 4,695,973, 9-22-87, Cl. 364-822.000.
Yu, Gui-Yu: *See*—
Wallace, William E.; and Yu, Gui-Yu, 4,656,023, Cl. 423-644.000.
Yu, Ho; and Granger, Douglas A., to Aluminum Company of America. Process and apparatus for reducing macrosegregation adjacent to a longitudinal centerline of a solidified body. 4,709,747, 12-1-87, Cl. 164-487.000.
Yu, Ho: *See*—
Jacoby, John E.; Yu, Ho; and Ramser, Robert A., 4,709,740, Cl. 164-5.000.
Yu, Hongchang; Yang, Zhen; Wang, Chaodong; and Zai, Zhongqing. Thermostable polycrystalline diamond body, method and mold for producing same. 4,643,741, 2-17-87, Cl. 51-295.000.
Yu, Laura H. C.: *See*—
Clements, James R.; Yu, Terry T. J.; and Yu, Laura H. C., 4,667,401, Cl. 29-832.000.
Yu, Li K., to Fu-Chi Metalic Engineering Co. Ltd. Hydraulic jack. 4,641,815, 2-10-87, Cl. 254-93.00H.
Yu, Michael C.; and Wright, Roy F., to Phillips Petroleum Company. Poly(arylene sulfide) coating compositions. 4,711,796, 12-8-87, Cl. 427-185.000.
Yu, Oliver T., to Microtel Limited. Method for generating stroke-vector characters for use in a display system. 4,658,248, 4-14-87, Cl. 340-739.000.
Yu, Oliver T., to Microtel Limited. Stroke-vector character generator. 4,660,028, 4-21-87, Cl. 340-739.000.
Yu, Oliver T., to Microtel Limited. Technique for scaling characters in a stroke-vector display system. 4,672,370, 6-9-87, Cl. 340-739.000.
Yu, Philip S.: *See*—
Lebizay, Gerald; Lien, Yeong-Chang L.; and Yu, Philip S., 4,706,150, Cl. 340-825.500.
Yu, Robert C. U.; Horgan, Anthony M.; and Wieloch, Francis J., to Xerox Corporation. Electrostatographic imaging member with anti-curl layer comprising a reaction product of a binder bi-functional coupling agent and crystalline particles. 4,654,284, 3-31-87, Cl. 430-59.000.
Yu, Robert C. U.: *See*—
Horgan, Anthony M.; LaFrance, Alfred T.; Wieloch, Francis J.; and Yu, Robert C. U., 4,664,995, Cl. 430-59.000.
Yu, Simon H., to B F Goodrich Company, The. Styryl terminated macromolecular monomers of polyethers. 4,680,358, 7-14-87, Cl. 526-292.900.
Yu, Stella S. T.: *See*—
Adelstein, Gilbert W.; Moormann, Alan E.; and Yu, Stella S. T., 4,687,775, Cl. 514-300.000.
Yu, Terry T.; and Yen, Mei-Rong, to Energy Conversion Devices, Inc. Tellurium imaging composition including improved reductant precursor and method. 4,698,184, 10-6-87, Cl. 260-396.00R.
Yu, Terry T. J.: *See*—
Clements, James R.; Yu, Terry T. J.; and Yu, Laura H. C., 4,667,401, Cl. 29-832.000.
Yu, Thomas C.; Vogt, Robert K.; and Wilkins, John J., to E. W. Buschman Company, The. Package sortation conveyor. 4,711,341, 12-8-87, Cl. 198-372.000.
Yu, Wellington C.: *See*—
Ng, Chan Y.; Ouchi, Norman K.; Wang, David T.; and Yu, Wellington C., 4,680,653, Cl. 360-72.200.
Yu, Wen C. Paper clip. 4,706,342, 11-17-87, Cl. 24-67.900.
Yu, Yuan-Fu: *See*—
Seyferth, Dietmar; and Yu, Yuan-Fu, 4,639,501, Cl. 528-15.000.
Seyferth, Dietmar; Wood, Timothy G.; and Yu, Yuan-Fu, 4,645,807, Cl. 525-474.000.
Seyferth, Dietmar; and Yu, Yuan-Fu, 4,650,837, Cl. 525-478.000.
Seyferth, Dietmar; Yu, Yuan-Fu; and Targos, Tom S., 4,705,837, Cl. 528-31.000.
Yu-Zhong, Liu, to North China Research Institute of Electro-Optics. Process for providing lithium tantalum oxide coated tantalum articles with improved wear resistance. 4,678,546, 7-7-87, Cl. 204-32.100.
Yuan, Han-Tzong: *See*—
Gabriel, Nancy J. S.; Yuan, Han-Tzong; and Tiku, Shiban K., 4,672,414, Cl. 357-34.000.
McLevige, William V.; Yuan, Han-Tzong; Duncan, Walter M.; and Doerbeck, Friedrich H., 4,654,960, Cl. 29-576.00B.
Yuan, James J. Nail clipper and retainer and disposer of nail clippings. 4,648,415, 3-10-87, Cl. 132-73.000.
Yuan, Lo J., to Top Driver Enterprise Co., Ltd. Electric torsion-controlled screwdriver with an improved automatic turn-off device. 4,712,456, 12-15-87, Cl. 81-473.000.
Yuan, Ren; Xianzhi, Chen; Yuanxi, Feng; Guojiu, Li; Dake, Huang; Yongli, Zhang; and Quanzhong, Sun, to Huazhong Institute of Technology. Optimal control power system stabilizer and method using simulating state variables. 4,701,689, 10-20-87, Cl. 322-19.000.
Yuan, Thomas C.: *See*—
Virkar, Anil; and Yuan, Thomas C., 4,678,761, Cl. 501-104.000.
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Yuasa Battery Co.: *See*—
Matsui, Kazumasa; and Kunimoto, Asao, 4,661,424, Cl. 429-104.000.
Yuasa Battery Co. Ltd.: *See*—
Kagawa, Hiroshi, 4,657,830, Cl. 429-104.000.
Yuasa, Hiroo: *See*—
Takizawa, Shozo; Kobayashi, Kazuyoshi; Fukuyama, Kazuo; Tani, Masanori; Yamamoto, Shoji; Yuasa, Hiroo; Nishimori, Masayoshi; Yoshida, Hiroaki; Eto, Shinichi; Hirao, Eiji; and Goto, Masaki, 4,709,935, Cl. 280-91.000.
Yuasa, Hiroyoshi; Yasuda, Akira; and Omura, Koichi, to Matsushita Electric Works, Ltd. Visual image sensor system. 4,679,077, 7-7-87, Cl. 358-108.000.
Yuasa, Hiroyoshi; and Omura, Koichi, to Matsushita Electric Works, Ltd. Picture transmission system using secondary differential variable sampling rate coding. 4,703,348, 10-27-87, Cl. 358-133.000.
Yuasa, Hiroyoshi: *See*—
Yasuda, Akira; Akiyama, Kazuhisa; Nakao, Toshinari; and Yuasa, Hiroyoshi, 4,703,347, Cl. 358-102.000.
Yuasa, Hitoshi; and Matsuno, Mitsuo, to Nippon Oil Company, Ltd. Traction drive fluid. 4,675,459, 6-23-87, Cl. 585-21.000.
Yuasa, Katsunori: *See*—
Goto, Masao; Kimura, Haruo; Okada, Toshihiko; Yuasa, Katsunori; and Ito, Tetuzo, 4,697,708, Cl. 209-534.000.
Yuasa, Katunori: *See*—
Isobe, Minoru; Koshida, Yoshinori; and Yuasa, Katunori, 4,715,59[illegible], Cl. 271-65.000.
Yuasa, Kazuhiro, to Ricoh Company, Ltd. Electrostatic recording apparatus. 4,636,815, 1-13-87, Cl. 346-153.100.
Yuasa, Kazuhiro, to Ricoh Company, Ltd. One-component toner copier with electric field transfer. 4,637,708, 1-20-87, Cl. 355-3DD.
Yuasa, Kazuhiro, to Ricoh Company, Ltd. Ion projection recording apparatus. 4,641,955, 2-10-87, Cl. 355-14.0TR.

Yuasa, Satoshi: *See*—
Haruta, Masahiro; Kuwae, Yoko; Yuasa, Satoshi; and Miyazaki, Toshihiko, 4,711,830, Cl. 430-52.000.

Yuasa, Yasuhiro: *See*—
Shimizu, Wataru; and Yuasa, Yasuhiro, 4,651,073, Cl. 318-632.000.

Yuasa, Yasuhito: Hayashi, Kazumasa; Nakata, Koreaki; and Okuma, Akihiro, to Matsushita Electric Industrial Co., Ltd. Method for developing electrostatic image using magnetic brush and one component magnetic toner. 4,689,285, 8-25-87, Cl. 430-122.000.

Yuasa, Yoshio; Naruse, Kazuhiko; and Inaba, Masahito, to Minolta Camera Kabushiki Kaisha. Light measuring device. 4,655,576, 4-7-87, Cl. 354-415.000.

Yuasa, Yoshio; Yasumoto, Hidetoshi; Naruse, Kazuhiko; Kawagoe, Nobukazu; and Inaba, Masahito, to Minolta Camera Kabushiki kaisha. Enlarger for use in photography. 4,704,025, 11-3-87, Cl. 355-38.000.

Yuasa, Yoshio: *See*—
Naruse, Kazuhiko; and Yuasa, Yoshio, 4,637,721, Cl. 356-215.000.

Yuchi, Hirofumi: *See*—
Ikeda, Yasunari; Nakano, Hiroshi; and Yuchi, Hirofumi, 4,672,446, Cl. 358-140.000.

Yuchi, Tateo: *See*—
Miyaiuji, Motohisa; Yuchi, Tateo; and Tsuno, Riichi, 4,687,633, Cl. 420-481.000.

Yuda, Sadayuki: *See*—
Buma, Mitsuo; Yuda, Sadayuki; Sato, Masatsune, and Okada, Mitsuo, 4,689,079, Cl. 106-35.000.

Yudelson, Joseph S., to Eastman Kodak Company. Stabilization of developed electrophoregrams. 4,672,043, 6-9-87, Cl. 436-86.000.

Yudichak, Joseph R.; and Toegel, Herbert J., to ITT Corporation. Apparatus and method for providing dynamically assigned switch paths. 4,656,626, 4-7-87, Cl. 370-68.000.

Yudichak, Joseph R.: *See*—
Liu, Shao H.; and Yudichak, Joseph R., 4,653,054, Cl. 371-61.000.
Toegel, Herbert J.; Yudichak, Joseph R.; and Gilsdorf, John F., 4,639,910, Cl. 370-58.000.

Yudow, Bernard D., to United States of America, Energy. Solar solids reactor. 4,706,651, 11-17-87, Cl. 126-451.000.

Yue, On-Ching: *See*—
Eng, Kai Y.; and Yue, On-Ching, 4,652,733, Cl. 235-462.000.

Yuen, Peter S. L.; Campbell, Philip; Montin, John L.; and Ardron, Keith H., to Canada, Atomic Energy of, Limited. Method and apparatus for determining the properties of wet steam. 4,645,635, 2-24-87, Cl. 376-245.000.

Yuenian, Sun. Spring operated automatic door and window closing hinge. 4,697,302, 10-6-87, Cl. 16-52.000.

Yuergens, Kenneth C.: *See*—
Hall, David A.; and Yuergens, Kenneth C., 4,694,941, Cl. 192-3.280.

Yugami, Yoshinori: *See*—
Kajioka, Yasuo; Komine, Tomio; Kadowaki, Hitoshi; Matsuda, Shigeyoshi; Yugami, Yoshinori; Kubota, Shinya; Takahashi, Yoshio; Shimada, Hiroshi; and Kurata, Nobutaka, 4,709,899, Cl. 249-20.000.

Yuge, Shizuo; and Sakakibara, Susumu, to Minolta Camera Kabushiki Kaisha. Dry process developing apparatus. 4,676,192, 6-30-87, Cl. 118-658.000.

Yuge, Yoji: *See*—
Kawakatsu, Akira; Watanabe, Tsutomu; and Yuge, Yoji, 4,652,789, Cl. 313-112.000.

Yuge, Yooji; Ishizaki, Ariyoshi; Saito, Tokuyoshi; and Ishii, Takeshi, to Kabushiki Kaisha Toshiba; and Nippon Soda Co., Ltd. Bulb. 4,634,919, 1-6-87, Cl. 313-113.000.

Yuge, Yooji: *See*—
Kawakatsu, Akira; Yuge, Yooji; Hayama, Noriyuki; Saito, Tokuyoshi; and Maeda, Umio, 4,701,663, Cl. 313-112.000.

Yugen Kaisha Manthree Shokai: *See*—
Morishita, Seizo; and Sumoto, Tamotsu, 4,658,484, Cl. 29-2.150.

Yugen Kaisha Shinjoseisakusho: *See*—
Shinjo, Katsumi, 4,690,599, Cl. 411-180.000.

Yugen Kaisha Yamazaki Jutaku Kanri: *See*—
Yamazaki, Tomio, 4,661,800, Cl. 340-98.000.

Yugengaisha Asahi Shouji: *See*—
Tsukiji, Megumi, 4,674,470, Cl. 124-74.000.

Yuguchi, Hiroya: *See*—
Okonogi, Shigeo; Yuguchi, Hiroya; Miyazaki, Yusuke; Tanai, Sumio; and Ohta, Minoru, 4,668,520, Cl. 426-564.000.

Yuguchi, Sadao. Reinforcing bar binding device. 4,685,493, 8-11-87, Cl. 140-119.000.

Yuh, Ching-Fen, to TRW Inc. Round/flat carbide seat. 4,660,660, 4-28-87, Cl. 175-410.000.

Yuhaku, Satoru: *See*—
Nakatani, Seiichi; Yuhaku, Satoru; Okinaka, Hideyuki; Ishida, Toru; Makino, Osamu; and Kikuchi, Tatsuro, 4,714,570, Cl. 252-518.000.
Nishimura, Tsutomu; Nakatani, Seiichi; Yuhaku, Satoru; and Ishida, Toru, 4,695,403, Cl. 252-513.000.

YuHan Corporation Co., Ltd.: *See*—
Suh, Jung J.; and Hong, You H., 4,683,306, Cl. 544-33.000.

Yuhara, Akitsuna: *See*—
Yamada, Jun; Yuhara, Akitsuna; Shiba, Takashi; and Fujita, Yuji, 4,689,586, Cl. 333-151.000.

Yuhara, Yukitomo; Okojima, Sumio; and Ishikawa, Tatsuo, to Yoshida Industry Co., Ltd. Vanity case. 4,679,576, 7-14-87, Cl. 132-82.00R.

Yuhara, Yukitomo; and Shioi, Yuji, to Yoshida Industry Co., Ltd. Vanity case. 4,683,899, 8-4-87, Cl. 132-82.00R.

Yuhara, Yukitomo: *See*—
Shioi, Yuji; and Yuhara, Yukitomo, 4,696,317, Cl. 132-82.00R.

Yuhas, Drew J.; and Boggia, Joseph, to AMF Incorporated. Vibration damped sports racquet. 4,634,124, 1-6-87, Cl. 273-73.00G.

Yuhas, Ralph G.; and Birmingham, William H., to Win-Trol, Inc. Window operating apparatus. 4,653,228, 3-31-87, Cl. 49-357.000.

Yuhas, Robert J.: *See*—
Ruth, Dale G.; and Yuhas, Robert J., 4,695,677, Cl. 194-45.0TD.

Yuhashi, Yukio: *See*—
Teraoka, Masao; and Yuhashi, Yukio, 4,690,258, Cl. 192-58.00C.

Yuhasz, Kathleen M.: *See*—
Ferlauto, Robert J., Jr.; and Yuhasz, Kathleen M., 4,701,318, Cl. 424-52.000.

Yuhasz, Stephen J.: *See*—
Rowen, Michael J.; Yuhasz, Stephen J.; Buehler, David L.; Jacoby, Elliot G.; and Spira, Joel S., 4,689,547, Cl. 323-239.000.

Yui, George M. Internal hole grinding spindle. 4,646,476, 3-3-87, Cl. 51-166.0TS.

Yui, Hiroshi: *See*—
Hiratsuka, Kazuya; Sato, Yuichi; Aoki, Yoshiyasu; Yui, Hiroshi; Miyabayashi, Mitsutaka; and Itsubo, Akira, 4,702,977, Cl. 429-194.000.
Kakizaki, Tetsuji; Mizutani, Toshikazu; and Yui, Hiroshi, 4,696,765, Cl. 252-511.000.
Narumiya, Yoshikazu; Hashimoto, Yasuo; Yui, Hiroshi; and Kageyama, Yoshiteru, 4,690,778, Cl. 252-506.000.

Yui, Nobuhiko: *See*—
Ogata, Naoya; Sanui, Kohei; Yui, Nobuhiko; Nojima, Kazuhiko; Kataoka, Kazunori; Okano, Teruo; and Sakurai, Yasuhisa, 4,687,831, Cl. 528-64.000.

Yui, Yasuo; Minami, Tatsuo; and Kawamo, Kazunori, to Nissan Shatai Company, Limited. Sliding door lock arrangement. 4,662,109, 5-5-87, Cl. 49-214.000.

Yui, Yoshikiyo, to Canon Kabushiki Kaisha. Exposure apparatus. 4,713,675, 12-15-87, Cl. 355-69.000.

Yui, Yoshikiyo: *See*—
Oda, Kazuyuki; Yui, Yoshikiyo; Kataoka, Yoshiharu; and Hata, Hideo, 4,714,331, Cl. 353-122.000.

Yui, Yuhi: *See*—
Tsujimoto, Yoshiharu; Kinashi, Hiroshi; Yui, Yuhi; Akiyama, Tadashi; and Irihara, Koichi, 4,654,286, Cl. 430-97.000.

Yuille, Ronald D.: *See*—
Moody, Joseph F.; and Yuille, Ronald D., 4,671,068, Cl. 60-602.000.

Yuito, Isamu: *See*—
Nakamura, Hitoshi; Shiiki, Kasuo; Yuito, Isamu; Shiroishi, Yoshihiro; Fujiwara, Hideo; Shinagawa, Kiminari; and Iijima, Akemi, 4,636,897, Cl. 360-119.000.
Shiiki, Kazuo; Shiroishi, Yoshihiro; Yuito, Isamu; Shinagawa, Kiminari; and Fujiwara, Hideo, 4,651,248, Cl. 360-119.000.

Yuji, Kawahara: *See*—
Sademitsu, Nishihara; and Yuji, Kawahara, 4,648,718, Cl. 356-387.000.

Yuji Mihara: *See*—
Mihara, Yuji; and Ukai, Toshinao, 4,677,053, Cl. 430-576.000.

Yukawa, Akira, to NEC Corporation. Digital-to-analog converter. 4,661,802, 4-28-87, Cl. 340-347.0DA.

Yukawa, Hideki; and Horibe, Hiroyuki, to Kokusan Denki Co., Ltd. Ignition system for internal combustion engine. 4,651,706, 3-24-87, Cl. 123-651.000.

Yukawa, Joei: *See*—
Koto, Noriaki; Yukawa, Joei; and Moro, Takeo, 4,652,465, Cl. 427-216.000.

Yukawa, Kazuhiko, to Matsushita Electric Works, Ltd. Electronic pedometer with step sensor in removable insole. 4,649,552, 3-10-87, Cl. 377-24.000.

Yukawa, Kazuhiko; Tasaka, Isao; and Yamamura, Yukio, to Matsushita Electric Works, Ltd. Electronic pedometer. 4,651,446, 3-24-87, Cl. 36-132.000.

Yukawa, Kazuo: *See*—
Saito, Toshio; Yukawa, Kazuo; and Suzuki, Tomio, 4,661,845, Cl. 358-99.000.

Yukawa, Kouichi: *See*—
Araki, Mikio; Yonamine, Shigeru; and Yukawa, Kouichi, 4,702,163, Cl. 101-35.000.

Yukawa, Toshihide: *See*—
Hisamitsu, Kunio; Takemoto, Tadashi; and Yukawa, Toshihide, 4,673,744, Cl. 544-385.000.
Nakamura, Masao; Takeda, Hideo; Yukawa, Toshihide; and Kawasaki, Haruo, 4,670,568, Cl. 549-253.000.
Yokozeki, Kenzo; Majima, Eiji; Hirose, Yoshiteru; Sato, Takeru; and Yukawa, Toshihide, 4,666,838, Cl. 435-70.000.

Yukawa, Yasuaki: *See*—
Imamura, Tetsuo; and Yukawa, Yasuaki, 4,635,489, Cl. 74-7.00E.

Yuki Gosei Kogyo Co., Ltd.: *See*—
Nagai, Yoichiro; Watanabe, Hamao; and Akutsu, Yoshinori, 4,707,557, Cl. 556-430.000.
Nagai, Yoichiro; Watanabe, Hamao; and Akutsu, Yoshinori, 4,716,240, Cl. 556-430.000.

Yuki, Heimei; and Okamoto, Yoshio, to Daicel Chemical Industries, Ltd. Polymerizable, optically active polymer and process for preparing polymerizable polymer. 4,681,919, 7-21-87, Cl. 525-292.000.

Yuki, Isamu: *See*—
Hayashi, Yoshiro; Ekino, Yoshio; Yuki, Isamu; and Taguchi, Masahiro, 4,663,205, Cl. 428-36.000.

Yuki, Yoichi; Noyori, Ryoji; and Hayashi, Masahiko, to Daicel Chemical Industries, Ltd. Process for preparing triarylmethyl methacrylate. 4,666,633, 5-19-87, Cl. 260-395.000.

Yuki, Yoshikazu; Nishimura, Toyohiko; and Hiratani, Hajime, to Japan Chemical Research Co., Ltd. Process for producing highly purified HCG. 4,665,161, 5-12-87, Cl. 530-412.000.

Yuki, Yoshio; and Hara, Takafumi, to Sharp Kabushiki Kaisha. Wall member for ink liquid reservoir mounted on a carriage in an ink jet system printer. 4,658,273, 4-14-87, Cl. 346-140.00R.

Yuki, Youji: *See—*
Miyafuji, Motohisa; Nakashima, Yasuhiro; Katayama, Satoru; Matsui, Takashi; Harada, Hidekazu; and Yuki, Youji, 4,656,003, Cl. 420-473.000.

Yukihisa, Takeuchi; Yasunao, Miura; and Tsukasa, Hirayama, to Nippondenso Co., Ltd. Detector for particulate density and filter with detector for particulate density. 4,656,832, 4-14-87, Cl. 60-303.000.

Yukimoto, Kazuyoshi; Fukura, Kenichi; and Yamauchi, Nobuhiro, to Aisin Seiki Kabushiki Kaisha. Screw bar for a pantograph-type jack. 4,695,036, 9-22-87, Cl. 254-126.000.

Yukimoto, Kazuyoshi: *See—*
Masuda, Mitsuyoshi; Mori, Keiki; and Yukimoto, Kazuyoshi, 4,659,141, Cl. 296-223.000.

Yukimoto, Kougi: *See—*
Mikami, Mitsugu; Yukimoto, Kougi; and Ishii, Jun, 4,706,795, Cl. 194-317.000.

Yukimoto, Sadao: *See—*
Kawakubo, Fumio; Takanoo, Miyako; Yukimoto, Sadao; and Isayama, Katsuhiko, 4,687,818, Cl. 525-404.000.

Yukino, Shinya: *See—*
Ozawa, Kuniichi; Goto, Yasuhiro; Nakase, Hiromi; and Yukino, Shinya, 4,644,157, Cl. 250-231.0SE.

Yukitake, Kazunori: *See—*
Fushida, Akira; Matsui, Toshikazu; Hasegawa, Yuuji; Maeda, Masahiko; Tsuji, Nobuyuki; Horiuchi, Akira; and Yukitake, Kazunori, 4,652,510, Cl. 430-122.000.

Yukitomo, Kazuo: *See—*
Iwamoto, Tadashi; Ikeda, Toshiki; Yukitomo, Kazuo; Hattori, Masaichi; Arakawa, Kaneyasu; Kihira, Koichi; and Hanaki, Akira, 4,683,403, Cl. 315-83.000.

Yukumoto, Hideki: *See—*
Sakakibara, Koji; Haraguchi, Hiroshi; and Yukumoto, Hideki, 4,711,214, Cl. 123-425.000.

Yukutomo, Masashi: *See—*
Matsumura, Teruyuki; and Yukutomo, Masashi, 4,667,079, Cl. 219-69.00G.

Yumde, Yasufumi: *See—*
Kobayashi, Masaharu; Noguchi, Takaharu; Arai, Takao; Masuda, Michio; and Yumde, Yasufumi, 4,670,796, Cl. 358-310.000.

Yumen, Akira: *See—*
Ishida, Akira; Yumen, Akira; and Saito, Naotada, 4,646,144, Cl. 358-75.000.

Yumikura, Tsuneo; Ikeuchi, Masaki; Nakao, Kazushige; and Ozaki, Etichi, to Mitsubishi Denki Kabushiki Kaisha. Mass transfer heat exchanger. 4,651,819, 3-24-87, Cl. 165-115.000.

Yumlu, Salih V., to Mack Trucks, Inc. Split flow particulate filter. 4,673,423, 6-16-87, Cl. 55-319.000.

Yumoto, Hidekazu: *See—*
Ichikawa, Hideo; Nakaguchi, Mitsuharu; and Yumoto, Hidekazu, 4,669,854, Cl. 355-3.00R.

Yun, John M.: *See—*
Stipanuk, John M.; and Yun, John M., 4,714,435, Cl. 439-496.000.

Yun, Kyung W.; Jones, Othel L.; Long, Gerald M.; and Elson, John P., to Copeland Corporation. Valve assembly and compressor modulation apparatus. 4,685,489, 8-11-87, Cl. 137-543.150.

Yunan, Malak E.: *See—*
Adams, Philip E.; McGowan, Michael J.; and Yunan, Malak E., 4,637,312, Cl. 102-275.120.

Yunde, Yasufumi: *See—*
Miura, Kuniaki; Yunde, Yasufumi; Kotani, Kazunori; Fukushima, Isao; and Kano, Kenji, 4,647,960, Cl. 358-37.000.

Yundt, George B.: *See—*
Sharp, Gordon P.; Curtiss, William P.; and Yundt, George B., 4,706,553, Cl. 98-115.300.

Yung, Fernand P. Spacer for construction use. 4,655,023, 4-7-87, Cl. 52-685.000.

Yung, Kwong Y. Closable, collapsible umbrella for one-hand operation. 4,685,482, 8-11-87, Cl. 135-24.000.

Yung-Mai, Lin: *See—*
Autry, James C.; and Yung-Mai, Lin, 4,667,423, Cl. 36-102.000.

Yung, Richard C. S.: *See—*
Larsen, Larry D.; Yung, Richard C. S.; Leung, Wing K.; and Hogel, Joseph E., 4,691,794, Cl. 177-211.000.

Yung, Simon K. C., to SMC Metal Tech Co., Ltd. Contact lens cleaning apparatus. 4,697,605, 10-6-87, Cl. 134-107.000.

Yunick, Henry, to MotorTech, Inc. Fuel conditioning apparatus and method. 4,637,365, 1-20-87, Cl. 123-545.000.

Yunker, Stanley B., and Radovich, John M., to University of Oklahoma, The Board of Regents for the. Electrolytic bioreactor assembly and method. 4,703,010, 10-27-87, Cl. 435-173.000.

Yunoki, Toru, to Ulvac Service Corporation. Apparatus for controlling an infinitesimal flow rate of fluid. 4,670,138, 6-2-87, Cl. 210-141.000.

Yunoki, Toru: *See—*
Shirato, Kozo; Hiraizumi, Kazuo; Kawashima, Kazuyasu; Okuyama, Shinya; Kobayashi, Masashi; Tanaka, Minoru; Takeya, Akira; Yamamoto, Yoshio; Koyama, Yasuo; Shinohara, Satoshi; and Yunoki, Toru, 4,680,552, Cl. 324-439.000.

Yunoki, Yutaka; Kimura, Kenji; Kato, Akira; and Imamura, Tatsuo, to Olympus Optical Co., Ltd. Video tape recorder including vertical recording heads. 4,642,711, 2-10-87, Cl. 360-84.000.

Yunoki, Yutaka; and Kimura, Kenji, to Olympus Optical Co., Ltd. Video signal recording apparatus with A/D conversion. 4,651,227, 3-17-87, Cl. 358-310.000.

Yunoki, Yutaka; and Nagasaki, Tatsuo, to Olympus Optical Co., Ltd. Endoscope pickup means. 4,686,964, 8-18-87, Cl. 128-4.000.

Yunoki, Yutaka: *See—*
Imamura, Tatsuo; Yamamoto, Hiroyuki; and Yunoki, Yutaka, 4,703,380, Cl. 360-121.000.

Yunus, Mohammad: *See—*
Mostyn, Graham Y.; and Yunus, Mohammad, 4,652,808, Cl. 323-222.000.
Mostyn, Graham Y.; and Yunus, Mohammad, 4,661,764, Cl. 323-222.000.

YUP Company, Ltd.: *See—*
Yatabe, Yoshio; and Yatabe, Tadasu, 4,668,046, Cl. 350-117.000.

Yurchenco, James: *See—*
Baker, Philip G.; and Yurchenco, James, 4,702,578, Cl. 354-15.000.

Yurchenco, James R., to Metaphor Computer Systems. Multiple independent input peripherals. 4,689,761, 8-25-87, Cl. 364-708.000.

Yurczyk, Roger F.: *See—*
Glenn, Gary S.; Rajpaul, Vinod K.; and Yurczyk, Roger F., 4,681,602, Cl. 55-21.000.

Yurugi, Shigenobu: *See—*
Harada, Yoshiaki; Nakashiba, Akio; Matuura, Hiroyuki; Okino, Teizou; Fujitani, Hajime; Yamasaki, Kenichi; Doi, Yasuhumi; and Yurugi, Shigenobu, 4,699,720, Cl. 210-762.000.

Yusa, Atsushi, to Olympus Optical Co., Ltd. Method for purifying an industrial raw material gas and a purifier for use in said method and a method of manufacturing said purifier. 4,683,125, 7-28-87, Cl. 423-219.000.

Yusa, Atsushi; Nishizawa, Jun-ichi; Suzuki, Sohbe; and Tamamushi, Takashige, to Olympus Optical Co., Ltd. Solid state image sensor. 4,686,555, 8-11-87, Cl. 357-30.000.

Yusa, Hideo: *See—*
Matsuda, Masami; Aoyama, Yoshiyuki; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; Tamata, Shin; and Horiuchi, Susumu, 4,654,172, Cl. 252-629.000.
Uetake, Naohito; Kawamura, Fumio; Yusa, Hideo; Kikuchi, Makoto; and Tamata, Shin, 4,648,990, Cl. 252-628.000.

Yusa, Tsunero: *See—*
Shibuya, Hisao; and Yusa, Tsunero, 4,697,321, Cl. 29-157.3R.

Yushiro Chemical Industry Co., Ltd.: *See—*
Kanda, Noboru; Yokoyama, Kenzou; Aoki, Ken-ichi; Akita, Shinji; Hatanaka, Masayuki; and Oda, Tatsuharu, 4,711,733, Cl. 252-29.000.

Yutaka Yamada: *See—*
Yamada, Yutaka, 4,693,269, Cl. 137-512.100.

Yutani, Takashi: *See—*
Asaeda, Takeaki; Nakamura, Toru; and Yutani, Takashi, 4,639,850, Cl. 363-58.000.

Yuter, Seymour C. Combined telephone-table system. 4,694,486, 9-15-87, Cl. 379-110.000.

Yuto, Kazuaki: *See—*
Takiguchi, Eiji; Yuto, Kazuaki; and Oniki, Toru, 4,640,952, Cl. 524-296.000.

Yuto, Masao: *See—*
Yamanishi, Toru; Kameo, Yuji; Yoshida, Masaaki; Yuto, Masao; and Tanaka, Chihaya, 4,655,545, Cl. 350-96.340.

Yuto, Masso; and Suzuki, Yoichi, to Sumitomo Electric Industries, Ltd. Foamed plastic insulated wire and method for producing same. 4,683,166, 7-28-87, Cl. 428-314.800.

Yuuki, Kenji: *See—*
Akashi, Syunji; and Yuuki, Kenji, 4,667,377, Cl. 24-436.000.

Yuyama, Hiroshi, to Mitsubishi Denki Kabushiki Kaisha. Prime mover driven air-conditioning and hot-water supplying system. 4,697,434, 10-6-87, Cl. 62-238.700.

Yuyama, Ichiro; Yamada, Mitsuho; Isono, Haruo; and Yasuda, Minoru, to Nippon Hoso Kyokai. Stereoscopic television picture transmission system. 4,704,627, 11-3-87, Cl. 358-88.000.

Yuyama, Masahiro: *See—*
Kato, Yasuyuki; Yuyama, Masahiro; Moritani, Masahiko; and Iijima, Susumu, 4,661,571, Cl. 526-216.000.
Kato, Yasuyuki; Yuyama, Masahiro; Moritani, Masahiko; and Futagami, Mikio, 4,699,964, Cl. 526-193.000.

Yuyama, Masami: *See—*
Ninomiya, Masao; Takashima, Susumu; Fukushima, Kazunasa; Yuyama, Masami; and Kurosawa, Kazuyuki, 4,712,243, Cl. 381-43.000.

Yuyama, Yukihiro; Motosugi, Takanori; Honda, Yasuhiro; and Ichikawa, Akira, to Ricoh Company, Ltd. Thermosensitive recording adhesive sheet. 4,711,874, 12-8-87, Cl. 503-206.000.

Yuzaki, Yoshinori: *See—*
Oe, Tsutomu; Kimura, Shigeaki; Yuzaki, Yoshinori; and Oniki, Tadao, 4,640,453, Cl. 228-17.700.

Yuzawa, Haruo; Nishiyama, Masafumi; Nakamura, Katsuyuki; and Ishigami, Kazuhiro, to Nissan Motor Company, Limited. Crank angle detecting system for engines. 4,656,993, 4-14-87, Cl. 123-643.000.

Yuzawa, Keiji: *See—*
Fukaya, Hideshi; Hoshii, Toshifumi; and Yuzawa, Keiji, 4,633,751, Cl. 84-1.030.

Yuzuriha, Teruaki: *See—*
Takada, Masahiro; Yuzuriha, Teruaki; Katayama, Kouichi; and Sunamoto, Junzo, 4,636,381, Cl. 424-38.000.

Yuzuriha, Yasuhiro: *See*—
Hitomi, Mitsuo; Hinatase, Fumio; and Yuzuriha, Yasuhiro, 4,671,217, Cl. 123-52.0MB.
Hitomi, Mitsuo; Hinatase, Fumio; and Yuzuriha, Yasuhiro, 4,679,531, Cl. 123-52.0MB.

Yves, Henry; Nicollet, Andre; and Villard, Michel, to Thomson - CSF. Process of manufactoring an indium antimonide photodiode. 4,696,094, 9-29-87, Cl. 437-23.000.

Z-Lock Company, Inc.: *See*—
Derman, Jay S., 4,640,106, Cl. 70-14.000.

Z-Lock Corporation: *See*—
Derman, Jay S., 4,655,057, Cl. 70-14.000.

Z-Lyften Produktion AB: *See*—
Lenfeldt, Lars, 4,687,082, Cl. 192-55.000.

Z-Tech Enterprises Inc.: *See*—
Moulinie, Raoul M.; and Gagne, Guy, 4,699,541, Cl. 404-69.000.

Zabara, Jacob. Neurocybernetic prosthesis. 4,702,254, 10-27-87, Cl. 128-421.000.

Zabarsky, Alan P.; Steiger, Suzette D.; Staiano, Edward F.; and Sandvos, Jerry L., to Motorola, Inc. Two way personal message system with extended coverage. 4,644,351, 2-17-87, Cl. 340-825.440.

Zabel, Leland M.: *See*—
Geary, William C.; and Zabel, Leland M., 4,664,071, Cl. 123-41.100.

Zabel, Robert. Septic tank filters. 4,710,295, 12-1-87, Cl. 210-336.000.

Zabinski, Siegfried: *See*—
Kupper, Gerd; Fenzl, Horst; and Zabinski, Siegfried, 4,655,730, Cl. 474-53.000.
Kupper, Gerd; Zabinski, Siegfried; and Vossen, Burghardt, 4,659,097, Cl. 280-281.00R.

Zabler, Erich, to Robert Bosch GmbH. Magnetic differential position sensor. 4,649,340, 3-10-87, Cl. 324-207.000.

Zablocki, Richard J.: *See*—
Symes, Randall A.; and Zablocki, Richard J., 4,664,239, Cl. 192-0.084.

Zaborowski, Jerome R. Method and apparatus for splitting leather using a laser. 4,650,955, 3-17-87, Cl. 219-121.0LG.

Zaborowski, Thaddeus, to Schawbel Corporation, The. Portable heating appliance. 4,699,123, 10-13-87, Cl. 126-409.000.

Zabotto, Arlette; Griat, Jacqueline; and Bracco, Umberto, to Societe Anonyme dite: L'Oreal. Aqueous or anhydrous cosmetic preparation containing a fatty phase consisting essentially of karite oil. 4,661,343, 4-28-87, Cl. 424-59.000.

Zabotto, Arlette; and Contamin, Jean-Claude, to Soc ete Anonyme dite: L'Oreal. Anhydrous skin cleansing composition containing an oil phase, an emulsifying agent and particulate water soluble polymeric abrasive particles. 4,673,526, 6-16-87, Cl. 252-174.160.

Zabotto, Arlette; and Contamin, Jean-Claude, to L'Oreal. Cosmetic composition for gentle cleansing, especially for removing eye makeup. 4,715,982, 12-29-87, Cl. 252-174.170.

Zabotto nee Arribau, Arlette; Contamin, Jean-Claude; Zaffran, Christian; and Koulbanis, Constantin, to L'Oreal. Composition for cleaning the skin. 4,637,933, 1-20-87, Cl. 424-131.000.

Zabrocki, Karl: *See*—
Eichenauer, Herbert; Zabrocki, Karl; Doring, Joachim; Ott, Karl-Heinz; and Bottenbruch, Ludwig, 4,668,737, Cl. 525-73.000.

Zabrodski, William J.: *See*—
Nichols, Richard W.; Zabrodski, William J.; and Mitra, Abhijit, 4,705,902, Cl. 568-810.000.

Zabrodsky, John, III: *See*—
Blain, William A.; and Zabrodsky, John, III, 4,691,625, Cl. 99-348.000.

Zabrodsky, Vladimir: *See*—
Brychta, Ondrej; and Zabrodsky, Vladimir, 4,681,100, Cl. 128-204.250.

Zabrovsky, Stanislav G.: *See*—
Baraban, Viktor P.; Zabrovsky, Stanislav G.; Zvyagin, Albert F.; Lazarev, Grigory B.; and Tars, Yaak A., 4,685,045, Cl. 363-68.000.
Baraban, Viktor P.; Zabrovsky, Stanislav G.; Zvyagin, Albert F.; and Lazarev, Grigory B., 4,700,288, Cl. 363-138.000.

Zabrowsky, Mark: *See*—
Gordon, Tim H.; and Zabrowsky, Mark, 4,669,476, Cl. 128-399.000.

Zabunova, Orhideya B.; Zvetanov, Hristo B.; Petrova, Lyudmila V.; Ognyanova, Vaska A.; Nikolova, Milka P.; Tanev, Georgi L.; and Ivanova, Nedyalka S., to T P O "Pharmachim". Esters of O(2,6-dichlorophenylamino) phenylacetic acid. 4,704,468, 11-3-87, Cl. 560-43.000.

Zabunova, Orhideya B.: *See*—
Ivanov, Chavdar B.; Mondeshka, Donka M.; Berova, Nikolina D.; Rakovska, Rossitza S.; Panova, Yordanka T.; Markov, Marko T.; Ovcharov, Radi G.; Usunov, Petko D.; and Zabunova, Orhideya B., 4,678,853, Cl. 546-146.000.
Ivanova, Nedyalka S.; Nikolova, Milka P.; Ivanov, Chavdar B.; Dryanska, Margarita D.; and Zabunova, Orhideya B., 4,666,918, Cl. 514-307.000.

Zaccari, Neil J.; and Viscovsky, Nick J., to International Paper Company. Insertion probe system for continuous measurement of pH level in process lines. 4,664,772, 5-12-87, Cl. 204-400.000.

Zaccaron, Luigi. Bucket conveyor with a rotatable boom. 4,702,366, 10-27-87, Cl. 198-509.000.

Zaccheo, Theodore N.: *See*—
Cleary, Robert A., Jr.; and Zaccheo, Theodore N., 4,676,859, Cl. 156-361.000.

Zacchio, Joseph M., to Transamerica Delaval, Inc. Microwave tank-contents level measuring assembly with a phase controlled lens. 4,670,754, 6-2-87, Cl. 342-124.000.

Zaccone, Samuel G. Engine sump draining device. 4,714,138, 12-22-87, Cl. 184-1.500.

Zach, Joachim: *See*—
Rose, Harald; Zach, Joachim; and Lischke, Burkhard, 4,714,833, Cl. 250-397.000.

Zach, Reuven D.: *See*—
Nelson, Robert S.; and Zach, Reuven D., 4,649,275, Cl. 250-358.100.

Zacharczuk, Walter. Dashboard cover. 4,708,388, 11-24-87, Cl. 296-97.00B.

Zachariades, Anagnostis E. Ultra-high-molecular-weight polyethylene products including vascular prosthesis devices and methods relating thereto and employing pseudo-gel states. 4,655,769, 4-7-87, Cl. 623-1.000.

Zachariadis, Robert G., to Mobil Oil Corporation. Method and apparatus for selectively reinforcing detected seismic waves. 4,644,508, 2-17-87, Cl. 367-24.000.

Zacharias, Ellis M., to Nusonics, Inc. High pressure transducer. 4,649,754, 3-17-87, Cl. 73-861.180.

Zacharias, Ellis M. Method of measuring the amount of water flowing in a crude oil pipeline. 4,656,869, 4-14-87, Cl. 73-597.000.

Zacharias, Ernst, to Matth. Hohner AG. Mouth organ. 4,704,938, 11-10-87, Cl. 84-377.000.

Zachariasen, Janine M. Safety door unit and rotation guide and support device for door. 4,697,385, 10-6-87, Cl. 49-141.000.

Zacharin, Alexey T. Scatterable ram air decelerator. 4,696,443, 9-29-87, Cl. 244-113.000.

Zacharski, Bogdan W.; and Starkiewicz, Piotr H., to Instytut Psychoneurologiczny. Averaging method for periodic strays elimination and a counting circuit for evoked responses measuring set-up for applying the method. 4,665,499, 5-12-87, Cl. 364-575.000.

Zachary, Richard E., to Dow Chemical Company, The. Sight tube assembly and sensing instrument for controlling a gas turbine. 4,648,711, 3-10-87, Cl. 356-44.000.

Zachrei, Jurgen; Koch, Hans-Georg; Zachrei, Jurgen; and Buetergerds, Helmut, to Rittal-Werk Rudolf Loh GmbH & Co. KG. Switch cabinet with mounting board. 4,689,722, 8-25-87, Cl. 361-391.000.

Zachrei, Jurgen: *See*—
Debus, Jurgen; Koch, Hans-Georg; Zachrei, Jurgen; and Butergerds, Helmut, 4,643,319, Cl. 211-189.000.
Debus, Jurgen; Zachrei, Jurgen; and Butergerds, Helmut, 4,650,262, Cl. 312-257.0SM.
Zachrei, Jurgen; Koch, Hans-Georg; Zachrei, Jurgen; and Buetergerds, Helmut, 4,689,722, Cl. 361-391.000.

Zacky, Ralf G.; and Alexander, Gordon L., to Aspects, Inc. Extruded nosing for a furniture pedestal or the like. 4,657,319, 4-14-87, Cl. 312-333.000.

Zacuto, Philip: *See*—
Ben-Shmuel, Dan; and Zacuto, Philip, 4,651,923, Cl. 237-53.000.

Zado, Frank M., to American Telephone and Telegraph Company, AT&T Bell Laboratories. Water soluble condensation soldering flux. 4,701,224, 10-20-87, Cl. 148-23.000.

Zadok, Ori: *See*—
Yahalom, Joseph; and Zadok, Ori, 4,652,348, Cl. 204-40.000.

Zador, Eugene; Kaczmarek, Wesley R.; and Ravipati, Sitaramaiah, to Norton Company. Coated abrasives with rapidly curable adhesives and controllable curvature. 4,642,126, 2-10-87, Cl. 51-295.000.

Zador, Eugene: *See*—
Kaczmarek, Wesley R.; Zador, Eugene; and Ravipati, Sitaramaiah, 4,644,703, Cl. 51-401.000.

Zadworny, Francois: *See*—
Delaunay, Marc; Gualandris, Rene; Geller, Richard; Jacquot, Claude; Ludwig, Paul; Mathonnet, Jean-Marc; Rocco, Jean-Claude; Sermet, Pierre; Zadworny, Francois; and Bourg, Francois, 4,638,216, Cl. 315-111.810.

Zaehner, Paul: *See*—
Kaempf, Karl; Zaehner, Paul; and Richter, Wolfgang, 4,715,237, Cl. 73-864.620.

Zaehringer, Edmund; Baker, Peotr; and Zettel, Rolf, to ITT Industries, Inc. Digital FM detector for digitized FM signals. 4,696,018, 9-22-87, Cl. 375-82.000.

Zaffaroni, Alejandro: *See*—
Moore, Kevin W.; and Zaffaroni, Alejandro, 4,642,334, Cl. 530-388.000.

Zaffran, Christian: *See*—
Zabotto nee Arribau, Arlette; Contamin, Jean-Claude; Zaffran, Christian; and Koulbanis, Constantin, 4,637,933, Cl. 424-131.000.

Zafiroglu, Dimitri P., to Du Pont de Nemours, E. I., and Company. Stitched polyethylene plexifilamentary sheet. 4,704,321, 11-3-87, Cl. 428-230.000.

Zafiropoulo, Arthur W.: *See*—
Maher, Joseph A.; Vowles, E. John; Napoli, Joseph D.; Zafiropoulo, Arthur W.; and Miller, Mark W., 4,715,921, Cl. 156-345.000.

Zafred, Paolo R.; Veronesi, Luciano; and Maurer, Robert J., to Westinghouse Electric Corp. End effector apparatus for positioning a steam generator heat exchanger tube plugging tool. 4,672,741, 6-16-87, Cl. 29-726.000.

Zag, Heinz; Steiner, Karl; Mullner, Josef; and Flamig, Hans, to J. M. Voith GmbH. Piston-cylinder arrangement of polygonal cross-section. 4,651,628, 3-24-87, Cl. 92-165.0PR.

Zagar, Gregory J.; Ross, Thomas A.; and Lowry, Billy C., to United States of America, Air Force. Fiber optic cable storage device. 4,657,140, 4-14-87, Cl. 206-397.000.

Zagar, Irvin F.; and Choquette, Henry T., to A. R. Wilfley and Sons, Inc. Multi-element centrifugal pump impellers with protective cover-

ing against corrosion and/or abrasion. 4,634,344, 1-6-87, Cl. 416-175.000.
Zagata, Robert J.: *See*—
Suresh, Dev D.; Zagata, Robert J.; Friedrich, Maria S.; and Seely, Michael J., 4,659,689, Cl. 502-311.000.
Zaghloul, Amir I.: *See*—
Geller, Bernard D.; and Zaghloul, Amir I., 4,636,753, Cl. 333-26.000.
Zaglin, Lawrence C.: *See*—
Fetko, Paul; and Zaglin, Lawrence C., 4,639,102, Cl. 350-626.000.
Zago, Giovanni; and Prataviera, Giovanni. Cleaner cartridge, in particular for cleaning audio and video tape recorders and players. 4,685,015, 8-4-87, Cl. 360-128.000.
Zago, Giovanni: *See*—
Zanello, Gastone; Zago, Giovanni; and Prataviera, Giovanni, 4,635,649, Cl. 131-237.000.
Zagon, Ian S.: *See*—
McLaughlin, Patricia J.; and Zagon, Ian S., 4,689,332, Cl. 514-282.000.
Zagyvai, Istvan; Gal, Andras; Merai, Jozsef; and Szamosi, Daniel, to "Licencia" Talalmanyokat Ertekesito Es Innovacios Kulkereskedelmi Vallalat. Process for dewatering municipal and other sewage sludges. 4,675,114, 6-23-87, Cl. 210-666.000.
Zahavi, Joseph: *See*—
Halliwell, Michael J.; and Zahavi, Joseph, 4,681,774, Cl. 427-53.100.
Halliwell, Michael J.; and Zahavi, Joseph, 4,686,114, Cl. 427-53.100.
Zahedi, Karim: *See*—
Alexander, Jeffrey; and Zahedi, Karim, 4,668,489, Cl. 423-240.000.
Zahir, Abdul-Cader: *See*—
Lehmann, Hans; and Zahir, Abdul-Cader, 4,694,096, Cl. 558-251.000.
Zahir, Sheik Abdul-Cader: *See*—
Monnier, Charles E.; and Zahir, Sheik Abdu -Cader, 4,677,170, Cl. 525-539.000.
Zahl, Josef: *See*—
Hollerweger, Heinz, Kuipers, Geert; Steiner, Peter; and Zahl, Josef, 4,652,011, Cl. 280-771.000.
Zahlaus, Alfred, to Alfa-Laval Cheese Systems Limited. Processing of curd. 4,682,538, 7-28-87, Cl. 99-453.000.
Zahlaus, Helmut. Process for the bending of rod-like materials. 4,702,097, 10-27-87, Cl. 72-306.000.
Zahler, Jonas: *See*—
Frass, Michael; Frenzer, Reinhard; and Zahler, Jonas, 4,688,568, Cl. 128-207.150.
Zahler, Robert; Breuer, Hermann; and Jacobs, Glenn A., to E. R. Squibb & Sons, Inc. 3-acylamino-2-oxo-1-azetidinesulfonic acids. 4,647,660, 3-3-87, Cl. 540-355.000.
Zahler, Robert: *See*—
Sundeen, Joseph E.; Koster, William H.; and Zahler, Robert, 4,638,060, Cl. 540-203.000.
Sundeen, Joseph E.; Koster, William H.; and Zahler, Robert, 4,680,388, Cl. 540-203.000.
Zahlit, Wayne A.: *See*—
Heisner, Douglas L.; Zahlit, Wayne A.; and Lickus, Leonard J., 4,653,665, Cl. 221-11.000.
Zahm, Donald E.; and Strickler, Gary R., to Dow Chemical Company, The. Power proportioning controller for solid state relays. 4,713,601, 12-15-87, Cl. 323-322.000.
Zahn, Eric H. Non-floating technique-male. 4,634,380, 1-6-87, Cl. 433-181.000.
Zahn, Klaus: *See*—
Obel, Werner; and Zahn, Klaus, 4,709,941, Cl. 280-461.00A.
Zahn, Ulrich: *See*—
Diessner, Eberhard; and Zahn, Ulrich, 4,697,621, Cl. 141-1.000.
Zahn, Werner, to Deere & Company. Remote actuating mechanism. 4,713,981, 12-22-87, Cl. 74-479.000.
Zahn, Wolfgang; Findeis, Gunter; and Biedermann, Ernst, to Agfa-Gevaert Aktiengesellschaft. Photographic copier. 4,647,187, 3-3-87, Cl. 355-21.000.
Zahn, Wolfgang: *See*—
Abthoff, Joerg; Schuster, Hans D.; Langer, Hans J.; Zahn, Wolfgang; and Ebinger, Gunther, 4,691,562, Cl. 73-118.100.
Zahner, John C.: *See*—
Graven, Richard G.; and Zahner, John C., 4,681,674, Cl. 208-59.000.
Owen, Hartley; and Zahner, John C., 4,675,461, Cl. 585-330.000.
Zahnraderfabrik Renk AG: *See*—
Kirstein, Gerhard, 4,653,003, Cl. 364-424.000.
Kirstein, Gerhard, 4,661,772, Cl. 324-158.00R.
Peter, Rudolf; Jahnel, Ernst; and Kunz, Hans-Peter, 4,690,261, Cl. 192-87.130.
Zaunberger, Franz-Xaver; and Kugler, Artur, 4,674,350, Cl. 74-438.000.
Zahnradfabrik Friedrichshafen AG: *See*—
Achberger, Gottfried; and Angele, Eugen, 4,666,023, Cl. 192-4.00A.
Ehrlinger, Friedrich; Goeft, Manfred; and Goller, Helmut, 4,667,527, Cl. 74-411.500.
Ehrlinger, Friedrich; and Mann, Egon, 4,667,536, Cl. 74-720.000.
Ehrlinger, Friedrich; and Sailer, Hubert, 4,671,377, Cl. 180-249.000.
Ehrlinger, Friedrich J.; Muller, Franz; Simon, Herbert; and Sailer, Hubert, 4,685,343, Cl. 74-331.000.
Fassbender, Rolf, 4,705,129, Cl. 180-132.000.
Gottfried, Achberger, 4,691,585, Cl. 74-473.00R.
Holtermann, Otto; Torbusch, Klaus; and Bieber, Gerold, 4,685,548, Cl. 192-0.080.
Johann, Merz; and Gunther, Seidl, 4,715,793, Cl. 417-300.000.
Lang, Armin; and Knodler, Helmut, 4,699,231, Cl. 180-148.000.
Mann, Egon; and Bach, Hans-Peter, 4,651,526, Cl. 60-456.000.
Merz, Johann, 4,676,333, Cl. 180-132.000.
Merz, Johann, 4,709,666, Cl. 123-41.120.
Nembach, Siegfried, 4,667,763, Cl. 180-243.000.
Osterloff, Kurt; and Fuhrer, Gerd, 4,687,081, Cl. 192-53.00F.
Rogner, Horst; Schacherer, Roland; and Bieber, Gerold, 4,633,967, Cl. 192-0.092.
Sailer, Hubert; Dietenberger, Josef; and Ehrlinger, Friedrich J., 4,667,798, Cl. 192-70.120.
Schuster, Max, 4,711,332, Cl. 192-48.920.
Seidl, Gunther, 4,701,111, Cl. 417-300.000.
Wallis, Kurt; Dangelmaier, Roland; Betz, Ansgar; and Schmid, Heinrich, 4,646,554, Cl. 72-406.000.
Zahoransky, Anton: *See*—
Steinebrunner, Walter, 4,647,113, Cl. 300-21.000.
Zahr, George E.: *See*—
Logullo, Francis M., Sr.; Wu, Yun-Tai; and Zahr, George E., 4,678,821, Cl. 523-205.000.
Zahringer, H. David: *See*—
Kohls, Mitchell L.; Smith, Loren G.; and Zahringer, H. David, 4,706,821, Cl. 211-593.000.
Zahuranec, Emery J.; and Musil, James C., to Crawford Fitting Co. Deburring tool. 4,678,380, 7-7-87, Cl. 408-211.000.
Zai, Zhongqing: *See*—
Yu, Hongchang; Yang, Zhen; Wang, Chaodong; and Zai, Zhongqing, 4,643,741, Cl. 51-295.000.
Zaid, Najib H. Dispersed oil soluble corrosion inhibitor and water soluble phosphonate scale inhibitor composition. 4,713,184, 12-15-87, Cl. 252-8.552.
Zaidan Hojin Biseibutsu Kagaku Kenkyu Kai: *See*—
Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki, 4,634,688, Cl. 514-41.000.
Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Iinuma, Hironobu; Ikeda, Daishiro; Nakamura, Teruya; and Fujii, Aki, 4,658,058, Cl. 564-159.000.
Umezawa, Hamao; Umezawa, Sumio; Tsuchiya, Tsutomu; and Takahashi, Yoshiaki, 4,661,474, Cl. 514-41.000.
Umezawa, Hamao; Takeuchi, Tomio; Aoyagi, Takaaki; and Ohuchi, Shokichi, 4,661,495, Cl. 514-275.000.
Umezawa, Hamao; Aoyagi, Takaaki; Takeuchi, Tomio; Hamada, Masa; and Ishizuka, Masaaki, 4,663,342, Cl. 514-423.000.
Umezawa, Hamao; Takeuchi, Tomio; Nagatsu, Toshiharu; Hamada, Masa; Iwadare, Shuichi; Matsumoto, Ikuo; and Morishima, Hajime, 4,699,879, Cl. 435-116.000.
Umezawa, Hamao; Suzuki, Shintaro; Ohkuma, Takaaki; Sato, Fumihiro; and Nakamura, Teruya, 4,710,517, Cl. 514-616.000.
Umezawa, Hamao; Takeuchi, Tomio; Kondo, Shinichi; Tanaka, Wataru; Takita, Tomohisa; Nishimura, Yoshio; and Yoshikawa, Hiroshi, 4,716,221, Cl. 536-17.200.
Zaidan Hojin Handotai Kenkyu Shinkokai: *See*—
Nishizawa, Jun-ichi, 4,668,306, Cl. 148-1.500.
Nishizawa, Jun-ichi, 4,692,194, Cl. 437-120.000.
Zaidan Hojin Sekitan Gijutsu Kenkyusho: *See*—
Sato, Koji; Kuroda, Hiroshi; Yamada, Ryuji; and Serino, Mamoru, 4,715,657, Cl. 299-1.000.
Zaiden Hojin Shokuhin Sangyo Senta: *See*—
Ohashi, Minoru; Arakawa, Nobuhiko; Asahara, Tomoko; and Sakamoto, Shuichi, 4,650,752, Cl. 435-15.000.
Zaima, Kazuhito: *See*—
Gion, Hidenori; Yoda, Takumi; Kirita, Yasuzo; Zaima, Kazuhito; and Kurata, Noriyuki, 4,715,849, Cl. 604-52.000.
Zaitseva, Svetlana I.: *See*—
Ovchinnikov, Alexandr A.; Dudin, Vladimir P.; Konov, Vyacheslav V.; Khlybov, Vyacheslav I.; Rapoport, Jury M.; Gorbunov, Boris N.; Makarova, Evgenia S.; Davitulian,, Valentin V.; and Zaitseva, Svetlana I., 4,642,354, Cl. 548-473.000.
Zaizen, Takashi: *See*—
Sakamoto, Setsu; Nakagawa, Yasuhiro; Yamauchi, Isamu; Zaizen, Takashi; Suzuki, Katsumi; Shimamoto, Susumu; and Nakajima, Hideo, 4,675,156, Cl. 420-34.000.
Zajac, Jan: *See*—
Blaskovits, Pavol; Lesnak, Stefan; Martisik, Alojz; Zajac, Jan; Slavkovsky, Jan; Turiansky, Ladislav; and Levius, Rudo, 4,707,581, Cl. 219-73.110.
Zajac, Patricia L.: *See*—
Elfman, Brian P.; and Zajac, Patricia L., 4,678,057, Cl. 180-272.00.
Zajac, Rose. Electrical cable assembly apparatus and metho, 4,662,408, 5-5-87, Cl. 140-92.100.
Zajac, William V., Jr.; Kautz, Henry G.; Kautz, David J.; Bosse, Arthur J.; and Cohen, Sidney, to Greatbatch Enterprises, I. Method and apparatus for neutralizing reactive material such, batteries. 4,637,928, 1-20-87, Cl. 423-659.000.
Zajc, Tomislav: *See*—
Popovic, Radivoje; Baltes, Heinrich P.; and Zajc, Tomisl, 4,677,380, Cl. 324-252.000.
Zajer nee Balazs, Maria: *See*—
Keve, Tibor; Zsadon, Bela; Fekete, Gyorgy; Galambos, Jan, Barta nee Bukovecz, Margit; Szporny, Laszlo ; Forgacs, L, Kiraly, Arpad; Soos, Gyongyver; Kiss, Bela; and Zajer Balazs, Maria, 4,680,397, Cl. 546-51.000.

Zajic, Bohuslav: *See*—
Krejcir, Oldrich; Zajic, Bohuslav; and Saroun, Pavel, 4,706,923, Cl. 248-638.000.

Zajic, James E.; and Gerson, Donald F., to Canadian Patents and Development Limited-Societe Canadienne des Brevets et d'Exploitation Limitee. Hydrocarbon extraction agents and microbiological processes for their production. 4,640,767, 2-3-87, Cl. 208-390.000.

Zajicek, Ernst: *See*—
Ebeling, Joachim; Friedrich, Peter; Jekat, Herbert; Lugscheider, Walter; Riegler, Ernst; Zajicek, Ernst; Achleitner, Walter; and Jarema, Ferdinand, 4,644,557, Cl. 373-22.000.
Riegler, Ernst; Zajicek, Ernst; and Muhlbauer, Johann, 4,643,404, Cl. 266-240.000.

Zak, Chet, to Post Machinery, Inc. Trailing panel folder. 4,715,846, 12-29-87, Cl. 493-10.000.

Zak, Deborah K. Travel case with screw-in containers. 4,690,271, 9-1-87, Cl. 200-1.700.

Zakai, Avraham; and Shfaram, Adiel, to Dan Mamtirim. Irrigation leakage prevention device. 4,702,280, 10-27-87, Cl. 137-853.000.

Zakary, Paul D.: *See*—
Stillie, Donald G.; and Zakary, Paul D., 4,693,530, Cl. 439-67.000.

Zaker, Ronald C.: *See*—
Akiyama, Steven R.; Zaker, Ronald C.; and Shoup, Curtis C., 4,685,037, Cl. 362-276.000.

Zakharin, Greg: *See*—
Blackford, William L.; and Zakharin, Greg, 4,693,732, Cl. 55-112.000.

Zakhryamin, Anatoly D.: *See*—
Glushko, Mikhail F.; Skalatsky, Viktor K.; and Zakhryamin, Anatoly D., 4,641,492, Cl. 57-9.000.

Zaklady Urzadzen Chemicznych Metalchem: *See*—
Bezzegh, Denes; Magyar, Karoly; Kelemen, Jozsef; Zalai, Gabor; Mandi, Attila; and Egri, Janos, 4,680,315, Cl. 514-738.000.

Zald, Roberta L.; Adams, Stanley L.; and Welch, David P., to Procter & Gamble Company, The. Web unwind-splicer apparatus. 4,676,447, 6-30-87, Cl. 242-58.400.

Zald, Roberta L.: *See*—
Hansen, Robert E., Jr.; Murray, James R.; and Zald, Roberta L., 4,679,297, Cl. 29-568.000.

Zalesak, Jon, to American Toy & Furniture Co., Inc. Inexpensive, knock-down furniture assembled with mating, molded, plastic shells for corners and elbows. 4,702,638, 10-27-87, Cl. 403-403.000.

Zaleski, James V. Apparatus for testing auto electronics systems. 4,694,408, 9-15-87, Cl. 364-551.000.

Zaleski, Peter L.; and Gratt, Stanley H., to Superior Graphite Co. Railroad track lubricant. 4,634,545, 1-6-87, Cl. 252-29.000.

Zalkow, Leon H.: *See*—
Haugwitz, Rudiger D.; Narayanan, Venkatachala L.; Zalkow, Leon H.; Deutsch, Howard M.; and Gelbaum, Leslie, 4,670,461, Cl. 514-410.000.

Zall, Robert R.: *See*—
Chen, Hung-Chang; and Zall, Robert R., 4,677,069, Cl. 435-226.000.

Zalman, Zaharia. Foldable framework and portable objects having such a framework. 4,685,161, 8-11-87, Cl. 5-82.00R.

Zalmon, Seev W.; Engel, Shlomo; and Eyal, Joseph, to State of Israel, Ministry of Defence, Israel Military Industries, The. Projectile stabilization system. 4,641,802, 2-10-87, Cl. 244-3.280.

Zaluda, Jan: *See*—
Wright, Herschel E.; and Zaluda, Jan, 4,647,919, Cl. 340-608.000.

Zamacola, Eduardo I., to Laurona Armas, S.A. Selector device for firearms. 4,642,927, 2-17-87, Cl. 42-42.010.

Zambelli, Paolo, to Fini Elettrocostruzioni Meccaniche, S.p.A. Valve, particularly for air compressor. 4,708,606, 11-24-87, Cl. 417-559.000.

Zambias, Robert A.: *See*—
Chang, Michael N.; Jensen, Norman P.; Hammond, Milton L.; Zambias, Robert A.; McDonald, John; and Rupprecht, Kathleen M., 4,686,235, Cl. 514-520.000.

Zambon S.p.A.: *See*—
Chiarino, Dario; Carenzi, Angelo; Della Bella, Davide; and Fantucci, Mario, 4,638,003, Cl. 514-255.000.
Gazzaniga, Annibale; Gianesello, Valter; Stroppolo, Federico; and Vigano', Luigi, 4,689,218, Cl. 424-43.000.
Giordano, Claudio; Uggeri, Fulvio; and Minisci, Francesco, 4,642,376, Cl. 562-466.000.
Giordano, Claudio; Castaldi, Graziano; Uggeri, Fulvio; and Cavicchioli, Silvia, 4,697,036, Cl. 562-418.000.

Zamboni, Richard F., to Frank J. Zamboni & Co. Inc. Ice resurfacing machine blade holder. 4,705,320, 11-10-87, Cl. 29-24.000.

Zamboni, Robert: *See*—
Young, Robert N.; and Zamboni, Robert, 4,661,499, Cl. 514-311.000.

Zambory, Tyler T.: *See*—
Graham, Ralph E.; and Zambory, Tyler T., 4,670,919, Cl. 4-541.000.

Zambri, Patrick M.: *See*—
Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., 4,649,037, Cl. 423-338.000.
Marsh, Gary B.; Fanelli, Anthony J.; Armor, John N.; and Zambri, Patrick M., 4,713,233, Cl. 423-608.000.

Zambrow, John L.: *See*—
Dockus, Kostas F.; and Zambrow, John L., 4,701,127, Cl. 432-242.000.

Zamir, Yaakov: *See*—
Weintraub, David; and Zamir, Yaakov, 4,635,638, Cl. 128-340.000.

Zammarchi, Gino: *See*—
Lombard, Claude; Brisset, Jean-Paul; Catier, Gerard; Marais, Jean-Luc; and Zammarchi, Gino, 4,682,104, Cl. 324-208.000.

Zamora, Pedro C., to Sociedad Anonima de Industrias Plasticas (S.A.I.P.). Coupling device with hinged retaining catches. 4,666,192, 5-19-87, Cl. 285-322.000.

Zamore, John A. L.: *See*—
Gidlund, Per A. L.; and Zamore, John A. L., 4,676,422, Cl. 227-51.000.

Zamotin, Rodvinon I. Wheelchair for transferring occupant to motor vehicle. 4,669,943, 6-2-87, Cl. 414-343.000.

Zampiello, Albert N.: *See*—
Nelson, William H.; and Zampiello, Albert N., 4,652,132, Cl. 356-350.000.

Zampini, Anthony, to Monsanto Company. Benzyl substituted phenylene oxide membrane. 4,647,297, 3-3-87, Cl. 55-158.000.

Zampini, Anthony; and Malon, Raymond F., to Monsanto Company. Polyphenylene oxide membrane having chemically bonded coating. 4,652,283, 3-24-87, Cl. 55-158.000.

Zampini, Anthony, to Monsanto Company. Polymeric membranes with ammonium salts. 4,701,186, 10-20-87, Cl. 55-158.000.

Zampini, Anthony: *See*—
Malon, Raymond F.; and Zampini, Anthony, 4,654,055, Cl. 55-158.000.

Zampini, Louis, Jr. Belt finisher. 4,651,473, 3-24-87, Cl. 51-135.00R.

Zamzow, Donald D.; and Gorski, George L. Programmed mix and delivery system. 4,712,511, 12-15-87, Cl. 119-51.00R.

Zan, Ja D. Solar water conditioning apparatus for fishpond. 4,657,675, 4-14-87, Cl. 210-170.000.

Zanardelli, Vance P., to Ford Motor Company. Optical moisture sensor for a window or windshield. 4,652,745, 3-24-87, Cl. 250-227.000.

Zanardi, Giancarlo, to Azionaria Costruzioni Macchine Automatiche-A.C.M.A.-S.p.A. Apparatus for arranging articles into groups. 4,662,504, 5-5-87, Cl. 198-429.000.

Zandel, Adam, to Press Technology Corporation. Crosshead ties and clearance holes arrangement for easy removal of said ties without dismantling of entire crosshead. 4,633,700, 1-6-87, Cl. 72-455.000.

Zandel, Adam, to Press Technology Corporation. Apparatus for easy removal of large hydraulic cylinders from presses of pull-down design. 4,688,417, 8-25-87, Cl. 72-446.000.

Zandel, Adam, to Press Technology Corporation. Guiding arrangement for forging press columns assembled of flat tie-rod layers. 4,696,180, 9-29-87, Cl. 72-456.000.

Zandel, Adam: *See*—
Zeitlin, Alexander; and Zandel, Adam, 4,694,678, Cl. 72-455.000.
Zeitlin, Alexander; Brayman, Jack; and Zandel, Adam, 4,706,490, Cl. 72-455.000.

Zander, Susan: *See*—
Basore, Wayne; Zander, Susan; and Kiernan, Arthur, 4,646,802, Cl. 150-49.000.

Zandman, Felix; and Szwarc, Joseph, to Vishay Intertechnology, Inc. Precision power resistor with very low temperature coefficient of resistance. 4,677,413, 6-30-87, Cl. 338-7.000.

Zandonatti, Raymond A.: *See*—
Davis, Brent M.; Beckett, Frederick J.; and Zandonatti, Raymond A., 4,668,928, Cl. 335-79.000.
Morland, Mark R.; Cole, Paul A.; Cousins, Ivan J.; and Zandonatti, Raymond A., 4,708,661, Cl. 439-77.000.

Zandveld, Frederik; and Visser, Jeroen M., to U.S. Philips Corporation. Computer system comprising a data, address and control signal bus which comprises a left bus and a right bus. 4,695,944, 9-22-87, Cl. 364-200.000.

Zanello, Gastone; Zago, Giovanni; and Prataviera, Giovanni. Electrically operated self-cleaning ashtray. 4,635,649, 1-13-87, Cl. 131-237.000.

Zanessi, Arrigo. Fidelity control during operation of duplicator machines. 4,638,378, 1-20-87, Cl. 360-15.000.

Zanetti, Guido: *See*—
Kompis, Ivan; Rey-Bellet, Gerald; and Zanetti, Guido, 4,659,818, Cl. 544-163.000.

Zangara, Louis, to Societe pour l'Etude et la Fabrication de Circuits Integres Speciaux E.F.C.I.S. Static bistable flip-flop circuit obtained by utilizing CMOS technology. 4,703,200, 10-27-87, Cl. 307-279.000.

Zange, Egon: *See*—
Mallek, Heinz; Zange, Egon; Schlenter, Wolfgang; Trumper, Karl; Meininger, Siegfried; and Bege, Dietmar, 4,652,404, Cl. 252-628.000.

Zangenehpour, Saied, to Paradyne Corporation. Disk channel controller. 4,647,991, 3-3-87, Cl. 360-72.200.

Zangenfeind, Helmut: *See*—
Wurfel, Reinhart; Zangenfeind, Helmut; Domges, Gunther; and Kugel, Raimund, 4,643,371, Cl. 242-55.000.

Zanghieri, Carlo, to FIMA S.p.A. Method and equipment for the automatic inserting of encoded cards inside envelopes, and relating envelope module. 4,644,731, 2-24-87, Cl. 53-411.000.

Zangrando, Roy A., to United States of America, Army. Dead bolt lock operable by pressurized fluid. 4,647,089, 3-3-87, Cl. 292-144.000.

Zanier, Adriano, to Tesa S.A. Sensor for devices for measuring comparative linear magnitudes. 4,658,510, 4-21-87, Cl. 33-172.00E.

Zanin, Jury G.: *See*—
Redikultsev, Jury V.; Zanin, Jury G.; Shkidchenko, Alexandr N.; Gorbunov, Oleg P.; Maximov, Mikhail G.; and Chermenskaya, Taisia S., 4,689,306, Cl. 435-292.000.

Zanke, Dieter: *See*—
Schewe, Tankred; Strumpf, Thomas; Rapoport, Samuel M.; Zanke, Dieter; Slapke, Jurgen; Kuhn, Hartmut; Lyr, Horst; and Grupe, Renate, 4,670,469, Cl. 514-575.000.

Zankl, Wolfgang, to Dornier GmbH. Metallizing fiber re-inforced component. 4,708,778, 11-24-87, Cl. 204-25.000.

Zanma, Jun; Nishimura, Yoshinori; Shyoji, Kazuo; Shimagaki, Makoto; and Nakajima, Yoichi, to Toyo Engineering Corporation. Radial flow catalytic reactor including heat exchange apparatus within the bed. 4,714,592, 12-22-87, Cl. 422-192.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., to General Foods Corporation. L-aminodicarboxylic acid aminoalkenoic acid ester amides. 4,634,792, 1-6-87, Cl. 560-169.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., to General Foods Corporation. Foodstuff with L-aminodicarboxylic acid gem-diamines. 4,636,396, 1-13-87, Cl. 426-548.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., to General Foods Corporation. L-aminodicarboxylic acid aminoalkenoic acid ester amides. 4,652,457, 3-24-87, Cl. 426-548.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., to General Foods Corporation. L-aminodicarboxylic acid alkenes. 4,652,676, 3-24-87, Cl. 562-498.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., to General Foods Corporation. Sweetening with L-aminodicarboxylic acid amides. 4,678,674, 7-7-87, Cl. 426-548.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., to General Foods Corporation. Sweetening with L-aminodicarboxylic acid alkenes. 4,678,675, 7-7-87, Cl. 426-548.000.

Zanno, Paul R.; Barnett, Ronald E.; and Roy, Glenn M., to General Foods Corporation. L-aminodicarboxylic acid alkanes. 4,701,552, 10-20-87, Cl. 562-498.000.

Zanno, Paul R.: *See*—
Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., 4,638,071, Cl. 549-88.000.
Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., 4,654,219, Cl. 426-548.000.
Barnett, Ronald E.; Riemer, Jed A.; and Zanno, Paul R., 4,664,929, Cl. 426-548.000.
Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., 4,676,989, Cl. 426-548.000.
Barnett, Ronald E.; Zanno, Paul R.; and Roy, Glenn M., 4,698,231, Cl. 426-548.000.
Roy, Glenn M.; Barnett, Ronald E.; and Zanno, Paul R., 4,650,688, Cl. 426-548.000.
Roy, Glenn M.; Barnett, Ronald E.; and Zanno, Paul R., 4,654,439, Cl. 562-503.000.
Roy, Glenn M.; Barnett, Ronald E.; and Zanno, Paul R., 4,666,729, Cl. 426-548.000.

Zannoni, Eros, to Tetra-Dev Co. Method and an arrangement for packing machines. 4,641,486, 2-10-87, Cl. 53-433.000.

Zanon, Karl: *See*—
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Zanoni, Michael J. Method for automated construction of pants. 4,653,122, 3-31-87, Cl. 2-227.000.

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Mori, Maurizio; Babuin, Piero; and Cargnel, Giuseppe, 4,711,103, Cl. 68-12.00R.

Zanussi Elettrodomestici SPA: *See*—
Babuin, Piero, 4,696,171, Cl. 68-207.000.

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Erasov, Fedor N., 4,657,494, Cl. 418-61.00B.

Zaramella, Giancarlo: *See*—
Debarbieri, Franco; Montorsi, Roberto; and Zaramella, Giancarlo, 4,642,752, Cl. 364-167.000.

Zarate, Humberto T., to Dianalog Systems, Inc. Analog computer variable duty modulator. 4,694,890, 9-22-87, Cl. 165-12.000.

Zarchy, Andrew S.; Volles, Warren K.; and O'Keefe, Luke F., to Union Carbide Corporation. Isomerization process and apparatus. 4,709,116, 11-24-87, Cl. 585-738.000.

Zard, Lydia: *See*—
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Zard, Samir Z.: *See*—
Barton, Derek H. R.; Zard, Samir Z.; and Wozniak, Jocelyne, 4,689,410, Cl. 540-108.000.

Zardi, Umberto, to Ammonia Casle S.A. Process for the production of urea. 4,670,588, 6-2-87, Cl. 564-72.000.

Zardiackas, Fredrick L.: *See*—
Goodman, William R.; Mayfield, Richard B.; Tawshunsky, Ted; and Zardiackas, Fredrick L., 4,646,300, Cl. 371-33.000.

Zare, Richard N.; and Gassmann, Ernst, to Leland Stanford Junior University, The Board of Trustees of the. Laser-excitation fluorescence detection electrokinetic separation. 4,675,300, 6-23-87, Cl. 436-172.000.

Zaremba, Krzysztof: *See*—
Dziewanowski, Andre ; Piotrowski, Krzysztof; and Zaremba, Krzysztof, 4,686,075, Cl. 264-209.200.

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Ireland, Eric; O'Brien, Rory M.; Wall, Barrie; Hicks, Peter A. R., and Zaremba, Zbigniew, 4,665,625, Cl. 33-530.000.

Zarembo, Peter J., to Minnesota Mining and Manufacturing Company. Multi-sectional raceway. 4,677,799, 7-7-87, Cl. 52-220.000.

Zarembo, Peter J.: *See*—
Nourse, Gary E.; Fergen, James E.; and Zarembo, Peter J., 4,667,185, Cl. 340-572.000.

Zarges, Frank. Stacking system. 4,643,312, 2-17-87, Cl. 206-514.000.

Zarini, Franco: *See*—
Perrone, Ettore; Alpegiani, Marco; Zarini, Franco; Bruna, Costantino D.; and Franceschi, Giovanni, 4,713,378, Cl. 514-192.000.

Zarka, Michel, to Contact Securite - Societe d'Exploitation. Wheeled stretcher in which the plane on which the patient lies is adaptable in height. 4,682,810, 7-28-87, Cl. 296-20.000.

Zarkovacki, John: *See*—
Lukich, James L.; and Zarkovacki, John, 4,694,518, Cl. 5-136.000.

Zarlengo, Dominic A.; and Zarlengo, Phillip C. Security bar for window opening. 4,679,351, 7-14-87, Cl. 49-57.000.

Zarlengo, Phillip C.: *See*—
Zarlengo, Dominic A.; and Zarlengo, Phillip C., 4,679,351, Cl. 49-57.000.

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Zarley, Marilyn J.; and Zarley, Donald H., 4,712,504, Cl. 116-222.000.

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Zarn, Inc.: *See*—
Lee, Norman C., 4,715,144, Cl. 47-66.000.

Zarnoch, Kenneth P., and Iacovangelo, Charles D., to General Electric Company. Electroless nickel plating composition and method. 4,695,489, 9-22-87, Cl. 427-438.000.

Zarnstorff, William C.; and Ranallo, Frank N., to Wisconsin Alumni Research Foundation. Method and apparatus for the measurement of X-ray sources. 4,697,280, 9-29-87, Cl. 378-207.000.

Zarogatsky, Leonid P.; Ivanov, Nikolai A.; Korolkov, Mikhail F.; Laubgan, Villi R.; and Safronov, Andrei N., to Vsesojuzny Nauchno Issledovatelsky I Proektny Institut Mekhanicheskoi Obrabotki Poleznykh Iskopaemykh. Inertia cone crusher. 4,655,405, 4-7-87, Cl. 241-215.000.

Zaromb, Solomon: *See*—
Stetter, Joseph R.; Zaromb, Solomon; and Penrose, William R., 4,670,405, Cl. 436-151.000.

Zarowin, Charles B., to Perkin-Elmer Corporation, The. Optical figuring by plasma assisted chemical transport and etching apparatus therefor. 4,668,366, 5-26-87, Cl. 204-192.100.

Zarowin, Charles B.: *See*—
Venkataramanan, N.; and Zarowin, Charles B., 4,647,512, Cl. 428-688.000.

Zarr, Lewis E.: *See*—
Rubin, Richard H.; Hillman, Gary; Zarr, Lewis E.; and Hayes, William K., 4,685,852, Cl. 414-404.000.

Zarr, William A.: *See*—
Grosso, Vincent A.; Estlick, Raymond J.; and Zarr, William A., 4,690,350, Cl. 244-3.100.

Zarrineghbal, Hossein; Kittrell, James R.; and Darian, Saeed T., to OxiProcessing. Process for enhancing the cetane number of diesel fuel. 4,643,820, 2-17-87, Cl. 208-222.000.

Zarrineghbal, Hossein; and Quinlan, Charles W., to REI Technologies Inc. Process for enhancing the cetane number and color of diesel fuel. 4,711,713, 12-8-87, Cl. 208-222.000.

Zarrow, Scott F. Credit card carbon copy defacer. 4,645,701, 2-24-87, Cl. 428-120.000.

Zartman, David L., to New Mexico State University Foundation. Intravaginal parturition alarm and method for use. 4,651,137, 3-17-87, Cl. 340-573.000.

Zartman, David L., to New Mexico State University Foundation. Intravaginal anchor. 4,677,967, 7-7-87, Cl. 128-1.00R.

Zaruba, Igor I.; Dymenko, Vladimir V.; and Bolotko, Viktor I., to Institute Electrosvarki Imeni Patona. Apparatus for a-c arc welding with a consumable electrode. 4,692,585, 9-8-87, Cl. 219-130.400.

Zaruba, John V.; Rosenwinkel, Donald A.; and Breslow, Jeffrey D., to Marvin Glass & Associates. Biased receptacle action game. 4,662,635, 5-5-87, Cl. 273-1.0GF.

Zaruba, John V.; Hanson, Steven P.; and Kuna, Wayne A., to Marvin Glass & Associates. Portable game with captive parts. 4,708,347, 11-24-87, Cl. 273-246.000.

Zaschke, Horst: *See*—
Demus, Dietrich; Zaschke, Horst; Paschke, Reinhard; and Wieleben, Adalbert, 4,668,426, Cl. 252-299.610.

Zastrow, Thomas S., to Remmele Engineering, Inc. Apparatus for supporting the walls of appliances and the like during foaming. 4,691,906, 9-8-87, Cl. 269-48.100.

Zasuwa, Gerard A.: *See*—
Levin, Nathan W.; and Zasuwa, Gerard A., 4,710,164, Cl. 604-66.000.

Zato, Thomas J., to Zenith Electronics Corporation. Video system with television receiver and teletext processor capable of switching external RGB signals. 4,677,488, 6-30-87, Cl. 358-181.000.

Zato, Thomas J.: *See*—
Jones, Gary A.; Rees, Raymond M.; and Zato, Thomas J., 4,649,428, Cl. 358-188.000.

Zattara, Jean L.: *See*—
Fonfria, Robert; Risbet, Marie P.; and Zattara, Jean L., 4,696,082, Cl. 29-25.420.

Zatyiny, Michael D. Carrier for cylindrical hay bales. 4,687,402, 8-18-87, Cl. 414-24.600.

Zauer, Karoly. *See*—
Lempert, Karoly; Hornyak, Gyula; Bartha, Ferenc; Doleschall, Gabor; Fetter, Jozsef; Nyitrai, Jozsef; Simig, Gyula; Zauer, Karoly; Huszthy, Peter; Feller, Antal; Petocz, Lujza; Szirt, Eniko; Grasser, Katalin; Berenyi, Edit; Orr, Zsuzsanna; and Pjeczka, Etelka, 4,665,083, Cl. 514-370.000.

Zaugg, Hans. *See*—
Thomke, Ernst; and Zaugg, Hans, 4,636,037, Cl. 350-334.000.

Zauhar, Helmut: *See*—
Lossl, Gunter; Zauhar, Helmut; and Stock, Horst, 4,633,847, Cl. 125-13.00R.

Zaunberger, Franz-Xaver; and Kugler, Artur, to Zahnraderfabrik Renk, AG. Deflection compensating gear system with radially displaceable ring gear. 4,674,350, 6-23-87, Cl. 74-438.000.

Zava, Francis: *See*—
Coppa, Louis; Mengual, Christian; Ripart, Alain; and Zava, Francis, 4,657,728, Cl. 376-248.000.

Zavada, Francis J.: *See*—
Erickson, Kenneth J.; Pirosko, Thomas J.; and Zavada, Francis J., 4,651,486, Cl. 52-306.000.

Zavada, Richard: *See*—
Oyler, John F.; Brand, Jerry D.; and Zavada, Richard, 4,683,029, Cl. 196-14.520.

Zavalishin, Nikolai N.: *See*—
Dzemeshkevich, Sergei L.; Zavalishin, Nikolai N.; Krasovskaya, Svetlana M.; Sagalevich, Valery M.; Konstantinov, Boris A.; Nenjukov, Alexandr K.; and Ivanov, Alexei S., 4,692,164, Cl. 623-2.000.

Zave, Derek A., to American Telephone and Telegraph Company; and Bell Telephone Laboratories, Incorporated. Computer system with tasking. 4,685,125, 8-4-87, Cl. 379-96.000.

Zavelovich, Joshua; and Reddy, K. Virupaksha, to Standard Oil Company (Indiana). Photochemical process for the hydrobromination of olefinic double bonds. 4,643,812, 2-17-87, Cl. 204-157.610.

Zaveri, Vikram; Heling, Dennis H.; and Radyko, Keith S., to Keiper Recaro Incorporated; and Chrysler Motors Corporation. Vehicle easy entry seat latching mechanism. 4,634,186, 1-6-87, Cl. 297-341.000.

Zavod za Elektronni Preobrazuvatelni Elementi: *See*—
Kanchev, Peter K., 4,703,509, Cl. 381-191.000.

Zavodszky nee Szabo, Anna: *See*—
Nagy nee Kricsfalussy, Margit; Zavodszky nee Szabo, Anna; Rakoczi, Jozsef; and Halmos, Jozsef, 4,661,340, Cl. 424-47.000.

Zavracky, Paul M.; and Morrison, Richard H., Jr., to Foxboro Company, The. Method of making a micromechanical electric shunt. 4,674,180, 6-23-87, Cl. 29-622.000.

Zavy, Michael T.: *See*—
Lindsey, Thomas O.; and Zavy, Michael T., 4,711,897, Cl. 514-665.000.

Zawacki, Edna M., to Alba Health Care, division of Alba-Waldensian, Inc. Eye shield cap for infants. 4,644,588, 2-24-87, Cl. 2-10.000.

Zaweski, Edward F., and Niebylski, Leonard M., to Ethyl Corporation. Fuel compositions. 4,652,272, 3-24-87, Cl. 44-57.000.

Zaweski, Edward F.: *See*—
Wright, William E.; and Zaweski, Edward F., 4,645,538, Cl. 106-273.00N.

Zawislak, Stephen P.: *See*—
Clarke, Steven R.; Price, John B.; Sallavanti, Robert A.; and Zawislak, Stephen P., 4,698,956, Cl. 57-2.000.

Zawodni, Frank W., to Dana Corporation. Anchor pin retainer. 4,679,667, 7-14-87, Cl. 188-341.000.

Zax, David B.: *See*—
Weitekamp, Daniel P.; Bielecki, Anthony; Zax, David B.; Zilm, Kurt W.; and Pines, Alexander, 4,710,714, Cl. 324-307.000.

Zay, John. Coin counter and wrapper and method of counting and wrapping coins. 4,694,845, 9-22-87, Cl. 453-59.000.

Zayas, Victor A., to Earthquake Protection Systems, Inc. Earthquake protective column support. 4,644,714, 2-24-87. Cl. 52-167.000.

Zazzu, Victor: *See*—
Dingwall, Andrew G. F.; and Zazzu, Victor, 4,691,189, Cl. 340-347.0AD.

Zbar, Jack: *See*—
Khudenko, Boris M.; and Zbar, Jack, 4,713,102, Cl. 62-535.000.

Zbinden, Terry B.; and Marthaler, Richard D., to Sperry Corporation. Four phase clock signal generator. 4,654,599, 3-31-87, Cl. 328-62.000.

Zbitnoff, John: *See*—
Caplis, Thomas J.; and Zbitnoff, John, 4,698,926, Cl. 37-197.000.

Zboralski, James A.: *See*—
Kaleita, David L.; Zboralski, James A.; and Hock, Darryl A., 4,674,115, Cl. 379-201.000.

Zboril, Vaclav G., to Du Pont Canada Inc. Color of polymers. 4,666,994, 5-19-87, Cl. 525-370.000.

Zboril, Vaclav G., to Du Pont Canada Inc. Color of polymers. 4,711,923, 12-8-87, Cl. 524-323.000.

Zboril, Vaclav G.: *See*—
Mitchell, David J.; and Zboril, Vaclav G., 4,701,504, Cl. 526-83.000.

Zbornik, Vaclav. Bending tool. 4,653,307, 3-31-87, Cl. 72-389.000.

Zborovsky, Ilya: *See*—
Sherman, Victor; Zborovsky, Ilya; and Sanchez, William, 4,715,357, Cl. 126-39.00H.

Zborowski, David G., to Caterpillar Inc. Method and apparatus for tensioning frictionally driven, ground engaging belts. 4,681,177, 7-21-87, Cl. 180-9.560.

Zdanowicz, Larry E.: *See*—
Bland, Gerald F.; and Zdanowicz, Larry E., 4,650,428, Cl. 440-83.000.

Zdanys, John, Jr.: *See*—
Gornick, Robert F.; and Zdanys, John, Jr., 4,654,522, Cl. 250-231.0SE.
VanBenthuysen, John D.; Zdanys, John, Jr.; and Nold, Matthew D., 4,670,629, Cl. 200-5.00C.

Zdarsky, Eduard, to Vereinigte Dentalwerke Antaeos-Beutelrock Zipperer Zdarsky Ehr-GmbH & Co. KG. Holding arrangement for dental hand instruments. 4,643,674, 2-17-87, Cl. 433-102.000.

Zdasiuk, George A.: *See*—
Riaziat, Majid; and Zdasiuk, George A., 4,642,587, Cl. 333-125.000.

Zdeb, Brian: *See*—
Turoff, Robert; Gokcen, Cem M.; and Zdeb, Brian, 4,655,355, Cl. 215-32.000.

Zdinak, Matthew J.: *See*—
Benner, Harold T., Jr.; Leonhardt, Mark A.; and Zdinak, Matthew J., 4,702,289, Cl. 141-125.000.

Zdrahala, Richard J.; and Spielvogel, David, to Becton, Dickinson and Company. Soft non-blocking polyurethanes. 4,647,643, 3-3-87, Cl. 528-28.000.

Zdunek, Kenneth J.; Heyman, Bruce D.; and Sasuta, Michael D., to Motorola, Inc. Automatic unit ID for quasi-transmission trunked systems. 4,646,345, 2-24-87, Cl. 379-62.000.

Zdunek, Kenneth J., to Motorola, Inc. Dispatch trunked radio system. 4,692,945, 9-8-87, Cl. 455-17.000.

Zdziarski, Mark J.: *See*—
Bores, Leonard F.; and Zdziarski, Mark J., 4,715,649, Cl. 296-218.000.

Zeable, Zane V.: *See*—
Hallcher, Richard C.; and Zeable, Zane V., 4,647,350, Cl. 204-59.00F.

Zeaman, Robert E.; and Meyer, David E. Odometer for golf cart. 4,680,454, 7-14-87, Cl. 235-95.00R.

Zebedee, Alan R.; and Hutchins, Derek R., to Nouveaux Security Products Limited. Hinge bolt set. 4,640,052, 2-3-87, Cl. 49-383.000.

Zebelman, Arthur M.: *See*—
Batjer, John D.; Eades, Lindsay R.; Liedtke, Raymond J.; and Zebelman, Arthur M., 4,641,674, Cl. 134-138.000.

Zebley, Raymond S.; Nichols, James H., Jr.; and Ciosek, Bernard M., Jr., to Du Pont de Nemours, E. I., and Company. Package and apparatus for dispensing electrical connectors. 4,690,302, 9-1-87, Cl. 221-11.000.

Zeblisky, Rudolph J.: *See*—
Morrissey, Denis M.; Takach, Peter E.; and Zeblisky, Rudolph J., 4,683,036, Cl. 204-15.000.

Zebrowski, David; and Spector, George. Lottery number selector. 4,669,732, 6-2-87, Cl. 273-148.00A.

Zebuhr, William H., to American Thermal Corporation. Pressure transfer fluid heater. 4,658,760, 4-21-87, Cl. 122-13.00R.

Zebula, Charles: *See*—
Datta, Rabinder S.; Aplan, Frank F.; and Zebula, Charles, 4,673,133, Cl. 241-19.000.

Zec, Milan: *See*—
Russo, Adolph D.; and Zec, Milan, 4,662,085, Cl. 34-105.000.

Zech, Ulrich: *See*—
Tattermusch, Peter; and Zech, Ulrich, 4,703,947, Cl. 280-689.000.

Zecher, Wilfried; Reinking, Klaus; and Kleiner, Frank, to Bayer Aktiengesellschaft. Process for the production of polyamide imides. 4,640,970, 2-3-87, Cl. 528-73.000.

Zechmair, Wilhelm: *See*—
Dick, Michael; Zechmair, Wilhelm; and Bayer, Peter, 4,667,452, Cl. 52-650.000.

Zechnall, Martin: *See*—
Breitkreuz, Helmut; Clement, Albrecht; Mayer, Dieter; Ruppmann, Claus; Walz, Dieter; Wild, Ernst; and Zechnall, Martin, 4,683,861, Cl. 123-520.000.
Kirschner, Michael; Rapp, Gunter; and Zechnall, Martin, 4,682,049, Cl. 307-268.000.

Zeck, Walter M.; and Simonet, Donald E., to Mobay Corporation. Synergistic composition for the control of arthropods. 4,690,947, 9-1-87, Cl. 514-521.000.

Zeck, Walter M.: *See*—
Anderson, John; Homeyer, Bernhard; Kuhle, Engelbert; Scheinpflug, Hans; Zeck, Walter M.; and Simonet, Donald E., 4,656,163, Cl. 514-84.000.

Zecman, Kenneth P., to Pegasus Industries, Inc. Casting nozzle. 4,635,851, 1-13-87, Cl. 239-133.000.

Zecman, Kenneth P. Shot tip for cold chamber die casting machine. 4,667,729, 5-26-87, Cl. 164-312.000.

Zecman, Kenneth P. Die casting torch. 4,678,429, 7-7-87, Cl. 431-144.000.

Zed Instruments, Ltd.: *See*—
Zollman, Peter M.; and Kernthaler, John E., 4,666,300, Cl. 356-141.000.

Zeder, Abraham. Impedance sensing anti-theft device. 4,658,242, 4-14-87, Cl. 340-568.000.

Zedler, Angelika A.; and Trescol, Jean J., to Akzo nv. Process for coating an electrically conductive substrate and an aqueous composition containing a cationic binder. 4,661,223, 4-28-87, Cl. 204-181.700.

Zedrosser, Ulrich, to Steyr-Daimler-Puch AG. Cocking slide for automatic hand firearms. 4,702,144, 10-27-87, Cl. 89-1.400.

Zee-Cheng, Robert K.; and Cheng, Chia C., to Warner-Lambert Company. 3,6-disubstituted-1,8-naphthalimides and methods for their production and use. 4,665,071, 5-12-87, Cl. 514-237.000.

Zeeh, Bernd; Ammermann, Eberhard; Buschmann, Ernst; and Pommer, Ernst-Heinrich, to BASF Aktiengesellschaft. Fungicidal alpha-azolylglycols. 4,659,705, 4-21-87, Cl. 514-184.000.

Zeeh, Bernd: *See*—
Rentzea, Costin; Sauter, Hubert; Zeeh, Bernd; Heilen, Gerd; and Jung, Johann, 4,684,392, Cl. 71-76.000.

Zeeh, Rainer: *See*—
Schneider, Horst; Zeeh, Rainer; and Neumann, Hans J., 4,637,119, Cl. 29-568.000.
Schneider, Horst; Zeeh, Rainer; and Neumann, Hans J., 4,649,623, Cl. 29-568.000.
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Zeets, Joseph S.: *See*—
Powers, Richard G.; Zeets, Joseph S.; Currier, Joseph G.; and Alley, Lewis F., 4,708,296, Cl. 241-82.200.

Zeevi, Yehoshua Y.; and Medina, Antonio, Apparatus for relief illusion. 4,714,319, 12-22-87, Cl. 350-144.000.

Zeevi, Yehoshua Y.: *See*—
Medina, Antonio; and Zeevi, Yehoshua Y., 4,695,130, Cl. 350-132.000.

Zega, Bogdan, to Battelle Development Corporation. Hard layer formed by incorporating nitrogen into Mo or W metal and method for obtaining this layer. 4,684,536, 8-4-87, Cl. 427-47.000.

Zega, Henry E.: *See*—
Barrett, John P.; Schulz, Daniel R.; Kent, David E.; deFasselle, Robert J.; and Zega, Henry E., 4,700,884, Cl. 236-12.120.

Zegarski, Anthony J. Satellite locator apparatus, 4,674,873, 6-23-87, Cl. 356-138.000.

Zeghloul, Said: *See*—
Guinot, Jean-Claude; Lallemand, Jean-Paul; Murguet, Denis; Zeghloul, Said; and Bidaud, Philippe, 4,653,793, Cl. 294-86.400.

Zeh, Horst, to Wiederaufarbeitungsanlage Karlsruhe Betriebsgesellschaft mbH. Gravity actuated gripper. 4,645,256, 2-24-87, Cl. 294-86.400.

Zeh, Horst, to Wiederaufarbeitungsanlage Karlsruhe Betriebsgesellschaft mbH. Apparatus for sampling toxic fluids. 4,653,333, 3-31-87, Cl. 73-863.810.

Zeh, Peter H.: *See*—
Hensler, Paul L.; Kelso, Frederick J.; Wolfe, Gary E.; and Zeh, Peter H., 4,656,019, Cl. 423-315.000.

Zehl, Hermann: *See*—
Schneider, Arthur; Baum, Walter; and Zehl, Hermann, 4,686,530, Cl. 340-870.310.

Zehnder, Beat, to Hoffmann-La Roche Inc. Fungicidal pyridine derivatives for use in agriculture. 4,699,652, 10-13-87, Cl. 71-94.000.

Zehnder, Beat: *See*—
Dorn, Franz; Pfiffner, Albert; and Zehnder, Beat, 4,678,790, Cl. 514-277.000.

Zehnder, Jurg: *See*—
Ritzl, Antal; and Zehnder, Jurg, 4,678,225, Cl. 296-181.000.

Zehner, Georgia L.; Boland, Leona G.; and Stevens, Robert A., to Kimberly-Clark Corporation. Form-fitting self-adjusting disposable garment with absorbent retaining flaps. 4,701,173, 10-20-87, Cl. 604-385.00A.

Zehner, Georgia L.: *See*—
Boland, Leona G.; Zehner, Georgia L.; and Stevens, Robert A., 4,701,171, Cl. 604-385.00A.
Boland, Leona G.; Stevens, Robert A.; Wilson, John C.; and Zehner, Georgia L., 4,710,187, Cl. 604-385.00A.

Zeibig, Anton; Brigasky, Hans; and Lewand, Willi, to Hoechst Ceram-Tec Aktiengesellschaft. Extrusion device for the production of honeycomb structures. 4,668,176, 5-26-87, Cl. 425-464.000.

Zeichner-David, Margarita: *See*—
Slavkin, Harold C.; Snead, Malcolm L.; Woo, Savio L. C.; and Zeichner-David, Margarita, 4,672,032, Cl. 435-68.000.

Zeiders, Glenn: *See*—
Hoag, Ethan; and Zeiders, Glenn, 4,686,680, Cl. 372-58.000.

Zeides, Otto. Propeller for gaseous and fluidic media. 4,636,143, 1-13-87, Cl. 416-228.000.

Zeidler, Georg: *See*—
Bergmann, Udo; Hansen, Guenter; and Zeidler, Georg, 4,638,055, Cl. 534-678.000.

Zeidler, Ulrich: *See*—
Moeller, Hinrich; and Zeidler, Ulrich, 4,705,682, Cl. 424-70.000.
Schieferstein, Ludwig; Zeidler, Ulrich; and Hensen, Hermann, 4,650,602, Cl. 252-522.00R.

Zeidler, William F.: *See*—
Gaenzle, Todd; and Zeidler, William F., 4,655,429, Cl. 248-553.000.

Zeiffer, Dieter F., to Gaston County Dyeing Machine Co. Foamed treating liquor applicator. 4,655,056, 4-7-87, Cl. 68-205.00R.

Zeiger, Donald J., to Mallard Machine Company. Check valve assembly for injection molding machine. 4,643,665, 2-17-87, Cl. 425-563.000.

Zeiger, Heinz; and Laukien, Gunther R., to Bruker Medizintechnik GmbH. Method for recording nuclear resonance signals. 4,698,594, 10-6-87, Cl. 324-309.000.

Zeigler, James E.: *See*—
Goodwin, Eber L.; and Zeigler, James E., 4,667,949, 271-207.000.

Zeigler, Paul R. Portable adjustable bed raiser. 4,651,365, 3-24-87, 5-74.00R.

Zeigler, Rodney N.: *See*—
Colbaugh, Michael E.; Zeigler, Rodney N.; and Batt, Theodon 4,666,102, Cl. 242-86.50R.

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Zeigler, Warren L.; and Zeigler, Roy F., 4,667,353, Cl. 4-607

Zeigler, Theodore R. Clip for self-locking collapsible/expand structures. 4,637,180, 1-20-87, Cl. 52-109.000.

Zeigler, Theodore R. Portable shelter assemblies. 4,689,932, 9-1-87, 52-648.000.

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Zeikus, Joseph G.; and Hyun, Hyung-Hwan, to Michigan Biotech ogy Institute. Thermostable beta-amylase. 4,647,538, 3-3-87, 435-201.000.

Zeile, Heinrich; and Witt, Hartmut, to U.S. Philips Corporation. S conductor temperature sensor. 4,670,731, 6-2-87, Cl. 338-225.000

Zeilenga, Christopher. Protective mechanism for circular s 4,672,746, 6-16-87, Cl. 30-391.000.

Zeiler, Hans-Joachim: *See*—
Angerbauer, Rolf; Boberg, Michael; Metzger, Karl G.; and Ze Hans-Joachim, 4,686,216, Cl. 514-202.000.
Benz, Gunter; Metzger, Karl G.; Pfitzner, Jorg; Schmidt, Delf; Zeiler, Hans-Joachim, 4,670,542, Cl. 530-331.000.
Grohe, Klaus; Klimetzek, Volker; Metzger, Karl G.; Stu Klaus G.; and Zeiler, Hans-Joachim, 4,659,603, Cl. 424-88.0
Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl 4,666,920, Cl. 514-312.000.
Grohe, Klaus; Zeiler, Hans-Joachim; and Metzger, Karl 4,670,444, Cl. 514-300.000.
Kruger, Bernd-Wieland; Hayauchi, Yutaka; Lockhoff, Osw Stadler, Peter; Metzger, Karl G.; Stunkel, Klaus G.; and Ze Hans-Joachim, 4,699,899, Cl. 514-42.000.
Kruger, Bernd-Wieland; Lockhoff, Oswald; Metzger, Karl Opitz, Hans-Georg; Schaller, Klaus; Stunkel, Klaus G.; Zeiler, Hans-Joachim, 4,716,152, Cl. 514-25.000.
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Petersen, Uwe; Grohe, Klaus; Zeiler, Hans-Joachim; and Metz Karl G., 4,703,047, Cl. 514-254.000.
Schriewer, Michael; Grohe, Klaus; Zeiler, Hans-Joachim; Metzger, Karl G., 4,705,788, Cl. 514-254.000.

Zeilinger, Alan, to Magic American Chemical Corporation. Sea system. 4,706,427, 11-17-87, Cl. 52-288.000.

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Zeilon, Sten O. Closed intermittent drying process. 4,689,894, 9-1 Cl. 34-13.000.

Zeilstra, Jacobus J.; and Brink, Ted, to Akzo nv. Copolyether based on poly (propylene oxide) glycol blocked with ethylene o 4,687,835, 8-18-87, Cl. 528-300.000.

Zeimet, Richard E. Center stern outboard motor mount for double canoes. 4,690,649, 9-1-87, Cl. 440-6.000.

Zeiner, Hartmut: *See*—
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Zeipel, Kurt. Microwave appliance used for warming blood or bl derivatives stored in a bag. 4,652,712, 3-24-87, Cl. 219-10.55F.

Zeiringer, Hans. Method of producing a grinding medium. 4,643, 2-17-87, Cl. 501-87.000.

Zeiringer, Rudolf: *See*—
Stubenberg, Johann; Denk, Heimo; and Zeiringer, Ru 4,711,429, Cl. 73-708.000.

Zeischegg, Walter; and Brussing, Bernd, to Zeischegg, Walter. Pla especially for hydroculture. 4,663,884, 5-12-87, Cl. 47-59.000.

Zeisel, Eva: *See*—
Kaffka, Karoly; Lezak, Tibor; Striker, Gyorgy; and Zeisel, 4,705,216, Cl. 239-18.000.

Zeisel, Peter. Method for burning and sintering limestone, dolomite the like and plant for the implementation thereof. 4,662,841, 5-5 Cl. 432-14.000.

Zeiset, A. Leon. Automatic ladder leveling apparatus. 4,673, 6-16-87, Cl. 182-202.000.

Zeising, Norbert, to Olympia Werke AG. Method and apparatus filling out a form by a machine. 4,651,288, 3-17-87, Cl. 364-519.

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Zeiss Ikon AG: *See*—
Tietz, Werner, 4,653,298, Cl. 70-406.000.

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Gunther, Dieter, 4,641,508, Cl. 70-380.000.
Tietz, Werner; and Kruhn, Jurgen, 4,662,197, Cl. 70-276.000.

Zeiss, John C.: *See*—
Bjorndal, Paul M.; Knapp, Julius Z.; and Zeiss, John C., 4,676,650, Cl. 356-427.000.

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Pfeiffer, Arthur M.; Tacklind, Christopher A.; Haas, Michael D.; and Zeiszler, James M., 4,667,959, Cl. 273-149.00R.

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Zeitler, Norbert: *See*—
Eberle, Hans-Jurgen; Kreuzer, Franz-Heinrich; and Zeitler, Norbert, 4,668,836, Cl. 585-364.000.

Zeitlin, Alexander; and Zandel, Adam, to Press Technology Corporation. Tie-rods fabricated of composite materials for forging presses. 4,694,678, 9-22-87, Cl. 72-455.000.

Zeitlin, Alexander; Brayman, Jack; and Zandel, Adam, to Press Technology Corp. Forging press with yoke design for attaching tie-rods to crossheads. 4,706,490, 11-17-87, Cl. 72-455.000.

Zeitlin, Robert J.: *See*—
Shida, Mitsuzo; Machonis, John, Jr.; and Zeitlin, Robert J., 4,675,471, Cl. 174-36.000.

Zeitsch, Karl, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Method of and apparatus for distilling a nonazeotropic liquid mixture. 4,666,564, 5-19-87, Cl. 203-100.000.

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Zeitz, Rudiger: *See*—
Greving, Gerhard; Hofgen, Gunther; and Zeitz, Rudiger, 4,641,142, Cl. 342-399.000.

Zelasko, Joseph: *See*—
Newman, Lola; and Zelasko, Joseph, 4,678,150, Cl. 248-205.300.

Zelczer, Alex; and Zelczer, Ruth. Zone control apparatus for central heating and/or cooling systems. 4,702,412, 10-27-87, Cl. 236-46.00R.

Zelczer, Ruth: *See*—
Zelczer, Alex; and Zelczer, Ruth, 4,702,412, Cl. 236-46.00R.

Zelenetsky, Vladimir E.: *See*—
Shishov, Nikolai M.; Zelenetsky, Vladimir E.; Demina, Nadezhda A.; Bondarev, Ivan M.; Cherny, Alexandr N.; Avvantiev, Anatoly G.; and Rylov, Evgeny E., deceased, 4,645,487, Cl. 604-58.000.

Zelenka, Frank, to Bartell Industries Ltd. Brake system for cutters of surface cleaning cutter cage. 4,640,553, 2-3-87, Cl. 299-39.000.

Zelenka, Terence: *See*—
Locacius, Robert F.; and Zelenka, Terence, 4,705,278, Cl. 277-235.00B.

Zelenko, Harry; and Zelenko, Marion. Sample book construction. 4,703,943, 11-3-87, Cl. 281-21.00R.

Zelenko, Marion: *See*—
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Zeleznak, Joseph J.: *See*—
Soroka, Daniel P.; Swensrud, Roger L.; and Zeleznak, Joseph J., 4,710,606, Cl. 219-121.0LU.
Swensrud, Roger L.; White, Mark D.; Janosik, Michael J.; Soroka, Daniel P.; and Zeleznak, Joseph J., 4,659,902, Cl. 219-121.0LU.

Zeleznik, Mark R.: *See*—
Stanley, Thomas R.; and Zeleznik, Mark R., 4,709,450, Cl. 17-49.000.

Zelinka, Richard L.: *See*—
Barris, Marty A.; and Zelinka, Richard L., 4,650,506, Cl. 55-487.000.

Zelinski, Roger M. Portable, collapsible stand for use in cleaning a muzzle loading rifle or a muzzle loading shotgun. 4,696,461, 9-29-87, Cl. 269-16.000.

Zelko, William E.: *See*—
Good, Robert S.; Scully, Michael J.; and Zelko, William E., 4,701,139, Cl. 439-497.000.

Zelkowitz, Philip. Electronic instrument housing. 4,716,493, 12-29-87, Cl. 361-383.000.

Zell, Karl: *See*—
Glomb, Kurt; Niggl, Heinz; Pelzl, Leo; and Zell, Karl, 4,659,165, Cl. 339-176.00M.
Glomb, Kurt; Niggl, Heinz; Pelzl, Leo; and Zell, Karl, 4,710,132, Cl. 439-79.000.
Pelzl, Leo; Seibold, Juergen; and Zell, Karl, 4,652,066, Cl. 339-17.0LC.
Seidel, Peter; Pelzl, Leo; and Zell, Karl, 4,712,849, Cl. 439-607.000.
Thom, Guenter; and Zell, Karl, 4,674,812, Cl. 439-78.000.

Zeller, Bary L.; McKay, Randal P.; and Saleeb, Fouad Z., to General Foods Corporation. Method and manufacture for moisture-stable, inorganic, microporous saccharide salts. 4,659,390, 4-21-87, Cl. 127-29.000.

Zeller, Bruno, to Oberlikon-Boehringer GmbH. Deep hole drilling machine. 4,669,927, 6-2-87, Cl. 408-13.000.

Zeller, Bruno: *See*—
Felten, Klaus; Honroth, Walter; Kuhn, Siegfried; Schulten, Hermann; and Zeller, Bruno, 4,696,209, Cl. 82-40.00R.

Zeller, Christoph: *See*—
Hartkopf, Hans-Otto; and Zeller, Christoph, 4,680,809, Cl. 455-601.000.

Zeller Corporation, The: *See*—
Mazziotti, Michael F.; and Mazziotti, Philip J., 4,674,993, Cl. 464-111.000.

Zeller, David A., Jr., to ITT Corporation. Apparatus for optimizing the charging of a rechargeable battery. 4,668,902, 5-26-87, Cl. 320-31.000.

Zeller, David A., Jr.: *See*—
Hargrave, Franklin; Zeller, David A., Jr.; Smith, Mark G.; Hull, William L., III; and Middleton, Francisco A., 4,646,342, Cl. 379-24.000.
Smith, Mark G.; French, Karen J.; Zeller, David A., Jr.; Hargrave, Franklin; and Middleton, Francisco A., 4,654,869, Cl. 379-107.000.

Zeller & Gmelin GmbH & Co.: *See*—
Seng, Hans-Peter, 4,661,527, Cl. 521-55.000.

Zeller, Gregor; and Bonn, Helmut, to Petri AG. Current conduction connector for the electrical connection of gas bag collision protection installation. 4,657,326, 4-14-87, Cl. 339-3.00S.

Zeller, Gregor; and Bonn, Helmut, to Petri AG. Steering wheel installation alignment device. 4,660,500, 4-28-87, Cl. 116-31.000.

Zeller, Gregor, to Petri Aktiengesellschaft. Steering wheel for automotive vehicles and process for its manufacture. 4,662,238, 5-5-87, Cl. 74-552.000.

Zeller, Gregor, to Petri A.G. Electric contact device for protective gas bag impact installations in automotive vehicles. 4,714,430, 12-22-87, Cl. 439-15.000.

Zeller, Mark F., to N.T.T. Corporation. Retaining clamp for disc brake pistons. 4,671,144, 6-9-87, Cl. 81-488.000.

Zeller, Norbert: *See*—
Frey, Volker; Pachaly, Bernd; and Zeller, Norbert, 4,667,046, Cl. 556-430.000.

Zeller Plastik Koehn, Graebner & Co.: *See*—
Persch, Alois, 4,638,917, Cl. 215-252.000.

Zeller, Robert, to Uranit GmbH. Method and apparatus for the infinitely variable setting of the tails U^{235} concentration of gas centrifuge cascades for the separation of uranium isotopes. 4,708,709, 11-24-87, Cl. 494-32.000.

Zeller, Vincent P.; and Burris, Wesley J., II, to Halliburton Company. Control method for a recording device. 4,689,744, 8-25-87, Cl. 364-422.000.

Zeller, Zellis C., to Triple "F", Inc. Apparatus for particulating an oleaginous product. 4,696,634, 9-29-87, Cl. 425-237.000.

Zeller + Gmelin GmbH & Co.: *See*—
Seng, Hans-Peter, 4,687,520, Cl. 106-271.000.
Seng, Hans-Peter, 4,701,220, Cl. 106-203.000.

Zellmer, Joel A.: *See*—
Neuder, David L.; and Zellmer, Joel A., 4,641,348, Cl. 382-1.000.

Zellweger, Conrad: *See*—
Gendey, Yves; and Zellweger, Conrad, 4,658,871, Cl. 141-293.000.

Zellweger Uster, Ltd.: *See*—
Aemmer, Peter F.; and Aeppli, Kurt, 4,643,230, Cl. 139-1.00B.
Baer, Hanspeter, 4,642,637, Cl. 340-870.190.
Felix, Ernst; and Feller, Peter, 4,653,153, Cl. 19-240.000.
Goede, Simon, 4,673,003, Cl. 139-342.000.
Mueller, Beat, 4,653,016, Cl. 364-724.000.
Thomann, Christof, 4,638,169, Cl. 250-560.000.

Zelmanovic, David; and Kishner, Stanley J., to Kollmorgen Technologies Corporation. Method of monitoring ink-water balance on a lithographic printing press. 4,677,298, 6-30-87, Cl. 250-341.000.

Zelms, Charles M.: *See*—
Rouse, David M.; Wallace, Richard E.; and Zelms, Charles M., 4,683,563, Cl. 370-16.000.

Zelonka, Ronald A.: *See*—
Boivin, Daniel W.; and Zelonka, Ronald A., 4,678,834, Cl. 525-74.000.

Zeltron Istituto Zanussi per l'Elettronica S.p.A.: *See*—
Boscolo, Antonio; and Stibelli, Sergio, 4,703,633, Cl. 68-12.00R.

Zema Corporation: *See*—
Bowman, Hal K., 4,665,434, Cl. 252-522.00A.

Zema, Paul: *See*—
Collins, George L.; Zema, Paul; and Rashada, Yusuf A., 4,652,613, Cl. 525-69.000.

Zeman, David. Distribution fitting. 4,688,599, 8-25-87, Cl. 137-561.00A.

Zeman, Francis H.: *See*—
Gustafson, Harry A.; Lim, Wah L.; and Zeman, Francis H., 4,641,970, Cl. 356-350.000.

Zemanek, Charles P.: *See*—
Narula, Dipak; Be, Anh; and Zemanek, Charles P., 4,701,380, Cl. 428-447.000.

Zemanek, Danny: *See*—
Kester, Eugene A.; Reeves, Scott P.; and Zemanek, Danny, 4,712,756, Cl. 248-165.000.

Zemanek, Joseph, Jr., to Mobil Oil Corporation. Method and apparatus for generating low frequency acoustic energy waves. 4,674,067, 6-16-87, Cl. 367-25.000.

Zemanek, Joseph, Jr.: *See*—
Angona, Frank A.; and Zemanek, Joseph, Jr., 4,649,525, Cl. 367-31.000.

Zemany, Paul D., Jr., to Sanders Associates, Inc. Program simulation system including means for ensuring interactive enforcement of constraints. 4,677,587, 6-30-87, Cl. 364-900.000.

Zembrod, Alfred: *See*—
Dedden, Hubert; Forster, Dietrich; Rost, Horst; and Zembrod, Alfred, 4,665,036, Cl. 435-301.000.

Zembrodt, Anthony R.: *See*—
Shaer, Elias H.; and Zembrodt, Anthony R., 4,666,625, Cl. 252-146.000.

Zemco Group, Inc.: *See*—
Blaney, Peter G., 4,694,583, Cl. 33-361.000.

Zemel, Bernard; and Closmann, Philip J., to Shell Oil Company. Steam quality measurement apparatus and method. 4,712,006, 12-8-87, Cl. 250-269.000.

Zemel, Jay N., to University of Pennsylvania. Substance-sensitive electrical structures. 4,644,380, 2-17-87, Cl. 357-25.000.

Zemex Corporation: *See*—
Gloskey, Carl R., 4,658,046, Cl. 556-100.000.

Zemgals, Edvin: *See*—
Sjostrom, Douglas D.; and Zemgals, Edvin, 4,705,038, Cl. 128-305.000.

Zemke, Anne H., legal representative: *See*—
Zemke, Edward H., deceased; Vandersyde, Gary L.; Rabindran, K. George; and Guenther, Kenneth L., 4,697,246, Cl. 364-563.000.

Zemke, Edward H., deceased (by Zemke, Anne H., legal representative); Vandersyde, Gary L.; Rabindran, K. George; and Guenther, Kenneth L., to Bell & Howell Company. Method and apparatus for detecting the engagement of a proper number of articles. 4,697,246, 9-29-87, Cl. 364-563.000.

Zemke, Ronald O.: *See*—
Welygan, Dennis G.; and Zemke, Ronald O., 4,634,485, Cl. 156-244.110.

Zemke, Steven C., to General Instrument Corporation. Keyboard cursor controller. 4,670,743, 6-2-87, Cl. 340-709.000.

Zemlicka, Alvin: *See*—
Gray, Charles F., Jr.; Meisenburg, Gary L.; and Zemlicka, Alvin, 4,679,682, Cl. 192-21.000.

Zemmrich, Dieter K.: *See*—
Cavicchi, Bruce T.; Dill, Hans G.; and Zemmrich, Dieter K., 4,698,455, Cl. 136-256.000.

Zemp, Georg, to Contraves AG. Temperature regulating apparatus for a laboratory reaction vessel arrangement. 4,667,730, 5-26-87, Cl. 165-14.000.

Zemp, Georg, to Contraves AG. Method for closely regulating the temperature of a laboratory reaction vessel arrangement. 4,671,344, 6-9-87, Cl. 165-2.000.

Zemp, Georg, to Contraves AG. Temperature regulating device for a laboratory reaction vessel arrangement. 4,687,051, 8-18-87, Cl. 165-61.000.

Zemske, Gene B.: *See*—
Boler, Clifford H.; Leake, William W.; Rai, Surinder S.; and Zemske, Gene B., 4,638,187, Cl. 307-451.000.

Zemyan, Susan E.: *See*—
Burns, Hugh D.; Zemyan, Susan E.; Epps, Leon A.; Kramer, Alfred V.; and Dannals, Robert F., 4,638,051, Cl. 534-14.000.

Zen, Mitsuo, to Senju Metal Industry Co., Ltd. Flush type sprinkler head. 4,660,648, 4-28-87, Cl. 169-38.000.

Zen, Sheng T. Closed passage type equi-pressure combustion rotary engine. 4,657,009, 4-14-87, Cl. 123-204.000.

Zenbayashi, Michio; and Sato, Noria, to Toshiba Silicone Co., Ltd. Process for making amino group-containing organosilicon compounds. 4,649,208, 3-10-87, Cl. 556-413.000.

Zenex Corporation: *See*—
Zenkich, Ilias R., 4,687,004, Cl. 128-798.000.

Zeng, Sen: *See*—
Zhang, Yun-xiang; Dai, Xing-yi; Lu, Zhi-kang; and Zeng, Sen, 4,678,847, Cl. 526-206.000.

Zengel, Hans; Eisenhuth, Ludwig; and Bergfeld, Manfred, to AKZO NV. Process for the production of thiazolyl-2-sulphenamides. 4,670,556, 6-2-87, Cl. 544-135.000.

Zengel, Hans G.: *See*—
Kundinger, Ernst F.; Klimesch, Erich; Zengel, Hans G.; and Lasher, Jeffrey D., 4,675,246, Cl. 428-336.000.

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Kundinger, Ernst F.; Klimesch, Erich; Zengel, Hans-Georg; and Lasher, Jeffery D., 4,699,841, Cl. 428-332.000.
Kundinger, Ernst F.; Klimesch, Erich; Zengel, Hans-Georg; and Lasher, Jeffery D., 4,705,720, Cl. 428-332.000.

Zengo, Toshinari: *See*—
Yamada, Koichi; Hiraiwa, Ichiro; Taniguchi, Shin; and Zengo, Toshinari, 4,680,109, Cl. 210-103.000.

Zenhausern, Heinrich. Anchor and climbing rung. 4,660,681, 4-28-87, Cl. 182-90.000.

Zenhausern, Heinrich. Anchor step. 4,702,349, 10-27-87, Cl. 182-90.000.

Zenith Electronics Corporation: *See*—
Adamski, Alfred; DeFranco, Thomas P.; and Dougherty, Lawrence W., 4,710,669, Cl. 313-402.000.
Adler, Robert, 4,642,423, Cl. 178-18.000.
Adler, Robert, 4,645,870, Cl. 178-19.000.
Adler, Robert; and Jarosz, John M., 4,673,918, Cl. 340-365.00P.
Adler, Robert; and Strauss, Paul, 4,692,660, Cl. 313-477.00R.
Adler, Robert, 4,700,176, Cl. 340-365.00R.
Auld, Frederick H., Jr.; and Walker, David L., 4,703,354, Cl. 358-148.000.
Beaumont, Gregory J.; Duval, Casimir J.; Kula, Frank N.; and Tamkin, Michael S., 4,646,159, Cl. 358-254.000.
Bione, Angelo A.; and Sirazi, Semir, 4,707,827, Cl. 370-85.000.
Blacker, Allen P.; and Chiodi, Wayne R., 4,701,678, Cl. 315-382.000.
Blacker, Allen P., Jr.; Christensen, John A.; and Garewal, Khem K. S., 4,704,565, Cl. 315-382.000.
Blanchard, David L.; and Snopko, Paul A., 4,646,133, Cl. 358-11.000.
Borg, Arthur N.; and Bar-Hai, Giora, 4,692,903, Cl. 365-226.000.
Borg, Arthur N., 4,701,753, Cl. 340-731.000.
Brenner, Michael C.; and Fitzgibbon, James J., 4,644,100, Cl. 178-18.000.
Brodzik, Paul E.; and Lostumo, Arthur J., 4,677,538, Cl. 363-126.000.
Campisi, Carl; Kaliszek, Andrew W.; and Klein, Elmer M., 4,663,821, Cl. 29-564.200.
Campisi, Carl; Kilinskis, David C.; and Sorlie, Egil, 4,704,517, Cl. 235-382.000.
Citta, Richard W.; Mutzabaugh, Dennis M.; and Sgrignoli, Gary J., 4,706,283, Cl. 380-12.000.
Citta, Richard W.; Mutzabaugh, Dennis M.; and Sgrignoli, Gary J., 4,706,284, Cl. 380-12.000.
Costello, Louis B., 4,686,614, Cl. 363-17.000.
Cruz, Michael S.; and Vaughter, Harmon P., 4,662,001, Cl. 455-340.000.
Cruz, Michael S.; and Vaughter, Harmon P., 4,677,396, Cl. 331-117.00R.
Dietch, Leonard, 4,680,196, Cl. 427-68.000.
Dietch, Leonard, 4,705,357, Cl. 350-322.000.
Dougherty, Lawrence W.; and Strauss, Paul, 4,686,416, Cl. 313-407.000.
Dougherty, Lawrence W.; and Fendley, James R., 4,710,670, Cl. 313-407.000.
Eilers, Carl G.; Lee, Ronald B.; and Turner, Rudolf, 4,688,246, Cl. 380-9.000.
Fendley, James R., 4,686,429, Cl. 315-368.000.
Fendley, James R., 4,688,079, Cl. 358-10.000.
Fendley, James R., 4,695,761, Cl. 313-407.000.
Fendley, James R.; and Greiner, Siegfried M., 4,716,334, Cl. 313-407.000.
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Forbes, Ronald L.; and Lund, John A., 4,636,853, Cl. 358-121.00
Forbes, Ronald L.; Lund, John A.; and Mann, Harold E., II, 4,654,705, Cl. 380-19.000.
Foster, Mark J., 4,714,919, Cl. 340-726.000.
Fuhs, Eric D., 4,704,604, Cl. 340-700.000.
Gawell, George R.; Steinmetz, Richard J.; and Sutton, Leroy A., 4,645,988, Cl. 315-401.000.
Greiner, Siegfried M.; and Palac, Kazimir, 4,712,041, Cl. 313-407.000.
Jones, Gary A.; Rees, Raymond M.; and Zato, Thomas J., 4,649,428, Cl. 358-188.000.
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Kadlec, Joseph; and Kociolek, Kenneth W., 4,698,681, Cl. 358-168.000.
Kelly, Gordon E.; Krishnamurthy, Gopalan; and Rypkema, Jou N., 4,649,420, Cl. 358-38.000.
Kent, Dallas L., 4,689,766, Cl. 364-900.000.
Kiteley, Terence J.; and Vasavanonda, Sudthichard, 4,645,987, Cl. 315-389.000.
Knowles, Terence J.; Ray, Francis M.; and Shewey, Charles F., 4,710,707, Cl. 324-158.00F.
Konopka, John G., 4,709,320, Cl. 363-56.000.
Krause, Charles A.; Rajaram, Babu; and Watzman, Barry A., 4,703,419, Cl. 364-200.000.
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Zuhbrunner, Heini, to Vasella, Marco, Panel construction element and building construction system employing such construction elements, 4,646,502, 3-3-87, Cl. 52-580.000.

Zuek, Robert R., Jr.: See—
Wise, Rodney M.; and Zuek, Robert R., Jr., 4,657,693, Cl. 252-174.210.

Zieke, Larry M.: See—
Behr, R. Douglas; and Zieke, Larry M., 4,695,954, Cl. 53-551.00.
Behr, Raymond D.; and Zieke, Larry M., 4,701,358, Cl. 428-35.000.

Zielaskiewicz, Stephen M.: See—
Dye, Denver R.; Gee, David J.; Patterson, Richard L.; and Zielaskiewicz, Stephen M., 4,658,245, Cl. 340-683.000.

Zielinksi, Erich: See—
Winkler, Gert; and Zielinksi, Erich, 4,706,543, Cl. 69-38.000.

Zielinski, Albert: *See*—
Jenkins, Jerry V.; Sloan, Haskell F.; Frenkel, Robert L.; and Zielinski, Albert, 4,707,251, Cl. 209-569.000.

Zielesch, Erich, to Rheinmetall GmbH. Counter recoil mechanism, preferably for an artillery weapon. 4,648,306, 3-10-87, Cl. 89-43.020.

Zielinski, Erich, and Heckenbach, Theo, to Rheinmetall GmbH. Cannon loader for separate charge and projectile. 4,706,544, 11-17-87, Cl. 10-46.000.

Zielinski, Erich: *See*—
Calver, John G.; Pearce, Phillip W.; and Zielinski, Erich, 4,691,265, Cl. 361-166.000.
Metz, Josef; Pehker, Manfred; and Zielinski, Erich, 4,690,031, Cl. 89-36.130.

Zielinski, Larry E.: *See*—
Mennie, John; Troglio, Donald L.; and Zielinski, Larry E., 4,713,926, Cl. 53-443.000.

Zielinski, Paul E.: *See*—
Fox, Lester A.; and Zielinski, Paul E., 4,711,066, Cl. 53-436.000.

Zielke, Klaus: *See*—
Ulrich, Heinrich; and Zielke, Klaus, 4,658,809, Cl. 128/92.07YM.

Zielske, Alfred G., to Clorox Company, The. Method for preparing 1,4-diaminoanthraquinones and intermediates therefor. 4,661,293, 4-28-87, Cl. 260/377.000.

Ziemann, Heinz; and Mohrmann, Karl Heinrich, to Bayer Aktiengesellschaft. Substituted 5-cycloalkyl-2,2-dimethyl-pentan-3-ones. 4,661,640, 4-28-87, Cl. 568/308.000.

Ziemann, Heinz: *See*—
Hack, Manfred; Salzburg, Herbert; and Ziemann, Heinz, 4,642,344, Cl. 544/196.000.

Ziemba, Anthony: Deer hunter's tree seat. 4,705,143, 11-10-87, Cl. 182/187.000.

Ziemba, Richard T.: *See*—
Pettegu, Robert; Dix, Joseph; McHugh, Thomas O.; Sibley, Lincoln L., Jr.; Ziemba, Richard T.; and Forrester, Victor J., 4,700,808, Cl. 89-11.000.

Ziemek, Gerhard; Eckhak, Herbert; and Tropke, Klaus, to Kabelmetal Electro Gesellschaft mit beschrankter Haftung. Method and apparatus for the corrugating of metal tubes. 4,663,954, 5-12-87, Cl. 72-77.000.

Ziemek, Gerhard; and Schatz, Friedrich, to Kabelmetal Electro Gesellschaft mit beschrankter Haftung. Tube having an adhering consisting of a plurality of wires. 4,674,543, 6-23-87, Cl. 138-153.000.

Ziemelis, Mario J.: *See*—
Lo, Peter Y. K.; Ziemelis, Mario J.; and Varaprath, Padmakumari J., 4,698,406, Cl. 528-12.000.

Ziemer, Wolf; Neubert, Fritz; and Holle, Wilhelm, to Flakt AB. Suspendable modular frame arrangement for clean room ceilings having a fluid seal. 4,710,208, 12-1-87, Cl. 55-355.000.

Ziemek, Eugene A., to First Brands Corporation, The. Low pH-buffered silicon/silicate antifreeze concentrates. 4,676,919, 6-30-87, Cl. 252-75.000.

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Frischmann, Albert; Mermis, Kurt; and Zierenen, Peter, 4,676,406, Cl. 222-136.000.

Zieren, Victor: *See*—
Kordi, Srdjan; Zieren, Victor; and Middelhoek, Simon, 4,694,248, Cl. 324-252.000.

Zierenberg, Bernd; and Gupte, Arun R., to Boehringer Ingelheim KG. Divisible pharmaceutical tablet with delayed active ingredient release. 4,663,131, 7-28-87, Cl. 424-467.000.

Zierhut, Hermann, to Richard Hirschmann Radiotechnisches Werk. Motion detector. 4,645,930, 2-24-87, Cl. 250-342.000.

Zierhut, Hermann, to Richard Hirschmann Radiotechnisches Werk. Alarm apparatus for spatial surveillance. 4,670,655, 6-2-87, Cl. 250-342.000.

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Zierick Manufacturing Corporation: *See*—
Legrady, Janos, 4,688,866, Cl. 439-78.000.

Zierler, Reinhard, to Voest-Alpine Aktiengesellschaft. Movable cannon. 4,644,844, 2-24-87, Cl. 89-40.000.

Zierler, Reinhard, to Voest-Alpine Aktiengesellschaft. Gun with recoil and counter recoil means. 4,656,921, 4-14-87, Cl. 89-43.010.

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Zierpka, Gunter. Advancement device for step-wise advancement of work. 4,650,063, 3-17-87, Cl. 198-621.000.

Zierse, Lowell B.: *See*—
Counter, Louis F.; Born, Richard C.; Walters, LeRoy M.; Zierse, Lowell B.; and Searing, Lawrence G., 4,714,917, Cl. 340-679.000.

Zierse, William J., Jr., to Pete Rickard, Inc. Capillary feed lure dispensing apparatus. 4,667,430, 5-26-87, Cl. 43-1.000.

Ziesman, Craig A.: *See*—
Brody, George C.; Ma, Francis K.; Nissen, Robert C.; Taylor, Theodore; Patel, Raju; and Ziesman, Craig A., 4,670,899, Cl. 379-60.000.

Ziesse, Norman G.: *See*—
Bowman, Wayne C.; Magalhaes, Frank M.; Sutter, Weyman R., Jr.; and Ziesse, Norman G., 4,685,041, Cl. 363-40.000.

Zievers, James F.; and Eggerstedt, Paul, to Industrial Filter & Pump Mfg. Co. Desalination system. 4,664,752, 5-12-87, Cl. 203-10.000.

Zievers, James F.; and Eggerstedt, Paul, to Industrial Filter & Pump Mfg. Co. Mounting arrangement for a tube-type filter element. 4,713,174, 12-15-87, Cl. 210-233.000.

Ziff-Davis: *See*—
Holdredge, Ernest C., Jr., 4,653,649, Cl. 211-41.000.

Ziggy Systems, Inc.: *See*—
Hostetler, Eldon, 4,637,345, Cl. 119-72.500.
Hostetler, Eldon, 4,656,970, Cl. 119-75.000.
Hostetler, Eldon, 4,709,658, Cl. 119-18.000.

Zigman, Donald J. Mobile terminal mounting stand. 4,640,199, 2-3-87, Cl. 108-6.000.

Zigman, Donald J. Footwear hanger. 4,669,615, 6-2-87, Cl. 211-34.000.

Zijlstra, Hinne, to U.S. Philips Corporation. Nuclear magnetic resonance apparatus with a magnet of permanent magnetic material. 4,639,673, 1-27-87, Cl. 324-319.000.

Zijlstra, Hinne, to U.S. Philips Corporation. Nuclear magnetic resonance apparatus with a permanent magnet. 4,695,802, 9-22-87, Cl. 324-319.000.

Zika-Plastik GmbH: *See*—
Zitt, Volker, 4,669,587, Cl. 190-109.000.

Zikmanis, Harijs Prezlock, James; and Lahaski, Paul, to Cascade Industries, Inc. Wall system for swimming pools. 4,635,304, 1-13-87, Cl. 4-506.000.

Zilbermann, Andre H., to Brandt Engineering Company. Method and apparatus for multi-zone air distribution system. 4,633,937, 1-6-87, Cl. 165-22.000.

Zilg, Harald, to Behringwerke Aktiengesellschaft. Process for the stabilization of hematin. 4,645,670, 2-24-87, Cl. 424-101.000.

Zilinskas, Gene. Racket having unique string mount. 4,681,319, 7-21-87, Cl. 273-73.00D.

Ziller, Helmut: *See*—
Durban, Peter H.; and Ziller, Helmut, 4,633,625, Cl. 52-80.000.

Ziller, Josef, to Schenk Filterbau Gesellschaft mit beschrankter Haftung. Rotary disk filter element. 4,710,294, 12-1-87, Cl. 210-232.000.

Zillig, Robert G.: *See*—
Hoskins, John T.; Zillig, Steven R.; and Caroll, James E., 4,640,534, Cl. 285-158.000.

Zillig, Steven R.: *See*—
Hoskins, John T.; Zillig, Steven R.; and Caroll, James E., 4,640,534, Cl. 285-158.000.

Zillikens, Josef: *See*—
Steudle, Ernst; Zillikens, Josef; and Boting, Gerd, 4,706,495, Cl. 73-64.300.

Zillmer, Adalbert: *See*—
Hartkopf, Hans O.; and Zillmer, Adalbert, 4,641,243, Cl. 364-436.000.

Zillmer, Roger C.: *See*—
Sandiford, Burton B.; and Zillmer, Roger C., 4,643,255, Cl. 166-295.000.
Sandiford, Burton B.; and Zillmer, Roger C., 4,673,038, Cl. 166-270.000.

Zilly, Gunter: *See*—
Wunsch, Steffen; Zilly, Gunter; and Schneider, Helmut, 4,683,659, Cl. 30-381.000.

Zilm, Kurt W.: *See*—
Wetekamp, Daniel P.; Biclecki, Anthony; Zas, David B.; Zilm, Kurt W.; and Pines, Alexander, 4,710,714, Cl. 324-307.000.

Zilog, Inc.: *See*—
Freeman, Rose H., 4,670,749, Cl. 340-825.850.
Heninger, Andrew G., 4,648,034, Cl. 364-200.000.
Williams, Brady G., 4,651,237, Cl. 360-48.000.

Zils, James A.; and Markovic, Radoslav, to RB & W Corporation. Method and apparatus for loading articles. 4,686,815, 8-18-87, Cl. 53-469.000.

Zils, James A.: *See*—
Pamer, W. Richard; and Zils, James A., 4,708,556, Cl. 411-179.000.
Pamer, Walter R.; Zils, James A.; and Nichols, William E., 4,647,264, Cl. 411-338.000.

Zilske, Wolfgang: *See*—
Kuhn, Werner; and Zilske, Wolfgang, 4,634,505, Cl. 204-44.300.
Kuhn, Werner; and Zilske, Wolfgang, 4,659,438, Cl. 204-34.000.

Zima, Lawrence M. Paper spool support and feeding means. 4,655,409, 4-7-87, Cl. 242-55.200.

Zimany, Edward J., Jr.: *See*—
Tompsett, Michael F.; and Zimany, Edward J., Jr., 4,634,997, Cl. 330-284.000.

Zimberg, Walter M., to Occidental Chemical Corporation. Process for removing phosphorus from industrial waste water. 4,659,154, 4-25-87, Cl. 210-667.000.

ZIMI Konstruktions- und Produktionsgesellschaft für technisches Know-How GmbH: *See*—
Iradjpanah, Iradj, 4,646,919, Cl. 206-525.000.

Zimm, Carl B.: *See*—
Barclay, John A.; Stewart, Walter F.; Pysznyj, F. Coyne; Zimm, Carl B.; and Parsons, John P., 4,702,090, Cl. 62-3.000.

Zimmer, C. D.: *See*—
Laing, John R.; Zimmer, C. D.; Manar, Deepak R.; and Williams, Meurig W., 4,678,734, Cl. 430-137.000.

Zimmer, Ernst, to Kuka Schweissanlagen & Roboter GmbH. Manipulator head assembly. 4,657,472, 4-14-87, Cl. 414-735.000.

Zimmer, Ernst, to Kuka Schweissanlagen & Roboter GmbH. Manipulator head assembly. 4,662,815, 5-5-87, Cl. 414-735.000.

Zimmer, Ernst, to Kuka Schweissanlagen & Roboter GmbH. Rack drive. 4,704,913, 11-10-87, Cl. 74-89.170.

Zimmer, Ernst, to Kuka Schweissanlagen & Roboter GmbH. Protective device for guide track between two relatively movable machine parts. 4,706,510, 11-17-87, Cl. 74-89.210.

Zimmer, Ernst; and Kikut, Botho, to KUKA Schweissanlagen & Roboter GmbH. Device for the automatic gripping and releasing of a tool holder in a manipulator. 4,710,093, 12-1-87, Cl. 414-730.000.
Zimmer, Ernst: *See*—
Hartmann, Georg; Wiedemann, Kurt; and Zimmer, Ernst, 4,705,243, Cl. 248-51.000.
Zimmer, Gabriele, to pfm, Plastik fur die Medizin GmbH. Catheter. 4,692,155, 9-8-87, Cl. 604-177.000.
Zimmer, Guenter: *See*—
Herre, Emil; Herre, Gerd; Zimmer, Guenter; and Cepin, Hermann, 4,702,461, Cl. 266-216.000.
Zimmer, Heinrich; and May, Fritz, to Maschinenfabrik Goebel GmbH. Dampening system for offset printing press. 4,671,175, 6-9-87, Cl. 101-148.000.
Zimmer, Herbert, to Dornier GmbH. Transverse driving bodies, particularly airplane wings. 4,700,911, 10-20-87, Cl. 244-35.00R.
Zimmer, Inc.: *See*—
Farling, Gene M.; Parr, Jack E.; and Zolman, Arden R., 4,660,755, Cl. 228-178.000.
Lower, Jerry L., 4,640,271, Cl. 128-92.0YF.
Webb, John D., Jr.; Hori, Roy Y.; and Simpson, George E., 4,714,470, Cl. 623-18.000.
Zimmer, Johannes. Nozzle assembly for applying liquid to a moving web. 4,665,723, 5-19-87, Cl. 68-200.000.
Zimmer, Johannes: *See*—
Gasper, Reinhold; Hassler, Peter; and Zimmer, Johannes, 4,649,816, Cl. 101-126.000.
Zimmer, John J.; and Soltesz, Richard G., to Westinghouse Electric Corp. Remote probe positioning apparatus. 4,638,667, 1-27-87, Cl. 73-432.100.
Zimmer, Mark D., to Halliburton Company. Automatic gain control of digitized full trace acoustic signal in a borehole. 4,658,383, 4-14-87, Cl. 367-29.000.
Zimmer, Mark D., to Halliburton Company. Simultaneous digitizing apparatus for an acoustic tool. 4,684,947, 8-4-87, Cl. 340-858.000.
Zimmer, Richard: *See*—
Burckhardt, Manfred; and Zimmer, Richard, 4,702,337, Cl. 180-197.000.
Zimmerer, John L.: *See*—
Luerken, Adolf; Cannistra, John S.; Zimmerer, John L.; and Pilatowicz, Edward J., 4,644,606, Cl. 15-330.000.
Zimmerer, Roger E., to Procter & Gamble Company, The. Disposable absorbent articles. 4,657,537, 4-14-87, Cl. 604-360.000.
Zimmerli, Robert H.; and Lim, Alexander T., to Carrier Corporation. Tube expanding and grooving tool and method. 4,646,548, 3-3-87, Cl. 72-68.000.
Zimmerman, Bernd; and Chamberlain, John, to Siecor Corporation. Fiber optic cable. 4,695,128, 9-22-87, Cl. 350-96.230.
Zimmerman, Carol J., to Exxon Production Research Company. Method for determining the position of a subterranean reflector from a traveltime curve. 4,706,223, 11-10-87, Cl. 367-38.000.
Zimmerman, Danny. Thermostatically controlled electrically heated soldering bit. 4,687,903, 8-18-87, Cl. 219-241.000.
Zimmerman, Donald A., to Tot-Safe, Inc. Infant harness or the like. 4,666,017, 5-19-87, Cl. 182-3.000.
Zimmerman, Donna F.: *See*—
Hay, James V.; Wexler, Barry A.; and Zimmerman, Donna F., 4,666,501, Cl. 71-90.000.
Zimmerman, Garyx; and Dickenson, Donald E. Sweetener composition and method. 4,686,107, 8-11-87, Cl. 426-548.000.
Zimmerman, Harry K.: *See*—
Studt, William L.; Zimmerman, Harry K.; and Dodson, Stuart A., 4,707,478, Cl. 514-580.000.
Zimmerman, Harry M. Pipe slip joint system. 4,687,232, 8-18-87, Cl. 285-31.000.
Zimmerman, Horst: *See*—
Million, Karl; and Zimmerman, Horst, 4,671,448, Cl. 228-119.000.
Zimmerman, Huguette; Vincent, Jean; and Mangin, Pierre, to BP Chemicals Limited. Elastomeric copolymers of ethylene and propylene, the production and uses thereof. 4,677,172, 6-30-87, Cl. 526-159.000.
Zimmerman, John D., to Bunn-O-Matic Corporation. Brewing funnel with screen filter assembly. 4,642,190, 2-10-87, Cl. 210-464.000.
Zimmerman, John M.; Noren, Gerry K.; and Bishop, Timothy E., to DeSoto, Inc. Ultraviolet curable optical glass fiber coatings from acrylate terminated, end-branched polyurethane polyurea oligomers. 4,690,501, 9-1-87, Cl. 350-96.290.
Zimmerman, John M.; and Bishop, Timothy E., to DeSoto, Inc. Ultraviolet curable optical glass fiber coatings from acrylate terminated, end-branched polyurethane polyurea oligomers. 4,690,502, 9-1-87, Cl. 350-96.290.
Zimmerman, Joseph, to Du Pont de Nemours, E. I., and Company. Process of making high tenacity as-spun anisotropic melt fibers. 4,699,746, 10-13-87, Cl. 264-211.150.
Zimmerman, Kenneth A.: *See*—
Desmond, John P.; Ford, Douglas W.; Fossey, Michael E.; Stanbro, Michael; and Zimmerman, Kenneth A., 4,698,785, Cl. 364-900.000.
Zimmerman, Matt J., to Tektronix, Inc. Line frequency switching power supply. 4,683,415, 7-28-87, Cl. 323-282.000.
Zimmerman, Morris: *See*—
Finke, Paul E.; Doherty, James B.; Zimmerman, Morris; Ashe, Bonnie M.; and Dorn, Conrad P., 4,711,886, Cl. 514-195.000.
Zimmerman, Norman B.: *See*—
Riccitiello, Salvatore R.; Smith, Marnell; Goldstein, Howard E.; and Zimmerman, Norman B., 4,713,275, Cl. 428-76.000.
Zimmerman, Patrick G.: *See*—
Klingen, Jurgen; and Zimmerman, Patrick G., 4,710,536, Cl. 524-493.000.
Zimmerman, Robert: *See*—
Shen, Nelson M.; and Zimmerman, Robert, 4,634,274, Cl. 356-73.100.
Zimmerman, Robert L.; and Vanderpool, Steven H., to Texaco Inc. Catalytic method for the manufacture of N,N'-dimethylpiperazine. 4,698,428, 10-6-87, Cl. 544-404.000.
Zimmerman, Robert L.: *See*—
Vanderpool, Steven H.; and Zimmerman, Robert L., 4,647,664, Cl. 544-178.000.
Zimmerman, Roger W.: *See*—
Kellogg, Robert L.; Zimmerman, Roger W.; and Bryan, Carney J., 4,708,073, Cl. 112-262.300.
Zimmerman, S. Mort. Laser display of an electronically generated image signal. 4,654,716, 3-31-87, Cl. 358-237.000.
Zimmerman, Sanford S.; and Syarto, Louis W., to Westflex International Corporation. Machining center having an inclinable vacuum-holding worktable. 4,705,438, 11-10-87, Cl. 409-132.000.
Zimmerman, Sheldon B.: *See*—
Chaiet, Louis; Zimmerman, Sheldon B.; Monaghan, Richard L.; and Martin, Maria L., 4,670,466, Cl. 514-547.000.
Wilson, Kenneth E.; and Zimmerman, Sheldon B., 4,656,038, Cl. 424-115.000.
Wilson, Kenneth E.; Monaghan, Richard L.; DeRiso, Cheryl; Zimmerman, Sheldon B.; Hensens, Otto D.; Flor, James E.; Del Val, Sagrario M.; and Fernandez, Maria I. M., 4,681,846, Cl. 435-124.000.
Zimmerman, Terrence K.: *See*—
Capowski, Robert S.; and Zimmerman, Terrence K., 4,675,812, Cl. 364-200.000.
Zimmerman, Theodore S.; and Fulcher, Carol A., to Scripps Clinic and Research Foundation. Treatment of Factor VIII inhibitors. 4,649,132, 3-10-87, Cl. 514-12.000.
Zimmerman, Theodore S.; and Fulcher, Carol A., to Scripps Clinic & Research Foundation. New factor VIII coagulant polypeptides. 4,657,894, 4-14-87, Cl. 514-21.000.
Zimmerman, Theodore S.; Ruggeri, Zaverio M.; and Houghten, Richard, to Scripps Clinic and Research Foundation. Platelet binding inhibitors. 4,683,291, 7-28-87, Cl. 530-324.000.
Zimmerman, Tony J. Vehicle traction attachment. 4,697,659, 10-6-87, Cl. 180-15.000.
Zimmerman, William T., to Du Pont de Nemours, E. I., and Company. Herbicidal sulfonamides. 4,643,761, 2-17-87, Cl. 71-92.000.
Zimmerman, William T.: *See*—
Levitt, George; and Zimmerman, William T., 4,680,053, Cl. 71-93.000.
Zimmermann, Anso, to Rotpunkt Dr. Anso Zimmermann. Insulating jug or bottle having a closing member carrying a sealing member. 4,658,973, 4-21-87, Cl. 215-13.00R.
Zimmermann, Anso, to Rotpunkt Dr. Anso Zimmermann. Container or jug with a detachable swivel lid. 4,669,631, 6-2-87, Cl. 220-341.000.
Zimmermann, Anso, to Rotpunkt Dr. Anso Zimmermann. Insulating flask for liquids. 4,676,385, 6-30-87, Cl. 215-1.00C.
Zimmermann, Anzo, to Rotpunkt Dr. Anso Zimmermann. Insulating jug of which the opening is closable by a closure member. 4,648,535, 3-10-87, Cl. 222-472.000.
Zimmermann, Craig E.; Rustad, Stanley C.; and Gordon, Loren J., to General Mills, Inc. Assembly for liquid recovery from aseptically packaged beverage. 4,662,411, 5-5-87, Cl. 141-66.000.
Zimmermann, E. Harald: *See*—
Frischmann, Albert; Rieger, Johannes; Mermi, Kurt; Kistner, Herbert; and Zimmermann, E. Harald, 4,702,654, Cl. 411-31.000.
Zimmermann, Eberhard; and Stroetmann, Michael. Resorpsive sheet material for closing and healing wounds and method of making the same. 4,683,142, 7-28-87, Cl. 427-2.000.
Zimmermann, Egbert; and Nutzel, Oswald, to Dyckerhoff & Widmann Aktiengesellschaft. Support for a tension tie member, such as a diagonal cable in a stayed girder bridge. 4,648,147, 3-10-87, Cl. 14-21.000.
Zimmermann, Egbert: *See*—
Nutzel, Oswald; and Zimmermann, Egbert, 4,648,146, Cl. 14-21.000.
Zimmermann, Gert, to F. Zimmermann & Co. Device for separating single coins. 4,657,035, 4-14-87, Cl. 133-5.00R.
Zimmermann, Gert, to F. Zimmermann & Co. Device for counting and sorting coins belonging to a set of coins. 4,681,204, 7-21-87, Cl. 194-317.000.
Zimmermann, Gunther: *See*—
Wehle, Anton; Unrath, Dieter; and Zimmermann, Gunther, 4,693,005, Cl. 30-383.000.
Zimmermann, Hans, to BBC Brown, Boveri & Company, Limited. Stator laminated core attachment in an electrical machine. 4,663,553, 5-5-87, Cl. 310-258.000.
Zimmermann, Herbert: *See*—
Modic, Fedor; Leibfried, Wolfgang; Nitsch, Manfred; Spitzenberger, Kurt; and Zimmermann, Herbert, 4,640,739, Cl. 156-659.100.
Zimmermann, Jeffery D.: *See*—
Bills, Randall C.; Bumgardner, Teddy E.; Monroe, Lusbert L.; and Zimmermann, Jeffery D., 4,708,222, Cl. 187-1.00R.
Zimmermann, Josef: *See*—
Dettbarn, Hans-Jurgen; and Zimmermann, Josef, 4,642,095, Cl. 604-72.000.

Zimmermann, Klaus; Thomas, Michael J.; and Bailey, Norman R., to General Motors Corporation. Fastening device. 4,635,498, 1-13-87, Cl. 74-501.00R.

Zimmermann, Klaus-Dieter: *See*—
Lersmacher, Bernhard; Poque, Paul-Heinz; and Zimmermann, Klaus-Dieter. 4,653,913, Cl. 356-312.000.

Zimmermann, Marius: *See*—
Bussiere, Guy; Zimmermann, Marius; and Huchette, Michel. 4,680,180, Cl. 426-16.000.

Zimmermann, Markus: *See*—
Ostermayer, Franz; and Zimmermann, Markus. 4,636,511, Cl. 514-311.000.

Zimmermann, Micha, to Newport Corporation. Mounting systems for objects and optical components. 4,690,507, 9-1-87, Cl. 350-321.000.

Zimmermann, Otto. Rotary piston internal combustion engine with water injection. 4,696,268, 9-29-87, Cl. 123-203.000.

Zimmermann, Philip A.; and Van Lennep, William B., to Controlonics Corporation. Surveillance microphone holder. 4,700,397, 10-13-87, Cl. 381-169.000.

Zimmermann, Rainer: *See*—
Roch, Josef; Heckel, Armin; Nickl, Josef; Muller, Erich; Narr, Berthold; Zimmermann, Rainer; and Wiesenberger, Johannes. 4,714,698, Cl. 514-212.000.

Zimmermann, Robert W.: *See*—
Harmon, Charles H.; Ward, Thomas F.; and Zimmermann, Robert W., 4,696,402, Cl. 206-602.000.

Zimmermann, Stephen G.: *See*—
Martin, Peter; Wyatt, Avis N., Jr.; Alonso, Hector; Rowe, Norman R.; Southard, Robert S.; and Zimmermann, Stephen G., 4,657,144, Cl. 209-546.000.

Zimmermann, Ulrich: *See*—
Arnold, William M.; and Zimmermann, Ulrich, 4,634,669, Cl. 435-173.000.

Zimmermann, Volker: *See*—
Bohg, Armin; Matthaei, Horst D.; and Zimmermann, Volker, 4,664,543, Cl. 400-174.000.

Zimmermann, William A.: *See*—
Kelly, John E.; Jones, Don C.; Tuck, Frederick R.; Zimmermann, William A.; and Clark, Kenneth R., 4,710,031, Cl. 356-440.000.

Zimmermann, Wolfgang: *See*—
Muller, Albrecht; and Zimmermann, Wolfgang, 4,656,216, Cl. 524-381.000.

Zimmern, Bernard. Refrigeration system with a centrifugal economizer. 4,691,533, 9-8-87, Cl. 62-512.000.

Zimmerschied, Alan B.: *See*—
Wilhelm, Earl E.; and Zimmerschied, Alan B., 4,658,727, Cl. 102-494.000.

Zimmet, Arthur L.: *See*—
Greene, Franklin R.; Zimmet, Arthur L.; Waye, Jerome D.; and Petis, Edward A., 4,643,197, Cl. 128-762.000.

Zimonis, Joseph P.: *See*—
Hovan, Edward J.; and Zimonis, Joseph P., 4,645,415, Cl. 415-115.000.

Zimpro Inc.: *See*—
Garzonetti, Gary A., 4,693,831, Cl. 210-744.000.
Mordorski, Carol J., 4,693,827, Cl. 210-614.000.

Zimring, Bruce: *See*—
Peltz, Hanns-Heinz, 4,657,068, Cl. 165-47.000.

Zimzik, Henry. Utilization of wool grease as well as drilling, grinding, or cutting emulsions. 4,643,837, 2-17-87, Cl. 252-8.511.

Zinck, Eugen. Apparatus and process for treating soil used for cultivation. 4,658,738, 4-21-87, Cl. 111-7.200.

Zinck, Eugen. Process and device for loosening agriculturally used soil. 4,660,480, 4-28-87, Cl. 111-7.000.

Zincone, Robert; and Fradenburgh, Evan A., to United Technologies Corporation. Gust detection system. 4,652,122, 3-24-87, Cl. 356-28.500.

Zindler, Hugh A.; and Pollow, Sheldon D. Brake released clutch mechanism. 4,669,590, 6-2-87, Cl. 192-17.00R.

Zindler, Hugh A., to Valley Industries, Inc. Clutch brake assembly. 4,705,148, 11-10-87, Cl. 192-8.00R.

Zine, Anthony R., Jr.: *See*—
Carroll, Richard J.; Luderer, Albert A.; Smith, Ward C.; and Zine, Anthony R., Jr., 4,640,785, Cl. 210-782.000.

Ziner, Carol: *See*—
Rosenberg, Avraham; and Ziner, Carol, 4,715,282, Cl. 102-227.000.

Zinger, Joanne: *See*—
Zinger, John E.; and Zinger, Joanne, 4,665,933, Cl. 132-9.000.

Zinger, John E.; and Zinger, Joanne. Hair color tiers. 4,665,933, 5-19-87, Cl. 132-9.000.

Zinger, William H.: *See*—
Irzinski, Edward P.; Krill, Jerry A.; and Zinger, William H., 4,679,008, Cl. 333-21.00R.

Zingg, Walter, to Asulab S.A. Piezoelectric oscillator. 4,652,787, 3-24-87, Cl. 310-344.000.

Zingg, Warren M., to Dowell Schlumberger Incorporated. Choke flow bean. 4,644,974, 2-24-87, Cl. 138-44.000.

Zingg, Warren M.; and Welch, Larry D., to Dowell Schlumberger Incorporated. High pressure choke assembly. 4,662,401, 5-5-87, Cl. 137-824.000.

Zingher, Arthur R.: *See*—
Flint, Ephraim B.; Gruber, Peter A.; Marks, Ronald F.; Olive, Graham; and Zingher, Arthur R., 4,685,606, Cl. 228-123.000.

Zingher, Oded, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Data input unit and method for printing machines. 4,639,881, 1-27-87, Cl. 364-521.000.

Zingher, Oded, to M.A.N.-Roland Druckmaschinen Aktiengesellschaft. Arrangement for determination and evaluation of ink measuring strips on a printed sheet on a measuring table by a densitometer. 4,660,158, 4-21-87, Cl. 364-523.000.

Zingher, Oded: *See*—
Dorn, Alfred; Schramm, Peter; Schuhmann, Siegfried; and Zingher, Oded, 4,648,048, Cl. 364-526.000.

Zingler, Christian J.; and Bonner, James D., to Allied Corporation. Floating gang rotary slitting device and method. 4,643,058, 2-17-87, Cl. 83-23.000.

Zini, Pierangelo: *See*—
Bargiotti, Alberto; Zini, Pierangelo; Penco, Sergio; and Giuliani, Fernando, 4,672,057, Cl. 514-34.000.

Zink, Franz, to Voest-Alpine Aktiengesellschaft. Cone crusher. 4,664,318, 5-12-87, Cl. 241-37.000.

Zink, Leonard: *See*—
Braverman, Milton; and Zink, Leonard, 4,673,086, Cl. 206-538.000.

Zink, Rudolf; and Fletcher, Ian J., to Ciba-Geigy Corporation. Aliphatic bridged chromogenic bisquinazolines substituted with phenylamine or phenyl-containing heterobicyclic radicals. 4,668,966, 5-26-87, Cl. 346-218.000.

Zink, Rudolf; and Fletcher, Ian J., to Ciba-Geigy Corporation. Recording material employing chromogenic bisquinazolines. 4,705,775, 11-10-87, Cl. 503-218.000.

Zinke, Horst: *See*—
Muller, Horst; Zinke, Horst; and Wehner, Wolfgang, 4,639,482, Cl. 524-137.000.

Zinkiewicz, Lawrence M.: *See*—
Figueroa, Luis; Niesen, Joseph W.; Zinkiewicz, Lawrence M.; and Morrison, Charles B., 4,634,928, Cl. 313-499.000.

Zinkin, Harold. Elastic tension exercising apparatus with multiple pass cable and pulley. 4,685,670, 8-11-87, Cl. 272-136.000.

Zinn, Alfred W., to Singer Company, The. Digital frequency multiplier. 4,669,099, 5-26-87, Cl. 377-47.000.

Zinn, Ben T.; and Daniel, Brady R., to Sonotech, Inc. Method and apparatus for conducting a process in a pulsating environment. 4,699,588, 10-13-87, Cl. 432-58.000.

Zinn, Frank R., to Bingham & Taylor. Undercover valve cover assembly and valve support. 4,691,733, 9-8-87, Cl. 137-364.000.

Zinnbauer, Gerald, to Kardon Industries. Tamper resistant cap. 4,706,828, 11-17-87, Cl. 215-246.000.

Zinnen, Hermann A.; and Franczyk, Thad S., to UOP Inc. Process for separating isomers of dinitrotoluene. 4,642,397, 2-10-87, Cl. 568-934.000.

Zinnen, Hermann A.; and Franczyk, Thad S., to UOP Inc. Separation of nitrobenzaldehyde isomers. 4,714,783, 12-22-87, Cl. 568-424.000.

Zinnen, Norbert, to Uniroyal Englebert Reifen GmbH. Vehicle wheel and pneumatic tire assembly having an emergency operation support surface. 4,676,288, 6-30-87, Cl. 152-158.000.

Zinnen, Norbert: *See*—
Poque, Dionysius J.; and Zinnen, Norbert, 4,641,670, Cl. 152-158.000.

Zinonos, George: *See*—
Bonanno, Mario; Zinonos, George; and Trantzas, Constantin, 4,637,407, Cl. 131-175.000.

Zinpro Corporation: *See*—
Abdel-Monem, Mahmoud M., 4,670,269, Cl. 426-74.000.
Abdel-Monem, Mahmoud M., 4,678,854, Cl. 556-149.000.

Zinser, Richard L., Jr.; Silverstein, Seth D.; and Koch, Steven R., to General Electric Company. Two-input crosstalk-resistant adaptive noise canceller. 4,649,505, 3-10-87, Cl. 379-411.000.

Zinser Textilmaschinen GmbH: *See*—
Bothner, Jakob, 4,646,390, Cl. 19-159.00R.
Dinkelmann, Friedrich, 4,703,618, Cl. 57-276.000.
Dupper, Walter; Emberger, Roland; Hack, Kurt; Lattner, Manfred; Nickolay, Helmut; Riedel, Karl; and Schollhammer, Richard, 4,635,321, Cl. 19-0.250.
Junginger, Helmut; Wolf, Horst; and Jager, Wolfgang, 4,644,256, Cl. 318-309.000.
Lattner, Manfred, 4,644,609, Cl. 19-244.000.
Lattner, Manfred, 4,656,695, Cl. 19-236.000.
Meissner, Werner; and Schollhammer, Richard, 4,656,822, Cl. 57-81.000.
Nickolay, Helmut; Hack, Kurt; Lattner, Manfred; Meissner, Werner; and Schollhammer, Richard, 4,676,056, Cl. 57-81.000.
Rohner, Joachim, 4,669,259, Cl. 57-305.000.
Wolf, Horst, 4,635,431, Cl. 57-105.000.
Wolf, Horst, 4,646,391, Cl. 19-258.000.
Wolf, Horst, 4,679,389, Cl. 57-304.000.
Wolf, Horst, 4,691,508, Cl. 57-78.000.
Wolf, Horst, 4,694,643, Cl. 57-100.000.
Wolf, Horst; and Blosl, Karl, 4,699,208, Cl. 165-47.000.

Zinssmeister, Axel: *See*—
Muller, Richard; Leis, Roland; and Zinssmeister, Axel, 4,711,189, Cl. 112-121.120.

Ziogas, Phoivos D.: *See*—
Huynh, Anh N.; and Ziogas, Phoivos D., 4,680,694, Cl. 363-136.000.
Huynh, Anh N.; and Ziogas, Phoivos D., 4,682,266, Cl. 361-235.000.
Huynh, Anh N.; and Ziogas, Phoivos D., 4,715,220, Cl. 422-186.160.

Ziolko, Eric F.: *See*—
Bright, Michael W.; Ziolko, Eric F.; and Wilson, Alan L., 4,667,327, Cl. 371-47.000.

Ziolkowski, Andrew: *See*—
Whiteford, Carlton, 4,688,851, Cl. 297-313.000.
Ziolkowski, Antoni M. Scaling of sound source signatures in underwater seismic exploration. 4,644,507, 2-17-87, Cl. 367-23.000.
Ziolkowski, Christopher J.: *See*—
Rush, William F.; Huebler, James E.; and Ziolkowski, Christopher J., 4,646,787, Cl. 138-98.000.
Ziolkowski, Jurgen, to Jurid Werke. Support plate for a friction lining of a disc brake. 4,685,543, 8-11-87, Cl. 188-73.100.
Zion Foundation: *See*—
Capel, Ifor D., 4,646,744, Cl. 128-423.00R.
Zipf, Eckart; Arteon, Marcel; and Verde, Patric, to Dr. Ing. Ernst Haeussler. Coupler for hanging precast concrete panels from a hoist. 4,703,595, 11-3-87, Cl. 52-125.400.
Ziph, Benjamin: *See*—
Meijer, Roelf J.; and Ziph, Benjamin, 4,703,796, Cl. 165-104.260.
Meijer, Roelf J.; and Ziph, Benjamin, 4,715,183, Cl. 60-524.000.
Zipp, Adam: *See*—
Ismail, Ibrahim A.; Hemmes, Paul; Skarstedt, Mark T.; and Zipp, Adam, 4,649,121, Cl. 436-14.000.
ismail, Ibrahim A.; Hemmes, Paul; Skarstedt, Mark T.; and Zipp, Adam, 4,683,209, Cl. 436-14.000.
Zipperian, Donald E., to Deister Concentrator Company, The. Floatation apparatus for concentration of minerals from high water content aqueous slurries. 4,639,313, 1-27-87, Cl. 209-170.000.
Zipperle, Kevin A.: *See*—
Jewell, J. N.; Korte, K. R.; Marshall, R. H.; and Zipperle, Kevin A., 4,706,691, Cl. 131-300.000.
Zirilli, Michele D., to Xerox Corporation. Front air knife improvement for a top vacuum corrugation feeder. 4,699,369, 10-13-87, Cl. 271-94.000.
Zirk, Elisabeth: *See*—
Olschewski, Armin; Bauer, Bernhard; Zirk, Elisabeth; and Heemskerk, Rut, 4,637,740, Cl. 384-425.000.
Olschewski, Armin; Bauer, Bernhard; and Zirk, Elisabeth, 4,637,806, Cl. 464-130.000.
Olschewski, Armin; Bauer, Bernhard; and Zirk, Elisabeth, 4,645,474, Cl. 464-131.000.
Olschewski, Armin; Bauer, Bernhard; and Zirk, Elisabeth, 4,653,936, Cl. 384-484.000.
Zirk, Wolfgang, to Fichtel & Sachs AG. Mechanical system comprising two faces movable with respect to each other, and a lubricant therebetween. 4,643,407, 2-17-87, Cl. 267-64.270.
Zirngibl, Ludwig: *See*—
Thiele, Kurt; Geissmann, Felix; Zirngibl, Ludwig; and Jahn, Ulrich, 4,668,786, Cl. 544-267.000.
Zisholtz, Barry. Mobile for infants. 4,640,034, 2-3-87, Cl. 40-455.000.
Zisook, Sheldon O.: *See*—
Felstehausen, Eugene F., 4,667,369, Cl. 17-32.000.
Ziss, Rainer: *See*—
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Zisselmar, Raimund: *See*—
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Zitt, Volker, to Zika-Plastik GmbH. Portable receptacle. 4,669,587, 6-2-87, Cl. 190-109.000.
Zittel, David R., to Lyco Manufacturing, Inc. Industrial food processing machine. 4,688,476, 8-25-87, Cl. 99-403.000.
Zitz, Alfred; and Maier, Wilfried, to Voest-Alpine Aktiengesellschaft. Cutting machine. 4,696,518, 9-29-87, Cl. 299-75.000.
Zitz, Alfred: *See*—
Barnthaler, Franz; Bedenk, Ferdinand; Schetina, Otto; and Zitz, Alfred, 4,662,685, Cl. 299-33.000.
Barnthaler, Franz; Bedenk, Ferdinand; Schetina, Otto; and Zitz, Alfred, 4,664,449, Cl. 299-74.000.
Barnthaler, Franz; Krivec, Eduard; and Zitz, Alfred, 4,688,855, Cl. 299-75.000.
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Droscher, Bernhard; and Zitz, Alfred, 4,643,567, Cl. 356-152.000.
Zivitz, Maury; Ko, Eric; and Eslick, Mark, to Boehringer Mannheim GmbH. Position detector and mount therefor for a centrifugal analyzer. 4,695,164, 9-22-87, Cl. 356-427.000.
Zivitz, Maury: *See*—
White, Lionel S., Jr.; and Zivitz, Maury, 4,642,784, Cl. 364-551.000.
Zivkovich, Aleksandar. Process for burning a carbonaceous fuel using a high-energy alternating current wave. 4,710,681, 12-1-87, Cl. 315-209.00T.
Ziyad Incorporated: *See*—
Kapp, Ludwig J.; Fazio, Dominick; and Staniszewski, Tadeusz, 4,662,765, Cl. 400-595.000.
Staniszewski, Tadeusz, 4,714,243, Cl. 271-171.000.
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Zlehit pri Ban: *See*—
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Zletz, Alex; Satek, Larry C.; and Milier, Jeffrey T., to Standard Oil Company, The. Doped aluminum borate. 4,645,753, 2-24-87, Cl. 502-202.000.
Zlotky, Richard A.: *See*—
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Zoback, Mark D.; and Raleigh, Cecil B. Method for hydraulic fracture propagation in hydrocarbon-bearing formations. 4,635,719, 1-13-87, Cl. 166-250.000.
Zobbi, Robert G.; and Michaud, Mark, to Rem Chemicals, Inc. Composition and method for metal surface refinement. 4,705,594, 11-10-87, Cl. 156-637.000.
Zobel, Jurgen. Optical systems for endoscopes. 4,666,262, 5-19-87, Cl. 350-518.000.
Zobel, Jurgen, to Richard Wolf GmbH. Endoscope with a measuring device. 4,702,229, 10-27-87, Cl. 128-4.000.
Zobeli, Armin, to Meyer & Burger AG. Measuring system in an annular slicing machine. 4,653,361, 3-31-87, Cl. 82-48.000.
Zobl, Gunter: *See*—
Maul, Bernhard; Zobl, Gunter; and Kusch, Hans-Jurgen, 4,690,[illegible], Cl. 271-11.000.
Zodiac: *See*—
Ferronniere, Michel, 4,640,217, Cl. 114-345.000.
Zodrow, Rudolf; and Tomashauser, Josef, to Jagenberg Aktiengesellschaft. Smoothing and pressing down device in labeling machine. 4,692,201, 9-8-87, Cl. 156-488.000.
Zodrow, Rudolf; and Buchholz, Rainer, to Jagenberg Aktiengesellschaft. Apparatus for transferring articles, especially bottles. 4,697,691, 10-6-87, Cl. 198-425.000.
Zody, George M.: *See*—
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Sirrenberg, Wilhelm; Klauke, Erich; Zoebelein, Gerhard; Beck, Benedikt; and Stendel, Wilhelm, 4,699,916, Cl. 514-364.000.
Zoeller, Joseph R., to Eastman Kodak Company. Catalyst recovery process. 4,650,649, 3-17-87, Cl. 423-22.000.
Zoellner, Roger O.: *See*—
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Zoellner, Wolfgang: *See*—
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Schlueter, Kaspar; and Zoellner, Wolfgang, 4,650,596, Cl. 252-51.50R.
Zoerb, Melvin C., to Boeing Company, The. Aircraft wheel brake control system and method. 4,640,475, 2-3-87, Cl. 244-111.000.
Zoerb, Melvin C., to Boeing Company, The. Control system for aircraft wheel brakes and method. 4,685,748, 8-11-87, Cl. 303-115.000.
Zoerner, Glen J., to Motorola, Inc. Electronic switch for digital wireless phone. 4,636,587, 1-13-87, Cl. 379-377.000.
Zoetman, Herman; and Verbeek, Robert J. M., to U.S. Philips Corporation. Clock signal arrangement for regenerating a clock signal. 4,686,482, 8-11-87, Cl. 328-164.000.
Zofan, Ely S., to Floyd Bell Associates, Inc. Frequency selective notch circuit. 4,653,093, 3-24-87, Cl. 379-386.000.
Zofan, Ely S., to Floyd Bell Associates, Inc. Cathodic protection of structures. 4,664,764, 5-12-87, Cl. 204-147.000.
Zofan, Ely S.; and Thurston, Marlin O., to Floyd Bell Associates, Inc. Annunciator circuit for elevator systems. 4,684,927, 8-4-87, Cl. 340-384.00E.
Zogg, Gordon J.: *See*—
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Zola, Meyer J.: *See*—
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Zoladz, Frank J., to North American Philips Consumer Electronics Corp. Two-part transformer casting having liquid-tight seal. 4,709,828, 12-1-87, Cl. 220-76.000.
Zoleski, Benjamin H.; Crawford, Wheeler C.; and Sung, Rodney L., to Texaco Inc. Marine crankcase lubricant. 4,681,694, 7-21-87, Cl. 252-51.50R.
Zoleski, Benjamin H.: *See*—
Sung, Rodney L.; Zoleski, Benjamin H.; and O'Rourke, Ronald F., 4,676,917, Cl. 252-51.50A.
Sung, Rodney L.; Zoleski, Benjamin H.; and O'Rourke, Ronald F., 4,705,642, Cl. 252-47.500.
Sweeney, William M.; Zoleski, Benjamin H.; Sung, Rodney L.; and Crawford, Wheeler C., 4,704,217, Cl. 252-32.70E.
Zoller, Gerhard; Beyerle, Rudi; Just, Melitta; Mariorana, Piero; Bohlen, Helmut; and Nitz, Rolf-Eberhard, to Cassella Aktiengesellschaft. Tetrahydropyridazinone derivatives, processes for their preparation and their use. 4,666,902, 5-19-87, Cl. 514-212.000.
Zoller, Steven A.: *See*—
Kirkpatrick, Steven J.; Zoller, Steven A.; and Woods, Daniel F., 4,637,935, Cl. 426-443.000.
Zollinger, Hans R., to H. A. Schlatter AG. Apparatus for butt welding automotive wheel rim blanks. 4,649,253, 3-10-87, Cl. 219-101.000.
Zollinger, Hansrudolf. Collapsible table. 4,646,657, 3-3-87, Cl. 108-113.000.
Zollinger, Wendell D.; Boslego, John; Moran, Ellen; Brandt, Brent; Collins, Hugh; Mandrell, Robert; Altieri, Patricia; and Berman, Sanford, to United States of America, Army. Process for the preparation of detoxified polysaccharide-outer membrane protein complex and their use as antibacterial vaccines. 4,707,543, 11-17-87, Cl. 530-402.000.
Zollman, Peter M.; and Kernthaler, John E., to Zed Instruments, Ltd. Position measuring method and apparatus. 4,666,300, 5-19-87, Cl. 356-141.000.

Zollmeyer, Willi; and Scheurer, Friedrich, to Daimler-Benz Aktiengesellschaft. Driven axle for commercial vehicles. 4,697,662, 10-6-87, Cl. 180-71.000.
Zollner, Christine. *See*—
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Wilhelmi, Herbert; Kegel, Kurt; Conradty, Claudio; Zollner, Dieter; Lauterbach-Dammler, Inge; and Rittmann, Friedrich. 4,675,878, Cl. 373-90.000.
Wilhelmi, Herbert; Kegel, Kurt; Zollner, Dieter; Lauterbach-Dammler, Inge; Taube, Thomas; and Rittmann, Friedrich. 4,710,607, Cl. 219-121.00P.
Zollweg, Robert J. *See*—
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Zolman, Arden R. *See*—
Farling, Gene M.; Parr, Jack E.; and Zolman, Arden R. 4,660,755, Cl. 228-178.000.
Zolnierczyk, Kenneth J., and Roxe, David M., to Roxe, David M. Fluid administration apparatus and method. 4,676,775, 6-30-87, Cl. 604-28.000.
Zolnowsky, John; Crudele, Lesser M.; and Spak, Michael E., to Motorola, Inc. Method and apparatus for validating pre'etched instruction. 4,710,866, 12-1-87, Cl. 364-200.000.
Zolnowsky, John. *See*—
MacGregor, Douglas B.; Zolnowsky, John; and Mothersole, David. 4,715,013, Cl. 364-900.000.
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Moyer, William C.; Zolnowsky, John E.; and Mothersole, David S., 4,635,193, Cl. 364-200.000.
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Tybak, Erno; Mincsovics, Emil; Zoltan, Sandor; Kemeny, Gabor; Mathany, Aniko; Szekely, Tibor; Nemeth, Sandor; Antal, Zsuzsanna; and Fater, Zsuzsanna. 4,658,000, Cl. 526-217.000.
Zoltan, Steven I., to Advanced Color Technology, Inc. Printing head for ink jet printer. 4,641,155, 2-3-87, Cl. 346-140.00R.
Zolton, Gregory P., II. *See*—
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Zomerman, Jannes J. *See*—
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Zommer, Nathan, to Intersil, Inc. Power field-effect transistor structures. 4,677,452, 6-30-87, Cl. 357-23.400.
Zommers, G. Juris. Foldably extensible and collapsible track-mounted shade device for skylight-type window. 4,665,964, 5-19-87, Cl. 160-84.00R.
Zomorrodi, Mehrdad. *See*—
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Sherwin, Gary W.; and Zomp, John M., 4,679,002, Cl. 330-66.000.
Zompolas, Nicholas. *See*—
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Zompolas, Thomas; and Zompolas, Nicholas. Backup pump for aircraft instrument system including heater. 4,676,454, 6-30-87, Cl. 244-1.00R.
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Hubele, Adolf; Zondler, Helmut; Riebli, Peter; and Eckhardt, Wolfgang, 4,694,009, Cl. 514-269.000.
Zondler, Rolf; and Pottharst, Jurgen, to Standard Elektrik Lorenz Aktiengesellschaft. Liquid-crystal display made from continuous plastic film split and folded through 90 degrees. 4,702,559, 10-27-87, Cl. 350-331.00R.
Zones, Stacey I., to Chevron Research Company. Process for preparing molecular sieves using adamantane template. 4,665,110, 5-12-87, Cl. 423-277.000.
Zones, Stacey I., to Chevron Research Company. Preparation of crystalline zeolites using magadiite. 4,676,958, 6-30-87, Cl. 423-118.000.
Zones, Stacey I., to Chevron Research Company. Process for the preparation of crystalline microporous organosilicates using magadiite as a silica source. 4,689,207, 8-25-87, Cl. 423-332.000.
Zongker, Dwight E., to Cessna Aircraft Company, The. Series self-leveling valve with single spool for unloading and relief. 4,709,618, 12-1-87, Cl. 91-31.000.
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DeLay, Victor A., Jr., to von dem Bussche, Carl; DeLay, Victor A and Maguire, Patrick T. Portable container with interlocking fa Re. 32,458, 7-14-87, Cl. 220-86.00R.

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Alexander, John B.; Dennehey, Michael T.; Greff, Richard J. Munsch, John M., Re. 32,238, Cl. 294-16.000.

Detexomat Machinery Limited: *See—*
Hodges, Michael J., Re. 32,481, Cl. 223-75.000.

De Witt, Paolo; and Benedetto, Enrico, to Oronzio de Nora S.A. Sigma-Tau Industrie Farmaceutiche Riunite S.p.A. Electr process and electrolytic cell for the preparation of organic pounds. Re. 32,398, 4-14-87, Cl. 204-72.000.

Dey, Phillip; Fearns, Peter; Plessner, Karl W.; Pickup, Kenneth Gaylard, Bernard; and Murphy, Arthur B., to BICC Public Li Company. Overhead electric and optical transmission s Re. 32,374, 3-17-87, Cl. 350-96.230.

Deyrup, Edward J., to Du Pont de Nemours, E. I., and Com Molding resins. Re. 32,334, 1-20-87, Cl. 524-292.000.

Dictaphone Corporation: *See—*
Wilder, Leslie N.; Whitney, James C.; and Matison, Gar Re. 32,342, Cl. 360-72.200.

DiFrancesco, Alphonse B.; and Hage, Charles T., to Eastman K Company. Method and apparatus for producing duplex c Re. 32,422, 5-19-87, Cl. 430-126.000.

Di Peri, Leonard J. Modular dry-air evaporative cooler. Re. 3 7-21-87, Cl. 62-314.000.

Discovision Associates: *See—*
Dakin, Wayne R.; and Ceshkovsky, Ludwig, Re. 32,43 358-338.000.

Dobson, William C.; and Spoeth, Carl R., to Dart Industries Inc trica' switch-plug assembly with baffle. Re. 32,340, 1-27-8 200-50.00B.

Doering, Charles W., to Brinly-Hardy Co., Inc. Pushed deth unit. Re. 32,551, 12-1-87, Cl. 56-396.000.

Donaldson Company, Inc.: *See—*
Dudrey, Denis J., Re. 32,381, Cl. 494-60.000.

Dorleijn, Jan W. F.; Druyvesteyn, Willem F.; and De Jonge, Fr A., to U.S. Philips Corporation. Magnetic domain logic d Re. 32,545, 11-17-87, Cl. 365-32.000.

Dow Chemical Company, The: *See—*
Rigterink, Raymond H., Re. 32,418, Cl. 514-598.000.

Drori, Mordeki. Self-cleanable filter. Re. 32,537, 11-3-87, 210-107.000.

Druyvesteyn, Willem F.: *See—*
Dorleijn, Jan W. F.; Druyvesteyn, Willem F.; and De Frederik A., Re. 32,545, Cl. 365-32.000.

Dubner Computer Systems, Inc.: *See—*
Korman, Nathaniel I., Re. 32,544, Cl. 358-28.000.

Dudrey, Denis J., to Donaldson Company, Inc. Cartridge cent Re. 32,381, 3-24-87, Cl. 494-60.000.

Duggan, Stephen R., to Medtronic, Inc. Implantable telemetry mission system for analog and digital data. Re. 32,361, 2-24 128-696.000.

Dunlap, Raymond R.: *See—*
Hutchins, Burleigh M.; Dunlap, Raymond R.; and Ahr Louis, Re. 32,414, Cl. 414-744.00R.

Du Pont de Nemours, E. I., and Company: *See—*
Deyrup, Edward J., Re. 32,334, Cl. 524-292.000.
Smith, Malcolm S., Re. 32,325, Cl. 524-229.000.

Eastman Kodak Company: *See—*
Chan, Kwok Y., Re. 32,558, Cl. 354-173.100.
DiFrancesco, Alphonse B.; and Hage, Charles T., Re. 32,4 430-126.000.
Steklenski, David J., Re. 32,514, Cl. 524-32.000.

Ehrlich, Johann, to Patoflex Corporation. Sole construction for shoes. Re. 32,394, 4-14-87, Cl. 36-33.000.

Eli Lilly and Company: *See*—
Hamill, Robert L.; and Hoehn, Marvin M., Re. 32,333, Cl. 530-321.000.
Hamill, Robert L.; and Hoehn, Marvin M., Re. 32,455, Cl. 530-317.000.

Emert, Anton; Knabel, Walter; and Richert, Manfred, to Marker International Company. Ski brake. Re. 32,567, 12-29-87, Cl. 280-605.000.

Engel, Stephen A.; and Fuhrhop, Ronald E., to L-TEC Company. Method and apparatus for making instantaneous scarfing cuts. Re. 32,511, 9-29-87, Cl. 148-9.500.

Engineering Research Applications, Inc.: *See*—
Rooney, Craig E., Re. 32,419, Cl. 200-5.00R.

Enviro-Spray Systems Incorporated: *See*—
Banks, Russell; and Magid, David J., Re. 32,383, Cl. 53-449.000.

Erikson, Keith W.: *See*—
Erikson, Kenneth W.; and Erikson, Keith W., Re. 32,433, Cl. 74-441.000.

Erikson, Kenneth W.; and Erikson, Keith W., to Kerk Motion Products, Inc. Anti-backlash nut having longitudinal flexural members with ramps thereon and means to apply an axial pre-load force to said ramps. Re. 32,433, 6-9-87, Cl. 74-441.000.

Escaron, Pierre C.; and Hoppe, Joachim A., to Schlumberger Technology Corporation. Method and apparatus for conducting logging or perforating operations in a borehole. Re. 32,336, 1-27-87, Cl. 166-250.000.

Farmos Yhtyma Oy: *See*—
Karjalainen, Arto J.; and Kurkela, Kauko O. A., Re. 32,400, Cl. 514-397.000.

Fearns, Peter: *See*—
Dey, Phillip; Fearns, Peter; Plessner, Karl W.; Pickup, Kenneth H.; Gaylard, Bernard; and Murphy, Arthur B., Re. 32,374, Cl. 350-96.230.

Fedder, James L.; and Taylor, Attalee S., to AMP Incorporated. Card edge connector locking device. Re. 32,559, 12-15-87, Cl. 439-325.000.

Fergason, James L. Light demodulator and method of communication employing the same. Re. 32,521, 10-13-87, Cl. 350-334.000.

Ferris, Loren B. Elevator with power recovery. Re. 32,404, 4-21-87, Cl. 187-100.000.

Feucht, Robert H., to Goodyear Tire & Rubber Company, The. Hose structure. Re. 32,508, 9-22-87, Cl. 138-119.000.

Fish, David W.: *See*—
Merritt, David T.; Fish, David W.; and Long, Oren R., Re. 32,469, Cl. 166-117.500.

Fishbaugh, Byron L., to Goodyear Tire & Rubber Company, The. Hay rake. Re. 32,522, 10-20-87, Cl. 56-400.000.

Fitz, Edward J., to Casco Products Corporation. PTC heater construction. Re. 32,396, 4-14-87, Cl. 123-549.000.

Frieze, Allan S.: *See*—
Bowman, Peter; and Frieze, Allan S., Re. 32,367, Cl. 30-47.000.

Fuhrhop, Ronald E.: *See*—
Engel, Stephen A.; and Fuhrhop, Ronald E., Re. 32,511, Cl. 148-9.500.

Fuji Photo Film Co., Ltd.: *See*—
Takenaka, Yuji; and Yoshikawa, Sumio, Re. 32,424, Cl. 355-55.000.

Fujimoto, Masaharu: *See*—
Iwanami, Masaru; Maeda, Tetsuya; Nagano, Yoshinobu; Fujimoto, Masaharu; Nagano, Noriaki; and Yamazaki, Atsuki, Re. 32,491, Cl. 540-221.000.

Fukuhara, Toru; Saegusa, Takashi; and Higashi, Koichi, to Nippon Kogaku K.K. Exposure control apparatus for camera provided with multi metering device. Re. 32,376, 3-17-87, Cl. 354-432.000.

Fulk, James B.; McKeefry, Jerry L.; Schuning, George F.; and Bradley, John J., to Paper Converting Machine Company. Method and apparatus for correcting stack lean in a zig-zag folded web. Re. 32,331, 1-13-87, Cl. 493-399.000.

Funatsu, Chuhei; and Hirata, Toshikiyo, to Toyo Tsushinki K.K. Collision avoidance system for aircraft. Re. 32,368, 3-10-87, Cl. 342-45.000.

Furukawa, Shunsuke: *See*—
Tanaka, Masato; and Furukawa, Shunsuke, Re. 32,432, Cl. 360-44.000.

Furuno Electric Co., Ltd.: *See*—
Nagao, Syuji; Nakai, Ryoichi; and Yamauchi, Kazuo, Re. 32,357, Cl. 364-449.000.

Garber, Eugene L., to JLG Industries, Inc. Boom limit safety control circuit. Re. 32,366, 3-3-87, Cl. 340-685.000.

Gardner, David M.: *See*—
Clark, Roger T.; and Gardner, David M., Re. 32,392, Cl. 502-159.000.

Gaylard, Bernard: *See*—
Dey, Phillip; Fearns, Peter; Plessner, Karl W.; Pickup, Kenneth H.; Gaylard, Bernard; and Murphy, Arthur B., Re. 32,374, Cl. 350-96.230.

Geffroy, Christophe: *See*—
Geffroy, Robert; and Geffroy, Christophe, Re. 32,395, Cl. 92-212.000.

Geffroy, Robert; and Geffroy, Christophe. Piston and piston rings set. Re. 32,395, 4-14-87, Cl. 92-212.000.

Gelardi, Anthony L.; Gelardi, John; Landry, Vincent; and Pruneau, Diane, to Shape Inc. Tape cassette with separate tape guide. Re. 32,447, 6-30-87, Cl. 242-199.000.

Gelardi, John: *See*—
Gelardi, Anthony L.; Gelardi, John; Landry, Vincent; and Pruneau, Diane, Re. 32,447, Cl. 242-199.000.

General Electric Company: *See*—
Molari, Richard Edgar, Jr., Re. 32,406, Cl. 428-412.000.
Wentorf, Robert H., Jr.; and Rocco, William A., Re. 32,380, Cl. 407-119.000.

Gist-Brocades N.V.: *See*—
Apontoweil, Peter; and Krasselt, Manfred M., Re. 32,423, Cl. 435-235.000.

Givens, James A. Stabilized survival raft. Re. 32,560, 12-15-87, Cl. 441-37.000.

Glucksman, Dov Z. Hair roller. Re. 32,349, 2-10-87, Cl. 132-33.00R.

Golfbands Products: *See*—
Self, James M.; and Schaubel, Charles, Re. 32,397, Cl. 273-186.00A.

Goodyear Tire & Rubber Company, The: *See*—
Feucht, Robert H., Re. 32,508, Cl. 138-119.000.
Fishbaugh, Byron L., Re. 32,522, Cl. 56-400.000.

Gotou, Kanzen, to Hitachi, Ltd. Transaction processing system. Re. 32,478, 8-18-87, Cl. 235-379.000.

Graham, Johnny R.; and Graham, Kenneth Z., to Cantrell Machine Co., Inc. Rotary viscera harvester. Re. 32,402, 4-21-87, Cl. 17-45.000.

Graham, Kenneth Z.: *See*—
Graham, Johnny R.; and Graham, Kenneth Z., Re. 32,402, Cl. 17-45.000.

Grasselli, Robert K.; and Hardman, Harley F., to Standard Oil Company, The. Oxidation catalysts. Re. 32,484, 8-25-87, Cl. 502-212.000.

Grech, Leonard. Adjustable power transmitting device. Re. 32,415, 5-12-87, Cl. 464-109.000.

Greff, Richard J.: *See*—
Alexander, John B.; Dennehey, Michael T.; Greff, Richard J.; and Munsch, John M., Re. 32,338, Cl. 294-16.000.

Gregor, John A.; and Sellers, Gregory J. Amorphous antipilferage marker. Re. 32,427, 5-26-87, Cl. 340-572.000.

Gregor, John A.; and Sellers, Gregory J., to Allied Corporation. Amorphous antipilferage marker. Re. 32,428, 5-26-87, Cl. 340-572.000.

Groenwold, Bareld E., to Stauffer Chemical Co. Synergistic herbicidal combination. Re. 32,483, 8-25-87, Cl. 71-118.000.

Gustilo, Ramon B.; and Kyle, Richard F. Hip prosthesis. Re. 32,488, 9-1-87, Cl. 623-23.000.

Hadden, Donald L.: *See*—
Le Nay, Tom W.; Hadden, Donald L.; and Beckwith, George S., Re. 32,468, Cl. 340-506.000.

Hage, Charles T.: *See*—
DiFrancesco, Alphonse B.; and Hage, Charles T., Re. 32,422, Cl. 430-126.000.

Hagiwara, Hisao: *See*—
Miyasaka, Tadashi; Mutai, Masahiko; Sawada, Seigo; Nokata, Kenichiro; and Hagiwara, Hisao, Re. 32,518, Cl. 546-48.000.

Hakansson, Ivan: *See*—
Wretlind, Karl A. J.; Ljungberg, Stellan; Hakansson, Ivan; and Ajaxon, Bengt M., Re. 32,393, Cl. 514-219.000.

Halpern, Yuval, to Borg-Warner Chemicals, Inc. Flame-retardant polymer compositions containing amine salts. Re. 32,472, 8-11-87, Cl. 524-100.000.

Hamill, Robert L.; and Hoehn, Marvin M., to Eli Lilly and Company. A-21978 Antibiotics and process for their production. Re. 32,333, 1-20-87, Cl. 530-321.000.

Hamill, Robert L.; and Hoehn, Marvin M., to Eli Lilly and Company. A-21978 antibiotics and process for their production. Re. 32,455, 7-7-87, Cl. 530-317.000.

Hamlin, Thomas J.: *See*—
Stange, Klaus K.; Smith, Richard E.; Hamlin, Thomas J.; and Cassano, James R., Re. 32,541, Cl. 271-3.000.

Hansen, Laurence H.: *See*—
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Hardman, Harley F.: *See*—
Grasselli, Robert K.; and Hardman, Harley F., Re. 32,484, Cl. 502-212.000.

Hartig, Martval J., to Mitsubishi Rayon Co., Ltd. Reinforced optical fiber cable with glass or silica core. Re. 32,436, 6-9-87, Cl. 350-96.230.

Hashimoto, Takahumi: *See*—
Innami, Yoshiyuki; and Hashimoto, Takahumi, Re. 32,440, Cl. 200-144.00B.

Hattori, Shinichiro, to Olympus Optical Co., Ltd. Data transmission system for an endoscope apparatus. Re. 32,421, 5-19-87, Cl. 128-6.000.

Hawkswell, Victor T., to USM Corporation. Head for handling electrical components. Re. 32,538, 11-10-87, Cl. 29-740.000.

Hayashida, Tsutomu, to Nissan Motor Company, Limited. Two-shift throttle control system for automotive internal combustion engine. Re. 32,413, 5-12-87, Cl. 123-342.000.

Heck, Betty M. Fluid administration splint. Re. 32,335, 1-27-87, Cl. 128-88.000.

Heggeland, Bruce: *See*—
Tisbo, Cosmo N.; Tisbo, Thomas A.; Recker, Richard D.; and Heggeland, Bruce, Re. 32,510, Cl. 137-355.270.

Hensley, George H.; and Hensley, Raymond E. Combustion initiation system. Re. 32,505, 9-15-87, Cl. 361-257.000.

Hensley, Raymond E.: *See*—
Hensley, George H.; and Hensley, Raymond E., Re. 32,505, Cl. 361-257.000.

Hepworth, Paul S.; and Whitehouse, Martin G., to Plas Plugs Ltd. Tile parting devices. Re. 32,548, 11-24-87, Cl. 125-23.00T.

Heywood, Alan E.: *See*—
Bishop, David C.; and Heywood, Alan E., Re. 32,549, Cl. 428-594.000.

Higashi, Koichi: *See*—
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Higgins, Robert S.; and Merritt, David T., to Otis Engineering Corporation. Side pocket mandrel and method of construction. Re. 32,441, 6-23-87, Cl. 166-117.500.
Hightower, George H., Jr., to Thomaston Mills, Inc. Snake proof chaps. Re. 32,506, 9-22-87, Cl. 2-22.000.
Hilts, Robert L.: *See*—
Vinzant, Michael B.; Speegle, Steven C.; Meaders, Michael W.; and Hilts, Robert L., Re. 32,343, Cl. 166-322.000.
Hiraiwa, Kazuyoshi, to Nissan Motor Company, Limited. Four-wheel vehicle drive system. Re. 32,565, 12-22-87, Cl. 180-249.000.
Hirata, Toshikiyo: *See*—
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Nagai, Masahiro; and Miyake, Yasuhiko, Re. 32,385, Cl. 118-405.000.
Nagai, Masahiro; and Miyake, Yasuhiko, Re. 32,399, Cl. 427-11.000.
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Matsumoto, Hideaki; Bandoh, Tadaaki; and Maejima, Hideo, Re. 32,493, Cl. 364-200.000.
Nishida, Shigeo; Kawakami, Shojiro; Ohtaka, Yoichi; and Onoda, Seiichi, Re. 32,475, Cl. 350-96.330.
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Tomita, Yoshifumi; and Nakai, Hiromitsu, Re. 32,498, Cl. 430-28.000.
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Hoath, Grantley R.: *See*—
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Hobbs, Arthur G., Jr.: *See*—
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Hochstein, Peter A. Gated solid state FET relay. Re. 32,526, 10-20-87, Cl. 307-571.000.
Hodges, Michael J., to Detexomat Machinery Limited. Boarding apparatus. Re. 32,481, 8-25-87, Cl. 223-75.000.
Hoechst-Roussel Pharmaceuticals, Inc.: *See*—
Martin, Lawrence L.; Worm, Manfred; and Crichlow, Charles A., Re. 32,444, Cl. 540-564.000.
Hoehn, Marvin M.: *See*—
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Hamill, Robert L.; and Hoehn, Marvin M., Re. 32,455, Cl. 530-317.000.
Holtgraver, Edward G., to Keystone International, Inc. Valve assembly. Re. 32,409, 4-28-87, Cl. 137-315.000.
Hon, Frank: *See*—
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Hoppe, Joachim A.: *See*—
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Hunter, Edwin J., to Toro Company, The. Sprinkler systems. Re. 32,386, 3-31-87, Cl. 239-206.000.
Hutchins, Burleigh M.; Dunlap, Raymond R.; and Abrahams, Louis, to Zymark Corporation. Robot and control system. Re. 32,414, 5-12-87, Cl. 414-744.00R.
Hutter, G. Fredrick, to BASF-Inmont Division. Rosin derivatives used as dispersants. Re. 32,411, 5-5-87, Cl. 525-167.500.
IDR, Inc.: *See*—
Nagel, Robert H.; and Saylor, Richard, Re. 32,326, Cl. 358-83.000.
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Ima, Seiichiro: *See*—
Shiga, Akinobu; Matsuyama, Kiyoshi; Kakugo, Masahiro; Naito, Yukio; and Ima, Seiichiro, Re. 32,542, Cl. 428-512.000.
Innami, Yoshiyuki; and Hashimoto, Takahumi, to Kabushiki Kaisha Meidensha. Vacuum circuit interrupter. Re. 32,440, 6-16-87, Cl. 200-144.00B.
International Business Machines Corporation: *See*—
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Seaber, Geoffrey B.; van Loveren, Augustinus G.; and Munteanu, Marina A., Re. 32,513, Cl. 239-6.000.
Ishii, Shiro, to M-S Corporation. Battery powered drawer opening device. Re. 32,456, 7-7-87, Cl. 200-61.610.
Iwanami, Masaru; Maeda, Tetsuya; Nagano, Yoshinobu; Fujimoto, Masaharu; Nagano, Nobiaki; and Yamazaki, Atsuki, to Yamanouchi Pharmaceutical Co., Ltd. Process for the preparation of 7α-methoxy-7β-(1,3-diethietane-2-carboxyamido)cephalosporanic acid derivatives. Re. 32,491, 9-1-87, Cl. 540-221.000.
Janiga, Eugene R., to Masonite Corporation. Lignosulfonate-phenol-formaldehyde resin binder. Re. 32,408, 4-28-87, Cl. 524-14.000.
Jenkins, William A., to Monarch Marking Systems, Inc. Method of making a composite label web. Re. 32,490, 9-1-87, Cl. 156-250.000.
Jentoft, Arthur P.; and Couture, Paul A., to Wasco Products, Inc. Skylight construction. Re. 32,539, 11-10-87, Cl. 52-200.000.
JLG Industries, Inc.: *See*—
Garber, Eugene L., Re. 32,366, Cl. 340-685.000.
Johnson Matthey & Co., Limited: *See*—
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Jones, John C.; Sifford, Perry P.; and Sutton, Joel F., to United Technologies Corporation. Blade to blade vibration damper. Re. 32,1-27-87, Cl. 416-190.000.
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Kalaugher, Patrick G., to University of Exeter. Binocular presenta of visual information. Re. 32,487, 9-1-87, Cl. 350-145.000.
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Kanzaki, Nobuyoshi; Toyama, Kenji; Nakano, Katsutoshi; Shima Ryoichi; and Kudo, Fumio, to Matsushita Electric Industrial Ltd. Method for producing foil electrodes for electrolytic capac Re. 32,512, 9-29-87, Cl. 204-58.000.
Karjalainen, Arto J.; and Kurkela, Kauko O. A., to Farmos Yhtym Substituted imidazole derivatives and their use as anti-thrombi agents. Re. 32,400, 4-14-87, Cl. 514-397.000.
Kartridg Pak Co., The: *See*—
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Kawakami, Shojiro: *See*—
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Kedem, Abraham. Mixing device. Re. 32,324, 1-6-87, Cl. 366-265.
Keller, Arnold, to Waldemar Link GmbH & Co. Hip joint prost with a shaft to be fitted into the medullary canal of the fe Re. 32,471, 8-11-87, Cl. 53-23.000.
Kerk Motion Products, Inc.: *See*—
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Keystone International, Inc.: *See*—
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Kistner, John F., to Minnesota Mining and Manufacturing Comp Consolidation of aggregate material. Re. 32,476, 8-18-87, 405-264.000.
Klamer, Reuben B.; and Mortonson, Robert J., to Trend Prod Group. Trainer/learner skate. Re. 32,346, 2-3-87, Cl. 280-11.200
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Koziol, Konrad; Pilbrow, Malcolm F.; Zollner, Christine; and Zol Dieter H., to C. Conradty Nurnberg GmbH & Co. KG. Electrod fused melt electrolysis. Re. 32,426, 5-26-87, Cl. 204-286.000.
Koziol, Konrad; and Wenk, Erich, to Conradty GmbH & Co. M lelektroden KG. Coated metal anode for the electrolytic recove metals. Re. 32,561, 12-15-87, Cl. 204-288.000.
Krasselt, Manfred M.: *See*—
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Kudo, Fumio: *See*—
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Kumar, Vijay, to AMP Incorporated. Grounding mating hardw Re. 32,502, 9-15-87, Cl. 439-92.000.
Kurkela, Kauko O. A.: *See*—
Karjalainen, Arto J.; and Kurkela, Kauko O. A., Re. 32,40 514-397.000.

Kyle, Richard F.: *See*—
Gustilo, Ramon B.; and Kyle, Richard F., Re. 32,488, Cl. 623-23.000.

LTEC Company: *See*—
Engel, Stephen A.; and Fuhrhop, Ronald E., Re. 32,511, Cl. 148-9.500.

Lace, Melvin A. Magnetic probe. Re. 32,520, 10-13-87, Cl. 310-155.000.

Lai, Stanley H.: *See*—
Liebermann, Leonard; and Lai, Stanley H., Re. 32,552, Cl. 340-632.000.

Lallier, Jean-Claude: *See*—
Allart, Bernard R.; Lallier, Jean-Claude; and Noel, Alain W., Re. 32,446, Cl. 91-491.000.

Lamb, Owen L., to Slide Management Systems, Inc. Apparatus for viewing and sorting photographic slide transparencies. Re. 32,371, 3-17-87, Cl. 40-361.000.

Landry, Vincent: *See*—
Gelardi, Anthony L.; Gelardi, John; Landry, Vincent; and Pruneau, Diane, Re. 32,447, Cl. 242-199.000.

Leach, Clifford H.: *See*—
Westlake, John H.; Leach, Clifford H.; and Ainsworth, Clifford L., Re. 32,463, Cl. 175-48.000.

Leggett, Archie L., Jr., to R & L Enterprises, Inc. Diskette punch with attached gage. Re. 32,460, 7-21-87, Cl. 30-363.000.

Le Nay, Tom W.; Hadden, Donald L.; and Beckwith, George S., to Baker Protective Services, Inc. Central station alarm. Re. 32,468, 8-4-87, Cl. 340-506.000.

Leonard, Gordon C.: *See*—
Beck, Nicholas R.; Leonard, Gordon C.; and Prince, Jack A., Re. 32,531, Cl. 241-24.000.

Leonvest AG: *See*—
Ackeret, Peter, Re. 32,528, Cl. 40-513.000.

Liebermann, Leonard; and Lai, Stanley H. Gaseous impurity detector employing corona discharge phenomenon. Re. 32,552, 12-1-87, Cl. 340-632.000.

Litz, Lawrence M., to Union Carbide Corporation. Process and apparatus for mixing a gas and a liquid. Re. 32,562, 12-15-87, Cl. 261-91.000.

Ljungberg, Stellan: *See*—
Wretlind, Karl A. J.; Ljungberg, Stellan; Hakansson, Ivan; and Ajaxon, Bengt M., Re. 32,393, Cl. 514-219.000.

Lockhart, James A., Jr.; and Chang, Shung-Huei, to Burroughs Corporation. Apparatus for analyzing semiconductor memories. Re. 32,388, 3-31-87, Cl. 324-158.00R.

Long, Dennis J. G., to BP Chemicals Limited. Preservation process. Re. 32,416, 5-12-87, Cl. 426-19.000.

Long, Olen R.: *See*—
Merritt, David T.; Fish, David W.; and Long, Olen R., Re. 32,469, Cl. 166-117.500.

Lucas Girling Limited: *See*—
Wright, Andrew C. W., Re. 32,470, Cl. 188-73.440.

Luo, Tatao, to Chevron Research Company. Herbicidal substituted 2(1-oxyamino)-alkylidene)-cyclohexane-1,3-diones. Re. 32,489, 9-1-87, Cl. 71-98.000.

Lyle/Carlstrom Associates, Inc.: *See*—
Carlstrom, William, Re. 32,435, Cl. 211-186.000.

M-S Corporation: *See*—
Ishi, Shiro, Re. 32,456, Cl. 200-61.610.

Maeda, Tetsuya: *See*—
Iwanami, Masaru; Maeda, Tetsuya; Nagano, Yoshinobu; Fujimoto, Masaharu; Nagano, Noriaki; and Yamazaki, Atsuki, Re. 32,491, Cl. 540-221.000.

Maejima, Hideo: *See*—
Matsumoto, Hideaki; Bandoh, Tadaaki; and Maejima, Hideo, Re. 32,493, Cl. 364-200.000.

Magid, David J.: *See*—
Banks, Russell; and Magid, David J., Re. 32,383, Cl. 53-449.000.

Maguire, Patrick T.: *See*—
DeLay, Victor A., Jr., Re. 32,458, Cl. 220-86.00R.

Mansell, Richard L.: *See*—
Weiler, Elmar W.; and Mansell, Richard L., Re. 32,499, Cl. 435-7.000.

Marker International Company: *See*—
Emert, Anton; Knabel, Walter; and Richert, Manfred, Re. 32,567, Cl. 280-605.000.

Marketing Displays, Inc.: *See*—
Seely, James R., Re. 32,359, Cl. 40-602.000.

Martin, Lawrence L.; Worm, Manfred; and Crichlow, Charles A., to Hoechst-Roussel Pharmaceuticals, Inc. Process for preparing 4-phenyl-1,3-benzodiazepines. Re. 32,444, 6-23-87, Cl. 540-564.000.

Martineau, Tom N., to Stoelting, Inc. Soft-serve freezer control. Re. 32,360, 2-24-87, Cl. 62-127.000.

Maschio S.p.A.: *See*—
Barato, Paolo, Re. 32,405, Cl. 172-5.000.

Mashimo, Yukio: *See*—
Uchiyama, Takashi; Mashimo, Yukio; and Nakamura, Zenzo, Re. 32,425, Cl. 354-418.000.

Masonite Corporation: *See*—
Janiga, Eugene R., Re. 32,408, Cl. 524-14.000.

Matey, James R., to RCA Corporation. Scanning capacitance microscope. Re. 32,457, 7-7-87, Cl. 369-58.000.

Matison, Gary G.: *See*—
Wilder, Leslie N.; Whitney, James C.; and Matison, Gary G., Re. 32,342, Cl. 360-72.200.

Matsumoto, Hideaki; Bandoh, Tadaaki; and Maejima, Hideo, to Hitachi, Ltd. Data processing unit with pipelined operands. Re. 32,493, 9-1-87, Cl. 364-200.000.

Matsushita Electric Industrial Co., Ltd.: *See*—
Kanzaki, Nobuyoshi; Toyama, Kenji; Nakano, Katsutoshi; Shimatani, Ryoichi; and Kudo, Fumio, Re. 32,512, Cl. 204-58.000.

Matsuyama, Kiyoshi: *See*—
Shiga, Akinobu; Matsuyama, Kiyoshi; Kakugo, Masahiro; Naito, Yukio; and Ima, Seiichiro, Re. 32,542, Cl. 428-512.000.

Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.: *See*—
Claussen, Nils; Ruhle, Manfred; and Petzow, Gunter, Re. 32,449, Cl. 501-103.000.

Mayer, Theodore W., to R. R. Donnelley and Sons Company. Method and apparatus for tandem stitching of books in a bindery line. Re. 32,410, 5-5-87, Cl. 270-53.006.

Mays, James A. Plow attachment for converting a rotary tiller into a plow. Re. 32,467, 8-4-87, Cl. 172-253.000.

McCabe, Francis J., to Prefco Products, Inc. Fire damper and method of fabrication. Re. 32,362, 2-24-87, Cl. 137-15.000.

McConnell, Forrest M., to Koos, Inc. Ice melter and method of making same. Re. 32,477, 8-18-87, Cl. 252-70.000.

McDonnell Douglas Corporation: *See*—
Murphy, Dennis E., Re. 32,554, Cl. 244-118.500.

McKeefry, Jerry L.: *See*—
Fulk, James B.; McKeefry, Jerry L.; Schuning, George F.; and Bradley, John J., Re. 32,331, Cl. 493-399.000.

Meaders, Michael W.: *See*—
Vinzant, Michael B.; Speegle, Steven C.; Meaders, Michael W.; and Hilts, Robert L., Re. 32,343, Cl. 166-322.000.

Medtronic, Inc.: *See*—
Barthel, Thomas C., Re. 32,378, Cl. 128-419.0PG.
Duggan, Stephen R., Re. 32,361, Cl. 128-696.000.

Mein, Peter G. Process for recovering cesium from cesium alum. Re. 32,556, 12-8-87, Cl. 423-599.000.

Mengshoel, Hans C.; and Rykken, Oddvin. Combined seat and backrest unit for a chair. Re. 32,407, 4-28-87, Cl. D6-365.000.

Merritt, David T.; Fish, David W.; and Long, Olen R., to Otis Engineering Corporation. Side pocket mandrel. Re. 32,469, 8-11-87, Cl. 166-117.500.

Merritt, David T.: *See*—
Higgins, Robert S.; and Merritt, David T., Re. 32,441, Cl. 166-117.500.

Michel, Ulrich; and Radecker, Josef, to Wacker-Chemie GmbH. Room temperature stable organopolysiloxane compositions. Re. 32,504, 9-15-87, Cl. 528-15.000.

Milliken Research Corporation: *See*—
Rogers, Jack S., Re. 32,387, Cl. 428-254.000.

Minnesota Mining and Manufacturing Company: *See*—
Kistner, John F., Re. 32,476, Cl. 405-264.000.

Minolta Camera Kabushiki Kaisha: *See*—
Taniguchi, Nobuyuki; and Yuasa, Yoshio, Re. 32,437, Cl. 354-415.000.

Mita Industrial Co Ltd.: *See*—
Miyakawa, Nobuhiro, Re. 32,466, Cl. 503-208.000.

Mitsubishi Rayon Co., Ltd.: *See*—
Hartig, Martval J., Re. 32,436, Cl. 350-96.230.

Miyakawa, Nobuhiro, to Mita Industrial Co Ltd. Heat-sensitive color-forming recording material and process for preparation thereof. Re. 32,466, 7-28-87, Cl. 503-208.000.

Miyakawa, Seiichi; Tatsumi, Susumu; and Sakamoto, Koji, to Ricoh Co., Ltd. Method of maintaining the correct conditions of an electrophotographically duplicated image. Re. 32,330, 1-13-87, Cl. 355-14.00D.

Miyake, Yasuhiko: *See*—
Nagai, Masahiro; and Miyake, Yasuhiko, Re. 32,385, Cl. 118-405.000.
Nagai, Masahiro; and Miyake, Yasuhiko, Re. 32,399, Cl. 427-11.000.

Miyasaka, Tadashi; Mutai, Masahiko; Sawada, Seigo; Nokata, Kenichiro; and Hagiwara, Hisao, to Kabushiki Kaisha Yakult Honsha. Camptothecin derivatives. Re. 32,518, 10-13-87, Cl. 546-48.000.

Molari, Richard Edgar, Jr., to General Electric Company. Impact resistant soft coated laminates and process for making the same. Re. 32,406, 4-21-87, Cl. 428-412.000.

Molins PLC: *See*—
Bennett, David S.; and Hoath, Grantley R., Re. 32,353, Cl. 198-404.000.

Monarch Marking Systems, Inc.: *See*—
Jenkins, William A., Re. 32,490, Cl. 156-250.000.

Morning Surf Corporation: *See*—
Autrey, Robert C.; and Connolly, John W., Re. 32,420, Cl. 5-451.000.

Mortonson, Robert J.: *See*—
Klamer, Reuben B.; and Mortonson, Robert J., Re. 32,346, Cl. 280-11.200.

Motion Analysis, Inc.: *See*—
Plagenhoef, Stanley C., Re. 32,412, Cl. 36-32.00R.

Mott, Donna, to Borg-Warner Chemicals, Inc. Flame-retardant polymer compositions containing metal salts. Re. 32,473, 8-11-87, Cl. 524-118.000.

Munsch, John M.: *See*—
Alexander, John B.; Dennehey, Michael T.; Greff, Richard J.; and Munsch, John M., Re. 32,338, Cl. 294-16.000.

Munson, Robert E.: *See*—
Stockton, Ronald J.; and Munson, Robert E., Re. 32,369, Cl. 342-368.000.

Munteanu, Marina A.: *See*—
Seaber, Geoffrey B., van Loveren, Augustinus G., and Munteanu, Marina A., Re. 32,513, Cl. 239-6.000.

Muramatsu, Shigeru: *See*—
Anahara, Meiji, and Muramatsu, Shigeru, Re. 32,494, Cl. 57-401.000.

Murphy, Arthur B.: *See*—
Dey, Phillip; Fearns, Peter; Plessner, Karl W.; Pickup, Kenneth H.; Gaylard, Bernard; and Murphy, Arthur B., Re. 32,374, Cl. 350-96.230.

Murphy, Dennis E., to McDonnell Douglas Corporation. Vent structure. Re. 32,554, 12-8-87, Cl. 244-118.500.

Murphy, James V., to Advanced Interconnections, Inc. Terminal positioning method and construction. Re. 32,540, 11-10-87, Cl. 206-329.000.

Murray Corporation: *See*—
Proctor, Robert H., and Hobbs, Arthur G., Jr., Re. 32,451, Cl. 62-149.000.

Mutai, Masahiko: *See*—
Miyasaka, Tadashi; Mutai, Masahiko; Sawada, Seigo; Nokata, Kenichiro; and Hagiwara, Hisao, Re. 32,518, Cl. 546-48.000.

Nagai, Masahiro, and Miyake, Yasuhiko, to Hitachi Cable, Ltd. Apparatus for the manufacture of a composite metal wire. Re. 32,385, 3-31-87, Cl. 118-405.000.

Nagai, Masahiro, and Miyake, Yasuhiko, to Hitachi Cable, Ltd. Method for the manufacture of a composite metal wire. Re. 32,399, 4-14-87, Cl. 427-11.000.

Nagano, Noriaki: *See*—
Iwanami, Masaru; Maeda, Tetsuya; Nagano, Yoshinobu; Fujimoto, Masaharu; Nagano, Noriaki; and Yamazaki, Atsuki, Re. 32,491, Cl. 540-221.000.

Nagano, Yoshinobu: *See*—
Iwanami, Masaru; Maeda, Tetsuya; Nagano, Yoshinobu; Fujimoto, Masaharu; Nagano, Noriaki; and Yamazaki, Atsuki, Re. 32,491, Cl. 540-221.000.

Nagao, Syuji; Nakai, Ryoichi; and Yamauchi, Kazuo, to Furuno Electric Co., Ltd. Moving body track indicator system. Re. 32,357, 2-17-87, Cl. 364-449.000.

Nagel, Robert H.; and Saylor, Richard, to IDR, Inc. Row grabbing system. Re. 32,326, 1-6-87, Cl. 358-83.000.

Nagy, Peter L.: *See*—
Takacs, Kalman; Papp, Maria H.; Kovacs, Gabor; Ajtert, Ilona K.; Simay, Antal; Nagy, Peter L.; Puskas, Marian E.; Sebestyen, Gyula; Stadler, Istvan; and Sumeghy, Zoltan, Re. 32,519, Cl. 546-145.000.

Naito, Yukio: *See*—
Shiga, Akinobu; Matsuyama, Kiyoshi; Kakugo, Masahiro; Naito, Yukio; and Ina, Seiichiro, Re. 32,542, Cl. 428-512.000.

Nakai, Hiromitsu: *See*—
Tomita, Yoshifumi; and Nakai, Hiromitsu, Re. 32,498, Cl. 430-28.000.

Nakai, Ryoichi: *See*—
Nagao, Syuji; Nakai, Ryoichi; and Yamauchi, Kazuo, Re. 32,357, Cl. 364-449.000.

Nakamura, Zenzo, Sr.—
Uchiyama, Takashi; Mashimo, Yukio; and Nakamura, Zenzo, Re. 32,425, Cl. 354-418.000.

Nakano, Katsutoshi: *See*—
Kanzaki, Nobuyoshi; Toyama, Kenji; Nakano, Katsutoshi; Shimatani, Ryoichi; and Kudo, Fumio, Re. 32,512, Cl. 204-58.000.

Naruzny, Ronald S., to Thomas & Betts Corporation. Three-row connector for mass terminating flat cable. Re. 32,439, 6-16-87, Cl. 439-404.000.

Neher, Robert; and Rniker, Bernhard, to Ciba-Geigy Corp. Hypocalcaemic peptides and process for their manufacture. Re. 32,347, 2-3-87, Cl. 514-12.000.

Nelson, John E., to Babcock & Wilcox Co., The. Method and apparatus for cleaning heated surfaces. Re. 32,517, 10-13-87, Cl. 122-379.000.

Nikolich, Milovan, to Signode Corporation. Portable gas-powered tool with linear motor. Re. 32,452, 7-7-87, Cl. 123-46.0SC.

Nippon Gakki Seizo Kabushiki Kosha: *See*—
Suzuki, Hideo, Re. 32,445, Cl. 84-1.240.

Nippon Kogaku K.K.: *See*—
Fukahara, Toru; Saegusa, Takashi; and Higashi, Koichi, Re. 32,376, Cl. 354-432.000.

Nishida, Hideo: *See*—
Yoshinaga, Yoichi; Ueda, Shinjiro; and Nishida, Hideo, Re. 32,462, Cl. 415-211.000.

Nishida, Shigeo; Kawakami, Shojiro; Ohtaka, Yoichi; and Onoda, Seiichi, to Hitachi, Ltd. Optical waveguide transmitting light wave energy in single mode. Re. 32,475, 8-18-87, Cl. 350-96.330.

Nissan Motor Company, Limited: *See*—
Hayashida, Tsutomu, Re. 32,413, Cl. 123-342.000.
Hirawa, Kazuyoshi, Re. 32,565, Cl. 180-249.000.

Noda, Masaki: *See*—
Shinkawa, Keiro; Noda, Masaki; and Sodeyama, Chuichi, Re. 32,527, Cl. 331-99.000.

Noel, Alain W.: *See*—
Allart, Bernard R.; Lallier, Jean-Claude; and Noel, Alain W., Re. 32,446, Cl. 91-491.000.

Nokata, Kenichiro: *See*—
Miyasaka, Tadashi; Mutai, Masahiko; Sawada, Seigo; Nokata, Kenichiro; and Hagiwara, Hisao, Re. 32,518, Cl. 546-48.000.

Norman, Warren N.: *See*—
Stover, Don A.; Upshaw, Clarence W.; and Norman, Warren N., Re. 32,453, Cl. 280-33.99B.

Northwestern University: *See*—
Chatterton, Robert T., Re. 32,557, Cl. 435-7.000.

Norton Christensen, Inc.: *See*—
Westlake, John H.; Leach, Clifford H.; and Ainsworth, Clifford L., Re. 32,463, Cl. 175-48.000.

Nu Lease Corporation: *See*—
Werner, David G., Re. 32,509, Cl. 52-202.000.

Odenthal, Charles: *See*—
Bennett, Clifford D.; and Odenthal, Charles, Re. 32,553, Cl. 137-271.000.

Ohtaka, Yoichi: *See*—
Nishida, Shigeo; Kawakami, Shojiro; Ohtaka, Yoichi; and Onoda, Seiichi, Re. 32,475, Cl. 350-96.330.

Ozumi, Yoshio, to Yamakyu Automatics Co., Ltd. System for conveying conical articles. Re. 32,337, 1-27-87, Cl. 198-463.600.

Okada Kogyo Kabushiki Kaisha: *See*—
Okada, Yoshio, Re. 32,501, Cl. 30-292.000.

Okada, Yoshio, to Okada Kogyo Kabushiki Kaisha. Rotary cutter. Re. 32,501, 9-15-87, Cl. 30-292.000.

Olympus Optical Co., Ltd.: *See*—
Hattori, Shinichiro, Re. 32,421, Cl. 128-6.000.

Onoda, Seiichi: *See*—
Nishida, Shigeo; Kawakami, Shojiro; Ohtaka, Yoichi; and Onoda, Seiichi, Re. 32,475, Cl. 350-96.330.

Opex Corporation: *See*—
Russell, Robert J., Re. 32,328, Cl. 53-381.000.

Organon Teknika B.V.: *See*—
Bom, Nicolaas, Re. 32,323, Cl. 128-660.000.

Oronzio de Nora S.A.: *See*—
De Witt, Paolo; and Benedetto, Enrico, Re. 32,398, Cl. 204-72.00.

Otis Engineering Corporation: *See*—
Higgins, Robert S.; and Merritt, David T., Re. 32,441, Cl. 166-117.500.
Merritt, David T.; Fish, David W.; and Long, Olen R., Re. 32,469, Cl. 166-117.500.
Vinzant, Michael B.; Speegle, Steven C.; Meaders, Michael W.; and Hilts, Robert L., Re. 32,343, Cl. 166-122.000.

Outboard Marine Corporation: *See*—
Seyerle, Carl E., Re. 32,377, Cl. 56-245.000.

Page, Philip R.: *See*—
Villax, Ivan; and Page, Philip R., Re. 32,535, Cl. 260-351.500.

Pannu, Jaswant S. Universal intraocular lens and a method of insuring an eye chamber size. Re. 32,525, 10-20-87, Cl. 623-6.000.

Paper Converting Machine Company: *See*—
Fulk, James B.; McKeefry, Jerry L.; Schuning, George F.; and Bradley, John J., Re. 32,331, Cl. 493-399.000.

Papp, Maria H.: *See*—
Takacs, Kalman; Papp, Maria H.; Kovacs, Gabor; Ajtert, Ilona K.; Simay, Antal; Nagy, Peter L.; Puskas, Marian E.; Sebestyen, Gyula; Stadler, Istvan; and Sumeghy, Zoltan, Re. 32,519, Cl. 546-145.000.

Paszner, Laszlo. Method of adhering mineral deposit to wood fiber surfaces. Re. 32,329, 1-13-87, Cl. 264-108.000.

Patoflex Corporation: *See*—
Ehrlich, Johann, Re. 32,394, Cl. 36-73.000.

Patton, Edward E., Jr. Bowler's glove and wrist support. Re. 32,566, 12-29-87, Cl. 2-161.00A.

Pennwalt Corporation: *See*—
Clark, Roger T.; and Gardner, David M., Re. 32,382, Cl. 502-159.000.

Petzow, Gunter: *See*—
Claussen, Nils; Ruhle, Manfred; and Petzow, Gunter, Re. 32,449, Cl. 501-103.000.

Peysner, Paul H. Miniature balloon catheter method and apparatus. Re. 32,348, 2-10-87, Cl. 128-325.000.

Phillips Petroleum Company: *See*—
Trepka, William J.; and Sonnenfeld, Richard J., Re. 32,533, Cl. 44-62.000.

Picazo, Jose J., Jr.: *See*—
Biba, Kenneth J.; and Picazo, Jose J., Jr., Re. 32,327, Cl. 370-124.000.

Pickup, Kenneth H.: *See*—
Dey, Phillip; Fearns, Peter; Plessner, Karl W.; Pickup, Kenneth H.; Gaylard, Bernard; and Murphy, Arthur B., Re. 32,374, Cl. 350-96.230.

Pilbrow, Malcolm F.: *See*—
Koziol, Konrad; Pilbrow, Malcolm F.; Zollner, Christine; and Zollner, Dieter H., Re. 32,426, Cl. 204-286.000.

Plagenhoef, Stanley C., to Motion Analysis, Inc. Elastomeric shroud. Re. 32,412, 5-12-87, Cl. 36-32.00R.

Plas Plugs Ltd.: *See*—
Hepworth, Paul S.; and Whitehouse, Martin G., Re. 32,548, Cl. 125-23.00T.

Plessner, Karl W.: *See*—
Dey, Phillip; Fearns, Peter; Plessner, Karl W.; Pickup, Kenneth H.; Gaylard, Bernard; and Murphy, Arthur B., Re. 32,374, Cl. 350-96.230.

Plurichemie Anstalt: *See*—
Villax, Ivan; and Page, Philip R., Re. 32,535, Cl. 260-351.500.

Poclain Hydraulics: *See*—
Allart, Bernard R.; Lallier, Jean-Claude; and Noel, Alain W., Re. 32,446, Cl. 91-491.000.

Portec, Inc.: *See*—
Warren, Kenneth D.; and Tenold, Gregory G., Re. 32,355, Cl. 241-300.000.
Warren, Kenneth D.; and Tenold, Gregory G., Re. 32,363, Cl. 241-300.000.
Powers, Kerns H., to RCA Corporation, Television display system with reduced line-scan artifacts, Re. 32,358, 2-17-87, Cl. 358-21.00R.
Prefco Products, Inc.: *See*—
McCabe, Francis J., Re. 32,362, Cl. 137-15.000.
Prince, Jack A.: *See*—
Beck, Nicholas R.; Leonard, Gordon C.; and Prince, Jack A., Re. 32,531, Cl. 241-24.000.
Pringle, Ronald E., to Cameo, Incorporated, Hydraulic actuating means for subsurface safety valve, Re. 32,390, 4-7-87, Cl. 166-321.000.
Proctor, Robert H., and Hobbs, Arthur G., Jr., to Murray Corporation, Weight-monitored air-conditioner charging station, Re. 32,451, 5-7-87, Cl. 62-149.000.
Prueau, Diane: *See*—
Gelardi, Anthony L.; Gelardi, John; Landry, Vincent; and Prueau, Diane, Re. 32,447, Cl. 242-199.000.
Pure Fuel of Nevada, Inc.: *See*—
Starbuck, Arthur E., Re. 32,454, Cl. 106-286.800.
Puskas, Marian E.: *See*—
Takacs, Kalman; Papp, Maria H.; Kovaacs, Gabor; Ajzert, Ilona K.; Simay, Antal; Nagy, Peter L.; Puskas, Marian E.; Sebestyen, Gyula; Stadler, Istvan; and Sumeghy, Zoltan, Re. 32,519, Cl. 546-145.000.
R.R.I. Enterprises, Inc.: *See*—
Leggett, Archie L., Jr., Re. 32,460, Cl. 30-361.000.
R. R. Donnelley and Sons Company: *See*—
Mayer, Theodore W., Re. 32,410, Cl. 270-53.000.
Raisch, Hans: *See*—
Schmid, Friedbert; and Raasch, Hans, Re. 32,507, Cl. 57-408.000.
Radecker, Josef: *See*—
Michel, Ulrich; and Radecker, Josef, Re. 32,504, Cl. 524-15.000.
Raidel, John E., Jr., Vehicle suspension with rigid torque beam, Re. 32,486, 9-1-87, Cl. 280-711.000.
Raymond, Edward L.: *See*—
Becker, James R.; Raymond, Edward L.; and Cameron, David W., Re. 32,349, Cl. 29-157.10R.
RCA Corporation: *See*—
Dawson, Robert H.; and Schnable, George L., Re. 32,351, Cl. 29-571.000.
Matey, James R., Re. 32,457, Cl. 369-58.000.
Powers, Kerns H., Re. 32,358, Cl. 358-21.00R.
Recker, Richard D.: *See*—
Tobo, Cosmo N.; Tobo, Thomas A.; Recker, Richard D.; and Heggelund, Bruce, Re. 32,510, Cl. 137-355.270.
Reed, Max: *See*—
Reed, Robert C.; and Reed, Max, Re. 32,547, Cl. 119-29.000.
Reed, Robert C.; and Reed, Max, Animal exercising harness, Re. 32,547, 11-24-87, Cl. 119-29.000.
Reid, Dennis, Variable time delay apparatus for controlling the start of a vehicle, Re. 32,474, 6-11-87, Cl. 307-10.00R.
Resnick, Marlene; and Sturtevant, Roger C., Solar heating, Re. 32,523, 10-20-87, Cl. 126-422.000.
Rhodes, Buck A.: *See*—
Burchiel, Scott W.; Rhodes, Buck A.; and Crockford, David R., Re. 32,417, Cl. 424-1.100.
Rhone-Poulenc Agrochimie: *See*—
Theissen, Robert J., Re. 32,550, Cl. 564-166.000.
Richert, Manfred: *See*—
Emert, Anton; Knabel, Walter; and Richert, Manfred, Re. 32,367, Cl. 280-605.000.
Ricoh Co., Ltd.: *See*—
Miyakawa, Seiichi; Tatsumi, Susumu; and Sakamoto, Koji, Re. 32,330, Cl. 355-14.00D.
Rijpkema, Raymond H., to Dow Chemical Company, The, Substituted[(phenyl)amino]carbonyl]-benzamides, Re. 32,418, 5-12-87, Cl. 514-598.000.
Rinker, Bernhard: *See*—
Neher, Robert; and Rinker, Bernhard, Re. 32,347, Cl. 514-12.000.
Roake, Joseph C., to Barry Wright Corporation, Apparatus for securing an electronic unit to an avionics tray, Re. 32,546, 11-24-87, Cl. 74-89.150.
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Rogers, Jack S., to Milliken Research Corporation, Athletic support fabric, Re. 32,387, 3-31-87, Cl. 428-254.000.
Rohner, Joachim, to W. Schlafhorst & Co., Method and device for joining an upper thread to a lower thread, Re. 32,372, 3-17-87, Cl. 57-22.000.
Rooney, Craig E., to Engineering Research Applications, Inc., Molded keyboard and method of fabricating same, Re. 32,419, 5-12-87, Cl. 200-5.00R.
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Russell, Robert J., to Opex Corporation, Mail extracting and sorting desk, Re. 32,328, 1-13-87, Cl. 53-381.00R.
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Satzler, Ronald L., to Caterpillar Inc., Belt tensioning mechanism, Re. 32,442, 6-23-87, Cl. 180-9.100.
Savage, Chester, to Scholle Corporation, Container for holding and dispensing fluid, Re. 32,354, 2-17-87, Cl. 222-81.000.
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Schmid, Friedbert; and Raasch, Hans, to Stahlecker, Fritz; and Stahlecker, Hans, Opening roller unit for open-end spinning installation, Re. 32,507, 9-22-87, Cl. 57-408.000.
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Scholberg, Andre, to Schlumberger Technology Corporation, Apparatus for determining the resistivity of a subsurface earth formation at different lateral distances from a bore hole wall, Re. 32,564, 12-15-87, Cl. 324-373.000.
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Seaber, Geoffrey B.; van Loveren, Augustinus G.; and Munteanu, Marina A., to International Flavors & Fragrances Inc., Method for dispensing at a visibly detectable rate, continuously or discontinuously, for discrete periods of time at a steady rate, a volatile composition of matter from a container into the atmosphere as well as the container used in the method, Re. 32,513, 10-6-87, Cl. 239-6.000.
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Sebestyn, George, to Sanders Associates, Inc., Processing display pagers, Re. 32,365, 3-3-87, Cl. 340-311.100.
Seely, James R., to Marketing Displays, Inc., Portable wind-resistant sign stand with flexible sign, Re. 32,359, 2-24-87, Cl. 40-602.000.
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Shoji, Masakazu, to American Telephone and Telegraph Company, AT&T Bell Laboratories, Apparatus for increasing the speed of a circuit having a string of IGFETS, Re. 32,515, 10-6-87, Cl. 307-448.000.
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Stange, Klaus K.; Smith, Richard E.; Hamlin, Thomas J.; and Cassano, James R., to Xerox Corporation. Fluidic feeding of documents to an exposure station. Re. 32,541, 11-10-87, Cl. 271-3.000.

Starbuck, Arthur E., to Pure Fuel of Nevada, Inc., and Ag-Con Materials of Nevada, Inc. Process for desulfurization of coal and ores. Re. 32,454, 7-7-87, Cl. 106-286.800.

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Takemura, Yasuo, to Tokyo Shibaura Denki Kabushiki Kaisha. Solid-state color television camera device. Re. 32,492, 9-1-87, Cl. 358-44.000.

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Wolstenholme, Paul P. Storage system for granular materials. Re. 32,536, 11-3-87, Cl. 99-646.00S.
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1987
LIST OF REEXAMINATION PATENTEES

Adee, James M.; and MacPherson, John A., to Form Physics Corp. Process for forming metal parts with less than 1 percent carbon content. B1 4,225,345, 9-15-87, Cl. 419-36.000.

Adee, Raymond A., to Hesston Corporation. Tandem folding implement. B1 4,066,274, 3-31-87, Cl. 280-411.00A.

AG-Bag Corporation: *See*—
Johnson, William C.; Rasmussen, David H.; and Lee, Richard H., B1 4,337,805, Cl. 141-71.000.

Aladdin Industries, Incorporated: *See*—
Frazier, Albert A.; and Phillips, Howard W., B1 4,113,147, Cl. 222-131.000.

Alfa Chemicals Italiana S.p.A.: *See*—
Cannata, Vincenzo; and Tamerlani, Giancarlo, B1 4,423,244, Cl. 562-466.000.

Alia, Dominic: Processible and vulcanizable polar polymers. B1 4,180,531, 3-10-87, Cl. 525-214.000.

Allen, Richard C.: *See*—
Strupczewski, Joseph T.; Gardner, Beth A.; and Allen, Richard C., B1 4,408,054, Cl. 546-226.000.

Allergan Caribbean: *See*—
Karageozian, Hampar L.; and Rufko, Paul, B1 3,910,296, Cl. 134-42.000.

Allied Corp., The: *See*—
Rhee, Seong K.; and Kwolek, John P., B1 3,835,118, Cl. 523-155.000.

Alpha Industries, Inc.: *See*—
Borzym, Alexander, B1 4,108,029, Cl. 83-54.000.

Alston, Norman A.: *See*—
Harbaugh, James B.; Brooks, Edward F.; and Alston, Norman A., B1 4,154,100, Cl. 73-861.660.

Aluminum Company of America: *See*—
Phelps, Frankie E.; Francis, Thomas L.; and LaCamera, Alfred F., B1 4,499,193, Cl. 501-98.000.
Phelps, Frankie E.; Boget, Paul J.; and Troup, Robert L., B1 4,511,666, Cl. 501-98.000.

American Biltrite Rubber Co., Inc.: *See*—
Flounders, James M., B1 3,540,486, Cl. 285-156.000.

American Safety Equipment Corp.: *See*—
Hollowell, William, B1 4,562,977, Cl. 242-107.40D.

American Sugar Company: *See*—
Eis, Frederick G., B1 3,523,889, Cl. 210-709.000.

AMP Incorporated: *See*—
Gurley, Grey M., B1 3,760,331, Cl. 339-36.000.
Lucius, John E., B1 4,385,794, Cl. 439-399.000.

Anderson, Gordon K.; Evans, Richard A.; and Hilmer, Ralph H., to Lear Siegler, Inc. Apparatus for connecting a stationary air conditioning unit to aircraft. B1 3,399,545, 3-10-87, Cl. 62-237.000.

Antypas, George A., to Varian Associates. Epitaxial indium-gallium-arsenide phosphide layer on lattice-matched indium-phosphide substrate and devices. B1 3,982,261, 4-7-87, Cl. 357-16.000.

Application Art Laboratories Co., Ltd.: *See*—
Morita, Tamao, B1 4,021,891, Cl. 24-303.000.

Arcamone, Federico: *See*—
Foglio, Maurizio; Franceschi, Giovanni; Scarafile, Cosimo; Arcamone, Federico; and Sanfilippo, Aurora, B1 4,482,565, Cl. 514-192.000.

Armstrong, John H. G., to Volumatic Ltd. Containers for banknotes and the like. B1 3,854,655, 1-13-87, Cl. 232-4.00R.

Aschwanden, Werner; and Kyburz, Emilio, to Hoffmann-La Roche Inc. 1-pyrrolidine acetamides. B1 4,476,308, 3-10-87, Cl. 546-208.000.

Auto Restraint Systems Limited: *See*—
Giffen, William M.; Pollitt, John M.; and Clifford, Roy, B1 4,040,645, Cl. 280-803.000.

Baker, Benjamin H.: *See*—
Baker, Stanley Z.; and Baker, Benjamin H., B1 4,438,584, Cl. 43-58.000.

Baker, Stanley Z.; and Baker, Benjamin H., to J. T. Eaton & Company, Inc. Trap for rats, mice, and other vermin. B1 4,438,584, 4-28-87, Cl. 43-58.000.

Bargain, Michel; and Millet, Claude, to Rhone-Poulenc Industries. Polymerization of organopolysiloxanes. B1 4,138,543, 8-18-87, Cl. 528-14.000.

Bartlett, Robert W.; and Jorgensen, Paul J., to S R I International. Process for applying thermal barrier coatings to metals. B1 4,483,720, 3-10-87, Cl. 148-6.300.

BASF Wyandotte Corporation: *See*—
Kaneko, Thomas M., B1 4,351,753, Cl. 252-357.000.

Bayer Aktiengesellschaft: *See*—
Grohe, Klaus; Petersen, Uwe; Zeiler, Hans-Joachim; and Metzger, Karl G., B1 4,556,658, Cl. 514-254.000.

Bechthold, Horst; and Bottger, Paul, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Method of removing SO_2 and/or other acid components from waste gases. B1 4,039,304, 1-20-87, Cl. 55-10.000.

Beckman Instruments, Inc.: *See*—
Jain, Chandra P.; and Shu, Frank R., B1 4,330,296, Cl. 436-88.000.

Bedinghaus Business Forms Inc.: *See*—
Tonges, Gerald A.; and Elmlinger, Eugene L., B1 4,175,774, Cl. 283-94.000.

Belavitch, Alphonse L.: *See*—
Norton, Edward J.; Oparowski, Paul; and Belavitch, Alphonse L., B1 4,451,996, Cl. 36-129.000.

Benasutti, John E.: *See*—
Griffin, Wendell L.; Carlsen, John; and Benasutti, John E., B1 4,257,674, Cl. 350-96.210.

Bentley, Mona L. Swimming aids. B1 3,820,178, 6-2-87, Cl. 441-111.00.

Berkline Corporation, The: *See*—
Long, Stapleton, B1 8,269,745, Cl. D6-381.000.

Bhatia, Kishan: *See*—
Burnes, Edward E.; and Bhatia, Kishan, B1 4,515,758, Cl. 423-220.000.

Birkner, John M.; and Chua, Hua-Thye, to Monolithic Memories, Inc. Programmable array logic circuit. B1 4,124,899, 4-28-87, Cl. 364-716.000.

Blasioli, Carlo: *See*—
Chick, Jacques A.; Heymes, Alain; and Blasioli, Carlo, B1 4,439,442, Cl. 514-471.000.

Blissett, Kitson; and Dunbar, Robert A., to Rothenhaus, Robert, a part interest. Control device responsive to infrared radiation. B1 4,346,427, 12-8-87, Cl. 361-173.000.

Boget, Paul J.: *See*—
Phelps, Frankie E.; Boget, Paul J.; and Troup, Robert L., B1 4,511,666, Cl. 501-98.000.

Bond, Raymond G., to Fortel Inc. Message playback control system for telephone answering machine. B1 4,558,179, 9-22-87, Cl. 379-70.000.

Bonnell, Leonard J.; McHugh, Edward H.; Sjostrom, Douglas D.; and Johnson, Lanny L., to Dyonics, Inc. Surgical instrument suitable for closed surgery such as of the knee. B1 4,203,444, 7-21-87, Cl. 604-22.000.

Boochever, Evelyn; and Munk, Michael. Environmental humidification and cooling system. B1 4,042,016, 3-31-87, Cl. 165-20.000.

Borzym, Alexander, to Alpha Industries, Inc. Cut-off die set. B1 4,108,029, 8-18-87, Cl. 83-54.000.

Bosker, Hans. System for denture support using a transmandibular implant. B1 4,516,937, 11-24-87, Cl. 433-173.000.

Bottger, Paul: *See*—
Bechthold, Horst; and Bottger, Paul, B1 4,039,304, Cl. 55-10.000.

Brackmann, Warren A.; and Snaidr, Stanislav M., to Rothmans of Pall Mall Canada Limited. Feed mechanism for tobacco cutting machines. B1 4,369,797, 7-14-87, Cl. 131-109.300.

Brandolf, Henry E., to Multi-Arc Vacuum Systems Inc. Planetary substrate support apparatus for vapor vacuum deposition coating. B1 4,485,759, 2-10-87, Cl. 118-503.000.

Bridgeford, Douglas J., to Teepak Investments, Inc. Humidifying and shirring artificial sausage casing. B1 4,062,981, 7-14-87, Cl. 426-278.000.

Brigham Young University: *See*—
Novotny, Milos; Lee, Milton L.; Peaden, Paul A.; Fjeldsted, John C.; and Springston, Stephen R., B1 4,479,380, Cl. 73-61.10C.

Brooks, Edward F.: *See*—
Harbaugh, James B.; Brooks, Edward F.; and Alston, Norman A., B1 4,154,100, Cl. 73-861.660.

Brooks, Harry F.: *See*—
Malizio, Andrew B.; Rice, Martin A.; and Brooks, Harry F., B1 3,905,809, Cl. 420-578.000.

Brown, Delmont D.; and Rizza, Michael C., to D. S. Brown Company, The. Expansion joint sealing structures. B1 4,290,713, 1-13-87, Cl. 404-69.000.

Brown, Neil F., to G. H. Tennant Company. Pivotable section for bottom of hopper on sweeping machine. B1 3,540,070, 3-31-87, Cl. 15-83.000.

Brunisholz, Rudolf; and Kirchmayr, Rudolf, to Ciba-Geigy Corporation. Monoacetals or aromatic 1,2-diketones. B1 4,190,602, 5-19-87, Cl. 568-315.000.

Buchanan, Robert A., to Lockheed Missiles & Space Co., Inc. Automated radiographic inspection system. B1 4,415,980, 12-29-87, Cl. 378-58.000.

Burnes, Edward E.; and Bhatia, Kishan, to NL Industries, Inc. Process of removing hydrogen sulfide from gas mixtures. B1 4,515,758, 9-8-87, Cl. 423-220.000.

Campcore Inc.: *See*—
Fitzpatrick, John R., B1 3,820,292, Cl. 52-81.000.

Cannata, Vincenzo; and Tamerlani, Giancarlo, to Alfa Chemicals Italiana S.p.A. Process for the preparation of the d-2-(6-methoxy-2-naphthyl)-propionic acid. B1 4,423,244, 7-28-87, Cl. 562-466.000.

Carl Freudenberg, Firma: *See*—
Ringel, Wolfgang; Rutsch, Peter; Schneider, Rolf; and Kohl, Edgar, B1 4,056,375, Cl. 55-381.000.

Carlsen, John: *See*—
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Carpenter, Jerry A.: *See*—
Weetman, Ronald J.; Carpenter, Jerry A.; Coyle, Chandler K.; McDermott, Keith T.; and Voss, Roger N., B1 4,571,090, Cl. 366-270.000.

Caseley, Jane R., to Windleshaw Enterprises Limited. Filter for reducing the toxic effects of cigarette tobacco smoke. B1 4,532,947, 5-26-87, Cl. 131-331.000.

Caterpillar Tractor Co.: *See*—
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Cetus Corporation: *See*—
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Champion International: *See*—
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Chapman, Emmett H. Method of playing stringed musical instrument. B1 4,142,436, 7-21-87, Cl. 84-1.160.

Chapman, Ronald H., to Motorola, Inc. DC restoration amplifier with automatic zero offset adjustment. B1 3,846,710, 4-28-87, Cl. 330-11.000.

Chase-Shawmut Company, The: *See*—
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Chemische Werke Albert Aktiengesellschift: *See*—
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Chemische Werke Huls A.G.: *See*—
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Chen, Ching H.: *See*—
Chen, Jiann; and Chen, Ching H., B1 4,513,453, Cl. 2-150.000.

Chen, Jiann; and Chen, Ching H. Pre-tied necktie. B1 4,513,453, 12-8-87, Cl. 2-150.000.

Clark, Jacques A.; Heymes, Alain; and Blasioli, Carlo, to SANOFI. Naftidrofuryl citrate and therapeutic application. B1 4,439,442, 6-30-87, Cl. 514-471.000.

Christensen, Inc.: *See*—
Ostertag, Alfred, B1 4,194,582, Cl. 175-321.000.

Chua, Hua-Thye: *See*—
Birkner, John M.; and Chua, Hua-Thye, B1 4,124,899, Cl. 364-716.000.

Ciba-Geigy Corporation: *See*—
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Clad Metals, Inc.: *See*—
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Clifford, Roy: *See*—
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Contempart Originals, Inc.: *See*—
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Continental Oil Company: *See*—
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Coutinho de Assis, Ruy: *See*—
Valladares Barrocas, Helcio V.; de Castro M. da Silva, Joao B.; and Coutinho de Assis, Ruy, B1 4,232,179, Cl. 585-640.000.

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D. S. Brown Company, The: *See*—
Brown, Delmont D.; and Rizza, Michael C., B1 4,290,713, Cl. 404-69.000.

Dabich, Robert M. Easy lift pit lid. B1 4,467,932, 5-19-87, Cl. 220-18.000.

Davenport, John; and Russo, Michael A., to TI (Group Services) Limited. Controlling current density. B1 4,587,458, 12-22-87, Cl. 315-111.010.

Day, Joseph G., to Johnson Matthey & Co., Limited. Process for the recovery of platinum group metals from refractory ceramic substrates. B1 4,428,768, 12-8-87, Cl. 75-10.190.

Debor, Harald H. A., to S. W. Hooper & Company, Ltd. Discharger mechanism. B1 4,157,761, 8-18-87, Cl. 414-304.000.

de Castro M. da Silva, Joao B.: *See*—
Valladares Barrocas, Helcio V.; de Castro M. da Silva, Joao B.; and Coutinho de Assis, Ruy, B1 4,232,179, Cl. 585-640.000.

Delaware Capital Formation, Inc.: *See*—
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Delta Central Refining, Inc.: *See*—
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Deutsch, Ralph, to North American Rockwell Corporation. Digital organ. B1 3,515,792, 8-18-87, Cl. 84-1.030.

Devitt, John L.: *See*—
McClelland, Donald H.; and Devitt, John L., B1 3,862,861, Cl. 429-57.000.

Devries, Egbert, to Quad Corporation. Removal of odors from gas streams. B1 4,238,461, 5-19-87, Cl. 423-210.000.

Dichiara, Anthony J. Quick-connect vent tube structure. B1 3,736,966, 2-3-87, Cl. 141-392.000.

Diebel, Klaus; Wulf, Horst-Dieter; Grundmann, Raban; and Maahs, Gunther, to Chemische Werke Huls A.G. Process for the manufacture of heat-stable, nuclear-brominated polystyrenes. B1 4,200,703, 7-14-87, Cl. 525-340.000.

Don Badische Company: *See*—
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Donn-Incorporated: *See*—
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Drackett Company, The: *See*—
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Dunbar, Robert A.: *See*—
Blissett, Kitson; and Dunbar, Robert A., B1 4,346,427, Cl. 361-173.000.

Du Pont de Nemours, E. I. and Company: *See*—
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Su, Aaron C. L., B1 4,461,872, Cl. 525-240.000.

Duz-Mor, Inc.: *See*—
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Dyonics, Inc.: *See*—
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Eaton Corporation: *See*—
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Eckerle, Joseph S. High efficiency electrical power conditioner. B1 4,042,890, 4-28-87, Cl. 330-207.00A.

Eis, Frederick G., to American Sugar Company. Method and apparatus for separating liquids from solids. B1 3,523,889, 6-2-87, Cl. 210-709.000.

Electro-Biology, Inc.: *See*—
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Electro-Plasma, Inc.: *See*—
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Eley, James M.; and Joyce, Arthur B., to Tyrone Hydraulics, Inc. Hydraulic pump control system. B1 3,935,917, 6-9-87, Cl. 180-53.400.

Elmlinger, Eugene L.: *See*—
Tonges, Gerald A.; and Elmlinger, Eugene L., B1 4,175,774, Cl. 283-94.000.

Emmett, Robert C., Jr., to Envirotech Corporation. Thickening device and method. B1 4,055,494, 2-10-87, Cl. 210-715.000.

Engelhardt, Edward L., to Merck & Co., Inc. Method of treating depression with 5-(3-dimethylaminopropylidene)dibenzo[a,d] [1,4]cycloheptadiene or its non-toxic salts thereof. B1 3,428,735, 2-24-87, Cl. 514-657.000.

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Essex International, Inc.: *See*—
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Expand-A-Line, Incorporated: *See*—
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Exxon Production Research Co.: *See*—
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F. P. Licensing Co., Inc.: *See*—
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Fan, Roxy N., to Du Pont de Nemours, E. I. and Company. Process for image reproduction using multilayer photosensitive solvent processable elements. B1 4,053,313, 11-3-87, Cl. 430-270.000.

Farmer, Diane B.: *See*—
Farmer, M. Zane; and Farmer, Diane B., B1 4,572,253, Cl. 141-95.000.

Farmer, M. Zane; and Farmer, Diane B. Automatic level sensing system. B1 4,572,253, 7-7-87, Cl. 141-95.000.

Farmitalia Carlo Erba S.p.A.: *See*—
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Field, Carl R., to Duz-Mor, Inc. Apparatus for repairing and straightening vehicles. B1 4,574,614, 3-10-87, Cl. 72-447.000.

Finucane, Raymond G.; and Jahns, Hans O., to Exxon Production Research Co. Ice barrier construction. B1 4,523,879, 3-24-87, Cl. 405-217.000.

Fitzpatrick, John R., to Campcore Inc. Building structure. B1 3,820,292, 2-3-87, Cl. 52-81.000.

Fjeldsted, John C.: *See*—
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Flounders, James M., to American Biltrite Rubber Co., Inc. High pressure hose. B1 3,540,486, 10-13-87, Cl. 285-156.000.

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Foglio, Maurizio; Franceschi, Giovanni; Scarafile, Cosimo; Arcamone, Federico; and Sanfilippo, Aurora, to Farmitalia Carlo Erba S.p.A. β-lactam-containing antibacterial agents and β-lactamase inhibitors. B1 4,482,565, 11-3-87, Cl. 514-192.000.

Forehand, Sherman D.: *See—*
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Form Physics Corp.: *See—*
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Fortel Inc.: *See—*
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Hanscom, Bradford E., B1 4,451,707, Cl. 179-84.00R.
Fox, Daniel W.; and Wambach, Allen D., to General Electric Company. Polyester alloys and molding compositions containing the same. B1 3,953,394, 6-2-87, Cl. 524-86.000.
Franceschi, Giovanni: *See—*
Foglio, Maurizio; Franceschi, Giovanni; Scarafile, Cosimo; Arcamone, Federico; and Sanfilippo, Aurora, B1 4,482,565, Cl. 514-192.000.
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Frankel, Arthur E.; Johnson, Larry J.; and Wennberg, Timothy J., to Cetus Corporation. Bi-directional liquid sample handling system. B1 4,555,957, 12-22-87, Cl. 73-864.140.
Frazier, Albert A.; and Phillips, Howard W., to Aladdin Industries, Incorporated. Vacuum bottle with air pump to pressurized bottle to effect dispensing. B1 4,113,147, 6-9-87, Cl. 222-131.000.
Fuji Photo Film Co., Ltd.: *See—*
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General Signal Corp.: *See—*
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Giblin, John P.; Semancik, Andrew E.; and Forehand, Sherman D., to Champion International. Report cover. B1 4,575,123, 9-29-87, Cl. 281-48.000.
Gibson, William H.: *See—*
Herbers, Dennis M.; and Gibson, William H., B1 4,163,923, Cl. 315-208.000.
Giffen, William M.; Pollitt, John M.; and Clifford, Roy, to Auto Restraint Systems Limited. Seat-belt apparatus. B1 4,040,645, 7-7-87, Cl. 280-803.000.
Gillette Company, The: *See—*
Trotta, Robert A., B1 4,407,067, Cl. 30-50.000.
Goglio, Luigi, to Flexible Packaging Research and Consulting. Degassing valve for hermetically sealed flexible containers and a container provided with the valve. B1 3,799,427, 2-3-87, Cl. 383-103.000.
Goode, Richard L., to Innovative Hearing Corporation. Ear acoustical hearing aid. B1 4,556,122, 8-18-87, Cl. 181-136.000.
Gordon, Phillip B., Jr.; and Hunt, Keats E., to Caterpillar Tractor Co. Ebullient cooled turbocharger bearing housing. B1 1,030,333, 3-3-87, Cl. 60-605.000.
Gottlieb, Nathan. Self-contained activated slide apparatus and methods of constructing and utilizing same. B1 3,994,539, 2-10-87, Cl. 384-49.000.
Gould, Gordon. Optically pumped laser amplifiers. B1 4,053,845, 4-28-87, Cl. 330-4.300.
Grieder, Traugott: *See—*
von Ballmoos, Fritz; Grieder, Traugott; Grohmann, Herbert; and Gutmann, Rolf, B1 3,845,351, Cl. 315-293.000.
Griffin, Wendell L.; Carlsen, John; and Benasutti, John E., to GTE Products Corporation. Elastomeric fiber optic splice. B1 4,257,674, 7-7-87, Cl. 350-96.210.
Grohe, Klaus; Petersen, Uwe; Zeiler, Hans-Joachim; and Metzger, Karl G., to Bayer Aktiengesellschaft. 7-amino-1-cyclopropyl-6,8-difluoro-1,4-dihydro-4-oxo-quinoline-3-carboxylic acids and antibacterial agents containing these compounds. B1 4,556,658, 9-15-87, Cl. 514-254.000.
Grohmann, Herbert: *See—*
von Ballmoos, Fritz; Grieder, Traugott; Grohmann, Herbert; and Gutmann, Rolf, B1 3,845,351, Cl. 315-293.000.
Grundmann, Raban: *See—*
Diebel, Klaus; Wulf, Horst-Dieter; Grundmann, Raban; and Maahs, Gunther, B1 4,200,703, Cl. 525-340.000.
GTE Products Corporation: *See—*
Griffin, Wendell L.; Carlsen, John; and Benasutti, John E., B1 4,257,674, Cl. 350-96.210.
Gurley, Grey M., to AMP Incorporated. Electrical connecting device for insulated wires. B1 3,760,331, 6-2-87, Cl. 339-36.000.
Gusack, James A.; Stephens, Bernard B.; and Stevens, James A., to Don Badische Company. Continuous evaluation of yarn crimp. B1 3,762,220, 7-21-87, Cl. 73-160.000.
Gutmann, Rolf: *See—*
von Ballmoos, Fritz; Grieder, Traugott; Grohmann, Herbert; and Gutmann, Rolf, B1 3,845,351, Cl. 315-293.000.
Haglund, William A.; and Reiling, Theodore P. Perennial weed control by deep placement of volatile soil fumigants. B1 3,964,405, 7-7-87, Cl. 111-6.000.
Hall, Randall C., to Purdue Research Foundation. Electrolytic conductivity detector system. B1 4,032,296, 1-20-87, Cl. 422-89.000.
Halse, Per W., to Moore Business Forms, Inc. Continuous business forms assembly. B1 4,113,281, 3-17-87, Cl. 282-11.50A.
Halse, Per W., to Moore Business Forms, Inc. Continuous business forms assembly. B1 4,168,851, 3-17-87, Cl. 282-11.50A.
Halse, Per W., to Moore Business Forms, Inc. Continuous stationery assemblies. B1 4,178,018, 3-17-87, Cl. 282-11.50A.
Hamilton, James C. Shoe repair device. B1 4,166,328, 9-15-87, Cl. 36-72.00R.
Hanscom, Bradford E., to Fortel Inc. Ring detector and telephone line monitoring system for telephone answering instrument. B1 4,451,707, 1-20-87, Cl. 179-84.00R.
Harbaugh, James B.; Brooks, Edward F.; and Alston, Norman A., to Delaware Capital Formation, Inc. Method and apparatus for stabilizing the flow coefficient for pitot-type flowmeters with a downstream-facing port. B1 4,154,100, 11-3-87, Cl. 73-861.660.
Hardee, Kim C., to Immos Corporation. Method of making single poly memory cell. B1 4,486,944, 12-15-87, Cl. 437-52.000.
Harris, Gerald R. Band saw apparatus and method. B1 4,558,614, 3-31-87, Cl. 83-56.000.
Hausler, Rudolf H.; and Thompson, Neil E. S., to Petrolite Corporation. Mercapto-polycarboxylic acids. B1 4,495,336, 5-19-87, Cl. 252-8.555.
Havens, Carl B., to Dow Chemical Co., The. Thermoplastic film with integral ribbed pattern and bag therefrom. B1 4,315,963, 9-8-87, Cl. 428-35.000.
Haworth Mfg. Inc.: *See—*
Wilson, Harold R.; and Tillmann, Dutmar K., B1 4,367,370, Cl. 174-48.000.
Healey, Daniel P., Jr., to Chase-Shawmut Company, The. Electric fuse having a multiply casing of a synthetic-resin glass-cloth laminate. B1 3,979,709, 10-13-87, Cl. 337-186.000.
Heimlich, Philip F., to Himedic Inc. Flowable material dispenser. B1 4,579,256, 11-3-87, Cl. 222-162.000.
Herbers, Dennis M.; and Gibson, William H. Variable duty cycle lamp circuit. B1 4,163,923, 5-12-87, Cl. 315-208.000.
Hesston Corporation: *See—*
Adee, Raymond A., B1 4,066,274, Cl. 280-411.00A.
Heymes, Alain: *See—*
Chick, Jacques A.; Heymes, Alain; and Biasioli, Carlo, B1 4,439,442, Cl. 514-471.000.
Hilmer, Ralph H.: *See—*
Anderson, Gordon K.; Evans, Richard A.; and Hilmer, Ralph H., B1 3,399,545, Cl. 62-237.000.
Himedic Inc.: *See—*
Heimlich, Philip F., B1 4,579,256, Cl. 222-162.000.
Hoechst-Roussel Pharmaceuticals Inc.: *See—*
Strupczewski, Joseph T.; Gardner, Beth A.; and Allen, Richard C., B1 4,408,054, Cl. 546-226.000.
Hoffmann-La Roche Inc.: *See—*
Aschwanden, Werner; and Kyburz, Emilio, B1 4,476,308, Cl. 546-208.000.
Holland, Thomas K.: *See—*
Howes, Bruce; and Holland, Thomas K., B1 3,966,396, Cl. 8-471.000.
Hollowell, William, to American Safety Equipment Corp. Easily assembled seat belt retractor and method. B1 4,562,977, 12-15-87, Cl. 242-107.40D.
Holmes, Donald E.: *See—*
Larsen, Raymond B.; and Holmes, Donald E., B1 3,900,094, Cl. 400-124.000.
Horton Co., The: *See—*
Horton, Lowell C., B1 4,373,058, Cl. 524-705.000.
Horton, Lowell C., to Horton Co., The. Polymer concrete comprising furfuryl alcohol resin. B1 4,373,058, 2-10-87, Cl. 524-705.000.
Hosch, Ludwig, to Rohm GmbH. Method for polymerizing methyl methacrylate. B1 4,550,136, 6-30-87, Cl. 524-718.000.
Hoshikawa, Toru; and Osaki, Yoshihiko, to Mitsubishi Denki Kabushiki Kaisha; and Toyo Tanso Co., Ltd. Inductive heating device having a plurality of heating coil units. B1 4,503,304, 10-13-87, Cl. 219-10.49R.
Hostetler, Eldon, to Ziggity Systems, Inc. Watering system for fowl and small animals. B1 4,491,088, 3-31-87, Cl. 119-72.500.
Howes, Bruce; and Holland, Thomas K., to F. P. Licensing Co., Inc. Textile printing process and transfer medium. B1 3,966,396, 5-5-87, Cl. 8-471.000.
Hunt, Keats E.: *See—*
Gordon, Phillip B., Jr.; and Hunt, Keats E., B1 1,030,333, Cl. 60-605.000.
Huntington Alloys, Inc.: *See—*
Smith, Darrell F., Jr.; and Clatworthy, Edward F., B1 4,445,944, Cl. 148-12.300.
Hutson, Harold K., to Knytex Proform. Biased multi-layer structural fabric composites stitched in a vertical direction and process and apparatus for making same. B1 4,484,459, 6-2-87, Cl. 66-84.00A.
IJR Inc.: *See—*
Inoue, Kiyoshi, B1 3,536,881, Cl. 219-69.00G.
Imada, Isuke: *See—*
Morimoto, Hiroshi; Imada, Isuke; Watanabe, Masazumi; and Kawada, Mitsuru, B1 4,407,757, Cl. 260-413.000.

nhof, Werner, to Pensalux S.A. Machine tool. B1 4,520,551, 10-13-87, Cl. 29-568.000.
mmos Corporation. *See*—
Hardee, Kim C., B1 4,486,944, Cl. 437-52.000.
nnovative Hearing Corporation. *See*—
Goode, Richard L., B1 4,556,122, Cl. 181-136.000.
noue, Kiyoshi, to IJR Inc. Constant current density EDM system capable of automatically responding to changing machining area. B1 3,536,881, 7-14-87, Cl. 219-69.00G.
nstitut Francais du Petrole. *See*—
Wittrisch, Christian, B1 4,457,370, Cl. 166-250.000.
ntalite International. *See*—
Taylor, John L., B1 4,034,534, Cl. 52-668.000.
nternational Business Machines Corporation. *See*—
Queener, Carl A., B1 3,647,293, Cl. 355-15.000.
ioh, Tadanao. *See*—
Mitamura, Ryota; and Itoh, Tadanao, B1 4,157,728, Cl. 164-452.000.
J. Eaton & Company, Inc.. *See*—
Baker, Stanley Z.; and Baker, Benjamin H., B1 4,438,584, Cl. 43-58.000.
ackson, Harold P., to McDonough Power Equipment, Inc. Grass catcher assembly. B1 3,716,977, 10-13-87, Cl. 56-202.000.
ahns, Hans O.. *See*—
Finucane, Raymond G.; and Jahns, Hans O., B1 4,523,879, Cl. 405-217.000.
ain, Chandra P.; and Shu, Frank R., to Beckman Instruments, Inc. Albumin reagent and assay. B1 4,330,296, 6-9-87, Cl. 436-88.000.
ohnson, Douglas M., to Fluoroware, Inc. Reinforced wafer basket. B1 3,961,877, 11-3-87, Cl. 432-253.000.
ohnson, Lanny L.. *See*—
Bennell, Leonard J.; McHugh, Edward H.; Sjostrom, Douglas D.; and Johnson, Lanny L., B1 4,203,444, Cl. 604-22.000.
ohnson, Larry J.. *See*—
Frankel, Arthur E.; Johnson, Larry J.; and Wennberg, Timothy J., B1 4,555,957, Cl. 73-864.140.
ohnson Matthey & Co., Limited. *See*—
Day, Joseph G., B1 4,428,768, Cl. 75-10.190.
ohnson, William C.; Rasmussen, David H.; and Lee, Richard H., to AG-Bag Corporation. Agricultural bag loading apparatus. B1 4,337,805, 10-20-87, Cl. 141-71.000.
orgensen, Paul J.. *See*—
Bartlett, Robert W.; and Jorgensen, Paul J., B1 4,483,720, Cl. 148-6.300.
oyce, Arthur B.. *See*—
Eley, James M.; and Joyce, Arthur B., B1 3,935,917, Cl. 180-53.400.
ung, Werner, to Katrapat AG. Device for carrying flexible cables or pipes from a fixed connection point to a mobile consumer by means of a flexible tube. B1 3,957,084, 2-10-87, Cl. 138-122.000.
Kabushiki Kaisha Sunpak. *See*—
Kamon, Akio; Nagashima, Sakyo; and Tsuruta, Yuzo, B1 4,329,624, Cl. 315-151.000.
Kamon, Akio; Nagashima, Sakyo; and Tsuruta, Yuzo, to Kabushiki Kaisha Sunpak. Computer type electronic photoflash. B1 4,329,624, 7-7-87, Cl. 315-151.000.
Kaneko, Thomas M., to BASF Wyandotte Corporation. Liquified normally solid polyoxyalkylene block copolymers. B1 4,351,753, 7-28-87, Cl. 252-357.000.
Karageozian, Hampar L.; and Rudko, Paul, to Allergan Caribbean. Method of removing proteinaceous deposits from contact lenses. B1 3,910,296, 4-14-87, Cl. 134-42.000.
Katrapat AG. *See*—
Jung, Werner, B1 3,957,084, Cl. 138-122.000.
Kawada, Mitsuru. *See*—
Morimoto, Hiroshi; Imada, Isuke; Watanabe, Masazumi; and Kawada, Mitsuru, B1 4,407,757, Cl. 260-413.000.
Kearney & Trecker Corporation. *See*—
Schachte, John J., B1 3,483,767, Cl. 74-395.000.
Kelly, John G.. *See*—
Lorenc, Walter F.; Kelly, John G.; and Mandel, Fredrick S., B1 4,457,847, Cl. 210-698.000.
Keystone International, Inc.. *See*—
Scobie, William B., B1 4,457,490, Cl. 251-174.000.
Kimbell, Charles L. Gas detector. B1 3,464,799, 7-14-87, Cl. 422-91.000.
Kirchmayr, Rudolf. *See*—
Brunisholz; and Kirchmayr, Rudolf, B1 4,190,602, Cl. 568-315.000.
Kiritani, Masataka, to Fuji Photo Film Co., Ltd. Pressure-sensitive recording sheet with microcapsules having polyurea walls. B1 3,900,669, 8-4-87, Cl. 346-215.000.
Klein, Paul E., to Modcom, Inc. Orthodontic apparatus including unitary dispenser and dispensed articles. B1 4,038,753, 6-9-87, Cl. 433-18.000.
Knytex Proform. *See*—
Hutson, Harold K., B1 4,484,459, Cl. 66-84.00A.
Kohl, Edgar. *See*—
Ringel, Wolfgang; Rutsch, Peter; Schneider, Rolf; and Kohl, Edgar, B1 4,056,375, Cl. 55-381.000.
Kostelitz, Michel; and Queille, Philippe, to L'Air Liquide, Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude. Method of carburizing workpiece. B1 4,519,853, 12-29-87, Cl. 148-16.500.
Kremith, Roland D.. *See*—
Muehlberger, Erich; and Kremith, Roland D., B1 4,328,257, Cl. 427-34.000.
Kroy Inc.. *See*—
Luartes, Cleto R.; and Powell, William H., Jr., B1 4,462,708, Cl. 400-304.000.
Kubota Tekko Kabushiki Kaisha. *See*—
Murayama, Yoshinobu; Sada, Kenzou; and Kutomi, Mitsuhiro, B1 3,980,151, Cl. 180-261.000.
Kung, Shiu H., to Evans, Pat. Fire extinguisher and fire extinguishing composition. B1 4,226,728, 8-4-87, Cl. 252-8.000.
Kurt, Pauker. *See*—
Voland, Elmo W.; Simmons, Harold T.; and Kurt, Pauker, B1 3,727,015, Cl. 200-38.00R.
Kutomi, Mitsuhiro. *See*—
Murayama, Yoshinobu; Sada, Kenzou; and Kutomi, Mitsuhiro, B1 3,980,151, Cl. 180-261.000.
Kwolek, John P.. *See*—
Rhee, Seong K.; and Kwolek, John P., B1 3,835,118, Cl. 523-155.000.
Kyburz, Emilio. *See*—
Aschwanden, Werner; and Kyburz, Emilio, B1 4,476,308, Cl. 546-208.000.
LaCamera, Alfred F.. *See*—
Phelps, Frankie E.; Francis, Thomas L.; and LaCamera, Alfred F., B1 4,499,193, Cl. 501-98.000.
L'Air Liquide, Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude. *See*—
Kostelitz, Michel; and Queille, Philippe, B1 4,519,853, Cl. 148-16.500.
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr. Proofers for bread products and conveyor systems which are adapted to use therein. B1 3,440,973, 1-6-87, Cl. 99-483.000.
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr. Conveyor system. B1 3,680,493, 1-6-87, Cl. 34-207.000.
Lanham, William E., Jr.. *See*—
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr., B1 3,440,973, Cl. 99-483.000.
Lanham, William E.; Miller, Gene C.; and Lanham, William E., Jr., B1 3,680,493, Cl. 34-207.000.
Lanier Business Products, Inc.. *See*—
Plunkett, Luther C., Jr., B1 4,500,753, Cl. 179-6.030.
Larsen, Raymond B.; and Holmes, Donald E., to Eaton Corporation. Matrix printer with overlapping print dots. B1 3,900,094, 5-5-87, Cl. 400-124.000.
Lear Siegler, Inc.. *See*—
Anderson, Gordon K.; Evans, Richard A.; and Hilmer, Ralph H., B1 3,399,545, Cl. 62-237.000.
Lee, Maw H.. *See*—
Louis, Timothy R.; Gedeon, Carl A.; Lee, Maw H.; and Erjavec, Eugene V., B1 4,414,634, Cl. 364-510.000.
Lee, Milton L.. *See*—
Novotny, Milos; Lee, Milton L.; Peaden, Paul A.; Fjeldsted, John C.; and Springston, Stephen R., B1 4,479,380, Cl. 73-61.10C.
Lee, Richard H.. *See*—
Johnson, William C.; Rasmussen, David H.; and Lee, Richard H., B1 4,337,805, Cl. 141-71.000.
Lex Tex Ltd.. *See*—
Scragg, Ernest P. R., B1 3,472,011, Cl. 57-290.000.
Lockheed Missiles & Space Co., Inc.. *See*—
Buchanan, Robert A., B1 4,415,980, Cl. 378-58.000.
Long, Stapleton, to Berkline Corporation, The. Settee. B1 8,269,745, 4-7-87, Cl. D6-381.000.
Lorenc, Walter F.; Kelly, John G.; and Mandel, Fredrick S., to Nalco Chemical Company. Carboxylate polymers for internal scale control agents in boiler systems. B1 4,457,847, 12-8-87, Cl. 210-698.000.
Louis, Timothy R.; Gedeon, Carl A.; Lee, Maw H.; and Erjavec, Eugene V., to Scott & Fetzer Company, The. Fluid flow totalizer. B1 4,414,634, 11-10-87, Cl. 364-510.000.
Luartes, Cleto R.; and Powell, William H., Jr., to Kroy Inc. Automated tape lettering machine. B1 4,462,708, 8-4-87, Cl. 400-304.000.
Lucius, John E., to AMP Incorporated. Insulation displacement terminal. B1 4,385,794, 11-10-87, Cl. 439-399.000.
Lykes Pasco Packing Co. Dispenser Manufacturing Div.. *See*—
Nottke, James E.; and Ruebel, Jack K., B1 4,194,650, Cl. 222-57.000.
Maahs, Gunther. *See*—
Diebel, Klaus Wulf, Horst-Dieter; Grundmann, Raban; and Maahs, Gunther, B1 4,200,703, Cl. 525-340.000.
MacPherson, John A.. *See*—
Adee, James M.; and MacPherson, John A., B1 4,225,345, Cl. 419-36.000.
Malizio, Andrew B.; Rice, Martin A.; and Brooks, Harry F., to United States Pipe and Foundry Company. Alloy for making ductile iron. B1 3,905,809, 8-18-87, Cl. 420-578.000.
Mandel, Fredrick S.. *See*—
Lorenc, Walter F.; Kelly, John G.; and Mandel, Fredrick S., B1 4,457,847, Cl. 210-698.000.
Manning, Michael R., to Electro-Biology, Inc. Bioelectrochemical regenerator and stimulator devices and methods for applying electrical energy to cells and/or tissue in a living body. B1 3,893,462, 3-24-87, Cl. 128-421.000.
Martin, William L.. *See*—
Willhite, Glen Paul; and Martin, William L., B1 3,511,282, Cl. 138-113.000.
Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. *See*—
Bechthold, Horst; and Bottger, Paul, B1 4,039,304, Cl. 55-10.000.
Matsouka, Earl. *See*—
Rosenthal, Ben J.; and Matsouka, Earl, B1 3,760,669, Cl. 83-63.000.

Matsumoto, Hiroyaki, to Tsukasa Kasei Kogyo Kabushiki Kaisha. Polypropylene strap and method of manufacturing the same. B1 4,503,007, 3-10-87, Cl. 264-210.700.

Matsumoto, Hiroyuki, to Tsukasa Kasei Kogyo Kabushiki Kaisha. Polypropylene strap and method of manufacturing the same. B1 4,451,524, 11-10-87, Cl. 428-213.000.

McClelland, Donald H.; and Devitt, John L., to Gates Rubber Company, The. Maintenance-free type lead acid. B1 3,862,861, 4-7-87, Cl. 429-57.000.

McDermott, Keith T.: *See*—
Weetman, Ronald J.; Carpenter, Jerry A.; Coyle, Chandler K.; McDermott, Keith T.; and Voss, Roger N., B1 4,571,090, Cl. 366-270.000.

McDonough Power Equipment, Inc.: *See*—
Jackson, Harold P., B1 3,716,977, Cl. 56-202.000.

McHugh, Edward H.: *See*—
Bonnell, Leonard J.; McHugh, Edward H.; Sjostrom, Douglas D.; and Johnson, Lanny L., B1 4,203,444, Cl. 604-22.000.

Merck & Co., Inc.: *See*—
Engelhardt, Edward L., B1 3,428,735, Cl. 514-657.000.

Metzger, Karl G.: *See*—
Grohe, Klaus; Petersen, Uwe; Zeiler, Hans-Joachim; and Metzger, Karl G., B1 4,556,658, Cl. 514-254.000.

Micro Motion, Inc.: *See*—
Smith, James E., B1 4,422,338, Cl. 73-861.380.

Miller, Gene C.: *See*—
Lanham, William E.; Miller, Gene C., and Lanham, William E., Jr., B1 3,440,973, Cl. 99-483.000.
Lanham, William E.; Miller, Gene C. and Lanham, William E., Jr., B1 3,680,493, Cl. 34-207.000.

Millet, Claude: *See*—
Bargain, Michel; and Millet, Claude, B1 4,138,543, Cl. 528-14.000.

Minigrip Inc.: *See*—
Noguchi, Takashi, B1 3,945,872, Cl. 156-244.240.

Mirowski, Mieczyslaw: Standby defibrillator and method of operation. B1 1,027,757, 3-10-87, Cl. 128-419.00D.

Mirowski, Mieczyslaw; Mower, Morton M.; and Denniston, Rollin H., III, to Mirowski, Mieczyslaw. Cardioverting device having single intravascular catheter electrode system and method for its use. B1 3,942,536, 3-24-87, Cl. 128-419.00D.

Mitamura, Ryota; and Itoh, Tadanao, to Showa Denko Kabushiki Kaisha. Process for direct chill casting of metals. B1 4,157,728, 6-9-87, Cl. 164-452.000.

Mitsubishi Denki Kabushiki Kaisha: *See*—
Hoshikawa, Toru; and Osaki, Yoshihiko, B1 4,503,304, Cl. 219-10.49R.

Modcom, Inc.: *See*—
Klein, Paul E., B1 4,038,753, Cl. 433-18.000.

Moehlenpah Industries, Inc.: *See*—
Moehlenpah, Walter G., B1 3,951,033, Cl. 411-468.000.

Moehlenpah, Walter G., to Moehlenpah Industries, Inc. Connector plate. B1 3,951,033, 7-7-87, Cl. 411-468.000.

Mohler, Werner; Reiser, Mario; and Popendiker, Kurt, to Chemische Werke Albert Aktiengesellschift. Certain oxoalkyldimethylxanthines. B1 3,737,433, 3-10-87, Cl. 544-271.000.

Monolithic Memories, Inc.: *See*—
Birkner, John M.; and Chua, Hua-Thye, B1 4,124,899, Cl. 364-716.000.

Moore Business Forms, Inc.: *See*—
Halse, Per W., B1 4,113,281, Cl. 282-11.50A.
Halse, Per W., B1 4,168,851, Cl. 282-11.50A.
Halse, Per W., B1 4,178,018, Cl. 282-11.50A.

Morimoto, Hiroshi; Imada, Isuke; Watanabe, Masazumi; and Kawada, Mitsuru, to Takeda Chemical Industries, Ltd. Aralkyl carboxylic acid compounds. B1 4,407,757, 3-10-87, Cl. 260-413.000.

Morita, Tamao, to Application Art Laboratories Co., Ltd. Magnetic lock closure. B1 4,021,891, 9-8-87, Cl. 24-303.000.

Motorola, Inc.: *See*—
Chapman, Ronald H., B1 3,846,710, Cl. 330-11.000.

Mower, Morton M.: *See*—
Mirowski, Mieczyslaw; Mower, Morton M.; and Denniston, Rollin H., III, B1 3,942,536, Cl. 128-419.00D.

Muehlberger, Erich; and Kremith, Roland D., to Electro-Plasma, Inc. System and method for plasma coating. B1 4,328,257, 9-1-87, Cl. 427-34.000.

Mullenberg, Ralph. Clamping assembly. B1 3,958,888, 2-3-87, Cl. 403-13.000.

Multi-Arc Vacuum Systems Inc.: *See*—
Brandolf, Henry E., B1 4,485,759, Cl. 118-503.000.

Munk, Michael: *See*—
Boochever, Evelyn; and Munk, Michael, B1 4,042,016, Cl. 165-20.000.

Murayama, Yoshinobu; Sada, Kenzou; and Kutomi, Mitsuhiro, to Kubota Tekko Kabushiki Kaisha. Front wheel drive assembly for four-wheel drive tractor. B1 3,980,151, 10-20-87, Cl. 180-261.000.

Nagashima, Sakyo: *See*—
Kamon, Akio; Nagashima, Sakyo; and Tsuruta, Yuzo, B1 4,329,624, Cl. 315-151.000.

Nalco Chemical Company: *See*—
Lorenc, Walter F.; Kelly, John G.; and Mandel, Fredrick S., B1 4,457,847, Cl. 210-698.000.

Neuwirth, Siegmund A. Dental reducing tool. B1 4,264,307, 6-2-87, Cl. 433-166.000.

New Balance Athletic Shoe, Inc.: *See*—
Norton, Edward J.; Oparowski, Paul; and Belavitch, Alphonse L., B1 4,451,996, Cl. 36-129.000.

NL Industries, Inc.: *See*—
Burnes, Edward E.; and Bhatia, Kishan, B1 4,515,759, Cl. 423-220.000.

Noguchi, Takashi, to Minigrip Inc. Making plastic film with profiles and opening means for bags. B1 3,945,872, 5-5-87, Cl. 156-244.240.

North American Rockwell Corporation: *See*—
Deutsch, Ralph, B1 3,515,792, Cl. 84-1.030.

Norton, Edward J.; Oparowski, Paul; and Belavitch, Alphonse L., to New Balance Athletic Shoe, Inc. Athletic shoe with collar. B1 4,451,996, 8-4-87, Cl. 36-129.000.

Norwich, Daniel, to Telecredit Inc. Telephone scheduling system. B1 3,989,899, 12-15-87, Cl. 379-134.000.

Nottke, James E.; and Ruebel, Jack K., to Lykes Pasco Packing Co. Dispenser Manufacturing Div. Liquid mixing and aerating system. B1 4,194,650, 8-25-87, Cl. 222-57.000.

Novotny, Milos; Lee, Milton L.; Peaden, Paul A.; Fjeldsted, John C.; and Springston, Stephen R., to Brigham Young University. Open-tubular supercritical fluid chromatography. B1 4,479,380, 6-2-87, Cl. 73-61.10C.

O'Blasny, Richard H., to Delta Central Refining, Inc. Rerefining used lubricating oil with hydride reducing agents. B1 4,439,311, 9-22-87, Cl. 208-179.000.

O'Blasny, Richard H., to Delta Central Refining, Inc. Rerefining used oil with borohydride reducing agents. B1 4,504,383, 9-22-87, Cl. 208-179.000.

O'Brien, James E.: *See*—
Wurst, John W.; and O'Brien, James E., B1 3,815,531, Cl. 112-220.000.

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O'Keefe, Thomas J., to University of Missouri, The Curators of the. Method for evaluating a system for electrodeposition of metals. B1 4,146,437, 7-14-87, Cl. 204-1.00T.

Olsen, Richard G., to Ohio State University Research Foundation, The. Method of recovering cell antigen and preparation of feline leukemia vaccine therefrom. B1 4,434,157, 12-29-87, Cl. 424-89.000.

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Albertson, Robert V., to Burd, Bartz & Gutenkauf. Coin operated box telephone unit. 289,159, 4-7-87, Cl. D14-55.000.
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Allen, James H., to 'totes', Incorporated. Combined club bag and sport bag. 292,747, 11-17-87, Cl. D3-48.000.
Allen, James H., to 'totes', Incorporated. Combined briefcase and overnight case. 292,748, 11-17-87, Cl. D3-71.000.
Allen, James H., to 'totes', Incorporated. Suitcase. 292,749, 11-17-87, Cl. D3-71.000.
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Ares, Roland A.; and Maechler, Dennis R., to Hussmann Corporation. Air cooled refrigeration condenser. 288,892, 3-24-87, Cl. D23-139.000.
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Asaki, James T.; and Gault, Robert L., to ITT Corporation. Desk telephone set. 288,809, 3-17-87, Cl. D14-53.000.

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Doezema, William, 290,565, Cl. D6-484.000.
Doezema, William, 292,458, Cl. D6-484.000.
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Baker, Stanley Z.; Baker, Bart M.; and Baker, Benjamin H., to J. T. Eaton & Company, Inc. Tamper proof rodent bait station. 289,315, 4-14-87, Cl. D22-119.000.
Bakic, Karena, to Cosmede Anstalt. Cosmetic compact. 290,175, 6-2-87, Cl. D28-77.000.
Bakic, Karena, to Cosmede Anstalt. Cosmetic case. 291,609, 8-25-87, Cl. D28-83.000.
Bakula, Mark S.; Doman, Donald W.; Ellingen, David R.; Hopp, Gene P.; Malek, Keith R.; Michalski, Steven E.; Pacetti, Larry D.; Pagac, William T.; Wente, Steven R.; and Zuzinec, Raymond R., Sr., to Snap-on Tools Corporation. Timing light. 292,893, 11-24-87, Cl. D10-112.000.

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Albertini, Rocco D.; McClellan, Arthur W.; Kokoszka, Stephen A.; and Girten, Patrick C., 290,947, Cl. D12-215.000.
Baldwin, Steve, to Baldwin, Steve. Game board. 288,338, 2-17-87, Cl. D21-20.000.
Balek, Lynn A. Auxiliary vehicle gas tank. 290,452, 6-23-87, Cl. D12-155.000.
Balek, Lynn A. Auxiliary vehicle gas tank. 290,829, 7-14-87, Cl. D12-155.000.
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Ball, Andrew S.; and Madden, John H., to Visa International Service Association. Transaction card. 290,136, 6-2-87, Cl. D19-9.000.
Ball, Joyce A.; and McKettrick, Glen W. Electrically heated comforter or the like. 290,918, 7-21-87, Cl. D6-603.000.
Ball, Randell D. Lawn sprinkler locator. 288,058, 2-3-87, Cl. D8-1.000.
Bambury, Colin P., to Woodley, Wayne D. Paint brush. 288,987, 3-31-87, Cl. D4-127.000.
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League, Joseph C., Jr.; Terrell, Brian H.; and Jova, Henri V., 288,611, Cl. D25-26.000.
Banko, Ronald C., to Ron Banko Designs, Inc. Telephone. 291,438, 8-18-87, Cl. D14-53.000.
Baptiste, Trevor I. Pair of eye glasses. 292,101, 9-29-87, Cl. D16-104.000.
Baptiste, Trevor I. Monacle. 292,411, 10-20-87, Cl. D16-107.000.
Barber, Gerald L.; and Comstock, Wayne F. Front section for a telescoping living compartment. 288,610, 3-3-87, Cl. D25-16.000.
Barber, Steven C. Modular work table. 290,198, 6-9-87, Cl. D6-422.000.
Barbera, Lawrence E.; and Mathis, Barry R., to Hewlett-Packard Company. Computer mouse. 288,930, 3-24-87, Cl. D14-114.000.
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Barcus, Jack W. Combined mirror and picture frame. 289,111, 4-7-87, Cl. D6-302.000.
Bardeau, William M., to Cleveland Range Ltd. Skillet. 289,002, 3-31-87, Cl. D7-355.000.
Bardeau, William M., to Cleveland Range Ltd. Hinge. 289,888, 5-19-87, Cl. D8-323.000.
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Bardwell, Paul W.; Bardwell, F. Carolyn; and Corey, Irene, 289,188, Cl. D21-171.000.
Bardwell, Paul W.; Bardwell, F. Carolyn; and Corey, Irene. Doll. 287,742, 1-13-87, Cl. D21-156.000.
Bardwell, Paul W.; Bardwell, F. Carolyn; and Corey, Irene. Doll. 289,188, 4-7-87, Cl. D21-171.000.
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Widener, Teresa L.; Prilliman, Richard L.; Wilhelm, James B., Jr.; Barger, Donna A.; and Trombley, Valerie J., 288,732, Cl. D29-15.000.
Baril, Conrad J. Holder for paint can. 291,184, 8-4-87, Cl. D9-455.000.
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Barkley, Roger J. Shaving brush. 288,502, 3-3-87, Cl. D4-114.000.
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Hollingshead, John; and Barnes, Anna, 288,105, Cl. D21-167.000.
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Barnett, David J., to Mike & Kremmel, Ltd. Can opener. 292,866, 11-24-87, Cl. D8-41.000.
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Baron, Walter J., to Water Services of America, Inc. End clip for a heat exchanger tube cleaning shuttle brush retaining basket. 292,309, 10-13-87, Cl. D23-386.000.
Barone, Charles A. Cork puller. 293,200, 12-15-87, Cl. D8-42.000.
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Baroody, Terrance A.; and Bass, Jerry R., to Baroody Spence Furniture Industries, Inc. Arm chair or similar article. 291,750, 9-8-87, Cl. D6-369.000.
Barr, Lance N., to Nintendo of America Inc. Video game cabinet. 291,813, 9-8-87, Cl. D21-13.000.
Barrault, Jean-Louis, to Moulinex, Societe Anonyme. Food processor. 292,260, 10-13-87, Cl. D7-384.000.
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Lackner, John R.; and Bartasevich, William E., Jr., 291,129, Cl. D32-31.000.
Barthropp, Francis M. L. Toy gun. 288,104, 2-3-87, Cl. D21-147.000.
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Bartlett, William L.; Cruz, Edward; and Harding, David, to Rival Manufacturing Company. Food processor. 292,364, 10-20-87, Cl. D7-384.000.
Bartolini, Frank. Hang glider. 288,919, 3-24-87, Cl. D12-321.000.
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Basch, Theodor, to Kash 'N Gold Ltd. Housing for a wall mount telephone set. 291,568, 8-25-87, Cl. D14-61.000.
Basch, Theodor, to Kash 'N Gold Ltd. Telephone. 291,570, 8-25-87, Cl. D14-64.000.
Basch, Theodor, to Kash 'N' Gold, Ltd. Telephone. 292,286, 10-13-87, Cl. D14-64.000.
BASF Corporation: *See*—
Tarasevich, Dennis A.; Edstrom, Richard C.; Hirst, Richard N.; Pressler, David O.; and Myers, Herbert M., 288,531, Cl. D8-376.000.
Basil, Vicki L., and Palacios, Roma. Mirror. 290,662, 7-7-87, Cl. D6-310.000.
Basore, Wayne, to Worldsbest Industries, Inc. Combined carry-out hamper bag and support for same. 290,538, 6-23-87, Cl. D32-37.000.
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Vaccaro, Giuseppe, 291,382, Cl. D2-292.000.
Bateman, Robert F.; Conti, Rino; Nottingham, John R.; and Spirk, John R., to Dart Industries Inc. Stacking toy or the like. 291,583, 8-25-87, Cl. D21-59.000.
Bates, Bobby L., to Bates-Johnson & Co., Inc. Tool for cleaning and shaping lamp sockets. 289,727, 5-12-87, Cl. D8-14.000.
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Bates, Kenneth J., to Bates Saddlery Pty. Ltd. Stirrup strap. 289,698, 5-5-87, Cl. D30-30.000.
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Battaglia, Anthony. Combination hair brush and pick. 291,365, 6-2-87, Cl. D4-117.000.
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Baumann, Arthur; and Bachmann, Rudolf, to Mettler Instrumente AG. Display for an electronic weighing scale. 290,096, 6-2-87, Cl. D10-94.000.
Baumann, Arthur; Bachmann, Rudolf; and Liechti, Christian, to Mettler Instrumente AG. Display for an electronic weighing scale. 290,097, 6-2-87, Cl. D10-94.000.
Baumann, Arthur, to Mettler Instrumente AG. Display for an electronic weighing scale. 290,238, 6-9-87, Cl. D10-94.000.
Baumann, Arthur, to Mettler Instrumente AG. Display for an electronic weighing scale. 291,540, 8-25-87, Cl. D10-94.000.
Baumann, Michael; and Baumann, Peter. Hydrotherapy massage unit for bath tubs or the like. 288,607, 3-3-87, Cl. D24-38.000.
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Baumann, Michael; and Baumann, Peter, 288,607, Cl. D24-38.000.
Baumer, Walter. Combined clock and aquarium or the like. 291,785, 9-8-87, Cl. D10-2.000.
Baumgardner, Edward W. Protective transport container for sports equipment. 291,842, 9-15-87, Cl. D3-36.000.
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Bautista, Antonio S. Comb. 289,805, 5-12-87, Cl. D28-21.000.
Bautista, Antonio S. Hairbrush. 289,828, 5-19-87, Cl. D4-136.000.
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Glash, Dean M.; Kruger, Robert J.; Olson, Steven L.; and West, Richard L., 288,005, Cl. D24-61.000.
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Bayly, Charles L. Toy train whistle. 292,779, 11-17-87, C., D10-119.000.
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Campbell, Robert B.; and Landau, Junichi P., 291,383, Cl. D2-309.000.
Campbell, Robert B.; and Landau, Junichi P., 291,384, Cl. D2-309.000.
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Beal, Glenn I.; Raupach, Terrence; and Hauger, Harry L., to Gilmour Manufacturing Company. Sprayer head. 289,675, 5-5-87, Cl. D23-17.000.
Beal, James A. Coin roll opener. 292,139, 9-29-87, Cl. D99-34.000.
Beal, John R. Six pack beverage cooler. 292,057, 9-29-87, Cl. D7-77.000.
Bean, Lewis. Folding walker. 291,791, 9-8-87, Cl. D12-130.000.
Beane, Thomas D.; and LoTurco, Raymond A., to Patton Electric Company, Inc. Electric heater housing. 290,498, 6-23-87, Cl. D23-122.000.
Beardsley, Michael L., to Marsellus Casket Co. Burial casket. 288,256, 2-10-87, Cl. D99-7.000.
Beardsley, Michael L., to Marsellus Casket Co. Burial casket. 288,257, 2-10-87, Cl. D99-7.000.
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Beattie, D. Stuart, to Fox Pool Corporation. Plastic sheet material for a pool liner. 293,039, 12-1-87, Cl. D5-61.000.
Beaty, David L.; and Loughrige, William W. Illumination attachment clip for firearms. 293,206, 12-15-87, Cl. D8-395.000.
Beaty, Ulysses C. Protective shield for shoe heels. 291,741, 9-8-87, Cl. D2-277.000.
Beauchan, Keith M. Flip top can opener or similar article. 292,479, 10-27-87, Cl. D8-40.000.
Beaupre, Richard E. Dr play frame. 290,555, 6-30-87, Cl. D6-311.000.
Beavers, Allan E., to T.A. Pelsue Company. Combined ventilating and purging blower. 291,243, 8-4-87, Cl. D23-162.000.
Bech, Frank W. Bottle. 287,935, 1-27-87, Cl. D9-372.000.
Bechtel, Daniel L. Scope mount for a shotgun. 291,468, 8-18-87, Cl. D22-110.000.
Bechtel, Daniel L. Rifle scope mount. 291,469, 8-18-87, Cl. D22-110.000.
Bechtel, Daniel L. Pistol scope mount. 291,470, 8-18-87, Cl. D22-110.000.
Beck, Stephen C. Headset for use in applying electrical signals to the temples. 293,373, 12-22-87, Cl. D24-17.000.
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Becker, Robert B., to Helikon Furniture Co., Inc. Table. 290,796, 7-14-87, Cl. D6-480.000.
Becker, Robert B., to Helikon Furniture Co., Inc. Desk. 292,151, 10-6-87, Cl. D6-428.000.
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Bedell, Rickie T., Katauskas, Michael A.; and Osborne, Thomas P., to American Greetings Corporation. Toy oven. 288,702, 3-10-87, Cl. D21-122.000.
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Beeghly, Richard M.; Cundiff, William P.; Legas, William H.; Hurst, Lawrence B., Jr.; Crump, Robert L.; and Boore, Robert E., to Goodyear Tire & Rubber Company, The. Tire. 288,425, 2-24-87, Cl. D12-146.000.
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Minost, Henri, 293,149, Cl. D34-26.000.
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Belaiche, Serge; and Ebbo, Daniel, to Serdaneli. Door handle or the like. 290,577, 6-30-87, Cl. D8-305.000.
Belaiche, Serge; and Ebbo, Daniel, to Serdaneli. Door handle or the like. 290,578, 6-30-87, Cl. D8-308.000.
Belaiche, Serge; and Ebbo, Daniel, to Serdaneli. Faucet handle. 292,730, 11-10-87, Cl. D23-250.000.
Belden, Walter R. Belt buckle rack. 291,629, 9-1-87, Cl. D6-316.000.
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Belletire, Steven P., to Attwood Corporation. Fuel container or the like. 291,282, 8-11-87, Cl. D9-376.000.
Bellini, Mario, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic keyboard musical instrument. 289,411, 4-21-87, Cl. D17-1.000.
Bellini, Mario, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic keyboard musical instrument. 289,412, 4-21-87, Cl. D17-1.000.
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Bellis, Gloria. Female yarn doll. 290,279, 6-9-87, Cl. D21-170.000.
Belokin, Paul, Jr., to Beatrice Foods Company. Display holder for snack food products and the like. 290,564, 6-30-87, Cl. D6-474.000.
Beltran, Jose M. F. Fastening ring for fluid valve. 292,308, 10-13-87, Cl. D23-269.000.
Belue, Cathy S.; and Tucker, Sandra J. Clothed doll. 288,458, 2-24-87, Cl. D21-171.000.
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Bender, Amos N. Portable stand for a volleyball net or the like. 289,540, 4-28-87, Cl. D21-199.000.
Bengtsson, Bengt-Olle. Display support for vehicles. 290,432, 6-23-87, Cl. D6-462.000.
Bengtsson, Herta A., to American Standard Inc. Faucet or similar article. 291,590, 8-25-87, Cl. D23-23.000.
Bengtsson, Herta A., to American Standard Inc. Combined water control valve and spout. 293,465, 12-29-87, Cl. D23-257.000.
Bennett, Charles. Coin bank or the like. 291,939, 9-15-87, Cl. D99-40.000.
Bennett, Lewis W., to Itek Graphix Corp. Keyboard. 288,095, 2-3-87, Cl. D14-100.000.

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Benoit, Raymond A. Flashlight. 291,836, 9-8-87, Cl. D26-37.000.
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Beran, Mark A., to BC Creations, Inc. Foldable travel bag. 291,150, 8-4-87, Cl. D3-48.000.
Berchtold, Rainer C. F. Video information stand. 289,870, 5-19-87, Cl. D14-82.000.
Berenson, Steven M., to Aqua-Leisure Industries, Inc. Aviator-style swim mask. 290,764, 7-7-87, Cl. D29-9.000.
Berfield, Robert C.; Meland, Ronald F.; and Crevling, Robert L., Jr., to Shop-Vac Corporation. Motor housing for canister type electric vacuum cleaner. 287,658, 1-6-87, Cl. D32-25.000.
Berfield, Robert C.; Meland, Ronald F.; and Crevling, Robert L., Jr., to Shop-Vac Corporation. Motor housing for canister type electric vacuum cleaner. 287,895, 1-20-87, Cl. D32-25.000.
Berfield, Robert C.; and Kriner, John S., to Shop-Vac Corporation. Tool holder. 288,763, 3-17-87, Cl. D6-553.000.
Berfield, Robert C.; Seasholtz, Craig A.; and Fegan, Richard M., to Shop-Vac Corporation. Sweeper. 289,933, 5-19-87, Cl. D32-20.000.
Berfield, Robert C.; Crevling, R. Lent, Jr.; Meland, Ronald F.; and Fegan, Richard M., to Shop-Vac Corporation. Sweeper. 290,055, 5-26-87, Cl. D32-19.000.
Berg, Franco, to Rittal-Werk Rudolf Loh GmbH & Co. KG. Cabinet latch or similar article. 292,171, 10-6-87, Cl. D8-331.000.
Berg, Harvey F.: *See*—
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Berg, Lloyd T.; and Flowers, Stephen A. Beverage and accessories dispenser. 288,399, 2-24-87, Cl. D7-313.000.
Berg, Robert H., to Particle Data, Inc. Cabinet for particle and cell analysis apparatus or similar article. 289,550, 4-28-87, Cl. D24-21.000.
Berg, Roger M. Bicycle wheel cover. 293,233, 12-15-87, Cl. D12-204.000.
Bergdahl, Knut E. Channel body for an air supply register. 291,914, 9-15-87, Cl. D23-112.000.
Berger, Barry D., to Timex Corporation. Packaging container for a wristwatch. 291,867, 9-15-87, Cl. D9-430.000.
Berger, Karl-Gustav: *See*—
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Berger, Louellen A., to Sibling Cycle, Inc. Tricycle having a passenger carrier. 289,273, 4-14-87, Cl. D12-112.000.
Berger, Robert P. Dental gauge. 289,549, 4-28-87, Cl. D24-10.000.
Bergeron, Gregory B. Housing for ultrasonic light control or the like. 290,239, 6-9-87, Cl. D10-106.000.
Bergeron, Robert M. Outboard motor mounting bracket. 288,205, 2-10-87, Cl. D15-4.000.
Bergeron, Robert M. Slide bracket. 291,279, 8-11-87, Cl. D8-373.000.
Bergh, Leslie H. Fluid filtration unit for use in oil well hole drilling operations. 292,215, 10-6-87, Cl. D15-7.000.
Bergh, Trach; and Cooney, Joseph J. Game board. 290,379, 6-16-87, Cl. D21-33.000.
Berglof, Carl-Olof B.; and Sorum, Erik, to Saab-Scania Aktiebolag. Swing door for a glove compartment of an automobile. 290,350, 6-16-87, Cl. D12-155.000.
Berglund, Svante: *See*—
Jansson, Staffan; Sandberg, Jan; Arvidson, Hakan; and Berglund, Svante, 289,813, Cl. D32-30.000.
Bergmann, Konrad; and Fabian, Wolfgang, to American Standard Inc. Faucet or similar article. 291,234, 8-4-87, Cl. D23-23.000.
Bergmann, Konrad; and Fabian, Wolfgang, to American Standard Inc. Faucet or similar article. 291,235, 8-4-87, Cl. D23-23.000.
Bergstrom, Nils-Gustaf; and Lanfelt, Stig B., to Astra Lakemedel Aktiebolag. Disposable syringe for storing and administering pharmaceutical preparations. 288,006, 1-27-87, Cl. D24-63.000.
Berkley and Company Inc.: *See*—
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Berkus, Barry A. Modular building. 292,736, 11-10-87, Cl. D25-1.000.
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Berry, Richard D., Jr., to Design Institute America, Inc. Table. 289,953, 5-26-87, Cl. D6-482.000.
Berry, Richard D., Jr., to Design Institute America, Inc. Table. 290,203, 6-9-87, Cl. D6-479.000.
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Berryman, Albert; and Dorm, Dwight A., to Dormeo, Inc. Protective body suit. 293,495, 12-29-87, Cl. D29-10.000.
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Bertani, Alberto, to Elesa S.p.A. Combined liquid level guage and thermometer. 292,072, 9-29-87, Cl. D10-53.000.
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Bertrand, Vic, to Ritvik Group Inc., The. Toy construction block. 290,720, 7-7-87, Cl. D21-108.000.
Bertrand, Vic, to Ritvik Group Inc., The. Toy construction piece. 291,099, 7-28-87, Cl. D21-108.000.
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Best, Philip C.; Neu, Edwin F.; and Pardo, John, to Procter & Gamble Company, The. Bottle. 292,885, 11-24-87, Cl. D9-376.000.
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Bialo, Walter, to Ventura Travelware, Inc. Attache case or similar article. 291,625, 9-1-87, Cl. D3-76.000.
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Bianchin Scarpa, Afra; and Scarpa, Tobia, to Centro Studi e Servizi Moda di Paolo Bertagnin & C. S.A.S. Store front. 287,883, 1-20-87, Cl. D25-9.000.
Bianchin Scarpa, Afra; and Scarpa, Tobia, to Centro Studi e Servizi Moda di Paolo Bertagnin & C. S.A.S. Combined ceiling, wall, floor, partition and shelves unit for the interior of a store. 290,658, 6-30-87, Cl. D25-58.000.
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Bick, Michael; Anderson, Robert; and Katchen, Howard, to Shelly & Anderson Furniture Mfg. Co., Inc. Sofa. 289,712, 5-12-87, Cl. D6-381.000.
Bick, Michael; Anderson, Robert; and Katchen, Howard, to Shelly & Anderson Furniture Mfg. Co., Inc. Sofa. 289,713, 5-12-87, Cl. D6-381.000.
Bick, Michael; Anderson, Robert; and Katchen, Howard, to Shelly & Anderson Furniture Mfg. Co., Inc. Sofa. 290,069, 6-2-87, Cl. D6-381.000.
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ielby, Eugene F. Vehicle trim strip. 289,891, 5-19-87, Cl. D12-190.000.
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igelow, Charles A.; and Holmes, Kris A. Typeface. 289,422, 4-21-87, Cl. D18-24.000.
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igelow-Sanford, Inc.: *See*—
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itaoui, Andre. Perfume bottle. 289,142, 4-7-87, Cl. D9-307.000.
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illiet, Frank, to Mirodan, Etn. L. D'Haene & Zonen. Wall mirror. 292,044, 9-29-87, Cl. D6-300.000.
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iocomfort Produkte zur Gesundheitpflege GmbH: *See*—
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iolabimex AB: *See*—
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House, Lawrence E., II; and Somers, Robert I., 293,201, Cl. D8-68.000.
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Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., to Johnson & Johnson Dental Products Company. Combined holder and dispenser for dental composite material cartridge. 287,875, 1-20-87, Cl. D24-10.000.
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Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., to Johnson & Johnson Dental Products Company. Container for a shade guide and dental syringes. 288,233, 2-10-87, Cl. D24-31.000.
Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., to Johnson & Johnson Dental Products Company. Combined container and display case for dental articles. 288,234, 2-10-87, Cl. D24-31.000.

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Block, Thomas S., to Cooper Industries, Inc. Housing for a floor cleaning machine. 290,054, 5-26-87, Cl. D32-15.000.

Blocker, Rick G. Vacuum cleaner attachment for cleaning refrigerator coils. 293,141, 12-8-87, Cl. D32-25.000.

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Bode, Robert H.; and Hidden, William P., to Cambridge Wire Cloth Co., The. Close rib belt module for an endless conveyor belt. 288,255, 2-10-87, Cl. D34-29.000.

Bode, Robert H.; and Hidden, William P., to Cambridge Wire Cloth Co., The. Transfer comb module for an endless conveyor belt. 288,408, 2-24-87, Cl. D8-499.000.

Bodfish, Nigel F., to Gill-Mentor Limited. Kitchen knife handle. 289,357, 4-21-87, Cl. D7-152.000.

Boehringer, John R.; and Aff, John, to Boehringer Laboratories. Ink stamp. 290,469, 6-23-87, Cl. D18-15.000.

Boehringer Laboratories: *See*—
Boehringer, John R.; and Aff, John, 290,469, Cl. D18-15.000.

Boelens, David A. Rotary drain cleaner. 287,654, 1-6-87, Cl. D32-14.000.

Boelter, John D., Jr. Game board. 290,472, 6-23-87, Cl. D21-35.000.

Boesen, Connie J. Stadium coat. 291,500, 8-25-87, Cl. D2-184.000.

Bogaerts, Leo C.: *See*—
Stevens, Brooks; Bogaerts, Leo C.; and Mountz, Craig E., 289,656, Cl. D15-130.000.

Boggs, Cathy Y.; and Boggs, Larry W. Headset telephone. 292,400, 10-20-87, Cl. D14-53.000.

Boggs, Larry W.: *See*—
Boggs, Cathy Y.; and Boggs, Larry W., 292,400, Cl. D14-53.000.

Bohjort, Bengt, to Miniman Security AB. Protective helmet with retractable goggles. 291,127, 7-28-87, Cl. D29-15.000.

Boice, Alain D. Circular towel. 293,060, 12-8-87, Cl. D6-608.000.

Bokmiller, David J.; and Frassanito, John R., to Sani-Fresh International, Inc. Cleaning wand. 288,974, 3-24-87, Cl. D32-45.000.

Bokmiller, David J., to Sani-Fresh International, Inc. Cleaning wand caddy. 291,039, 7-28-87, Cl. D6-551.000.

Bokmiller, David J.: *See*—
Heck, Samuel C.; and Bokmiller, David J., 291,259, Cl. D32-45.000.

Boland, Edward J., II. Wine rack. 289,716, 5-12-87, Cl. D6-465.000.

Bolduc, Pierre-Yves. Hurricane lamp. 287,885, 1-20-87, Cl. D26-11.000.

Bolies, Lawrence E. Font of type. 292,103, 9-29-87, Cl. D18-27.000.

Bolinger, Ralph L. Combine reel finger. 289,172, 4-7-87, Cl. D15-29.000.

Bollinger, Howard N.; Allen, Robert K.; Langdon, Nick H.; Toth, Stephen M.; and Williams, W. Grey, to Kenner Parker Toys Inc. Toy helicopter. 287,738, 1-13-87, Cl. D21-90.000.

Bollinger, Howard N.; Cordrey, Robert E.; Hayes, Ronald G.; Musick, Gordon J.; and Williams, W. Grey, to Kenner Parker Toys Inc. Toy vehicle. 289,909, 5-19-87, Cl. D21-140.000.

Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; McSweeney, Andrea; Cozad, Cheryl L.; and Oliver, Yacoba C., to Kenner Parker Toys Inc. Doll. 290,724, 7-7-87, Cl. D21-166.000.

Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, to Kenner Parker Toys Inc. Doll. 290,725, 7-7-87, Cl. D21-166.000.

Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, to Kenner Parker Toys Inc. Doll. 290,726, 7-7-87, Cl. D21-166.000.

Bollinger, Howard N.; Boudreaux, Mark D.; Cordrey, Robert E.; Ligon, Charles E.; Myers, David A.; Stroud, Walter E.; Wood, Earl M., Jr.; and Van de Merwe, Jan, III, to Kenner Parker Toys Inc. Toy truck. 291,816, 9-8-87, Cl. D21-134.000.

Bollinger, Howard N.; Cordrey, Robert E.; Ligon, Charles E.; and Myers, David A., to Kenner Parker Toys Inc. Toy vehicle. 292,108, 9-29-87, Cl. D21-137.000.

Bollinger, Howard N.: *See*—
Allen, Robert K.; Bollinger, Howard N.; Myers, David A.; Simpson, Eric J.; and Williams, W. Grey, 292,010, Cl. D21-78.000.
Allen, Robert K.; Bollinger, Howard N.; Myers, David A.; Simpson, Eric J.; and Williams, W. Grey, 292,521, Cl. D21-77.000.
Beiser, Wayne; Bollinger, Howard N.; Cordrey, Robert E.; Ligon, Charles E.; Myers, David A.; Stroud, Walter E.; Williams, W. Grey; and Wood, Earl M., Jr., 291,336, Cl. D21-136.000.

Bollinger Industries, Inc.: *See*—
Suponitsky, Lenny, 290,485, Cl. D21-198.000.

Bollinger, Steven N.: *See*—
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Bolton, James C.: *See*—
Nielsen, Christian M.; and Bolton, James C., 289,525, Cl. D15-127.000.

Bonadonna, Terry: *See*—
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Bonbright, James D. Plug puller for repairing automotive generators. 288,402, 2-24-87, Cl. D8-14.000.

Bonczek, John F.; and Bonczek, Linda D. Combined shelves and dispenser for disposable diapers. 287,915, 1-27-87, Cl. D6-515.000.

Bonczek, Linda D.: *See*—
Bonczek, John F.; and Bonczek, Linda D., 287,915, Cl. D6-515.000.

Bond, Guy R. Heart-shaped jewelry finding. 289,020, 3-31-87, Cl. D11-56.000.

Bond, Raymond G., to Fortel, Inc. Cordless handset and stand telephone unit. 287,971, 1-27-87, Cl. D14-53.000.

Bond, Raymond G., to Fortel, Inc. Cordless handset and stand telephone unit. 288,561, 3-3-87, Cl. D14-53.000.

Bond, Raymond G., to Fortel, Inc. Cordless handset and stand telephone unit. 289,042, 3-31-87, Cl. D14-53.000.

Bonfanti, Lorenzo: *See*—
Arduini, Giovanni; Bonfanti, Lorenzo; and Salvemini, Gianfranco, 290,876, Cl. D24-21.000.

Bonnema, Robert W.; Knutson, Robert C.; and Pasquarette, Ralph E., to Honeywell Inc. Controller for an energy management system. 293,421, 12-29-87, Cl. D10-50.000.

Bonnet, Eric, to Jean Lassale S.A. Wrist watch. 288,067, 2-3-87, Cl. D10-39.000.

Bonny Products, Inc.: *See*—
Hoehne, George, 291,761, Cl. D7-101.000.

Boomer, John: *See*—
Burgher, Peter; and Boomer, John, 290,456, Cl. D13-4.000.

Boom, James E. Draftsman's organizer. 288,939, 3-24-87, Cl. D19-78.000.

Boone, Benjamin H. Crack filler. 290,219, 6-9-87, Cl. D8-45.000.

Boore, Robert E.: *See*—
Beeghly, Richard M.; Cundiff, William P.; Legas, William H.; Hurst, Lawrence B., Jr.; Crump, Robert L.; and Boore, Robert E., 288,425, Cl. D12-146.000.

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Booty, Donald J., Sr.; and Booty, Donald J., Jr., 292,204, Cl. D13-30.000.

Booty, Donald J., Sr.; and Booty, Donald J., Jr. Housing for modular electrical switch receptacle device or the like. 292,204, 10-6-87, Cl. D13-30.000.

Bordonaro, Frank; and McTiernan, James, to Hoffmann-La Roche Inc. Safety bottle cap remover. 287,812, 1-20-87, Cl. D8-40.000.

Bordonaro, Frank; and McTiernan, James, to Hoffmann-La Roche Inc. Safety bottle over-cap remover. 288,894, 3-24-87, Cl. D8-18.000.

Borer, Claude; and Greter, Andreas, to Hoffmann-La Roche Inc. Cuvette assembly. 288,845, 3-17-87, Cl. D24-29.000.

Borin, Harlan F. Water carafe. 287,806, 1-20-87, Cl. D7-317.000.

Bos, Andre G., to Technal International. Extruded section for window frames or the like. 288,614, 3-3-87, Cl. D25-74.000.

Bosland, James M., to Ketcham & McDougall, Inc. Paper, pencil and clip caddy. 289,059, 3-31-87, Cl. D19-78.000.

Boss, Karen; and Skram, Ann M. Oil candle. 290,514, 6-23-87, Cl. D26-11.000.

Bossi, Giuseppe: *See*—
Rossio, Bruno; Bossi, Giuseppe; and Roggero, Francesco, 288,398, Cl. D7-309.000.

Bostler, Ralph H.; and Nagele, Albert L., to Motorola, Inc. Vehicular communications converter or similar article. 288,683, 3-10-87, Cl. D14-76.000.

Boswell, Philip, to Dubarry Shoemakers Limited. Shoe sole. 290,184, 6-9-87, Cl. D2-320.000.

Bothun, Eugene L.; and McGuire, Michael C., to Sit-N-Sip, Inc. Combined seat and container. 293,393, 12-29-87, Cl. D6-335.000.

Botich, Michael J., to Unitek Corporation. Combined injector gun, cap, and power unit for dental treatment. 291,000, 7-21-87, Cl. D24-10.000.

Boucher, Guy, to Telemecanique Electrique. Programable controller. 292,394, 10-20-87, Cl. D13-12.000.

Boucher, Richard, to Sanitoy, Inc. Bath ring for infants. 288,118, 2-3-87, Cl. D23-69.000.

Boudreaux, Mark D.: *See*—
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Bouet, Thiebault: *See*—
Exley, Jvll; and Bouet, Thiebault, 289,460, Cl. D3-12.000.

Bouilhet, Henry, to La Societe Orfevrerie Christofle. Handle for a spoon or similar article of flatware. 292,360, 10-20-87, Cl. D7-152.000.

Bouilhet, Henry, to La Societe Orfevrerie Christofle. Handle for a fork or similar article of flatware. 292,361, 10-20-87, Cl. D7-152.000.

Bounds, William E. Combination condiment mill and shaker. 289,486, 4-28-87, Cl. D7-53.000.

Bounds, William E. Condiment mill. 292,257, 10-13-87, Cl. D7-53.000.

Bourke, Alan M.: *See*—
Sexton, John D.; and Bourke, Alan M., 292,841, Cl. D2-270.000.

Bourke, Norman: *See*—
Bird, Donald; and Bourke, Norman, 290,576, Cl. D8-1.000.

Bourret, Linda. Exercise mat. 291,586, 8-25-87, Cl. D21-191.000.

Bower, Allen M.; Butterfield, Eric J.; and Roberts, Robert D., to Emco Wheaton, Inc. Fuel dispensing nozzle. 293,462, 12-29-87, Cl. D23-226.000.

Bowers, Joe W., Jr., to Coca-Cola Company, The. Can. 289,736, 5-12-87, Cl. D9-368.000.

Bowers, Ty S., to Sexton, Yancey D.; and Daystar, Inc. Power supply for a microwave receiver. 289,395, 4-21-87, Cl. D14-90.000.

Bowie, Lawrence. Clock. 289,980, 5-26-87, Cl. D10-6.000.

Bowman, Roy S. Spare tire holder. 289,030, 3-31-87, Cl. D12-202.000.

Boyd, Evangeline J.: *See*—
Roach, Donald R.; and Boyd, Evangeline J., 291,989, Cl. D14-53.000.

Boyd Lighting Company: *See*—
Pfister, Murray C., 288,009, Cl. D26-145.000.
Pfister, Murray C., 288,136, Cl. D26-87.000.
Pfister, Murray C., 288,249, Cl. D26-131.000.

Boyer, Boyke, to Bayerische Motoren Werke AG. Wheel cover. 287,960, 1-27-87, Cl. D12-211.000.

Boyett, Christopher J., to TI Sturmey-Archer Limited. Gear chain guard for a cycle. 289,506, 4-28-87, Cl. D12-127.000.

Boyett, Christopher J., to TI Sturmey-Archer Limited. Actuator for push-pull cables or electric switches for bicycles. 289,751, 5-12-87, Cl. D12-179.000.

Boyle-Midway Household Products, Inc.: *See*—
Ronayne, Walter M., 293,263, Cl. D23-208.000.

Boyle, William F.; and Chandler, Maurice P., to General Motors Corporation. Wheel cover. 291,879, 9-15-87, Cl. D12-209.000.

Boyle, William F., and Chandler, Maurice P., to General Motors Corporation. Wheel cover. 292,389, 10-20-87, Cl. D12-211.000.

Boyle, William J.; and Irish, Thomas F., to Atlantic Optical Systems, Inc. Handpiece for occular irrigation and aspiration. 289,687, 5-5-87, Cl. D24-51.000.

Bozarth, J. Dave. Water spout extension for a water cooler. 288,520, 3-3-87, Cl. D7-398.000.

Bozarth, J. Dave. Closure-penetrating support for a bottle. 292,365, 10-20-87, Cl. D7-387.000.

Bozich, John. Pouring attachment for a can or the like. 288,535, 3-3-87, Cl. D9-447.000.

BP Electronics, Inc.: *See*—
Towell, Bruce R.; and Rey, Arthur, 288,692, Cl. D14-84.000.

Brachear, Howard. Fishing jug. 291,905, 9-15-87, Cl. D22-146.000.

Bracy, Kelvin. Foot warmer. 289,580, 5-5-87, Cl. D2-264.000.

Bradford, Michael H., to Discovery Marketing Systems, Inc. Bioentrainment module. 289,927, 5-19-87, Cl. D24-38.000.

Bradley, Janet: *See*—
Jones, Tommie J.; and Bradley, Janet, 289,463, Cl. D14-117.000.

Bradshaw, Charlotte S. Single bottle insulated bag. 289,128, 4-7-87, Cl. D7-77.000.

Brady, William P.: *See*—
Themistos, John H.; and Brady, William P., 291,409, Cl. D8-382.000.

Braeuner, Horst, to Original Vogelbauer Corp., The. Bird cage. 287,650, 1-6-87, Cl. D30-4.000.

Brailsford, Michael I. D. Paint stripping tool. 287,692, 1-13-87, Cl. D8-16.000.

Bramhall, George H.: *See*—
Hotchkiss, Kenneth W.; Bramhall, George H.; and Popken, John A., 290,806, Cl. D8-14.000.

Bramwell, David W., to EGA Limited. Wire channel. 288,802, 3-17-87, Cl. D13-13.000.

Bramwell, David W., to EGA Limited. Wire channel. 289,633, 5-5-87, Cl. D13-13.000.

Bramwell, David W., to EGA Limited. Wire channel. 289,634, 5-5-87, Cl. D13-13.000.

Bramwell, David W., to EGA Limited. Wire channel. 289,635, 5-5-87, Cl. D13-13.000.

Bramwell, David W., to EGA Limited. Adaptor for a wire channel. 292,396, 10-20-87, Cl. D13-24.000.

Brancher, Rodney E., to InterMetro Industries Corporation. Wire shelf. 289,479, 4-28-87, Cl. D6-511.000.

Brandes, J. Henry: *See*—
Morgan, Annis R., Jr.; King, Eddie W.; Brandes, J. Henry; and Lettera, James N., 292,993, Cl. D20-5.000.

Brandes, John H.; King, Eddie W.; and Summerville, Don S., to Coca-Cola Company, The. Vending machine. 290,619, 6-30-87, Cl. D20-5.000.

Brandsma, Sies K.; and Schouten, Henderikus P., to U.S. Philips Corporation. Clock radio receiver. 290,358, 6-16-87, Cl. D14-73.000.

Brandsma, Sies K., to U.S. Philips Corporation. Portable radio receiver. 292,583, 11-3-87, Cl. D14-70.000.

Brandt, Charles M.; and Everette, Claude J., to Sewell Plastics Inc. Bottle. 292,378, 10-20-87, Cl. D9-396.000.

Brann, James E., to Autech Partners Ltd. Cabinet for process data acquisition and control equipment. 290,960, 7-21-87, Cl. D14-102.000.

Brashear, Robert L. Horse stocks unit. 289,932, 5-19-87, Cl. D30-1.000.

Brass, Hendrik K., to Ekebro Aktiebolag. Concrete ejector. 288,817, 3-17-87, Cl. D15-13.000.

Bratasevec, Vid, to Iskra-Delta, Proizvodnja Racunalniskih Sistemov in Inzeniring, P.O. Typing unit. 291,810, 9-8-87, Cl. D18-12.000.

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Braun, Charles M. Dispenser. 289,841, 5-19-87, Cl. D6-515.000.

Braun, Charles M. Dispenser. 290,074, 6-2-87, Cl. D6-515.000.

Braun, Michael D.: *See*—
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Braxton, Charles R.; Puszman, Alan Z.; and Johnk, William A., to Valleylab, Inc. Electrosurgical handle. 287,879, 1-20-87, Cl. D24-30.000.

Brechtbill, George V.; and Nicolos, Charlie O., to Nicolos, Charlie O. Brace for stabilizer of V-tail aircraft. 287,962, 1-27-87, Cl. D12-345.000.

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Breeze, Phyllis M.; Wescoat, Jay T.; Wilkinson, Jean; and Grugett, Anita G., to White River Industries, Inc. Receptacle or similar article. 288,042, 2-3-87, Cl. D6-563.000.

Breger, Carl-Arne, to Monark AB. Bicycle ergometer body. 292,225, 10-6-87, Cl. D21-194.000.

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Breil, Randy J. Telephone line polarity tester. 291,071, 7-28-87, Cl. D10-78.000.

Bremer, David R. Coffee filter separating utensil. 287,922, 1-27-87, Cl. D7-99.000.

Brendgord, Thomas; Sanders, Ward L.; and Coon, Dennis C., to American Sterilizer Company. Orthopedic table. 287,625, 1-6-87, Cl. D24-3.000.

Brentham, Jerry D. Physical exercise chair. 289,190, 4-7-87, Cl. D21-195.000.

Brentham, Jerry D. Rowing machine. 289,539, 4-28-87, Cl. D21-195.000.

Breuer, Thomas A., to Crosslink Plastics, Inc. Pick-up unit for animal droppings. 290,416, 6-16-87, Cl. D30-99.000.

Brevetti Gaggia S.p.A.: *See*—
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Brewster, Alan R., to Andrews Maclaren Limited. Stroller. 288,306, 2-17-87, Cl. D12-129.000.

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Brice, Michael F., to Brice Ilotan Research Corporation. Combined packaging container and brewing device for coffee or the like. 291,866, 9-15-87, Cl. D9-337.000.

Brickus, Romas A.; Tiffany, Thomas O.; and Keramaty, Hamid, to Fisher Scientific Company. Centrifugal analyzer rotor. 288,124, 2-3-87, Cl. D24-31.000.

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Bright, Stephen A. Handle or similar article. 288,278, 2-17-87, Cl. D8-107.000.
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Petersson, Nils A. I., 287,609, Cl. D21-143.000.
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Brooks, Kevin C. Fairground amusement tunnel. 291,717, 9-1-87, Cl. D21-242.000.
Brooks, Richard R.; Danielson, David C.; Gotway, Jerome M.; McGervey, John N.; and Tilley, Alvin R., to AT&T Information Systems Inc. Telephone answering device. 289,155, 4-7-87, Cl. D14-4.000.
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Brower, Boyd G.; Audesse, Emery G.; and Picini, Dan E., to GTE Products Corporation. Multilamp photoflash unit. 291,322, 8-11-87, Cl. D16-42.000.
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Brown, Wilbert C.; and Saba, Philip B., to TIE/Communications, Inc. Telephone station set. 287,852, 1-20-87, Cl. D14-58.000.
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Brown, Wilbert C.; Tosto, Roger J.; and Babbitt, Eric K., to TIE/communications, Inc. Telephone set. 291,436, 8-18-87, Cl. D14-53.000.
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n, Philip L. Handle for a container or similar article. 288,666, -10-87, Cl. D9-434.000.
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Bulgari, Gianni, to Partecipazioni Bulgari S.p.A. Combined watch and bracelet. 291,784, 9-8-87, Cl. D10-32.000.
Bulgari, Gianni, to Partecipazioni Bulgari S.p.A. Combined watch and bracelet. 291,869, 9-15-87, Cl. D10-32.000.
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Bulgari, Marina, to Marina B Creation S.A. Ring. 292,682, 11-10-87, Cl. D11-27.000.
Bulgari, Marina, to Marina B Creation S.A. Ring. 292,683, 11-10-87, Cl. D11-34.000.
Bulgari, Marina, to Marina B. Creation S.A. Ring. 292,684, 11-10-87, Cl. D11-34.000.
Bulgari, Marina, to Marina B Creation S.A. Earring. 292,685, 11-10-87, Cl. D11-40.000.
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Bullen, Stephen R.; Dunn, Paul M.; and Phillips, Martin A., to Dynacast International Limited. Screw-threaded insert. 287,819, 1-20-87, Cl. D8-385.000.
Bullen, Stephen R.; Dunn, Paul M.; and Phillips, Martin A., to Dynacast International Limited. Screw-threaded insert. 287,820, 1-20-87, Cl. D8-385.000.
Bullock, Brian P.; and Morrison, Howard J., to Marvin Glass & Associates. Telephone set. 293,102, 12-8-87, Cl. D14-53.000.
Bullock, Brian P.; and Morrison, Howard J., to Marvin Glass & Associates. Telephone set. 293,105, 12-8-87, Cl. D14-53.000.
Bullock, James K.; Bloom, William G.; Siegel, Bernard; and Lobodzinski, Richard, to American Hospital Supply Corporation. Handle for a diagnostic urinemeter unit. 292,022, 9-22-87, Cl. D24-17.000.
Bullock, James K.; Bloom, William G.; Siegel, Bernard; and Lobodzinski, Richard, to American Hospital Supply Corporation. Handle with sidearm for a diagnostic urinemeter unit. 292,527, 10-27-87, Cl. D24-17.000.
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Burdette, William L. Karate training device. 289,775, 5-12-87, Cl. D19-59.000.
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Burenga, Thomas I., to Worksaver, Inc. Pair of front loader bucket tines. 292,136, 9-29-87, Cl. D34-35.000.
Burgdorf, Fred. Paper clip. 293,337, 12-22-87, Cl. D19-65.000.
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Buss, Karen J. Toy animal. 292,303, 10-13-87, Cl. D21-165.000.
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Busse, Rido, to Soehnle-Waagen GmbH & Co. Weighing scale. 289,745, 5-12-87, Cl. D10-92.000.
Bussell, Vanda J. Lotion dispensing bottle. 291,656, 9-1-87, Cl. D9-300.000.
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Byington, Keith B. Game board. 291,456, 8-18-87, Cl. D21-25.000.
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Byrd, Phyllis F. Support leg for portable toilet seats and the like. 290,287, 6-9-87, Cl. D23-71.000.
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Caddick, Mary J. Pollution control vessel. 290,351, 6-16-87, Cl. D12-300.000.
Cadman, Christian B. Stand for an ornament or plate. 289,233, 4-14-87, Cl. D6-314.000.
Cadman, Christian B. Cup and saucer stand. 291,848, 9-15-87, Cl. D6-466.000.
Cadwallader, Robert H., to University Patents, Inc. Workbench or similar article. 288,866, 3-24-87, Cl. D6-338.000.
Cadwallader, Robert H., to University Patents, Inc. Workbench or similar article. 288,867, 3-24-87, Cl. D6-338.000.
Cafaro, Abele, Jr. Apertured spinner for a game board. 291,814, 9-8-87, Cl. D21-22.000.
Cafaro, John A.; Gides, Darrell J.; and Schell, Richard A., to General Motors Corporation. Wheel cover. 292,568, 11-3-87, Cl. D12-209.000.
Cafaro, John A.; Pitera, Michael J.; Schell, Richard A.; and Schnelle, John R., to General Motors Corporation. Vehicle wheel. 292,569, 11-3-87, Cl. D12-209.000.
Cafaro, John A.; Pitera, Michael J.; and Schell, Richard A., to General Motors Corporation. Vehicle wheel. 292,574, 11-3-87, Cl. D12-211.000.
Cafaro, John A.; Schell, Richard A.; and Spaulding, Robert B., to General Motors Corporation. Wheel cover. 292,907, 11-24-87, Cl. D12-211.000.
Cahill, Bryan J.; and Jones, Lonny R. Vest with thermally insulated coolant inserts. 292,140, 10-6-87, Cl. D2-184.000.
Cahusak, Piet C., to Intradal Nederland BV. Bottle. 293,209, 12-15-87, Cl. D9-375.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 287,543, 1-6-87, Cl. D3-12.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 287,665, 1-13-87, Cl. D3-12.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 288,144, 2-10-87, Cl. D3-12.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 289,701, 5-12-87, Cl. D3-16.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 290,537, 6-16-87, Cl. D3-12.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 290,546, 6-30-87, Cl. D3-12.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 290,547, 6-30-87, Cl. D3-12.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 291,200, 8-11-87, Cl. D3-12.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 291,201, 8-11-87, Cl. D3-12.000.
Cain, Ann S., to 'totes', incorporated. Umbrella handle. 291,502, 8-25-87, Cl. D3-12.000.
Cain, Michael W., to Michelin Recherche et Technique S.A. Tire. 287,579, 1-6-87, Cl. D12-147.000.
Cain, Michael W., to Michelin Recherche et Technique S.A. Tire. 287,580, 1-6-87, Cl. D12-147.000.
Cain, Michael W., to Michelin Recherche et Technique S.A. Tire. 287,707, 1-13-87, Cl. D12-147.000.
Caine, Harold A. Lens for a vehicle light. 290,296, 6-9-87, Cl. D26-125.000.
Caine, Harold A. Lens for a vehicle light. 290,411, 6-16-87, Cl. D26-120.000.
Cal-Marble Furniture Manufacturing Corporation: *See*—
Mann, Phylliss B., 293,048, Cl. D6-505.000.
Cal-Surgical, Inc.: *See*—
Sanderson, Ronald A.; Wilson, John L.; and Maples, Nolan M., 293,370, Cl. D24-3.000.
Wilson, John L.; and Maples, Nolan M., 287,626, Cl. D24-3.000.
Calamand, Michel, to Zyloware Corporation. Eyeglass frame. 288,572, 3-3-87, Cl. D16-119.000.
Caldeira, Adelino, to Kangaroos U.S.A., Inc. Pocketed shoe. 291,021, 7-28-87, Cl. D2-309.000.
Caldwell, John W. Lamp. 292,236, 10-6-87, Cl. D26-65.000.
California R & D Center: *See*—
Jones, Lawrence T.; Lee, R. Stephen; Ishikawa, Paul J.; and Howden, Ashley G., 290,479, Cl. D21-134.000.
Jones, Lawrence T.; Lee, R. Stephen; Ishikawa, Paul J.; and Howden, Ashley G., 292,602, Cl. D21-118.000.
Caligen Foam Limited: *See*—
Bird, Donald; and Bourke, Norman, 290,576, Cl. D8-1.000.
Calkin, Linda L. Doll. 293,351, 12-22-87, Cl. D21-166.000.
Calkin, Linda L. Doll. 293,352, 12-22-87, Cl. D21-166.000.
Callahan, Anne E. Child restraint harness. 290,765, 7-7-87, Cl. D29-11.000.
Callender, Robert J. Tool for forming taco shell. 289,958, 5-26-87, Cl. D7-43.000.
Callju, Robert F., to Inventek, Inc. Nursing bottle or similar article. 287,636, 1-6-87, Cl. D24-47.000.

S.A.: *See*—
Brun, Serge, 290,899, Cl. D32-70.000.
Brun, Serge, 291,130, Cl. D32-70.000.
Brun, Serge, 293,146, Cl. D32-70.000.
Brun, Serge, 293,147, Cl. D32-70.000.
Hennuy, Jean, 291,616, Cl. D32-70.000.
do Pumps, S.A. de C.V.: *See*—
Palacio, Jorge E. M., 287,782, Cl. D2-309.000.
Palacio, Jorge E. M., 287,783, Cl. D2-309.000.
Palacio, Jorge E. M., 288,261, Cl. D2-309.000.
ardello, Sam J., to Perfex Corporation. Brush block and handle. 289,990, 3-31-87, Cl. D4-138.000.
ridge Wire Cloth Co., The: *See*—
Bode, Robert H.; and Hidden, William P., 288,255, Cl. D34-29.000.
Bode, Robert H.; and Hidden, William P., 288,408, Cl. D8-499.000.
den Graphics Limited: *See*—
eyland, Timothy J., 287,735, Cl. D19-3.000.
ens, Murray I. C., to U.S. Philips Corporation. Dental water jet tip. 291,354, 8-11-87, Cl. D24-16.000.
eron, Kenneth A. Horse shoe. 292,333, 10-13-87, Cl. D30-35.000.
eron, Lonny R. Novelty cap or similar article. 291,840, 9-15-87, Cl. D2-248.000.
pagne Moet & Chandon: *See*—
Pozzo di Borgo, Philippe, 292,377, Cl. D9-370.000.
pbell, Bruce R., and Ross, Stephen O., to IVAC Corporation. IV infusion controller. 289,327, 4-14-87, Cl. D24-8.000.
pbell, Bruce R., to IVAC Corporation. Enteric pump. 291,119, 8-18-87, Cl. D24-8.000.
pbell, Charles M. Combined bag distending and holding form. 289,016, 3-31-87, Cl. D9-434.000.
pbell, Duncan F., to Reed Inc. Merchandizing rack module. 288,266, 2-17-87, Cl. D6-462.000.
pbell, Duncan F. Modular merchandizing rack unit. 288,640, 3-10-87, Cl. D6-465.000.
pbell, Frank P. Closet rod support. 288,645, 3-10-87, Cl. D6-5.000.
pbell, J. Les. Combined seat and water closet. 288,709, 3-10-87, Cl. D23-49.000.
pbell, J. Les. Combined lavatory seat and water closet. 288,710, 3-10-87, Cl. D23-49.000.
pbell, Jeanne P.: *See*—
Falkenberg, Douglass R.; and Campbell, Jeanne P., 288,765, Cl. D6-58.000.
pbell, Robert B.; and Landau, Junichi P., to BBC International Ltd. Sport shoe. 291,153, 8-18-87, Cl. D2-309.000.
pbell, Robert B.; and Landau, Junichi P., to BBC International Ltd. Sport shoe. 291,384, 8-18-87, Cl. D2-309.000.
pbell, Robert R., to BBC International Ltd. Sport shoe. 293,158, 12-15-87, Cl. D2-309.000.
pbell, Russel R.: *See*—
Speckeen, Loren G.; Fenn, James R.; and Campbell, Russel R., 291,573, Cl. D14-90.000.
pbell Soup Company: *See*—
Fox, Charles E.; and Terwilliger, Frank H., 288,050, Cl. D7-20.000.
Monaghan, Carey M., 288,648, Cl. D7-17.000.
pbell, Walter A. Leg warmer. 290,302, 6-16-87, Cl. D2-267.000.
pbell, Willis R. Solar collector. 288,593, 3-3-87, Cl. D23-72.000.
per's Kitchen, Inc.: *See*—
Moore, William S., 289,946, Cl. D3-30.100.
dian Fram Limited: *See*—
Yew, Kwang; and Carrothers, Hugh S., 289,401, Cl. D15-5.000.
Yew, Kwang; and Carrothers, Hugh S., 291,807, Cl. D15-5.000.
dy, Albert E. Buoy marker launcher. 290,731, 7-7-87, Cl. D22-5.000.
lino Watch Co. AG: *See*—
Flury, Armand, 288,668, Cl. D10-31.000.
ne Products Limited: *See*—
Thompson, Marie-Paule, 290,291, Cl. D23-150.000.
ning, Glenn R. Beverage can holder. 291,044, 7-28-87, Cl. D7-1.000.
non, Albert W., to Focalpoint Armoury Limited. Sight. 287,977, 12-27-87, Cl. D16-132.000.
non, Fleming V., Jr., to Dover Corporation. Hydraulic wrecker crane boom housing. 290,590, 6-30-87, Cl. D12-14.000.
non, Fleming V., Jr., to Dover Corporation. Hydraulic wrecker crane boom housing. 290,692, 7-7-87, Cl. D12-14.000.
non, Lovick E., III: *See*—
Covell, Edward F.; and Cannon, Lovick E., III, 288,716, Cl. D24-17.000.
non Mills Company: *See*—
Kester, Melvin E., 288,641, Cl. D6-465.000.
on Kabushiki Kaisha: *See*—
Ago, Nobuhiro; Iimura, Masayuki; and Yamada, Tateo, 287,733, Cl. D16-5.000.
Ago, Nobuhiro; and Tsuboi, Takayuki, 291,090, Cl. D16-6.000.
Aihara, Akira, 291,694, Cl. D14-100.000.
Colani, Luigi, 289,408, Cl. D16-1.000.
Colani, Luigi, 289,409, Cl. D16-2.000.
Colani, Luigi, 289,657, Cl. D16-6.000.
Colani, Luigi, 289,658, Cl. D16-6.000.
Colani, Luigi, 289,659, Cl. D16-9.000.
Colani, Luigi, 292,805, Cl. D16-42.000.
Endo, Aiko; and Fushimoto, Hideo, 289,413, Cl. D18-7.000.
Endo, Aiko; and Fushimoto, Hideo, 289,417, Cl. D18-7.000.
Hirooka, Junji; and Kanazawa, Manabu, 290,018, Cl. D18-7.000.
Hirooka, Junji; and Kanazawa, Manabu, 290,019, Cl. D18-7.000.
Hirooka, Junji, 291,027, Cl. D3-76.000.
Hirooka, Junji; and Murakami, Osamu, 291,698, Cl. D14-114.000.
Ito, Hitomi; and Tsuboi, Takayuki, 291,579, Cl. D16-6.000.
Kando, Masahiro, 289,116, Cl. D6-474.000.
Kando, Masahiro, 292,285, Cl. D14-64.000.
Kando, Masahiro, 292,976, Cl. D14-94.000.
Kikuchi, Nobuo; and Fushimoto, Hideo, 289,415, Cl. D18-7.000.
Kikuchi, Nobuo; and Odagawa, Kazuyoshi, 289,903, Cl. D18-7.000.
Kojima, Tatsuo; and Yomo, Takashi, 287,730, Cl. D14-111.000.
Kojima, Tatsuo, 288,330, Cl. D16-11.000.
Kojima, Tatsuo, 288,333, Cl. D16-28.000.
Kojima, Tatsuo, 291,321, Cl. D16-14.000.
Kondo, Yuji, 289,645, Cl. D14-78.000.
Nezu, Shigeru; and Uematsu, Sakae, 292,213, Cl. D14-113.000.
Nezu, Shigeru, 293,111, Cl. D14-102.000.
Nibley, Richard; and Haranishi, Noriaki, 291,580, Cl. D18-1.000.
Omino, Seiichi; and Shimoyama, Noboru, 290,715, Cl. D18-12.000.
Omino, Seiichi; and Itazawa, Toshiaki, 292,806, Cl. D18-1.000.
Takahashi, Masaki, 290,122, Cl. D14-100.000.
Tanaka, Noboru; and Sahori, Daisuke, 289,621, Cl. D10-125.000.
Yomo, Takashi, 290,705, Cl. D14-114.000.
Yomo, Takashi, 291,096, Cl. D18-13.000.
Yoshida, Michio; and Tamamura, Hideo, 289,176, Cl. D16-8.000.
Yoshioka, Eiichi; and Fushimoto, Hideo, 289,416, Cl. D18-7.000.
Yoshioka, Eiichi; and Murakami, Osamu, 289,418, Cl. D18-7.000.
Yoshioka, Eiichi; and Fushimoto, Hideo, 289,419, Cl. D18-7.000.
Canper Industrial Products Ltd.: *See*—
Peress, Maurice S., 288,799, Cl. D12-203.000.
Canter, Stanton J., to Diversified Group, Inc. Point of sale display module. 288,394, 2-24-87, Cl. D6-475.000.
Canter, Stanton J., to Diversified Group, Inc. Display shelf. 291,267, 8-11-87, Cl. D6-511.000.
Capawana, Ross. Circuit board cover. 288,803, 3-17-87, Cl. D13-40.000.
Capawana, Ross. Conveyor cleat. 293,037, 12-1-87, Cl. D34-35.000.
Capitol Products Corporation: *See*—
Schmidt, Dietrich F., 288,244, Cl. D25-52.000.
Capo, Carl L.: *See*—
Capo, James L.; and Capo, Carl L., 290,978, Cl. D21-82.000.
Capo, James L.; and Capo, Carl L. Flying toy. 290,978, 7-21-87, Cl. D21-82.000.
Cappotto, Samuel D.; and Bartolone, Anthony, to SCM Corporation. Ribbon cassette. 289,529, 4-28-87, Cl. D18-22.000.
Capps, Grover H., to Trucksafe, Inc. Fifth wheel. 289,514, 4-28-87, Cl. D12-161.000.
Caputo, Nick: *See*—
Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 289,743, Cl. D10-73.000.
Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 290,094, Cl. D10-73.000.
Car Mate Mfg. Co., Ltd.: *See*—
Sakai, Kazumi, 290,187, Cl. D3-35.000.
Sakai, Kazumi, 290,189, Cl. D3-40.000.
Suzuki, Atsuhiro, 291,288, Cl. D10-78.000.
Carb-A-Drink International, Inc.: *See*—
Mortimer, George H., 287,688, Cl. D7-307.000.
Mortimer, George H., 287,689, Cl. D7-307.000.
Mortimer, George H., 288,516, Cl. D7-307.000.
Carbone, Luigi. Boat guide roller assembly. 292,870, 11-24-87, Cl. D8-354.000.
Carder, Mervin L., Sr., to M. Carder Industries, Inc. Splash guard for a fuel dispensing nozzle. 287,996, 1-27-87, Cl. D23-36.000.
Cardinal Industries, Inc.: *See*—
Downing, Lucien R., 292,316, Cl. D25-22.000.
Downing, Lucien R., 292,434, Cl. D25-22.000.
Caretti, Giuseppe. Shoe. 288,742, 3-17-87, Cl. D2-270.000.
Carey, David L.; and Riley, Robert O. Exercise machine. 289,784, 5-12-87, Cl. D21-195.000.
Cari-All Inc.: *See*—
Trubiano, Antoine, 288,619, Cl. D34-27.000.
Trubiano, Antoine, 290,177, Cl. D34-23.000.
Trubiano, Antoine, 292,538, Cl. D34-27.000.
Trubiano, Antoine, 293,204, Cl. D8-380.000.
Carl Platz GmbH: *See*—
Bauer, Horst, 291,113, Cl. D23-17.000.
Carlson, Arthur R., to Decor Corporation Proprietary Limited, The. Planter. 288,793, 3-17-87, Cl. D11-153.000.
Carlson, Arthur R., to Decor Corporation Proprietary Limited, The. Planter. 288,794, 3-17-87, Cl. D11-153.000.
Carlson, Arthur R., to Decor Corporation Proprietary Limited, The. Bottle. 289,612, 5-5-87, Cl. D9-389.000.
Carlson, Arthur R., to Brian Davis and Company Pty. Ltd. Combination cooler box, bottle and tray. 290,080, 6-2-87, Cl. D7-77.000.
Carlson, Arthur R. Carrier for a wine cask bladder and spigot. 290,308, 6-16-87, Cl. D3-30.100.
Carlson, Arthur R., to Decor Corporation Proprietary Limited, The. Beverage serving stand. 290,914, 7-21-87, Cl. D6-474.000.
Carlson, Bradley C. Dual compartment bottle or similar article. 289,855, 5-19-87, Cl. D9-341.000.
Carlson, Bradley C. Multiple chamber dispenser. 290,225, 6-9-87, Cl. D9-341.000.
Carlson, Bradley C. Dispensing container. 292,773, 11-17-87, Cl. D9-300.000.

Carlson, Casey L.; and Libby, James B., to Wagner Spray Tech Corporation. Power unit for feeding paint or the like. 289,402, 4-21-87, Cl. D15-7.000.

Carlson, Scott W.; Sembrowich, Walter L.; Knudson, Mark B.; Little, Richard L.; Eibensteiner, Ronald E.; Johnson, Logan W.; and Funk, Roger L., to SenTech Medical Corporation. Clinical chemistry analyzer. 288,478, 2-24-87, Cl. D24-17.000.

Carlson, Scott W.: *See*—
Knudson, Mark B.; Sembrowich, Walter L.; Carlson, Scott W.; Little, Richard L.; Eibensteiner, Ronald E.; and Baker, Richard W., 292,229, Cl. D24-21.000.

Carlsson, Ake: *See*—
Nilsson, Hans-Erik; and Carlsson, Ake, 287,749, Cl. D23-77.000.

Carmichael, Bruce. Carrier attachment for an automobile seat or the like. 293,162, 12-15-87, Cl. D3-40.000.

Carmichael, William E., to Morfee Industries Ltd. Vehicle wheel hub. 292,200, 10-6-87, Cl. D12-207.000.

Carnahan, Virgil B. Card punch. 292,419, 10-20-87, Cl. D19-72.000.

Caron, Frederic J. Automobile carriage rack. 288,193, 2-10-87, Cl. D12-157.000.

Carpenter Manufacturing Co.: *See*—
Goldsmith, Arthur; and Carpenter, Thomas, 292,100, Cl. D15-127.000.

Carpenter, Thomas: *See*—
Goldsmith, Arthur; and Carpenter, Thomas, 292,100, Cl. D15-127.000.

Carr, Alan R. High frequency pulsed dopple radar antenna. 288,443, 2-24-87, Cl. D14-86.000.

Carr, Christopher; and Witt, James J., Jr., to Procter & Gamble Company, The. Inner pack bottle carrier. 291,657, 9-1-87, Cl. D9-344.000.

Carr, David B.; Lingenfelter, Keith M.; Mitchell, James E.; Moore, Larry W.; Tag, Palmer L.; and Case, Robert, to Abbott Laboratories. Carousel for chemical analyzer or the like. 287,634, 1-6-87, Cl. D24-31.000.

Carr, David E. Cover for a linear actuator for an earth station satellite-receiving antenna. 289,164, 4-7-87, Cl. D14-90.000.

Carr, Donald W.; and Serbinski, Andrew T., to Savin Corporation. Copying machine. 291,892, 9-15-87, Cl. D16-30.000.

Carr, Peter B., to Standard Telephones and Cables, Plc. Portable radio pager. 292,096, 9-29-87, Cl. D14-68.000.

Carrabba, Frank. Folding table. 290,560, 6-30-87, Cl. D6-429.000.

Carrier Corporation: *See*—
Peters, David C.; Williams, Derek P.; and Chadwick, William C., 289,414, Cl. D18-7.000.

Carris, Bonnis S.: *See*—
Johannsen, Donald R., 287,815, Cl. D8-93.000.

Carroll, J. Frank; and Williamson, Edward M. Technical pen adapter. 288,336, 2-17-87, Cl. D19-54.000.

Carrothers, Hugh S.: *See*—
Yew, Kwang; and Carrothers, Hugh S., 289,401, Cl. D15-5.000.
Yew, Kwang; and Carrothers, Hugh S., 291,807, Cl. D15-5.000.

Carson, David: *See*—
Rodis-Jamero, Nilo; and Carson, David, 288,945, Cl. D21-87.000.

Carson's, Inc.: *See*—
Culler, Randy R., 288,990, Cl. D6-335.000.

Carter Associates, Inc.: *See*—
Carter, Lloyd W., 289,971, Cl. D8-350.000.

Carter, Clyde L. Tissue box holder. 293,182, 12-15-87, Cl. D6-518.000.

Carter, Gene C. Fireplace and wood stove ash remover. 288,120, 2-3-87, Cl. D23-131.000.

Carter, Henry P. Door controlled flag for mailbox. 287,898, 1-20-87, Cl. D99-29.000.

Carter, James S.: *See*—
Wilson, Thomas C.; and Carter, James S., 289,050, Cl. D14-111.000.
Wilson, Thomas C.; and Carter, James S., 289,396, Cl. D14-100.000.
Wilson, Thomas C.; and Carter, James S., 290,124, Cl. D14-105.000.
Wilson, Thomas C.; and Carter, James S., 292,404, Cl. D14-107.000.

Carter, Lloyd W., to Carter Associates, Inc. Protective guard for door handle. 289,971, 5-26-87, Cl. D8-350.000.

Carter, Stanley R., Jr. Frame for barbell weights or similar article. 291,820, 9-8-87, Cl. D21-191.000.

Carville, Michele A., to Kraft, Inc. Bottle. 291,865, 9-15-87, Cl. D9-322.000.

Carville, Michele A., to Rubbermaid Incorporated. Wheeled refuse container. 292,638, 11-3-87, Cl. D34-5.000.

Case, Robert: *See*—
Carr, David B.; Lingenfelter, Keith M.; Mitchell, James E.; Moore, Larry W.; Tag, Palmer L.; and Case, Robert, 287,634, Cl. D24-31.000.
Tag, Palmer L.; and Case, Robert, 289,199, Cl. D24-31.000.

Cashmere, Raymond, to Adventure Plastics Pty. Ltd. Water toboggan and surf knee board. 290,151, 6-2-87, Cl. D21-236.000.

Casio Computer Co., Ltd.: *See*—
Nikaido, Takashi; Ono, Yoshio; and Wada, Masao, 293,300, Cl. D10-32.000.
Serikawa, Shiro; Endo, Akinori; and Maruyama, Koji, 290,611, Cl. D14-111.000.
Takeichi, Takashi, 292,678, Cl. D10-39.000.

Casio Electronics Manufacturing Co., Ltd.: *See*—
Serikawa, Shiro; Endo, Akinori; and Maruyama, Koji, 290,611, Cl. D14-111.000.

Casnovsky, William M.: *See*—
Ng, Edward C.; and Casnovsky, William M., 287,968, Cl. D14-106.000.

Cassidy, Edward K.: *See*—
Moloney, Thomas E.; Chernikoff, Nelson N.; Traczyk, Edward S.; Shulski, Michael M.; Cassidy, Edward K.; and Mann, John M., 290,688, Cl. D9-398.000.

Cassina S.p.A.: *See*—
Rodriquez, Rodrigo, 290,912, Cl. D6-367.000.

Cassini, Oleg I. Perfume bottle. 291,660, 9-1-87, Cl. D9-384.000.

Castellanet, Vincent F., to Gillette Company, The. Bottle holder. 288,411, 2-24-87, Cl. D9-455.000.

Castelli S.p.A.: *See*—
Monesi, Mauro, 291,159, Cl. D6-366.000.
Monesi, Mauro, 292,149, Cl. D6-380.000.

Castle Company. *See*—
Scoville, John R., Jr.; and LePage, Danny J., 289,206, Cl. D26-140.000.

Castor, Dennis B.; and Harper, John W., to NuTone Inc. Combination ceiling light and vent grille. 287,888, 1-20-87, Cl. D26-59.000.

Castro, Eric; Castro, Manuel; and Silva, Frank T. Football game dart board. 293,455, 12-29-87, Cl. D21-6.000.

Castro, Manuel: *See*—
Castro, Eric; Castro, Manuel; and Silva, Frank T., 293,455, Cl. D21-6.000.

Caswell, William G. Wire wheel brush. 293,166, 12-15-87, Cl. D4-137.000.

Catania, Joseph J.; Gaudino, Angelo; DeTuzzi, Russell; and Gardner, Maxwell, to Century Fireplace Furnishings, Inc. Fireplace screen. 288,712, 3-10-87, Cl. D23-138.300.

Catania, Joseph J.; Gaudino, Angelo; DeTuzzi, Russell; and Gardner, Maxwell, to Century Fireplace Furnishings, Inc. Fireplace screen. 289,918, 5-19-87, Cl. D23-138.300.

Caterpillar Inc.: *See*—
Proeschl, Bernard E., 289,748, Cl. D12-15.000.

Cathcart, Janet F.; and Ingersoll, Kathleen. Tote bag. 287,667, 1-13-87, Cl. D3-42.000.

Cathcart, Janet F.; and Ingersoll, Kathleen. Food tote bag. 288,146, 2-10-87, Cl. D3-42.000.

Catracchia, Ambrogio. Dental cleaning jet. 293,466, 12-29-87, Cl. D24-15.000.

Cattaneo, Marco, to MOMO S.p.A. Vehicle wheel. 292,693, 11-10-87, Cl. D12-211.000.

Caulkins, Earl R. Collar ornament. 291,788, 9-8-87, Cl. D11-213.000.

Cauque, Michele; and Ben-Zeev, Avry, to Sparklight Corporation. Combined key ring, torch, photograph holder and LCD watch. 293,287, 12-22-87, Cl. D3-62.000.

Cautereels, Victor J. J.: *See*—
Daenen, Robert H. C. M.; and Cautereels, Victor J. J., 289,613, Cl. D9-436.000.
Daenen, Robert H. C. M.; and Cautereels, Victor J. J., 290,326, Cl. D7-17.000.

Cavaliere, Mario P. Head ornament. 287,891, 1-20-87, Cl. D28-41.000.

Cavalli, Massimo F., heir: *See*—
Alfredo, Cavalli; Flippi, Cesarina, heir; Cavalli, Massimo F., heir; and Cavalli, Silvia, heir, 292,837, Cl. D32-73.000.

Cavalli, Silvia, heir: *See*—
Alfredo, Cavalli; Flippi, Cesarina, heir; Cavalli, Massimo F., heir; and Cavalli, Silvia, heir, 292,837, Cl. D32-73.000.

Cave, Carol. Plant stand. 292,953, 12-1-87, Cl. D6-405.000.

Cavnar, Kathryn A.: *See*—
Bedell, Rickie T.; and Cavnar, Kathryn A., 288,218, Cl. D21-113.000.

CD Nelson Consulting, Inc.: *See*—
Nelson, Clinton D., 287,653, Cl. D32-1.000.

CDA Industries Inc.: *See*—
Headon, Randall G., 292,355, Cl. D6-479.000.

Cedrone, Louis A.; and Vahjen, Bruce J., to PepsiCo Inc. Vending machine for beverages or the like. 287,863, 1-20-87, Cl. D20-5.000.

Centennial Jewelers, Inc.: *See*—
Finkler, Saul M., 288,414, Cl. D10-64.000.
Finkler, Saul M., 288,415, Cl. D10-64.000.

Centro Studi e Servizi Moda di Paolo Bertagnin & C. S.A.S.: *See*—
Bianchin Scarpa, Afra; and Scarpa, Tobia, 287,883, Cl. D25-9.000.
Bianchin Scarpa, Afra; and Scarpa, Tobia, 290,658, Cl. D25-58.000.
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Chouinard, Michael J. Fluid-powered hand punch. 287,567, 1-6-87, Cl. D8-61.000.
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Ieveland, C. Peyton, Jr., to International Chempack Corporation. Drum. 290,811, 7-14-87, Cl. D9-349.000.
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Bardeau, William M., 289,002, Cl. D7-355.000.
Bardeau, William M., 289,888, Cl. D8-323.000.
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Nestich, R. Frank, 292,120, Cl. D23-19.000.
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livio, Franco; and Raffler, Dieter, to Gardena Kress & Kastner GmbH. Timed control valve for sprinkler system. 289,431, 4-21-87, Cl. D23-38.000.
livio, Franco; and Raffler, Dieter, to Gardena Kress & Kastner GmbH. Combined portable hose reel and hose therefor. 289,492, 4-28-87, Cl. D8-359.000.
livio, Franco; and Raffler, Dieter, to Gardena Kress & Kastner GmbH. Washing brush with handle. 290,427, 6-23-87, Cl. D4-115.000.
livio, Franco; and Raffler, Dieter, to Gardena Kress & Kastner GmbH. Washing brush with rod. 290,553, 6-30-87, Cl. D4-115.000.
livio, Franco; and Raffler, Dieter, to Gardena Kress & Kastner GmbH. Fountain brush. 290,909, 7-21-87, Cl. D4-115.000.
livio, Franco; and Raffler, Dieter, to Gardena Kress & Kastner GmbH. Spray nozzle. 290,993, 7-21-87, Cl. D23-35.000.
livio, Franco; and Raffler, Dieter, to Gardena Kress & Kastner GmbH. Fountain brush. 291,028, 7-28-87, Cl. D4-115.000.
livio, Franco; and Raffler, Dieter, to Gardena Kress & Kastner GmbH. Combined pressure reducer and fertilizer dispenser. 291,112, 7-28-87, Cl. D23-3.000.
lover Mfg. Co., Ltd.: *See*—
Gakiya, Yoshiaki, 289,581, Cl. D3-28.000.
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lover, William M., Jr., to Kirstine/Hendricks. Dispensing container for pills or the like. 289,978, 5-26-87, Cl. D9-398.000.
lub Car, Inc.: *See*—
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lubb, Ardith A.: *See*—
Jernander, Steve; and Clubb, Ardith A., 292,641, Cl. D2-244.000.
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Chasen, Lee R., 289,139, Cl. D8-367.000.
Chasen, Lee R., 289,255, Cl. D8-367.000.
Chasen, Lee R., 290,804, Cl. D7-147.000.
Dunn, James R.; and Chasen, Lee R., 291,763, Cl. D7-105.000.
obb-Holloway, Irmatine. Shoe guard. 292,141, 10-6-87, Cl. D2-314.000.
oburn Optical Industries, Inc.: *See*—
Tusinski, Joseph, 292,293, Cl. D15-143.000.
oca-Cola Company, The: *See*—
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Brandes, John H.; King, Eddie W.; and Summerville, Don S., 290,619, Cl. D20-5.000.
King, Eddie W.; Duke, Herman K.; and Summerville, Don S., 288,574, Cl. D20-5.000.
Morgan, Annis R., Jr.; and Williford, Hugh S., 290,142, Cl. D20-5.000.
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Stembridge, William F.; Sturrock, James C.; and Stembridge, W. Frank, III, 289,879, Cl. D7-397.000.
Stembridge, William F.; Sturrock, James C.; and Stembridge, W. Frank, III, 289,880, Cl. D7-397.000.
ochran, E. Randall, to GTE Communication Systems Corporation. Housing for a desk telephone paystation base. 290,841, 7-14-87, Cl. D14-60.000.
ochran, Ken C. Combined basketball game goal and ball return. 293,125, 12-8-87, Cl. D21-201.000.
ockrell, William M. Measuring dispenser for coffee and other granular substances. 292,358, 10-20-87, Cl. D7-50.000.
odman & Shurtleff Inc.: *See*—
McGinley, Joseph A., 292,932, Cl. D19-62.000.
Walus, Richard L., 287,635, Cl. D24-41.000.
offel, Michael. Game board. 292,422, 10-20-87, Cl. D21-33.000.
oghill, Blain G. Game board. 289,531, 4-28-87, Cl. D21-15.000.
ohen, Morton. Cutlery sharpener. 288,169, 2-10-87, Cl. D8-93.000.
ohen, Robert M., to Micro Connection, Inc. Computer maintenance tool carrying case. 291,744, 9-8-87, Cl. D3-74.000.
ohen, Stanley D., to Staco Enterprises, Inc. Sun visor. 291,375, 8-11-87, Cl. D29-18.000.
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DelPercio, Michael J.; and Holland, Charlie R., 292,420, Cl. D20-4.000.
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Colani, Luigi, to Canon Kabushiki Kaisha. Camera. 289,409, 4-21-87, Cl. D16-2.000.
Colani, Luigi, to Canon Kabushiki Kaisha. Camera. 289,657, 5-5-87, Cl. D16-6.000.
Colani, Luigi, to Canon Kabushiki Kaisha. Camera. 289,658, 5-5-87, Cl. D16-6.000.
Colani, Luigi, to Canon Kabushiki Kaisha. Camera. 289,659, 5-5-87, Cl. D16-9.000.
Colani, Luigi, to Canon Kabushiki Kaisha. Electronic flash unit. 292,805, 11-17-87, Cl. D16-42.000.
Colby, Donald B., to Lee L. Woodard, Inc. Foldable table. 288,391, 2-24-87, Cl. D6-429.000.
Colby, Donald B., to Lee L. Woodward, Inc. Foldable chaise lounge frame. 291,507, 8-25-87, Cl. D6-361.000.
Colby, Jeffrey S. Mail pouch. 291,262, 8-11-87, Cl. D3-32.000.
Colclasure, George M. Novelty golf ball figure. 287,987, 1-27-87, Cl. D21-155.000.
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Cole, Mary, to Discovery Tags Inc. Label holder. 290,025, 5-26-87, Cl. D20-27.000.
Coleby, Richard J., to Thames Sack and Bag Company Limited, The. Combined heat sealing machine and trimmer. 289,054, 3-31-87, Cl. D15-146.000.
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Coleman Company, Inc., The: *See*—
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Crawford, John C., 289,977, Cl. D9-376.000.
Crawford, John C., 289,979, Cl. D9-404.000.
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Crawford, John C.; and Vogel, Steven A., 291,536, Cl. D9-440.000.
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Crawford, John C., 293,080, Cl. D9-376.000.
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Collingwood, Keith, to Reckitt & Colman Products Limited. Packaging container. 290,090, 6-2-87, Cl. D9-415.000.
Collins, Ethel. Pompon maker. 288,449, 2-24-87, Cl. D15-78.000.
Collins, John. Exterior roof panel of a cap for the bed of a pickup truck. 289,276, 4-14-87, Cl. D12-156.000.
Collins, John A., Jr. Orthodontic appliance. 290,503, 6-23-87, Cl. D24-10.000.
Collins, John A., Jr. Orthodontic appliance set. 290,504, 6-23-87, Cl. D24-10.000.
Collins, John A., Jr. Orthodontic appliance. 290,505, 6-23-87, Cl. D24-10.000.
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Collins, Randall J.: *See*—
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Collins, Raymond D., Sr. Meat tenderizer. 291,762, 9-8-87, Cl. D7-101.000.
Collins, Walter W., to Gerber Legendary Blades, Inc. Sheath. 291,626, 9-1-87, Cl. D3-102.000.
Collins, Walter W., to Gerber Legendary Blades, Inc. Knife pouch. 291,627, 9-1-87, Cl. D3-102.000.
Collis, John S., Jr. Surgical reamer. 288,360, 2-17-87, Cl. D24-28.000.
Collister, Kenneth D.; and Johnson, Steven C., to Miles Laboratories, Inc. Reflectance colorimeter. 292,277, 10-13-87, Cl. D10-46.000.
Colman, Donn, to Porter Coffee Company, The. Electric coffee brewer. 290,081, 6-2-87, Cl. D7-312.000.
Colnaghi, Mario, to Eurostil, S.r.l. Telephone figure pull toy. 287,865, 1-20-87, Cl. D21-111.000.
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Screen, Stafford T., 288,287, Cl. D8-375.000.
Colson Equipment, Inc.: *See*—
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Nakao, Shinroku; Kobayashi, Kouichi; Ishii, Yoshiyasu; and Matsuda, Hiroaki, 288,544, Cl. D12-129.000.
Nakao, Shinroku; Ishii, Yoshiyasu; and Fujiyama, Tetsumi, 290,029, Cl. D21-77.000.
Nakao, Shinroku; Ishii, Yoshiyasu; and Ishii, Kenshun, 290,149, Cl. D21-194.000.

Nakao, Shinroku; Ishii, Yoshiyasu; and Matsumoto, Susumu, 291,156, Cl. D6-338.000.
Nakao, Shinroku; Ishii, Yoshiyasu; and Hanashima, Taira, 291,214, Cl. D21-76.000.
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Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 289,743, Cl. D10-73.000.
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Combustion Engineering, Inc.: *See*—
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Commisso, Nicholas D.; De Cook, Edwin R.; Hisle, Ralph E.; and Rowe, Donald, to McDonald's Corporation. Dual compartment sandwich package. 292,483, 10-27-87, Cl. D9-341.000.

Commisso, Nicholas D.; De Cook, Edwin R.; Hisle, Ralph E.; and Rowe, Donald, to McDonald's Corporation. Dual compartment sandwich package. 292,878, 11-24-87, Cl. D9-341.000.

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Toms, Maxwell H., 291,178, Cl. D9-345.000.

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Rittenhouse, James M.; Haber, Barry M.; and Wong, Ting W., 292,092, Cl. D14-62.000.
Rittenhouse, James M.; Haber, Barry M.; and Wong, Ting W., 292,093, Cl. D14-62.000.
Rittenhouse, James M.; Haber, Barry M.; and Wong, Ting W., 292,284, Cl. D14-62.000.

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Conero, Ronald S.; and Landis, Terry L., to IVAC Corporation. Flow sensor for IV fluid administration. 291,353, 8-11-87, Cl. D24-8.000.

Conger, Stephen W., Sr. Dental polisher. 292,314, 10-13-87, Cl. D24-15.000.

Conley, D. Dwain, to Esselte Pendaflex Corporation. Air driven labeller. 291,451, 8-18-87, Cl. D18-19.000.

Conn, Marks M., to Mallin Company. Frame for an adjustable chaise. 291,749, 9-8-87, Cl. D6-361.000.

Conn, Marks M., to Mallin Company. Table or the like. 291,752, 9-8-87, Cl. D6-487.000.

Conn, Marks M., to Mallin Company. Frame for a swivel rocker. 291,846, 9-15-87, Cl. D6-344.000.

Conn, Marks M., to Mallin Company. Table or the like. 291,852, 9-15-87, Cl. D6-487.000.

Conn, Marks M., to Mallin Company. Frame for an adjustable chaise. 291,948, 9-22-87, Cl. D6-361.000.

Connelly, Patrick J.; and Hoyt, Denis J., to Connelly Skis, Inc. Water ski. 293,259, 12-15-87, Cl. D21-229.000.

Connelly, Patrick J.; and Hoyt, Denis J., to Connelly Skis, Inc. Water ski. 293,260, 12-15-87, Cl. D21-229.000.

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Connelly, Patrick J.; and Hoyt, Denis J., 293,259, Cl. D21-229.000.
Connelly, Patrick J.; and Hoyt, Denis J., 293,260, Cl. D21-229.000.

Connor, John A., to Kaama Marine Engineering, Inc. Muffler for boats. 289,295, 4-14-87, Cl. D15-4.000.

Conrad, Andrew: *See*—
Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 289,743, Cl. D10-73.000.
Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 290,094, Cl. D10-73.000.

Conrad, George R., to Continental Plastic Containers, Inc. Bottle or the like. 290,228, 6-9-87, Cl. D9-349.000.

Conrad, George R., to Continental Plastic Containers, Inc. Bottle or the like. 293,210, 12-15-87, Cl. D9-405.000.

Conroy, David E.: *See*—
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Chen, York, 290,183, Cl. D2-320.000.

Conti, Rino; and Trivison, Jody A., to Dart Industries Inc. Covered pitcher or the like. 287,691, 1-13-87, Cl. D7-317.000.

Conti, Rino: *See*—
Bateman, Robert F.; Conti, Rino; Nottingham, John R.; and Spirk, John R., 291,583, Cl. D21-59.000.
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Convergent Technologies, Inc.: *See*—
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Keely, Leroy B.; Freige, Diab E.; and Nuttall, Michael J., 287,724, Cl. D14-100.000.
Keely, Leroy B.; Freige, Diab E.; and Nuttall, Michael J., 287,8 Cl. D13-11.000.
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Converse Inc.: *See*—
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Grubel, Guy, 290,782, Cl. D2-320.000.
O'Rourke, John J., 290,541, Cl. D2-310.000.
O'Rourke, John J., 290,542, Cl. D2-310.000.
Yonkers, Ronald C., 290,543, Cl. D2-320.000.

Conway, Ronald I.; and Lucente, Samuel A., to International Business Machines Corporation. Computer display or the like. 290,363, 6-16-87, Cl. D14-113.000.

Conway, Ronald I.; Lucente, Samuel A.; and Schaum, David L., to International Business Machines Corporation. Multiple control element unit for data processing apparatus. 291,806, 9-8-87, Cl. D14-114.000.

Cook, Donald W. Hose splicer. 290,646, 6-30-87, Cl. D22-43.000.

Cook, Gregory D., to Cook Manufacturing Corporation. Detachable passenger compartment for a golf cart. 291,878, 9-15-87, Cl. D12-156.000.

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Cook on Gas Products Pty. Limited: *See*—
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Cook, Ronald E. Spreader for mayonnaise or the like. 293,072, 12-8-87, Cl. D7-99.000.

Cook, Ronald F.: *See*—
Fischer, Danial O.; and Cook, Ronald F., 289,140, Cl. D8-373.000.

Cook, Terry L.: *See*—
Hughes, George W.; Cook, Terry L.; and Burchfield, Darrell, 290,449, Cl. D12-5.000.

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Block, Thomas S., 290,054, Cl. D32-15.000.
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Dacanay, Romeo A., 291,925, Cl. D26-61.000.
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Kusmer, Raymond J., 291,929, Cl. D26-138.000.
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Cooper, Marvin, to Dynamic Classics, Ltd. Bicycle stand. 288,995, 3-31-87, Cl. D6-462.000.

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Cooper, William C. Bottle. 292,371, 10-20-87, Cl. D9-309.000.

Coralline, William. Bingo chip bell. 290,691, 7-7-87, Cl. D10-116.000.

Corbett, Timothy J. Animal feeder. 290,051, 5-26-87, Cl. D30-13.000.

Corcorran, Sean M.; and Freyer, Jorge L. Lamp. 291,365, 8-11-87, Cl. D26-110.000.

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Corder, Donald T., 292,218, Cl. D17-22.000.

Corder, Thomas E.; and Mullins, Keith M., to Intermatic Electronics Incorporated. Power failure warning light. 288,245, 2-10-87, Cl. D26-26.000.

Cordero, Tony, to Jungle Jap. Combined clothes storage unit and lamp. 289,350, 4-21-87, Cl. D6-399.000.

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Bardwell, Paul W.; Bardwell, F. Carolyn; and Corey, Irene, 289,188, Cl. D21-171.000.
Cormier, Jeff Z. Game scoring board. 291,418, 8-18-87, Cl. D10-46.100.
Cornell, Clifford B. Scraper. 293,143, 12-8-87, Cl. D32-46.000.
Cornette, Clint G. Leg elevating support for a sunbather. 290,320, 6-16-87, Cl. D6-491.000.
Cornrich, Manuel. Pet food dispenser. 288,736, 3-10-87, Cl. D30-13.000.
Cornwell, Paul D., to Import Auto Products, Ltd. Dashboard cover. 288,429, 2-24-87, Cl. D12-192.000.
Cornwell, Paul D., to Import Auto Products, Ltd. Dashboard cover. 288,430, 2-24-87, Cl. D12-192.000.
Cornwell, Paul D., to Import Auto Products, Ltd. Dashboard panel. 291,983, 9-22-87, Cl. D12-192.000.
Cornwell, Paul D. to Import Auto Products, Ltd. Dashboard panel. 291,984, 9-22-87, Cl. D12-192.000.
Cornwell, Paul D., to Import Auto Products, Ltd. Dashboard panel. 291,985, 9-22-87, Cl. D12-192.000.
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Coscione, Joseph D.; French, John T.; and Harris, Willard P., to Fireplace Manufacturers, Inc. Glass fireplace door. 290,392, 6-16-87, Cl. D23-138.300.
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Costa, Allan. Dual unit container. 292,268, 10-13-87, Cl. D9-347.000.
Costa, Allan. Dual unit container. 292,373, 10-20-87, Cl. D9-347.000.
Costan S.p.A.: *See—*
De Zolt, Ivano, 290,667, Cl. D6-472.000.
Cotchonis, N. Eugene. Golf putter head. 289,912, 5-19-87, Cl. D21-219.000.
Cottage Industries (Equestrian) Ltd.: *See—*
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Cotton, Raymond F.: *See—*
Anzelone, Thomas A.; Cotton, Raymond F.; Davis, Myron F.; del Sol, Pedro D.; Ewart, Robert M., Jr.; Goetz, Fred E.; and Lewis, Paul B., 290,360, Cl. D14-100.000.
Couch, James S.; Teufel, Rainer B.; Platts, David E.; Zarich, Peter T.; and Whitcomb, Thomas M., to Hurco Manufacturing Co., Inc. Controller for a machine tool. 288,820, 3-17-87, Cl. D15-138.000.
Couch, Quest C., III: *See—*
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Courney, Norman. Animal toothbrush. 290,426, 6-23-87, Cl. D4-103.000.
Courteau, Marc A. Aviary exercise unit. 292,334, 10-13-87, Cl. D30-42.000.
Courtemanche, Richard; and McCormack, Timothy D. Hook implement for holding disposable receptacle liners. 288,284, 2-17-87, Cl. D8-373.000.
Courtwright, Lorraine M.; and Freeland, Roberta A. Roll type case or similar article. 288,264, 2-17-87, Cl. D3-75.000.
Covell, Edward F.; and Shaw, Raymond C., to Tambrands Inc. Diagnostic test kit. 288,479, 2-24-87, Cl. D24-17.000.
Covell, Edward F.; and Cannon, Lovick E., III, to Tambrands Inc. Diagnostic test kit. 288,716, 3-10-87, Cl. D24-17.000.
Cowan, Arnold A., to Gem Products, Inc. Piercing valve. 288,708, 3-10-87, Cl. D23-19.000.
Cowan, David A. Condiment grinding device. 289,848, 5-19-87, Cl. D7-387.000.
Cowart, Betty J.: *See—*
Kilman, Brenda J.; and Cowart, Betty J., 291,930, Cl. D28-59.000.
Cowdroy, John C., to Clive Instruments Pty. Ltd. Corner connector for a showcase. 288,881, 3-24-87, Cl. D6-491.000.
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Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, 290,725, Cl. D21-166.000.
Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, 290,726, Cl. D21-166.000.
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Steer, Peter L., 289,797, Cl. D24-54.000.
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Wedel, Hans, 293,148, Cl. D34-21.000.
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Smith, Vance, 288,351, Cl. D23-58.000.
Smith, Vance, 288,352, Cl. D23-58.000.
Smith, Vance, 288,353, Cl. D23-58.000.
Smith, Vance, 288,354, Cl. D23-58.000.
Smith, Vance, 288,355, Cl. D23-70.000.
Cranford, Michael D., to Ocean Gem, Inc. Collapsible plastic holder for a container or the like. 291,168, 8-4-87, Cl. D7-70.000.
Crapser, James R., to S. C. Johnson & Son, Inc. Actuator cap. 293,213, 12-15-87, Cl. D9-448.000.
Crapser, James R., to S. C. Johnson & Son, Inc. Valve actuator cap. 293,214, 12-15-87, Cl. D9-448.000.
Craver, Richard D., to Orrville Products, Inc. Full-face fireplace insert. 288,595, 3-3-87, Cl. D23-94.000.
Crawford, Dennis L., to Lenox, Incorporated. Jewelry display stand. 288,155, 2-10-87, Cl. D6-467.000.
Crawford, Dennis L.; and Johnson, Logan W., to Minnesota Mining and Manufacturing Company. Tape dispenser. 289,180, 4-7-87, Cl. D19-69.000.
Crawford, John C., to Colgate-Palmolive Company. Packaging container for a toothbrush. 288,907, 3-24-87, Cl. D9-415.000.
Crawford, John C., to Colgate-Palmolive Company. Packaging container for a toothbrush. 289,014, 3-31-87, Cl. D9-415.000.
Crawford, John C., to Colgate-Palmolive Company. Bottle. 289,977, 5-26-87, Cl. D9-376.000.
Crawford, John C., to Colgate-Palmolive Company. Bottle. 289,979, 5-26-87, Cl. D9-404.000.
Crawford, John C., to Colgate-Palmolive Company. Reclosable dispenser top. 291,411, 8-18-87, Cl. D9-440.000.
Crawford, John C.; and Vogel, Steven A., to Colgate-Palmolive Company. Rotating dispenser top. 291,536, 8-25-87, Cl. D9-440.000.
Crawford, John C.; and Weissman, Neal V., to Colgate-Palmolive Company. Container closure. 291,537, 8-25-87, Cl. D9-440.000.
Crawford, John C., to Colgate-Palmolive Company. Bottle. 293,080, 12-8-87, Cl. D9-376.000.
Crawford, Thomas J., to Classics Motor Carriages. Automobile. 288,186, 2-10-87, Cl. D12-92.000.
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Creed, Bruce W. Combined book holder and light assembly. 287,604, 1-6-87, Cl. D19-91.000.
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Berfield, Robert C.; Meland, Ronald F.; and Crevling, Robert L., Jr., 287,895, Cl. D32-25.000.
Crews, Jay A. Keyboard. 287,854, 1-20-87, Cl. D14-100.000.
Crisp, Edward T., Jr.; and Davidson, Willard M., Jr. Door security brace. 290,579, 6-30-87, Cl. D8-339.000.
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Croker, Sherrie; DiLullo, Charles S.; Bruhin, David W.; Brown, Elsie; and Pollock, D. Bruce, to American College, The. Jewelry key. 292,502, 10-27-87, Cl. D11-81.000.

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Cron, Kenneth D.; and Sauvigne, Nannette, to STL, Enterprises. Toothbrush. 293,288, 12-22-87, Cl. D4-104.000.
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Crouch, Edward M. Dickey. 290,904, 7-21-87, Cl. D2-602.000.
Crow, Herman L. Liquid dispenser. 287,993, 1-27-87, Cl. D23-17.000.
Crowell, Christopher S., to Structural Graphics Inc. Desk top decoration or container for holding pencils and the like. 288,410, 2-24-87, Cl. D9-335.000.
Crowle, William G.; and Udelhofen, Mark J., to Illinois Tool Works Inc. Low profile buckle. 289,622, 5-5-87, Cl. D11-216.000.
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Crymes, Marion C. Snuff box holder. 291,389, 8-18-87, Cl. D3-106.000.
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Culler, Randy R., to Carson's, Inc. Sectional sofa. 288,990, 3-31-87, Cl. D6-335.000.
Culler, Randy R., to Sklar-Peppler, Inc. Seat. 292,146, 10-6-87, Cl. D6-334.000.
Cummings, Donald P.; and Howitt, Robert T., to Hyde Mfg. Co. Tool handle. 291,404, 8-18-87, Cl. D8-107.000.
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Cunningham, Roy R. Clock base. 290,588, 6-30-87, Cl. D10-128.000.
Cunningham, Roy R. Clock casing. 291,186, 8-4-87, Cl. D10-128.000.
Cunningham, Roy R. Combined clock and stand. 291,290, 8-11-87, Cl. D10-128.000.
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Padilla, James M., 290,386, Cl. D23-3.000.
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Curiel C., Ernesto C. Pontoon boat. 292,509, 10-27-87, Cl. D12-316.000.
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Curran, Brian. Games sheet. 292,998, 12-1-87, Cl. D21-37.000.
Curran, Brian. Games sheet. 292,999, 12-1-87, Cl. D21-37.000.
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Cyujou, Kennosuke; Takaono, Hitoshi; and Nanjou, Tsuguo, to Kowa Company, Ltd. Fundus camera. 288,822, 3-17-87, Cl. D16-2.000.
Czyborra, Gerhard W., to Microlectric Canada Ltd. Cable strap. 291,410, 8-18-87, Cl. D8-394.000.
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Schoenig, Darrell A., 288,755, Cl. D6-462.000.
Schoenig, Darrell A.; and Lindskog, Jon L., 289,835, Cl. D6-462.000.
D.T.R. Co., Ltd.: *See—*
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Daar, Yair; and Yahav, Shimon. Depilator. 290,398, 6-16-87, Cl. D24-26.000.
Dacanay, Romeo A., to Cooper Industries, Inc. Wall wash light fixture for tracking lighting system. 291,602, 8-25-87, Cl. D26-24.000.
Dacanay, Romeo A., to Cooper Industries, Inc. Framing projector for track lighting system. 291,925, 9-15-87, Cl. D26-61.000.
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Walsh, Mark L., 288,346, Cl. D21-258.000.
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Daenen, Robert H. C. M.; DeCoster, Pieter K. J.; and Wolff, Martin J., to Dart Industries Inc. Casserole dish or the like. 287,559, 1-6-87, Cl. D7-21.000.
Daenen, Robert H. C. M., to Dart Industries Inc. Covered serving tray or the like. 287,802, 1-20-87, Cl. D7-17.000.
Daenen, Robert H. C. M.; DeCoster, Pieter K. J.; and Wolff, Martin J., to Dart Industries Inc. Casserole dish cover or the like. 287,803, 1-20-87, Cl. D7-40.000.
Daenen, Robert H. C. M.; and DeCoster, Pieter K. J., to Dart Industries Inc. Gelatin mold or the like. 288,052, 2-3-87, Cl. D7-43.000.
Daenen, Robert H. C. M.; DeCoster, Pieter K. J.; and Wolff, Martin J., to Dart Industries Inc. Casserole dish or the like. 288,649, 3-10-87, Cl. D7-20.000.
Daenen, Robert H. C. M.; and Cautereels, Victor J. J., to Dart Industries Inc. Hanging tab for a storage container closure. 289,613, 5-5-87, Cl. D9-436.000.
Daenen, Robert H. C. M.; DeCoster, Pieter K. J.; and Wolff, Martin J., to Dart Industries Inc. Casserole dish cover. 289,719, 5-12-87, Cl. D7-40.000.
Daenen, Robert H. C. M.; DeCoster, Pieter K. J.; and Wolff, Martin J., to Dart Industries Inc. Loaf pan or the like. 289,844, 5-19-87, Cl. D7-21.000.
Daenen, Robert H. C. M.; and Cautereels, Victor J. J., to Dart Industries Inc. Covered serving tray or the like. 290,326, 6-16-87, Cl. D7-17.000.
Daenen, Robert H. C. M., to Dart Industries Inc. Cover or the like. 290,924, 7-21-87, Cl. D7-391.000.
Daenen, Robert H. C. M.; DeCoster, Pieter K. J.; and Wolff, Martin J., to Dart Industries Inc. Colander or the like. 291,522, 8-25-87, Cl. D7-47.000.
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Kim, Young S., 293,071, Cl. D7-384.000.
Kim, Young S., 293,195, Cl. D7-384.000.
Young Se, Kim, 288,597, Cl. D23-146.000.
Dahlberg, Bruno. Urinal bag. 288,608, 3-3-87, Cl. D24-54.000.
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Stowell, Davin; Viemeister, Tucker; and Dair, Thomas, 291,173, Cl. D8-36.000.
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Inoue, Koui, 290,752, Cl. D25-73.000.
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Nakamura, Hideo, 290,635, Cl. D22-140.000.
Nakamura, Hideo, 291,473, Cl. D22-140.000.
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Dalbey, Gary L.; and Huston, Ronald L., to Hulsizer's, Inc. Display panel for shelving. 291,097, 7-28-87, Cl. D20-44.000.
Daly, Lewis J. Pool access stair. 289,692, 5-5-87, Cl. D25-62.000.
Daly, Lewis J. Pool access stair. 290,044, 5-26-87, Cl. D25-62.000.
Daly, Lewis J. Pool access apparatus for the disabled. 293,475, 12-29-87, Cl. D25-62.000.
Danchulis, James E., to Allegheny International Exercise Co. Exercise treadmill. 289,667, 5-5-87, Cl. D21-192.000.
Dancy, H. Gordon, to Sonoco Products Company. Bag pack. 287,572, 1-6-87, Cl. D9-341.000.
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Rasmussen, Else J., 292,432, Cl. D23-311.000.
D'Antonio, Peter; and Konnert, John H., to RPG Diffusor Systems, Inc. Acoustical baffle. 291,601, 8-25-87, Cl. D25-80.000.
Dardashti, Jamshid, to J & F Import-Export International, Inc. Battery powered flour sifter. 290,921, 7-21-87, Cl. D7-47.000.
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Darnall, Keith L.; and Hudson, Gary A. Hunting target. 288,465, 2-24-87, Cl. D22-15.000.
Darneal, Terri L. Air freshening attachment for ventilation register or the like. 288,713, 3-10-87, Cl. D23-148.000.
Darnell, Eric. Boomerang. 290,030, 5-26-87, Cl. D21-82.000.
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Diamond, Harvey E. Bathtub. 288,470, 2-24-87, Cl. D23-55.000.
Diamond, Harvey E. Set of wells for bathtubs. 290,390, 6-16-87, Cl. D23-69.000.
Diamond, Harvey E. Overflow cavity and cover for bathtub. 290,995, 7-21-87, Cl. D23-69.000.
DiCarlo, Paul; and Halt, John, to Xomed Inc. Surgical saw handpiece. 290,750, 7-7-87, Cl. D24-28.000.
DiCavalcante, Michael L. Belt. 290,185, 6-9-87, Cl. D2-630.000.
Dick, H. Wayne; and Shoemaker, John B., to PPG Industries, Inc. Yarn bobbin. 292,643, 11-10-87, Cl. D3-24.000.
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Dickey, Rosalie J. Meat tenderizer. 293,411, 12-29-87, Cl. D7-382.000.
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Dickie, Paul; Baker, David S.; and Murta, Donna. Shotgun shell holder. 292,849, 11-24-87, Cl. D3-100.000.
Dickman, Benjamin. Portable tray for attachment to a beach umbrella. 291,635, 9-1-87, Cl. D6-509.000.
Dickson, William J., to Jamie Dickson Design Inc. Computer work station unit. 289,114, 4-7-87, Cl. D6-421.000.
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Hoover, John W.; Rutkowski, Richard G.; and Luppino, Rocco, 291,882, Cl. D14-3.000.
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Rutkowski, Richard G.; and Hoover, John W., 293,100, Cl. D14-11.000.
Weisz, Sandor F.; and Jenkins, Ian R., 290,258, Cl. D14-111.000.
Dideriksen, Erling T., to Interlego A.G. Combined toy helicopter and figures. 289,781, 5-12-87, Cl. D21-90.000.
Dideriksen, Erling T., to Interlego A.G. Toy airplane. 290,031, 5-26-87, Cl. D21-87.000.
Dideriksen, Erling T., to Interlego A.G. Telescopic toy building element. 290,627, 6-30-87, Cl. D21-108.000.
Dideriksen, Erling T., to Interlego A.G. Toy building element. 290,628, 6-30-87, Cl. D21-108.000.
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Long, Douglas G., 289,818, Cl. D99-28.000.
Long, Douglas G., 289,819, Cl. D99-28.000.
Long, Douglas G., 291,936, Cl. D99-28.000.
Thomas, Leron, 289,777, Cl. D20-1.000.
Thomas, Leron, 289,778, Cl. D20-1.000.
Diefenbach, Berndt, to Arthur Eugster Elektro Haushaltgerate. Espresso machine. 292,258, 10-13-87, Cl. D7-309.000.
Diener, Horst, to Messerschmitt-Bolkow-Blohm GmbH. Ceiling panel for aircraft. 288,553, 3-3-87, Cl. D12-195.000.
Diensthuber, Franz, to Semperit Reifen Aktiengesellschaft. Tire. 289,027, 3-31-87, Cl. D12-147.000.
DiFede, John. Plastic bucket lid removal tool. 291,051, 7-28-87, Cl. D8-40.000.
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Dikoff, Joseph K. Golf tool. 290,985, 7-21-87, Cl. D21-234.000.
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Di Maria, Sergio: *See—*
Di Maria, Sonia; Di Maria, Sandro; and Di Maria, Sergio. 292,560, Cl. D11-42.000.
Di Maria, Sonia; Di Maria, Sandro; and Di Maria, Sergio. Earring. 292,560, 11-3-87, Cl. D11-42.000.
DiMatteo, Antonio: *See—*
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D'Innocente, Ralph; and Drasin, Larry, to Jacuzzi Inc. Whirlpool bath tub. 288,239, 2-10-87, Cl. D24-38.000.
Dion, Erma O. Stuffed doll toy. 287,743, 1-13-87, Cl. D21-166.000.
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DiPasquale, Dominic T. Finger ring. 292,073, 9-29-87, Cl. D11-30.000.
DiPietro, David J. Taco shell. 292,940, 12-1-87, Cl. D1-122.000.
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Disanza, Paul. Leaf and cuttings gatherer. 291,133, 7-28-87, Cl. D34-1.000.
Discko, John J., Jr. Dental tray. 287,760, 1-13-87, Cl. D24-10.000.
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Wichman, William J., 290,028, Cl. D21-59.000.
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Wichman, William J., 290,145, Cl. D21-59.000.
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Ditto, Bobby L., to Ditto Manufacturing, Inc. Artificial fishing lure. 289,789, 5-12-87, Cl. D22-127.000.
Ditto, Donald R. Sculptured rose or similar article. 289,021, 3-31-87, Cl. D11-139.000.
Ditto, Donald R. Plaque or the like. 292,278, 10-13-87, Cl. D11-139.000.
Ditto, Donald R. Plaque or the like. 292,279, 10-13-87, Cl. D11-139.000.
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Dixon, Robert. Spider machine toy. 291,711, 9-1-87, Cl. D21-185.000.
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Dockery, Otis L. Doll. 290,863, 7-14-87, Cl. D21-177.000.
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Doerner, Frank. Chair control release and locking cam for tiltable chairs. 288,629, 3-10-87, Cl. D6-500.000.
Doerner, Frank. Chair control release and locking cam for tiltable chairs. 289,590, 5-5-87, Cl. D6-500.000.
Doerner, Frank. Chair control. 290,073, 6-2-87, Cl. D6-500.000.
Doerner, Frank. Chair control. 292,459, 10-27-87, Cl. D6-500.000.
Doezema, William, to Baker, Knapp & Tubbs, Inc. Table. 290,565, 6-30-87, Cl. D6-484.000.
Doezema, William, to Baker, Knapp & Tubbs, Inc. Console or the like. 292,458, 10-27-87, Cl. D6-484.000.
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Doi, Tetsuyuki: *See—*
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Doman, Donald W., to Snap-on Tools Corporation. Impact wrench. 288,770, 3-17-87, Cl. D8-68.000.
Doman, Donald W., to Snap-on Tools Corporation. Air ratchet. 289,135, 4-7-87, Cl. D8-61.000.
Doman, Donald W., to Snap-on Tools Corporation. Pneumatic sander. 289,136, 4-7-87, Cl. D8-62.000.
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Downing, Verlon D.; Pulskamp, Steven R.; and Ropp, William H., to Huffy Corporation. Pedal for a bicycle. 291,293, 8-11-87, Cl. D12-125.000.
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Dragos, Raymond, to Masco Corporation. Faucet handle. 290,494, 6-23-87, Cl. D23-28.000.
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Wilson, Thomas C.; and Carter, James S., 290,124, Cl. D14-105.000.
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Duffin, Thorvald E., II, to TDA, Inc. Personal computer keyboard template for displaying operating instructions for software program. 291,699, 9-1-87, Cl. D14-114.000.
Duffin, Thorvald E., II, to TDA, Inc. Personal computer keyboard template for displaying operating instructions for software program. 291,992, 9-22-87, Cl. D14-114.000.
Duffin, Thorvald E., II, to TDA, Inc. Personal computer keyboard template for displaying operating instructions for software program. 291,993, 9-22-87, Cl. D14-114.000.
Duffin, Thorvald E., II, to TDA, Inc. Personal computer keyboard template for displaying operating instructions for software program. 291,994, 9-22-87, Cl. D14-114.000.
Duffin, Thorvald E., II, to TDA, Inc. Personal computer keyboard template for displaying operating instructions for software program. 291,995, 9-22-87, Cl. D14-114.000.
Duffin, Thorvald E., II, to TDA, Inc. Personal computer keyboard template for displaying operating instructions for software program. 291,996, 9-22-87, Cl. D14-114.000.
Duffin, Thorvald E., II, to TDA, Inc. Personal computer keyboard template for displaying operating instructions for software program. 291,997, 9-22-87, Cl. D14-114.000.
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Dunn, Richard A., Jr. Combined holding rack and game pieces therefor. 288,699, 3-10-87, Cl. D21-54.000.
Dunn, Richard A., Jr. Combined holding rack and game pieces therefor. 289,906, 5-19-87, Cl. D21-54.000.
Dunnagan, Elena M. Bathing suit or the like. 293,156, 12-15-87, Cl. D2-41.000.
Dunnington, Bennett F. Hand rest. 288,158, 2-10-87, Cl. D6-491.000.
Dunwell, Kevin T. Table. 291,394, 8-18-87, Cl. D6-487.000.
Durand, Jean-Jacques. Tumbler or similar article. 288,647, 3-10-87, Cl. D7-14.000.
Durand, Jean-Jacques. Wine glass or similar article. 289,000, 3-31-87, Cl. D7-13.000.
Durand, Jean-Jacques. Goblet or similar article. 289,125, 4-7-87, Cl. D7-11.000.
Durand, Jean-Jacques. Footed ice tea glass or similar article. 289,718, 5-12-87, Cl. D7-11.000.
Durand, Jean-Jacques. Perfume bottle or similar article. 290,230, 6-9-87, Cl. D9-384.000.
Durand, Jean-Jacques. Perfume bottle or similar article. 290,231, 6-9-87, Cl. D9-384.000.
Durand, Jean-Jacques. Salad bowl or similar article. 290,327, 6-16-87, Cl. D7-28.000.
Durand, Jean-Jacques. Perfume bottle or similar article. 290,341, 6-16-87, Cl. D9-384.000.
Durand, Jean-Jacques. Perfume bottle or similar article. 290,443, 6-23-87, Cl. D9-393.000.
Durand, Jean-Jacques. Multi-purpose bowl or similar article. 291,043, 7-28-87, Cl. D7-28.000.
Durand, Jean-Jacques. Paper weight or similar article. 291,453, 8-18-87, Cl. D19-96.000.
Durand, Jean-Jacques. Condiment shaker or similar article. 291,759, 9-8-87, Cl. D7-54.000.
Durand, Jean-Jacques. Silk screen stencil decoration for a plate or similar article. 291,955, 9-22-87, Cl. D7-39.000.
Durham, Bobbie. Football bed covering. 288,268, 2-17-87, Cl. D6-603.000.
Durkee, Robert, to BSL Corporation. Flexible strip for an environmental curtain. 288,999, 3-31-87, Cl. D6-580.000.

Durland & Associates, Ltd.: *See—*
Dewart, William E.; and Lovitz, David S., 292,761, Cl. D6-445.000.
Duro-Med Industries Inc.: *See—*
Mann, Donald L.; and Schmier, Albert S., 290,035, Cl. D23-71.000.
Duval, Ernest H.; Parisi, Pamela J.; Aldrich, Thomas B., III; and Torongo, Albert H., to Gillette Company, The. Deodorant applicator. 289,857, 5-19-87, Cl. D9-399.000.
Duval, Ernest H.; Parisi, Pamela J.; Aldrich, Thomas B., III; and Torongo, Albert H., to Gillette Company, The. Deodorant applicator. 289,858, 5-19-87, Cl. D9-399.000.
Dweck, Jack; and Dweck, Mark, to Arrow Trading Company, Inc. Front panel for a stereo. 290,115, 6-2-87, Cl. D14-10.000.
Dweck, Mark: *See—*
Dweck, Jack; and Dweck, Mark, 290,115, Cl. D14-10.000.
Dwyer Instruments, Inc.: *See—*
Kobos, Duane M., 287,703, Cl. D10-102.000.
Dwyer, John J.: *See—*
Rutkowski, Richard G.; Dwyer, John J.; Weisz, Sandor. F.; and Doeberl, Terrence M., 290,252, Cl. D14-6.000.
Dyble, Stephanie: *See—*
Holznecht, Richard T.; Dyble, Stephanie; and Stamm, Edward A., 290,265, Cl. D19-47.000.
Dyer, Wayne. Balance toy. 292,808, 11-17-87, Cl. D21-102.000.
Dynacast International Limited: *See—*
Bullen, Stephen R.; Dunn, Paul M.; and Phillips, Martin A., 287,818, Cl. D8-385.000.
Bullen, Stephen R.; Dunn, Paul M.; and Phillips, Martin A., 287,819, Cl. D8-385.000.
Bullen, Stephen R.; Dunn, Paul M.; and Phillips, Martin A., 287,820, Cl. D8-385.000.
Dynamic Classics, Ltd.: *See—*
Cooper, Marvin, 288,995, Cl. D6-462.000.
Cooper, Marvin, 291,340, Cl. D21-195.000.
Dynamo Corporation: *See—*
Rickett, William G., 290,624, Cl. D21-51.000.
Dynasty Industries, Inc.: *See—*
Wadleigh, Edward R., 288,956, Cl. D23-72.000.
Dyson, Stephen: *See—*
Miles, Nancy J.; and Dyson, Stephen, 289,824, Cl. D3-40.000.
E & B Giftware, Inc.: *See—*
Hollinger, Fred; and Ross, Paul, 288,035, Cl. D6-324.000.
E. Hofmann Plastics Canada Inc.: *See—*
Freiler, Wolfgang H., 289,455, Cl. D32-53.000.
Eads, Harold O.; and Planthaber, Rudolph F., to O. Ames Co. Grain scoop. 291,959, 9-22-87, Cl. D8-10.000.
Earl, Norman M., to Bird Chef Co., Inc., The. Combined adaptor and dispenser for bird feed container. 289,451, 4-21-87, Cl. D30-13.000.
Earnhardt, Robert S.: *See—*
Blakely, Raymond P.; Earnhardt, Robert S.; and Meisner, Edward H., 289,742, Cl. D10-72.000.
Easley, James O.: *See—*
Jones, Robert D.; and Easley, James O., 288,735, Cl. D30-9.000.
Easterling, Teddy G. Videotape splicing and repair kit. 289,856, 5-19-87, Cl. D9-345.000.
Eastern Company, The: *See—*
Weinerman, Lee S.; and Rachocki, Michael J., 292,482, Cl. D8-302.000.
Eastman Kodak Company: *See—*
Alligood, John H.; and Spires, James M., 293,097, Cl. D13-8.000.
Fricke, W. Patrick; and Harrison, Larry D., 293,327, Cl. D16-32.000.
Harrison, Larry D., 292,408, Cl. D16-30.000.
Harrison, Larry D., 292,409, Cl. D16-30.000.
Lavine, Monte D., 291,205, Cl. D16-14.000.
Leonard, Bruce A., 293,326, Cl. D16-6.000.
Eaton, Rodney I.: *See—*
Clifford, James W.; and Eaton, Rodney I., 291,891, Cl. D16-14.000.
Eau de Cologne- & Parfuemerie-Fabrik: *See—*
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Schmidt, Peter, 292,271, Cl. D9-377.000.
Schmidt, Peter, 292,272, Cl. D9-384.000.
Schmidt, Peter, 292,273, Cl. D9-384.000.
Ebata, Yoshikazu: *See—*
Kuroki, Nobufusa; and Ebata, Yoshikazu, 288,207, Cl. D15-70.000.
Ebbo, Daniel: *See—*
Belaiche, Serge; and Ebbo, Daniel, 290,440, Cl. D8-305.000.
Belaiche, Serge; and Ebbo, Daniel, 290,577, Cl. D8-305.000.
Belaiche, Serge; and Ebbo, Daniel, 290,578, Cl. D8-308.000.
Belaiche, Serge, and Ebbo, Daniel, 292,730, Cl. D23-250.000.
Eberle, Gunter, to Andreas Hettich, Firma. Centrifuge. 290,653, 6-30-87, Cl. D24-22.000.
Eberle, Gunter, to Andreas Hettich, Firma. Centrifuge. 290,749, 7-7-87, Cl. D24-22.000.
Ebisu Co., Ltd.: *See—*
Inui, Masayoshi, 291,612, Cl. D32-53.000.
Ebnoether, Guido, to LUWA AG. Gas filter. 288,476, 2-24-87, Cl. D23-149.000.
Ebsco Industries, Inc.: *See—*
Gowing, James R., 288,466, Cl. D22-28.000.
Eccardt, Curtis J.; and Brundage, Richard B., to Emerson Electric Co. Scroll saw. 290,369, 6-16-87, Cl. D15-133.000.
Echols, Joseph G., Jr.; and Echols, Joseph G., Sr. Electronic dictionary. 289,527, 4-28-87, Cl. D18-7.000.
Echols, Joseph G., Sr.: *See—*
Echols, Joseph G., Jr.; and Echols, Joseph G., Sr., 289,527, Cl. D18-7.000.
Eckert, Ross J.: *See—*
Krotzer, Robert D.; Eckert, Ross J.; Commisso, Domenico; Ordal, Douglas C.; and Pawlik, Peter S., 291,599, Cl. D25-2.000.
Eckman, Richard E., to Dresser Industries, Inc. Power tool reaction brace. 290,220, 6-9-87, Cl. D8-71.000.
Economics Laboratory, Inc.: *See—*
McDermott, Peter B.; and Syrek, Gerald M., 288,954, Cl. D23-34.000.
Eddings, John W. Watch case. 293,084, 12-8-87, Cl. D10-34.000.
Eddy, Loren K. Finger ring with beverage can-opening hook. 292,499, 10-27-87, Cl. D11-2.000.
Edstrom, Richard C.: *See—*
Tarasevich, Dennis A.; Edstrom, Richard C.; Hirst, Richard N.; Pressler, David O.; and Myers, Herbert M., 288,531, Cl. D9-376.000.
Edwards, Douglas F., to J. B. Foote Foundry Co., The. Transaxle. 292,804, 11-17-87, Cl. D15-149.000.
Edwards, Linda; and Kariotakis, Frances, to American Greetings Corporation. Toy figure. 288,578, 3-3-87, Cl. D21-148.000.
Edwards, Peter; Steinhilber, Budd; and Gilliam, Ken, to Harmony Foods, Inc. Combination food container and scoop. 293,289, 12-22-87, Cl. D7-79.000.
Edwards, Peter; Steinhilber, Budd; and Gilliam, Ken, to Harmony Foods, Inc. Combination food container and scoop. 293,407, 12-29-87, Cl. D7-79.000.
Edwards, Robert B.: *See—*
Andersen, Erik; Edwards, Robert B.; and Quinn, David G., 288,961, Cl. D24-51.000.
Edwards, Stanley P.: *See—*
Germond, Lois J.; and Edwards, Stanley P., 288,941, Cl. D21-18.000.
Edwards, William H. Locking nut assembly for a guitar. 290,017, 5-26-87, Cl. D17-20.000.
Eerdmans, Donald. Boat. 292,202, 10-6-87, Cl. D12-302.000.
Effler, Timothy A.; and Petrosky, Lori A., to American Greetings Corporation. Toy cart. 288,703, 3-10-87, Cl. D21-134.000.
EGA Limited: *See—*
Bramwell, David W., 288,802, Cl. D13-13.000.
Bramwell, David W., 289,633, Cl. D13-13.000.
Bramwell, David W., 289,634, Cl. D13-13.000.
Bramwell, David W., 289,635, Cl. D13-13.000.
Bramwell, David W., 292,396, Cl. D13-24.000.
Layton, David E., 293,098, Cl. D13-13.000.
Egan, Daniel C.: *See—*
Mills, Anthony M.; and Egan, Daniel C., 288,549, Cl. D12-151.000.
Egashira, Teruaki: *See—*
Takada, Kazuo; Egashira, Teruaki; Ikegami, Yoichi; Konishi, Kazuhiro; and Suzuki, Tadao, 291,765, Cl. D7-309.000.
Egli, Christoph, to Telefonaktiebolaget L.M. Ericsson. Typewriter. 291,092, 7-28-87, Cl. D18-1.000.
Egly, Robert A. Magnetic disk case. 291,387, 8-18-87, Cl. D3-35.000.
Egly, Robert A. Case for magnetic media, programs and the like. 293,335, 12-22-87, Cl. D19-27.000.
Eguchi, Yoshiaki; and Amemiya, Masatomo, to Janome Sewing Machine Co. Ltd. Sewing machine. 289,298, 4-14-87, Cl. D15-69.000.
Eguchi, Yoshiaki, to Janome Sewing Machine Co., Ltd. Sewing machine. 290,368, 6-16-87, Cl. D15-69.000.
Ehco, Inc.: *See—*
Erickson, Fredrick J., 290,923, Cl. D7-337.000.
Ehrenfried, Katherine M. Doll head. 291,105, 7-28-87, Cl. D21-190.000.
Eibensteiner, Ronald E.: *See—*
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Knudson, Mark B.; Sembrowich, Walter L.; Carlson, Scott W.; Little, Richard L.; Eibensteiner, Ronald E.; and Baker, Richard W., 292,229, Cl. D24-21.000.
Eicher, James P.; and Matsubara, K. Norman. Liquid measuring gauge for cooking utensil. 289,960, 5-26-87, Cl. D7-50.000.
Einhorn, Henry L. Inflatable club. 290,728, 7-7-87, Cl. D21-211.000.
Einhorn, Henry L. Inflatable club. 290,729, 7-7-87, Cl. D21-211.000.
Einsel, Kenneth D. Logs rack. 289,080, 3-31-87, Cl. D23-138.500.
Eisenhauer, David P., to NCR Corporation. Alignment template or similar article. 291,287, 8-11-87, Cl. D10-64.000.
Eisenhauer, David P., to NCR Corporation. Alignment template or similar article. 292,495, 10-27-87, Cl. D10-64.000.
Ekco Housewares, Inc.: *See—*
Kelly, Roger L., 287,563, Cl. D7-395.000.
Ekco Products, Inc.: *See—*
Alexander, Frederick D., 287,809, Cl. D7-359.000.
Alexander, Frederick D., 288,055, Cl. D7-354.000.
Holzkopf, Michael E.; and Hayes, Thomas J., 290,232, Cl. D8-424.000.
Tabler, Charles P., 290,778, Cl. D34-40.000.
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Read, Clifford D.; and Eldershaw, Michael K., 291,692, Cl. D14-60.000.
Eldon Industries, Inc.: *See—*
Evenson, Mel, 288,214, Cl. D19-99.000.

Evenson, Mel, 293,338, Cl. D19-67.000.
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Pagani, David A., 290,927, Cl. D8-30.000.

Eldred, Charles R.; Lowe, Robert E.; and Walker, Elizabeth L., to General Foods Corporation. Cereal piece. 288,380, 2-24-87, Cl. D1-128.000.

Eldred, Charles R.; Lowe, Robert E.; and Walker, Elizabeth L., to General Foods Corporation. Cereal piece. 288,381, 2-24-87, Cl. D1-128.000.

Elec & Eltek Company Limited: *See*—
Hoi, Winter W. Y., 287,851, Cl. D14-53.000.

Electra Blade Corporation: *See*—
George, Jimmie; and Tyson, Judy, 290,532, Cl. D28-49.000.

Electrix, Inc.: *See*—
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Electron Corporation (AUST.) Pty. Ltd.: *See*—
Koob, Gunter H., 289,754, Cl. D14-92.000.
Koob, Gunter H., 289,758, Cl. D14-92.000.
Koob, Gunter H., 289,759, Cl. D14-92.000.

Electronic Publishing Systems, Inc.: *See*—
Trezise, Richard D.; and Kittrell, Wiley A., 290,119, Cl. D14-76.000.

Elesa S.p.A.: *See*—
Bertani, Alberto, 289,370, Cl. D8-309.000.
Bertani, Alberto, 292,072, Cl. D10-53.000.
Decursu, Giorgio, 291,053, Cl. D8-310.000.

Eletro-Acustica S.A.: *See*—
Bittencourt, Helio T., 289,041, Cl. D14-30.000.

Elgin, Robin D. Dental X-ray film cushion pad. 289,681, 5-5-87, Cl. D24-16.000.

El-Hag, Nabil: *See*—
Finsilver, Charles E.; Taylor, Terry L.; Worm, Roger E.; and El-Hag, Nabil, 293,292, Cl. D7-16.000.

Eli Lilly and Company: *See*—
Rosen, Marc A., 290,229, Cl. D9-377.000.

Eliasson, Erik, to Tage & Soner Byggnadsfirma AB. Label holder attachment for the back of a binder. 292,990, 12-1-87, Cl. D19-32.000.

Elie, Francois, to Horlogerie Photographique Francais. Handset telephone. 293,238, 12-15-87, Cl. D14-64.000.

Elkerbout, Marten F., to U.S. Philips Corporation. Solarium lamp. 291,598, 8-25-87, Cl. D24-68.000.

Elkerbout, Marten F., to U.S. Philips Corporation. Physiological unit for monitoring body functions. 293,467, 12-29-87, Cl. D24-17.000.

Ellingen, David R.: *See*—
Bakula, Mark S.; Doman, Donald W.; Ellingen, David R.; Hopp, Gene P.; Malek, Keith R.; Michalski, Steven E.; Pacetti, Larry D.; Pagac, William T.; Wente, Steven R.; and Zuzinec, Raymond R., Sr., 292,893, Cl. D10-112.000.

Elliot, Lloyd: *See*—
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Elliott, James J. Garden hose holder. 290,809, 7-14-87, Cl. D8-356.000.

Ellis, Vernon M.: *See*—
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Ellson, Bart T.: *See*—
Lovett, Robert H.; Kakuk, Jay J.; and Ellson, Bart T., 290,835, Cl. D13-30.000.

Elmer, William A. Vehicle top sign holder. 290,620, 6-30-87, Cl. D20-10.000.

Eltech Systems Corporation: *See*—
Miller, Thomas M.; and Schraff, Raymond J., 291,118, Cl. D23-82.000.

Embertson, Randy: *See*—
O'Neil, William J., Jr.; Sims, Daniel J.; and Embertson, Randy, 291,782, Cl. D9-448.000.

Embra, Maurice C. Plywood carrier. 290,926, 7-21-87, Cl. D8-14.000.

Embry, Janie P. Doll. 291,221, 8-4-87, Cl. D21-159.000.

Emco Wheaton, Inc.: *See*—
Bower, Allen M.; Butterfield, Eric J.; and Roberts, Robert D., 293,462, Cl. D23-226.000.

Emerson Electric Co.: *See*—
Babb, Larry F., 289,005, Cl. D8-72.000.
Eccardt, Curtis J.; and Brundage, Richard B., 290,369, Cl. D15-133.000.

Emmons, Jeffery E. Curling iron retainer. 293,488, 12-29-87, Cl. D28-38.000.

Emms, Norman R.; and Bryant, Peter D., to Hestair Kiddicraft Limited. Simulative toy rattle. 289,185, 4-7-87, Cl. D21-65.000.

Emms, Norman R., to Hestair Kiddicraft Limited. Child's toy. 293,004, 12-1-87, Cl. D21-158.000.

Enu S.p.A.: *See*—
Biscarini, Aldo, 288,870, Cl. D6-368.000.
Biscarini, Luigi, 291,390, Cl. D6-361.000.

Enav, Abraham; and Rosenthal, Gordon, to Fairchild Industries Inc. Aircraft. 291,554, 8-25-87, Cl. D12-332.000.

Endelson, Robert A. Ultra-thin cigarette lighter. 291,493, 8-18-87, Cl. D27-36.000.

Enderlein, Dieter: *See*—
Schiavo, Fred; Enderlein, Dieter; and Zappa, Zeljko, 287,628, Cl. D24-15.000.

Endo, Aiko; and Fushimoto, Hideo, to Canon Kabushiki Kaisha. Desktop electronic calculator with printer. 289,413, 4-21-87, Cl. D18-7.000.

Endo, Aiko, and Fushimoto, Hideo, to Canon Kabushiki Kaisha. Desktop electronic calculator. 289,417, 4-21-87, Cl. D18-7.000.

Endo, Akinori: *See*—
Serikawa, Shiro; Endo, Akinori; and Maruyama, Koji, 290,611, Cl. D14-111.000.

Endo, Hiroshi: *See*—
Takeuchi, Akitaka; Abe, Takeshi; Endo, Hiroshi; Shimizu, Hideyasu; and Tsunematsu, Shinichiro, 288,444, Cl. D14-94.000.

Enduro Binders, Inc.: *See*—
Maune, Michael E., 290,376, Cl. D19-32.000.

Engdahl, Lennart: *See*—
Andersson, Roger; Engdahl, Lennart; and Klasson, Jan, 289,524, Cl. D15-17.000.

Engel, Hartmut S., to Brillantleuchten AG. Floor lamp. 290,520, 6-23-87, Cl. D26-62.000.

Engel, Hartmut S., to Brillantleuchten AG. Floor lamp. 290,521, 6-23-87, Cl. D26-62.000.

Engel, Herman J. Adapter base for fluorescent lamp. 291,556, 8-25-87, Cl. D13-25.000.

Engel, Herman J. Adapter base for fluorescent lamp. 291,557, 8-25-87, Cl. D13-25.000.

Engineered Design Inc.: *See*—
Moscovitch, Jerry N., 288,206, Cl. D15-30.000.

Engleman, Thomas W. Paint brush having a manually operated handle pump connected by tubing to a paint container. 292,649, 11-10-87, Cl. D4-114.000.

English, Loren: *See*—
Williams, David E.; Parham, Michael; and English, Loren, 292,423, Cl. D21-38.000.

Engstrand, Sture, to Aktiebolaget Gustavsberg. Display stand. 288,153, 2-10-87, Cl. D6-460.000.

Engum, Kenneth L., to Skeeter Trike, Inc. Ornamental design for a tricycle. 290,451, 6-23-87, Cl. D12-112.000.

Enock, David M. Ring or similar article. 292,559, 11-3-87, Cl. D11-27.000.

Enomoto, Haruyuki; and Shimazaki, Naokazu, to Sony Corporation. Viewfinder for video camera or the like. 288,684, 3-10-87, Cl. D14-78.000.

Enomoto, Haruyuki; and Shimazaki, Naokazu, to Sony Corporation. Video camera. 289,290, 4-14-87, Cl. D14-78.000.

Ensar Corporation: *See*—
Sarnoff, Norton; and Fletcher, Carl R., 288,895, Cl. D8-18.000.

Entertainment Technology: *See*—
Williams, David E.; Parham, Michael; and English, Loren, 292,423, Cl. D21-38.000.

Enthoven, Axel, to American Standard Inc. Faucet. 292,430, 10-20-87, Cl. D23-241.000.

Envall, Bjorn E. A.; and Giugiaro, Giorgetto, to Saab-Scania Aktiebolag. Aerodynamic spoiler for attachment to an automobile. 287,713, 1-13-87, Cl. D12-181.000.

Envall, Bjorn E. A.; and Giugiaro, Giorgetto, to Saab-Scania Aktiebolag. Left front fender for an automobile. 288,195, 2-10-87, Cl. D12-184.000.

Envall, Bjorn E. A.; and Ohlsson, Dick O., to Saab-Scania Aktiebolag. Exterior door panel for an automobile. 288,303, 2-17-87, Cl. D12-196.000.

Envall, Bjorn E. A., to Saab-Scania Aktiebolag. Wheel cover. 288,312, 2-17-87, Cl. D12-210.000.

Envall, Bjorn E. A.; and Giugiaro, Giorgetto, to Saab-Scania Aktiebolag. Rear bumper. 288,428, 2-24-87, Cl. D12-169.000.

Envall, Bjorn E. A.; and Giugiaro, Giorgetto, to Saab-Scania Aktiebolag. Front bumper. 288,551, 3-3-87, Cl. D12-169.000.

Envall, Bjorn E. A., to Saab-Scania Aktiebolag. Protecting shield for the rear suspension of an automobile. 288,798, 3-17-87, Cl. D12-190.000.

Envall, Bjorn E. A.; and Jonsson, Ralph E., to Saab-Scania Aktiebolag. Automobile steering wheel. 289,029, 3-31-87, Cl. D12-176.000.

Envall, Bjorn E. A.; and Giugiaro, Giorgetto, to Saab-Scania Aktiebolag. Automobile. 289,896, 5-19-87, Cl. D12-91.000.

Envall, Bjorn E. A.; and Ohlsson, Dick O., to Saab-Scania Aktiebolag. Lower inner part of a door panel of an automobile. 291,191, 8-4-87, Cl. D12-190.000.

Envall, Bjorn E. A.; and Ohlsson, Dick O., to Saab-Scania Aktiebolag. Rear part of a sill beam to an automobile. 291,192, 8-4-87, Cl. D12-190.000.

Envall, Bjorn E. A., to Saab-Scania Aktiebolag. Wheel. 292,691, 11-10-87, Cl. D12-206.000.

Envall, Bjorn E. A.; and Wardle, Geoffrey P., to Saab-Scania Aktiebolag. Wheel. 292,905, 11-24-87, Cl. D12-206.000.

Envall, Bjorn E. A.; and Jonsson, Ralph, to Saab-Scania Aktiebolag. Wheel. 288,086, 2-3-87, Cl. D12-209.000.

Environmental Air Control, Inc.: *See*—
Shields, William R., 287,621, Cl. D24-1.100.

Environmental Production Systems Company: *See*—
Ucros, Raphael, 291,634, Cl. D6-491.000.

Enyi, Donatus O. Game board or similar article. 287,982, 1-27-87, Cl. D21-34.000.

Eppenbach, Lawrence C. Tent. 289,787, 5-12-87, Cl. D21-253.000.

Epson Corporation: *See*—
Kurihara, Masaki, 291,442, Cl. D14-106.000.

Epstein, Martin C. Wrench for releasing a vacuum seal on a water pump or the like. 288,893, 3-24-87, Cl. D8-17.000.

Erbach, Arthur R.; and Stephen, James C., to Weber-Stephen Products Co. Wire cooking rack. 291,855, 9-15-87, Cl. D7-404.000.

Erichsen, Bruce E., to R. L. Granger Co. Bird feeder. 289,209, 4-7-87, Cl. D30-15.000.

Erickson, Craig A. Insulated belt carrier for beverage cans. 291,623, 9-1-87, Cl. D2-630.000.

Erickson, Fredrick J., to Ehco, Inc. Barbeque grill. 290,923, 7-21-87, Cl. D7-337.000.
Erickson, Richard D. Disposable shoe shine kit. 291,022, 7-28-87, Cl. D3-30.500.
Eriksson, Nore, to Telefonaktiebolaget LM Ericsson. Fiber optical distribution box. 292,088, 9-29-87, Cl. D13-40.000.
Eriksson, Stefan, to Antenn & Elektronik Ekstam & Eriksson. Antenna or similar article. 289,163, 4-7-87, Cl. D14-86.000.
Eriksson, Stellan, to Indoor Innovation Aktiebolag. Sealing device for surrounding the point of emergence of a pipe from a wall or floor. 287,872, 1-20-87, Cl. D23-40.000.
Erlewine, Mark; and Squier, William. Guitar. 293,331, 12-22-87, Cl. D17-14.000.
Ernst Leitz Wetzlar G.m.b.H: *See*—
Janke, Heinrich; Hengst, Alfred; and Uellenberg, Hans-Kurt. 292,412, Cl. D16-133.000.
Ernst Stadelmann Gesellschaft m.b.H.: *See*—
Kirchner, Balthasar. 290,059, Cl. D34-46.000.
Ervin, David H. Combined goblet and dispenser mold for a frozen beverage. 290,209, 6-9-87, Cl. D7-13.000.
Espinosa, Gil. Sanitary cover set for telephone transcover handset. 291,306, 8-11-87, Cl. D14-59.000.
Espinoza, Raymond P.; and Wooten, Patrick R. Combined multi-section rear view mirror and anti-glare visor. 292,689, 11-10-87, Cl. D12-188.000.
Esselte Pendaflex Corporation: *See*—
Conley, D. Dwain. 291,451, Cl. D18-19.000.
Solomon, Jack. 289,181, Cl. D19-90.000.
Essex Group, Inc.: *See*—
Bishop, Robert M.; and Ditton, Louis G., 291,172, Cl. D7-387.000.
Essex, John D., to Hoover Company, The. Hand held suction cleaner or the like. 290,893, 7-14-87, Cl. D32-18.000.
Esslinger, Hartmut H.; Wingate, Barry; and Gingele, Thomas, to Frogdesign Hartmut Esslinger Inc. Worktable or similar article. 292,765, 11-17-87, Cl. D6-484.000.
Esslinger, Hartmut H.: *See*—
Gemmell, Rob J.; Esslinger, Hartmut H.; and Peart, Stephen, 287,967, Cl. D14-100.000.
Establissements le Simplex: *See*—
Juy, Henri, 288,420, Cl. D12-119.000.
Estee Lauder Inc.: *See*—
Gager, James F., 288,064, Cl. D9-436.000.
Gager, James F., 288,908, Cl. D9-436.000.
Gager, James F., 292,966, Cl. D9-436.000.
Estreich, David, to Pace Collection, Inc. Chair. 288,873, 3-24-87, Cl. D6-380.000.
Etablissements le Simplex: *See*—
Juy, Henri, 290,831, Cl. D12-179.000.
Juy, Henri, 292,503, Cl. D12-124.000.
Etablissements Regnault: *See*—
Regnault, Pierre, 288,335, Cl. D19-49.000.
Regnault, Pierre, 288,450, Cl. D19-49.000.
Etc. Products, Inc.: *See*—
Evans, Millicent, 289,596, Cl. D7-52.000.
Etna Products Co., Inc.: *See*—
Fung, May, 292,625, Cl. D28-58.000.
Eto, Masayoshi; Hidaka, Hiroshi; Mio, Kenzo; and Terauchi, Yukio, to NEC Corporation. Foot cartridge for computer output printers. 289,765, 5-12-87, Cl. D14-114.000.
Eto, Masayoshi; Hidaka, Hiroshi; Mio, Kenzo; and Terauchi, Yukio, to NEC Corporation. Computer output printer. 292,212, 10-6-87, Cl. D14-111.000.
Etudes Techniques et Representations Industrielles ETRI: *See*—
Delmas, Jacques, 291,487, Cl. D23-162.000.
Delmas, Jacques, 291,488, Cl. D23-162.000.
Eugster, Arthur: *See*—
Finesman, Alvin B.; Ahlman, Carson E.; Grossman, Morris G.; and Eugster, Arthur, 291,405, Cl. D8-317.000.
Eurostil, S.r.l.: *See*—
Colnaghi, Mario, 287,865, Cl. D21-111.000.
Evans, Alan C. Combined holder for police nightstick and flashlight. 291,746, 9-8-87, Cl. D3-105.000.
Evans, Clyde R. Combined fisherman's lamp and clipper. 291,227, 8-4-87, Cl. D22-149.000.
Evans, Dale M., to Don Evans, Inc. Diskette file box. 293,279, 12-22-87, Cl. D3-35.000.
Evans, Derek, to Johnson & Johnson Dental Products Company. Orthodontic microbracket with slot extension. 289,329, 4-14-87, Cl. D24-16.000.
Evans, Edwin C. Traffic light. 287,948, 1-27-87, Cl. D10-115.000.
Evans, Frank C.; and Nelson, Merritt J., to Zin-Plas Corporation. Faucet handle. 289,676, 5-5-87, Cl. D23-28.000.
Evans, James A. Mobile traffic signal. 292,681, 11-10-87, Cl. D10-115.000.
Evans, Kirk D. Combined manifold cowling and exhaust piping. 289,766, 5-12-87, Cl. D15-5.000.
Evans, Millicent, to Etc. Products, Inc. Combined table top trash cannister and condiment tray. 289,596, 5-5-87, Cl. D7-52.000.
Evans, Paul R., to Design Institute America, Inc. Table. 287,679, 1-13-87, Cl. D6-483.000.
Evans, Paul R., to Design Institute America, Inc. Table. 287,796, 1-20-87, Cl. D6-483.000.
Evans, Paul R., to Design Institute America, Inc. Table. 287,797, 1-20-87, Cl. D6-483.000.
Evans, Paul R., to Design Institute America, Inc. Combined bed and tables therefor. 288,507, 3-3-87, Cl. D6-384.000.
Evans, R. Gary. Hockey puck holder trophy or the like. 290,447, 6-23-87, Cl. D11-131.000.
Evenson, Mel, to Eldon Industries, Inc. Vertically extending divider for use in a filing system. 288,214, 2-10-87, Cl. D19-79.000.
Evenson, Mel, to Eldon Industries, inc. Stamp dispenser. 293,338, 12-22-87, Cl. D19-67.000.
Evenson, Mel, to Eldon Industries, Inc. Signboard. 293,339, 12-22-87, Cl. D20-10.000.
Everard, Lloyd. Inflatable bathtub. 293,363, 12-22-87, Cl. D23-277.000.
Everard, Lloyd. Inflatable sink. 293,364, 12-22-87, Cl. D23-289.000.
Everett, Lynn E., to Tusco Manufacturing Co. Holder bracket or similar article. 289,256, 4-14-87, Cl. D8-373.000.
Everett, Lynn E., to Tusco Manufacturing Co. Display stand. 291,512, 8-25-87, Cl. D6-465.000.
Everette, Claude J.: *See*—
Brandt, Charles M.; and Everette, Claude J., 292,378, Cl. D9-396.000.
Everhan, Walter, to American Commercial, Incorporated. Dinner plate. 291,856, 9-15-87, Cl. D7-30.000.
Everts, Ramon L., to Ford Motor Company. Station wagon rear bumper. 291,677, 9-1-87, Cl. D12-169.000.
Everts, Ramon L., to Ford Motor Company. Automobile front bumper. 291,678, 9-1-87, Cl. D12-169.000.
Everts, Ramon L., to Ford Motor Company. Automobile rear bumper. 291,679, 9-1-87, Cl. D12-169.000.
Everts, Ramon L., to Ford Motor Company. Automobile valance panel. 291,680, 9-1-87, Cl. D12-190.000.
Everts, Ramon L., to Ford Motor Company. Automobile valance panel. 291,681, 9-1-87, Cl. D12-190.000.
Ewart, Robert M., Jr.: *See*—
Anzelone, Thomas A.; Cotton, Raymond F.; Davis, Myron F.; del Sol, Pedro D.; Ewart, Robert M., Jr.; Goetz, Fred E.; and Lewis, Paul B., 290,360, Cl. D14-100.000.
Ewing, Robert L.; Hughes, James S.; and Bruggeman, Bruce G., to Manville Service Corporation. Industrial floodlight. 287,645, 1-6-87, Cl. D26-63.000.
Ex-Cell Home Fashions, Inc.: *See*—
Angerman, Irving, 290,582, Cl. D9-418.000.
Excellente, Richard. Electric guitar body. 293,333, 12-22-87, Cl. D17-20.000.
Exclestor Fitness Equipment Co.: *See*—
Szymski, Eugene J., and Mraz, Rene, 289,782, Cl. D21-194.000.
Exerpac, Inc.: *See*—
Wilson, Robert M., 288,950, Cl. D21-191.000.
Wilson, Robert M., 289,538, Cl. D21-198.000.
Exin-Iber, S.A.: *See*—
Fernandez, Carlos S., 290,277, Cl. D21-108.000.
Exley, Jyll; and Bouet, Thiebault, to Yves Saint Laurent, Inc. Umbrella handle. 289,460, 4-28-87, Cl. D3-12.000.
Exxon Printing Systems, Inc.: *See*—
Parenteau, Paul G., 289,178, Cl. D18-24.000.
EZ Mail Corporation: *See*—
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EZ Paintr Corporation: *See*—
Moon, Howard R., 292,450, Cl. D4-122.000.
F. F. Seeley Nominees Pty Ltd: *See*—
Butcher, Richard H., 293,022, Cl. D23-354.000.
F.I.R. Rubinetterie S.p.A.: *See*—
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Fabian, Wolfgang, to American Standard Inc. Combined hand shower, adjustable holder and article holder. 291,912, 9-15-87, Cl. D23-35.000.
Fabian, Wolfgang: *See*—
Bergmann, Konrad; and Fabian, Wolfgang, 291,234, Cl. D23-23.000.
Bergmann, Konrad; and Fabian, Wolfgang, 291,235, Cl. D23-23.000.
Fabricas Orion, S.A.: *See*—
Gomez, Jesus, 292,608, Cl. D23-254.000.
Gomez, Jesus, 292,731, Cl. D23-254.000.
Fabrique Ebel, Societe Anonyme: *See*—
Chodat, Jean-Pierre, 290,585, Cl. D10-30.000.
Schoepfer, Eddy, 292,890, Cl. D10-39.000.
Schoepfer, Eddy, 293,302, Cl. D11-3.000.
FACOM "Societe Anonyme": *See*—
Dottori, Arduino; and Ingegnere, Roberto, 291,946, Cl. D3-73.000.
Fahey, William K.; and Picozza, Augusto A., to Dart Industries Inc. Compartmented dish. 291,042, 7-28-87, Cl. D7-27.000.
Fahnstrom, Dale E.: *See*—
Drummond, Archie G., Jr.; and Fahnstrom, Dale E., 290,573, Cl. D7-71.000.
Fahy, Lawrence T. Universal antenna mount. 292,707, 11-10-87, Cl. D14-91.000.
Fails, Earl B., to U. S. Works-86, Inc. Ice cube tray. 292,802, 11-17-87, Cl. D15-90.000.
Fair, Robert A.: *See*—
Fair, Robert W.; and Fair, Robert A., 288,069, Cl. D10-60.000.
Fair, Robert W.; and Fair, Robert A. Security box for a water heater thermostat. 288,069, 2-3-87, Cl. D10-60.000.
Fairbanks, Lyman N., to Custom Shade & Awning Corp. Bracket for shaping curtains and similar articles. 292,370, 10-20-87, Cl. D8-369.000.
Fairchild Industries, Inc.: *See*—
Enav, Abraham; and Rosenthal, Gordon, 291,554, Cl. D12-332.000.
Rosenthal, Gordon, 291,431, Cl. D12-333.000.
Rosenthal, Gordon, 291,555, Cl. D12-334.000.

Fairchild, Larry L., to Universal-Rundle Corporation. Sink sprayer. 290,741, 7-7-87, Cl. D23-35.000.
Fairform Mfg. Co. Ltd.: *See*—
Huen, Hing W., 289,851, Cl. D8-358.000.
Huen, Hing W., 290,497, Cl. D23-35.000.
Fairform Mfg Co.Ltd.: *See*—
Huen, Hing W., 290,551, Cl. D4-102.000.
Falco, Frank J. Blank message holder for use with an imitation flower or the like. 291,545, 8-25-87, Cl. D11-117.000.
Falcone, Dominic. Telephone. 292,799, 11-17-87, Cl. D14-64.000.
Falkenberg, Douglass R.; and Campbell, Jeanne P., to Douglass Manufacturing Company. Weighted cord drop or similar article. 288,765, 3-17-87, Cl. D6-58.000.
Fallgatter, James C.; and Fallgatter, Tarla A. Rolling pin. 291,760, 9-8-87, Cl. D7-99.000.
Fallgatter, Tarla A.: *See*—
Fallgatter, James C., and Fallgatter, Tarla A., 291,760, Cl. D7-99.000.
Falls, Dennis A.: *See*—
Fuhrman, John F.; Shumaker, Paul K.; and Falls, Dennis A., 288,202, Cl. D14-86.000.
Famolare, Leo H., to Wolverine World Wide, Inc. Woman's shoe. 292,240, 10-13-87, Cl. D2-302.000.
Famolare, Leo H., to Wolverine World Wide, Inc. Shoe. 293,385, 12-29-87, Cl. D2-287.000.
Fanciullo, Michael A. Animal water bowl. 289,208, 4-7-87, Cl. D30-13.000.
Faraci, Arthur: *See*—
Kovacs, Eddie; Faraci, Arthur; and Metz, Robert S., Jr., 287,589, Cl. D14-102.000.
Farber, Robert J. Candy. 287,780, 1-20-87, Cl. D1-106.000.
Farber, Webb W. Solar water tank heater. 290,288, 6-9-87, Cl. D23-72.000.
Farhi, Moshe. Mold to be used in the manufacture of concrete ceilings. 291,700, 9-1-87, Cl. D15-136.000.
Farhi, Moshe. Inner surface of a mold to be used in the manufacture of concrete ceilings. 291,701, 9-1-87, Cl. D15-136.000.
Farley, Mahin J. Jewelry rack. 291,641, 9-1-87, Cl. D6-566.000.
Farmer, William. Clamp. 291,963, 9-22-87, Cl. D8-394.000.
Farrand, Rosemary. Toothbrush. 288,628, 3-10-87, Cl. D4-104.000.
Farwell, David S.; Powers, David V.; Maselli, Steven A.; and Krishnamurthy, Jagadisan, to Combustion Engineering, Inc. Front for an instrument panel for a controller. 287,717, 1-13-87, Cl. D13-35.000.
Fasano, Michael; and De Luca, Paul, to Porta Systems Corp. Telephone building entrance terminal. 287,963, 1-27-87, Cl. D13-24.000.
Fasco Industries, Inc.: *See*—
Heon, Norvel J., 289,680, Cl. D23-127.000.
Faulconer, Mark, to U.S.D. Three instrument dive console. 289,384, 4-21-87, Cl. D10-85.000.
Faulconer, Mark, to U.S.D. Corp. Two instrument dive console. 289,505, 4-28-87, Cl. D10-85.000.
Faulkenberry, Eulice E. Fireless ashtray. 288,010, 1-27-87, Cl. D27-8.000.
Faulkner, William G.: *See*—
Lapeyre, James M.; and Faulkner, William G., 291,777, Cl. D8-499.000.
Favaretto, Paolo; and Hayward, James E., to Innovative Metal, Inc.; and Favaretto, Paolo. Table or similar article. 288,880, 3-24-87, Cl. D6-484.000.
Favaretto, Paolo. Chair. 289,707, 5-12-87, Cl. D6-336.000.
Fay, Andreas, to Lever Brothers Company. Toothbrush. 287,790, 1-20-87, Cl. D4-104.000.
Federal Laboratories, Inc.: *See*—
Tunno, Robert; and Fiorini, Marshall E., 289,141, Cl. D8-396.000.
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Urbanski, Sigmund S.; Condon, Richard W.; and Stanuch, Edward S., 291,870, Cl. D10-114.000.
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Fegan, Richard M.: *See*—
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Berfield, Robert C.; Crevling, R. Lent, Jr.; Meland, Ronald F.; and Fegan, Richard M., 290,055, Cl. D32-19.000.
Fehlbaum & Co.: *See*—
Brauning, Egon, 289,236, Cl. D6-366.000.
Feierstein, Barry S.; and Levy, Jon A., to Kwik Ticket Inc. Tagging gun. 291,326, 8-11-87, Cl. D18-19.000.
Fein, Selwyn H. Container for cushions. 292,965, 12-1-87, Cl. D9-418.000.
Feinbloom, Richard E.; Levine, Melvin; Yee, Lung T.; and Leung, Kai, to Designs for Vision, Inc. Optical coupler for an arthoscope or similar article. 287,629, 1-6-87, Cl. D24-17.000.
Feinbloom, Richard E.; Levine, Melvin; and Yee, Lung T., to Designs for Vision, Inc. Combined optical coupler for coupling a television camera to an endoscope and an observation eyepiece therefore. 288,936, 3-24-87, Cl. D16-38.000.
Feinbloom, Richard E.; Levine, Melvin; and Yee, Lung T., to Designs for Vision, Inc. Illumination housing for an operating room microscope. 289,410, 4-21-87, Cl. D16-131.000.
Feinbloom, Richard E.; Yee, Lung T.; and Levine, Melvin, to Designs for Vision, Inc. Anaesthesiologist light source or similar article. 290,047, 5-26-87, Cl. D26-24.000.
Feinbloom, Richard E.; and Yee, Lung T., to Designs for Vision, Inc. Combined beam splitter and optical coupler for connecting a light source to a television camera during surgical procedures. 291,091, 7-28-87, Cl. D16-130.000.
Feinner, David. Combined stationery sheet and envelope. 290,021, 5-26-87, Cl. D19-2.000.
Feist, Karl K. Marine boarding stepladder. 288,719, 3-10-87, Cl. D25-65.000.
Felder, Willie. Zip jacket. 289,941, 5-26-87, Cl. D2-191.000.
Fele, Karl, to Biolabimex AB. Combined evacuated blood sampling tube and sedimentation rate column. 292,827, 11-17-87, Cl. D24-51.000.
Felix, Cristian J.; Goldenberg, Henry R.; and Zod, Mark J., to American Telephone & Telegraph Company; and AT&T Information Systems Inc. Data set. 289,648, 5-5-87, Cl. D14-100.000.
Felix, Cristian J.; and Mak, Steve O., to AT&T Information Systems Inc. Telephone station stand. 289,597, 5-19-87, Cl. D14-60.000.
Fell, Michael J.: *See*—
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Fellmann, Hansruedi, to Autophon AG. Combined handset and stand telephone unit. 291,691, 9-1-87, Cl. D14-58.000.
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Fender, David A. Ventilated athletic cap. 291,381, 8-18-87, Cl. D2-247.000.
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Fenne, Kenneth R., to Pittway Corporation. Automatic thermostat control. 288,068, 2-3-87, Cl. D10-50.000.
Fenne, Kenneth R., to Pittway Corporation. Fire extinguisher valve. 288,252, 2-10-87, Cl. D29-5.000.
Fenne, Kenneth R., to Pittway Corporation. Flashlight. 289,800, 5-12-87, Cl. D26-48.000.
Fenne, Kenneth R., to Pittway Corporation. Timer. 290,814, 7-14-87, Cl. D10-40.000.
Fenne, Kenneth R., to Pittway Corporation. Timer. 290,815, 7-14-87, Cl. D10-40.000.
Fenne, Kenneth R., to Pittway Corporation. Timer. 290,816, 7-14-87, Cl. D10-40.000.
Fenne, Kenneth R., to Pittway Corporation. Flashlight. 291,010, 7-21-87, Cl. D26-46.000.
Fenne, Kenneth R., to Pittway Corporation. Timer. 291,069, 7-28-87, Cl. D10-40.000.
Fenne, Kenneth R., to Pittway Corporation. Night-light. 291,125, 7-28-87, Cl. D26-26.000.
Fenne, Kenneth R., to Pittway Corporation. Automatic thermostat control. 291,974, 9-22-87, Cl. D10-50.000.
Fenne, Kenneth R., to Pittway Corporation. Flashlight. 292,131, 9-29-87, Cl. D26-43.000.
Fennelly, Andrew L., to Secure Care Systems, Inc. Folding sanitary care unit. 292,337, 10-13-87, Cl. D34-24.000.
Fenner, Paul A. Swizzle stick. 291,956, 9-22-87, Cl. D7-42.000.
Fenner, Paul A. Cocktail composer guide. 293,336, 12-22-87, Cl. D19-64.000.
Fenton, Hugh M. R.: *See*—
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Fenton, Ronald B. Picture hanging aid, or similar article. 288,745, 3-17-87, Cl. D6-300.000.
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Ferguson, Kenneth F. Shower flow controller. 287,995, 1-27-87, Cl. D23-19.000.
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Ferm, Morgan; and Andersson, Karl A., to Hammarplast AB. Small turner. 293,063, 12-8-87, Cl. D7-102.000.
Ferm, Morgan; and Andersson, Karl A., to Hammarplast AB. Turner. 293,064, 12-8-87, Cl. D7-102.000.
Ferm, Morgan; and Andersson, Karl A., to Hammarplast AB. Stirring ladle with slits. 293,065, 12-8-87, Cl. D7-104.000.
Ferm, Morgan; and Andersson, Karl A., to Hammarplast AB. Skimmer. 293,066, 12-8-87, Cl. D7-104.000.
Fernandez, Carlos S., to Exin-Iber, S.A. Musical construction piece. 290,277, 6-9-87, Cl. D21-108.000.
Fernandez, David. Tennis racket frame. 289,786, 5-12-87, Cl. D21-212.000.
Fernandez, James. Goose caller. 293,216, 12-15-87, Cl. D10-119.000.
Ferrer Beltran, Jose M. Rotary valve shaft. 289,915, 5-19-87, Cl. D23-19.000.
Ferrero, Pietro, to Ferrero S.p.A. Display stand. 287,912, 1-27-87, Cl. D6-408.000.
Ferrero, Pietro, to Ferrero S.p.A. Packaging container for candy or the like. 293,079, 12-8-87, Cl. D9-318.000.
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Ferrero, Pietro, 293,079, Cl. D9-318.000.

Fetterman, Douglas L., to Kenner Parker Toys Inc. Toy figure. 293,350, 12-22-87, Cl. D21-166.000.

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Livi, Vittorio, 291,393, Cl. D6-482.000.

Fichter, June C., to Polaroid Corporation. Photographic camera back or similar article. 289,055, 3-31-87, Cl. D16-10.000.

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Kester, Melvin E., 290,792, Cl. D6-411.000.
Kester, Melvin E., 292,658, Cl. D6-465.000.
Kester, Melvin E., 292,764, Cl. D6-465.000.

Fields, Ronald A.: *See—*
Downing, Gene L.; and Fields, Ronald A., 291,970, Cl. D9-436.000.

Fincher, Fred T. Combined lie level and attachment strap. 292,679, 11-10-87, Cl. D10-69.000.

Fine, Lewis. Fingernail cleaner brush. 289,345, 4-21-87, Cl. D4-119.000.

Fineman, Jody, to Cookie Makers Inc. Stuffed toy rabbit or similar article. 289,073, 3-31-87, Cl. D21-187.000.

Finesman, Alvin B.; Ahlman, Carson E.; Grossman, Morris G.; and Eugster, Arthur, to Salton, Inc. Handle. 291,405, 8-18-87, Cl. D8-317.000.

Finger, Richard H., to Cityside, Inc. Handbag with toiletries compartment. 289,343, 4-21-87, Cl. D3-48.000.

Fink, Cameron; Schram, Robert W.; and Gentile, Anthony, to Sterling Marking Products Inc. Seal press. 291,703, 9-1-87, Cl. D18-15.000.

Fink, David, to Windsor Industries, Inc. Water resistant portable radio. 288,201, 2-10-87, Cl. D14-68.000.

Fink, Jimmy. Glove. 290,304, 6-16-87, Cl. D2-617.000.

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Finkel Outdoor Products, Inc.: *See—*
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Finkelstein, David. Adjustable table. 292,250, 10-13-87, Cl. D6-430.000.

Finkler, Saul M., to Centennial Jewelers, Inc. Diamond gauge. 288,414, 2-24-87, Cl. D10-64.000.

Finkler, Saul M., to Centennial Jewelers, Inc. Diamond gauge set. 288,415, 2-24-87, Cl. D10-64.000.

Finnamore, David. Game board. 288,698, 3-10-87, Cl. D21-17.000.

Finsilver, Charles E.; Taylor, Terry L.; Worm, Roger E.; and El-Hag, Nabil, to General Foods Corporation. Covered entree plate. 293,292, 12-22-87, Cl. D7-16.000.

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Fiore, Joseph F., Jr.: *See—*
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Fischer, Danial O.; and Cook, Ronald F., to Kimberly-Clark Corporation. Container mounting bracket. 289,140, 4-7-87, Cl. D8-373.000.

Fischer, Roy K., to Validec, Inc. Wireless hand-held communications terminal. 292,706, 11-10-87, Cl. D14-68.000.

Fischione, Eugene A. Syringe holder. 289,435, 4-21-87, Cl. D24-25.000.

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Fisher, Dan F. Filter for dishwasher. 293,016, 12-1-87, Cl. D23-209.000.

Fisher, Jerry A.; Leach, Ronald J.; Patterson, Hugh R.; and Yoko, Gary J., to Ponderosa, Inc. Building structure. 292,828, 11-17-87, Cl. D25-17.000.

Fisher, Kenneth G. Mail box. 291,937, 9 15-87, Cl. D99-30.000.

Fisher, Kim J., to U.S. Philips Corporation. Digital pager. 290,356, 6-16-87, Cl. D14-68.000.

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Fisher, Nikolaus P. Decorative table lamp. 288,725, 3-10-87, Cl. D26-94.000.

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Brickus, Romas A.; Tiffany, Thomas O.; and Keramaty, Hamid, 288,124, Cl. D2+31.000.
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Fitzwater, Edwin, to Regina Co., Inc., The. Pick up nozzle for a carpet cleaner. 289,337, 4-14-87, Cl. D32-32.000.

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Rutter, Sheldon M., 289,184, Cl. D20-17.000.
Rutter, Sheldon M., 289,305, Cl. D20-17.000.

Flaherty, Helen M. Window-mounted candle holder. 289,799, 5-12-87, Cl. D26-9.000.

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Ludvig, Pierre; and Flandin, Gerard, 289,503, Cl. D10-39.000.

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Fleckenstein, Urban. Souvenir gold pan. 289,269, 4-14-87, Cl. D11-157.000.

Fleisher, Mae. Toothbrush. 289,231, 4-14-87, Cl. D4-110.000.

Fleming, William C. Camping light standard. 291,011, 7-21-87, Cl. D26-138.000.

Flemming, Leonard N. Head for an adhesive tape cleaner. 291,637, 9-8-87, Cl. D32-25.000.

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Flies, William P., to Datakey, Inc. Identification tag. 291,897, 9-15-87, Cl. D20-22.000.

Fling, Tyler C. Oil can opener with integral funnel. 288,059, 2-3-87, Cl. D8-34.000.

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Florentino, Gregory. Paint tray cover. 289,456, 4-21-87, Cl. D32-53.100.

Flores, James T. Eyebrow template. 291,607, 8-25-87, Cl. D28-7.000.

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Floyd, Alfred E.; and Ohno, Richard J., to Sargent Manufacturing Company. Electronic door lock. 290,442, 6-23-87, Cl. D8-330.000.

Flury, Armand, to Candino Watch Co. AG. Top casing for a wristwatch plus compass. 288,668, 3-10-87, Cl. D10-31.000.

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Fogarty, A. Edward; Fogarty, Bonnie R.; and Danna, Sabrina M., to Hasbro-Bradley, Inc. Finger puppet or similar article. 291,817, 9-8-87, Cl. D21-153.000.

Fogarty, A. Edward; Fogarty, Bonnie R.; and Danna, Sabrina M., to Hasbro-Bradley, Inc. Finger puppet or similar article. 292,811, 11-17-87, Cl. D21-153.000.

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Fogelman, Sam, to Midwest Marko, Inc. Skirt clip for salad bars and the like. 289,972, 5-26-87, Cl. D8-371.000.

Foley, Henry L.; and Van Camp, Raymond E., to Bunn-O-Matic Corporation. Coffee grinder. 290,332, 6-16-87, Cl. D7-373.000.

Folkerth, Harold E.: *See—*
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Folkmar, Jan: *See—*
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Fomby, Kenneth A., to K & D Plastics Inc. Animal medicine applicator brush. 288,988, 3-31-87, Cl. D4-135.000.

Fomby, Kenneth A., to K & D Plastics, Inc. Bandage roller. 292,665, 11-10-87, Cl. D8-359.000.

onceca, Joseph J. Self supporting window bracket for air conditioners. 288,570, 3-3-87, Cl. D8-381.000.
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ong, Peter; and Henry, Tsang H. T., to Tradebest International Corporation. Illuminable wall switch cover. 290,086, 6-2-87, Cl. D8-353.000.
ong, Peter; and Henry, Tsang H. T., to Tradebest International Corporation. Transmitter or similar article. 291,888, 9-15-87, Cl. D14-95.000.
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onville, Frederick S., to W. R. Grace & Co., Cryovac Div. Container for carrying, transporting, shipping, or installing circuit boards. 291,558, 8-25-87, Cl. D13-40.000.
orbes, Dolores L. Portable pressing board. 291,613, 8-25-87, Cl. D32-66.000.
orbes, Hampton E., Jr., to Westvaco Corporation. Blank for hexagonal tray. 290,689, 7-7-87, Cl. D9-433.000.
orbes, Hampton E., Jr., to Westvaco Corporation. Blank for an octagonal tray. 290,813, 7-14-87, Cl. D9-433.000.
orbes, Stephen B.; and Winch, Marlene A. Bug figure. 289,070, 3-31-87, Cl. D21-155.000.
orbicini, Fulvio. Seat. 291,167, 8-4-87, Cl. D6-381.000.
ord, Jere B., Jr. Finger ring. 292,500, 10-27-87, Cl. D11-26.000.
ord, Max M. Diagnostic slide for microscopes. 290,042, 5-26-87, Cl. D24-29.000.
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Everts, Ramon L., 291,678, Cl. D12-169.000.
Everts, Ramon L., 291,679, Cl. D12-169.000.
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Everts, Ramon L., 291,681, Cl. D12-190.000.
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orester, Karen K. S. Playground rotating swing. 289,541, 4-28-87, Cl. D21-248.000.
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ormenti, Marco. Sofa. 293,283, 12-22-87, Cl. D6-381.000.
orquer, William T.; and Parker, Dolores V. Double-wall insulated tumbler. 289,484, 4-28-87, Cl. D7-15.000.
orrest, William E., to Advanced Evacuation Systems. Rope belay fixture. 288,772, 3-17-87, Cl. D8-356.000.
orsman Armerad Plast AB: *See—*
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ortress Scientific Limited: *See—*
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ortunato, Louis F. Forte grip for bows of stringed instruments or the like. 289,526, 4-28-87, Cl. D17-20.000.
oshee, William R., to Best Lock Corporation. Lever handle or similar article. 289,369, 4-21-87, Cl. D8-308.000.
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oster, Will H. Gas pump nozzle clip and key holder. 288,170, 2-10-87, Cl. D8-349.000.
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Young, Leon; and Klassen, Edward J., 289,772, Cl. D16-44.000.
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Fountain Industries, Inc.: *See—*
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Fox, Charles E.; and Terwilliger, Frank H., to Campbell Soup Company. Food bowl. 288,050, 2-3-87, Cl. D7-20.000.
Fox Pool Corporation: *See—*
Beattie, D. Stuart, 293,039, Cl. D5-61.000.
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Foy, Hunter T., to International Business Machines Corporation. Printer. 293,113, 12-8-87, Cl. D14-111.000.
Framalin, Leonard A. Down discharge heating and cooling unit. 292,228, 10-6-87, Cl. D23-329.000.
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Franyutti, Eugene; and Franyutti, Juan. Boat. 293,429, 12-29-87, Cl. D12-307.000.
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Franyutti, Eugene; and Franyutti, Juan, 293,429, Cl. D12-307.000.
Franzino, Peter L., to Zip Clip, Inc. Spring loaded clip for a hair roller or the like. 293,489, 12-29-87, Cl. D28-40.000.
Frassanito, John R.: *See—*
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Averna, Michele, deceased, 291,180, Cl. D9-405.000.
Fratelli Guzzini S.p.A.: *See—*
Minuti, Furio, 288,767, Cl. D7-83.000.
Minuti, Furio, 291,523, Cl. D7-52.000.
Frazier, Thomas G. Static dissipative touch bar. 289,999, 5-26-87, Cl. D13-99.000.
Frech, Anton; and Riser, Georg, to CWA Constructions SA. Monorail vehicle. 292,971, 12-1-87, Cl. D12-37.000.
Free, Bobbi J. Adjustable slipper. 289,224, 4-14-87, Cl. D2-282.000.
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Freitag, Robert, to National Wire and Stamping, Inc. Electro-surgical blade electrode. 289,084, 3-31-87, Cl. D24-28.000.
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Frick, Donald; and Jackson, George R., to World-Wide Plastics, Inc. Manometer. 292,891, 11-24-87, Cl. D10-101.000.
Fricke, W. Patrick; and Harrison, Larry D., to Eastman Kodak Company. Control panel for a copier or the like. 293,327, 12-22-87, Cl. D16-32.000.
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Friedline, Floyd W. Champagne bottle opener. 292,478, 10-27-87, Cl. D8-33.000.
Friedman, Alan H., to Kanowsky Furniture, Inc. Sofa. 289,832, 5-19-87, Cl. D6-381.000.
Friedman, Harvey W., to Buxton, Inc. Retail sales display stand. 290,202, 6-9-87, Cl. D6-467.000.
Friedman, Israel, to ASCO Manufacturing Limited. Adjustable table. 288,750, 3-17-87, Cl. D6-429.000.

Fries, Hjalmar, to ITT Industries, Inc. Submersible unit for mixing and aeration of industrial effluent or the like. 291,911, 9-15-87, Cl. D23-1.000.

Frigoscandia Contracting AB: *See—*
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Frisch, Moses. Adhesive rodent trap tray. 289,314, 4-14-87, Cl. D22-119.000.

Fritz, Albert E. Set of door edge guards. 289,152, 4-7-87, Cl. D12-190.000.

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Fronske, Robert D. Combination floss holder and key chain fob or similar article. 293,491, 12-29-87, Cl. D28-64.000.

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Frost, David P.; and Sylvester, Gordon E., to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Telephone speaker housing. 290,006, 5-26-87, Cl. D14-60.000.

Fry, Steven A.; and Stafford, Rodney L. Seat for a truck bed. 292,950, 12-1-87, Cl. D6-356.000.

Fudala, Walter N.: *See—*
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Fuhrman, John F., to Maxcom Electronics, Inc. Under dash transceiver. 292,208, 10-6-87, Cl. D14-68.000.

Fuhrman, John F., to Maxcom Electronics, Inc. Hand held transceiver. 292,209, 10-6-87, Cl. D14-68.000.

Fuji Kogyo Co., Ltd.: *See—*
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Ohmura, Ryuichi, 290,155, Cl. D22-142.000.
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Fuji Robin Kabushiki Kaisha: *See—*
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Fujii, Ichiro; Yajima, Hiroshi; and Arita, Toyomi, to Sanyo Electric Co., Ltd. Portable vacuum cleaner. 287,893, 1-20-87, Cl. D32-21.000.

Fujii, Yukihiro; Yasuoka, Junji; Konishi, Kazuhiro; Oishi, Yuichi; and Aruga, Kazuto, to Sanyo Electric Co., Ltd. Computer. 289,763, 5-12-87, Cl. D14-106.000.

Fujimoto, Kazumi, to Sony Corporation. Reel hub for cassette tape. 291,304, 8-11-87, Cl. D14-11.000.

Fujimoto, Kazumi, to Sony Corporation. Reel hub for cassette tape. 291,434, 8-18-87, Cl. D14-11.000.

Fujinuma, Katsumi. Canister-holding housing of emergency mask. 288,731, 3-10-87, Cl. D29-7.000.

Fujisawa Company Ltd.: *See—*
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Fujisawa, Hideo, to Fujisawa Company Ltd. Lighter. 289,801, 5-12-87, Cl. D27-36.000.

Fujisawa, Tadao: *See—*
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Fujita, Mituo, to Kabushiki Kaisha Shinsei Industries. Labeler. 292,006, 9-22-87, Cl. D18-19.000.

Fujita, Toshiharu: *See—*
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Fujitaki, Roy K.; and Fukushima, Hiroshi. Fluorescent light for recessed lighting or the like. 290,756, 7-7-87, Cl. D26-74.000.

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Fuss, Peter S.; Kosner, Jerry J., Jr.; Yndestad, Richard A.; and Pycha, Charles A., to Tellabs, Inc. Equipment cabinet. 288,752, 3-17-87, Cl. D6-446.000.

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Futatsugi, Mitsuyuki; Domon, Yoshihiro; and Yamazaki, Hitoshi, to Mitsubishi Denki Kabushiki Kaisha. Fluorescent lamp. 292,759, 11-10-87, Cl. D26-3.000.

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Gager, James F., to Estee Lauder Inc. Combined bulb and cap for a dropper applicator. 292,966, 12-1-87, Cl. D9-436.000.
Gagliardi, Eugene D., Jr., to Southdown Meat Company, Inc. Meat product. 292,640, 11-10-87, Cl. D1-199.000.
Gagliardi, Eugene D., Jr., to Southdown Meat Company, Inc. Meat product. 293,040, 12-8-87, Cl. D1-125.000.
Gagliardi, Eugene D., Jr., to Southdown Meat Company, Inc. Meat product. 293,041, 12-8-87, Cl. D1-199.000.
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Gallagher, Peter C. J. Reflector fluorescent lamp. 289,928, 5-19-87, Cl. D26-3.000.
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George, Ivan T. Wick bearing lighting device. 293,365, 12-22-87, Cl. D7-416.000.
George, Jimmie; and Tyson, Judy, to Electra Blade Corporation. Oscillating razor. 290,532, 6-23-87, Cl. D28-49.000.
George, Peter; and Paloian, Michael, to Diversified Technology Partners, Ltd.-1982. Protocol analyzer. 293,109, 12-8-87, Cl. D14-100.000.
George, Peter; and Paloian, Michael, to Diversified Technology Partners, Ltd.-1982. Protocol/performance analyzer. 293,110, 12-8-87, Cl. D14-100.000.
George, Peter; and Paloian, Michael, to Diversified Technology Partners, Ltd.-1982. Protocol analyzer. 293,112, 12-8-87, Cl. D14-106.000.
George, William, to Paramount Pictures Corporation. Toy communicator. 287,739, 1-13-87, Cl. D21-111.000.
Georges, Calame G. C.; Zintzmeyer, Jorg; and Lux, Peter G. C. Sign. 291,706, 9-1-87, Cl. D20-42.000.
Gerber Legendary Blades, Inc.: *See*—
Collins, Walter W., 291,626, Cl. D3-102.000.
Collins, Walter W., 291,627, Cl. D3-102.000.
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Chrones, Anthony; and Richardson, Charles C., 293,472, Cl. D24-36.000.
Saltzman, Steven; and Wise, Robert D., 288,868, Cl. D6-338.000.
Wise, Robert D., 289,465, Cl. D6-333.000.
Gerber, William C., to Rubbermaid Incorporated. Window bird feeder. 290,414, 6-16-87, Cl. D30-18.000.
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Gebhard, Albert W.; Au, William G.; and Parker, Robert M., 288,019, Cl. D32-37.000.
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Wright, Helen, 290,063, Cl. D2-642.000.
Germain, Robert A., to USM Corporation. Head for a shovel. 292,061, 9-29-87, Cl. D8-10.000.
Germain, Robert A.; and Portz, William E., to USM Corporation. Head assembly for a rake. 293,196, 12-15-87, Cl. D8-13.000.
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Reisgies, Rolf W.; and Larson, Larry G., 289,862, Cl. D10-94.000.
Germond, Lois J.; and Edwards, Stanley P. Game board. 288,941, 3-24-87, Cl. D21-18.000.
Gerstner, Karl. Type face. 288,100, 2-3-87, Cl. D18-24.000.
Gerver, Howard: *See*—
Gerver, Julie; and Gerver, Howard, 291,844, Cl. D3-42.000.
Gerver, Julie; and Gerver, Howard. Portable footwear tote bag. 291,844, 9-15-87, Cl. D3-42.000.
Ghigini, Daniele: *See*—
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Ghilardi, Giuliano, to Societa' Pneumatici Pirelli S.p.A. Tire for a vehicle wheel. 289,509, 4-28-87, Cl. D12-142.000.
Ghilardi, Giuliano, to Societa' Pneumatici Pirelli S.p.A. Tire for a vehicle wheel. 289,510, 4-28-87, Cl. D12-142.000.
Ghilardi, Giuliano, to Pirelli Coordinamento Pneumatici S.p.A. Tire for a vehicle wheel. 290,243, 6-9-87, Cl. D12-142.000.
Ghilardi, Giuliano, to Pirelli Coordinamento Pneumatici S.p.A. Tire for a vehicle wheel. 290,244, 6-9-87, Cl. D12-146.000.
Ghilardi, Giuliano, to Pirelli Coordinamento Pneumatici S.p.A. Tire for a vehicle wheel. 290,246, 6-9-87, Cl. D12-147.000.
Ghilardi, Giuliano, to Pirelli Coordinamento Pneumatici S.p.A. Tire for a vehicle wheel. 290,247, 6-9-87, Cl. D12-147.000.
Giampapa, Vincent C.; and Peck, George C. Mid-facial zygoma skeletal implant. 290,877, 7-14-87, Cl. D24-33.000.
Giampapa, Vincent C.; and Peck, George C. Mid-facial maxilla skeletal implant. 290,878, 7-14-87, Cl. D24-33.000.
Giampapa, Vincent C.; and Peck, George C. Mid-facial zygomatic arch skeletal implant. 290,879, 7-14-87, Cl. D24-33.000.
Giannoti, Vincent, Jr.; Kline, Jeffrey L.; and Parks, Harville M., to International Business Machines Corporation. Terminal printer cover or the like. 288,929, 3-24-87, Cl. D14-111.000.
Giannuzzi, Louis N. Load-bearing plate. 288,778, 3-17-87, Cl. D8-399.000.
Gibb, Olga B. Sign. 292,996, 12-1-87, Cl. D20-42.000.
Gibbs, Malcolm A., to Twin Star Manufacturing Ltd. Bicycle carrier. 293,427, 12-29-87, Cl. D12-158.000.
Gibson, Robert R.: *See*—
Wood, Jonathan M.; and Gibson, Robert R., 289,265, Cl. D10-46.000.

Wood, Jonathan M.; and Gibson, Robert R., 291,303, Cl. D13-28.000.

Gides, Darrell J.: *See*—
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Gierke, Martin R., to Black & Decker Inc. Rechargeable task light. 287,644, 1-6-87, Cl. D26-60.000.

Gierschick, Walter K., to General Motors Corporation. Radio control unit. 288,682, 3-10-87, Cl. D14-76.000.

Gierschick, Walter K., to General Motors Corporation. Automobile radio receiver. 288,925, 3-24-87, Cl. D14-73.000.

Gierschick, Walter K., to General Motors Corporation. Radio control unit. 288,928, 3-24-87, Cl. D14-76.000.

Gifford, Cathy E.: *See*—
Gifford, Ronald A.; and Gifford, Cathy E., 292,597, Cl. D19-27.000.

Gifford, Ronald A.; and Gifford, Cathy E. Photograph album or the like. 292,597, 11-3-87, Cl. D19-27.000.

Gilbert, N. Carol, to Fireplugs, Inc. Luggage case. 292,446, 10-27-87, Cl. D3-44.000.

Gilberton, Paul, to Thomson-CSF Telephone S.A. Handset telephone. 292,513, 10-27-87, Cl. D14-53.000.

Gilfillan, Rutherford S. Jaw portion of a vascular surgical clamp. 289,683, 5-5-87, Cl. D24-27.000.

Gill-Mentor Limited: *See*—
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Gillam, Paul A.: *See*—
Tucker, Roger; Gillam, Paul A.; Wright, Peter; Whitehouse, Donald; Broadbent, Michael C.; and Moran, Charles, 290,742, Cl. D23-97.000.
Tucker, Roger; Gillam, Paul A.; Wright, Peter; Whitehouse, Donald; Broadbent, Michael C.; and Moran, Charles, 291,913, Cl. D23-97.000.

Gillespie, Lionel D.; Golley, Frank B., IV; Snoke, Phillip J.; and Timmerman, Kenneth D., to Lockheed Corporation. Combined data transmitter/receiver modem and security modem for prevention of unauthorized computer access. 292,926, 11-24-87, Cl. D14-107.000.

Gillette Company, The: *See*—
Castellanet, Vincent F., 288,411, Cl. D9-455.000.
Duval, Ernest H.; Parisi, Pamela J.; Aldrich, Thomas B., III; and Torongo, Albert H., 289,857, Cl. D9-399.000.
Duval, Ernest H.; Parisi, Pamela J.; Aldrich, Thomas B., III; and Torongo, Albert H., 289,858, Cl. D9-399.000.
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Gillotti, Nathan J., to Spinair Corporation. Pollutant collector for cleaning air rising from kerosene heater. 287,873, 1-20-87, Cl. D23-127.000.

Gillquist, Jan I.: *See*—
Odensten, Magnus G.; and Gillquist, Jan I., 289,436, Cl. D24-26.000.

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Beal, Glenn I.; Hauger, Harry L.; and Leer, Rick, 288,229, Cl. D23-43.000.
Beal, Glenn I.; Raupach, Terrence; and Hauger, Harry L., 289,675, Cl. D23-17.000.
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Esslinger, Hartmut H.; Wingate, Barry; and Gingele, Thomas, 292,765, Cl. D6-484.000.

Gingher, Clair H., Jr. Scissors display cabinet. 291,513, 8-25-87, Cl. D6-467.000.

Gingras, Eric G., to Security Imprinter Corporation. Variable data imprinter. 291,812, 9-8-87, Cl. D18-14.000.

Ginsberg, Murray: *See*—
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Giordano, John M. Chair. 292,050, 9-29-87, Cl. D6-380.000.

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Giordano, Joseph J., Jr.; Joffe, Richard M.; Loosme, Oskar; and Sylvester, Gordon E., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Panel for a public video terminal enclosure. 289,284, 4-14-87, Cl. D14-54.000.

Giordano, Joseph J., Jr; Joffe, Richard M.; Loosme, Oskar; and Sylvester, Gordon E., to American Telephone and Telegraph Company, AT&T Information Systems Inc. Panel for a public video terminal enclosure. 289,285, 4-14-87, Cl. D14-54.000.

Giralt, Jules. Decal for a plate or similar article. 289,845, 5-19-87, Cl. D7-39.000.

Giraudet, Bernard. Parasol. 288,490, 2-24-87, Cl. D25-56.000.

Giroflex Entwicklungs AG: *See*—
Ochsner, Koni, 288,387, Cl. D6-366.000.
Ochsner, Koni, 288,388, Cl. D6-366.000.
Ochsner, Koni, 288,389, Cl. D6-366.000.
Ochsner, Koni, 288,390, Cl. D6-379.000.
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Giron, Rudolph J., III. Guitar. 292,217, 10-6-87, Cl. D17-19.000.

Girten, Patrick C.: *See*—
Albertini, Rocco D.; McClellan, Arthur W.; Kokoszka, Stephen A.; and Girten, Patrick C., 290,947, Cl. D12-215.000.

Gisiger, Urs, to Amiet AG. Dual wheel combination lock for luggage or similar article. 288,931, 3-24-87, Cl. D8-330.000.

Gisiger, Urs. Zipper closure lock. 291,652, 9-1-87, Cl. D8-331.000.

Gisiger, Urs, to Amiet AG. Luggage lock. 291,772, 9-8-87, Cl. D8-331.000.

Gisiger, Urs, to Amiet AG. Luggage lock. 291,773, 9-8-87, Cl. D8-331.000.

Gisiger, Urs, to Amiet AG. Luggage lock. 291,774, 9-8-87, Cl. D8-341.000.

Gisiger, Urs, to Amiet AG. Luggage lock. 291,775, 9-8-87, Cl. D8-341.000.

Gisiger, Urs. Lock assembly for zippered luggage. 293,075, 12-8-87, Cl. D8-330.000.

Gist, Marion A. Locking apparatus for sliding windows and doors. 289,849, 5-19-87, Cl. D8-330.000.

Giugiaro, Giorgetto, to Parker Pen (Benelux) BV. Ball point pen. 289,304, 4-14-87, Cl. D19-48.000.

Giugiaro, Giorgetto: *See*—
Envall, Bjorn E. A.; and Giugiaro, Giorgetto, 287,713, Cl. D12-181.000.
Envall, Bjorn E. A.; and Giugiaro, Giorgetto, 288,195, Cl. D12-184.000.
Envall, Bjorn E. A.; and Giugiaro, Giorgetto, 288,428, Cl. D12-169.000.
Envall, Bjorn E. A.; and Giugiaro, Giorgetto, 288,551, Cl. D12-169.000.
Envall, Bjorn E. A.; and Giugiaro, Giorgetto, 289,866, Cl. D12-91.000.

Giurtino, Joel F., to Cordis Corporation. Cardiac pacer analyzer. 293,023, 12-1-87, Cl. D24-17.000.

Gjendemsjo, Peder, to A/S More Tekstilfabrikk. Survival blanket. 288,043, 2-3-87, Cl. D6-603.000.

Gjendemsjo, Peder, to A/S More Tekstilfabrikk. Survival blanket. 290,207, 6-9-87, Cl. D6-603.000.

Gjendemsjo, Peder, to A/S More Tekstilfabrikk. Legging upper and sole periphery therefor. 291,140, 8-4-87, Cl. D2-267.000.

Gladstone, Jay R. Handle for a toilet seat or the like. 288,471, 2-24-87, Cl. D23-71.000.

Glasberg, Myron, to Brynel Incorporated. Hairbrush. 292,850, 11-24-87, Cl. D4-128.000.

Glasdon Limited: *See*—
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Glash, Dean M.; Kruger, Robert J.; Olson, Steven L.; and West, Richard L., to Baxter Travenol Laboratories, Inc. Needle hub. 287,882, 1-20-87, Cl. D24-61.000.

Glash, Dean M.; Kruger, Robert J.; Olson, Steven L.; and West, Richard L., to Baxter Travenol Laboratories, Inc. Needle hub. 288,005, 1-27-87, Cl. D24-61.000.

Glass Bulbs Limited: *See*—
Inns, David H., 289,956, Cl. D7-13.000.
Inns, David H., 290,799, Cl. D7-13.000.

Glassman, Fredrick R. Light fixture. 293,483, 12-29-87, Cl. D26-81.000.

Glaxo Group Limited: *See*—
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Glen and Mary Ella Griffin Trust, The: *See*—
Griffin, Glen C., 290,617, Cl. D19-52.000.

Glennon, Wayne P.; and Taylor, Mack E. Golf club putter head. 291,908, 9-15-87, Cl. D21-217.000.

Glock, Gregory. Knife. 290,283, 6-9-87, Cl. D22-118.000.

Glomar Southeast Asia (PTE) Ltd.: *See*—
Hung, Patrick, 292,743, Cl. D3-30.100.

Gloor, Daniel O. Combined container lid and pour spout. 293,083, 12-8-87, Cl. D9-446.000.

Glynn, Kenneth P. Illuminable belt. 289,227, 4-14-87, Cl. D2-627.000.

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Sahli, Richard M., 292,696, Cl. D13-8.000.

Goberman, Janis, to L'Oreal, S.A. Compact. 290,760, 7-7-87, Cl. D28-83.000.

Goberman, Janis, to L'Oreal, S.A. Cosmetic compact. 290,761, 7-7-87, Cl. D28-83.000.

Goddard, L. A. Freon recovery and purification unit. 290,491, 6-23-87, Cl. D23-1.000.

Godfrey, Grayland. Game board. 290,623, 6-30-87, Cl. D21-25.000.

Goertz, Albrecht; and Davi, Richard A., to Rolodex Corporation. Two hole punch assembly. 289,776, 5-12-87, Cl. D19-72.000.

Goertz, Albrecht, to Puma AG Rudolf Dassler Sport. Tennis ensemble. 290,180, 6-9-87, Cl. D2-36.000.

Goetz, Elmer; and Urion, Kenard E., to Scott Paper Company. Packaging container. 289,262, 4-14-87, Cl. D9-420.000.

Goetz, Fred E.; Harris, James C.; Howell, Steven E.; and Jordan, Willis Y., III, to International Business Machines Corporation. Adjustable display stand. 288,876, 3-24-87, Cl. D6-449.000.

Goetz, Fred E.: *See*—
Anzelone, Thomas A.; Cotton, Raymond F.; Davis, Myron F.; del Sol, Pedro D.; Ewart, Robert M., Jr.; Goetz, Fred E.; and Lewis, Paul B., 290,360, Cl. D14-100.000.
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Gohrig, Gerhard. Combined standard and bracket for wall mounted shelves. 288,900, 3-24-87, Cl. D8-381.000.
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Choi, Jong S., 290,675, Cl. D7-351.000.
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Goldman, Jerome; Goldman, Marvin; and Phillips, Gerald, to Penn Plax Plastics, Inc. Aquarium filter cartridge. 291,825, 9-8-87, Cl. D23-4.000.
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Goldman, Paul R., to Plycraft Inc. Adjustable chair. 289,709, 5-12-87, Cl. D6-367.000.
Goldman, Paul R., to Plycraft Inc. Chair. 292,049, 9-29-87, Cl. D6-379.000.
Goldman, Paul R., to Plycraft Inc. Chair. 292,148, 10-6-87, Cl. D6-379.000.
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Gomez, Jesus, to Fabricas Orion S.A. Faucet handle. 292,731, 11-10-87, Cl. D23-254.000.
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Goode, Bobby L.; and Goode, Malcolm, Jr. Protector for an oxygen bottle. 290,285, 6-9-87, Cl. D23-2.000.
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Goodman, C. Richard; and Sexton, Yancey D., to Daystar, Inc. Microwave down converter. 288,322, 2-17-87, Cl. D14-90.000.
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Goodrich, Gordon W.; and Joss, Michael S., to Bissell Inc. Vacuum cleaner. 292,636, 11-3-87, Cl. D32-22.000.
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Gould, Gertrude R. Food support. 288,273, 2-17-87, Cl. D7-76.000.
Gould, Harold M., to Wards Construction (Overseas) Limited. Bracket component for forming a staircase. 288,720, 3-10-87, Cl. D25-73.000.
Gould, Harold M., to Wards Construction (Overseas) Limited. Bracket component for forming a staircase. 288,855, 3-17-87, Cl. D25-73.000.
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Gozlan, Claude, to Direct Jewellery Inc. Jewellery pendant. 291,666, 9-1-87, Cl. D11-84.000.
Graas, Maurice, to Goodyear Tire & Rubber Company, The. Tire. 288,547, 3-3-87, Cl. D12-147.000.
Graas, Maurice, to Goodyear Tire & Rubber Company, The. Tire. 291,550, 8-25-87, Cl. D12-146.000.
Grae, Bernard A., to Tandy Corp. Lantern. 289,931, 5-19-87, Cl. D26-50.000.
Graham, Charles H., to Tekna-Tool, Inc. Multiple-tip tool. 288,168, 2-10-87, Cl. D8-85.000.
Graham, Charles H. Wastebasket frame. 289,577, 4-28-87, Cl. D34-5.000.
Graham, Rick, to TeleQuest, Inc. Telephone. 292,918, 11-24-87, Cl. D14-53.000.
Graham, Riley C. Smoking pipe bowl with cover and cover lever. 292,621, 11-3-87, Cl. D27-5.000.
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Grambush, Douglas H.; and Moore, Alix A., to Fujitsu Limited. Portable telephone set. 292,922, 11-24-87, Cl. D14-64.000.
Grandsart, Barbara S. Jockey helmet. 291,128, 7-28-87, Cl. D29-15.000.
Grange, Kenneth. Covered vegetable dish. 291,041, 7-28-87, Cl. D7-18.000.
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Greco, Vincent. Latching device for rolling gates. 292,369, 10-20-87, Cl. D8-331.000.
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Gendron, William T.; Rapp, William J.; Green, Frederic L.; Uno, Katsuhiro; and Gaskins, Robert J., 290,409, Cl. D26-67.000.
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Green, Raymond M., Jr., to Victor Equipment Company. Motorized hand torch. 289,967, 5-26-87, Cl. D8-30.000.

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Greene, Cheryl L. Toothbrush. 289,229, 4-14-87, Cl. D4-108.000.
Greene, Lawrence D.; and McCall, Melvin D., to SCM Corporation. Typewriter lid. 290,468, 6-23-87, Cl. D18-12.000.
Greene, Leonard M., to Safe Flight Instrument Corporation. Boat hull. 287,961, 1-27-87, Cl. D12-300.000.
Greene, Robert L. Baby bath. 288,955, 3-24-87, Cl. D23-52.000.
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Gregg, A. Wellborn. Ski mitt. 288,142, 2-10-87, Cl. D2-610.000.
Gregory, Stephen O. Faucet. 291,475, 8-18-87, Cl. D23-23.000.
Gregory, Stephen O. Faucet. 291,476, 8-18-87, Cl. D23-23.000.
Gregory, Stephen O. Spout. 291,478, 8-18-87, Cl. D23-32.000.
Gregory, Ted W., to Arens Controls, Inc. Instrument panel control knob unit. 289,629, 5-5-87, Cl. D12-174.000.
Greig, Kevin M., to Zimmer, Inc. Spinal hook distractor or the like. 291,729, 9-1-87, Cl. D24-27.000.
Gremonprez, Dan E.; and Cesaroni, William C., to Dart Industries Inc. Exercise cycle. 288,706, 3-10-87, Cl. D21-194.000.
Gremonprez, Dan E.; and Cesaroni, William C., to Dart Industries Inc. Exercise treadmill. 289,668, 5-5-87, Cl. D21-192.000.
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Grimsrud, Tone. Lounge seat. 288,993, 3-31-87, Cl. D6-361.000.
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Grubel, Guy, to Converse Inc. Athletic shoe outsole. 290,782, 7-14-87, Cl. D2-320.000.
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Grunhut, Ernest. Candy package. 292,877, 11-24-87, Cl. D9-337.000.
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Guerra-Prats, David A. Television program scheduler stand. 289,779, 5-12-87, Cl. D20-18.000.

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Haas, Ulrich J., to Optyl Eyewear Fashion International Corp. Eyeglass frame. 290,848, 7-14-87, Cl. D16-119.000.

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Hamalainen, Ilkka, to Rakennusvalmiste Oy. Electric heater. 287,751, 1-13-87, Cl. D23-110.000.

Hamami, Demir. Buffet. 293,177, 12-15-87, Cl. D6-446.000.

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Hamatani, George. Holder for immobilizing a belted chain link while riveting same. 289,601, 5-5-87, Cl. D8-72.000.

Hamatani, George. Draft arm retainer for tractor hitches. 289,653, 5-5-87, Cl. D15-28.000.

Hamazaki, Yoshinori, to Kabushiki Kaisha Nagaoka. Record cleaner. 288,973, 3-24-87, Cl. D32-35.000.

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Hampshire, James F., to Rubbermaid Commercial Products Inc. Video display terminal stand. 290,199, 6-9-87, Cl. D6-431.000.

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Hampshire, James F.; and Tomblin, Glen E., to Rubbermaid Commercial Products Inc. Adjustable work surface. 292,352, 10-20-87, Cl. D6-418.000.

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Handler, Milton E.; Sylvan, Richard; Baisch, Herbert; and Peterson, Michael, to Hirsh Company. Storage cabinet. 291,037, 7-28-87, Cl. D6-432.000.

Handler, Milton E.; Sylvan, Richard; and Peterson, Michael, to Hirsh Company. Adjustable support stand. 293,052, 12-8-87, Cl. D6-431.000.

Hanek, Robert D. Nestable portable boat. 291,193, 8-4-87, Cl. D12-300.000.

Haniff, Paul H., to Sage Products, Inc. Needle/syringe collection container. 287,897, 1-20-87, Cl. D34-1.000.

Haniff, Paul H., to Sage Products, Inc. Waste receptacle. 292,037, 9-22-87, Cl. D34-7.000.

Hankinson, John, Jr. Rear deck liner for Corvette automobiles. 289,513, 4-28-87, Cl. D12-155.000.

Hannah, Bruce P.; McClanahan, David D.; and Denny, Lee, to Knoll International, Inc. Work station spine assembly. 293,314, 12-22-87, Cl. D13-40.000.

Hans Grohe GmbH & Co. KG: *See*—
Haug, Andreas; and Schonherr, Thomas, 291,116, Cl. D23-32.000.
Haug, Andreas; and Schonherr, Thomas, 291,232, Cl. D23-23.000.
Haug, Andreas; and Schonherr, Thomas, 291,238, Cl. D23-29.000.
Haug, Andreas; and Schonherr, Thomas, 291,239, Cl. D23-21.000.

Hans Rinninger u. Sohn GmbH u.Co.: *See*—
Rinninger, Hans J., 288,370, Cl. D25-80.000.

Hansen, Donald J.; and Read, Gary G., to General Signal Corporation. Horizontal variable speed turbine pump. 292,978, 12-1-87, Cl. D15-7.000.

Hansen, Erik L., to Rosti A/S. Punch cup. 293,291, 12-22-87, Cl. D7-9.000.

Hansen, Erik L., to Rosti A/S. Punch ladle. 293,408, 12-29-87, Cl. D7-104.000.

Hansen, Floyd A. Combined fishing bucket and fishing rod holder. 288,953, 3-24-87, Cl. D22-136.000.

Hansen, Ole Q., to Buffalo Medical Specialties, Mfg., Inc. Medical implement case. 291,745, 9-8-87, Cl. D3-30.100.

Hansen, Robert S. Napkin holder. 290,077, 6-2-87, Cl. D7-72.000.

Hanson, Alan R. Furlined unisex urinal or similar article. 289,690, 5-5-87, Cl. D24-54.000.

Hanson, Brian E.: *See*—
Hanson, Douglas M.; Hanson, Jeff D.; and Hanson, Brian E., 291,899, Cl. D21-23.000.

Hanson, Douglas M.; Hanson, Jeff D.; and Hanson, Brian E., to JMBL Corporation. Three-dimensional game board. 291,899, 9-15-87, Cl. D21-23.000.

Hanson, Jeff D.: *See*—
Hanson, Douglas M.; Hanson, Jeff D.; and Hanson, Brian E., 291,899, Cl. D21-23.000.

Hanssen, Carl O.; and Lundstrom, Thomas, to Molnlycke Aktiebolag. Surgical sheet. 288,853, 3-17-87, Cl. D24-99.000.

Hanssen, Carl-Otto; and Starzmann, Bo M., to Molnlycke Aktiebolag. Surgical sheet. 292,023, 9-22-87, Cl. D24-49.000.

Hanssen, Carl-Otto; and Starzmann, Bo M., to Molnlycke Aktiebolag. Surgical sheet. 292,024, 9-22-87, Cl. D24-49.000.

Hanyu, Susumu, to Janome Sewing Machine Co. Ltd. Sewing machine. 291,088, 7-28-87, Cl. D15-69.000.

Hara, Kunio, to Kabushiki Kaisha Toshiba. Printer for electronic computers. 287,728, 1-13-87, Cl. D14-111.000.

Hara, Kunio; and Hiroki, Shinichi, to Kabushiki Kaisha Toshiba. Printer for electronic computers. 288,568, 3-3-87, Cl. D14-111.000.

Hara, Kunio: *See*—
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Harada, Katsuhiko, to LEC Kabushiki Kaisha. Telescoping candle lantern. 288,722, 3-10-87, Cl. D26-11.000.

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Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, 287,925, Cl. D7-351.000.
Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, 290,805, Cl. D7-351.000.
Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, 291,048, Cl. D7-351.000.

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Harden, Daniel: *See*—
Alterio, Frank C.; Genaro, Donald M.; Harden, Daniel; Johnson, Chris G.; McQueen, Edwin D.; and Mika, Paul L., 289,762, Cl. D14-101.000.

Harden, Theodore A.; and Scott, Richard E., to Takasago USA, Inc.; and Piezo Electric Products, Inc. Refill for a fragrance dispenser. 291,242, 8-4-87, Cl. D23-150.000.

Hardenbergh, James S.; Knipe, Curtis L.; and Stuesser, William R., to Sara Lee Corporation. Ham frame. 292,769, 11-17-87, Cl. D7-409.000.

Hardesty, Edwin C.: *See*—
Clarke, John E.; Hardesty, Edwin C.; and Reichard, George W., Jr., 290,457, Cl. D13-24.000.

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Shaffer, Ralph; Davidson, William; Kucharik, Elena; Hardiman, Nanette B.; Veness, Cathy L.; and McSweeney, Andrea, 288,579, Cl. D21-148.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Hardiman, Nanette B., 288,580, Cl. D21-148.000.
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Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Hardiman, Nanette B., 288,585, Cl. D21-163.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Hardiman, Nanette B., 288,704, Cl. D21-162.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; Hardiman, Nanette B.; Veness, Cathy L.; and McSweeney, Andrea, 288,705, Cl. D21-187.000.

Hardin, Bill: *See*—
McGaha, George; Truette, Dan; Landan, Ned; and Hardin, Bill, 288,122, Cl. D24-5.000.

Harding, David: *See*—
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Harding, David R., to Micro Component Technology, Inc. Electronic component vertical stack feed apparatus for use in printed circuit assembly machines. 290,962, 7-21-87, Cl. D15-199.000.

Hardion, Jacques P., to Produits Ceramiques de Touraine. Water closet. 289,320, 4-14-87, Cl. D23-65.000.

Hardion, Jacques P., to Produits Ceramiques de Touraine. Bathroom sink. 289,792, 5-12-87, Cl. D23-61.000.

Hardion, Jacques P., to Produits Ceramiques de Touraine. Bidet. 289,917, 5-19-87, Cl. D23-51.000.

Hardion, Jacques P., to Produits Ceramiques de Touraine. Water closet. 290,994, 7-21-87, Cl. D23-65.000.

Hardware & Industrial Tool Co., Inc.: *See*—
Vosbikian, Mark, 288,400, Cl. D8-1.000.
Vosbikian, Mike, 291,273, Cl. D8-10.000.

Hardy, Terence, to L.B. (Plastics) Limited. Trim strip for a window frame. 288,615, 3-3-87, Cl. D25-74.000.

Hardy, Terence, to L.B. (Plastics) Limited. Glazing bead for a window frame. 288,965, 3-24-87, Cl. D25-74.000.

Hardy, Terence, to L.B. (Plastics) Limited. Cover strip for a window frame. 289,202, 4-7-87, Cl. D25-74.000.

Hardy, Terence, to L.B. (Plastics) Limited. Window frame component. 289,203, 4-7-87, Cl. D25-74.000.

Hardy, Terence, to L.B. (Plastics) Limited. Window frame component. 289,204, 4-7-87, Cl. D25-74.000.

Hardy, Terence, to L.B. (Plastics) Limited. Window frame component. 289,552, 4-28-87, Cl. D25-74.000.

Hardy, Terence, to L.B. (Plastics) Limited. Glazing bead for a window frame. 290,172, 6-2-87, Cl. D25-74.000.

Harford, Douglas C., to Curtex of Canada Ltd. Suntan lotion applicator. 289,564, 4-28-87, Cl. D28-7.000.

Harlan, Jeffrey L.: *See*—
Harlan, Kenneth H.; and Harlan, Jeffrey L., 290,609, Cl. D14-100.000.

Harlan, Kenneth H.; and Harlan, Jeffrey L., to Personal Integrated Computer. Portable, handheld microcomputer. 290,609, 6-30-87, Cl. D14-100.000.

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Opitz, Douglas G., 290,245, Cl. D12-126.000.

Harlow, Albert L., Jr.; and Felske, Arthur M., to EZ Mail Corporation. Slidable tray insert for a mailbox. 292,539, 10-27-87, Cl. D99-29.000.

Harman, Walter D. Sprinkler spout closure. 287,939, 1-27-87, Cl. D9-447.000.

Harmony Foods, Inc.: *See*—
Edwards, Peter; Steinhilber, Budd; and Gilliam, Ken, 293,289, Cl. D7-79.000.
Edwards, Peter; Steinhilber, Budd; and Gilliam, Ken, 293,407, Cl. D7-79.000.

Harney, Eugene U. Carrier for large flat sheets of building materials. 288,276, 2-17-87, Cl. D8-14.000.

Harper, John W.: *See*—
Castor, Dennis B.; and Harper, John W., 287,888, Cl. D26-59.000.

Harrington, Mark A.: *See*—
Romestan, Ralph W.; Romestan, David L.; and Harrington, Mark A., 288,828, Cl. D21-4.000.

Harris Hardware Sales Corp.: *See*—
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Davis, Myron F.; Goetz, Fred E.; Harris, James C.; Howell, Steven E.; Jordan, Willis Y., III; Lloyd, Robert W.; Martin, Randall W.; O'Connor, David F.; and Parker, Frederick, Jr., 288,094, Cl. D14-100.000.
Goetz, Fred E.; Harris, James C.; Howell, Steven E.; and Jordan, Willis Y., III, 288,876, Cl. D6-449.000.

Harris, Michael. Pop top chess game piece. 291,815, 9-8-87, Cl. D21-52.000.

Harris, Robert M., Jr., to McKesson Corporation. Plastic bottle for liquids. 287,934, 1-27-87, Cl. D9-370.000.

Harris, Robert M., Jr., to McKesson Corporation. Plastic bottle for liquids. 288,783, 3-17-87, Cl. D9-386.000.

Harris, Rod W. Tape cutter. 290,139, 6-2-87, Cl. D19-69.000.

Harris, Willard P.: *See*—
Coscione, Joseph D.; French, John T.; and Harris, Willard P., 290,392, Cl. D23-138.300.

Harrison, Christopher R. B.; and Pittaway, Alan K., to Wilkinson Sword Limited. Garden shear. 288,275, 2-17-87, Cl. D8-5.000.

Harrison, Christopher R. B.: *See*—
Pittaway, Alan K.; and Harrison, Christopher R. B., 290,925, Cl. D8-5.000.

Harrison, David E., to Sanderson Plumbing Products, Inc. Toilet seat. 291,348, 8-11-87, Cl. D23-71.000.

Harrison, Grant: *See*—
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Harrison, Larry D., to Eastman Kodak Company. Copier. 292,408, 10-20-87, Cl. D16-30.000.

Harrison, Larry D., to Eastman Kodak Company. Copier. 292,409, 10-20-87, Cl. D16-30.000.

Harrison, Larry D.: *See*—
Fricke, W. Patrick; and Harrison, Larry D. 293,327, Cl. D16-32.000.

Harrison, Michael A.; and Story, William R., to GTE Communication Systems Corporation. Housing for handset telephone and stand unit. 291,305, 8-11-87, Cl. D14-53.000.

Harrod, Lawrence R., to Kransco Manufacturing, Inc. Riding toy. 292,009, 9-22-87, Cl. D21-76.000.

Harshaw/Filtrol Partnership: *See*—
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Hart, Bayard W., to Smith, Dayle R. Single turn current transformer for use as a current sensor. 290,819, 7-14-87, Cl. D10-80.000.

Harter, Mark A.; and Schoumaker, Raoul J., to Westinghouse Electric Corp. Keyboard support. 288,097, 2-3-87, Cl. D14-114.000.

Harter, Mark A.; Schoumaker, Raoul J. P.; and Kurokawa, Shoichi, to Westinghouse Electric Corp. Chair. 290,193, 6-9-87, Cl. D6-366.000.

Hartt, Robert M. Foldable back rest for a canoe seat. 290,797, 7-14-87, Cl. D6-502.000.

Hartt, Robert M. Manual skeet thrower. 291,463, 8-18-87, Cl. D21-210.000.

Hartung, Philip F. Bottle. 288,530, 3-3-87, Cl. D9-375.000.

Hartzell Manufacturing Inc.: *See*—
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Hartzell, Robert H.: *See*—
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Harvey, Warren L. Time display. 291,871, 9-15-87, Cl. D10-126.000.

Harwood, Paul A. Display frame. 290,554, 6-30-87, Cl. D6-311.000.

Hasbro-Bradley, Inc.: *See*—
Fogarty, A. Edward; Fogarty, Bonnie R.; and Danna, Sabrina M., 291,817, Cl. D21-153.000.
Fogarty, A. Edward; Fogarty, Bonnie R.; and Danna, Sabrina M., 292,811, Cl. D21-153.000.

Hasbro Industries, Inc.: *See*—
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Robinette, Sheri, 287,744, Cl. D21-167.000.
Tebesceff, Andrea; and Robinette, Sheri, 287,612, Cl. D21-185.000.
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Hase, Mark A.: *See*—
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Inohara, Masanobu; and Hase, Yoshiaki, 291,743, Cl. D2-320.000.

Hasegawa, Akira, to Yoshida Kogyo, K.K. Slide fastener chain. 293,225, 12-15-87, Cl. D11-221.000.

Hasegawa, Hirotsugu, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,078, 2-3-87, Cl. D12-146.000.

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Itoh, Masafumi; Hasegawa, Sigeru; Takita, Haruki; and Suzuki, Kouji, 287,726, Cl. D14-109.000.

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Hashimoto, Masanori, to Ricoh Company, Ltd. Electrophotographic copying machine. 287,859, 1-20-87, Cl. D16-31.000.

Hashimoto, Masanori; and Imai, Akira, to Ricoh Company, Ltd. Electrophotographic copying machine. 289,771, 5-12-87, Cl. D16-31.000.

Hashimoto, Masanori, to Ricoh Company, Ltd. Facsimile transceiver/-receiver. 293,240, 12-15-87, Cl. D14-94.000.

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Hasler, Theodore J., to Airwick Industries, Inc. Carpet deodorizer applicator brush. 288,149, 2-10-87, Cl. D4-114.000.

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Seward, Barry; Woolman, Paul; Pope, Kevin C.; Redshaw, Digby R.; Hastings, Malcolm B.; and Withnall, Malcolm D. N., 287,932, Cl. D9-305.000.

Hasuike, Makio. Satchel. 288,625, 3-10-87, Cl. D3-76.000.

Hata, Hiroshi, to Hata Sporting Goods Industries Limited. Physical exerciser. 288,108, 2-3-87, Cl. D21-198.000.

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Hatakenaka, Kenji, to Sumitomo Rubber Industries, Ltd. Automobile tire. 287,842, 1-20-87, Cl. D12-151.000.

Hatakenaka, Kenji, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,084, 2-3-87, Cl. D12-151.000.

Hatakenaka, Kenji, to Sumitomo Rubber Industries, Ltd. Automobile tire. 292,085, 9-29-87, Cl. D12-147.000.

Hatanaka, Takefumi. Paper shredder cutter disc. 292,590, 11-3-87, Cl. D15-139.000.

Hatano, Hiroaki; and Mochizuki, Takeshi, to Fuji Robin Kabushiki Kaisha. Bush cutter. 290,365, 6-16-87, Cl. D15-10.000.

Hatano, Hiroaki: *See*—
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Hatcher, David O.; and Fudala, Walter N., to Posting Equipment Corporation. Computer stand with sliding keyboard shelf. 287,673, 1-13-87, Cl. D6-474.000.

Hatfield, Scott K. Lottery ticket scraper. 290,656, 5-26-87, Cl. D10-46.003.

Hatta, Chikako: *See*—
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Hattori, Kenneth M.: *See*—
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Haug, Andreas; and Schonherr, Thomas, to Hans Grohe GmbH & Co. KG. Faucet. 291,232, 8-4-87, Cl. D23-23.000.

Haug, Andreas; and Schonherr, Thomas, to Hans Grohe GmbH & Co. KG. Faucet handle. 291,238, 8-4-87, Cl. D23-29.000.

Haug, Andreas; and Schonherr, Thomas, to Hans Grohe GmbH & Co. KG. Combined escutcheon, water valve and diverter valve for bath tub shower units. 291,239, 8-4-87, Cl. D23-31.000.

Haugen, Brian A. Phonograph record display frame or similar article. 287,630, 3-10-87, Cl. D6-300.000.

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Hauser, Mark W.; and Windorski, David C., to Minnesota Mining and Manufacturing Company. Desk tray. 287,662, 1-20-87, Cl. D19-78.000.

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Hawkes, Graham S., to Deep Ocean Engineering Incorporated. Remotely controlled underwater vehicle. 291,299, 8-11-87, Cl. D12-308.000.

Hawkes, Peter C., to Andrews Maclaren Ltd. Adjustable stroller. 288,913, 3-24-87, Cl. D12-129.000.

Hawkins, Francis M.; and Baker, Neil E. Remote transom bracket for boat motor. 291,277, 8-11-87, Cl. D8-349.000.

Hawkins, Francis M.; and Baker, Neil E. Transom shroud for the rear end of a boat. 292,510, 10-27-87, Cl. D12-317.000.

Hawkins, Joseph O. Base bracket for combined ram housing and actuator. 288,208, 2-10-87, Cl. D15-138.000.

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Hayakawa, Toshio, to Bridgestone Corporation. Automobile tire. 287,708, 1-13-87, Cl. D12-147.000.

Hayakawa, Toshio; and Tomura, Atsushi, to Bridgestone Corporation. Motorcycle tire. 287,955, 1-27-87, Cl. D12-147.000.

Hayakawa, Toshio; Tomura, Atsushi; and Nishio, Hideaki, to Bridgestone Corporation. Motorcycle tire. 287,957, 1-27-87, Cl. D12-147.000.

Hayakawa, Toshio, to Bridgestone Corporation. Automobile tire. 288,190, 2-10-87, Cl. D12-147.000.

Hayakawa, Toshio; and Ohkuni, Shinichiro, to Bridgestone Corporation. Motorcycle tire. 291,874, 9-15-87, Cl. D12-147.000.

Hayakawa, Toshio; and Osawa, Toru, to Bridgestone Corporation. Automobile tire. 291,875, 9-15-87, Cl. D12-147.000.

Hayakawa, Toshio; Himuro, Yasuo; and Osawa, Toru, to Bridgestone Corporation. Automobile tire. 291,876, 9-15-87, Cl. D12-149.000.

Hayakawa, Toshio; and Kobayashi, Tetsuro, to Bridgestone Corporation. Automobile tire. 292,080, 9-29-87, Cl. D12-146.000.

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Hayashi, Takatoshi, to Kabushi Electric Co. Siren. 292,498, 10-27-87, Cl. D10-120.000.

Hayashi, Takatoshi, to Kobushi Electric Co., Ltd. Siren. 292,895, 11-24-87, Cl. D10-120.000.

Hayashi, Yoshitoki, to Kitagawa Industries Co., Ltd. Spacer. 292,871, 11-24-87, Cl. D8-354.000.

Hayes, Alfred E. Bow holster. 291,503, 8-25-87, Cl. D3-100.000.

Hayes, Ronald G.: *See*—
Bollinger, Howard N.; Cordrey, Robert E.; Hayes, Ronald G.; Musick, Gordon J.; and Williams, W. Grey. 289,909, Cl. D21-140.000.

Hayes, Thomas J.: *See*—
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Headrick, Richard T. Solar voltaic generator. 288,089, 2-3-87, Cl. D13-3.000.

Heaney, Dennis J.; and Reiter, Wm. Bruce, to Vollrath Company, The. Steam table pan. 291,526, 8-25-87, Cl. D7-354.000.

Hearn, David E. Fish carrier. 293,358, 12-22-87, Cl. D22-134.000.

Heartland Industries, Inc.: *See*—
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Heavner, Robert E. Oil filter remover. 292,665, 11-10-87, Cl. D8-14.000.

Hebert, Loney J., Jr. Tree sculpture. 291,072, 7-28-87, Cl. D11-118.000.

Heck, Samuel C.; and Bokmiller, David J., to Sani-Fresh International, Inc. Fluid cartridge for a cleaning tool or the like. 291,259, 8-4-87, Cl. D32-45.000.

Hedrick, John D. Shoulder-stock scope and camera mount. 290,709, 7-7-87, Cl. D16-44.000.

Hedstrom Corporation: *See*—
Smith, Stephen W.; and Cunard, Joel C., 291,187, Cl. D12-111.000.
Smith, Stephen W.; and Cunard, Joel C., 291,292, Cl. D12-111.000.
Vovtko, C. J.; and Cunard, Joel C., 291,291, Cl. D12-111.000.

Hefendehl, Hans Friedrich: *See*—
Brussing, Bernd, 292,957, Cl. D6-475.000.

Hefling, Dennis V., to Coleman Company, Inc., The. Air compressor. 293,447, 12-29-87, Cl. D15-9.000.

Hegg, Allan B.; Makowski, Lloyd S.; and Phares, James S., to Century Boat Company. Boat. 288,087, 2-3-87, Cl. D12-315.000.

Heggdal, Kjell A.; Relling, Harald; Lunde, Martin; Mork, Harry; and Haukvik, Ola, to J. E. Ekornes A/S. Adjustable chair. 290,431, 6-23-87, Cl. D6-367.000.

Heggdal, Kjell A.; Haukvik, Ola; Relling, Harald; Lunde, Martin; and Mork, Harry, to J. E. Ekornes A/S. Adjustable chair. 291,265, 8-11-87, Cl. D6-367.000.

Heide, Jorgen, to Richards Medical Company. Exposed outer cover for an in-the-ear hearing aid. 290,511, 6-23-87, Cl. D24-35.000.

Heilig, Mort, to Supercruiser, Inc. Scooter. 293,340, 12-22-87, Cl. D21-81.000.

Heinfield, John E. Turf lifting tool or the like. 292,059, 9-29-87, Cl. D8-1.000.

Heldor Industries, Inc.: *See*—
Robinson, Ural M., 288,227, Cl. D23-3.000.

Helikon Furniture Co., Inc.: *See*—
Becker, Robert B., 292,151, Cl. D6-428.000.

Helikon Furniture Co., Inc.: *See*—
Becker, Robert B., 290,796, Cl. D6-480.000.

Helinsky, Jonathan. Combined dispenser and caddy for baby toiletries. 288,147, 2-10-87, Cl. D3-74.000.

Helix Limited: *See*—
Warwicker, Clive W., 291,139, Cl. D99-28.000.

Helling, Bernd: *See*—
Rutherford, David G.; Helling, Bernd; Shearn, David M.; and Shaler, David, 292,584, Cl. D14-94.000.

Hellmer, Robert N.; and Smallwood, Robert J. Escape symbol. 291,705, 9-1-87, Cl. D20-30.000.

Hellwig, Lowell L.; and Rapp, Beverly J. Cart for transporting wash bucket and accessories. 287,776, 1-13-87, Cl. D34-21.000.

Hellwig, Lowell L.; and Rapp, Beverly J. Gardeners cart. 287,777, 1-13-87, Cl. D34-20.000.

Helou, Garry; and Whitley, Kevin, to Repco Limited. Battery. 293,234, 12-15-87, Cl. D13-8.000.

Hempe Manufacturing Co.: *See*—
Keddie, David P.; and Kelly, Gordon D., 287,668, Cl. D4-115.000.

Henderson, Erma L.: *See*—
Miller, Karen L.; Turner, Linda L.; and Henderson, Erma L., 290,810, Cl. D9-318.000.

Henderson, Ralph L. Firewood holder rack, or similar article. 287,618, 1-6-87, Cl. D23-138.500.

Henderson, Richard E., to Rea, Joan. Insulated beverage container carrier. 288,501, 3-3-87, Cl. D3-30.100.

Hendrick, William B., to Mueller Furniture Corporation. Chair. 291,949, 9-22-87, Cl. D6-375.000.

Hendrick, William B., to Mueller Furniture Corporation. Swivel chair. 292,655, 11-10-87, Cl. D6-366.000.

Hendricks, Howard: *See*—
Pittman, Charles A., III; and Hendricks, Howard, 287,715, Cl. D13-1.000.

Hendrickson, Bradley; and Hudsonl, Clair W. Two seat tricycle. 289,271, 4-14-87, Cl. D12-112.000.

Hengesbach, Robert W. Spraying wand. 288,838, 3-17-87, Cl. D23-35.000.

Hengesbach, Robert W. Spraying wand. 288,839, 3-17-87, Cl. D23-35.000.

Hengesbach, Robert W. Flow control nozzle. 292,606, 11-3-87, Cl. D23-226.000.

Hengesbach, Robert W. Flow control nozzle for sprayers. 293,127, 12-8-87, Cl. D23-226.000.

Hengst, Alfred: *See*—
Janke, Heinrich, Hengst, Alfred, and Uellenberg, Hans-Kurt, 292,412, Cl. D16-133.000.

Henik, John. Truck body. 289,149, 4-7-87, Cl. D12-96.000.

Henin, Kirk, to Harris Hardware Sales Corp. Frame mounting bracket for a swinging door. 287,817, 1-20-87, Cl. D8-380.000.

Henkel Kommanditgesellschaft auf Aktien: *See*—
Buecheler, Herbert; and Tuerk, Erich, 289,109, Cl. D4-114.000.

Henkels, Walter. Ball point pen. 287,736, 1-13-87, Cl. D19-49.000.

Henkels, Walter. Thermometer. 288,178, 2-10-87, Cl. D10-58.000.

Hennequin, Petrus J. Cordlock for raisable blind. 291,395, 8-18-87, Cl. D6-580.000.

Hennigan, Michael J.; and Wolff, Stephen H., to Wolff Marketing Group Inc., The. Memo pad holder. 290,024, 5-26-87, Cl. D19-78.000.

Henning, Verne R. Video cassette display rack. 288,038, 2-3-87, Cl. D6-458.000.

Hennuy, Jean, to Calor S.A. Electric iron. 291,616, 8-25-87, Cl. D32-70.000.

Henny Penny Corporation: *See*—
Koopman, Peter J., 288,877, Cl. D6-445.000.

Henri Leray AB: *See*—
Leray, Henri, 288,975, Cl. D32-49.000.
Leray, Henri, 289,232, Cl. D4-122.000.

Henriksson, Kjell, to Baby Bjorn Aktiebolag. Baby chair. 291,748, 9-8-87, Cl. D6-333.000.

Henry, Susanne G., to Chamberlain Manufacturing Corporation. Motor housing for a garage door operator. 292,792, 11-17-87, Cl. D13-2.000.

Henry, Tsang H. T.: *See*—
Fong, Peter; and Henry, Tsang H. T., 290,086, Cl. D8-353.000.
Fong, Peter; and Henry, Tsang H. T., 291,888, Cl. D14-95.000.

Henshaw, Garry E. Combination bottle opener and resealer. 291,052, 7-28-87, Cl. D8-40.000.

Hensley, Donald L. Skeletal spinal bone-shaped telephone set. 290,840, 7-14-87, Cl. D14-53.000.

Hentrich, William G. Collapsible beverage container holder. 289,961, 5-26-87, Cl. D7-70.000.

Hentschel, Harry, to Siemens Aktiengesellschaft. Telephone handset or similar article. 291,885, 9-15-87, Cl. D14-63.000.

Hentzschel, Walter G.; Brock, James E.; and Norcross, David R., to TECO Products & Testing Corporation. Step support bracket. 288,288, 2-17-87, Cl. D8-380.000.

Heob, Norvel J., to Fasco Industries, Inc. Blower for moving flue gases in a condensing furnace. 289,680, 5-5-87, Cl. D23-127.000.

Hepworth, Paul S., to Plas Plugs Limited. Frame for tile cutter. 291,578, 8-25-87, Cl. D15-127.000.

Herlard-Dubreuil, Marc, to A. De Luze & Fils & Cie. Decanter. 290,089, 6-2-87, Cl. D9-385.000.

Herman Miller, Inc.: *See*—
Chadwick, Donald T.; and Stumpf, William E., 289,120, Cl. D6-502.000.
Medema, Douglas J.; Staufenberg, Donald J.; and Kelley, James O., 293,135, Cl. D26-61.000.
Staufenberg, Donald J.; and Kelley, James O., 292,264, Cl. D8-380.000.

Herman, Pinky. Foot protector. 291,621, 9-1-87, Cl. D2-271.000.

Hermqvist, Marie-Louise. Handlebar grip. 287,568, 1-6-87, Cl. D8-303.000.

Herpel, Donald R. Air dam. 287,581, 1-6-87, Cl. D12-181.000.

Herr, Richard W. Boat chair. 291,508, 8-25-87, Cl. D6-367.000.

Herrera, Freddy. Beverage can holder. 290,922, 7-21-87, Cl. D7-70.000.

Herring, John B.; and Herring, Valerie P. Game board. 288,340, 2-17-87, Cl. D21-35.000.

Herring, Valerie P.: *See*—
Herring, John B.; and Herring, Valerie P., 288,340, Cl. D21-35.000.

Hertensteiner, Thomas J. Stud mount, pipe support bracket. 293,203, 12-15-87, Cl. D8-354.000.

Hertzano, Micha. Playing piece. 292,106, 9-29-87, Cl. D21-51.000.

Herzberg, Max; and Fish, Falk, to Orgenics, Ltd. Assay cards. 293,374, 12-22-87, Cl. D24-17.000.

Hess, Stanley C., to B.M.X. Products, Inc. Bicycle sprocket. 288,421, 2-24-87, Cl. D12-123.000.

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Duguid, Moray S., 288,944, Cl. D21-65.000.
Emms, Norman R.; and Bryant, Peter D., 289,185, Cl. D21-65.000.
Emms, Norman R., 293,004, Cl. D21-158.000.
Thomson, Harry S.; Raffo, David M.; and Pape, John A., 287,866, Cl. D21-150.000.
Thomson, Harry S.; Raffo, David M.; and Pape, John A., 287,984, Cl. D21-122.000.
Thomson, Harry S.; Raffo, David M.; and Pape, John A., 289,186, Cl. D21-109.000.
Thomson, Harry S.; Raffo, David M.; and Pape, John A., 290,655, Cl. D24-45.000.
Thomson, Harry S.; Raffo, David M.; and Pape, John A., 292,011, Cl. D21-148.000.

Thomson, Harry S.; Raffo, David M.; and Pape, John A., 292,012, Cl. D21-159.000.
Thomson, Harry S.; Raffo, David M.; and Pape, John A., 293,342, Cl. D21-139.000.
Hetherington, Michael W., to Iona Appliances Inc./Appareils Iona Inc. Portable vacuum cleaner. 291,376, 8-11-87, Cl. D32-18.000.
Hewitt, Stephen M. Mirror assembly. 288,385, 2-24-87, Cl. D6-302.000.
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Heyl, Gregg, to Virco Mfg. Corporation. Chair. 289,235, 4-14-87, Cl. D6-365.000.
Heywood, R. G.: *See*—
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Laughlin, Jennifer, 288,023, Cl. D2-252.000.
Laughlin, Jennifer, 288,024, Cl. D2-252.000.
Laughlin, Jennifer, 288,025, Cl. D2-252.000.
Laughlin, Jennifer, 288,026, Cl. D2-252.000.
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Hice, James E. Shelf unit. 291,038, 7-28-87, Cl. D6-479.000.
Hicks, Cecil T. Diaphragm pump. 291,319, 8-11-87, Cl. D15-7.000.
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Highfield, John W., to Zenith Enterprises, Inc. Combined seat and container. 293,047, 12-8-87, Cl. D6-335.000.
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Vaughn, Daniel L., 289,024, Cl. D11-164.000.
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Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., 289,952, Cl. D11-164.000.
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Hill, Charles P.; and Spangler, Anthony G., to Masco Corporation. Tub and shower shell. 288,119, 2-3-87, Cl. D23-69.000.
Hill, Charles P.; Spangler, Anthony G.; and Hutto, Joe D., to Masco Corporation. Kitchen faucet. 290,492, 6-23-87, Cl. D23-23.000.
Hill, Charles P.; and Spangler, Anthony G., to Masco Corporation. Handle for a faucet. 290,736, 7-7-87, Cl. D23-28.000.
Hill, Charles P.; and Spangler, Anthony G., to Masco Corporation. Faucet handle. 290,737, 7-7-87, Cl. D23-29.000.
Hill, Charles P.; and Spangler, Anthony G., to Masco Corporation. Faucet handle. 290,738, 7-7-87, Cl. D23-29.000.
Hill, Charles P.; and Spangler, Anthony G., to Masco Corporation. Head for a faucet handle. 290,739, 7-7-87, Cl. D23-29.000.
Hill, Charles P.; and Spangler, Anthony G., to Masco Corporation. Faucet spout. 290,992, 7-21-87, Cl. D23-32.000.
Hill, Charles P.; and Spangler, Anthony G., to Masco Corporation. Faucet handle. 292,226, 10-6-87, Cl. D23-252.000.
Hill, Charles P.; and Spangler, Anthony G., to Masco Corporation. Faucet. 293,362, 12-22-87, Cl. D23-241.000.
Hill, David C.; and Stanley, Donald, to Fisher Scientific Group I.V. infusion pump. 293,468, 12-29-87, Cl. D24-17.000.
Hill, Edward H. Combined irrigating and digging tool. 292,118, 9-29-87, Cl. D23-17.000.
Hill, Mark L. Combined automobile door handle and cover plate. 292,063, 9-29-87, Cl. D8-302.000.
Hill, Michael A., to Hill Products Limited. Desk calendar. 292,715, 11-10-87, Cl. D19-25.000.
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Hill, Michael W. Combined clock and picture frame. 289,264, 4-14-87, Cl. D10-2.000.
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Hill, Michael A., 292,715, Cl. D19-25.000.
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Hill, Royce W., to Micro Plastics, Inc. Printed circuit board stand-off. 290,929, 7-21-87, Cl. D8-354.000.
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Hill, Royce W., to Micro Plastics, Inc. Printed circuit board stand-off. 291,278, 8-11-87, Cl. D8-354.000.
Hill, Royce W., to Micro Plastics, Inc. Wire bundle clip. 291,532, 8-25-87, Cl. D8-395.000.
Hill, Royce W., to Micro Plastics, Inc. Printed circuit board stand-off. 291,864, 9-15-87, Cl. D8-354.000.
Hill, Royce W., to Micro Plastics, Inc. Printed circuit board stand-off. 292,263, 10-13-87, Cl. D8-354.000.
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Hines, John W. Display fixture support bracket. 290,087, 6-2-87, Cl. D8-373.000.
Hinkel, Walter W.; Waibel, Terry J.; and Panich, Zarko, to Goodyear Tire & Rubber Company, The. Tire. 288,914, 3-24-87, Cl. D12-143.000.
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Hinrichsen, Silvana, to Firestone Tire & Rubber Company, The. Tire. 289,275, 4-14-87, Cl. D12-147.000.
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Hirai, Masakazu, to Nagase Gomukogyo Kabushiki Kaisha. Ball for use in sports. 288,461, 2-24-87, Cl. D21-205.000.

Hirai, Masakazu, to Nagase Gomukogyo Kabushiki Kaisha. Ball for use in sports. 288,462, 2-24-87, Cl. D21-205.000.

Hiraishi, Etsuo; Doi, Tetsuyuki; and Morikawa, Hiroshi, to Ryobi Limited. Electric drill. 287,814, 1-20-87, Cl. D8-67.000.

Hiranaka, Shinichi, to Toyoda Jidosha Kabushiki Kaisha. Rear combination lamp for an automobile. 293,032, 12-1-87, Cl. D26-120.000.

Hiranaka, Shinichi, to Toyoda Jidosha Kabushiki Kaisha. Clearance lamp for an automobile. 293,033, 12-1-87, Cl. D26-120.000.

Hirano, Hiroshi, to Nissan Motor Co., Ltd. Combined automobile taillight lens and cover. 288,137, 2-3-87, Cl. D26-120.000.

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Hirooka, Junji; and Kanazawa, Manabu, to Canon Kabushiki Kaisha. Desk-top electronic calculator. 290,018, 5-26-87, Cl. D18-7.000.

Hirooka, Junji; and Kanazawa, Manabu, to Canon Kabushiki Kaisha. Desk-top electronic calculator. 290,019, 5-26-87, Cl. D18-7.000.

Hirooka, Junji, to Canon Kabushiki Kaisha. Case for a word processor. 291,027, 7-28-87, Cl. D3-76.000.

Hirooka, Junji; and Murakami, Osamu, to Canon Kabushiki Kaisha. Memory card for word processor. 291,698, 9-1-87, Cl. D14-114.000.

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Hirota, Yoshio, to Kabushiki Kaisha Hirota. Cigarette lighter. 289,802, 5-12-87, Cl. D27-40.000.

Hirota, Yoshio, to Kabushiki Kaisha Hirota. Cigarette lighter. 289,803, 5-12-87, Cl. D27-40.000.

Hirota, Yoshio, to Kabushiki Kaisha Hirota. Cigarette lighter. 289,804, 5-12-87, Cl. D27-40.000.

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Handler, Milton E.; Sylvan, Richard; and Peterson, Michael. 293,052, Cl. D6-431.000.

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Hisle, Ralph E.: *See*—
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Shibayama, Masato; Kinoshita, Seiji; Murata, Atsushi; and Hasegawa, Toshiyuki. 289,895, Cl. D14-53.000.

Hitachi, Ltd.: *See*—
Aoki, Takao; Kiyota, Toru; Takahashi, Akemi; Tanaka, Ryuichiro; Kogane, Hiroyuki; Higashihara, Toru; Kawaguchi, Mitsuo; and Kashima, Taisuke. 289,161, Cl. D14-82.000.
Ariyoshi, Tsukasa; Aoki, Takao; Tsuburaya, Kazuyuki; Kiyota, Toru; Tanaka, Ryuichiro; and Takahashi, Akemi. 291,572, Cl. D14-81.000.
Gotou, Atsuyuki; Shibayama, Masato; Abe, Takeshi; Hisatomi, Ryouichi; and Sasaki, Takeshi. 293,324, Cl. D15-199.000.
Gotou, Atuyuki; Shibayama, Masato; Abe, Takeshi; Kawakami, Takashi; and Masuda, Shintaro. 288,935, Cl. D15-199.000.
Hujimori, Shirou; and Miyazaki, Masayoshi. 293,242, Cl. D14-100.000.
Hujimori, Shirou; and Katou, Kouichi. 293,245, Cl. D14-100.000.
Imaizumi, Yutaka; Higashi, Housei; and Shibayama, Masato. 292,001, Cl. D15-199.000.
Imaizumi, Yutaka; Higashi, Housei; and Shibayama, Masato. 292,003, Cl. D15-199.000.
Katou, Fumihito; Nishiyama, Kazuhiko; Hiraoka, Kazuhiko; Itoh, Takao; and Tani, Sadao. 289,947, Cl. D14-14.000.
Kosukegawa, Yuichi; Chiba, Noboru; and Hyuga, Hideyo. 290,001, Cl. D14-2.000.
Kouno, Shuichi; Utsuki, Toshiyuki; Sakae, Hideki; and Watanabe, Kenichi. 290,872, Cl. D23-155.000.
Kouno, Shuichi; Utsuki, Toshiyuki; Sakae, Hideki; and Watanabe, Kenichi. 291,352, Cl. D23-157.000.
Kouno, Shuichi; Sakae, Hideki; Yanagisawa, Kazunori; and Tsumurai, Yasuo. 291,486, Cl. D23-155.000.
Kubo, Kazuhiko; Tsuda, Masanori; Hirota, Taisuke; Hosoya, Katsuyuki; Torii, Ichirou; and Suzuki, Atsushi. 292,130, Cl. D26-3.000.
Nagai, Gen; Ohsawa, Takao; Takayama, Hideki; and Takahashi, Masao. 292,629, Cl. D32-6.000.
Nagai, Gen; Ohsawa, Takao; Takayama, Hideki; and Hikino, Keiji. 292,630, Cl. D32-8.000.
Nishiyama, Kazuhiko; and Itoh, Takao. 291,689, Cl. D14-1.000.
Ohsawa, Takao; Takayama, Hideki; Kaji, Hikaru; and Ohsugi, Hiroshi. 290,052, Cl. D32-6.000.
Shibayama, Masato; Abe, Takeshi; Gotou, Atuyuki; Kawakami, Takashi; and Masuda, Shintaro. 289,406, Cl. D15-199.000.
Shibayama, Masato; Abe, Takeshi; Kawakami, Takashi; and Masuda, Shintaro. 289,407, Cl. D15-199.000.
Shibayama, Masato; Abe, Takeshi; Gotou, Atuyuki; Nakamura, Mituo; Takahashi, Tutomu; and Tuji, Masao. 290,263, Cl. D15-199.000.
Shibayama, Masato; Abe, Takeshi; Tsuji, Ko; Uchida, Akira; and Ohshiro, Masayuki. 292,000, Cl. D15-199.000.
Shibayama, Masato; Imaizumi, Yutaka; and Higashi, Housei. 292,002, Cl. D15-199.000.
Shibuya, Shinji; Adachi, Koushirou; and Morishita, Yasuji. 290,844, Cl. D14-109.000.
Takeuchi, Akitaka; Abe, Takeshi; Endo, Hiroshi; Shimizu, Hideyasu; and Tsunematsu, Shinichiro. 288,444, Cl. D14-94.000.
Toyoda, Fumio; Kuroiwa, Yukio; Chiba, Noboru; and Hamamoto, Katsuya. 291,571, Cl. D14-78.000.
Utsuki, Toshiyuki; Kouno, Shuichi; Yanagisawa, Kazunori; and Tsumurai, Yasuo. 290,997, Cl. D23-155.000.

Hitzler, Alfred, to Biocomfort Produkte zur Gesundheitpflege GmbH. Air cleaner. 291,351, 8-11-87, Cl. D23-150.000.

Hizume, Kiyoshi: *See*—
Oshima, Takashi; Yamaguchi, Ryoji; and Hizume, Kiyoshi. 289,165, Cl. D14-94.000.

Hlava, Pavel; and Hrivna, Josef, to Crystalex, Oborovy Podnik. Goblet or similar article. 290,208, 6-9-87, Cl. D7-13.000.

Hlavaty, Terrence J., to International Jensen Incorporated. Loudspeaker. 288,807, 3-17-87, Cl. D14-30.000.

Hledin, Peter C. Catamaran type boat. 290,948, 7-21-87, Cl. D12-310.000.

Ho, Chin-Chou. Connector for attaching an infant seat to a table. 293,285, 12-22-87, Cl. D6-491.000.

Hoard, Ann. Pen and pencil holder with pockets. 288,624, 3-10-87, Cl. D3-74.000.

Hobgood, Barbara J. Display stand. 288,154, 2-10-87, Cl. D6-466.000.

Hochstein, Shula Y. Cookie jar. 289,723, 5-12-87, Cl. D7-79.000.

Hodge, William E.; and Fenton, Hugh M. R., to Double Shot Enterprises Inc. Shower fixture having twin outlets extending from a single inlet. 289,677, 5-5-87, Cl. D23-40.000.

Hodges, Virgil D. Self adjusting belt tightening tool. 289,134, 4-7-87, Cl. D8-44.000.

Hodlewsky, Wasyly G.: *See*—
Schroeder, Roger H.; and Hodlewsky, Wasyly G., 289,496, Cl. D8-499.000.
Schroeder, Roger H.; and Hodlewsky, Wasyly G., 289,497, Cl. D8-499.000.
Schroeder, Roger H.; and Hodlewsky, Wasyly G., 289,606, Cl. D8-499.000.
Schroeder, Roger H.; and Hodlewsky, Wasyly G., 289,607, Cl. D8-499.000.
Schroeder, Roger H.; and Hodlewsky, Wasyly G., 289,608, Cl. D8-499.000.
Schroeder, Roger H.; and Hodlewsky, Wasyly G., 289,734, Cl. D8-499.000.

Hoeckel, Linda J. Sunshade for an infant's car seat. 288,757, 3-17-87, Cl. D6-491.000.

Hoehne, George, to Bonny Products, Inc. Masher. 291,761, 9-8-87, Cl. D7-101.000.

Hoepfner, Thomas L.; and Leistikow, Keith A. Combined grass collector and blower. 290,366, 6-16-87, Cl. D15-17.000.

Hoff, Patrick E. Monopolar electrosurgical device with dual 360° hand switch. 288,359, 2-17-87, Cl. D24-28.000.

Hoffman, Ronald J.; Alair, Douglas M.; La Fleur, Robin S.; and Salzberger, Claude, to ComputerLand Corporation. Desk. 290,197, 6-9-87, Cl. D6-422.000.

Hoffmann, Jochen. Seat. 293,395, 12-29-87, Cl. D6-375.000.

Hoffmann-La Roche Inc.: *See*—
Bordonaro, Frank; and McTiernan, James. 287,812, Cl. D8-40.000.
Bordonaro, Frank; and McTiernan, James. 288,894, Cl. D8-18.000.
Borer, Claude; and Greter, Andreas. 288,845, Cl. D24-29.000.

Hofland, Robert M., to International Business Machines Corporation. Non-impact printer or the like. 289,904, 5-19-87, Cl. D18-13.000.

Hogan, Michael P.: *See*—
Jordan, Robert A.; Hogan, Michael P.; and Mackay, Henry J., 291,987, Cl. D13-41.000.

Hohulin, Samuel E.; and Thomas, Joyce K., to National Union Electric Corporation. Hand-held vacuum cleaner with extended nozzle. 288,971, 3-24-87, Cl. D32-18.000.

Hohulin, Samuel E.: *See*—
Thomas, Joyce K.; and Hohulin, Samuel E., 290,895, Cl. D32-22.000.

Hoi, Winter W. Y., to Elec & Eltek Company Limited. Handset and stand telephone unit. 287,851, 1-20-87, Cl. D14-53.000.

Holcomb, David A.; and Tryon, James A., to Fite, F. Bartow. Combination pepper grinder and dispenser. 289,126, 4-7-87, Cl. D7-53.000.

Holcomb, Jack N. Case for radio and battery. 292,287, 10-13-87, Cl. D14-76.000.

Holcomb, Jack N. Radio case with antenna. 292,514, 10-27-87, Cl. D14-76.000.

Holcomb, Stephen A. Anatomic cycle seat for relieving pelvic pressure. 293,394, 12-29-87, Cl. D6-354.000.

Holden, Lawrence. Floatation aid. 293,356, 12-22-87, Cl. D21-238.000.

Holden, M. James, to Mobil Oil Corporation. Packaging tray. 288,295, 2-17-87, Cl. D9-425.000.

Holen, James T., to Abbott Laboratories. Sample processor card for use in chemical analysis apparatus. 292,236, 10-6-87, Cl. D24-22.000.

Holewinski, Robert D.; Hamilton, Leslie; and Blatherwick, William J., to Johnson & Johnson Dental Products Company. Packaging container for a bottle or the like. 287,821, 1-20-87, Cl. D9-341.000.

Holewinski, Robert D.; Weissenburger, Edward A.; and Blatherwick, William J., to Johnson & Johnson Dental Products Company. Dental syringe. 287,877, 1-20-87, Cl. D24-14.000.

Holewinski, Robert D.; Hamilton, Leslie; and Blatherwick, William J., to Johnson & Johnson Dental Products Company. Hinged container for syringes. 288,481, 2-24-87, Cl. D24-31.000.

Holewinski, Robert D.; and Hamilton, Leslie, to Johnson & Johnson Dental Products, Company. Compartmented packaging container for dental materials or the like. 293,024, 12-1-87, Cl. D24-31.000.

Holewinski, Robert D.: *See—*
- Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., 287,874, Cl. D24-10.000.
- Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., 287,875, Cl. D24-10.000.
- Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., 287,876, Cl. D24-10.000.
- Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., 288,233, Cl. D24-31.000.
- Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., 288,234, Cl. D24-31.000.
- Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., 288,482, Cl. D24-31.000.
- Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., 288,606, Cl. D24-31.000.
- Hamilton, Leslie; Holewinski, Robert D.; and Blatherwick, William J., 289,974, Cl. D9-341.000.
- Hamilton, Leslie; and Holewinski, Robert D., 291,534, Cl. D9-345.000.

Holl, Steven, to Pace Collection, Inc. Chair. 287,672, 1-13-87, Cl. D6-370.000.

Holl, Steven, to Pace Collection, Inc. Table. 289,476, 4-28-87, Cl. D6-487.000.

Holl, Steven; and Janson, Mark, to Pace Collection, Inc. Sofa. 289,710, 5-12-87, Cl. D6-381.000.

Holland, Charlie R.: *See—*
- DelPercio, Michael J.; and Holland, Charlie R., 292,420, Cl. D20-4.000.

Hollander, James. Face shield. 291,256, 8-4-87, Cl. D29-16.000.

Hollar, Robert C.; and Huang, Tung M., to Abbott Laboratories. Carousel for chemical analyzer or the like. 287,633, 1-6-87, Cl. D24-31.000.

Holley, Robert E.: *See—*
- Rumens, Kurt W. F.; and Hotley, Robert E., 292,020, Cl. D23-128.000.

Hollibaugh Manufacturing Company, Inc.: *See—*
- Kingston, James E., 292,214, Cl. D15-7.000.

Hollinger, Fred; and Ross, Paul, to E & B Giftware, Inc. Telescoping tie rack housing. 288,035, 2-3-87, Cl. D6-324.000.

Hollingshead, John; and Barnes, Anna. Doll. 288,105, 2-3-87, Cl. D21-167.000.

Hollingsworth, James S., III: *See—*
- Davis, Lee W.; Doughty, Kenneth L.; and Hollingsworth, James S., III, 288,325, Cl. D15-7.000.

Hollinrake, Thomas J.: *See—*
- Robinson, Michael B.; and Hollinrake, Thomas J., 292,733, Cl. D23-295.000.

Holloway, Denise M. Baby bath cushion. 291,521, 8-25-87, Cl. D6-601.000.

Holloway, Thomas F., to Risdon Corporation. Lipstick dispenser. 290,762, 7-7-87, Cl. D28-89.000.

Holloway, Wynford, to Creative Devices Research, Ltd. Computer joystick. 290,719, 7-7-87, Cl. D21-48.000.

Holmes, Kris A.: *See—*
- Bigelow, Charles A.; and Holmes, Kris A., 289,420, Cl. D18-24.000.
- Bigelow, Charles A.; and Holmes, Kris A., 289,421, Cl. D18-24.000.
- Bigelow, Charles A.; and Holmes, Kris A., 289,422, Cl. D18-24.000.
- Bigelow, Charles A.; and Holmes, Kris A., 289,773, Cl. D18-24.000.

Holmqvist, Ulf J.: *See—*
- Skoog, Hans-Olov; Holmqvist, Ulf J.; and Tellden, Leif K., 292,981, Cl. D15-199.000.

Holscher, Knud, to IFO Sanitar AB. Water-closet. 293,019, 12-1-87, Cl. D23-301.000.

Holscher, Knud H., to Dansk Pressalt A/S. Combined toilet seat and cover, or similar article. 287,998, 1-27-87, Cl. D23-71.000.

Holt, Sherry L., to Ocean Pacific Sunwear, Ltd. Visored headband. 288,741, 3-17-87, Cl. D2-514.000.

Holterscheidt, Siegfried, to Walter Henkels GmbH. Clock. 291,539, 8-25-87, Cl. D10-24.000.

Holterscheidt, Siegfried, to Walter Henkels GmbH. Letter-opener. 292,867, 11-24-87, Cl. D8-102.000.

Holthaus, Susan M.: *See—*
- Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; McSweeney, Andrea; Cozad, Cheryl L.; and Oliver, Yacoba C., 290,724, Cl. D21-166.000.
- Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, 290,725, Cl. D21-166.000.
- Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, 290,726, Cl. D21-166.000.

Holtsch Metallwarenherstellung. *See—*
- Holtsch, Peter, 291,331, Cl. D21-59.000.

Holtsch, Peter, to Holtsch Metallwarenherstellung. Balancing novelty device. 291,331, 8-11-87, Cl. D21-59.000.

Holzkopf, Michael E.; and Hayes, Thomas J., to Ekco Products, Inc. Container for food or the like. 290,232, 6-9-87, Cl. D9-424.000.

Holznecht, Richard T.; Dyble, Stephanie; and Stamm, Edward A., to Parker Pen (Benelux B.V.). Writing instrument. 290,265, 6-9-87, Cl. D19-47.000.

Homa Locks, Inc.: *See—*
- Stolarz, Edward M., 290,190, Cl. D6-319.000.

Homesteel Achel P.V.B.A.: *See—*
- Spits, Marc, 291,918, Cl. D24-8.000.

Homsy, Adel, to Leonard S.A. Wristwatch. 289,145, 4-7-87, Cl. D10-32.000.

Homsy, Charles A.; Tellkamp, John W.; and Kent, John N., to Vitek, Inc. Temporomandibular joint prosthesis. 288,236, 2-10-87, Cl. D24-33.000.

Homsy, Charles A.; Tellkamp, John W.; and Kent, John N., to Vitek, Inc. Temporomandibular joint prosthesis. 288,237, 2-10-87, Cl. D24-33.000.

Homsy, Charles A.; Tellkamp, John W.; and Kent, John N., to Vitek, Inc. Temporomandibular joint condylar prosthesis. 288,238, 2-10-87, Cl. D24-33.000.

Honda Giken Kogyo Kabushiki Kaisha: *See—*
- Arai, Tomoyuki, 288,431, Cl. D12-211.000.
- Ikeda, Yutaka; and Nishimura, Tsuyoshi, 289,390, Cl. D12-91.000.
- Ito, Kentaro; and Sasaki, Chiharu, 287,834, Cl. D12-110.000.
- Ito, Mamoru, 289,988, Cl. D12-110.000.
- Makita, Akio; Nishino, Toru; and Nakazawa, Tetsuya, 287,835, Cl. D12-110.000.
- Mikado, Yoshio; Ito, Jun; and Ohsumi, Masayuki, 289,169, Cl. D15-4.000.
- Mikado, Yoshio; Ito, Jun; and Ohsumi, Masayuki, 289,170, Cl. D15-4.000.
- Miura, Takeo; and Kikuchi, Junji, 290,824, Cl. D12-110.000.
- Mizushima, Sadao; Ichikawa, Tadao; and Okada, Kenichi, 288,546, Cl. D12-146.000.
- Nakano, Koji; and Nakano, Hiroshi, 288,796, Cl. D12-110.000.
- Ooba, Yasuhiro; Yamamoto, Mitsuru; and Miyamoto, Shiro, 289,986, Cl. D12-107.000.
- Yaguchi, Tadahiro, 291,432, Cl. D13-2.000.
- Yorozu, Shungo, 288,366, Cl. D6-356.000.

Honda Tsushin Kogyo Co., Ltd.: *See—*
- Yokomizo, Zenji; and Kondo, Mitsuo, 288,554, Cl. D13-24.000.

Honeywell Inc.: *See—*
- Bonnema, Robert W.; Knutson, Robert C.; and Pasquarette, Ralph E., 293,421, Cl. D10-50.000.
- Levine, Michael R., 288,785, Cl. D10-60.000.
- Odom, James A., Jr.; and Wolfe, N. Thomas, 290,235, Cl. D10-51.000.

Honeywell Information Systems Inc.: *See—*
- Kaplan, Jay A.; Place, Peter; and Wood, Harold G., 287,590, Cl. D14-105.000.
- Kaplan, Jay A.; Place, Peter; and Wood, Harold G., 287,591, Cl. D14-105.000.

Honkanen, George P., to Acufex Microsurgical, Inc. Combined handle and shank for surgical instrument. 289,437, 4-21-87, Cl. D24-27.000.

Homma, Keizo. Air eliminator for plumbing systems. 287,997, 1-27-87, Cl. D23-46.000.

Hoogesteger, Paul A., to Bausch & Lomb Incorporated. Combined disinfector and carrying case for contact lens. 289,923, 5-19-87, Cl. D24-9.000.

Hooper, William A., Jr. Spare tire carrier. 287,959, 1-27-87, Cl. D12-202.000.

Hoover, Charles C.: *See—*
- Wood, Forrest L.; Jensen, Dale H.; Poley, Kenneth P.; Hoover, Charles C.; and Wilson, Gary L., 291,685, Cl. D12-314.000.

Hoover Company, The: *See—*
- Essex, John D., 290,893, Cl. D32-18.000.
- Kieft, Milton G.; Shorthill, Robert C.; and Keebler, A. Ronald, 292,336, Cl. D32-23.000.
- Wareham, Richard A.; Tschudy, Donald B.; and Moss, Paul L., 292,335, Cl. D32-22.000.

Hoover, John W.; Rutkowski, Richard G.; and Luppino, Rocco, to Dictaphone Corporation. Dictating machine. 291,882, 9-15-87, Cl. D14-3.000.

Hoover, John W.: *See—*
- Rutkowski, Richard G.; and Hoover, John W., 293,100, Cl. D14-11.000.

Hoover, Thomas W. Work table for a knitting machine or the like. 290,915, 7-21-87, Cl. D6-477.000.

Hoover Universal, Inc.: *See—*
- Platte, Richard L., Sr., 288,905, Cl. D9-381.000.

Hope, Risa; and Hardiman, Nanette B., to American Greetings Corporation. Toy bear figure. 288,583, 3-3-87, Cl. D21-159.000.

Hope, Thomas C.; and Quintner, Alexander D. Therapeutic mitt. 288,235, 2-10-87, Cl. D24-36.000.

Hopp, Gene P.: *See—*
- Bakula, Mark S.; Donnan, Donald W.; Ellingen, David R.; Hopp, Gene P.; Malek, Keith R.; Michalski, Steven E.; Pacetti, Larry D.; Pagac, William T.; Wente, Steven R.; and Zuzinec, Raymond R., Sr., 292,893, Cl. D10-112.000.

Horberg, Bertil K. G.; and Roland, Magnus A., to Saab-Scania Aktiebolag. Stabilizer for a vehicle suspension system. 289,277, 4-14-87, Cl. D12-160.000.

Horiuchi, Hiroshi, to Tomy Kogyo Co. Inc. Toy robot. 290,032, 5-26-87, Cl. D21-150.000.

Horiuchi, Hiroshi, to Tomy Kogyo Co. Inc. Toy robot. 290,146, 6-2-87, Cl. D21-150.000.

Horiuchi, Hiroshi, to Tomy Kogyo Co., Inc. Toy robot. 293,346, 12-22-87, Cl. D21-150.000.

Horlogerie Photographique Francais: *See*—
Elie, Francois, 293,238, Cl. D14-64.000.

Horn, Dieter H. G. Boot. 289,101, 4-7-87, Cl. D2-272.000.

Hoshino Gakki Co., Ltd.: *See*—
Hoshino, Yoshihiro, 288,696, Cl. D17-22.000.

Hoshino, Naoko; Abe, Takashi; and Suzuki, Yosuke, to Kabushiki Kaisha Toshiba. Audio tuner. 293,322, 12-22-87, Cl. D14-71.000.

Hoshino, Naoko; and Suzuki, Yosuke, to Kabushiki Kaisha Toshiba. Operation machine console for telephone information. 293,437, 12-29-87, Cl. D14-52.000.

Hoshino, Yoshihiro, to Hoshino Gakki Co., Ltd. Drum. 288,696, 3-10-87, Cl. D17-22.000.

Hosden Electronics Co., Ltd.: *See*—
Masuda, Toru, 293,432, Cl. D13-24.000.

Hosoya, Katsuyuki: *See*—
Kubo, Kazuhiko; Tsuda, Masanori; Hirota, Taisuke; Hosoya, Katsuyuki; Torii, Ichirou; and Suzuki, Atsushi, 292,130, Cl. D26-3.000.

Hostetler, Eldon, to Ziggity Systems, Inc. Cage mounted poultry watering unit. 290,413, 6-16-87, Cl. D30-14.000.

Hostetler, Eldon, to Ziggity Systems, Inc. Poultry drinking cup. 290,537, 6-23-87, Cl. D30-13.000.

Hostetler, Eldon, to Ziggity Systems, Inc. Stabilizing arm for poultry watering units. 290,770, 7-7-87, Cl. D30-13.000.

Hostetler, Eldon, to Ziggity Systems, Inc. Cage mounted poultry watering unit. 290,771, 7-7-87, Cl. D30-14.000.

Hostetler, Eldon, to Ziggity Systems, Inc. Support bracket for a cage mounted poultry watering device or similar article. 290,772, 7-7-87, Cl. D30-14.000.

Hostetler, Eldon, to Ziggity Systems, Inc. Combined support bracket and holder for a cage mounted watering unit. 290,774, 7-7-87, Cl. D30-14.000.

Hostetler, Eldon, to Ziggity Systems, Inc. Gate valve. 292,119, 9-29-87, Cl. D23-19.000.

Hotchkiss, Kenneth W.; Bramhall, George H.; and Popken, John A. Telephone light bulb replacement tool. 290,806, 7-14-87, Cl. D8-14.000.

Houdek, Pavel: *See*—
Van Buren, John M.; Houdek, Pavel; and Ginsberg, Murray, 288,368, Cl. D24-1.100.

Hough, Harold L.: *See*—
Blaisdell, Ronald G.; and Hough, Harold L., 290,045, Cl. D26-2.000.
Blaisdell, Ronald G.; and Hough, Harold L., 290,110, Cl. D13-25.000.
Blaisdell, Ronald G.; and Hough, Harold L., 290,513, Cl. D26-3.000.
Blaisdell, Ronald G.; and Hough, Harold L., 291,124, Cl. D26-3.000.

Hoult, Thomas R. Child's rocking chair. 289,234, 4-14-87, Cl. D6-348.000.

House, Jack L., to Lasar Media International Corporation. Video cabinet. 289,757, 5-12-87, Cl. D14-79.000.

House, Lawrence E.: *See*—
Somers, Robert I.; and House, Lawrence E., 288,404, Cl. D8-49.000.

House, Lawrence E., II; and Somers, Robert I., to Black & Decker, Inc. Combined hand-held cordless electric drill and holster therefor. 292,169, 10-6-87, Cl. D8-68.000.

House, Lawrence E., II; and Somers, Robert I., to Black & Decker, Inc. Combined cordless electric drill, holster and charging base therefor. 293,201, 12-15-87, Cl. D8-68.000.

Houser, Steven A.: *See*—
Armstrong, Mac'ay M.; Houser, Steven A.; and Armstrong, Jeffrey A., 289,328, Cl. D24-10.000.
Armstrong, Maclay M.; Houser, Steven A.; and Armstrong, Jeffrey A., 292,123, Cl. D24-10.000.

Houston, Herbert A. Shower curtain holder. 290,685, 7-7-87, Cl. D8-368.000.

Howard, John A.: *See*—
van Berne, Joost; van der Vlies, Gerardus J.; and Howard, John A., 288,139, Cl. D32-53.000.

Howard, Milton L. Security grille. 288,132, 2-3-87, Cl. D25-53.000.

Howden, Ashley G.: *See*—
Jones, Lawrence T.; Lee, R. Stephen; Ishikawa, Paul J.; and Howden, Ashley G., 290,479, Cl. D21-134.000.
Jones, Lawrence T.; Lee, R. Stephen; Ishikawa, Paul J.; and Howden, Ashley G., 292,602, Cl. D21-118.000.

Howell, Steven E.: *See*—
Davis, Myron F.; Goetz, Fred E.; Harris, James C.; Howell, Steven E.; and O'Connor, David F., 287,974, Cl. D14-114.000.
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Inohara, Masanobu; and Hase, Yoshiaki, to Asics Corporation. Shoe sole. 291,743, 9-8-87, Cl. D2-320.000.
Inoue, Akifumi; and Takeda, Koshiro, to Nippon Gakki Seizo Kabushiki Kaisha. Industrial robot. 291,890, 9-15-87, Cl. D15-199.000.
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Inoue, Koui, to Daiwa Seiko, Inc. Synthetic resin tube. 290,752, 7-7-87, Cl. D25-73.000.
Inoue, Koui, to Daiwa Seiko, Inc. Synthetic resin tube. 290,882, 7-14-87, Cl. D25-73.000.
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Dideriksen, Erling T., 290,628, Cl. D21-108.000.
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Irby, Daniel L. Cover for a vehicle brake fluid reservoir. 290,9 7-21-87, Cl. D12-155.000.

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Jacobson, Clayton J. Aquatic vehicle. 289,892, 5-19-87, Cl. D12-307.000.
Jacobson, Loren A. Combined oil spout and valve. 291,781, 9-8-87, Cl. D9-448.000.
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D'Innocente, Ralph; and Drasin, Larry, 288,239, Cl. D24-38.000.
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Jacuzzi, Remo, to Jason International, Inc. Suction fitting for a hydrotherapy spa and the like. 290,166, 6-2-87, Cl. D23-42.000.
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Jado Bathroom and Hardware Manufacturing Corp.: *See—*
Jans, Franz W., 290,159, Cl. D23-25.000.
Jans, Franz W., 291,233, Cl. D23-25.000.
Jaffe, Martin A.; and Martinez, Carlos M., to Kensington Microware Limited. Electrical line cord surge suppressor. 290,598, 6-30-87, Cl. D13-11.000.
Jagger, Vivienne D., to Little People Limited. Spoon. 292,960, 12-1-87, Cl. D7-137.000.
Jakob Maul GmbH: *See—*
Gohl, Gerhard, 288,672, Cl. D10-91.000.
Jakubek, John S. Artificial potted tree. 288,073, 2-3-87, Cl. D11-118.000.
James, Daryl R.; and James, Donald T. Combined shelter and comfort unit. 288,613, 3-3-87, Cl. D25-56.000.
James, Donald T.: *See—*
James, Daryl R.; and James, Donald T., 288,613, Cl. D25-56.000.
James River Corporation of Nevada: *See—*
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James River-Norwalk, Inc.: *See—*
Schulz, Galyn A.; Bredendick, Kenneth E.; Gooding, Chester W., Jr.; and Schumacker, Allen C., 288,150, Cl. D5-53.000.
Jameson, Frederick M. Smoke alarm cover. 290,098, 6-2-87, Cl. D10-121.000.
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Janda, George M., to GTE Communication Systems Corporation. Cabinet enclosure for central office telephone equipment. 287,675, 1-13-87, Cl. D6-432.000.
Jane, Ramon. Collapsible stroller. 288,678, 3-10-87, Cl. D12-129.000.

Janiszeski, Raymond C. Combined bottle cap and lift tab opener. 287,693, 1-13-87, Cl. D8-40.000.

Janke, Heinrich; Hengst, Alfred; and Uellenberg, Hans-Kurt, to Ernst Leitz Wetzlar G.m.b.H. Binocular. 292,412, 10-20-87, Cl. D16-133.000.

Jankewitz, Axel, to A. W. Faber-Castell GmbH & Co. Nail polish applicator. 289,088, 3-31-87, Cl. D28-7.000.

Jannard, James H., to Oakley, Inc. Sunglasses. 289,301, 4-14-87, Cl. D16-112.000.

Jannard, James H., to Oakley, Inc. Sunglasses. 293,450, 12-29-87, Cl. D16-102.000.

Janome Sewing Machine Co. Ltd.: *See—*
Amemiya, Masatomo, 288,691, Cl. D15-69.000.
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Kuroki, Nobufusa; and Ebata, Yoshikazu, 288,207, Cl. D15-70.000.
Kuroki, Nobufusa, 289,052, Cl. D15-69.000.
Kuroki, Nobufusa, 289,053, Cl. D15-69.000.
Kuroki, Nobufusa, 289,767, Cl. D15-69.000.
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Uchida, Koji, 289,654, Cl. D15-69.000.
Uchida, Koji, 290,261, Cl. D15-69.000.
Uchida, Koji, 290,711, Cl. D15-69.000.
Uchida, Koji, 292,588, Cl. D15-69.000.

Janowitz, C. Michael. Collapsible watering can or similar article. 293,017, 12-1-87, Cl. D23-212.000.

Jans, Franz W., to Jado Bathroom and Hardware Manufacturing Corp. Faucet set. 290,159, 6-2-87, Cl. D23-25.000.

Jans, Franz W., to Jado Bathroom and Hardware Manufacturing Corp. Faucet set. 291,233, 8-4-87, Cl. D23-25.000.

Janson, Mark: *See—*
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Jansson, Erik C.; Brunosson, Bengt B.; and Johansson, Jan-Erik, to Aktiebolaget Bahco Verktyg. Adjustable spanner wrench. 292,666, 11-10-87, Cl. D8-22.000.

Jansson, Staffan; Sandberg, Jan; Arvidson, Hakan; and Berglund, Svante, to Flakt Aktiebolag. Frame for dust filter bags. 289,813, 5-12-87, Cl. D32-30.000.

Japan Health Co., Ltd : *See—*
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Jarnum, Lennart, to AB Jarnkonstruktioner. Lifting appliance. 288,498, 2-24-87, Cl. D34-28.000.

Jarrin, Bud; and Jarrin, Jo-Anne, to Lever Brothers Company. Packaging container for food or the like. 291,285, 8-11-87, Cl. D9-429.000.

Jarrin, Jo-Anne: *See—*
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Jason, Donald M. Single slot bracket for cylindrical object. 289,732, 5-12-87, Cl. D8-356.000.

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Jacuzzi, Remo, 290,166, Cl. D23-42.000.
Jacuzzi, Remo, 290,167, Cl. D23-42.000.

Jasper, Robert S. Guitar pick. 291,809, 9-8-87, Cl. D17-20.000.

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Jefferies, George S. Snowplowable road marker. 288,792, 3-17-87, Cl. D10-113.000.

Jen, Yen-Shen. Engraver for finger ring and bracelet. 291,811, 9-8-87, Cl. D18-13.000.

Jenkins, Ian R.: *See—*
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Jenkins, Jimmy R. Combined hobby cabinet and workbench. 289,351, 4-21-87, Cl. D6-400.000.

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Jennette, Dale A. Baseball beverage selling cart. 290,539, 6-23-87, Cl. D34-13.000.

Jennings, Robert B. Pet house. 289,450, 4-21-87, Cl. D30-1.000.

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Jensen, Fritz. Airship toy balloon. 288,216, 2-10-87, Cl. D21-84.000.

Jensen, Magda G. Simulative doll bed. 291,334, 8-11-87, Cl. D21-121.000.

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Jermyn, Arthur C. Strainer for use in cleaning and sterilizing a plastic lens. 289,922, 5-19-87, Cl. D24-9.000.

Jermyn, Arthur C. Combined eye cup and eye drop dispenser cap. 293,474, 12-29-87, Cl. D24-66.000.

Jernander, Steve; and Clubb, Ardith A. Cap for bubble blowing. 292,641, 11-10-87, Cl. D2-244.000.

Jerome, Anthony F. Double basket fryer. 291,642, 9-1-87, Cl. D7-43.000.

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Jialanella, Cindy L.; Bishop, Willis E.; Chen, Tien-Tsung; and Hunter, Jeffrey C., to Avery Corporation. Tape dispenser package. 288,533, 3-3-87, Cl. D9-415.000.

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O'Neal, James M., 292,517, Cl. D18-30.000.
O'Neal, James M., 292,518, Cl. D18-30.000.

Jinotti, Walter J. Dual-purpose valve for a catheter. 288,963, 3-24-87, Cl. D24-53.000.

JMBL Corporation: *See—*
Hanson, Douglas M.; Hanson, Jeff D.; and Hanson, Brian E., 291,899, Cl. D21-23.000.

Joaquin, Jean. Bakery mold. 289,248, 4-14-87, Cl. D7-43.000.

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Joerger, Gerhard E. Faucet handle. 290,641, 6-30-87, Cl. D23-28.000.

Joerger, Gerhard E. Lighting fixture. 293,136, 12-8-87, Cl. D26-87.000.

Joerger, Gerhard E. Lighting fixture. 293,484, 12-29-87, Cl. D26-87.000.

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Giordano, Joseph J., Jr; Joffe, Richard M.; Loosme, Oskar; and Sylvester, Gordon E., 289,285, Cl. D14-54.000.

Johannsen, Donald R., to Carris, Bonnis S. Knife blade sharpener or the like. 287,815, 1-20-87, Cl. D8-93.000.

Johanson, Lars-Gunnar, to Watch Out Ltd. AB. Combined dispenser for tape and holder for note pads. 293,453, 12-29-87, Cl. D19-77.000.

Johansson, Inga-Lisa, to Industri AB Dahlstedt & Johansson. File cabinet. 288,639, 3-10-87, Cl. D6-448.000.

Johansson, Inga-Lisa, to Industri AB Dahlstedt & Johansson. Basket for memory discs with indexcards. 291,386, 8-18-87, Cl. D3-35.000.

Johansson, Jan E., to AB Electrolux. Rotisserie grill. 292,863, 11-24-87, Cl. D7-338.000.

Johansson, Jan-Erik: *See—*
Jansson, Erik C.; Brunosson, Bengt B.; and Johansson, Jan-Erik, 292,666, Cl. D8-22.000.

Johansson, Lars-Gunnar. Note pad holder. 288,826, 3-17-87, Cl. D19-78.000.

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John D. Brush & Co., Inc.: *See—*
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John Fluke Mfg. Co., Inc.: *See—*
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King, Indle G., 292,494, Cl. D10-57.000.
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John Gale Pty, Ltd.: *See—*
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John Manufacturing Limited: *See—*
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Yuen, John S., 290,817, Cl. D10-46.000.
Yuen, John S., 291,223, Cl. D22-123.000.
Yuen, John S., 291,224, Cl. D22-123.000.
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John O. Butler Company: *See—*
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Tarrson, Emanuel B.; Maric, Dane; and Kelly, Thomas P., 291,507, Cl. D4-104.000.

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Johns, David L., to Suncoast Medical Manufacturing, Inc. Extended illuminator. 290,405, 6-16-87, Cl. D26-37.000.

Johnson, Charles R., to Winner, James E. Automobile steering lock. 289,491, 4-28-87, Cl. D8-330.000.

Johnson, Chris G.: *See—*
Alterio, Frank C.; Genaro, Donald M.; Harden, Daniel; Johnson, Chris G.; McQueen, Edwin D.; and Mika, Paul L., 289,762, Cl. D14-101.000.

Johnson, Donald. Picture display. 290,428, 6-23-87, Cl. D6-301.000.

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Johnson, Edward M., Jr. Child's car seat. 288,036, 2-3-87, Cl. D6-333.000.

Johnson, Frederick C., Jr. Electrical guitar. 292,987, 12-1-87, Cl. D17-18.000.

Johnson, J. David; and Johnson, John D. Survey marker cap. 289,559, 5-19-87, Cl. D10-66.000.

Johnson, James; and Johnson, Edna M. Barbecue pit cover. 290,678, 7-7-87, Cl. D7-387.000.

Johnson, John D.: *See*—
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Grubb, Lawrence B.; and Kelly, Lois E., 291,122, Cl. D24-45.000.
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Williams, D. Michael; and Kelly, Lois E., 293,000, Cl. D21-65.000.
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Johnson & Johnson Dental Products Company: *See*—
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Blatherwick, William J.; Hamilton, Leslie; and Holewinski, Robert D., 287,875, Cl. D24-10.000.
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Holewinski, Robert D.; Hamilton, Leslie; and Blatherwick, William J., 288,481, Cl. D24-31.000.
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Johnson & Johnson Products Inc.: *See*—
Denny, Thomas, 291,732, Cl. D24-34.000.
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Johnson, Jon T. Drink cup holder for an automobile. 287,789, 1-20-87, Cl. D3-40.000.

Johnson, Leon W., Jr.; and Turner, Tomie L. Portable cart for automobile hardtop. 288,739, 3-10-87, Cl. D34-17.000.

Johnson Level & Tool Mfg. Co., Inc.: *See*—
Johnson, Robert A., 293,044, Cl. D3-30.100.
Johnson, William G.; and Clark, James L., 291,962, Cl. D8-95.000.

Johnson, Logan W.: *See*—
Carlson, Scott W.; Sembrowich, Walter L.; Knudson, Mark B.; Little, Richard L.; Eibensteiner, Ronald E.; Johnson, Logan W.; and Funk, Roger L., 288,478, Cl. D24-17.000.
Crawford, Dennis L.; and Johnson, Logan W., 289,180, Cl. D19-69.000.
Lee, David W.; and Johnson, Logan W., 292,401, Cl. D14-68.000.

Johnson, Richard A.: *See*—
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Johnson, Robert A., to Johnson Level & Tool Mfg. Co., Inc. Capped case for holding and transporting a carpenter's level. 293,044, 12-8-87, Cl. D3-30.100.

Johnson, Robert E. Picture frame. 287,793, 1-20-87, Cl. D6-303.000.

Johnson, Robert E., Jr. Tie-down hook. 289,853, 5-19-87, Cl. D8-382.000.

Johnson, Stanley A., to Vollrath Company, The. Spoon. 291,046, 7-28-87, Cl. D7-137.000.

Johnson, Stanley A., to Vollrath Company, The. Ladle. 292,663, 11-10-87, Cl. D7-104.000.

Johnson, Stanley A., to Vollrath Company, The. Turner. 293,295, 12-22-87, Cl. D7-102.000.

Johnson, Steven C.: *See*—
Collister, Kenneth D.; and Johnson, Steven C., 292,277, Cl. D10-46.000.

Johnson, William G.; and Clark, James L., to Johnson Level & Tool Mfg. Co., Inc. Hacksaw for hand use. 291,962, 9-22-87, Cl. D8-95.000.

Johnson, William M., to Ralph McKay Limited. Agricultural sweep. 288,689, 3-10-87, Cl. D15-29.000.

Johnson, William M., to Ralph McKay Limited. Adaptor for agricultural machine earth engaging implements. 292,587, 11-3-87, Cl. D15-28.000.

Johnston, Bart; and Johnston, Mary. Interchangeable tape cassette. 292,577, 11-3-87, Cl. D14-11.000.

Johnston, Douglas L.; Peterson, Scott J.; and Bales, John E., to Comtek Industries, Inc. Pedestal for computer monitors. 291,316, 8-11-87, Cl. D14-114.000.

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Johnston, Bart; and Johnston, Mary, 292,577, Cl. D14-11.000.

Jonas, Kenneth J.; Lazar, Ralph M.; and Wolbrink, David W., to Broan Mfg. Co., Inc. Combination deodorizer and light. 288,007, 1-27-87, Cl. D26-51.000.

Jonathan Bradley Pens, Inc.: *See*—
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Zucker, Richard G., 290,266, Cl. D19-69.000.
Zucker, Richard G., 291,704, Cl. D19-78.000.

Jones, A. Shepherd, III. Jacket. 292,341, 10-20-87, Cl. D2-187.000.

Jones, Alan B.: *See*—
Ching, Walter S.; Chu, Edward M.; Jones, Alan B.; Collins, Randall J.; Simon, Barry H.; and McCarty, Lyle H., 289,034, Cl. D13-35.000.

Jones, Amy T., executor: *See*—
Jones, James E., deceased; and Grime, Thomas E., 287,994, Cl. D23-18.000.

Jones, Arthur L.; and Landan, Ned, to Pelton & Crane Company, The. Corner module. 287,623, 1-6-87, Cl. D24-1.100.

Jones, Bryn. Rattle. 292,424, 10-20-87, Cl. D21-65.000.

Jones, Charles; Murphy, James L.; and Burks, Kenneth, to Sports Timer, Inc. Sports timer. 291,068, 7-28-87, Cl. D10-30.000.

Jones, Daniel A.: *See*—
Riordan, Michael E.; and Jones, Daniel A., 291,457, Cl. D21-37.000.

Jones, David A.: *See*—
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Jones, Doris R.: *See*—
Jones, William H.; and Jones, Doris R., 292,726, Cl. D21-185.000.

Jones, James E., deceased (by Jones, Amy T., executor); and Grime, Thomas E., to Champion Spark Plug Company. Paint cup yoke. 287,994, 1-27-87, Cl. D23-18.000.

Jones, Jane L., to Kimball International, Inc. Cabinet. 288,638, 3-10-87, Cl. D6-446.000.

Jones, Jerry Burnett: *See*—
Albright, Lawrence S., 291,280, Cl. D9-302.000.
Albright, Lawrence S., 291,964, Cl. D9-302.000.

Jones, Jerry W. Automatic telephone directory. 290,267, 6-9-87, Cl. D19-76.000.

Jones, Kirk H.: *See*—
Clark, Gary N.; Jones, Kirk H.; and Welburn, Edward T., Jr., 293,310, Cl. D12-90.000.

Jones, Lawrence T.; Lee, R. Stephen; Ishikawa, Paul J.; and Howden, Ashley G., to California R & D Center. Toy assault vehicle. 290,479, 6-23-87, Cl. D21-134.000.

Jones, Lawrence T.; Lee, R. Stephen; Ishikawa, Paul J.; and Howden, Ashley G., to California R & D Center. Folding toy play scene. 292,602, 11-3-87, Cl. D21-118.000.

Jones, Lonny R.: *See*—
Cahill, Bryan J.; and Jones, Lonny R., 292,140, Cl. D2-184.000.

Jones, Michael R.; and Jones, Samuel N. Shoe sole. 287,903, 1-27-87, Cl. D2-321.000.

Jones, Paul W.; and Merry, Rodney J., to Physio-Control Corporation. Defibrillator. 290,169, 6-2-87, Cl. D24-17.000.

Jones, Paul W.; and Bardue, Casey M., to Physio-Control Corporation. Defibrillator paddle. 290,396, 6-16-87, Cl. D24-17.000.

Jones, Paul W.; and Bardue, Casey M., to Physio-Control Corporation. Interfacing cassette for use with a defibrillator or the like. 291,121, 7-28-87, Cl. D24-17.000.

Jones, Paul W.; and Benson, James A., to Physio-Control Corporation. Electrocardiogram monitor for physiological condition. 291,244, 8-4-87, Cl. D24-17.000.

Jones, Robert D.; and Easley, James O. Aquarium. 288,735, 3-10-87, Cl. D30-9.000.

Jones, Robert E., Jr. Clean room entry-exit system. 290,290, 6-9-87, Cl. D23-140.000.

Jones, Samuel N.: *See*—
Jones, Michael R.; and Jones, Samuel N., 287,903, Cl. D2-321.000.

Jones, Sandra. Earring. 292,501, 10-27-87, Cl. D11-61.000.

Jones, Tommie J.; and Bradley, Janet. Brush. 289,463, 4-28-87, Cl. D14-117.000.

Jones, Virginia Leda: *See*—
Albright, Lawrence S., 291,280, Cl. D9-302.000.

Jones, Virginia Leola: *See*—
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Jones, William H.; and Jones, Doris R. Mayfly nymph. 292,726, 11-10-87, Cl. D21-185.000.

Jonsson, Jan; and Stromberg, Ernst A. O. Food processing device. 287,685, 1-13-87, Cl. D7-47.000.

Jonsson, Ralph: *See*—
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Jonsson, Ralph E.: *See*—
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Jonsson, Robert E. Snow ski. 291,344, 8-11-87, Cl. D21-229.000.

Joosten, Stefanus F. W., to U.S. Philips Corporation. Fluorescent lamp. 289,798, 5-12-87, Cl. D26-3.000.

Jordan, Robert A.; Hogan, Michael P.; and Mackay, Henry J., to Illinois Bell Telephone Company. Mobile lightguide cable access unit for testing, rearranging and powering optical fibers. 291,987, 9-22-87, Cl. D13-41.000.

Jordan, Willis Y., III; and Martin, Randall W., to International Business Machines Corporation. Printer cabinet. 289,650, 5-5-87, Cl. D14-111.000.

Jordan, Willis Y., III: *See*—
Anzelone, Thomas A.; Davis, Myron F.; and Jordan, Willis Y., III, 287,972, Cl. D14-100.000.

Anzelone, Thomas A.; and Jordan, Willis Y., III, 288,204, Cl. D14-100.000.

Davis, Myron F.; Goetz, Fred E.; Harris, James C.; Howell, Steven E.; Jordan, Willis Y., III; Lloyd, Robert W.; Martin, Randall W.; O'Connor, David F.; and Parker, Frederick, Jr., 288,094, Cl. D14-100.000.

Davis, Myron F.; Goetz, Fred E.; Howell, Steven E.; Jordan, Willis Y., III; Lloyd, Robert W.; and Parker, Frederick, Jr., 289,056, Cl. D14-100.000.

Davis, Myron F.; Jordan, Willis Y., III; Kraus, Walter F.; and Syler, Robert L., 293,443, Cl. D14-100.000.

Goetz, Fred E.; Harris, James C.; Howell, Steven E.; and Jordan, Willis Y., III, 288,876, Cl. D6-449.000.

Jordi, Urs M., to Altop S.A. Attachable watch. 292,677, 11-10-87, Cl. D10-31.000.

Jorgensen, Otto: *See*—
Logstrup, Jorgen; Madsen, Ole M.; and Jorgensen, Otto, 292,553, Cl. D8-366.000.

Jorgensen, Stig: *See*—
Bek, Helge S.; and Jorgensen, Stig, 288,061, Cl. D9-302.000.

Jorgensen, Susan D. Child's safety seat for use primarily in a shopping cart. 292,451, 10-27-87, Cl. D6-333.000.

Joseph, Jacob E. Support stand. 290,666, 7-7-87, Cl. D6-449.000.

Joseph, Jacob M. Hanger clip. 289,251, 4-14-87, Cl. D8-37.000.

Joss, Michael S.: *See*—
Goodrich, Gordon W.; and Joss, Michael S., 292,636, Cl. D32-22.000.
Marshall, Anne L.; and Joss, Michael S., 291,799, Cl. D14-11.000.

Jova, Henri V.: *See*—
League, Joseph C., Jr.; Terrell, Brian H.; and Jova, Henri V., 288,611, Cl. D25-26.000.

Joyaux, Yves; and Mandon, Jean-Pierre, to Reckitt & Colman AG. Air freshener. 292,311, 10-13-87, Cl. D23-366.000.

JRJ Industries: *See*—
Reynolds, James E., Jr., 290,334, Cl. D8-105.000.

Juaire, Phillip R.; and Tegg, Duane T., to Satellite Industries, Inc. Building door unit. 288,718, 3-10-87, Cl. D25-48.000.

Judd, Thomas W., to Curtis Manufacturing Company, Inc. Printer stand. 290,717, 7-7-87, Cl. D18-23.000.

Judge, Andrew. Vehicle steering wheel tray. 292,445, 10-27-87, Cl. D3-40.000.

Judy, John: *See*—
Goldman, Jerome; Goldman, Marvin; Philips, Gerald; and Judy, John, 290,127, Cl. D15-8.000.

Juergens, David A., to Rubbermaid Commercial Products Inc. Bucket. 292,836, 11-17-87, Cl. D32-53.000.

Juhas, Michael; and Manelli, Donald, to Insync, Inc. Film reel container. 288,983, 3-31-87, Cl. D3-35.000.

Julian, Randall K.; and Wright, David M., to Sunbeam Plastics Corporation. Bottle. 292,173, 10-6-87, Cl. D9-370.000.

Junes, Warren L. Strut for placement between the tire and fender of a motorcycle while being transported. 289,987, 5-26-87, Cl. D12-114.000.

Jung Corporation: *See*—
Meunchen, Paul K., 290,186, Cl. D3-9.000.

Jung, Kwan S. Combined picnic table and barbeque grill. 290,663, 7-7-87, Cl. D6-337.000.

Jungle Jap: *See*—
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Jureidini, Geoffrey N., to Allied Mills Industries Pty. Limited. Food product. 291,940, 9-22-87, Cl. D1-120.000.

Justiano, Joseph G.; and Bienwald, Wolfgang F., to Leviton Manufacturing Company, Inc. Electrical connector. 290,109, 6-2-87, Cl. D13-24.000.

Justiano, Joseph G.; and Bienwald, Wolfgang F., to Leviton Manufacturing Company, Inc. Electrical connector housing. 293,313, 12-22-87, Cl. D13-27.000.

Juy, Henri, to Etablissements le Simplex. Seat shaft for bicycles. 288,420, 2-24-87, Cl. D12-119.000.

Juy, Henri, to Etablissements le Simplex. Gear shift lever for bicycles. 290,831, 7-14-87, Cl. D12-179.000.

Juy, Henri, to Etablissements le Simplex. Bicycle rear derailleur. 292,503, 10-27-87, Cl. D12-124.000.

Juziuk, Jurgen A.: *See*—
Ryan, Desmond J.; Bumgardner, Donald L.; and Juziuk, Jurgen A., 288,323, Cl. D14-106.000.

K & D Plastics Inc.: *See*—
Fomby, Kenneth A., 288,988, Cl. D4-135.000.
Fomby, Kenneth A., 292,669, Cl. D8-359.000.

K-Jack Engineering Company, Inc.: *See*—
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Chalabian, Jack S., 289,664, Cl. D20-6.000.

K & K Manufacturing, Inc.: *See*—
Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 289,743, Cl. D10-73.000.
Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 290,094, Cl. D10-73.000.

Kaady, David G. Cap. 289,821, 5-19-87, Cl. D2-248.000.

Kaama Marine Engineering, Inc.: *See*—
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Kabishi Electric Co.: *See*—
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Kabushiki Kaisha Buncho: *See*—
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Kabushiki Kaisha Hirota: *See*—
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Hirota, Yoshio, 289,803, Cl. D27-40.000.
Hirota, Yoshio, 289,804, Cl. D27-40.000.
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Kabushiki Kaisha Nagaoka: *See*—
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Kabushiki Kaisha Nippon Coinco: *See*—
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Kobayashi, Osamu; Tanaka, Masanori; Akagawa, Masaki; and Yamagishi, Ryoji, 292,008, Cl. D20-9.000.
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Kabushiki Kaisha Shinsei Industries: *See*—
Fujita, Mituo, 292,006, Cl. D18-19.000.
Takahashi, Shoji, 292,102, Cl. D18-19.000.

Kabushiki Kaisha Shinwa: *See*—
Ohotani, Chogoroh, 292,067, Cl. D9-332.000.

Kabushiki Kaisha Suiden: *See*—
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Kabushiki Kaisha Taito: *See*—
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Hara, Kunio; and Hiroki, Shinichi, 288,568, Cl. D14-111.000.
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Ishii, Jun; and Yamamoto, Tokuzo, 288,439, Cl. D14-6.000.
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Kabushikikaisha Taikodenki Seisakusho: *See*—
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Kadaja, Thomas P. Rotary fingernail file. 290,533, 6-23-87, Cl. D3-59.000.

Kadomaru, Kazuo, to Sumitomo Rubber Industries, Ltd. Motorcycle tire. 288,915, 3-24-87, Cl. D12-147.000.

Kadomaru, Kazuo, to Sumitomo Rubber Industries, Ltd. Motorcycle tire. 292,787, 11-17-87, Cl. D12-147.000.

Kaeser, Charles, to P.F. Cosmetique S/A. Massager. 288,847, 3-17-87, Cl. D24-36.000.

Kaeser, Charles, to P.F. Cosmetique S/A. Handle for a massage instrument. 288,848, 3-17-87, Cl. D24-36.000.

Kahlcke, Hartwig, to Braun Aktiengesellschaft. Electric [illegible] machine. 288,517, 3-3-87, Cl. D7-309.000.

Kahlcke, Hartwig, to Braun Aktiengesellschaft. Electric [illegible] machine. 288,885, 3-24-87, Cl. D7-309.000.

Kahute, Robert M., to Warner Lambert Technologies, Inc. Vertical illuorescence microscope attachment. 290,128, 6-2-87, Cl. D16-131.000.

Kahute, Robert M., to Warner Lambert Technologies, Inc. Compound microscope stand and illuminator. 290,129, 6-2-87, Cl. D16-131.0

Kahute, Robert M., to Warner-Lambert Technologies, Inc. Microscope stand with a built-in illuminator. 291,702, 9-1-87, Cl. D16-131.0

Kain, James M., to Spalding & Evenflo Companies, Inc. Child's [illegible] seat. 289,830, 5-19-87, Cl. D6-333.000.

Kaji, Hikaru: *See*—
Ohsawa, Takao; Takayama, Hideki; Kaji, Hikaru; and Ohsawa, Hiroshi, 290,052, Cl. D32-6.000.

Kajita, Takashi, to Kabushiki Kaisha Toshiba. Telephone for automobiles. 289,283, 4-14-87, Cl. D14-53.000.

Kajita, Takashi, to Kabushiki Kaisha Toshiba. Combination handset stand mobile telephone unit. 291,564, 8-25-87, Cl. D14-53.000.

Kakiuchi, Yoshinori, to Fujitsu Limited. Keyboard. 293,243, 12-8-87, Cl. D14-114.000.

Kaku, Noriaki, to Matsushita Electric Industrial Co., Ltd. Telephone answering machine. 287,719, 1-13-87, Cl. D14-4.000.

Kaku, Noriaki, to Matsushita Electric Industrial Co., Ltd. Telephone answering machine. 287,970, 1-27-87, Cl. D14-4.000.

Kaku, Noriaki, to Matsushita Electric Industrial Co., Ltd. Handset stand telephone set. 289,642, 5-5-87, Cl. D14-53.000.

Kakuk, Jay J.: *See*—
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Kalani, James: *See*—
Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 289,743, Cl. D10-73.000.
Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 290,094, Cl. D10-73.000.

Kalbach, Edward V. L. Eyeglass side guard. 290,964, 7-21-87, Cl. D16-123.000.

Kalberer, Robert, to Industrial Machine Corporation. Handle for a hammer. 288,897, 3-24-87, Cl. D8-80.000.

Kaleskas, Edward, to Omni-Flow Associates Limited Partnership. Fluid cassette for multiple input infusion system. 290,656, 6-30-87, Cl. D24-53.000.

Kalichman, Melvin. Hair clip. 292,327, 10-13-87, Cl. D28-40.000.

Kalish, David. Kaleidoscope. 288,700, 3-10-87, Cl. D21-60.000.

Kamata, Tetsuya: *See*—
Ohtsuji, Tetsuo; and Kamata, Tetsuya, 289,282, Cl. D14-39.000.
Ohtsuji, Tetsuo; and Kamata, Tetsuya, 289,894, Cl. D14-39.000.

Kameda, Yasuhisa, to Daiwa Seiko, Inc. Reel for fishing. 291,472, 8-18-87, Cl. D22-141.000.

Kamensky, Howard S., to Quaker Oats Company, The. Toy container. 290,275, 6-9-87, Cl. D21-59.000.

Kamensky, Howard S., to Quaker Oats Company, The. Toy dashboard. 290,860, 7-14-87, Cl. D21-142.000.

Kameyama Candle Company Limited: *See*—
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Kamiyo, Takao, to Sumitomo Rubber Industries, Ltd. Motorcycle tire. 288,424, 2-24-87, Cl. D12-146.000.

Kaminski, Stephen H.: *See*—
Strousse, Babette L.; and Kaminski, Stephen H., 290,556, Cl. D6-349.000.
Strousse, Babette L.; and Kaminski, Stephen H., 290,664, Cl. D6-361.000.
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Strousse, Babette L.; and Kaminski, Stephen H., 291,510, Cl. D6-380.000.
Strousse, Babette L.; and Kaminski, Stephen H., 291,514, Cl. D6-487.000.
Strousse, Babette L.; and Kaminski, Stephen H., 291,516, Cl. D6-499.000.
Strousse, Babette L.; and Kaminski, Stephen H., 291,517, Cl. D6-500.000.
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Kamiya, Eiichi: *See*—
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Kamrath, Richard P.: *See*—
Rudell, Elliot A.; Cernansky, Joseph S.; and Kamrath, Richard P., 290,450, Cl. D12-108.000.

Kanamaru, Masahiko; and Takahashi, Osamu, to Yokohama Rubber Co., Ltd., The. Tire for automobiles. 293,426, 12-29-87, Cl. D12-143.000.

Kanazawa, Manabu: *See*—
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Hirooka, Junji; and Kanazawa, Manabu, 290,019, Cl. D18-7.000.

Kanda Tsushin Kogyo Co., Ltd.: *See*—
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Nogami, Kazutoshi; and Kato, Osamu, 290,117, Cl. D14-58.000.

Kando, Masahiro, to Canon Kabushiki Kaisha. Table for mounting telephone for facsimile. 289,116, 4-7-87, Cl. D6-474.000.

Kando, Masahiro, to Canon Kabushiki Kaisha. Handset telephone. 292,285, 10-13-87, Cl. D14-64.000.

Kando, Masahiro, to Canon Kabushiki Kaisha. Facsimile. 292,976, 12-1-87, Cl. D14-94.000.

Kane, Peter G.; LeMond, Frederick J.; and Biddlecom, Charles H., to Moore Business Forms, Inc. Data binder hanger. 288,573, 3-3-87, Cl. D19-91.000.

Kanellos, William, to HGK Advertising, Inc. Combined display and storage container for handkerchiefs, scarves or the like. 288,172, 2-10-87, Cl. D9-304.000.

Kang, Eui C. Tape measure. 288,300, 2-17-87, Cl. D10-72.000.

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Gamm, Robert J., 287,540, Cl. D2-309.000.
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Kanoui, Joseph, to Interdica S.A. Combined watch and bracelet. 288,066, 2-3-87, Cl. D10-32.000.

Kanoui, Joseph, to Interdica S.A. Spectacles. 292,983, 12-1-87, Cl. D16-102.000.

Kanoui, Joseph, to Interdica S.A. Spectacles. 293,251, 12-15-87, Cl. D16-102.000.

Kanowsky, Carl C. Sofa. 290,195, 6-9-87, Cl. D6-381.000.

Kanowsky Furniture, Inc.: *See*—
Friedman, Alan H., 289,832, Cl. D6-381.000.

Kaplan, Andrew J.: *See*—
Spinale, Charles E.; and Kaplan, Andrew J., 288,152, Cl. D6-380.000.

Kaplan, Jay A.; Place, Peter; and Wood, Harold G., to Honeywell Information Systems Inc. Desk mounted factory data collection terminal or similar article. 287,590, 1-6-87, Cl. D14-105.000.

Kaplan, Jay A.; Place, Peter; and Wood, Harold G., to Honeywell Information Systems Inc. Wall mounted factory data collection terminal or similar article. 287,591, 1-6-87, Cl. D14-105.000.

Kaplan, Robert S.; and Newton, Roy, to Kaplan, Robert S. Carrying case for a tripod or similar article. 288,864, 3-24-87, Cl. D3-73.000.

Kapper, Henry, to International Business Machines Corporation. Interactive graphics data terminal. 289,291, 4-14-87, Cl. D14-100.000.

Karamian, Narbik A., to Raf-Tan Inc. Faucet for protecting sterile fluid systems. 291,719, 9-1-87, Cl. D23-3.000.

Karamian, Narbik A., to Raf-Tan Inc. Microwave distillation apparatus. 293,128, 12-8-87, Cl. D23-207.000.

Karamian, Narbik A., to Raf-Tan Inc. Microwave distillation apparatus. 293,368, 12-22-87, Cl. D23-207.000.

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Karden, Karl G.; and Berger, Karl-Gustav, to Atlas Copco AG. Portable grinding machine. 288,768, 3-17-87, Cl. D8-62.000.

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Karlin, Jill A. Typeface. 292,988, 12-1-87, Cl. D18-27.000.

Karten, Stuart A., to American Hospital Supply Corporation. Contoured biopsy needle. 289,198, 4-7-87, Cl. D24-24.000.

Karubian, Ralph. Power saw handle. 291,276, 8-11-87, Cl. D8-107.000.

Kasagi, Taro; Tamada, Kenji; and Aoki, Hideo, to Silver Seiko Limited. Typewriter. 290,616, 6-30-87, Cl. D18-1.000.

Kasagi, Taro; Tamada, Kenji; and Aoki, Hideo, to Silver Seiko Limited. Typewriter. 291,323, 8-11-87, Cl. D18-1.000.

Kasai, Kazumi, to Yoshida Kogyo, K. K. Hanging hook or similar article for attachment to a carrying case. 289,733, 5-12-87, Cl. D8-373.000.

Kasai, Kazumi, to Nippon Notion Kogyo Co. Ltd. Belt adjuster. 290,349, 6-16-87, Cl. D11-218.000.

Kasai, Kazumi. Buckle. 291,668, 9-1-87, Cl. D11-216.000.

Kasai, Kazumi, to Nippon Notion Kogyo Co. Ltd. Belt buckle. 292,192, 10-6-87, Cl. D11-216.000.

Kasai, Kazumi, to Nippon Notion Kogyo Co. Ltd. Buckle. 292,898, 11-24-87, Cl. D11-216.000.

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Kasianowicz, John E.; and Landes, Michael L., to GTE Government Systems Corporation. Combined housing for bias components and connector therefor. 287,965, 1-27-87, Cl. D13-99.000.

Kaskel, Harold: *See*—
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Kasprzycki, Robert L., to American District Telegraph Company. Housing for an electronic push button dialer. 289,638, 5-5-87, Cl. D14-52.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Child's safety seat for an automobile. 287,670, 1-13-87, Cl. D6-333.000.

Kassai, Kenzou, to Aprica Kassai Kabushikikaisha. Child's safety seat for an automobile. 290,191, 6-9-87, Cl. D6-333.000.

Kassamali, Ali; and Kordenbrock, Robert H., to Procter & Gamble Company, The. Bottle. 292,070, 9-29-87, Cl. D9-404.000.

Kasuba, John A.; Kanne, John T.; Dhaliwal, Sajjan S.; and Purkapile, Emerson J., to Allegheny International Exercise Co. Exercise cycle. 289,669, 5-5-87, Cl. D21-194.000.

Kasuba, John A.; Kanne, John T.; Dhaliwal, Sajjan S.; and Purkapile, Emerson J., to Allegheny International Exercise Co. Exercise cycle. 289,670, 5-5-87, Cl. D21-194.000.

Kasuba, John A.; Kanne, John T.; Dhaliwal, Sajjan S.; and Purkapile, Emerson J., to Allegheny International Exercise Co. Exercise cycle. 290,282, 6-9-87, Cl. D21-194.000.

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Kato, Shigemasa; and Takada, Sanae, to Tokyo Juki Industrial Co., Ltd. Printer. 287,596, 1-6-87, Cl. D14-111.000.

Kato, Shigemasa; and Takada, Sanae, to Tokyo Juki Industrial Co., Ltd. Serial printer. 287,973, 1-27-87, Cl. D14-111.000.

Kato, Shigemasa; and Takada, Sanae, to Tokyo Juki Industrial Co., Ltd. Printer. 288,096, 2-3-87, Cl. D14-111.000.

Kato, Takaharu, to Ricoh Company, Ltd. Film winder for camera. 289,878, 5-19-87, Cl. D16-10.000.

Kato, Takaharu. Camera. 290,464, 6-23-87, Cl. D16-6.000.

Kato, Takaharu, to Ricoh Company, Ltd. Camera. 293,325, 12-22-87, Cl. D16-6.000.

Katoh, Mitsuo; and Amano, Hiroki, to Toyota Jidosha Kabushiki Kaisha. Radiator grille for an automobile. 287,843, 1-20-87, Cl. D12-163.000.

Katou, Fumihito; Nishiyama, Kazuhiko; Hiraoka, Kazuhiko; Itoh, Takao; and Tani, Sadao, to Hitachi, Ltd. Audio disc player. 289,947, 5-26-87, Cl. D14-14.000.

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Kaufman, Kurt, to TeleQuest, Inc. Receptacle for telephone handset. 291,309, 8-11-87, Cl. D14-65.000.

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Kawaguchi, Tsutomu, to Toyota Jidosha Kabushiki Kaisha. Front combination lamp for an automobile. 291,923, 9-15-87, Cl. D26-28.000.

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Kawai, Yuzo, to Kabushiki Kaisha Suiden. Combined ceiling fan and light. 290,748, 7-7-87, Cl. D23-158.000.

Kawai, Yuzo, to Kabushiki Kaisha Suiden. Ceiling fan. 292,313, 10-13-87, Cl. D23-377.000.

Kawajiri, Junichi; and Hayakawa, Toshio, to Bridgestone Corporation. Motorcycle tire. 287,952, 1-27-87, Cl. D12-136.000.

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Kawamoto, Kuniyuki; Kono, Yutaka; and Sai, Akihige, to Matsushita Electric Industrial Co., Ltd. Optical disc player. 289,154, 4-7-87, Cl. D14-1.000.

Kawano, Kazuhiko; Nomura, Toshihito; and Yamamoto, Juichi, to Pioneer Electronic Corporation. Disc player. 290,111, 6-2-87, Cl. D14-1.000.

Kawano, Kazuhiko; and Tsunetsugu, Toru, to Pioneer Ansafone Manufacturing Corporation. Combined telephone, automatic answering and recording machine. 290,353, 6-16-87, Cl. D14-52.000.

Kawano, Kazuhiko; and Tsunetsugu, Toru, to Pioneer Ansafone Manufacturing Corporation. Telephone set. 290,606, 6-30-87, Cl. D14-58.000.

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Kawaoka, Norihiko, to Mazda Motor Corporation. Automobile radiator grill. 293,230, 12-15-87, Cl. D12-163.000.

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Kawata, Yoshiaki; Yamamoto, Masaki; Uematsu, Toyoyuki; Tsubaki, Hiroyuki; and Itoh, Yutaka, to Matsushita Electric Industrial Co., Ltd. Combined telephone, clock, radio and television receiver. 290,958, 7-21-87, Cl. D14-79.000.

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Keeler, James M.; Grip, John A.; and Morris, Edward, to American Cyanamid Company. Combined dispensing container and solid stick product. 292,775, 11-17-87, Cl. D9-338.000.
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Keller, H. Thomas, to Bernhardt Industries. Table. 291,953, 9-22-87, Cl. D6-488.000.
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Kelley, Brenda; and Tong, James K., to Pensa, Inc. Shoe sole. 291,147, 8-4-87, Cl. D2-320.000.
Kelley, Brenda; and Curley, Jack, to AVIA Group International, Inc. Shoe sole. 291,945, 9-22-87, Cl. D2-320.000.
Kelley, Brenda, to AVIA Group International, Inc. Shoe sole. 292,242, 10-13-87, Cl. D2-320.000.
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Kelley, Brenda, to AVIA Group International, Inc. Shoe upper. 292,944, 12-1-87, Cl. D2-314.000.
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Kifer, Harlan E.; Litner, Richard C.; Megregian, Richard; and Moore, Michael G., to Chrysler Motors Corporation. Front control panel for a combined vehicular cassette player and radio receiver. 292,398, 10-20-87, Cl. D14-10.000.
Kiiski, Heikki, to Tunturipyora Oy. Rowing machine. 288,951, 3-24-87, Cl. D21-195.000.
Kiiski, Heikki, to Tunturipyora Oy. Ergometer. 291,713, 9-1-87, Cl. D21-195.000.
Kiiski, Heikki, to Tunturipyora OY. Exercise treadmill. 291,821, 9-8-87, Cl. D21-192.000.
Kijima, Seiichi; and Miura, Yoshihiro, to Masudaya Corporation. Battery operated bird figures toy. 292,111, 9-29-87, Cl. D21-160.000.
Kikkawa, Hiroshi: *See—*
Umezu, Mitsuhiro; Nakajima, Tooru; Kikkawa, Hiroshi; and Miyazaki, Mamoru, 293,317, Cl. D14-52.000.
Kikuchi, Hideto: *See—*
Matsumoto, Kintaro; Kato, Mitsuo; and Kikuchi, Hideto, 287,844, Cl. D12-184.000.
Matsumoto, Kintaro; Kato, Mitsuo; and Kikuchi, Hideto, 287,845, Cl. D12-184.000.
Kikuchi, Junji: *See—*
Miura, Takeo; and Kikuchi, Junji, 290,824, Cl. D12-110.000.
Kikuchi, Katsutoshi, to Sony Corporation. Reel hub for magnetic tape cassette or the like. 289,517, 4-28-87, Cl. D14-10.000.
Kikuchi, Katsutoshi, to Sony Corporation. Reel hub for magnetic tape cassette or the like. 289,518, 4-28-87, Cl. D14-10.000.
Kikuchi, Katsutoshi, to Sony Corporation. Case for a magnetic tape cassette or the like. 291,024, 7-28-87, Cl. D3-35.000.
Kikuchi, Nobuo; and Fushimoto, Hideo, to Canon Kabushiki Kaisha. Desk-top electronic calculator. 289,415, 4-21-87, Cl. D18-7.000.
Kikuchi, Nobuo; and Odagawa, Kazuyoshi, to Canon Kabushiki Kaisha. Desk-top electronic calculator. 289,903, 5-19-87, Cl. D18-7.000.
Kikutani, Fumitaka, to Sony Corporation. Headphone. 292,205, 10-6-87, Cl. D14-36.000.
Kilgore, Alice A. Toy mouse. 289,189, 4-7-87, Cl. D21-188.000.
Kilman, Brenda J.; and Cowart, Betty J. Appliance for smoothing fiber applied to fingernails. 291,930, 9-15-87, Cl. D28-59.000.
Kim, Bonjue. Ratchet wrench. 292,771, 11-17-87, Cl. D8-25.000.
Kim, Hyun S., to Airway Industries, Inc. Luggage case. 292,845, 11-24-87, Cl. D3-48.000.
Kim, Hyun S., to Airway Industries, Inc. Luggage case. 292,846, 11-24-87, Cl. D3-48.000.
Kim, Hyun S., to Airway Industries, Inc. Attache case. 292,848, 11-24-87, Cl. D3-76.000.
Kim, Soo D.: *See—*
Chang, Youn H.; and Kim, Soo D., 291,202, Cl. D14-113.000.
Kim, Syng N., to Wico Distribution Company, L.P. Combined trackball and mouse. 291,318, 8-11-87, Cl. D14-114.000.
Kim, Syng N., to Wico Distribution Company, L.P. Keyboard including trackball. 291,574, 8-25-87, Cl. D14-100.000.
Kim, Syng N.: *See—*
Burnstein, Philip J.; and Kim, Syng N., 289,306, Cl. D21-48.000.
Burnstein, Philip J.; and Kim, Syng N., 292,927, Cl. D14-114.000.
Kim, Young O. Mug. 293,290, 12-22-87, Cl. D7-8.000.
Kim, Young S., to Daewoo Electronics Co., Ltd. Ultrasonic humidifier. 288,596, 3-3-87, Cl. D23-146.000.
Kim, Young S., to Daewoo Electronics Co., Ltd. Vacuum cleaner. 290,896, 7-14-87, Cl. D32-24.000.
Kim, Young S., to Daewoo Electronics Co., Ltd. Food processor. 293,071, 12-8-87, Cl. D7-384.000.
Kim, Young S., to Daewoo Electronics Co., Ltd. Food processor. 293,195, 12-15-87, Cl. D7-384.000.
Kimba Corp.: *See—*
DeVito, Richard, 290,071, Cl. D6-482.000.
Kimball International, Inc.: *See—*
Jones, Jane L., 288,638, Cl. D6-446.000.
Kimball, James F. Rope tie down device. 289,373, 4-21-87, Cl. D8-382.000.
Kimberly-Clark Corporation: *See—*
Fischer, Danial O.; and Cook, Ronald F., 289,140, Cl. D8-373.000.
Payne, Calvin L., Jr.; Ingersoll, Brian E.; and Burns, Kickey D., 288,161, Cl. D6-522.000.
Kimble, David K. Horse feeder. 287,771, 1-13-87, Cl. D30-13.000.
Kinderworks Corporation: *See—*
Spinale, Charles E.; and Kaplan, Andrew J., 288,152, Cl. D6-380.000.
King, Charles B. Gun rack. 290,907, 7-21-87, Cl. D3-38.000.
King, Eddie W.; Duke, Herman K.; and Summerville, Don S., to Coca-Cola Company, The. Vending machine. 288,574, 3-3-87, Cl. D20-5.000.
King, Eddie W.: *See—*
Brandes, John H.; King, Eddie W.; and Summerville, Don S., 290,619, Cl. D20-5.000.
Morgan, Annis R., Jr.; King, Eddie W.; Brandes, J. Henry; and Lettera, James N., 292,993, Cl. D20-5.000.
King, Indle G., to John Fluke Mfg. Co., Inc. Digital electronic thermometer or similar article. 292,493, 10-27-87, Cl. D10-57.000.
King, Indle G., to John Fluke Mfg. Co., Inc. Digital electronic thermometer or similar article. 292,494, 10-27-87, Cl. D10-57.000.
King, Indle G.: *See—*
McCain, George L.; and King, Indle G., 289,504, Cl. D10-78.000.
Kingston, James E., to Hollibaugh Manufacturing Company, Inc. Water pumping, heating and aerating mechanism for tubs and the like. 292,214, 10-6-87, Cl. D15-7.000.
Kinneir, John R.: *See—*
Martensson, Nils E. V.; Runnalls, John J.; Paver, Keith; Kinneir, John R.; and Wightman, Craig I., 289,896, Cl. D14-53.000.
Kinoshita, Seiji: *See—*
Shibayama, Masato; Kinoshita, Seiji; Murata, Atsushi; and Hasegawa, Toshiyuki, 289,895, Cl. D14-53.000.
Kipperman, Stuart: *See—*
Bruno, Robert H.; Burger, Laurie J.; Kipperman, Stuart; Mayer, Geoffrey R.; Protzmann, Donald E.; and Uhl, Robert F., 293,215, Cl. D10-57.000.
Kira, Hiroshi. Lighting fixture. 290,754, 7-7-87, Cl. D26-24.000.
Kiraly, Benedikt. Tennis racket. 291,222, 8-4-87, Cl. D21-212.000.
Kirch, Edward M. Combined computer cabinet and desk. 289,715, 5-12-87, Cl. D6-425.000.
Kirchner, Balthasar, to Ernst Stadelmann Gesellschaft m.b.H. Dual tray storage bin. 290,059, 5-26-87, Cl. D34-46.000.
Kirk, Alexis V., to Somersett Moon Ltd. Necklace. 292,896, 11-24-87, Cl. D11-11.000.
Kirkpatrick, Herman G. Tweezer. 292,031, 9-22-87, Cl. D28-55.000.
Kirsch, Jacques M. Shotgun shell dismantler. 289,316, 4-14-87, Cl. D22-199.000.
Kirstine/Hendricks: *See—*
Clover, William M., Jr., 289,978, Cl. D9-398.000.
Kissel, James P.: *See—*
Kean, David P.; and Kissel, James P., 292,639, Cl. D34-15.000.
Kita, Yoshiyuki: *See—*
Yasui, Harumoto; Kita, Yoshiyuki; and Bellini, Mario, 290,116, Cl. D14-53.000.
Kitada, Fumihiko: *See—*
Okamoto, Kenzo; Nishikawa, Hideo; Sakai, Koichi; and Kitada, Fumihiko, 288,232, Cl. D23-122.000.
Okamoto, Kenzo; Kitada, Fumihiko; and Yoshikado, Jun, 289,847, Cl. D7-363.000.
Kitagawa Industries Co., Ltd.: *See—*
Hayashi, Yoshitoki, 292,871, Cl. D8-354.000.
Nakano, Yoshihito, 291,408, Cl. D8-325.000.
Nakano, Yoshihito, 293,205, Cl. D8-395.000.
Nakano, Yoshihito, 293,207, Cl. D8-396.000.
Takahashi, Katsumasa, 291,530, Cl. D8-325.000.
Takahashi, Katsumasa, 292,872, Cl. D8-354.000.
Yagi, Masaru, 291,407, Cl. D8-325.000.
Yagi, Masaru, 292,554, Cl. D8-396.000.
Kitahashi, Seiichiro, to Toyota Jidosha Kabushiki Kaisha. Front bumper for an automobile. 291,075, 7-28-87, Cl. D12-169.000.
Kitamura, Akio, to Takara Co., Ltd. Reconfigurable toy boat. 290,481, 6-23-87, Cl. D21-150.000.

Kitamura, Akio, to Takara Co., Ltd. Reconfigurable toy tank. 290,630, 6-30-87, Cl. D21-150.000.

Kitamura, Akio, to Takara Co., Ltd. Reconfigurable toy vehicle. 290,723, 7-7-87, Cl. D21-150.000.

Kitamura, Akio, to Takara Co., Ltd. Reconfigurable toy vehicle. 291,461, 8-18-87, Cl. D21-150.000.

Kitani, Natsu; Mishiro, Benito; and Sugiyama, Yoshihiko, to Matsushita Electric Industrial Co., Ltd. Combined printer and memory capacity expander for a computer. 292,405, 10-20-87, Cl. D14-111.000.

Kitate Sangyo Co., Inc.: *See*—
Yamaguchi, Isaburo, 289,321, Cl. D23-127.000.
Yamaguchi, Isaburo, 289,322, Cl. D23-127.000.
Yamaguchi, Isaburo, 289,323, Cl. D23-127.000.
Yamaguchi, Isaburo, 289,324, Cl. D23-127.000.

Kitchen, Robert J. Plant stake. 292,475, 10-27-87, Cl. D8-1.000.

Kitchens, David G., to Zimmer, Inc. Combined driver and extractor for intramedullary pins or the like. 290,399, 6-16-87, Cl. D24-26.000.

Kittrell, Wiley A.: *See*—
Trezise, Richard D.; and Kittrell, Wiley A., 290,119, Cl. D14-76.000.

Kiwi Polish Company Pty. Ltd., The: *See*—
Pataki, Robert, 292,884, Cl. D9-373.000.

Kwong Pty. Limited: *See*—
Howlett, Leon, 288,349, Cl. D23-19.000.

Kiyota, Hiroyuki. Bicycle pedal. 292,075, 9-29-87, Cl. D12-125.000.

Kiyota, Toru: *See*—
Aoki, Takao; Kiyota, Toru; Takahashi, Akemi; Tanaka, Ryuichiro; Kogane, Hiroyuki; Higashihara, Toru; Kawaguchi, Mitsuo; and Kashima, Taisuke, 289,161, Cl. D14-82.000.
Ariyoshi, Tsukasa; Aoki, Takao; Tsuburaya, Kazuyuki; Kiyota, Toru; Tanaka, Ryuichiro; and Takahashi, Akemi, 291,572, Cl. D14-81.000.

Klagenberg, Niels, and Christensen, Bjorn C., to ISS Clorius International a.s. Temperature measurement housing. 287,702, 1-13-87, Cl. D10-60.000.

Klamer, Reuben B., to Quaker Oats Company, The. Roller skate. 287,990, 1-27-87, Cl. D21-226.000.

Klamer, Reuben B., to Quaker Oats Company, The. Roller skate. 288,109, 2-3-87, Cl. D21-226.000.

Klamer, Reuben B., to Quaker Oats Company, The. Roller skate. 288,225, 2-10-87, Cl. D21-226.000.

Klamer, Reuben B., to Quaker Oats Company, The. Roller skate. 289,074, 3-31-87, Cl. D21-226.000.

Klapperich, Leo, to Werkzeug GmbH. Drill clamp. 288,405, 2-24-87, Cl. D8-72.000.

Klapperich, Leo, to Werkzeug GmbH. Paint mixer. 290,084, 6-2-87, Cl. D8-14.000.

Klassen, Edward J.: *See*—
Young, Leon; and Klassen, Edward J., 289,772, Cl. D16-44.000.

Klasson, Jan: *See*—
Andersson, Roger; Engdahl, Lennart; and Klasson, Jan, 289,524, Cl. D15-17.000.

Klawitter, Ronald R., to Handi-Pac, Inc. Simulative toy vehicle. 291,332, 8-11-87, Cl. D21-76.000.

Klein, Anton. Chair. 288,748, 3-17-87, Cl. D6-375.000.

Klein, Colleen J.: *See*—
Arato, Paul T., 289,346, Cl. D6-310.000.

Klemans, Henri. Doll. 292,810, 11-17-87, Cl. D21-148.000.

Klenetsrud, Dorothy. Clothes hanger. 289,829, 5-19-87, Cl. D6-319.000.

Klemm, Richard O. Seed germinator or similar article. 291,979, 9-22-87, Cl. D11-145.000.

Klette, John T.; Smith, Harry O.; and Bruns, Eugene C., to Mobil Oil Corporation. Oil container. 291,658, 9-1-87, Cl. D9-352.000.

Kline, Jeffrey L.; and Koprowski, Stanley E., to International Business Machines Corporation. Interface housing for data processing system. 289,294, 4-14-87, Cl. D14-114.000.

Kline, Jeffrey L.: *See*—
Giannoti, Vincent, Jr.; Kline, Jeffrey L.; and Parks, Harville M., 288,929, Cl. D14-111.000.

Kling, John E.: *See*—
Millerd, Donald L.; Alpert, Robert S.; and Kling, John E., 293,129, Cl. D24-53.000.

Klober GmbH & Co.: *See*—
Vogtherr, Burkhard, 289,478, Cl. D6-495.000.
Vogtherr, Burkhard, 290,321, Cl. D6-500.000.

Klodt, Gerald J., to W. T. Rogers Company. Card file. 288,938, 3-24-87, Cl. D19-76.000.

Klodt, Gerald J., to W. T. Rogers Company. Letter tray drawer. 289,061, 3-31-87, Cl. D19-92.000.

Knackstedt, Harold A. Colostomy irrigation unit. 287,768, 1-13-87, Cl. D24-56.000.

Knapp, Kevin K.: *See*—
Senecal, Marc J.; and Knapp, Kevin K., 293,499, Cl. D32-49.000.

Kneale, Collan B.: *See*—
Kelley, Ted F., Jr.; Kneale, Collan B.; and Marklin, Richard W., Jr., 290,123, Cl. D14-102.000.

Knebel & Rottger GmbH & Co.: *See*—
Koch, Karl-Erich, 289,545, Cl. D23-35.000.

Knickerbocker, Robert H.; and Thomas, Stephen M., to Siemon Company, The. Modular test plug adapter. 290,249, 6-9-87, Cl. D13-24.000.

Knickerbocker, Robert H., to Siemon Company, The. Combined eight conductor modular plug and test adapter. 290,352, 6-16-87, Cl. D13-28.000.

Knight, Elizabeth, to Hasbro Industries, Inc. Toy pony. 291,103, 7-28-87, Cl. D21-165.000.

Knight, James L., and Bidwell, Christopher C. Carpet display stand. 287,913, 1-27-87, Cl. D6-409.000.

Knight, James L.; and Bidwell, Christopher C. Carpet display stand. 292,954, 12-1-87, Cl. D6-409.000.

Knight, James L. Carpet display stand. 292,955, 12-1-87, Cl. D6-409.000.

Knight, Jeffrey E.: *See*—
Morris, Reny G., 291,166, Cl. D6-476.000.

Knight, Willard C. Cigarette lighter holder. 287,786, 1-20-87, Cl. D3-106.000.

Knipe, Curtis L.: *See*—
Hardenbergh, James S.; Knipe, Curtis L.; and Stuesser, William R., 292,769, Cl. D7-409.000.

Knochner, Michael: *See*—
Stutzer, Franz A.; and Knochner, Michael, 287,808, Cl. D7-330.000.
Stutzer, Franz A.; and Knochner, Michael, 288,164, Cl. D7-309.000.
Stutzer, Franz A.; and Knochner, Michael, 290,676, Cl. D7-384.000.
Stutzer, Franz A.; and Knochner, Michael, 290,677, Cl. D7-384.000.
Stutzer, Franz A.; and Knochner, Michael, 290,888, Cl. D32-70.000.
Stutzer, Franz A.; and Knochner, Michael, 290,891, Cl. D32-70.000.

Knoll International, Inc.: *See*—
Hannah, Bruce P.; McClanahan, David D.; and Denny, Lee, 293,314, Cl. D13-40.000.
Venturi, Robert, 287,798, Cl. D6-498.000.

Knotter, Willem F. Game board. 291,328, 8-11-87, Cl. D21-32.000.

Knowlton, Christopher M.; and O'Hara, Robert J., to AAR Brooks & Perkins Corp. Machine for floor sweeping and scrubbing. 291,932, 9-15-87, Cl. D32-4.000.

Knudsen, Jens N.; and Pedersen, Niels M., to Interlego A.G. Toy building element. 290,475, 6-23-87, Cl. D21-108.000.

Knudsen, Jens N., to Interlego A.G. Toy building piece. 290,626, 6-30-87, Cl. D21-108.000.

Knudsen, Jens N., to Interlego A.G. Toy building block. 291,100, 7-28-87, Cl. D21-108.000.

Knudsen, Jens N.; and Krentz, Daniel A., to Interlego A.G. Toy construction piece. 291,101, 7-28-87, Cl. D21-108.000.

Knudson, Mark B.; Sembrowich, Walter L., Carlson, Scott W.; Little, Richard L.; Eibensteiner, Ronald E.; and Baker, Richard W., to Arden Medical Systems, Inc. Disposable sensor card with receptacle and electrode sensors for chemical analysis of biological fluids. 292,229, 10-6-87, Cl. D24-21.000.

Knudson, Mark B.: *See*—
Carlson, Scott W.; Sembrowich, Walter L.; Knudson, Mark B.; Little, Richard L.; Eibensteiner, Ronald E.; Johnson, Logan W.; and Funk, Roger L., 288,478, Cl. D24-17.000.

Knutson, Ken M. Spare tire mounting bracket. 292,690, 11-10-87, Cl. D12-202.000.

Knutson, Robert C.: *See*—
Bonnema, Robert W.; Knutson, Robert C.; and Pasquarette, Ralph E., 293,421, Cl. D10-50.000.

Ko, Hsi C. Faucet handle. 290,164, 6-2-87, Cl. D23-29.000.

Ko, Hsi Chia. Faucet handle. 290,389, 6-16-87, Cl. D23-29.000.

Kobata, Yoshiro, to Nissan Motor Co., Ltd. Combined automobile taillight lens and cover. 289,087, 3-31-87, Cl. D26-120.000.

Kobayashi, Fumiyuki, to NEC Corporation. Combined carrying case and battery pack for a cordless telephone set. 292,975, 12-1-87, Cl. D14-65.000.

Kobayashi, Kouichi: *See*—
Nakao, Shinroku; Kobayashi, Kouichi; Ishii, Yoshiyasu; and Matsuda, Hiroaki, 288,544, Cl. D12-129.000.

Kobayashi, Osamu; Akagawa, Masaki; and Hayashi, Hiroshi, to Kabushiki Kaisha Nippon Coinco. Bill validator. 288,377, 2-17-87, Cl. D99-28.000.

Kobayashi, Osamu; Akagawa, Masaki; and Hayashi, Hiroshi, to Kabushiki Kaisha Nippon Coinco. Bill validator. 288,378, 2-17-87, Cl. D99-28.000.

Kobayashi, Osamu; Tanaka, Masanori; Akagawa, Masaki; and Yamagishi, Ryoji, to Kabushiki Kaisha Nippon Coinco. Coin selector for automatic vendor. 292,008, 9-22-87, Cl. D20-9.000.

Kobayashi, Osamu; Tanaka, Masanori; Akagawa, Masaki; and Yamagishi, Ryoji, to Kabushiki Kaisha Nippon Coinco. Regulator of coin selector for automatic vendor. 293,454, 12-29-87, Cl. D20-8.000.

Kobayashi, Tetsuro: *See*—
Hayakawa, Toshio; and Kobayashi, Tetsuro, 292,080, Cl. D12-146.000.

Kobishi Electric Co., Ltd.: *See*—
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Kobiyama, Makoto: *See*—
Kojima, Nobuyuki; Sekigawa, Youichi; and Kobiyama, Makoto, 287,752, Cl. D23-127.000.
Kojima, Nobuyuki; Sekigawa, Youichi; and Kobiyama, Makoto, 291,726, Cl. D23-127.000.

Kobos, Duane M., to Dwyer Instruments, Inc. Mounting clip for flowmeters. 287,703, 1-13-87, Cl. D10-103.000.

Koch, Adolf, to Sport-Service-Lorinser Sportliche Autoausrustung GmbH. Automobile spoiler. 289,752, 5-12-87, Cl. D12-181.000.

Koch, Adolf, to Sport-Service-Lorinser Sportliche Autoausrustung GmbH. Rear spoiler-bumper. 292,788, 11-17-87, Cl. D12-181.000.

Koch, Adolf, to Sport-Service-Lorinser Sportliche Autoausrustung GmbH. Rear spoiler. 292,789, 11-17-87, Cl. D12-181.000.
Koch, Adolf, to ATG Autoteile-Grosshandel GmbH. Spoiler. 292,791, 11-17-87, Cl. D12-181.000.
Koch, Karl-Erich, to Knebel & Rottger GmbH & Co. Handshower. 289,545, 4-28-87, Cl. D23-35.000.
Kochevar, James W.: *See*—
Sutou, Masatoki; Maeda, Yutaka; Anderson, Walter F., Jr.; and Kochevar, James W., 293,390, Cl. D3-35.000.
Kochie, Patrick S.: *See*—
Richmond, Moscow K.; Richmond, Thomas R.; and Kochie, Patrick S., 292,282, Cl. D14-56.000.
Kodera, Kimio, to Platinum Pen Co., Ltd. Cap for writing instruments. 291,452, 8-18-87, Cl. D19-57.000.
Koeck, Rainer, to Werner & Mertz G m.b.H. Combined container and applicator for polish in the form of paste. 290,088, 6-2-87, Cl. D9-338.000.
Koester, Betty L.; and Adler, Janet F. Boy clown rag doll. 290,862, 7-14-87, Cl. D21-173.000.
Koester, Betty L.; and Adler, Janet F. Girl clown rag doll. 291,104, 7-28-87, Cl. D21-173.000.
Kogane, Hiroyuki: *See*—
Aoki, Takao; Kiyota, Toru; Takahashi, Akemi; Tanaka, Ryuichiro; Kogane, Hiroyuki; Higashihara, Toru; Kawaguchi, Mitsuo; and Kashima, Taisuke, 289,161, Cl. D14-82.000.
Koh-I-Noor Rapidograph, Inc.: *See*—
Bruhn, Bernhard, 287,603, Cl. D19-48.000.
Kohl, Kathleen M. Signal light lens. 291,420, 8-18-87, Cl. D10-114.000.
Kohler Co.: *See*—
Davis, William R., 289,543, Cl. D23-29.000.
Doman, Donald W., 289,544, Cl. D23-28.000.
Gates, Jon G.; Kolada, Paul P.; and Valentino, Michael W., 292,732, Cl. D23-292.000.
Kohler, Herbert V., Jr.; and Wildgen, Leo F., 290,163, Cl. D23-29.000.
Kohler, Herbert V., Jr., 292,431, Cl. D23-301.000.
Kolada, Paul P., 289,077, Cl. D23-32.000.
Kolada, Paul P., 292,609, Cl. D23-294.000.
Peck, Martin J., 288,921, Cl. D13-35.000.
Kohler, Herbert V., Jr.; and Wildgen, Leo F., to Kohler Co. Plumbing fitting handle. 290,163, 6-2-87, Cl. D23-29.000.
Kohler, Herbert V., Jr., to Kohler Co. Water closet. 292,431, 10-20-87, Cl. D23-301.000.
Koida, Kazushi: *See*—
Nakazawa, Hiroshi; and Koida, Kazushi, 287,976, Cl. D16-1.000.
Koivisto, Mark. Trampoline. 291,712, 9-1-87, Cl. D21-191.000.
Koizumi, Hiroshi: *See*—
Takahashi, Seigo; Nishimura, Takeji; and Koizumi, Hiroshi, 288,814, Cl. D14-100.000.
Kojima, Fumiyo, to Ricoh Company, Ltd. Facsimile transceiver/-receiver. 289,048, 3-31-87, Cl. D14-94.000.
Kojima, Hiroshi; Nishio, Hideaki; and Karato, Kenji, to Bridgestone Corporation. Automobile tire. 288,548, 3-3-87, Cl. D12-147.000.
Kojima, Hiroshi: *See*—
Kawajiri, Junichi; and Kojima, Hiroshi, 289,150, Cl. D12-140.000.
Kojima, Nobuyuki; Sekigawa, Youichi; and Kobiyama, Makoto, to Toshiba Heating Appliances Co., Ltd. Heating chamber for a portable heater. 287,752, 1-13-87, Cl. D23-127.000.
Kojima, Nobuyuki; Sekigawa, Youichi; and Kobiyama, Makoto, to Toshiba Heating Appliances Co., Ltd. Grid-like guard for the front of a portable heater. 291,726, 9-1-87, Cl. D23-127.000.
Kojima, Tatsuo; and Yomo, Takashi, to Canon Kabushiki Kaisha. Laser beam printer. 287,730, 1-13-87, Cl. D14-111.000.
Kojima, Tatsuo, to Canon Kabushiki Kaisha. Microfilm reader. 288,330, 2-17-87, Cl. D16-11.000.
Kojima, Tatsuo, to Canon Kabushiki Kaisha. Microfilm reader printer. 288,333, 2-17-87, Cl. D16-28.000.
Kojima, Tatsuo, to Canon Kabushiki Kaisha. Microfilm scanner. 291,321, 8-11-87, Cl. D16-14.000.
Kokoszka, Stephen A.: *See*—
Albertini, Rocco D.; McClellan, Arthur W.; Kokoszka, Stephen A.; and Girten, Patrick C., 290,947, Cl. D12-215.000.
Kolada, Paul P., to Kohler Co. Plumbing spout. 289,077, 3-31-87, Cl. D23-32.000.
Kolada, Paul P., to Kohler Co. Lavatory. 292,609, 11-3-87, Cl. D23-294.000.
Kolada, Paul P.: *See*—
Gates, Jon G.; Kolada, Paul P.; and Valentino, Michael W., 292,732, Cl. D23-292.000.
Kolb, Richard P.: *See*—
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Kolomeyer, Norton. Walking stick or similar article. 292,346, 10-20-87, Cl. D3-7.000.
Kolonia, Robert A. Tool handle. 291,862, 9-15-87, Cl. D8-107.000.
Kolonia, Robert A. Tool handle. 291,863, 9-15-87, Cl. D8-107.000.
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Komar, Michael N., to TI Russell Hobbs Limited. Stand for a pressing iron. 291,132, 7-28-87, Cl. D32-73.000.
Komatsu, Jun, to Citizen Watch Co., Ltd. Watch case. 290,236, 6-9-87, Cl. D10-38.000.
Komatsu, Jun, to Citizen Watch Co., Ltd. Watch case. 290,347, 6-16-87, Cl. D10-38.000.
Komatsu, Jun, to Citizen Watch Co., Ltd. Liquid crystal display panel. 290,587, 6-30-87, Cl. D10-125.000.
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Kone Instruments Inc.: *See*—
Tong, Peter P., 290,400, Cl. D24-29.000.
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Konen, Daniel T.; and Schinella, John R., to General Motors Corporation. Combined spoiler and light. 290,453, 6-23-87, Cl. D12-181.000.
Konen, Daniel T.; and Schinella, John R., to General Motors Corporation. Combined spoiler and stop lamp. 290,455, 6-23-87, Cl. D12-181.000.
Kong, Stanley Y.: *See*—
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Konishi, Kazuhiro: *See*—
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Konishi, Tadahiro; and Misaka, Koichi, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,426, 2-24-87, Cl. D12-147.000.
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Koob, Gunter H., to Electron Corporation (AUST.) Pty. Ltd. Intercom door answering unit. 289,754, 5-12-87, Cl. D14-92.000.
Koob, Gunter H., to Electron Corporation (AUST.) Pty. Ltd. Intercom master control unit. 289,758, 5-12-87, Cl. D14-92.000.
Koob, Gunter H., to Electron Corporation (AUST.) Pty. Ltd. Intercom room station unit. 289,759, 5-12-87, Cl. D14-92.000.
Koonts, Dan; and Truette, Dan, to Pelton & Crane Company, The. Amalgamator. 287,759, 1-13-87, Cl. D24-10.000.
Koopman, Peter J., to Henny Penny Corporation. Cabinet. 288,877, 3-24-87, Cl. D6-445.000.
Koosman, Walter G. Wire puzzle. 292,809, 11-17-87, Cl. D21-106.00.
Kopp, Larry S.: *See*—
Wan, Anthony W.; and Kopp, Larry S., 293,241, Cl. D14-100.00.
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Korellis, Karen L., to Wang Laboratories, Inc. Telephone stand with dialing means. 292,921, 11-24-87, Cl. D14-62.000.
Korner, Arno: *See*—
Brossard, Ansgar; and Korner, Arno, 292,351, Cl. D6-366.00.
Kornhaber, Eugene; and Gold, Ronald. Shuttlecock. 287,989, 1-27-87, Cl. D21-207.000.
Korper, George W., to Arche' Inc. Nail polish pen with cuticle stick. 291,373, 8-11-87, Cl. D28-57.000.
Korper, George W., to Arche' Inc. Nail polish pen with cuticle stick. 291,374, 8-11-87, Cl. D28-57.000.
Kosako, Mikio, to Sharp Corporation. Copying machine. 292,592, 11-3-87, Cl. D16-31.000.
Kosako, Mikio, to Sharp Corporation. Input/output computer terminal. 292,709, 11-10-87, Cl. D14-100.000.
Koshikawa, Masayuki, to Kabushikigaisha Marukoshi. Reconfigurable skull toy. 288,832, 3-17-87, Cl. D21-150.000.
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Fuss, Peter S.; Kosner, Jerry J., Jr.; Yndestad, Richard A.; and Pycha, Charles A., 288,751, Cl. D6-446.000.
Fuss, Peter S.; Kosner, Jerry J., Jr.; Yndestad, Richard A.; and Pycha, Charles A., 288,752, Cl. D6-446.000.
Fuss, Peter S.; Kosner, Jerry J., Jr.; Yndestad, Richard A.; and Pycha, Charles A., 288,753, Cl. D6-446.000.
Fuss, Peter S.; Kosner, Jerry J., Jr.; Yndestad, Richard A.; and Pycha, Charles A., 288,754, Cl. D6-446.000.
Kostanecki, Andrew T., to General Foods Corporation. Dispensing container for soft-frozen comestibles or the like. 289,375, 4-21-87, Cl. D9-302.000.
Kosukegawa, Yuichi; Chiba, Noboru; and Hyuga, Hideyo, to Hitachi, Ltd. Video tape recorder. 290,001, 5-26-87, Cl. D14-2.000.
Kotas, Delbert. Dog muzzle. 289,810, 5-12-87, Cl. D30-38.000.
Kotz, John A.; and Mitchell, Rodney W. Refrigeration gauge manifold bracket. 292,064, 9-29-87, Cl. D8-373.000.
Kouno, Shuichi; Utsuki, Toshiyuki; Sakae, Hideki; and Watanabe, Kenichi, to Hitachi, Ltd. Electric fan. 290,872, 7-14-87, Cl. D5-155.000.

Kouno, Shuichi; Utsuki, Toshiyuki; Sakae, Hideki; and Watanabe, Kenichi, to Hitachi, Ltd. Electric fan. 291,352, 8-11-87, Cl. D23-157.000.

Kouno, Shuichi; Sakae, Hideki; Yanagisawa, Kazunori; and Tsumurai, Yasuo, to Hitachi, Ltd. Electric fan. 291,486, 8-18-87, Cl. D23-155.000.

Kouno, Shuichi: *See*—
Utsuki, Toshiyuki; Kouno, Shuichi; Yanagisawa, Kazunori; and Tsumurai, Yasuo. 290,997, Cl. D23-155.000.

Koushafes, Nicholas J., to Investment Associates, Inc. Boat. 291,881, 9-15-87, Cl. D12-300.000.

Koutsoupidis, Theodore. Peristrophic-wing air craft. 293,430, 12-29-87, Cl. D12-338.000.

Kouzoujian, George. Table. 289,839, 5-19-87, Cl. D6-489.000.

Kovacs, Eddie; Faraci, Arthur; and Metz, Robert S., Jr., to Grumman Aerospace Corporation. Automatic test support system. 287,589, 1-6-87, Cl. D14-102.000.

Kovacs, Louis: *See*—
Chesterfield, John C., 292,555, Cl. D7-301.000.

Kowa Company, Ltd.: *See*—
Cyujou, Kennosuke; Takaono, Hitoshi; and Nanjou, Tsuguo, 288,822, Cl. D16-2.000.

Kowalik, John; Longhitano, Ronald; Miggels, Stephen G.; Shakespeare, Walter J.; and Varadarajan, G., to American Telephone & Telegraph Company, AT&T Information Systems Inc. Telephone stand. 293,321, 12-22-87, Cl. D14-60.000.

Kowalik, John; Longhitano, Ronald; Miggels, Stephen G.; and Shakespeare, Walter J., to American Telephone and Telegraph Company; and AT&T Information Systems Inc. Telephone stand. 293,441, 12-29-87, Cl. D14-60.000.

Kowollik, Mathias M.; Sneller, Jack A.; and Speidel, George S., III, to Procter & Gamble Company, The. Combined closure and measuring cup. 292,381, 10-20-87, Cl. D9-453.000.

Kowollik, Mathias M.; Sneller, Jack A.; and Speidel, George S., III, to Procter & Gamble Company, The. Pouring attachment for bottles. 292,489, 10-27-87, Cl. D9-447.000.

Kowollik, Mathias M.; Sneller, Jack A.; and Speidel, George S., III, to Procter & Gamble Company, The. Pouring attachment for bottles. 292,490, 10-27-87, Cl. D9-447.000.

Koyama, Toshio, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,080, 2-3-87, Cl. D12-146.000.

Koyama, Yoshio. Bicycle. 291,873, 9-15-87, Cl. D12-111.000.

Koye Electronics Industries Co., Ltd.: *See*—
Shimizu, Norio; and Watanabe, Yuichi, 290,694, Cl. D13-12.000.

Kozicl, Stephan. Corkscrew. 291,174, 8-4-87, Cl. D8-38.000.

Koziol, Walter, to Modern Home Products Corp. Dual venturi unit for a gas burner. 289,003, 3-31-87, Cl. D7-407.000.

Koziol, Walter, to Modern Home Products Corp. Adjustable cooking grid. 291,646, 9-1-87, Cl. D7-332.000.

Kozy, George J.; and Brockman, James T. Aquarium backing unit. 292,831, 11-17-87, Cl. D30-106.000.

Kraft, Inc.: *See*—
Carville, Michele A., 291,865, Cl. D9-322.000.

Kramer, Gregory D.; and Vanlanen, Daniel L., to Minnesota Mining and Manufacturing Company. Plastic supply bottle. 291,969, 9-22-87, Cl. D9-413.000.

Kramer, Gregory D.: *See*—
Vanlanen, Daniel L.; and Kramer, Gregory D., 292,266, Cl. D9-341.000.

Kramer, Melvin G.; and Iden, Marlin D., to Brunton Company, The. Compass. 290,093, 6-2-87, Cl. D10-68.000.

Kransco Manufacturing, Inc.: *See*—
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Stalberger, Robert J., Jr.; and Kennedy, LeRoy F., 292,014, Cl. D21-205.000.

Krapowicz, Jacob, to Scott & Fetzer Company, The. Paint dispensing pump. 290,126, 6-2-87, Cl. D15-7.000.

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Gubbe, Bernd; and Krause, Klaus-Diether, 291,450, Cl. D18-7.000.

Kraynack-Simon, Therese M. Roller skate case. 287,548, 1-6-87, Cl. D3-36.000.

Kraynak, Bill, to Merck & Co., Inc. Portable display stand. 288,997, 3-31-87, Cl. D6-474.000.

Kreeger, Elsmer W., to Pinckney Molded Plastics, Inc. Front panel for a bakery product container or similar article. 290,776, 7-7-87, Cl. D34-40.000.

Kreeger, Elsmer W., to Pinckney Molded Plastics, Inc. Tray for bakery products. 292,633, 11-3-87, Cl. D34-40.000.

Kreisner, William. Random lottery computer. 291,582, 8-25-87, Cl. D21-37.000.

Krentz, Daniel A.: *See*—
Knudsen, Jens N.; and Krentz, Daniel A., 291,101, Cl. D21-108.000.

Kress, George: *See*—
Appel, Mel; and Kress, George, 290,147, Cl. D21-150.000.
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Kreth, Julius, to Mike & Kremmel, Ltd. Food slicer. 293,194, 12-15-87, Cl. D7-381.000.

Kriner, John S.: *See*—
Berfield, Robert C.; and Kriner, John S., 288,763, Cl. D6-553.000.

Krishnamurthy, Jagadisan: *See*—
Farwell, David S.; Powers, David V.; Maselli, Steven A.; and Krishnamurthy, Jagadisan, 287,717, Cl. D13-35.000.

Kroger Company, The: *See*—
Wooll, Robert M., 289,113, Cl. D6-402.000.

Krol, Dennis D. Cup holder. 292,156, 10-6-87, Cl. D6-563.000.

Krol, Leonardus A. C., to U.S. Philips Corporation. Lighting fixture. 292,026, 9-22-87, Cl. D26-77.000.

Krol, Leonardus A. C., to U.S. Philips Corporation. Base for a lighting fixture. 292,322, 10-13-87, Cl. D26-75.000.

Kroll, Frederick H. Toy activity book. 288,943, 3-24-87, Cl. D21-59.000.

Krone GmbH: *See*—
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Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., to K & K Manufacturing, Inc. Precision measuring device. 289,743, 5-12-87, Cl. D10-73.000.

Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., to K & K Manufacturing, Inc. Precision measuring device. 290,094, 6-2-87, Cl. D10-73.000.

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Kronzer, Phillip J.; Caputo, Nick; Combs, Bernard M.; Conrad, Andrew; Kalani, James; and Kronzer, Timothy L., 289,743, Cl. D10-73.000.
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Krotzer, Robert D.; Eckert, Ross J.; Commisso, Domenico; Ordal, Douglas C.; and Pawlik, Peter S., to Kayak Manufacturing Corp. Swimming pool liner. 291,599, 8-25-87, Cl. D25-2.000.

Krovina, Peter G. Wind-powered floating home. 289,032, 3-31-87, Cl. D12-315.000.

Krueger, Claus D.: *See*—
Papke, Helmut H.; Arndt, Siegfried E.; Arndt, Dieter W.; and Krueger, Claus D., 293,144, Cl. D32-53.100.

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Krueger, Leo J. Truss spacer or similar article. 293,416, 12-29-87, Cl. D8-373.000.

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Glash, Dean M.; Kruger, Robert J.; Olson, Steven L.; and West, Richard L., 288,005, Cl. D24-61.000.

Krumm, James L., to X-M Corporation. Extrusion head for caulking gun. 289,881, 5-19-87, Cl. D8-14.100.

Krusas, James J.: *See*—
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Kruse, Leif, to A/S Nunc. Washing device for test tubes. 287,773, 1-13-87, Cl. D32-1.000.

Kruse, Wayne L.; Crabtree, Joe; and Brightbill, Keith E., to Murray Ohio Manufacturing Company, The. Lawn tractor. 292,406, 10-20-87, Cl. D15-23.000.

Kubo, Kazuhiko; Tsuda, Masanori; Hirota, Taisuke; Hosoya, Katsuyuki; Torii, Ichirou; and Suzuki, Atsushi, to Hitachi, Ltd. Fluorescent lamp. 292,130, 9-29-87, Cl. D26-3.000.

Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, to Matsushita Electric Industrial Co., Ltd. Microwave oven. 287,924, 1-27-87, Cl. D7-351.000.

Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, to Matsushita Electric Industrial Co., Ltd. Microwave oven. 287,925, 1-27-87, Cl. D7-351.000.

Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, to Matsushita Electric Industrial Co., Ltd. Microwave oven. 290,805, 7-14-87, Cl. D7-351.000.

Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, to Matsushita Electric Industrial Co., Ltd. Microwave oven. 291,048, 7-28-87, Cl. D7-351.000.

Kubota, Akira, to Hukuba Kogyo Kabushiki Kaisha. Carpet sweeper. 293,142, 12-8-87, Cl. D32-38.000.

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Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Hardiman, Nanette B., 288,580, Cl. D21-148.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; Hardiman, Nanette B.; Veness, Cathy L.; and McSweeney, Andrea, 288,584, Cl. D21-160.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Hardiman, Nanette B., 288,585, Cl. D21-163.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Hardiman, Nanette B., 288,704, Cl. D21-162.000.

Shaffer, Ralph; Davidson, William; Kucharik, Elena; Hardiman, Nanette B.; Veness, Cathy L.; and McSweeney, Andrea. 288,705, Cl. D21-187.000.

Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Spindle, Michael J., 290,980, Cl. D21-159.000.

Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Spindle, Michael J., 290,981, Cl. D21-159.000.

Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Spindle, Michael J., 290,982, Cl. D21-159.000.

Kuerti, Helmut, to New England Tray, Ltd. Pizza box. 292,176, 10-6-87, Cl. D9-428.000.

Kuether, Barbara; and Kuether, Mark. Splatter cover for microwave oven. 292,366, 10-20-87, Cl. D7-391.000.

Kuether, Mark: *See*—
Kuether, Barbara; and Kuether, Mark. 292,366, Cl. D7-391.000.

Kuhlmann, Bruno. Bank. 288,379, 2-17-87, Cl. D99-35.000.

Kujawski, Stanley M.; and Merten, Barron C., to Quaker Oats Company, The. Infant's bathtub. 289,319, 4-14-87, Cl. D23-52.000.

Kukita, Jyoji; Tsukamoto, Naoki; and Morinaga, Shin-ichi, to Sanyo Electric Co., Ltd. Combined radio receiver and tape player. 290,112, 6-2-87, Cl. D14-5.000.

Kukita, Jyoji; Tsukamoto, Naoki; and Morinaga, Shin-ichi, to Sanyo Electric Co., Ltd. Cassette tape player. 290,113, 6-2-87, Cl. D14-6.000.

Kukita, Jyoji; Tsukamoto, Naoki; and Morinaga, Shin-ichi, to Sanyo Electric Co., Ltd. Tape player. 290,114, 6-2-87, Cl. D14-6.000.

Kulish, Peter. Magnet for the treatment of liquids or the like. 289,674, 5-5-87, Cl. D23-3.000.

Kullberg, Erica. Chair. 290,430, 6-23-87, Cl. D6-359.000.

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Kump, William H.; and Jergl, Joseph J., to GNB Incorporated. Battery. 292,576, 11-3-87, Cl. D13-8.000.

Kunz, Kendall C. Contact lens inserter. 291,207, 8-4-87, Cl. D16-124.000.

Kunz, Peter, to Georg Fischer Aktiengesellschaft. Valve. 291,229, 8-4-87, Cl. D23-19.000.

Kunz, Peter, to Georg Fischer Aktiengesellschaft. Valve. 291,230, 8-4-87, Cl. D23-19.000.

Kunzler, Herold. Combined handle base and clasp. 290,441, 6-23-87, Cl. D8-321.000.

Kuo, Chiou T. Portable lamp. 290,519, 6-23-87, Cl. D26-60.000.

Kuo, Mei S. Dancing doll. 289,311, 4-14-87, Cl. D21-180.000.

Kuo, Pei W. Handset telephone. 290,004, 5-26-87, Cl. D14-53.000.

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Kurihara, Masaki, to Seiko Epson Kabushiki Kaisha. Electronic printer. 287,727, 1-13-87, Cl. D14-111.000.

Kurihara, Masaki, to Epson Corporation. Computer. 291,442, 8-18-87, Cl. D14-106.000.

Kurihara, Naoya; and Mikiya, Toshio, to Nitto Kohki Co., Ltd. Multi-needle type chisel. 293,073, 12-8-87, Cl. D8-61.000.

Kuroda, Yutaka, to Sumitomo Rubber Industries, Ltd. Automobile tire. 292,081, 9-29-87, Cl. D12-146.000.

Kuroiwa, Yukio: *See*—
Toyoda, Fumio; Kuroiwa, Yukio; Chiba, Noboru; and Hamamoto, Katsuya. 291,571, Cl. D14-78.000.

Kurokawa, Koya; and Takahashi, Masami, to Matsushita Electric Industrial Co., Ltd. Video camera. 288,811, 3-17-87, Cl. D14-78.000.

Kurokawa, Shoichi: *See*—
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Kuroki, Nobufusa; and Ebata, Yoshikazu, to Janome Sewing Machine Co. Ltd. Sewing machine. 288,207, 2-10-87, Cl. D15-70.000.

Kuroki, Nobufusa, to Janome Sewing Machine Co. Ltd. Sewing machine. 289,052, 3-31-87, Cl. D15-69.000.

Kuroki, Nobufusa, to Janome Sewing Machine Co. Ltd. Sewing machine. 289,053, 3-31-87, Cl. D15-69.000.

Kuroki, Nobufusa, to Janome Sewing Machine Co., Ltd. Sewing machine. 289,767, 5-12-87, Cl. D15-69.000.

Kuroki, Nobufusa, to Janome Sewing Machine Co., Ltd. Sewing machine. 293,115, 12-8-87, Cl. D15-69.000.

Kuroki, Nobufusa: *See*—
Uchida, Koji; and Kuroki, Nobufusa. 288,690, Cl. D15-69.000.

Kusanagi, Takashi, to Ampere Incorporated. Portable electronic computer. 287,969, 1-27-87, Cl. D14-106.000.

Kushner, Philip M., to Interlego A.G. Simulative toy construction element. 290,722, 7-7-87, Cl. D21-108.000.

Kusmer, Raymond J., to Cooper Industries, Inc. Track light transformer. 290,524, 6-23-87, Cl. D26-138.000.

Kusmer, Raymond J., to Cooper Industries, Inc. Track light extension arm. 291,929, 9-15-87, Cl. D26-138.000.

Kuykendall, William F., to Sundowner Industries, Inc. Louver unit for automobile rear window. 289,278, 4-14-87, Cl. D12-191.000.

Kwan, Luk C., to Tai Tung International, Inc. Toy videocassette player. 288,947, 3-24-87, Cl. D21-111.000.

Kwiatkowski, Joseph, to Sirius Enterprises. Container for holding and heating fragrances or the like and stand therefor. 288,842, 3-17-87, Cl. D23-78.000.

Kwiatkowski, Joseph, to Sirius Enterprises. Container for holding and heating fragrances or the like and stand therefor. 289,678, 5-5-87, Cl. D23-78.000.

Kwiecinski, Alfred, to Hamilton Sorter Co., Inc. Personal computer storage cabinet. 291,162, 8-4-87, Cl. D6-430.000.

Kwiecinski, Alfred, to Hamilton Sorter Co., Inc. Storage cabinet for a personal computer. 291,163, 8-4-87, Cl. D6-430.000.

Kwiecinski, Gordon F., to Hamilton Sorter Co., Inc. Mobile personal computer workstation. 293,398, 12-29-87, Cl. D6-430.000.

Kwik Ticket Inc.: *See*—
Feierstein, Barry S.; and Levy, Jon A. 291,326, Cl. D18-19.000.

Kwon, Kee J. Vehicle wheel locking nut. 288,777, 3-17-87, Cl. D8-397.000.

L.B. (Plastics) Limited: *See*—
Hardy, Terence, 288,615, Cl. D25-74.000.
Hardy, Terence, 288,965, Cl. D25-74.000.
Hardy, Terence, 289,202, Cl. D25-74.000.
Hardy, Terence, 289,203, Cl. D25-74.000.
Hardy, Terence, 289,204, Cl. D25-74.000.
Hardy, Terence, 289,552, Cl. D25-74.000.
Hardy, Terence, 290,172, Cl. D25-74.000.

L-TEC Company: *See*—
Datta, Bishnu P., 291,231, Cl. D23-21.000.

La Brosse et Du Pont: *See*—
Malgrain, Paul, 288,148, Cl. D4-104.000.

La Cle: *See*—
Lindon, Marilyn R., 293,392, Cl. D3-106.000.

La Societe Orfevrerie Christofle: *See*—
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Boulhet, Henry, 292,361, Cl. D7-152.000.

Lab-Line Instruments, Inc.: *See*—
Vander Hout, Dirk E., and Dufour, Raymond A., 288,600, Cl. D24-9.000.

Lab Stuff, Inc.: *See*—
Malavarca, Richard; and Livelli, Thomas. 290,510, Cl. D24-31.000.

Labbe, Benoit: *See*—
Labbe, Pierre; and Labbe, Benoit. 291,210, Cl. D20-43.000.

Labbe, Pierre; and Labbe, Benoit. Panel for receiving advertising material. 291,210, 8-4-87, Cl. D20-43.000.

Labor-Management Publications, Inc.: *See*—
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Labouliere, Elzear R.: *See*—
de Vos, Hendrik A. J.; and Labouliere, Elzear R., 290,522, Cl. D26-63.000.
De Vos, Hendrik A. J.; and Labouliere, Elzear R., 291,360, Cl. D26-63.000.

Lacasse, Clement. Pedal boat. 290,594, 6-30-87, Cl. D12-306.000.

Lacey, Edward H. Food tray. 292,661, 11-10-87, Cl. D7-38.000.

Lacher, Vernon R.; Gogoll, Thornton H.; and McCloskey, Don R., to Black & Decker Inc. Portable light. 288,371, 2-17-87, Cl. D26-50.000.

Lachonius, Leif: *See*—
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Abbestam, Goran; and Lachonius, Leif. 292,065, Cl. D8-499.000.

Lackner, John R.; and Bartasevich, William E., Jr., to Scott & Fetzer Company, The. Vacuum cleaner bracket. 291,129, 7-28-87, Cl. D12-31.000.

Lacoux, Peter. Table. 290,669, 7-7-87, Cl. D6-488.000.

Ladie and Friends, Inc.: *See*—
Wisber, Barbara K., 290,381, Cl. D21-154.000.

Ladson, Larry C. Container for holding a spray can. 292,875, 11-24-87, Cl. D9-317.000.

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Hoffman, Ronald J.; Alair, Douglas M.; La Fleur, Robin S.; and Salzberger, Claude. 290,197, Cl. D6-422.000.

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Perfect, Alan J., 287,864, Cl. D20-27.000.

Lagace, Gaetan, to Ideal Aqua Miracle Inc. Distilled water dispenser. 290,330, 6-16-87, Cl. D7-306.000.

Lagerbielke, Erika; and Ahlman, Tomas, to Swedish Telecommunications Administration. Telephone set. 292,919, 11-24-87, Cl. D14-53.000.

Laitram Corporation, The: *See*—
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Lajoie, Ivan L., to 579874 Ontario Inc. Ring. 291,423, 8-18-87, Cl. D11-26.000.

Lajos, Thomas Z. Ski pole handle. 291,909, 9-15-87, Cl. D21-230.000.

LaLanne, Claude. Headset or similar article. 291,197, 8-4-87, Cl. D14-36.000.

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Lalonde, Michel R., to Bell Canada. Telephone booth. 290,043, 5-26-87, Cl. D25-16.000.

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Lam, Eddie. Hand-held flashlight. 290,171, 6-2-87, Cl. D26-48.000.

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Lambert, Lahman D., II: *See*—
Waters, Mark H.; and Lambert, Lahman D., II, 292,595, Cl. D13-24.000.

Lamborghini, Tonino. Textile fabric. 291,845, 9-15-87, Cl. D5-56.000.

Lancaster Colony Corporation: *See*—
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Lance, Layton G. Built-in wall cabinet. 287,800, 1-20-87, Cl. D6-559.000.
Lance, Mark A., to W. A. Deutsher Pty. Ltd. Whistle. 291,421, 8-18-87, Cl. D10-119.000.
Lanci, Dennis M.; and Paull, Mike M., to Physio-Control Corporation. Defibrillator. 291,245, 8-4-87, Cl. D24-17.000.
Landan, Ned; and Becker, Jon A., to Pelton & Crane Company, The. Side cabinet module. 287,622, 1-6-87, Cl. D24-1.100.
Landan, Ned; Becker, Jon; and Miller, Bobby, to Pelton & Crane Company, The. Operatory support center. 287,624, 1-6-87, Cl. D24-1.100.
Landan, Ned; Leffler, Dennis; and Truette, Dan, to Pelton & Crane Company, The. Sink module. 287,748, 1-13-87, Cl. D23-59.000.
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McGaha, George; Truette, Dan; Landan, Ned; and Hardin, Bill, 288,122, Cl. D24-5.000.
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Campbell, Robert B.; and Landau, Junichi P., 291,384, Cl. D2-309.000.
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Lang, Paul W.; and Gribshaw, Frank C. Combined tape player and photograph display therefor. 289,038, 3-31-87, Cl. D14-5.000.
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Bollinger, Howard N.; Allen, Robert K.; Langdon, Nick H.; Toth, Stephen M.; and Williams, W. Grey, 287,738, Cl. D21-90.000.
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Lange, Gerd, to Fixtures Manufacturing Corporation. Frame for a stack chair. 290,789, 7-14-87, Cl. D6-380.000.
Lange, Nels P. Child's rocking chair. 289,705, 5-12-87, Cl. D6-344.000.
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Feltman, Charles H.; and Langer, Dirk G., 290,568, Cl. D7-9.000.
Langlands, Alastair F., to Briticent International Limited. Portable lamp housing. 289,929, 5-19-87, Cl. D26-37.000.
Lanier, James R. Container holder. 287,920, 1-27-87, Cl. D7-70.000.
Lapeyre, James M.; and Faulkner, William G., to Laitram Corporation, The. Conveyor belt module. 291,777, 9-8-87, Cl. D8-499.000.
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Larkin, Mark E.; and Tripp, Edward S., to Abbott Laboratories. Combined vial and closure. 288,365, 2-17-87, Cl. D24-56.000.
Larkin, Mark E.; and Tripp, Edward S., to Abbott Laboratories. Combined vial and closure. 288,964, 3-24-87, Cl. D24-56.000.
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LaRoye, Eric. Lamp. 292,027, 9-22-87, Cl. D26-104.000.
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Larson, Larry G.: *See*—
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Likness, Dawn M.; and LaRue, Marvel M., 292,958, Cl. D6-522.000.
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Likness, Dawn M.; and LaRue, Marvel M., 293,057, Cl. D6-522.000.
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Biggs, Fred C., 289,205, Cl. D26-28.000.
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Laslo, Larry R., to American Commercial, Incorporated. Hors d'oeuvre platter. 288,269, 2-17-87, Cl. D7-5.000.
Latchman, David M. Beverage can holder for cycles or the like. 288,305, 2-17-87, Cl. D12-114.000.
Lates, Kornel, to Scepter Manufacturing Co. Ltd. Citrus crate. 291,018, 7-21-87, Cl. D34-46.000.
Lathrop, Bethany, to Aloys F. Dornbracht GmbH & Co. Faucet knob. 291,477, 8-18-87, Cl. D23-28.000.
Lathrop, Bethany, to Aloys F. Dornbracht GmbH & Co. Faucet knob. 291,824, 9-8-87, Cl. D23-28.000.
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Wright, David; and Latino, Richard M., 293,055, Cl. D6-510.000.
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Latta, Leigh C., III, to Dexter-Portfolio Co., The. Stuffed toy bear. 293,330, 12-22-87, Cl. D21-159.000.
Latta, Leigh C., III, to Dexter-Portfolio Co., The. Stuffed toy ferret. 293,343, 12-22-87, Cl. D21-148.000.
Lau, Yuk F., to Tai Way (Shing Kee) Toys Co. Ltd. Combined toy frogman with propulsion unit. 288,344, 2-17-87, Cl. D21-150.000.
Laughlin, Jennifer, to Wyss, B. O.; Wyss, E. L.; and Heywood, R. G., part interest to each. Novelty sun visor. 287,901, 1-27-87, Cl. D2-252.000.
Laughlin, Jennifer, to Wyss, B. O.; Wyss, E. L.; and Heywood, R. G., part interest to each. Novelty sun visor. 288,023, 2-3-87, Cl. D2-252.000.
Laughlin, Jennifer, to Wyss, B. O.; Wyss, E. L.; and Heywood, R. G., part interest to each. Novelty sun visor. 288,024, 2-3-87, Cl. D2-252.000.
Laughlin, Jennifer, to Wyss, B. O.; Wyss, E. L.; and Heywood, R. G., part interest to each. Novelty sun visor. 288,025, 2-3-87, Cl. D2-252.000.
Laughlin, Jennifer, to Wyss, B. O.; Wyss, E. L.; and Heywood, R. G., part interest to each. Novelty sun visor. 288,026, 2-3-87, Cl. D2-252.000.
Laughlin, Lonnie C.: *See*—
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Lauhoff, Charles L. Bootjack. 288,030, 2-3-87, Cl. D2-642.000.
Lavender, Ardis R.; and Diker, Michael, to Armour Pharmaceutical Company. Combined plasmapheresis console and fluid exchanger. 289,548, 4-28-87, Cl. D24-1.100.
Lavine, Monte D., to Eastman Kodak Company. Microfilm retrieval terminal or the like. 291,205, 8-4-87, Cl. D16-14.000.
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LeBlanc, Pierre, to Pierre LeBlanc Consulting Services, Ltd. Display tray. 288,039, 2-3-87, Cl. D6-468.000.
LeBlanc, Pierre, to Pierre LeBlanc Consulting Services, Ltd. Display stand. 288,040, 2-3-87, Cl. D6-472.000.

LeBlanc, Pierre, to Pierre LeBlanc Consulting Services, Ltd. Display stand. 288,041, 2-3-87, Cl. D6-473.000.

Lebowitz, Samuel, to Wilton Enterprises, Inc. Kettle. 288,518, 3-3-87, Cl. D7-322.000.

Lebowitz, Samuel, to Wilton Enterprises, Inc. Kettle. 288,890, 3-24-87, Cl. D7-322.000.

Lebrecht, Horst, to Master Lock Company. Cover and seal unit for a padlock. 292,869, 11-24-87, Cl. D8-346.000.

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Lederer, David B., to Detection Systems, Inc. Smoke detector housing. 293,089, 12-8-87, Cl. D10-106.000.

Le Droit, Loren L. Ice creeper. 293,160, 12-15-87, Cl. D2-317.000.

Lee, Chain H. Chair. 290,192, 6-9-87, Cl. D6-358.000.

Lee, David W.; and Johnson, Logan W., to Rosemount Inc. Hand held digital communicator housing. 292,401, 10-20-87, Cl. D14-68.000.

Lee, Francis Y., to Arteco Electronics Limited. Combined digital clock and thermometer with integral stand. 289,380, 4-21-87, Cl. D10-4.000.

Lee, Freddy T. Tennis trophy. 288,075, 2-3-87, Cl. D11-160.000.

Lee, Freddy T. Baseball trophy. 288,182, 2-10-87, Cl. D11-160.000.

Lee, Freddy T. Racquetball trophy. 288,183, 2-10-87, Cl. D11-160.000.

Lee, Freddy T. Runner trophy. 288,184, 2-10-87, Cl. D11-161.000.

Lee, Gerald W., to Woodcutters Manufacturing, Inc. Solid fuel burning stove. 292,121, 9-29-87, Cl. D23-97.000.

Lee, Han S., to Gold Star Company, Ltd. Television receiver. 291,311, 8-11-87, Cl. D14-80.000.

Lee, Jong S. Clock face. 288,675, 3-10-87, Cl. D11-126.000.

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Lee, Lawrence L. Rope fastener. 292,668, 11-10-87, Cl. D8-356.000.

Lee, Minchy. Abdominal-back exerciser. 288,459, 2-24-87, Cl. D21-191.000.

Lee, Peter. Telephone. 291,437, 8-18-87, Cl. D14-53.000.

Lee, Peter. Telephone. 291,562, 8-25-87, Cl. D14-53.000.

Lee, Peter. Handset telephone and stand set. 291,990, 9-22-87, Cl. D14-53.000.

Lee, Peter. Handset telephone. 291,991, 9-22-87, Cl. D14-64.000.

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Legler, John G.; Bartlett, Robert L.; and Folkerth, Harold E., to Shopsmith, Inc. Combined guard and dust collector for a table saw. 292,407, 10-20-87, Cl. D15-133.000.

Leib, Roger K. Combined seat and table unit. 289,466, 4-28-87, Cl. D6-335.000.

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Lemmeyer, Gary R.; and Kamman, Gordon W., to Quaker Oats Company, The. Chair. 293,050, 12-8-87, Cl. D6-373.000.

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Leo, Nick F. Distress bouy. 291,289, 8-11-87, Cl. D10-107.000.

Leo, Nick F. Distress buoy. 292,558, 11-3-87, Cl. D10-107.000.

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Lepoix, Louis L., to Rittal-Werk Rudolf Loh GmbH & Co. KG. Cabinet for electrical components. 289,035, 3-31-87, Cl. D13-40.000.

Lepoix, Louis L., to Dansk Pressalit A/S. Combined toilet seat and cover, or similar article. 292,018, 9-22-87, Cl. D23-71.000.

Leray, Henri, to Henri Leray AB. Scraper for removing paint. 288,975, 3-24-87, Cl. D32-49.000.

Leray, Henri, to Henri Leray AB. Removable stop for a paint roller handle. 289,232, 4-14-87, Cl. D4-122.000.

Lerch, Karl D., to Quaker Oats Company, The. Toy truck. 289,308, 4-14-87, Cl. D21-134.000.

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Levoy, Barton M. Eyeglasses. 290,466, 6-23-87, Cl. D16-117.000.
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Leyland, Timothy J., to Camden Graphics Limited. Envelope. 287,735, 1-13-87, Cl. D19-3.000.
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Likness, Dawn M.; and LaRue, Marvel M. Paper towel holder. 293,057, 12-8-87, Cl. D6-522.000.
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Lin, Tien-Sung. Combined refrigerator and air conditioner. 289,404, 4-21-87, Cl. D15-81.000.
Lindahl, Richard, to Televerket. Telephone. 289,393, 4-21-87, Cl. D14-56.000.
Lindahl, Richard, to Televerket. Telephone set. 290,700, 7-7-87, Cl. D14-53.000.
Lindberg, Bengt L. Annunciator. 292,994, 12-1-87, Cl. D20-20.000.
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Linden, Erkki O., to Oy Fiskars AB. Knife sharpener. 288,657, 3-10-87, Cl. D8-93.000.
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Lindheimer, Thom. Mailbox cover. 287,899, 1-20-87, Cl. D99-30.000.
Lindholm, Nore. Breathing gas heat exchanger. 290,657, 6-30-87, Cl. D24-62.000.
Lindon, Marilyn R., to La Cle. Purse attachment for belt. 293,392, 12-29-87, Cl. D3-106.000.
Lindsey, Frank; and Walkley, Charles, to Conair Corporation. Hair care appliance package. 289,737, 5-12-87, Cl. D9-415.000.
Lindsey, Vicki A. Weight belt with adjustable weights. 289,765, 5-12-87, Cl. D21-196.000.
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Link, Helmut D., to Waldemar Link GmbH & Co. Finger splint. 293,379, 12-22-87, Cl. D24-64.000.
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Linton, Paul W. Gas fired hot water pressure cleaning apparatus. 288,017, 1-27-87, Cl. D32-25.000.
Linzer, Irwin P. One-to-one force-balance fluid pressure sensor component. 288,910, 3-24-87, Cl. D10-85.000.
Linzer, Irwin P. Cylindrical one-to-one force-balance fluid pressure sensor component. 291,419, 8-18-87, Cl. D10-85.000.
Lipson, Eric. Tubular eyeglass frame. 291,893, 9-15-87, Cl. D16-102.000.
Liptak, Richard M., to Integral Design, Inc. Combination sign card and photograph holder. 293,280, 12-22-87, Cl. D6-314.000.
Lisowski, Walter E. Video camera shoulder rest. 289,162, 4-7-87, Cl. D14-84.000.
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Liu, King. Exercise bicycle. 291,822, 9-8-87, Cl. D21-194.000.

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Lizotte, Bernard A. Combined bird beak expander and shield therefor. 289,573, 4-28-87, Cl. D30-33.000.

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Lofgren, Torbjorn, to Hydroterapi AB. Combined chair and hydrotherapy unit for legs. 289,438, 4-21-87, Cl. D24-38.000.

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Long, Douglas G., to Diebold, Incorporated. Check writing stand incorporating electronic terminal or similar article. 289,818, 5-12-87, Cl. D99-28.000.

Long, Douglas G., to Diebold, Incorporated. Electronic funds transfer terminal or similar article. 289,819, 5-12-87, Cl. D99-28.000.

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Long, Jerry M.; and Womack, James A., to Innovative Concepts, Inc. Diskette storage container for floppy diskettes. 287,544, 1-6-87, Cl. D3-35.000.

Long, Jerry M.; and Womack, James A., to Innovative Concepts, Inc. Storage and display container for floppy diskettes. 287,545, 1-6-87, Cl. D3-35.000.

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Goberman, Janis, 290,761, Cl. D28-83.000.
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Lorio, Edward F. Table. 291,951, 9-22-87, Cl. D6-482.000.

Lorio, Edward F. Table. 291,952, 9-22-87, Cl. D6-482.000.

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Lotterer, Donald H., to C. W. Zumbiel Company, The. Spark plug package. 290,584, 6-30-87, Cl. D9-345.000.

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Loughridge, Jane W., to Minnesota Mining and Manufacturing Company. Combined dispenser case for a contact lens cleaning fabric and tray. 288,883, 3-24-87, Cl. D6-519.000.

Loughridge, Jane W., to Minnesota Mining and Manufacturing Company. Dispenser case for a contact lens cleaning fabric. 289,592, 5-5-87, Cl. D6-518.000.

Loughridge, Jane W., to Minnesota Mining and Manufacturing Company. Combined dispenser case for a contact lens cleaning fabric and tray. 290,075, 6-2-87, Cl. D6-519.000.

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Love, Russell W. Baseball line-up board. 292,969, 12-1-87, Cl. D10-46.100.

Lovett, Robert H.; Kakuk, Jay J.; and Ellson, Bart T., to Toro Company, The. Multi-outlet center. 290,835, 7-14-87, Cl. D13-30.000.

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Lowery, Archie J. Wire rope socket. 290,339, 6-16-87, Cl. D8-354.000.

Lozano, Anthony R. Strike plate for surface mounted dead bolt lock. 293,078, 12-8-87, Cl. D8-344.000.

Lubbers, Willi, to Nico Pyrotechnik, Hanns-Juergen Diederichs GmbH & Co. Spark plug. 289,998, 5-26-87, Cl. D13-16.000.

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Lucas, Thomas J., to Lucas, Thomas J. Combined towing and engine pulling wrecker trailer. 288,912, 3-24-87, Cl. D12-101.000.

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Maejima, Seiichi, to Descente Limited. Ski pants. 289,222, 4-14-87, Cl. D2-28.000.
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Manton, Terry, to Westwood Lighting Group, Inc. Lamp base. 289,559, 4-28-87, Cl. D26-110.000.
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dickelson, Thorwald J., to Transport Security Inc. Steering lock. 288,523, 3-3-87, Cl. D8-330.000.
dicro Component Technology, Inc.: *See*—
Harding, David R., 290,962, Cl. D15-199.000.
dicro Connection, Inc.: *See*—
Cohen, Robert M., 291,744, Cl. D3-74.000.
dicro Control Systems, Inc.: *See*—
Davies, David L., 288,815, Cl. D14-107.000.
Micro-Mega S.A.: *See*—
Leonard, Henri, 287,627, Cl. D24-10.000.
Leonard, Henri, 288,846, Cl. D24-31.000.
Micro Plastics, Inc.: *See*—
Hill, Royce W., 290,929, Cl. D8-354.000.
Hill, Royce W., 290,930, Cl. D8-354.000.
Hill, Royce W., 291,056, Cl. D8-354.000.
Hill, Royce W., 291,278, Cl. D8-354.000.
Hill, Royce W., 291,532, Cl. D8-395.000.
Hill, Royce W., 291,864, Cl. D8-354.000.
Hill, Royce W., 292,263, Cl. D8-354.000.
MicroComputer Accessories, Inc.: *See*—
Clark, James B., 292,416, Cl. D18-23.000.
Microlectric Canada Ltd.: *See*—
Czyborra, Gerhard W., 291,410, Cl. D8-394.000.
Micromedics, Inc.: *See*—
Armstrong, Beverly W., 291,595, Cl. D24-28.000.
Midwest Marko, Inc.: *See*—
Fogelman, Sam, 289,972, Cl. D8-371.000.
Miels, Edward T. Toilet tissue dispenser. 292,155, 10-6-87, Cl. D6-523.000.
Miggels, Stephen G.: *See*—
Day, Alvin D.; Miggels, Stephen G.; Nuttall, Michael J.; and Sylvester, Gordon E., 290,703, Cl. D14-113.000.
Kowalik, John; Longhitano, Ronald; Miggels, Stephen G.; Shakespeare, Walter J.; and Varadarajan, G., 293,321, Cl. D14-60.000.
Kowalik, John; Longhitano, Ronald; Miggels, Stephen G.; and Shakespeare, Walter J., 293,441, Cl. D14-60.000.
Migliore, Jean P. Chiropractic table. 289,921, 5-19-87, Cl. D24-33.000.
Mika, Paul L.: *See*—
Alterio, Frank C.; Genaro, Donald M.; Harden, Daniel; Johnson, Chris G.; McQueen, Edwin D.; and Mika, Paul L., 289,762, Cl. D14-101.000.
Mikado, Yoshio; Ito, Jun; and Ohsumi, Masayuki, to Honda Giken Kogyo Kabushiki Kaisha. Outboard motor. 289,169, 4-7-87, Cl. D15-4.000.
Mikado, Yoshio; Ito, Jun; and Ohsumi, Masayuki, to Honda Giken Kogyo Kabushiki Kaisha. Outboard motor. 289,170, 4-7-87, Cl. D15-4.000.
Mikami, Hitomi: *See*—
Takada, Kazuo; Fujiwara, Tadanori; Izumi, Miyo; Ogata, Yayoi; Mikami, Hitomi; and Yabe, Eriko, 287,562, Cl. D7-350.000.
Mike & Kremmel, Ltd.: *See*—
Barnett, David J., 292,866, Cl. D8-41.000.
Kreth, Julius, 293,194, Cl. D7-381.000.
Steinko, Willi, 288,272, Cl. D7-47.000.
Mikhail Darafeev, Inc.: *See*—
Zakharov, Vladimir W., 287,794, Cl. D6-360.000.
Miki, Shigeru, to Nissan Motor Co., Ltd. Automobile front bumper. 292,902, 11-24-87, Cl. D12-169.000.
Mikic, Frank: *See*—
Doman, Donald W.; and Mikic, Frank, 292,062, Cl. D8-22.000.
Mikiya, Toshio. Multi-needle type chisel. 292,368, 10-20-87, Cl. D8-61.000.
Mikiya, Toshio: *See*—
Kurihara, Naoya; and Mikiya, Toshio, 293,073, Cl. D8-61.000.
Mikkelsen, Henrik, to Folkmar, Jan. Bag for freezing liquids. 288,409, 2-24-87, Cl. D9-305.000.
Milad, Anis I. Combined helicopter and tank. 292,193, 10-6-87, Cl. D12-2.000.
Milden, Morton, to Bel-Art Products, Inc. Carbon dioxide compressing generator for dry ice manufacture. 293,249, 12-15-87, Cl. D15-9.000.
Mildrum Manufacturing Co.: *See*—
Ziemelis, Herbert, 292,115, Cl. D22-143.000.
Ziemelis, Herbert, 292,116, Cl. D22-143.000.
Miles Laboratories, Inc.: *See*—
Collister, Kenneth D.; and Johnson, Steven C., 292,277, Cl. D10-46.000.
Miles, Nancy J.; and Dyson, Stephen. Storage module for automobiles with rear access. 289,824, 5-19-87, Cl. D3-40.000.
Miles, Richard; and Green, Stephen T., to Samsomite Corporation. Handle. 289,490, 4-28-87, Cl. D8-306.000.
Miles, Richard: *See*—
Flicker, Wendy; and Miles, Richard, 292,862, Cl. D7-332.000.
Mileto, Sal. Cup lid. 292,676, 11-10-87, Cl. D9-454.000.
Milford, Alan H.: *See*—
Sangster, Arlon G.; and Milford, Alan H., 288,226, Cl. D23-3.000.
Miller, Bobby: *See*—
Landan, Ned; Becker, Jon; and Miller, Bobby, 287,624, Cl. D24-1.100.
Miller, Cardell E.; and Berg, Harvey F., to Ideal Security Hardware Corporation. Deadbolt lock for hinged doors. 292,172, 10-6-87, Cl. D8-339.000.
Miller, Celeen K. Apron. 288,020, 2-3-87, Cl. D2-226.000.
Miller, Charles D.; Daniels, Bernard O.; and McKeone, William C., to Broadway Industries, Inc. Faucet spout. 287,747, 1-13-87, Cl. D23-32.000.
Miller, Dale E. Cable connecting pull for an automatic dead end and a tensioning device. 291,776, 9-8-87, Cl. D8-382.000.
Miller, David, to Delta International Machinery Corp. Scroll saw. 292,713, 11-10-87, Cl. D15-133.000.
Miller, David C.; Dawson, Robert E.; and Pendleton, Thomas J., to Wagner Spray Tech Corporation. Hot air gun. 288,472, 2-24-87, Cl. D23-77.000.

Miller, David C., to Wagner Spray Tech Corporation. Combined liquid container, applicator and scraper or similar article. 288,780, 3-17-87, Cl. D9-337.000.

Miller, Griffith C., to Dr. Miller's Health Care Products, Inc. Foot hygiene brush. 288,034, 2-3-87, Cl. D4-120.000.

Miller, Griffith C., to Dr. Miller's Health Care Products, Inc. Foot hygiene brush. 288,503, 3-3-87, Cl. D4-120.000.

Miller, Ian J. Handle for sport racket or similar article. 293,257, 12-15-87, Cl. D21-230.000.

Miller, John E., Jr., to Woodmaster Tools, Inc. Sanding machine. 292,099, 9-29-87, Cl. D15-124.000.

Miller, Karen L.; Turner, Linda L.; and Henderson, Erma L. Container for dispensing bags for bagging soiled diapers and the like. 290,810, 7-14-87, Cl. D9-318.000.

Miller, Kendall L. Telephone support stand. 289,898, 5-19-87, Cl. D14-60.000.

Miller, Lewie H., Jr.: *See*—
Weisel, Charles W., Jr.; and Miller, Lewie H., Jr., 291,201, Cl. D14-100.000.

Miller, Martin, to Bianchi International. Holster. 289,462, 4-28-87, Cl. D3-101.000.

Miller, Melvin M. Display stand. 293,174, 12-15-87, Cl. D6-436.000.

Miller, Melvin M. Display stand. 293,175, 12-15-87, Cl. D6-436.000.

Miller, Melvin M. Display stand. 293,176, 12-15-87, Cl. D6-436.000.

Miller, Philip V. D. Clothes tree or similar article. 290,196, 6-9-87, Cl. D6-415.000.

Miller, Randolph F.: *See*—
Smith, David B.; and Miller, Randolph F., 291,823, Cl. D21-195.000.

Miller, Randy L.: *See*—
Wahl, Gregory S.; Miller, Randy L.; and Hattori, Kenneth M., 287,648, Cl. D28-53.000.

Miller, Thomas M.; and Schraff, Raymond J., to Eltech Systems Corporation. Cover for a ladle or the like. 291,118, 7-28-87, Cl. D23-82.000.

Miller, Wilbert A. Squeegee blade offset carrier. 292,637, 11-3-87, Cl. D32-41.000.

Millerd, Donald L.; Alpert, Robert S.; and King, John E., to IVAC Corporation. Drug delivery valve for IV fluid infusion system. 293,129, 12-8-87, Cl. D24-53.000.

Millerd, Donald L.: *See*—
Ashie, George; and Millerd, Donald L., 293,130, Cl. D24-53.000.

Millot, Jean Pierre, to Provitech Design Inc. Wall-mounted display rack. 289,593, 5-5-87, Cl. D6-570.000.

Millroy, John P. Fishing lure. 289,790, 5-12-87, Cl. D22-129.000.

Mills, Anthony M.; and Egan, Daniel C., to Dunlop Tire and Rubber Co. Motorcycle tire. 288,549, 3-3-87, Cl. D12-151.000.

Mills, Frederick G. W.; and Piercy, Michael, to United Glass Limited; and Universal Wines & Spirits Limited. Bottle. 287,933, 1-27-87, Cl. D9-349.000.

Mills, Frederick G. W.; and Piercy, Michael, to United Glass Limited; and Universal Wines & Spirits Limited. Bottle. 287,936, 1-27-87, Cl. D9-372.000.

Milton, Peter R.: *See*—
Wojcik, Jacek J.; Przybysz, Andrzej; and Milton, Peter R., 289,289, Cl. D14-67.000.

Minagawa, Masahiro: *See*—
Morozumi, Kiyotaka; Hashimoto, Masanori; and Minagawa, Masahiro, 291,095, Cl. D18-13.000.

Minakuchi, Masaaki; and Fujisawa, Tadao, to Tokyo Electric Co., Ltd. Cartridge for ink ribbon. 290,135, 6-2-87, Cl. D18-22.000.

Miner Container Printing, Inc.: *See*—
Miner, Odin F., 288,667, Cl. D9-443.000.

Miner, Odin F., to Miner Container Printing, Inc. Container closure. 288,667, 3-10-87, Cl. D9-443.000.

Mingledorff, Frank C., Jr. Nursing bottle holder. 290,794, 7-14-87, Cl. D6-462.000.

Minichillo, Ronald A.; and Broyles, Wayne R., to Kemberly, Inc. Extrusion for ladder step. 291,006, 7-21-87, Cl. D25-69.000.

Minman Security AB: *See*—
Bohjort, Bengt, 291,127, Cl. D29-15.000.

Minnesota Mining and Manufacturing Company: *See*—
Alward, Jeffrey A.; and Gresens, Stanley T., 291,976, Cl. D10-121.000.
Crawford, Dennis L.; and Johnson, Logan W., 289,180, Cl. D19-69.000.
Hauser, Mark W.; and Windorski, David C., 287,862, Cl. D19-78.000.
Kramer, Gregory D.; and Vanlanen, Daniel L., 291,969, Cl. D9-413.000.
Loughridge, Jane W., 288,762, Cl. D6-518.000.
Loughridge, Jane W., 288,883, Cl. D6-519.00.
Loughridge, Jane W., 289,592, Cl. D6-518.000.
Loughridge, Jane W., 290,075, Cl. D6-519.000.
Marshall, Anne L.; and Joss, Michael S., 291,799, Cl. D14-11.000.
Sutou, Masatoki; Nishiseko, Jun; Onishi, Takako; Yamagishi, Seiichi; Anderson, Walter F., Jr.; and Sabo, Brian D., 290,969, Cl. D18-22.000.
Sutou, Masatoki; Maeda, Yutaka; Anderson, Walter F., Jr.; and Kochevar, James W., 293,390, Cl. D3-35.000.
VanderWerf, Dennis F., 288,571, Cl. D16-14.000.
Vanlanen, Daniel L.; and Kramer, Gregory D., 292,266, Cl. D9-341.000.

Mino, Joji; and Shibayama, Haruo, to Tsubakimoto Chain Co. Monorail for overhead running carrier. 289,983, 5-26-87, Cl. D12-50.000.

Mino, Joji: *See*—
Ishikura, Takashi; Mino, Joji; and Nagato, Takaaki, 289,984, Cl. D12-50.000.

Minolta Camera Kabushiki Kaisha: *See*—
Moggridge, William G., 287,598, Cl. D14-114.000.
Moggridge, William G., 288,324, Cl. D14-111.000.
Moggridge, William G., 288,446, Cl. D14-106.000.
Moggridge, William G., 288,567, Cl. D14-106.000.
Sutou, Masatoki; Nishiseko, Jun; Onishi, Takako; Yamagishi, Seichi; Anderson, Walter F., Jr.; and Sabo, Brian D., 290,969, Cl. D18-22.000.
Sutou, Masatoki; Maeda, Yutaka; Anderson, Walter F., Jr.; and Kochevar, James W., 293,390, Cl. D3-35.000.

Minost, Henri, to Beghin-Say, S.A. Dispensing box for cottonwood-tipped sticks or the like. 291,067, 7-28-87, Cl. D9-418.000.

Minost, Henri, to Beghin-Say, S.A. Modular tissue dispensing cart. 293,149, 12-8-87, Cl. D34-26.000.

Mintz, Jeffrey. Combined cutting board, serving dishes and support stand. 288,650, 3-10-87, Cl. D7-46.000.

Minuti, Furio, to Fratelli Guzzini S.p.A. Covered cake tray or similar article. 288,767, 3-17-87, Cl. D7-83.000.

Minuti, Furio, to Fratelli Guzzini S.p.A. Mixer with spherical bowl. 291,523, 8-25-87, Cl. D7-52.000.

Mio, Kenzo: *See*—
Eto, Masayoshi; Hidaka, Hiroshi; Mio, Kenzo; and Terauchi, Yukio, 289,765, Cl. D14-114.000.
Eto, Masayoshi; Hidaka, Hiroshi; Mio, Kenzo; and Terauchi, Yukio, 292,212, Cl. D14-111.000.

Miroslan, Etn. I. D'Haene & Zonen: *See*—
Billiet, Frank, 292,043, Cl. D6-300.000.
Billiet, Frank, 292,044, Cl. D6-300.000.

Miroyama, Toshiya: *See*—
Miyamoto, Isshin; Nagamatsu, Yasuo; Miroyama, Toshiya; and Sakamoto, Masaharu, 290,713, Cl. D18-1.000.

Misaka, Koichi: *See*—
Konishi, Tadahiro; and Misaka, Koichi, 288,426, Cl. D12-147.00.

Mise, Minoru, to Simmons Outdoor Corporation. Spotting scope. 288,213, 2-10-87, Cl. D16-132.000.

Mishiro, Benito: *See*—
Kitani, Natsu; Mishiro, Benito; and Sugiyama, Yoshihiko, 292,40, Cl. D14-111.000.

Miskinis, Robert J. Combined reusable extractor-stopper for laboratory glassware. 289,378, 4-21-87, Cl. D9-439.000.

Miskowic, Dragan: *See*—
Wallace, Robert; and Miskowic, Dragan, 291,860, Cl. D7-90.00.

Mitchell, James E. Doll. 292,724, 11-10-87, Cl. D21-174.000.

Mitchell, James E.: *See*—
Carr, David B.; Lingenfelter, Keith M.; Mitchell, James E.; Mor, Larry W.; Tag, Palmer I.; and Case, Robert, 287,634, Cl. D3-31.000.

Mitchell, Michael, to GTE Communication Systems Corporation. Housing for a desk telephone base. 290,461, 6-23-87, Cl. D14-60.0

Mitchell, Rodney W.: *See*—
Kotz, John A.; and Mitchell, Rodney W., 292,064, Cl. D8-37.00.

Mitchell, Vance, to ICI Scientific, Inc. Tube rack. 288,484, 2-24-87, D24-32.000.

Mitel Corporation: *See*—
Mahan, John A., 289,160, Cl. D14-58.000.
Negas, David A., 293,439, Cl. D14-58.000.

Mitsubishi Denki Kabushiki Kaisha: *See*—
Futatsugi, Mitsuyuki; Takizawa, Fuminobu; Yamazaki, Hiro; Suzuki, Masakatsu; Domon, Yoshihiro; and Fujita, Toshiro, 292,320, Cl. D26-3.000.
Futatsugi, Mitsuyuki; Domon, Yoshihiro; and Yamazaki, Hiro, 292,738, Cl. D26-3.000.
Rengeji, Yasuhiro; Sugimoto, Tomoaki; and Goto, Mas 289,130, Cl. D7-363.000.
Tomozawa, Hisashi; Ikeda, Hideyuki; Arai, Isao; and Sa Shigeru, 290,818, Cl. D10-49.000.

Mitsuboshi Belting Ltd.: *See*—
Fukuchi, Eiji, 289,512, Cl. D12-147.000.
Fukuchi, Eiji, 289,749, Cl. D12-141.000.
Fukuchi, Eiji, 289,993, Cl. D12-136.000.
Fukuchi, Eiji, 292,688, Cl. D12-147.000.
Fukuchi, Eiju, 289,508, Cl. D12-136.000.

Mitsumi Electric Co., Ltd.: *See*—
Naoi, Mitsuaki, 287,597, Cl. D14-114.000.

Mitton, William K. Combined rake and pitchfork. 292,261, 10-13-87, D8-13.000.

Mitutoyo Mfg. Co., Ltd.: *See*—
Takahashi, Seigo; Nishimura, Takeji; and Kozumi, Hiro 288,814, Cl. D14-100.000.

Miura, Takeo; and Kikuchi, Junji, to Honda Giken Kogyo Kabush Kaisha. Motorcycle. 290,824, 7-14-87, Cl. D12-110.000.

Miura, Yoshihiro: *See*—
Kijima, Seiichi; and Miura, Yoshihiro, 292,111, Cl. D21-160.0

Miyahira, Yoshinobu: *See*—
De Rego, Darryol A.; Reinhardt, James N.; and Miyahira, Y shinobu, 289,371, Cl. D8-349.000.

Miyake, Masao; and Takaishi, Nobuo, to Sharp Corporation. Air con tioner. 287,754, 1-13-87, Cl. D23-141.000.

Miyake, Masao; Takaishi, Nobuo; and Yokoyama, Shinichi, to Sha Corporation. Air conditioner. 288,474, 2-24-87, Cl. D23-141.00

Miyake, Masao; Takaishi, Nobuo; and Yokoyama, Shinichi, to Sha Corporation. Air conditioner. 288,475, 2-24-87, Cl. D23-141.00

...ake, Takao; Takashi, Nobuo; and Fuke, Mitsutaka, to Sharp Corporation. Front panel for a microwave oven. 292,864, 11-24-87, Cl. D7-351.000.

...amoto, Isshin; Nagamatsu, Yasuo; Miroyama, Toshiya; and Sakamoto, Masaharu, to Matsushita Electric Industrial Co., Ltd. Typewriter. 290,713, 7-7-87, Cl. D18-1.000.

...amoto, Isshin; Nagamatsu, Yasuo; Moriyama, Toshiya; and Sakamoto, Masaharu, to Matsushita Electric Industrial Co., Ltd. Combined typewriter and graphmaker. 290,714, 7-7-87, Cl. D18-1.000.

...amoto, Isshin; Nagamatsu, Yasuo; Moriyama, Toshiya; and Sakamoto, Masaharu, to Matsushita Electric Industrial Co., Ltd. Vacuum cleaner. 290,894, 7-14-87, Cl. D32-22.000.

...amoto, Isshin; Nagamatsu, Yasuo; Tanaka, Yasuhiko; Sakamoto, Masaharu; Hidaka, Masataka; and Sakamoto, Hideaki; to Matsushita Electric Industrial Co., Ltd. Typewriter. 291,324, 8-11-87, Cl. D18-1.000.

...amoto, Isshin; Nagamatsu, Yasuo; Tanaka, Yasuhiko; Hidaka, Masataka; Sakamoto, Masaharu; and Sakamoto, Hideaki, to Matsushita Electric Industrial Co., Ltd. Typewriter. 291,449, 8-18-87, Cl. D18-1.000.

...amoto, Isshin: *See*—
Moriyama, Toshiya; Sakamoto, Masaharu; Nagamatsu, Yasuo; and Miyamoto, Isshin. 289,764, Cl. D14-111.000.
Nagamatsu, Yasuo; Sakamoto, Masaharu; Moriyama, Toshiya; and Miyamoto, Isshin. 290,361, Cl. D14-111.000.

...amoto, Kohichi, to Ryobi Limited. Mitre saw. 287,694, 1-13-87, Cl. D8-66.000.

...amoto, Shiro: *See*—
Ooba, Yasuhiro; Yamamoto, Mitsuru; and Miyamoto, Shiro. 289,986, Cl. D12-107.000.

...shita, Shin, to Sony Corporation. Combined camera and video tape recorder or the like. 288,812, 3-17-87, Cl. D14-78.000.

...shita, Shin, to Sony Corporation. Video tape recorder or the like. 288,923, 3-24-87, Cl. D14-2.000.

...shita, Shin, to Sony Corporation. Video tape recorder or the like. 289,158, 4-7-87, Cl. D14-2.000.

...ata, Mitsuteru, to Sumitomo Rubber Industries, Ltd. Automobile tire. 287,839, 1-20-87, Cl. D12-146.000.

...zaki, Mamoru: *See*—
Umezu, Mitsuhiro; Nakajima, Tooru; Kikkawa, Hiroshi; and Miyazaki, Mamoru, 293,317, Cl. D14-52.000.

...zaki, Masayoshi: *See*—
Hujimori, Slirou; and Miyazaki, Masayoshi, 293,242, Cl. D14-100.000.

...zaki, Mitsunori, to Toyota Jidosha Kabushiki Kaisha. Rear combination lamp for an automobile. 291,924, 9-15-87, Cl. D26-28.000.

...oshi, Shigeharu, to Aruman Co., Ltd. Disposable inhaler. 288,852, 3-17-87, Cl. D24-62.000.

...ema, Kensuke: *See*—
Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, 287,924, Cl. D7-351.000.
Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, 287,925, Cl. D7-351.000.
Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, 290,805, Cl. D7-351.000.
Kubo, Masayoshi; Mizuma, Kensuke; Ichihara, Masuo; and Harada, Toshio, 291,048, Cl. D7-351.000.

...mo, Shigeo: *See*—
Takahashi, Masaki; and Mizuno, Shigeo, 288,121, Cl. D23-139.000.

...shima, Sadao; Ichikawa, Tadao; and Okada, Kenichi, to Honda Giken Kogyo Kabushiki Kaisha; and Ohtsu Tire & Rubber Co., Ltd., Tire. Road wheel tire. 288,546, 3-3-87, Cl. D12-146.000.

...t, John R. Boat. 292,908, 11-24-87, Cl. D12-300.000.

...ol Gil Corporation: *See*—
Holden, M. James, 288,295, Cl. D9-425.000.

...Klette, John T.; Smith, Harry O.; and Bruns, Eugene C., 291,658, Cl. D9-352.000.

...Mangla, Raj K., 291,533, Cl. D9-345.000.

...Reimann, George J.; Benoit, Gordon L.; Gavin, James R.; and Schneider, Michael A., 290,226, Cl. D9-305.000.

...hizuki, Nobutoshi, to Citizen Watch Co., Ltd. Printer. 290,967, 12-1-87, Cl. D18-1.000.

...hizuki, Takeshi: *See*—
Hatano, Hiroaki; and Mochizuki, Takeshi, 290,365, Cl. D15-10.000.

...dern Car Development Gesellschaft m.b.H.: *See*—
Himmelreich, Norbert, 291,551, Cl. D12-156.000.

...dern Home Products Corp.: *See*—
Koziol, Walter, 289,003, Cl. D7-407.000.
Koziol, Walter, 291,646, Cl. D7-332.000.

...dern Royal Co., Ltd.: *See*—
Ichikawa, Kaname, 290,525, Cl. D27-41.000.
Ichikawa, Kaname, 291,369, Cl. D27-41.000.
Ichikawa, Kaname, 293,382, Cl. D27-41.000.

...ller, Jorgen J., to Danfoss A/S. Casing for an electronic AC speed control unit. 287,718, 1-13-87, Cl. D13-40.000.

...ller, Jorgen J., to Danfoss A/S. Casing for a speed control device or the like. 292,914, 11-24-87, Cl. D13-40.000.

...gridge, William G., to Minolta Camera Kabushiki Kaisha. Combute key assembly for directional control of a cursor on a computer splay screen. 287,598, 1-6-87, Cl. D14-114.000.

...gridge, William G., to Minolta Camera Kabushiki Kaisha. Printer ...ssing. 288,324, 2-17-87, Cl. D14-111.000.

...gridge, William G., to Minolta Camera Kabushiki Kaisha. Word ...cessor system with a CRT display and printer. 288,446, 2-24-87, ... D14-106.000.

Moggridge, William G., to Minolta Camera Kabushiki Kaisha. Word processor with CRT display. 288,567, 3-3-87, Cl. D14-106.000.

Mohri, Akinari, to Sony Corporation. Combined video camera and tape recorder or the like. 290,120, 6-2-87, Cl. D14-78.000.

Molee, Kenneth J.; and Becker, Patricia E., to Personal Products Company. Sanitary napkin with adhesive attachment pattern. 288,851, 3-17-87, Cl. D24-51.000.

Moller International, Inc.: *See*—
Moller, Paul S., 292,194, Cl. D12-5.000.

Moller, Jens P., to Buch & Deichmann A/S. Combined display panel, shelf and rod. 288,764, 3-17-87, Cl. D6-566.000.

Moller, Paul S., to Moller International, Inc. Airborne vehicle. 292,194, 10-6-87, Cl. D12-5.000.

Molnlycke Aktiebolag: *See*—
Hanssen, Carl O.; and Lundstrom, Thomas, 288,853, Cl. D24-99.000.
Hanssen, Carl-Otto; and Starzmann, Bo M., 292,023, Cl. D24-49.000.
Hanssen, Carl-Otto; and Starzmann, Bo M., 292,024, Cl. D24-49.000.
Iwarsson, Jan, 293,058, Cl. D6-523.000.
Ternstrom, Maj I., 287,881, Cl. D24-51.000.
Wallstrom, Leif K., 288,363, Cl. D24-51.000.

Moloney, Thomas E.; Chernikoff, Nelson N.; Traczyk, Edward S.; Shulski, Michael M.; Cassidy, Edward K.; and Mann, John M., to National Can Corporation. Can. 290,688, 7-7-87, Cl. D9-398.000.

MOMO S.p.A.: *See*—
Cattaneo, Marco, 292,693, Cl. D12-211.000.

Momota, Nobuo: *See*—
Nishiyori, Hiroaki; Momota, Nobuo; Yoshikawa, Masao; Sai, Akishige; and Masunari, Kazutoshi, 291,441, Cl. D14-77.000.

Monaghan, Carey M., to Campbell Soup Company. Food container. 288,648, 3-10-87, Cl. D7-17.000.

Monark AB: *See*—
Breger, Carl-Arne, 292,225, Cl. D21-194.000.
Ostrom, Sven, 292,304, Cl. D21-194.000.

Monell, Gert A. N. Insulating member for livestock-enclosure fences. 289,493, 4-28-87, Cl. D8-364.000.

Monesi, Mauro, to Castelli S.p.A. Chair. 291,159, 8-4-87, Cl. D6-366.000.

Monesi, Mauro, to Castelli S.p.A. Chair. 292,149, 10-6-87, Cl. D6-380.000.

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Irvine, William F.; and Monize, George, 288,451, Cl. D21-195.000.

Monod, Veronique, to Parfums Christian Dior. Combined bottle and stopper therefor. 288,782, 3-17-87, Cl. D9-385.000.

Monostory, Egon. Jet powered surfboard. 289,031, 3-31-87, Cl. D12-107.000.

Monroe, Julie. Toy figure. 293,006, 12-1-87, Cl. D21-168.000.

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Taylor, Larry M.; and Wethereil, Richard B., Jr., 288,294, Cl. D9-408.000.
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Taylor, Larry M., 291,284, Cl. D9-412.000.

Montalbano, Anthony P.; and Conroy, David E., to Biolectron, Inc. Test instrument for electric body stimulator. 290,095, 6-2-87, Cl. D10-78.000.

Montalbano, Anthony P.; and Conroy, David E., to Biolectron, Inc. Electrical body stimulator. 290,751, 7-7-87, Cl. D24-41.000.

Montalvo, Oscar. Detachable collar. 290,545, 6-30-87, Cl. D2-602.000.

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Thevenot, Gilles, 289,425, Cl. D19-49.000.

Montesi, Edward N., to Siebe North, Inc. Yoke for a respirator. 288,730, 3-10-87, Cl. D29-7.000.

Monturas y Formituras, S.A. (MYFSA): *See*—
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Monzen, Takashi, to Terumo Kabushiki Kaisha. Holder ring for cardiotomy reservoir. 291,650, 9-1-87, Cl. D8-72.000.

Monzen, Takashi; and Wada, Masaru, to Terumo Corporation. Cardiotomy reservoir. 291,920, 9-15-87, Cl. D24-56.000.

Moody, Carl T., to Arkansas Hones, Inc. Multi-stone hone. 290,222, 6-9-87, Cl. D8-91.000.

Moomaw, David E., to Quaker Oats Company, The. Toy spaceship component. 289,068, 3-31-87, Cl. D21-91.000.

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Nagode, Larry R.; and Moomaw, David E., 290,859, Cl. D21-124.000.

Moon, Howard R., to EZ Paintr Corporation. Combined paint roller and spatter shield. 292,450, 10-27-87, Cl. D4-122.000.

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Grambush, Douglas H.; and Moore, Alix A., 292,922, Cl. D14-64.000.

Moore Business Forms, Inc.: *See*—
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Moore, Franklin, Jr.; and Fultz, Clinton, to Progressive Paper Products, Inc. Combined retaining and dispensing rack for food containers or the like. 290,563, 6-30-87, Cl. D6-463.000.

Moore, Gary L. Cable finder. 290,586, 6-30-87, Cl. D10-46.000.

Moore, Harold J. Folding golf cart. 292,039, 9-22-87, Cl. D34-15.000.

Moore, John W., to Swan Corporation, The. Shower stall soap dish. 293,401, 12-29-87, Cl. D6-540.000.

Moore, Larry W., to Abbott Laboratories. Fluid container for chemical analyzer or the like. 287,632, 1-6-87, Cl. D24-29.000.

Moore, Larry W.; and Lingenfelter, Keith M., to Abbott Laboratories. Reagent container or the like. 287,638, 1-6-87, Cl. D24-56.000.

Moore, Larry W.; and Lingenfelter, Keith M., to Abbott Laboratories. Sample cup or the like. 287,639, 1-6-87, Cl. D24-56.000.

Moore, Larry W., to Abbott Laboratories. Probe for aspirating and dispensing sample fluid in a clinical chemistry analyzer. 290,650, 6-30-87, Cl. D24-7.000.

Moore, Larry W.: *See*—
Carr, David B.; Lingenfelter, Keith M.; Mitchell, James E.; Moore, Larry W.; Tag, Palmer L.; and Case, Robert, 287,634, Cl. D24-31.000.

Moore, Loyd C., to Output Technology Corporation. Electronic printer. 293,246, 12-15-87, Cl. D14-111.000.

Moore, Michael G.: *See*—
Kifer, Harlan E.; Litner, Richard C.; Megregian, Richard; and Moore, Michael G., 292,398, Cl. D14-10.000.

Moore, William S., to Camper's Kitchen, Inc. Portable cupboard. 289,946, 5-26-87, Cl. D3-30.100.

Mora, David L. Stand for test tubes or the like. 288,483, 2-24-87, Cl. D24-32.000.

Morales, Anthony E. Fire escape pole. 293,476, 12-29-87, Cl. D25-64.000.

Morales, Liborio D. Foldable, self-supporting, adjustable book holder. 288,213, 2-10-87, Cl. D19-91.000.

Moran, Charles: *See*—
Tucker, Roger; Gillam, Paul A.; Wright, Peter; Whitehouse, Donald; Broadbent, Michael C.; and Moran, Charles, 290,742, Cl. D23-97.000.
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Morfee Industries Ltd.: *See*—
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Morgan, Annis R., Jr.; and Williford, Hugh S., to Coca-Cola Company, The. Vending machine. 290,142, 6-2-87, Cl. D20-5.000.

Morgan, Annis R., Jr.; King, Eddie W.; Brandes, J. Henry; and Lettera, James N., to Coca-Cola Company, The. Island vending machine. 292,993, 12-1-87, Cl. D20-5.000.

Morgan, Eugene L., to Printos Marsh Corporation. Terminal console. 289,166, 4-7-87, Cl. D14-100.000.

Morgan, Frederick M., to Champion Spark Plug Company. Air compressor. 293,446, 12-29-87, Cl. D15-9.000.

Morgan, Scott E. Spiral cribbage scorer. 291,417, 8-18-87, Cl. D10-46.100.

Morgenstern, Stanley W., to Patmar Corporation, The. Bear figure. 288,582, 3-3-87, Cl. D21-159.000.

Mori, Shinya, to Nissan Motor Co., Ltd. Automobile taillight. 293,134, 12-8-87, Cl. D26-35.000.

Morikawa, Hiroshi: *See*—
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Morimoto, Masayuki: *See*—
Griffis, James D.; and Morimoto, Masayuki, 290,499, Cl. D23-146.000.

Morin, Andre, to Andre Morin Designers Inc. Wall mounted support. 293,185, 12-15-87, Cl. D6-553.000.

Morinaga, Shin-ichi: *See*—
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Kukita, Jyoji; Tsukamoto, Naoki; and Morinaga, Shin-ichi, 290,114, Cl. D14-6.000.

Morioka, Kyouichi; Takahashi, Tsuneo; Andoh, Takaharu; and Washizuka, Keiichi, to Kabushiki Kaisha Toshiba; and Tokyo Electric Co., Ltd. Electric vacuum cleaner. 288,972, 3-24-87, Cl. D32-24.000.

Morioka, Kyouichi: *See*—
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Morishita, Yasuji: *See*—
Shibuya, Shinji; Adachi, Koushirou; and Morishita, Yasuji, 290,844, Cl. D14-109.000.

Morita, Uko. Table lamp. 290,523, 6-23-87, Cl. D26-78.000.

Morita, Uko. Table lamp. 290,885, 7-14-87, Cl. D26-110.000.

Moritani, Hiroshi, to Sharp Corporation. Microwave oven. 293,410, 12-29-87, Cl. D7-351.000.

Moriyama, Toshiya; Sakamoto, Masaharu; Nagamatsu, Yasuo; and Miyamoto, Isshin, to Matsushita Electric Industrial Co., Ltd. Printer. 289,764, 5-12-87, Cl. D14-111.000.

Moriyama, Toshiya: *See*—
Miyamoto, Isshin; Nagamatsu, Yasuo; Moriyama, Toshiya; and Sakamoto, Masaharu, 290,714, Cl. D18-1.000.
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Heggdal, Kjell A.; Haukvik, Ola; Relling, Harald; Lunde, Martin; and Mork, Harry, 291,265, Cl. D6-367.000.

Morozumi, Kiyotaka; Hashimoto, Masanori; and Minagawa, Masahiro, to Ricoh Company, Ltd. Laser printer. 291,095, 7-28-87, Cl. D18-13.000.

Morozumi, Kiyotaka, to Ricoh Company, Ltd. Electrostatic copying machine. 292,591, 11-3-87, Cl. D16-31.000.

Morozumi, Kiyotaka, to Ricoh Company, Ltd. Electrostatic copying machine. 292,593, 11-3-87, Cl. D16-31.000.

Morris, Allen M. Retractable speaker enclosure. 291,800, 9-8-87, Cl. D14-33.000.

Morris, David L., to HTD, Inc. Insulated container. 291,643, 9-1-87, Cl. D7-77.000.

Morris, Edward; and Woodruff, Keith, to American Cyanamid Company. Cap for a container. 292,674, 11-10-87, Cl. D9-439.000.

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Morris, Larry D. Vehicle operator's fold up foot rest. 288,187, 2-10-87, Cl. D12-114.000.

Morris, Paul E., to Pelouze Scale Co. Timer. 287,699, 1-13-87, Cl. D10-40.000.

Morris, Reny G., to Knight, Jeffrey E., a part interest. Display rack. 291,166, 8-4-87, Cl. D6-476.000.

Morrison, David W.; and Samson, Wilfred J., to Advanced Cardiovascular Systems, Inc. Injector for introducing contrast agents into blood vessels. 289,434, 4-21-87, Cl. D24-24.000.

Morrison, Howard J.: *See*—
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Bullock, Brian P.; and Morrison, Howard J., 293,105, Cl. D14-53.000.
Zaruba, John V.; Conti, Rino; and Morrison, Howard J., 290,92[illegible], Cl. D7-43.000.

Morrison, James B. Face panel for fluid level monitor. 288,417, 2-24-87, Cl. D10-103.000.

Morrison, Sylvia A. Toy retaining device. 289,533, 4-28-87, Cl. D21-62.000.

Morrissette, Roger J. Cart. 288,497, 2-24-87, Cl. D34-24.000.

Morrissette, Roger J. Cart. 289,816, 5-12-87, Cl. D34-24.000.

Morrissette, Roger J. Cart. 289,817, 5-12-87, Cl. D34-25.000.

Morrissette, Roger J. Cart. 292,338, 10-13-87, Cl. D34-24.000.

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Morten, John F. Fluorescent lighting fixture. 291,928, 9-15-87, Cl. D26-76.000.

Mortensen Educational Products, Inc.: *See*—
Mortensen, Vernon J., 291,900, Cl. D21-54.000.

Mortensen, Vernon J., to Mortensen Educational Products, Inc. Rack for holding cards used in teaching mathematics. 291,900, 9-15-87, Cl. D21-54.000.

Mortimer, Frank R.: *See*—
Daykin, Kevin J.; and Mortimer, Frank R., 288,797, Cl. D10-129.000.

Mortimer, George H., to Carb-A-Drink International, Inc. Combined multiple liquid dispenser and cabinet. 287,688, 1-13-87, Cl. D7-307.000.

Mortimer, George H., to Carb-A-Drink International, Inc. Combined multiple liquid dispenser and cabinet. 287,689, 1-13-87, Cl. D7-307.000.

Mortimer, George H., to Carb-A-Drink International, Inc. Combined multiple liquid dispenser and cabinet. 288,516, 3-3-87, Cl. D7-307.00[illegible].

Mortvedt, Raymond L.; and Thompson, Stephen M., to Ektelon Racquetball racquet. 290,487, 6-23-87, Cl. D21-212.000.

Mortvedt, Raymond L.; and Thompson, Stephen M. Racquetball racquet. 290,633, 6-30-87, Cl. D21-212.000.

Moscovitch, Jerry N., to Engineered Design Inc. Operator's cab for a crane. 288,206, 2-10-87, Cl. D15-30.000.

Moselli, Giulia, to Yeu Tyan Machinery Mfg. Co., Ltd. Motorcycle. 287,833, 1-20-87, Cl. D12-110.000.

Moser, Debbie. Knitted mitten. 289,944, 5-26-87, Cl. D2-622.000.

Moser, Ludwig M.; and Kammermeier, Anton, to Westra Electronic GmbH. Integral audiometer desk. 288,598, 3-3-87, Cl. D24-1.100.

Moser, Ludwig M.; and Kammermeier, Anton, to Westra Electronic GmbH. Two-component audiometer desk. 288,715, 3-10-87, Cl. D24-1.100.

Moshiri, Moussa. Orthopedic cane. 290,784, 7-14-87, Cl. D3-7.000.

Moskalik, Michael P., to Gilmour Manufacturing Co. Tank for garden sprayer. 288,586, 3-3-87, Cl. D23-2.000.

Moskin, Jeffrey M.; and Wertz, Keith J. Device for imparting rocking motion to infant stroller. 288,679, 3-10-87, Cl. D12-133.000.

Moskin, Jeffrey M., to Mabco, Inc. Electronic game machine with integral timer. 291,455, 8-18-87, Cl. D21-13.000.

Moss, Paul L.: *See*—
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Scheid, William J., and Clayton, Bruce A., 290,842, Cl. D14-68.000.
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Wang, Clark; and Zychowski, Edward M., 289,399, Cl. D14-114.000.
Widener, Teresa L.; Prilliman, Richard L.; Wilhelm, James B., Jr.; Barger, Donna A.; and Trombley, Valerie J., 288,732, Cl. D29-15.000.
Motta, Kenneth F. Shelf bracket. 291,655, 9-1-87, Cl. D8-381.000.
Motta, Kenneth F. Closet shelf. 292,860, 11-24-87, Cl. D6-566.000.
Mottais, Philippe J., to Atlas Design Corp. Multiple cabinet unit. 288,393, 2-24-87, Cl. D6-436.000.
Motts, Brian C. Airship. 291,216, 8-4-87, Cl. D21-90.000.
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Movshovitz, Avner, to Amcor Ltd. Cleanable fluid filter. 290,639, 6-30-87, Cl. D23-4.000.
Mower, Peter; and Pethers, Peter C., to Trico Products Corporation. Vehicle windshield wiper unit. 287,709, 1-13-87, Cl. D12-155.000.
Mowrer, Kevin B., to Wang Laboratories, Inc. Combined data and voice communication terminal. 290,008, 5-26-87, Cl. D14-106.000.
Mowrer, Kevin B., to Wang Laboratories, Inc. Combined data and voice communication terminal. 290,009, 5-26-87, Cl. D14-106.000.
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Muenscher, Wolfgang; and Schoen, Siegfried, to Siemens Aktiengesellschaft. Housing for a cordless telephone or similar article. 289,288, 4-14-87, Cl. D14-63.000.
Muenscher, Wolfgang; and Schoen, Siegfried, to Siemens Aktiengesellschaft. Base station for a cordless telephone or the like. 291,884, 9-15-87, Cl. D14-60.000.
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Muller, Ingeborg, to Stupsi-Puppen GmbH. Doll. 291,584, 8-25-87, Cl. D21-166.000.
Muller, Peter, to AS Electronics AG. Radio. 293,107, 12-8-87, Cl. D14-68.000.
Muller, Ronald L., to North American Philips Corporation. Scale. 288,071, 2-3-87, Cl. D10-92.000.
Muller, Ronald L., to North American Philips Corporation. Hair dryer. 288,726, 3-10-87, Cl. D28-13.000.
Muller, Ronald L.; and Adams, Duane D., to North American Philips Corporation. Curling iron. 289,089, 3-31-87, Cl. D28-35.000.
Muller, Ronald L., to North American Philips Corporation. Hair dryer. 290,528, 6-23-87, Cl. D28-13.000.
Muller, Ronald L.; and Rakocy, William J., to North American Philips Corporation. Hand-held can opener. 292,367, 10-20-87, Cl. D8-41.000.
Muller, Ronald L.; and Rakocy, William J., to North American Philips Corporation. Lighted make-up mirror. 292,544, 11-3-87, Cl. D6-308.000.
Muller, Ronald L.; and Rakocy, William J., to North American Philips Corporation. Lighted make-up mirror. 292,652, 11-10-87, Cl. D6-308.000.
Muller, Ronald L.; and Rakocy, William J., to North American Philips Corporation. Charger base for a battery-operated can opener. 292,912, 11-24-87, Cl. D13-6.000.
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Murphy, Kent W., to Rubbermaid Incorporated. Wall-mounted shelf and rod combination. 293,404, 12-29-87, Cl. D6-574.000.
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Murtagh, William O., to Gerity Products, Inc. Desk accessory. 292,717, 11-10-87, Cl. D19-84.000.
Murtaugh, Bernard H. Hub removing tool. 292,963, 12-1-87, Cl. D8-51.000.
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Muscat, Peter P. Automobile convertible top. 291,552, 8-25-87, Cl. D12-156.000.
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Myers, Patricia A. Sun visor for child's car seat. 289,473, 4-28-87, Cl. D6-611.000.
Myojo, Seiji, to Shimano Industrial Company Limited. Fishing reel. 290,988, 7-21-87, Cl. D22-141.000.
Myojo, Seiji, to Shimano Industrial Company Limited. Fishing reel. 291,109, 7-28-87, Cl. D22-141.000.
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Nace, James E. Belt mounted telephone cradle. 288,565, 3-24-87, Cl. D3-106.000.
Nadel, Murray. Cosmetic box. 290,536, 6-23-87, Cl. D28-83.000.
Naeki, Yoshihiro, to Daiwa Seiko, Inc. Line guide for fishing reel. 290,637, 6-30-87, Cl. D22-143.000.
Naft, Stuart, to Black & Decker Inc. Light sensitive night light. 288,967, 3-24-87, Cl. D26-26.000.
Nagai, Gen; Ohsawa, Takao; Takayama, Hideki; and Takahashi, Masao, to Hitachi, Ltd. Electric washing machine. 292,629, 11-3-87, Cl. D32-6.000.
Nagai, Gen; Ohsawa, Takao; Takayama, Hideki; and Hikino, Keiji, to Hitachi, Ltd. Clothes dryer. 292,630, 11-3-87, Cl. D32-8.000.
Nagamatsu, Yasuo; Sakamoto, Masaharu; Moriyama, Toshiya; and Miyamoto, Ishin, to Matsushita Electric Industrial Co., Ltd. Printer. 290,361, 6-1 -87, Cl. D14-111.000.

Nagamatsu, Yasuo: *See*—
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Miyamoto, Isshin; Nagamatsu, Yasuo; Tanaka, Yasuhiko; Hidaka, Masataka; Sakamoto, Masaharu; and Sakamoto, Hideaki. 291,449, Cl. D18-1.000.
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Nagano, Koji, to Nissan Motor Co., Ltd. Automobile grill. 288,085, 2-3-87, Cl. D12-163.000.
Nagano, Toshiaki, to Shinsei Kogyo Co., Ltd. Reconfigurable toy vehicle. 289,665, 5-5-87, Cl. D21-136.000.
Nagano, Toshiaki. Metamorphic toy vehicle. 289,908, 5-19-87, Cl. D21-140.000.
Nagase Gomukogyo Kabushiki Kaisha: *See*—
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Hirai, Masakazu. 288,462, Cl. D21-205.000.
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Nagele, Albert L., to Motorola, Inc. Vehicular battery charger or similar article. 288,432, 2-24-87, Cl. D13-5.000.
Nagele, Albert L., to Motorola, Inc. Keyboard stand for a telephone handset transceiver. 290,355, 6-16-87, Cl. D14-62.000.
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Nagode, Larry R.; and Moomaw, David E., to Quaker Oats Company, The. Toy lawnmower. 290,859, 7-14-87, Cl. D21-124.000.
Nagumo, Tadanobu; Hiraga, Tadayoshi; Mama, Riichiro; Harashima, Tadashi; and Kuramochi, Izumi, to Yokohama Rubber Co., Ltd., The. Automobile tire. 290,105, 6-2-87, Cl. D12-146.000.
Nakade, Kenichi, to Ricoh Company, Ltd. Laser printer. 291,094, 7-28-87, Cl. D18-13.000.
Nakade, Kenichi, to Ricoh Company, Ltd. Laser printer. 293,247, 12-15-87, Cl. D14-111.000.
Nakagawa, Masao; and Hayakawa, Toshio, to Bridgestone Corporation. Motorcycle tire. 288,191, 2-10-87, Cl. D12-147.000.
Nakagawa, Takehisa; Huke, Mitsutaka; and Hatta, Chikako, to Sharp Corporation. Toaster oven. 292,469, 10-27-87, Cl. D7-350.000.
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Nakamura, Hideo, to Daiwa Seiko, Inc. Fishing reel. 290,635, 6-30-87, Cl. D22-140.000.
Nakamura, Hideo, to Daiwa Seiko, Inc. Fishing reel. 291,473, 8-18-87, Cl. D22-140.000.
Nakamura, Hitoshi; and Ohtsuji, Tetsuo, to Pioneer Electronic Corporation. Loudspeaker. 290,699, 7-7-87, Cl. D14-34.000.
Nakamura, Kazuharu, to Toyotomi Kogyo Co., Ltd. Electric radiant heater. 287,617, 1-6-87, Cl. D23-123.000.
Nakamura, Kazuharu, to Toyotomi Kogyo Co., Ltd. Electrical radiant heater. 289,547, 4-28-87, Cl. D23-123.000.
Nakamura, Kazuharu, to Toyotomi Kogyo Co., Ltd. Electrical radiant heater. 289,679, 5-5-87, Cl. D23-123.000.
Nakamura, Kazuharu, to Toyotomi Kogyo Co., Ltd. Electric radiant heater. 290,036, 5-26-87, Cl. D23-123.000.
Nakamura, Kazuharu, to Toyotomi Kogyo Co., Ltd. Electric radiant heater. 290,391, 6-16-87, Cl. D23-123.000.
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Nakamura, Yuji; Udagawa, Junichi; and Nakao, Kazuhiko, to Kabushiki Kaisha Toshiba. Washing machine. 289,212, 4-7-87, Cl. D32-6.000.
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Nakane, Shigeru, to Takara Co., Ltd. Toy gun watch. 287,574, 1-6-87, Cl. D10-33.000.
Nakano, Hiroshi: *See*—
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Nakano, Koji; and Nakano, Hiroshi, to Honda Giken Kogyo Kabushiki Kaisha. Motorcycle. 288,796, 3-17-87, Cl. D12-110.000.
Nakano, Yoshihito, to Kitagawa Industries Co., Ltd. Hinge. 291,408, 8-18-87, Cl. D8-325.000.
Nakano, Yoshihito, to Kitagawa Industries Co., Ltd. Mini electric wire clamp. 293,205, 12-15-87, Cl. D8-395.000.
Nakano, Yoshihito, to Kitagawa Industries Co., Ltd. Electric wire clamp. 293,207, 12-15-87, Cl. D8-396.000.
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Nakao, Shinroku; Kobayashi, Kouichi; Ishii, Yoshiyasu; and Matsuda, Hiroaki, to Combi Co., Ltd. Baby stroller. 288,544, 3-3-87, Cl. D12-129.000.
Nakao, Shinroku; Ishii, Yoshiyasu; and Fujiyama, Tetsumi, to Combi Co., Ltd. Toy vehicle. 290,029, 5-26-87, Cl. D21-77.000.
Nakao, Shinroku; Ishii, Yoshiyasu; and Ishii, Kenshun, to Combi Co., Ltd. Ergometer. 290,149, 6-2-87, Cl. D21-194.000.
Nakao, Shinroku; Ishii, Yoshiyasu; and Matsumoto, Susumu, to Combi Co., Ltd. Convertible high chair. 291,156, 8-4-87, Cl. D6-338.000.
Nakao, Shinroku; Ishii, Yoshiyasu; and Hanashima, Taira, to Combi Co., Ltd. Toy vehicle. 291,214, 8-4-87, Cl. D21-76.000.
Nakao, Shinroku; Ishii, Yoshiyasu; and Hanashima, Taira, to Combi Co., Ltd. Toy vehicle. 293,329, 12-22-87, Cl. D21-78.000.
Nakaseko, Kozaburo, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,082, 2-3-87, Cl. D12-147.000.
Nakaseko, Kozaburo, to Sumitomo Rubber Industries, Ltd. Automobile tire. 290,826, 7-14-87, Cl. D12-147.000.
Nakata, Toshiaki, to Plus Corporation. Case for writing instruments. 291,947, 9-22-87, Cl. D3-74.000.
Nakatani, Akihiro, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,192, 2-10-87, Cl. D12-147.000.
Nakatani, Koma, to Velbon International Corp. Tubular leg clamp. 291,061, 7-28-87, Cl. D8-396.000.
Nakatani, Koma, to Velbon International Corporation. Collapsible easel. 291,153, 8-4-87, Cl. D6-312.000.
Nakatani, Koma, to Velbon International Corp. Pan head assembly. 292,982, 12-1-87, Cl. D16-46.000.
Nakayama, Muneo: *See*—
Uehara, Akira; Hijikata, Isamu; Nakane, Hisashi; and Nakayama, Muneo. 291,413, Cl. D9-367.000.
Nakayama, Toshio, to Tokyo Kogaku Kikai Kabushiki Kaisha. Stand for mounting ophthalmologic instruments. 292,526, 10-27-87, Cl. D24-1.100.
Nakazawa, Hiroshi; and Koida, Kazushi, to Seibido Co. Ltd.; and Sanyei Corp. Hong Kong Ltd. Combined camera and film cassette therefor. 287,976, 1-27-87, Cl. D16-1.000.
Nakazawa, Tetsuya. *See*—
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Nan Zong Leather Products Co., Ltd.: *See*—
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Nanjou, Tsuguo: *See*—
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Napflin, Hans. Device for converting a downhill ski binding to a cross-country ski binding. 290,490, 6-23-87, Cl. D21-230.000.
Napiorkowski, John J.: *See*—
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Narain, Terence Y. Combination trivet and serving tray. 292,357, 10-20-87, Cl. D7-21.000.
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Narveson, Brian C.; and Toth, John, to Teradyne, Inc. Remote isolation device module. 291,559, 8-25-87, Cl. D13-99.000.
Nathan, Walter; and Zucker, Armand S., to RTC Industries, Inc. Modular shipping tray for packaged goods. 288,784, 3-17-87, Cl. D9-456.000.
Nathan, Walter; and Zucker, Armand S., to RTC Industries, Inc. Side wall for a dispenser for cans or bottles. 290,566, 6-30-87, Cl. D6-492.000.
Nathan, Walter; and Zucker, Armand S., to RTC Industries, Inc. Slide track for a dispenser for cans or bottles. 290,670, 7-7-87, Cl. D6-511.000.
Nathan, Walter; and Zucker, Armand S., to RTC Industries, Inc. Dispenser rack for cans or bottles. 290,790, 7-14-87, Cl. D6-408.000.
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National Wire and Stamping, Inc.: *See*—
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Natori, Shuji: *See*—
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Nava, Rinaldo, 291,209, Cl. D19-26.000.
Nava, Rinaldo, to Nava Milano S.p.A. Combined notebook, calculator and casing therefor. 290,375, 6-16-87, Cl. D19-26.000.
Nava, Rinaldo, to Nava Milano S.p.A. Combined notebook, calculator and casing therefor. 291,209, 8-4-87, Cl. D19-26.000.

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Nead, Dean P. Snap-on hanger collar for pipes and the like. 289,138, 4-7-87, Cl. D8-356.000.
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Ogura, Hiromi, 291,310, Cl. D14-68.000.
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Nellis, Betty A. Two handle roller. 290,214, 6-9-87, Cl. D7-99.000.
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Nelson, John R., to Invivo Research Laboratories, Inc. IV fluid flow rate meter. 292,610, 11-3-87, Cl. D24-17.000.
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Nelson, Preston. Shoulder and back weight for exercising. 293,354, 12-22-87, Cl. D21-196.000.
Nelson, Stewart C. Automatic juicing machine. 291,857, 9-15-87, Cl. D7-49.000.
Nelson, Victor H. Microwave switch housing. 288,315, 2-17-87, Cl. D13-32.000.
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Newman, Frank H. C., to U.S. Philips Corporation. Combined car radio and cassette player. 292,795, 11-17-87, Cl. D14-5.000.
Newton, Brian L.; Ptaszek, George W.; and Zieff, Mark P., to Dart Industries Inc. Game board or the like. 288,697, 3-10-87, Cl. D21-17.000.
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Neyer, Robert J. Liquid dispenser. 289,610, 5-5-87, Cl. D9-320.000.
Nezu, Shigeru; and Uematsu, Sakae, to Canon Kabushiki Kaisha. Data display terminal. 292,213, 10-6-87, Cl. D14-113.000.
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Nibley, Richard; and Haranishi, Noriaki, to Canon Kabushiki Kaisha. Electronic typewriter. 291,580, 8-25-87, Cl. D18-1.000.
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Nilsson, Aina K., to Saab-Scania Aktiebolag. Front floor mat for an automobile. 291,986, 9-22-87, Cl. D12-203.000.
Nilsson, Hans-Erik; and Carlsson, Ake, to Infrarodteknik AB. Travelling carrier for heating elements in a paint spray booth. 287,749, 1-13-87, Cl. D23-77.000.
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Nimmons, Kenneth W., to Schutt Manufacturing Company. Faceguard for a helmet. 289,568, 4-28-87, Cl. D29-16.000.
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Nishida, Yoshiaki, to Kabushiki Kaisha Toshiba. Bank note wrapper. 289,098, 3-31-87, Cl. D99-28.000.
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Nishikawa, Hideo, to Imanishi Kinzoku Kogyo Kabushiki Kaisha. Humidifier. 289,325, 4-14-87, Cl. D23-146.000.
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Noda, Seijiro, to Nippon Kogaku K.K. Camera. 289,175, 4-7-87, Cl. D16-6.000.
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Nuttall, Michael J.; Freige, Diab E.; and Keely, Leroy B., to Convergent Technologies, Inc. Monitor. 291,085, 7-28-87, Cl. D14-113.000.
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Oh, Chang H., to J & L Importers, Inc. Cooking utensil or similar article. 292,362, 10-20-87, Cl. D7-360.000.

Oh, Chang H., to J & L Importers, Inc. Fry pan or similar article. 292,363, 10-20-87, Cl. D7-360.000.

Oh, Chang H., to J&L Importers, Inc. Fry pan or similar article. 292,470, 10-27-87, Cl. D7-354.000.

Oh, Chang H., to J&L Importers, Inc. Cooking utensil or similar article. 292,471, 10-27-87, Cl. D7-360.000.

Oh, Chang H., to J&L Importers, Inc. Fry pan or similar article. 292,472, 10-27-87, Cl. D7-360.000.

O'Hara, Robert J.: *See*—
Knowlton, Christopher M.; and O'Hara, Robert J., 291,932, Cl. D32-4.000.

Ohashi, Keiichi, to Skylite Industry Co., Ltd. Combined portable light and radio. 293,481, 12-29-87, Cl. D26-38.000.

Ohaus Scale Corporation: *See*—
Myers, Earl D., 288,302, Cl. D10-90.000.

Ohkawa, Hiroshi, to Tomy Kogyo Co., Inc. Toy vehicle. 293,002, 12-1-87, Cl. D21-87.000.

Ohkuni, Shinichiro: *See*—
Hayakawa, Toshio; and Ohkuni, Shinichiro, 291,874, Cl. D12-147.000.
Hayakawa, Toshio; and Ohkuni, Shinichiro, 292,082, Cl. D12-147.000.

Ohlsson, Dick O.: *See*—
Envall, Bjorn E. A.; and Ohlsson, Dick O., 288,303, Cl. D12-196.000.
Envall, Bjorn E. A.; and Ohlsson, Dick O., 291,191, Cl. D12-190.000.
Envall, Bjorn E. A.; and Ohlsson, Dick O., 291,192, Cl. D12-190.000.

Ohmura, Ryuichi, to Fuji Kogyo Co., Ltd. Reel seat for fishing rod. 290,154, 6-2-87, Cl. D22-142.000.

Ohmura, Ryuichi, to Fuji Kogyo Co., Ltd. Reel seat for fishing rod. 290,155, 6-2-87, Cl. D22-142.000.

Ohmura, Ryuichi, to Fuji Kogyo Co., Ltd. Reel seat for fishing rod. 290,156, 6-2-87, Cl. D22-142.000.

Ohmura, Ryuichi, to Fuji Kogyo Co., Ltd. Handle for fishing rod. 290,157, 6-2-87, Cl. D22-142.000.

Ohmura, Ryuichi, to Fuji Kogyo Co., Ltd. Reel seat for fishing rod. 290,158, 6-2-87, Cl. D22-142.000.

Ohnishi, Teruo, to Nihon Kenkozoshin Kenkyukai Co. Ltd.; and Nihon Denjihachiryoki Kenkyusho Co. Ltd. Combined magnetic heater and massager. 290,654, 6-30-87, Cl. D24-40.000.

Ohno, Kouzin, to Takara Co., Ltd. Reconfigurable toy power shovel. 288,341, 2-17-87, Cl. D21-131.000.

Ohno, Kouzin, to Takara Co., Ltd. Reconfigurable toy crane truck. 288,342, 2-17-87, Cl. D21-132.000.

Ohno, Kouzin, to Takara Co., Ltd. Reconfigurable toy cement truck. 288,577, 3-3-87, Cl. D21-138.000.

Ohno, Kouzin, to Takara Co., Ltd. Reconfigurable toy construction vehicle. 288,948, 3-24-87, Cl. D21-132.000.

Ohno, Kouzin, to Takara Co., Ltd. Reconfigurable toy dump truck. 289,069, 3-31-87, Cl. D21-132.000.

Ohno, Kouzin, to Takara Co., Ltd. Reconfigurable toy bulldozer. 289,187, 4-7-87, Cl. D21-131.000.

Ohno, Kouzin, to Takara Co., Ltd. Reconfigurable toy. 289,536, 4-28-87, Cl. D21-150.000.

Ohno, Richard J.: *See*—
Floyd, Alfred E.; and Ohno, Richard J., 288,899, Cl. D8-330.000.
Floyd, Alfred E.; and Ohno, Richard J., 290,442, Cl. D8-330.000.

Ohotani, Chogoroh, to Kabushiki Kaisha Shinwa. Carton. 292,067, 9-29-87, Cl. D9-332.000.

Ohsawa, Takao; Takayama, Hideki; Kaji, Hikaru; and Ohsugi, Hiroshi, to Hitachi, Ltd. Electric washing machine. 290,052, 5-26-87, Cl. D32-6.000.

Ohsawa, Takao: *See*—
Nagai, Gen; Ohsawa, Takao; Takayama, Hideki; and Takahashi, Masao, 292,629, Cl. D32-6.000.
Nagai, Gen; Ohsawa, Takao; Takayama, Hideki; and Hikino, Keiji, 292,630, Cl. D32-8.000.

Ohshiro, Masayuki: *See*—
Shibayama, Masato; Abe, Takeshi; Tsuji, Ko; Uchida, Akira; and Ohshiro, Masayuki, 292,000, Cl. D15-199.000.

Ohsugi, Hiroshi: *See*—
Ohsawa, Takao; Takayama, Hideki; Kaji, Hikaru; and Ohsugi, Hiroshi, 290,052, Cl. D32-6.000.

Ohsumi, Masayuki: *See*—
Mikado, Yoshio; Ito, Jun; and Ohsumi, Masayuki, 289,169, Cl. D15-4.000.
Mikado, Yoshio; Ito, Jun; and Ohsumi, Masayuki, 289,170, Cl. D15-4.000.

Ohta, Kikuo: *See*—
Hamada, Masanori; Okada, Takao; Uchida, Takako; and Ohta, Kikuo, 290,701, Cl. D14-68.000.

Ohtsu Tire & Rubber Co., Ltd., The: *See*—
Furusawa, Toshinori, 288,422, Cl. D12-136.000.
Furusawa, Toshinori; and Umemoto, Hitoo, 288,423, Cl. D12-136.000.
Mizushima, Sadao; Ichikawa, Tadao; and Okada, Kenichi, 288,546, Cl. D12-146.000.
Shinomiya, Masami; and Shintomi, Hisashi, 291,428, Cl. D12-146.000.
Shintomi, Hisashi, 287,837, Cl. D12-140.000.

Ohtsu, Yutaka, to Citizen Watch Co., Ltd. Portable television set. 288,321, 2-17-87, Cl. D14-77.000.

Ohtsu, Yutaka, to Citizen Watch Co., Ltd. Micro floppy disk drive. 290,010, 5-26-87, Cl. D14-109.000.

Ohtsuji, Tetsuo; and Kamata, Tetsuya, to Pioneer Electronic Corporation. Speaker grille. 289,282, 4-14-87, Cl. D14-39.000.

Ohtsuji, Tetsuo; and Kamata, Tetsuya, to Pioneer Electronic Corporation. Speaker grille. 289,894, 5-19-87, Cl. D14-39.000.

Ohtsuji, Tetsuo, to Pioneer Electronic Corporation. Car speaker. 291,079, 7-28-87, Cl. D14-30.000.

Ohtsuji, Tetsuo: *See*—
Nakamura, Hitoshi; and Ohtsuji, Tetsuo, 290,699, Cl. D14-34.000.

Ohya, Toshio; and Wada, Yuko, to Sony Corporation. Magnetic tape cassette or the like. 289,519, 4-28-87, Cl. D14-11.000.

Ohya, Toshio; and Wada, Yuko, to Sony Corporation. Magnetic tape cassette. 289,637, 5-5-87, Cl. D14-11.000.

Oishi, Yuichi: *See*—
Fujii, Yukihiro; Yamaoka, Junji; Konishi, Kazuhiro; Oishi, Yuichi; and Aruga, Kazuto, 289,763, Cl. D14-106.000.

Okada, Eiji; and Furuta, Motoi, to Matsushita Electric Industrial Co., Ltd. Vacuum cleaner. 289,576, 4-28-87, Cl. D32-18.000.

Okada, Kenichi: *See*—
Mizushima, Sadao; Ichikawa, Tadao; and Okada, Kenichi, 288,546, Cl. D12-146.000.

Okada, Takao: *See*—
Hamada, Masanori; Okada, Takao; Uchida, Takako; and Ohta, Kikuo, 290,701, Cl. D14-68.000.

Okami, Alvin S. One-piece dish drainer tray or similar article. 288,375, 2-17-87, Cl. D32-56.000.

Okamoto, Kenzo; Nishikawa, Hideo; Sakai, Koichi; and Kitada, Fumihiko, to Imanishi Kinzoku Kogyo Kabushiki Kaisha. Stove. 288,232, 2-10-87, Cl. D23-122.000.

Okamoto, Kenzo; Kitada, Fumihiko; and Yoshikado, Jun, to Imanishi Kinzoku Kogyo Kabushiki Kaisha. Hot plate. 289,847, 5-19-87, Cl. D7-363.000.

Okamoto, Kenzo: *See*—
Nishikawa, Hideo; Okamoto, Kenzo; and Sakai, Koichi, 288,358, Cl. D23-122.000.

Oki America, Inc.: *See*—
Watanabe, Katsuhito, 289,044, Cl. D14-64.000.
Watanabe, Katsuhito, 291,199, Cl. D14-64.000.
Watanabe, Katsuhito, 292,206, Cl. D14-53.000.

Oki Electric Industry Co., Ltd.: *See*—
Sugawara, Koki; and Seki, Sanpei, 289,293, Cl. D14-111.000.

Oki, Katsuyuki, to Toyota Jidosha Kabushiki Kaisha. Combined rear combination lamp and bezel for side marker lamp for a vehicle. 293,480, 12-29-87, Cl. D26-35.000.

Oki, Sadao, to Nissan Motor Co., Ltd. Automobile grill. 289,750, 5-12-87, Cl. D12-163.000.

Okiyama, Yoshitatsu: *See*—
Fujiyama, Yoshiyuki; Watanabe, Hideni; Kumano, Toshihiro; Terakado, Minoru; and Okiyama, Yoshitatsu, 288,093, Cl. D14-94.000.

Okuda, Mitsukazu, to Sharp Corporation. Telephone set. 291,565, 8-25-87, Cl. D14-58.000.

Okuda, Mitsukazu, to Sharp Corporation. Telephone set. 292,207, 10-6-87, Cl. D14-58.000.

Okumura, Tadao, to Toyota Jidosha Kabushiki Kaisha. Front bumper. 288,194, 2-10-87, Cl. D12-169.000.

Okumura, Tadao, to Toyoda Jidosha Kabushiki Kaisha. Radiator grille. 289,627, 5-5-87, Cl. D12-163.000.

Okuno, Tadahide: *See*—
Sano, Koichiro; Okuno, Tadahide; and Sadashima, Tsuguyoshi, 289,930, Cl. D26-49.000.
Sano, Koichiro; Okuno, Tadahide; and Usami, Satoru, 290,294, Cl. D26-63.000.
Sano, Koichiro; Usami, Satoru; and Okuno, Tadahide, 290,884, Cl. D26-65.000.

Old Bridge Playing Card Co., Inc.: *See*—
Raheb, Bill J., 291,330, Cl. D21-45.000.
Raheb, Bill J., 291,458, Cl. D21-45.000.

O'Leary, Stephen H., to Ivac Corporation. Electrical plug for IV instrument. 290,458, 6-23-87, Cl. D13-28.000.

Olin Corporation: *See*—
Angelico, Paul J.; Crumb, Richard N.; and Szeklicki, John R., 288,534, Cl. D9-418.000.
Sangster, Arlon G.; and Milford, Alan H., 288,226, Cl. D23-3.000.

Oliveira, Geraldine: *See*—
Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, 290,725, Cl. D21-166.000.
Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, 290,726, Cl. D21-166.000.

Oliver, Violet M. Bird figure. 290,483, 6-23-87, Cl. D21-160.000.

Oliver, Yacoba C.: *See*—
Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; McSweeney, Andrea; Cozad, Cheryl L.; and Oliver, Yacoba C., 290,724, Cl. D21-166.000.
Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, 290,725, Cl. D21-166.000.
Bollinger, Howard N.; Holthaus, Susan M.; Veness, Cathy L.; Abbott, Jane C.; Spindle, Michael J.; Cozad, Cheryl L.; Oliver, Yacoba C.; Oliveira, Geraldine; and Slater, Jeanne, 290,726, Cl. D21-166.000.

Olivetti Synthesis, S.p.A.: *See*—
Sottsass, Ettore; and De Lucchi, Michele, 289,470, Cl. D6-397.000.
Sottsass, Ettore; and De Lucchi, Michele, 289,471, Cl. D6-397.000.
Sottsass, Ettore; and De Lucchi, Michele, 289,472, Cl. D6-397.000.

Olla, Michael A., to Thomson Components-Mostek Corporation. Zero power random access memory package. 288,922, 3-24-87, Cl. D13-41.000.

Ollington, Robert F. Gaming table top. 291,708, 9-1-87, Cl. D21-37.000.

Olmon, Krister P. Collapsible table or similar article. 288,392, 2-24-87, Cl. D6-429.000.

Olsen, Henning, to A/S Nunc. Combined sample tube, screw cap and marking plug. 287,570, 1-6-87, Cl. D9-306.000.

Olsen, Ronald. Loudspeaker. 289,040, 3-31-87, Cl. D14-30.000.

Olson, Bradford A., to Norton Company. Kiln furniture. 288,957, 3-24-87, Cl. D23-82.000.

Olson, Jay H., to Deere & Company. Latch handle. 289,859, 5-19-87, Cl. D8-331.000.

Olson, Steven L.: *See*—
Glash, Dean M.; Kruger, Robert J.; Olson, Steven L.; and West, Richard L., 287,882, Cl. D24-61.000.
Glash, Dean M.; Kruger, Robert J.; Olson, Steven L.; and West, Richard L., 288,005, Cl. D24-61.000.

Olsson, Bo, to BL Optiska AB. Lens measuring device. 288,786, 3-17-87, Cl. D10-61.000.

Olsson, Lennart. Hobbyhorse. 290,631, 6-30-87, Cl. D21-165.000.

Olympus Optical Company, Ltd.: *See*—
Takemura, Haruhiko; Matsubayashi, Nobuhide; Yanagida, Tsuneo; and Sakamoto, Masaharu, 288,558, Cl. D14-1.000.

O'Malley, Kieran; Preisler, John; and Larkin, Bernie, to Northern Telecom Limited. Communications headset. 287,849, 1-20-87, Cl. D14-36.000.

Omino, Seiichi; and Shimoyama, Noboru, to Canon Kabushiki Kaisha. Ink ribbon cassette. 290,715, 7-7-87, Cl. D18-12.000.

Omino, Senchi; and Pazawa, Toshiaki, to Canon Kabushiki Kaisha. Electronic typewriter. 292,806, 11-17-87, Cl. D18-1.000.

Omni-Flow Associates Limited Partnership: *See*—
Kaleskas, Edward, 290,656, Cl. D24-53.000.

Onan Corporation: *See*—
Iverson, Steven J., 287,716, Cl. D13-1.000.

O'Neal, James M., to Jim O'Neal Distributing, Inc. Font of sign letters or the like. 292,417, 10-20-87, Cl. D18-30.000.

O'Neal, James M., to Jim O'Neal Distributing, Inc. Font of sign letters or the like. 292,517, 10-27-87, Cl. D18-30.000.

O'Neal, James M., to Jim O'Neal Distributing, Inc. Font of sign letters or the like. 292,518, 10-27-87, Cl. D18-30.000.

Oneida Ltd.: *See*—
Manderfield, Ellen B., 291,170, Cl. D7-143.000.
Richmond, Colin B., II, 289,846, Cl. D7-137.000.
Richmond, Colin B., II, 291,045, Cl. D7-137.000.

O'Neil, Robert A., to McDonald Products Corporation. Desk console element. 290,973, 7-21-87, Cl. D19-92.000.

O'Neil, William J., Jr., to Drackett Company, The. Air freshener dispenser. 289,919, 5-19-87, Cl. D23-150.000.

O'Neil, William J., Jr., to Drackett Company, The. Air freshener dispenser. 289,920, 5-19-87, Cl. D23-150.000.

O'Neil, William J., Jr.; Sims, Daniel J.; and Embertson, Randy, to Drackett Company, The. Aerosol can overcap. 291,782, 9-8-87, Cl. D9-448.000.

O'Neil, William J., Jr.; Jones, David A.; and Brookshire, Phillip L., to Drackett Company, The. Air freshener. 293,366, 12-22-87, Cl. D23-366.000.

Onishi, Takako: *See*—
Sutou, Masatoki; Nishiseko, Jun; Onishi, Takako; Yamagishi, Senchi; Anderson, Walter F., Jr.; and Sabo, Brian D., 290,969, Cl. D18-22.000.

Ono, Masaharu, to Sumitomo Rubber Industries, Ltd. Automobile tire. 287,840, 1-20-87, Cl. D12-147.000.

Ono, Masaharu, to Sumitomo Rubber Industries, Ltd. Automobile tire. 287,841, 1-20-87, Cl. D12-147.000.

Ono, Masaharu, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,189, 2-10-87, Cl. D12-146.000.

Ono, Masaharu, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,307, 2-17-87, Cl. D12-146.000.

Ono, Yoshio: *See*—
Nikaido, Takashi; Ono, Yoshio; and Wada, Masao, 293,300, Cl. D10-32.000.

Onsa, Kenneth S. Illuminable jewelry pin or the like. 291,543, 8-25-87, Cl. D11-75.000.

Ooba, Yasuhiro; Yamamoto, Mitsuru; and Miyamoto, Shiro, to Honda Giken Kogyo Kabushiki Kaisha. Four wheeled motorcycle. 289,986, 5-26-87, Cl. D12-107.000.

Ooie, Yoshihisa; and Sugiyama, Masakazu, to Sharp Corporation. Typewriter. 287,734, 1-13-87, Cl. D18-1.000.

Ooie, Yoshihisa, to Sharp Corporation. Facsimile machine. 290,959, 7-21-87, Cl. D14-94.000.

Oord, Klaas T.; and Sterk, Olivier, to U.S. Philips Corporation. Charging stand for an electric dry shaver or the like. 289,996, 5-26-87, Cl. D13-6.000.

Oord, Klaas T.; and Sterk, Olivier, to U.S. Philips Corporation. Dry shaver. 291,372, 8-11-87, Cl. D28-50.000.

Oord, Klaas T., to U.S. Philips Corporation. Dry shaver. 291,496, 8-18-87, Cl. D28-50.000.

Oord, Klaas T., to U.S. Philips Corporation. Dry shaver. 291,497, 8-18-87, Cl. D28-50.000.

Oord, Klaas T., to U.S. Philips Corporation. Dry shaver. 291,498, 8-18-87, Cl. D28-50.000.

Oord, Klaas T., to U.S. Philips Corporation. Dry shaver. 291,499, 8-18-87, Cl. D28-50.000.

Oord, Klaas T., to U.S. Philips Corporation. Dry shaver. 293,138, 12-8-87, Cl. D28-50.000.

Opitz, Douglas G., to Harley-Davidson, Inc. Motorcycle ignition switch cover. 290,245, 6-9-87, Cl. D12-126.000.

Opsvik, Peter. Chair. 287,669, 1-13-87, Cl. D6-330.000.

Opsvik, Peter. Combined seat and knee rest support arm for a chair. 289,118, 4-7-87, Cl. D6-491.000.

Opsvik, Peter. Combined seat and knee rest support arm for a chair. 289,119, 4-7-87, Cl. D6-500.000.

Opsvik, Peter. Chair. 292,453, 10-27-87, Cl. D6-335.000.

Opsvik, Peter. Chair. 292,756, 11-17-87, Cl. D6-335.000.

Opsvik, Peter. Chair. 292,853, 11-24-87, Cl. D6-335.000.

Opsvik, Peter. Chair. 293,049, 12-8-87, Cl. D6-366.000.

Opsvik, Peter: *See*—
Mengshoel, Hans C.; and Opsvik, Peter, 291,264, Cl. D6-335.000.

Optyl Eyewear Fashion International Corp.: *See*—
Haas, Ulrich J., 290,847, Cl. D16-119.000.
Haas, Ulrich J., 290,848, Cl. D16-119.000.
Meyerspeer, Bernhard, 291,808, Cl. D16-102.000.

Ord, Graeme J.; and Lockhart, Robert N., to Kent Heating Limited. Heating stove. 290,743, 7-7-87, Cl. D23-97.000.

Ordal, Douglas C.: *See*—
Krotzer, Robert D.; Eckert, Ross J.; Commisso, Domenico; Ordal, Douglas C.; and Pawlik, Peter S., 291,599, Cl. D25-2.000.

O'Reilly, Paul, to Cook on Gas Products Pty. Limited. Heating stove. 291,349, 8-11-87, Cl. D23-97.000.

Orenstein, Henry. Toy tree house. 287,740, 1-13-87, Cl. D21-115.000.

Orenstein, Henry. Chair for use by a beautician. 288,037, 2-3-87, Cl. D6-335.000.

Orenstein, Jeffrey. Folding umbrella. 289,945, 5-26-87, Cl. D3-5.000.

Orgenics, Ltd.: *See*—
Herzberg, Max; and Fish, Falk, 293,374, Cl. D24-17.000.

Oriental Housewares (H.K.) Ltd.: *See*—
Tong, Samuel, 288,514, Cl. D7-47.000.

Original Vogelbauer Corp., The: *See*—
Braeuner, Horst, 287,650, Cl. D30-4.000.

Orlowski, Witold, to Perstorp AB. Waste container. 291,738, 9-1-87, Cl. D34-5.000.

Orlowski, Witold, to Perstorp AB. Waste container. 291,739, 9-1-87, Cl. D34-5.000.

O'Rourke, John J., to Converse Inc. High-top athletic shoe. 290,541, 6-30-87, Cl. D2-310.000.

O'Rourke, John J., to Converse Inc. Athletic shoe. 290,542, 6-30-87, Cl. D2-310.000.

O'Rourke, Ryan W. Gun ball dispensing telephone. 290,005, 5-26-87, Cl. D14-53.000.

Orr, Larry W.: *See*—
Simons, Wayne K.; Meryman, Roy L.; Orr, Larry W.; and Richardson, Donald A., 291,872, Cl. D12-96.000.
Simons, Wayne K.; Meryman, Roy L.; and Orr, Larry W., 291,982, Cl. D12-96.000.

Orrville Products, Inc.: *See*—
Craver, Richard D., 288,595, Cl. D23-94.000.

Ortega, Charles J., to Xantech Corporation. Interior panel lighting fixture for vehicle or the like. 291,253, 8-4-87, Cl. D26-29.000.

Osaka, Kazumi, to Sharp Corporation. Combined electronic thermometer and cover therefor. 287,829, 1-20-87, Cl. D10-57.000.

Osawa, Mitsuyoshi, to Ichikawa Press Industry Co., Ltd. Combined electric kneader and vibratory massager. 290,402, 6-16-87, Cl. D24-40.000.

Osawa, Toru; and Nishio, Hideaki, to Bridgestone Corporation. Motorcycle tire. 288,077, 2-3-87, Cl. D12-142.000.

Osawa, Toru: *See*—
Hayakawa, Toshio; and Osawa, Toru, 291,875, Cl. D12-147.000.
Hayakawa, Toshio; Himuro, Yasuo; and Osawa, Toru, 291,876, Cl. D12-149.000.

Osborn, Gary A. Bread box. 291,644, 9-1-87, Cl. D7-82.000.

Osborne, Edward L., to Westvaco Corporation. Packaging container. 290,343, 6-16-87, Cl. D9-418.000.

Osborne, Edward L., to Westvaco Corporation. Packaging container. 290,444, 6-23-87, Cl. D9-418.000.

Osborne, George D. Combined meat smoker, moisturizer and holder for wood chips. 289,964, 5-26-87, Cl. D7-337.000.

Osborne, Jennifer J. Combined multiple mascara dispenser and applicator. 293,035, 12-1-87, Cl. D28-7.000.

Osborne, Thomas P.: *See*—
Bedell, Rickie T.; Katauskas, Michael A.; and Osborne, Thomas P., 288,702, Cl. D21-122.000.

Oscar, Henry F., to Oscarvision Systems, Inc. Combined television receiver and video tape recorder. 291,887, 9-15-87, Cl. D14-79.000.

Oscarvision Systems, Inc.: *See*—
Oscar, Henry F., 291,887, Cl. D14-79.000.
Oshima, Takashi, Yamaguchi, Ryoji, and Hizume, Kiyoshi, to Iwatsu Electric Co., Ltd. Facsimile transceiver. 289,165, 4-7-87, Cl. D14-94.000.
Osit, Robert, to Black & Decker Inc. Base for kitchen appliance. 287,810, 1-20-87, Cl. D7-412.000.
Osit, Robert, to Black & Decker Inc. Kitchen appliance. 288,892, 3-24-87, Cl. D7-412.000.
Osit, Robert, to Black & Decker, Inc. Combined charger and storage base for a hand-held vacuum cleaner. 289,631, 5-5-87, Cl. D13-5.000.
Osit, Robert, to Black & Decker, Inc. Combined kitchen appliance and base assembly. 291,767, 9-8-87, Cl. D7-379.000.
OSRAM GmbH: *See*—
Darnhofer, Gunter, 289,334, Cl. D26-37.000.
Geissler, Udo M., 289,693, Cl. D16-14.000.
Geissler, Udo M., 289,769, Cl. D16-14.000.
Geissler, Udo M., 293,482, Cl. D26-49.000.
Witte, Dieter, 291,358, Cl. D26-3.000.
Osvik, Claes, Advertising sign for motor cars. 290,621, 6-30-87, Cl. D20-10.000.
Osterhout, Ralph F., to TEKNA. Retractable knife. 288,898, 3-24-87, Cl. D8-99.000.
Osterman, Lewis D. Horse-shaped swing. 292,016, 9-22-87, Cl. D21-246.000.
Ostrom, Sven, to Monark AB. Bicycle ergometer frame. 292,304, 10-13-87, Cl. D21-194.000.
Ostrowsky, Efrem M., to Pittway Corporation. Dispensing closure cap. 292,889, 11-24-87, Cl. D9-449.000.
Otake, Masaaki, to Ito Company, Ltd. Nail clip. 292,624, 11-3-87, Cl. D28-56.000.
Otaki, Osamu: *See*—
Ueno, Koichi; Umehara, Nobuhiro; and Otaki, Osamu. 290,890, Cl. D32-70.000.
Otsuka, Hiroshi, to Seiko Epson Kabushiki Kaisha. Plotter. 288,447, 2-24-87, Cl. D14-107.000.
Otsuka, Hiroshi, to Seiko Epson Kabushiki Kaisha. Electronic printer. 289,167, 4-7-87, Cl. D14-111.000.
Otsuki, Tadao, to Toyota Jidosha Kabushiki Kaisha. Front fender for an automobile. 292,903, 11-24-87, Cl. D12-154.000.
Outboard Marine Corporation. *See*—
Prince, Anthony P.; Kolb, Richard P.; and Stevens, Myron T., 288,532, Cl. D9-401.000.
Prince, Anthony P.; Kolb, Richard P.; and Stevens, Myron T., 291,063, Cl. D9-401.000.
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Overman, John W., and Wells, Thomas R., to Bell & Howell Company. Microfilm reader. 290,264, 6-9-87, Cl. D16-11.000.
Owen, Geoffrey C., and Heath, David, to Standex International Ltd. Candlelamp. 288,856, 3-17-87, Cl. D26-11.000.
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Owens, Betty J. Combined doll and back pack. 289,427, 4-21-87, Cl. D21-167.000.
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Strand, Gordon A., 288,906, Cl. D9-390.000.
Strand, Gordon A., 289,012, Cl. D9-349.000.
Strand, Gordon A., 289,259, Cl. D9-349.000.
Weckman, Richard L., 288,904, Cl. D9-349.000.
Weckman, Richard L., 289,260, Cl. D9-349.000.
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Owens, Neil D. Auxiliary bicycle handlebar attachment. 289,630, 5-5-87, Cl. D12-178.000.
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Kaeser, Charles, 288,848, Cl. D24-36.000.
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Pace Incorporated: *See*—
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Wallgren, Linus E., 288,556, Cl. D13-99.000.
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Pace Industries, Inc.: *See*—
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Linn, Richard A., 291,111, Cl. D23-2.000.
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Padilla, James M., to Cuno Incorporated. Water purifier or similar article. 290,386, 6-16-87, Cl. D23-3.000.
Padilla, James M.; and Tomschak, Sigfrid A., to Cuno Incorporated. Quick-disconnect fitting or similar article. 291,479, 8-18-87, Cl. D24-43.000.
Pagac, William T.: *See*—
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Pagani, David A., to Eldon Industries, Inc. Soldering station. 290,927, 7-21-87, Cl. D8-30.000.
Pagano, Guy S. Combined billfold, card case and memo pad holder. 288,263, 2-17-87, Cl. D3-56.000.
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Palacio, Jorge E. M., to Calzado Puma, S.A. de C.V. Shoe. 287,783, 1-20-87, Cl. D2-309.000.
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Palmer, Ronald J. Bicycle light assembly. 288,969, 3-24-87, Cl. D21-35.000.
Palmer, T. Eric, to Glasdon Limited. Bin. 288,494, 3-24-87, Cl. D34-5.000.
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George, Peter; and Paloian, Michael. 293,110, Cl. D14-100.000.
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Pandolfi, Alberto, to Bravetti Gaggia S.p.A. Ice cream maker. 292,091, 9-29-87, Cl. D15-92.000.
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Thomson, Harry S.; Raffo, David M.; and Pape, John A., 289,189, Cl. D21-109.000.
Thomson, Harry S.; Raffo, David M.; and Pape, John A., 290,655, Cl. D24-45.000.
Thomson, Harry S.; Raffo, David M.; and Pape, John A., 292,011, Cl. D21-148.000.
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Parke, Helmut H.; Arndt, Siegfried E.; Arndt, Dieter W.; and Krueger, Claus D. Paint container and cover therefor. 293,144, 12-8-87, Cl. D32-53.100.

Pappas, Phillip M. Compact portable kitchen. 291,047, 7-28-87, Cl. D7-334.000.

Pappinen, Pantti K. Physical exerciser. 289,783, 5-12-87, Cl. D21-195.000.

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Paraf, Boris. Dispensing container. 288,528, 3-3-87, Cl. D9-373.000.

Paraf, Boris. Dispensing container. 288,529, 3-3-87, Cl. D9-373.000.

Paraf, Boris. Double lid for a container. 293,299, 12-22-87, Cl. D9-446.000.

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Aldrich, Thomas B.; and Pardo, John, 289,287, Cl. D14-60.000.
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Ross, Samuel; and Pardo, John, 292,492, Cl. D9-453.000.

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Parnham, Leon. Back support pillow. 293,186, 12-15-87, Cl. D6-601.000.

Parno, Leroy O. Pair of automotive step plates. 291,077, 7-28-87, Cl. D12-203.000.

Part, Alan; and Graves, Lee K.; to Wickes Manufacturing Company. Spoiler vane for small vans. 291,978, 9-22-87, Cl. D12-181.000.

Part, Robert G. Neckwrap. 288,029, 2-3-87, Cl. D2-607.000.

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Paul, Stanley M., to Paul Associates, Inc. Lavatory faucet. 290,160, 6-2-87, Cl. D23-25.000.

Paul, Stanley M., to Paul Associates, Inc. Lavatory faucet set. 290,161, 6-2-87, Cl. D23-25.000.

Paul, Stanley M., to Paul Associates, Inc. Lavatory faucet. 290,162, 6-2-87, Cl. D23-25.000.

Paul, Stanley M., to Paul Associates, Inc. Door handle. 290,336, 6-16-87, Cl. D8-308.000.

Paul, Stanley M., to Paul Associates Inc. Tub spout. 290,643, 6-30-87, Cl. D23-32.000.

Paul, Stanley M., to Paul Associates Inc. Tub spout. 290,644, 6-30-87, Cl. D23-32.000.

Paul, Stanley M., to Paul Associates, Inc. Tub spout. 290,645, 6-30-87, Cl. D23-32.000.

Paul, Stanley M., to Paul Associates, Inc. Lavatory set. 290,869, 7-14-87, Cl. D23-25.000.

Paul, Stanley M., to Paul Associates, Inc. Lavatory set. 290,870, 7-14-87, Cl. D23-25.000.

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Pecoff, Ronald, 289,864, Cl. D11-164.000.
Pecoff, Ronald, to Pecoff Bros. Nursery & Seed, Inc. Combined support and plant pot holders or the like. 289,863, 5-19-87, Cl. D11-155.000.
Pecoff, Ronald, to Pecoff Bros. Nursery & Seed, Inc. Support for plant pot holders or the like. 289,864, 5-19-87, Cl. D11-164.000.
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terson, Nils A. I., to Brio Toy AB. Rail element for a toy railway. 287,609, 1-6-87, Cl. D21-143.000.

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Pierce, Ray H., to Tromar Corporation Ltd. Trophy ornament. 293,220, 12-15-87, Cl. D11-161.000.

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Reid, Donald J., to Kelsey-Hayes Company. Vehicle wheel center. 292,570, 11-3-87, Cl. D12-211.000.
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nninger, Hans J., to Hans Rmninger u. Sohn GmbH u.Co. Cobblestone. 288,370, 2-17-87, Cl. D25-80.000.
ordan, Michael E., and Jones, Daniel A. Game layout sheet. 291,457, 8-18-87, Cl. D21-37.000.
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sman, Joost R. Dish. 289,245, 4-14-87, Cl. D7-1.000.
sman, Joost R. Plate. 289,246, 4-14-87, Cl. D7-1.000.
sman, Joost R. Plate. 289,594, 5-5-87, Cl. D7-1.000.
sman, Joost R. Dish. 289,717, 5-12-87, Cl. D7-1.000.
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sman, Joost R. Cup. 290,325, 6-16-87, Cl. D7-9.000.
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ttenhouse, James M.; Haber, Barry M.; and Wong, Ting W., to Conair Corporation. Telephone base. 292,092, 9-29-87, Cl. D14-62.000.
ttenhouse, James M.; Haber, Barry M.; and Wong, Ting W., to Conair Corporation. Telephone base. 292,093, 9-29-87, Cl. D14-62.000.
ttenhouse, James M.; Haber, Barry M.; and Wong, Ting W., to Conair Corporation. Telephone base. 292,284, 10-13-87, Cl. D14-62.000.
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zzo, Marco. Knee platform crutch. 291,148, 8-4-87, Cl. D3-7.000.
-Search, Inc.: *See—*
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bbins, Richard J.; and Stiner, Roy, to Brunswick Corporation. Spin cast fishing reel. 290,987, 7-21-87, Cl. D22-141.000.
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Maass, Rudolf, 292,326, Cl. D28-12.000.
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Robinson, Ural M., to Heldor Industries, Inc. Chemical feeder for swimming pools. 288,227, 2-10-87, Cl. D23-3.000.
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Rodis-Jamero, Nilo. Toy spaceship. 288,946, 3-24-87, Cl. D21-87.000.
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Ronn, Benjamin T.; Avery, Ronald G.; and O'Grady, Richard M., to Cerberus AG. Intrusion detector. 292,892, 11-24-87, Cl. D10-106.000.
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Cerola, Joseph J., 293,069, Cl. D7-346.000.
Cerola, Joseph J., 293,070, Cl. D7-346.000.
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Rosario, Robert R.; and Bruno, Luis G. C., to Rosario, Robert Rosario; Bruno, Luis German Cacho; and Interspace Industries Corp. Cabinet panel. 288,644, 3-10-87, Cl. D6-492.000.

Rosario, Robert R.; and Bruno, Luis G. C., to Rosario, Robert Rosario; Bruno, Luis German Cacho; and Interspace Industries Corp. Cabinet panel. 288,758, 3-17-87, Cl. D6-492.000.

Rosario, Robert R.; and Bruno, Luis G. C., to Rosario, Robert Rosario; Bruno, Luis German Cacho; and Interspace Industries Corp. Cabinet panel. 288,759, 3-17-87, Cl. D6-492.000.

Rosario, Robert R.; and Bruno, Luis G. C., to Rosario, Robert Rosario; Bruno, Luis German Cacho; and Interspace Industries Corp. Cabinet panel. 288,760, 3-17-87, Cl. D6-492.000.

Rosario, Robert Rosario: *See—*
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Rosario, Robert R.; and Bruno, Luis G. C., 288,759, Cl. D6-492.000.
Rosario, Robert R.; and Bruno, Luis G. C., 288,760, Cl. D6-492.000.

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Rosenthal, Gordon, to Fairchild Industries, Inc. Aircraft. 291,431, 8-18-87, Cl. D12-333.000.

Rosenthal, Gordon, to Fairchild Industries, Inc. Two-stage spacecraft with collapsible wings. 291,555, 8-25-87, Cl. D12-334.000.

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Rosenthal, Maurice I. Microphone support. 292,796, 11-17-87, Cl. D14-13.000.

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Rosenwinkel, Karen A., to W. Braun Company. Bottle, or similar article. 287,823, 1-20-87, Cl. D9-413.000.

Rosenwinkel, Karen A., to W. Braun Company. Bottle, or similar article. 291,778, 9-8-87, Cl. D9-413.000.

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Ross, Samuel; and Pardo, John, to Procter & Gamble Company, The. Pouring attachment for bottles. 292,491, 10-27-87, Cl. D9-447.000.

Ross, Samuel; and Pardo, John, to Procter & Gamble Company, The. Combined closure and measuring cup. 292,492, 10-27-87, Cl. D9-453.000.

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Rossio, Bruno; Bossi, Giuseppe; and Roggero, Francesco, to Rancilio Roberto S.p.A. Espresso coffee machine. 288,398, 2-24-87, Cl. D7-309.000.

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Hansen, Erik L., 293,408, Cl. D7-104.000.

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Roth, Charles S. Car tray. 293,163, 12-15-87, Cl. D3-40.000.

Roth, Donna J.; and Roth, Henry M. Combined radio and lunchbox. 288,320, 2-17-87, Cl. D14-72.000.

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Rottenberg, Mordechai, to Amcor Ltd. Insect electrocution lamp. 291,345, 8-11-87, Cl. D22-123.000.

Rottenberg, Mordechai, to Amcor, Ltd. Insect electrocution lamp. 292,306, 10-13-87, Cl. D22-123.000.

Rousseau, Barry, to Almico Ltd. Bath tub. 289,079, 3-31-87, Cl. D23-55.000.

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Stutzer, Franz A.; and Knochner, Michael, 288,164, Cl. D7-309.000.
Stutzer, Franz A., 289,449, Cl. D27-36.000.
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Stutzer, Franz A.; and Knochner, Michael, 290,677, Cl. D7-384.000.
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Stutzer, Franz A.; and Knochner, Michael, 290,891, Cl. D32-70.000.
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Rowland, Frieda H. Unitard for exercising purposes. 288,860, 3-24-87, Cl. D2-29.000.

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RTC Industries, Inc.: *See—*
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Nathan, Walter; and Zucker, Armand S., 290,670, Cl. D6-511.000.
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Rudelick, John, to Universal-Rundle Corporation. Sink sprayer. 292,227, 10-6-87, Cl. D23-226.000.

Rudelick, John, to Universal-Rundle Corporation. Combined sink sprayer and support sleeve. 293,018, 12-1-87, Cl. D23-226.000.

Rudell, Elliot A.; Cernansky, Joseph S.; and Kamrath, Richard P. Four-wheeled child's cycle. 290,450, 6-23-87, Cl. D12-108.000.

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Ruel, Denis: *See—*
Weeden, Christopher; and Ruel, Denis, 289,201, Cl. D25-59.000.

Ruffin, Phillip G. Combined platform truck and hand truck dolly. 289,578, 4-28-87, Cl. D34-17.000.

Ruger, William B.; and Larson, Lawrence L., to Sturm, Ruger & Company, Inc. Pistol. 292,112, 9-29-87, Cl. D22-104.000.

Ruger, William B.; and Larson, Lawrence L., to Sturm, Ruger & Company, Inc. Set of grip panels for a handgun. 293,357, 12-22-87, Cl. D22-108.000.

Ruggles, Billy D., to Du-Call Miller Plastics Inc. Rotatable toy kite. 291,459, 8-18-87, Cl. D21-88.000.

Rumbaugh, James T., to Berkley and Company Inc. Combined fisherman's scale and tape measure. 288,789, 3-17-87, Cl. D10-89.000.

Rumbaugh, James T., to Berkley, Inc. Hand-held battery operated tool for stripping fishing line from a reel and for sharpening fish hooks. 290,868, 7-14-87, Cl. D22-149.000.

Rumens, Kurt W. F.; and Holley, Robert E. Stove door. 292,021, 9-22-87, Cl. D23-128.000.

Rummel, Edward W. Microprocessor controller for automated document retrieval systems. 289,760, 5-12-87, Cl. D14-100.000.

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McLennan, William R.; and Rung, Robert, 288,116, Cl. D23-180.

Runion, William J. Combined animal bed and housing unit. 289,072, 3-24-87, Cl. D30-1.000.

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nyon, Richard C., to Arrowhead Puritas Waters, Inc.: Bottled water dispenser. 292,466, 10-27-87, Cl. D7-306.000.
nyon, Richard C., to Arrowhead Puritas Waters, Inc. Bottled water dispenser. 292,467, 10-27-87, Cl. D7-306.000.
snock, Kevin R.; and Hamilton, C. Richard, to Adolph Coors Company. Carrier for cans or the like. 289,011, 3-31-87, Cl. D9-346.000.
snock, Kevin R.; and Hamilton, C. Richard, to Adolph Coors Company. Carrier blank for cans or the like. 289,263, 4-14-87, Cl. D9-433.000.
snock, Kevin R.; and Hamilton, C. Richard, to Adolph Coors Company. Web of carton blanks. 290,583, 6-30-87, Cl. D9-433.000.
well, Dean. Seeder box hinge. 287,696, 1-13-87, Cl. D8-329.000.
well, J. C. Adjustable height pet feeder. 289,807, 5-12-87, Cl. D30-13.000.
sso, Ralph M. Tool caddy. 291,640, 9-1-87, Cl. D6-563.000.
stad, Jan H., to Trygve Liljedahl Skistavfabrikk A/S. Element for ski pole handle or similar article. 290,488, 6-23-87, Cl. D21-230.000.
stad, Jan H., to Trygve Liljedahl Skistavfabrikk A/S. Element for ski pole handle or similar article. 290,489, 6-23-87, Cl. D21-230.000.
stad, Jan H., to Trygve Liljedahl Skistavfabrikk A/S. Ski pole handle. 290,865, 7-14-87, Cl. D21-230.000.
tan, Elbert L. Airplane. 292,393, 10-20-87, Cl. D12-332.000.
therford, David G.; Helling, Bernd; Shearn, David M.; and Shaler, David, to Associated Press, The. Facsimile receiver. 292,584, 11-3-87, Cl. D14-94.000.
tkowski, Richard G.; Dwyer, John J.; Weisz, Sandor, F., and Doherl, Terrence M., to Dictaphone Corporation. Record/playback device. 290,252, 6-9-87, Cl. D14-6.000.
tkowski, Richard G.; and Hoover, John W., to Dictaphone Corporation. Cassette. 293,100, 12-8-87, Cl. D14-11.000.
tkowski, Richard G.: *See*—
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tter, Sheldon M., to FL Industries, Inc. Illuminated house number display or similar article. 288,940, 3-24-87, Cl. D20-17.000.
tter, Sheldon M., to American Electric Div. of FL Industries, Inc. Illuminated house number display or similar article. 289,063, 3-31-87, Cl. D20-17.000.
tter, Sheldon M., to Gould Inc. Video terminal. 289,168, 4-7-87, Cl. D14-113.000.
tter, Sheldon M., to FL Industries, Inc. Illuminated house number display or similar article. 289,184, 4-7-87, Cl. D20-17.000.
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ttinger, Armin. Combined holder for keys and protective spray. 288,468, 2 24-87, Cl. D22-117.000.
zzin, Richard F., to General Motors Corporation. Wheel cover. 292,390, 10-20-87, Cl. D12-211.000.
ya, Jan; and Andersen, Edel S., to Interlego A.G. Toy building element. 290,476, 6-23-87, Cl. D21-108.000.
ya, Jan; and Poulsen, Ole V., to Interlego A.G. Toy construction piece. 290,477, 6-23-87, Cl. D21-108.000.
ya, Jan; and Poulsen, Ole V., to Interlego A.G. Movable toy figure. 290,482, 6-23-87, Cl. D21-150.000.
ya, Jan; and Poulsen, Ole V., to Interlego A.G. Toy construction piece. 290,721, 7-7-87, Cl. D21-108.000.
ya, Jan; and Poulsen, Ole V., to Interlego A.G. Toy seat or similar article. 291,219, 8-4-87, Cl. D21-123.000.
ya, Jan; and Andersen, Edel S., to Interlego A.G. Toy propeller. 293,341, 12-22-87, Cl. D21-108.000.
an, Delvin R., Jr., to Salton, Inc. Coffee maker. 292,468, 10-27-87, Cl. D7-309.000.
an, Desmond J.; Bumgardner, Donald L.; and Juziuk, Jurgen A., to Northern Telecom Limited. Display terminal. 288,323, 2-17-87, Cl. D14-106.000.
an, Desmond J., to Northern Telecom Limited. Telephone set add-on accessory module. 290,354, 6-16-87, Cl. D14-60.000.
an, John W., to Agrowparts Pty Limited. Blade for a digging point. 290,613, 6-30-87, Cl. D15-11.000.
an, Thomas J., to Masco Building Products Corp. Handle for a faucet. 290,495, 6-23-87, Cl. D23-28.000.
an, Thomas J., to Masco Building Products Corp. Faucet handle. 290,496, 6-23-87, Cl. D23-29.000.
an, Thomas J., to Masco Building Products Corp. Faucet spout. 291,117, 7-28-87, Cl. D23-32.000.
der, Francis E., to Ryder International Corporation. Pump housing for the delivery of dental treatment solutions. 292,734, 11-10-87, Cl. D24-10.000.
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kken, Oddvin. Adjustable chair. 289,708, 5-12-87, Cl. D6-367.000.
kken, Oddvin. Chair. 292,452, 10-27-87, Cl. D6-335.000.
kken, Oddvin. Chair. 292,454, 10-27-87, Cl. D6-335.000.
kken, Oddvin. Chair. 292,455, 10-27-87, Cl. D6-335.000.
kken, Oddvin. Chair. 292,852, 11-24-87, Cl. D6-335.000.
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Envall, Bjorn E. A.; and Giugiaro, Giorgetto, 288,428, Cl. D12-169.000.
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Saito, Etsuro; Nemoto, Tsuneo; and Takahashi, Shinichiro, to Sony Corporation. Magnetic disc or the like. 292,291, 10-13-87, Cl. D14-114.000.
Saito, Etsuro; and Nemoto, Tsuneo, to Sony Corporation. Magnetic disc. 292,292, 10-13-87, Cl. D14-114.000.
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Sakai, Koichi, to Imanishi Kinzoku Kogyo Kasbushiki Kaisha. Kerosene stove. 292,122, 9-29-87, Cl. D23-121.000.
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Schalle, Werner E., to Aquarius Rubber Pty. Ltd. Pipe flashing. 292,234, 10-6-87, Cl. D25-70.000.
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Schmidt, Peter, to Eau de Cologne- & Parfuemerie-Fabrik. Bottle. 292,271, 10-13-87, Cl. D9-377.000.

Schmidt, Peter, to Eau de Cologne- & Parfuemerie-Fabrik. Bottle. 292,272, 10-13-87, Cl. D9-384.000.

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Schoepfer, Eddy, to Fabrique Ebel, Societe Anonyme. Wrist watch 292,890, 11-24-87, Cl. D10-39.000.

Schoepfer, Eddy, to Fabrique Ebel, Societe Anonyme. Wrist watch band. 293,302, 12-22-87, Cl. D11-3.000.

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Schroeder, Roger H.; and Hodlewsky, Wasyly G., to Rexnord Inc. Conveyor chain link. 289,607, 5-5-87, Cl. D8-499.000.
Schroeder, Roger H.; and Hodlewsky, Wasyly G., to Rexnord Inc. Conveyor chain link. 289,608, 5-5-87, Cl. D8-499.000.
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Scofield, William C.; and Scofield, Barbara A., 289,335, Cl. D28-23.000.
Scofield, William C.; and Scofield, Barbara A. Encased hair pick with handle. 289,335, 4-14-87, Cl. D28-23.000.
Scoggins, Julius E. Square for wood and metal construction work. 289,741, 5-12-87, Cl. D10-62.000.
Scott, Donald J. Intravenous tube holder. 290,041, 5-26-87, Cl. D24-52.000.
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Krapowicz, Jacob, 290,126, Cl. D15-7.000.
Lackner, John R.; and Bartasevich, William E., Jr., 291,129, Cl. D32-31.000.
Scott, Gary M., to Wallace Mfg. Corp. Garden trowel. 292,865, 11-24-87, Cl. D8-10.000.
Scott, John H. Animal feeder. 287,651, 1-6-87, Cl. D30-13.000.
Scott, Michael J., to Allflex International Limited. Ear tag. 290,775, 7-7-87, Cl. D30-43.000.
Scott Paper Company: *See*—
Goetz, Elmer; and Urion, Kenard E., 289,262, Cl. D9-420.000.
Scott, Richard E.: *See*—
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Scott, S. Glenn, to Professional Specialties Co. Winged pad for knee crutch. 288,143, 2-10-87, Cl. D3-8.000.
Scott, S. Glenn, to Professional Specialties Co. Winged heel cushion. 288,862, 3-24-87, Cl. D2-317.000.
Scott, Samuel C. Surround concrete panel mold. 288,328, 2-17-87, Cl. D15-136.000.
Scott-Smith, Joan K. Auto knapsack. 292,347, 10-20-87, Cl. D3-40.000.
Scoville, John R., Jr.; and LePage, Danny J., to Castle Company. Surgical light handle. 289,206, 4-7-87, Cl. D26-140.000.
Screen, Stafford T., to Colson Castors (Europe) Limited. Castor. 288,286, 2-17-87, Cl. D8-375.000.
Screen, Stafford T., to Colson Castors (Europe) Limited. Castor. 288,287, 2-17-87, Cl. D8-375.000.
Scurto, Russell S. Can piercer. 292,770, 11-17-87, Cl. D8-18.000.
Seabury, Thomas W.: *See*—
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Sealright Co., Inc.: *See*—
Smith, Ernest L., 291,971, Cl. D9-447.000.
Smith, Ernest L., 292,380, Cl. D9-435.000.
Searle, Robert. Stackable leader spool container. 291,843, 9-15-87, Cl. D3-35.000.
Sears, Roebuck and Co.: *See*—
Perkins, Nancy J., 288,014, Cl. D32-18.000.
Perkins, Nancy J., 289,213, Cl. D32-24.000.
Seasholtz, Craig A.: *See*—
Berfield, Robert C.; Seasholtz, Craig A.; and Fegan, Richard M., 289,933, Cl. D32-20.000.
Seay, Edward E.: *See*—
Ritchie, David E.; and Seay, Edward E., 287,871, Cl. D23-19.000.
Sebring, Linda B. Jewelry finding. 291,977, 9-22-87, Cl. D11-54.000.
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Brown, Kenneth A., 290,406, Cl. D26-38.000.
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Sedivy, Anthony J.: *See*—
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Sedziol, Roland S.: *See*—
Stackhouse, Theodore H.; Bailey, Edward J.; Sedziol, Roland S.; Berry, William E.; Schubeler, Kenneth E.; and Braun, Michael D., 293,116, Cl. D15-199.000.
Seegmiller, Ben L. Connector for a single strut mine roof truss. 292,670, 11-10-87, Cl. D8-382.000.
Seehase, Jack C. Belt buckle. 290,448, 6-23-87, Cl. D11-232.000.
Seelig, Barry G., to Colgate-Palmolive Company. Bottle. 289,611, 5-5-87, Cl. D9-376.000.
Seguin, Pierre, to Fedor-Expositions Inc. Portable case for modular exhibit panels or the like. 291,388, 8-18-87, Cl. D3-77.000.
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Seiffert, Florian; and Abe, Nchoru, to Matsushita Electric Works, Ltd. Electric shaver. 290,531, 6-23-87, Cl. D28-49.000.
Seiffert, Florian; and Yonezawa, Kazuyoshi, to Matsushita Electric Works, Ltd. Electric shaver. 290,887, 7-14-87, Cl. D28-49.000.
Seike, Seishin; and Bellini, Mario, to Zojurushi Vacuum Bottle Co., Ltd. Electric insulated beverage dispenser or the like. 293,409, 12-29-87, Cl. D7-313.000.
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Kojima, Nobuyuki; Sekigawa, Youichi; and Kobiyama, Makoto, 291,726, Cl. D23-127.000.
Selbiger, Lawrence, to PENSA, Inc. Shoe sole. 290,660, 7-7-87, Cl. D2-320.000.
Selbiger, Lawrence; and MacGregor, Bruce, to PENSA, Inc. Shoe upper. 290,783, 7-14-87, Cl. D2-314.000.
Selbiger, Lawrence; and Kelley, Brenda, to Pensa, Inc. Shoe upper. 291,143, 8-4-87, Cl. D2-314.000.
Selbiger, Lawrence, to Pensa, Inc. Shoe sole. 291,146, 8-4-87, Cl. D2-320.000.
Selbiger, Lawrence; and Curley, Jack, to AVIA Group International, Inc. Shoe upper. 292,241, 10-13-87, Cl. D2-314.000.
Selbiger, Lawrence; and Ludeman, John, to AVIA Group International, Inc. Shoe upper. 292,942, 12-1-87, Cl. D2-314.000.
Selbiger, Lawrence; and Ludeman, John, to AVIA Group International, Inc. Shoe upper. 292,945, 12-1-87, Cl. D2-314.000.
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Chap, John P., 291,518, Cl. D6-523.000.
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Chap, John P., 291,638, Cl. D6-540.000.
Chap, John P., 291,639, Cl. D6-549.000.
Chap, John P., 291,755, Cl. D6-566.000.
Chap, John P., 291,756, Cl. D6-566.000.
Chap, John P., 292,256, Cl. D6-525.000.
Chap, John P., 293,184, Cl. D6-546.000.
Selig, Julie A., to 'totes', incorporated. Umbrella handle. 290,905, 7-21-87, Cl. D3-16.000.
Selig, Julie A., to 'totes', incorporated. Umbrella handle. 291,385, 8-18-87, Cl. D3-12.000.
Selig, Julie A., to 'totes' incorporated. Umbrella handle. 292,042, 9-29-87, Cl. D3-10.000.
Selig, Julie A., to 'totes', incorporated. Umbrella cap. 292,143, 10-6-87, Cl. D3-17.000.
Selig, Julie A., to 'totes', incorporated. Umbrella handle. 292,642, 11-10-87, Cl. D3-12.000.
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Seltzer, Samuel M.; and Dennison, Saul, to Allison Corporation. Combined fuse holder and extractor. 292,168, 10-6-87, Cl. D8-14.000.
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Seraile, David A. Necklace or the like. 292,180, 10-6-87, Cl. D11-11.000.
Serbinski, Andrew T.: *See—*
Carr, Donald W.; and Serbinski, Andrew T., 291,892, Cl. D16-30.000.
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Belaiche, Serge; and Ebbo, Daniel, 290,577, Cl. D8-305.000.
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Serikawa, Shiro; Endo, Akinori; and Maruyama, Koji, to Casio Computer Co., Ltd.; and Casio Electronics Manufacturing Co., Ltd. Printer for electronic computers. 290,611, 6-30-87, Cl. D14-111.000.
Session, Ardis. Mug. 292,465, 10-27-87, Cl. D7-9.000.
Sethares, William A.; and Nieuweboer, Marilyn S., to NDE Associates, Inc. Novelty integrated circuit chip figure. 289,747, 5-12-87, Cl. D11-158.000.
Seward, Barry; Woolman, Paul; Pope, Kevin C.; Redshaw, Digby R.; Hastings, Malcolm B.; and Withnall, Malcolm D. N. Packaging container for beverages. 287,932, 1-27-87, Cl. D9-305.000.
Sewell Plastics Inc.: *See—*
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Shadwell, David W., to Imperial Chemical Industries PLC. Container. 289,261, 4-14-87, Cl. D9-373.000.
Shaer, Elias H.; and Gask, Bryan, to Drackett Company, The. Toilet tank dispenser. 292,605, 11-3-87, Cl. D23-208.000.
Shaffer, Kathryn M. Chair. 292,048, 9-29-87, Cl. D6-363.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; Hardiman, Nanette B.; Veness, Cathy L.; and McSweeney, Andrea, to American Greetings Corporation. Toy lamb figure. 288,579, 3-3-87, Cl. D21-148.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Hardiman, Nanette B., to American Greetings Corporation. Toy raccoon figure. 288,580, 3-3-87, Cl. D21-148.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; Hardiman, Nanette B.; Veness, Cathy L.; and McSweeney, Andrea, to American Greetings Corporation. Toy penguin figure. 288,584, 3-3-87, Cl. D21-160.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Hardiman, Nanette B., to American Greetings Corporation. Toy lion figure. 288,585, 3-3-87, Cl. D21-163.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Hardiman, Nanette B., to American Greetings Corporation. Toy elephant figure. 288,704, 3-10-87, Cl. D21-162.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; Hardiman, Nanette B.; Veness, Cathy L.; and McSweeney, Andrea, to American Greetings Corporation. Toy rabbit figure. 288,705, 3-10-87, Cl. D21-187.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Spindle, Michael J., to American Greetings Corporation. Toy bear figure. 290,980, 7-21-87, Cl. D21-159.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Spindle, Michael J., to American Greetings Corporation. Toy bear figure. 290,981, 7-21-87, Cl. D21-159.000.
Shaffer, Ralph; Davidson, William; Kucharik, Elena; and Spindle, Michael J., to American Greetings Corporation. Toy bear figure. 290,982, 7-21-87, Cl. D21-159.000.
Shakespeare, Walter J.: *See—*
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Shames, Sidney J.; and Shames, Harold. Organizer and storage container for bathroom supplies. 287,788, 1-20-87, Cl. D3-39.000.
Shames, Sidney J.; and Shames, Harold. Sink sprayer head. 288,228, 2-10-87, Cl. D23-35.000.
Shames, Sidney J.; and Shames, Harold. Shower caddy. 288,510, 3-3-87, Cl. D6-525.000.
Shane, Robert W. Display plaque. 292,781, 11-17-87, Cl. D11-132.000.
Shape Inc.: *See—*
Gelardi, Paul J.; and MacLeod, Robert B., Jr., 288,031, Cl. D3-35.000.
Shaper, Richard. Battery pack. 292,913, 11-24-87, Cl. D13-8.000.
Shapiro, Mervyn H.; Brown, Vera; and Fishman, Yoram. Portable refrigerator. 292,711, 11-10-87, Cl. D15-83.000.
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Pollock, Robert; Patton, Douglas; Sharbaugh, David; and Goodin, John, 287,828, Cl. D10-47.000.
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Akiyama, Kunio, 289,522, Cl. D14-106.000.
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Fukuda, Harumi, 292,004, Cl. D16-31.000.
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Miyake, Masao; Takaishi, Nobuo; and Yokoyama, Shinichi, 288,475, Cl. D23-143.000.
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Moritani, Hiroshi, 293,410, Cl. D7-351.000.
Nakagawa, Takehisa; Huke, Mitsutaka; and Hatta, Chikako, 292,469, Cl. D7-350.000.
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Sharp, Michael H., to International Business Machines Corporation. Data processing logic unit. 291,317, 8-11-87, Cl. D14-114.000.
Sharp, Michael H., to International Business Machines Corporation. Display monitor. 291,695, 9-1-87, Cl. D14-113.000.
Sharp, Michael H., to International Business Machines Corporation. Adjustable display terminal. 291,805, 9-8-87, Cl. D14-113.000.
Sharpe, Stephen N., to Idea Works, Inc., The. Cable mounting block. 288,661, 3-10-87, Cl. D8-396.000.
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Shea, James P. Portable speech synthesizer for speech impaired individuals. 291,195, 8-4-87, Cl. D14-1.000.
Shearer, Alan D. Cleat cleaner. 293,164, 12-15-87, Cl. D4-118.000.
Shearer, Hugh G. Fishing lure. 293,015, 12-1-87, Cl. D22-129.000.
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Sheets, Gerald C. Hanger bracket for a flower pot or similar article. 288,282, 2-17-87, Cl. D8-373.000.
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Bick, Michael; Anderson, Robert; and Katchen, Howard, 289,713, Cl. D6-381.000.
Bick, Michael; Anderson, Robert; and Katchen, Howard, 290,069, Cl. D6-381.000.
Shelly, Nancy H. Infant feeding tray. 288,513, 3-3-87, Cl. D7-38.000.
Shepard, John S., to SISU Shelving Corporation. Shelf bracket. 287,569, 1-6-87, Cl. D8-381.000.
Shepherd, Rudolph. Font of type. 293,253, 12-15-87, Cl. D18-24.000.
Sher, Nathan. Bottle rack. 289,352, 4-21-87, Cl. D6-464.300.
Sherman, Eugene D. Safety cap remover. 289,362, 4-21-87, Cl. D8-18.000.
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Sherman, Sam S., 287,900, Cl. D2-247.000.
Sherman, Joseph. Terminal for a battery cable. 290,597, 6-30-87, Cl. D13-10.000.
Sherman, Mendel. Tennis teaching device. 289,428, 4-21-87, Cl. D21-212.000.
Sherman, Sam S., to Sherman & Gray. Protective cap. 287,900, 1-27-87, Cl. D2-247.000.
Sherman, Wilfred M.; Ellis, Vernon M.; and Phillips, Stephen R., to Shetland Company, Inc., The. Portable electric heater. 291,350, 8-11-87, Cl. D23-122.000.
Sherrill, William; Thornton, H. Patrick; and Cole, Brian S., to Automatic Dialer Partners Ltd. Combined repertory telephone dialer and electronic desk directory. 293,101, 12-8-87, Cl. D14-52.000.
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Bruno, Robert H.; Burger, Laurie J.; Kipperman, Stuart; Mayer, Geoffrey R.; Protzmann, Donald E.; and Uhl, Robert F., 293,215, Cl. D10-57.000.
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Sherman, Wilfred M.; Ellis, Vernon M.; and Phillips, Stephen R., 291,350, Cl. D23-122.000.
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Shibayama, Masato; Abe, Takeshi; Gotou, Atuyuki; Kawakami, Takashi; and Masuda, Shintaro, to Hitachi, Ltd. Industrial robot. 289,406, 4-21-87, Cl. D15-199.000.
Shibayama, Masato; Abe, Takeshi; Kawakami, Takashi; and Masuda, Shintaro, to Hitachi, Ltd. Industrial robot. 289,407, 4-21-87, Cl. D15-199.000.
Shibayama, Masato; Kinoshita, Seiji; Murata, Atsushi, and Hasegawa, Toshiyuki, to Hitachi Denshi Kabushiki Kaisha. Vehicular telephone set. 289,895, 5-19-87, Cl. D14-53.000.
Shibayama, Masato; Abe, Takeshi; Gotou, Atuyuki; Nakamura, Mituo; Takahashi, Tutomu; and Tuji, Masao, to Hitachi, Ltd. Industrial robot. 290,263, 6-9-87, Cl. D15-199.000.
Shibayama, Masato; Abe, Takeshi; Tsuji, Ko; Uchida, Akira; and Ohshiro, Masayuki, to Hitachi, Ltd. Industrial robot. 292,000, 9-22-87, Cl. D15-199.000.
Shibayama, Masato; Imaizumi, Yutaka; and Higashi, Housei, to Hitachi, Ltd. Industrial robot. 292,002, 9-22-87, Cl. D15-199.000.
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Shillington, Richard A.; and Oberschmidt, Alec, to Med-Safe Systems, Inc. Locking one-way closure for disposable containers. 292,777, 11-17-87, Cl. D9-446.000.
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Shrull, Dale. Soil compaction tester. 288,180, 2-10-87, Cl. D10-83.000.
Shuckman, George. Bath towel with pockets. 292,461, 10-27-87, Cl. D6-608.000.
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Shwisha, Haim, to Electrix, Inc. Portable reading lamp. 293,029, 12-1-87, Cl. D26-60.000.
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Simmons, William. Baby bottle or similar article. 287,787, 1-13-87, Cl. D24-47.000.
Simmons, William. Baby bottle or similar article. 288,127, 2-3-87, Cl. D24-47.000.
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Simons, Wayne K.; Meryman, Roy L.; Orr, Larry W.; and Richardson, Donald A., to Paccar Inc. Cab-over-engine truck cab. 291,870, 9-15-87, Cl. D12-96.000.
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alka, Gerald P., to Victor Stanley, Inc. Playground platform. 288,833, 3-17-87, Cl. D21-245.000.
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oog, Hans-Olov; Holmqvist, Ulf J.; and Tellden, Leif K., to ASEA Aktiebolag. Robot. 292,981, 12-1-87, Cl. D15-199.000.
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mmon, Philip J. Sports towel belt. 292,542, 11-3-87, Cl. D2-630.000.
an, Lawrence L., to Price/Stern/Sloan/Publishers, Inc. Electronic detection unit for an educational instrument. 288,337, 2-17-87, Cl. D19-59.000.
ane, Glenn L. Dust pan. 287,775, 1-13-87, Cl. D32-74.000.
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th, Alvin H. Pillow. 291,396, 8-18-87, Cl. D6-599.000.
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th, Brent E. Double hooked whistle lanyard for use by sports' officials. 292,543, 11-3-87, Cl. D3-100.000.
th, Brent E. Whistle lanyard for use by sports' official. 292,750, 11-17-87, Cl. D3-100.000.
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Smith, Ernest L., to Sealright Co., Inc. Container lid. 291,971, 9-22-87, Cl. D9-447.000.
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Smith, J. Rudy. Emergency bag. 291,149, 8-4-87, Cl. D3-48.000.
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Smith, Leal. Insect figurine. 289,270, 4-14-87, Cl. D11-158.000.
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Smith, M. Allyson, to Quaker Oats Company, The. Toy bench with vise. 293,456, 12-29-87, Cl. D21-121.000.
Smith, Martha E. Curtain rod and bracket support set or similar unit. 289,257, 4-14-87, Cl. D8-376.000.
Smith, Maurice P., to Sonca Industries, Limited. Flashlight. 290,517, 6-23-87, Cl. D26-46.000.
Smith, Peter L., to Product Pak (Australia) Pty. Limited. Combined packaging and carrying container for bottles or the like. 292,879, 11-24-87, Cl. D9-345.000.
Smith, Richard W.; and Lee, William A., to Motor Wheel Corporation. Wheel. 292,692, 11-10-87, Cl. D12-211.000.
Smith, Robert E., to Pegasus Truck Cab Conversions, Inc. Truck cab. 291,674, 9-1-87, Cl. D12-96.000.
Smith, Roland A. Combined spare tire and trailer hitch for standard receiver bars. 293,229, 12-15-87, Cl. D12-162.000.
Smith, Samuel C. Combination prying tool for can covers and tool holder. 291,861, 9-15-87, Cl. D8-37.000.
Smith, Stephen W.; and Ziegler, William H., Jr., to Brown Group Recreational Products, Inc. Knock-down tricycle. 290,940, 7-21-87, Cl. D12-113.000.
Smith, Stephen W.; and Cunard, Joel C., to Hedstrom Corporation. Bicycle. 291,187, 8-4-87, Cl. D12-111.000.
Smith, Stephen W.; and Cunard, Joel C., to Hedstrom Corporation. Child's racing bike. 291,292, 8-11-87, Cl. D12-111.000.
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Smith, Thomas J.; and Savona, Michael A., to TII Industries, Inc. Protector housing for telecommunication equipment. 287,583, 1-6-87, Cl. D14-52.000.
Smith, Thomas J.; and Urban, Ronald C., to TII Industries, Inc. Protection housing for telecommunication equipment or the like. 292,089, 9-29-87, Cl. D13-41.000.
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Smith, Vance, to Crane Co. Lavatory. 288,351, 2-17-87, Cl. D23-58.000.
Smith, Vance, to Crane Co. Lavatory. 288,352, 2-17-87, Cl. D23-58.000.
Smith, Vance, to Crane Co. Lavatory. 288,353, 2-17-87, Cl. D23-58.000.
Smith, Vance, to Crane Co. Lavatory. 288,354, 2-17-87, Cl. D23-58.000.
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Steinkamp, Norman A.; and Thomas, Richard K., to John Zink Company. Can opener. 288,403, 2-24-87, Cl. D8-36.000.
Steinkamp, Norman A., to John Zink Company. Steam iron. 290,889, 7-14-87, Cl. D32-70.000.
Steinkamp, Norman A., to Sunbeam Corporation. Hand mixer housing. 291,647, 9-1-87, Cl. D7-379.000.
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Steinkamp, Norman A.: *See—*
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Steinko, Wilh. to Mike & Kremmel Limited. Culinary press for garlic and similar materials. 288,272, 2-17-87, Cl. D7-47.000.
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Stembridge, William F.; Sturrock, James C.; and Stembridge, W. Frank, III, to Coca-Cola Company, The. Transducer housing for use in automatically filling a beverage cup. 289,880, 5-19-87, Cl. D7-397.000.
Stepanian, Edward O., to Adams Rite Manufacturing Co. Astragal door latch. 293,076, 12-8-87, Cl. D8-331.000.
Stephan, Gerhard, to Ava Tech International Ltd.; and M. R. St. Jacques Associates, Inc. Stand for trees, poles or similar article. 287,831, 1-20-87, Cl. D11-130.100.
Stephen, James C.; Tucker, James E.; Lohmeyer, Charles W.; and Beecher, John III, to Weber-Stephen Products Co. Birdfeeder. 289,094, 3-31-87, Cl. D30-15.000.
Stephen, James C.; Lohmeyer, Charles W.; Schlosser, Erich J.; and Festka, Donald E., to Weber-Stephen Products Co. Portable outdoor cooker. 293,067, 12-8-87, Cl. D7-334.000.
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Stern, Timothy R.; and Selepouchin, Vladimir, to Burroughs Corporation. Display terminal. 290,702, 7-7-87, Cl. D14-113.000.
Stevens, Brooks; Bogaerts, Leo C.; and Mountz, Craig E. Lathe. 289,656, 5-5-87, Cl. D15-130.000.
Stevens, John L. Sports car grille. 287,711, 1-13-87, Cl. D12-163.000.
Stevens, Kenneth V., to Grainware Company. Combined canape tray and glass holder. 291,957, 9-22-87, Cl. D7-70.000.
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Stevens, Philip H.; and Merritt, Charles F. T., to General Signal Corporation. Lab mixer. 290,393, 6-16-87, Cl. D24-8.000.
Stevens, Philip H.; and Merritt, Charles F. T., to General Signal Corporation. Lab mixer with adjustable shaft. 290,394, 6-16-87, Cl. D24-8.000.
Stevens, Philip H.; and Merritt, Charles F. T., to General Signal Corporation. Lab mixer with adjustable shaft. 290,395, 6-16-87, Cl. D24-8.000.
Stevens, Walter T., Jr. Clogging dance tap device. 293,161, 12-15-87, Cl. D2-317.000.
Stevenson, Charles F., to Rinn Corporation. Miniaturized dental X-ray film duplicator. 292,594, 11-3-87, Cl. D16-34.000.
Stevenson, Richard L. Modular home. 292,435, 10-20-87, Cl. D25-30.000.
Stevenson, Richard L. Modular home. 293,264, 12-15-87, Cl. D25-30.000.
Stewart, Billy S. Pet dish or the like. 287,772, 1-13-87, Cl. D30-160.000.
Stewart, Donald R. Golf club weight. 290,150, 6-2-87, Cl. D21-239.000.
Stewart, Michael M., to Ambiant Systems Limited. Table. 291,49[illegible] 12-29-87, Cl. D6-487.000.
Stewart, Ray F. Ice cube tray. 287,856, 1-20-87, Cl. D15-90.000.
Stewart, Ronald P. Coin tossing gameboard target. 292,997, 12-15-87, Cl. D21-5.000.
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Stiso, S. Nicholas; and Zuk, Robert F., to Syntex (U.S.A.) Inc. Chromatography cassette. 291,185, 8-4-87, Cl. D10-81.000.
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Stoddard, John; and Grinyer, Clive, to Ford Motor Company. Graphic equalizer. 288,198, 2-10-87, Cl. D14-1.000.
Stoddard, John; and Grinyer, Clive, to Ford Motor Company. Radio receiver. 288,199, 2-10-87, Cl. D14-68.000.
Stoddard, John; and Grinyer, Clive, to Ford Motor Company. Radio receiver. 288,200, 2-10-87, Cl. D14-68.000.
Stoddard, John; and Grinyer, Clive, to Ford Motor Company. Combined radio and cassette player. 288,316, 2-17-87, Cl. D14-5.00[illegible]
Stoddard, John; and Grinyer, Clive, to Ford Motor Company. Combined radio and cassette player. 288,806, 3-17-87, Cl. D14-5.00[illegible]
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Stoddard, John, to Ford Motor Company. Front control panel for vehicular receiver. 289,046, 3-31-87, Cl. D14-76.000.
Stoddard, John, to Ford Motor Company. Front control panel for combined vehicular cassette player and radio receiver. 290,[illegible] 4-14-87, Cl. D14-10.000.
Stoddard, John D.; Grinyer, Clive A.; and Vandermolen, Mimi J. Ford Motor Company. Front control panel for a vehicular combination tape player and radio or the like. 290,251, 6-9-87, Cl. D14-5.00[illegible]
Stoker, Alan L., to Stoker, John. Boat. 290,595, 6-30-87, Cl. D12-314.000.
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Stone, Stephen R. Sun deflector for mounting to a vehicle interior rear view mirror, 291,682, 9-1-87, Cl. D12-191.000.

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Storey, William R.; and Tager, Leon H., to Poolmaster, Inc. Pool lounger, 293,012, 12-1-87, Cl. D21-237.000.

Story, William R.; and Sharbaugh, David A., to GTE Communication Systems Corporation, Wall telephone base, 288,563, 3-3-87, Cl. D14-61.000.

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Stowell, Davin; Viemeister, Tucker; and Dair, Thomas, to Sanyei Corporation, Electric can opener, 288,277, 2-17-87, Cl. D8-36.000.

Stowell, Davin; Viemeister, Tucker; and Dair, Thomas, to Sanyei Corporation, Electric can opener, 291,173, 8-4-87, Cl. D8-36.000.

Stowell, Dennis E. Pivoted vessel for the solar heating of water, 287,999, 1-27-87, Cl. D23-72.000.

Strahan, John C.; and Lichtman, Philip R., to Acufex Microsurgical Inc. Handle for surgical instrument, 289,330, 4-14-87, Cl. D24-30.000.

Strand, Gordon A., to Owens-Illinois, Inc. Jar, 288,906, 3-24-87, Cl. D9-390.000.

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Strand, Gordon A., to Owens-Illinois, Inc. Plastic sleeve-encased jar, 289,259, 4-14-87, Cl. D9-349.000.

Strandengen, Einar, to A/S Grorud Jernvarefabrik. Slideable, resilient guide block for windows, 290,928, 7-21-87, Cl. D8-349.000.

Stratton, Kent E. Multi-picture display frame, 292,651, 11-10-87, Cl. D6-301.000.

Stravitz, David M. Cassette storage rack, 289,833, 5-19-87, Cl. D6-407.000.

Streepy, Gary, to Pizza Hut, Inc. Food preparation table for pastas, sandwiches and the like, 287,795, 1-20-87, Cl. D6-436.000.

Streit, Kenneth F., to Geerpres, Inc. Bucket, 290,897, 7-14-87, Cl. D32-53.000.

Strickland, Allen. Boat accessory extrusion, 290,950, 7-21-87, Cl. D12-317.000.

Strickland, James R. Boot heel protector, 287,660, 1-13-87, Cl. D2-277.000.

Strode, Brian K., to Nelson, David L. Fly swatter blade, 292,428, 10-20-87, Cl. D22-124.000.

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Strohmeyer, Rolf, to Vorwerk & Co. Elektrowerke KG. Carpet brush, 290,419, 6-16-87, Cl. D32-32.000.

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Strosberg, Gunter, to Robert Krups Stiftung & Co. KG. Bathroom scale, 292,497, 10-27-87, Cl. D10-92.000.

Strosek, Vittorio, to Silver Star Motors, Inc. Exterior body panel kit for attachment to an automobile body, 293,311, 12-22-87, Cl. D12-169.000.

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Strousse, Babette L.; and Kaminski, Stephen H., to Samsonite Corporation, Chaise lounge, 290,664, 7-7-87, Cl. D6-361.000.

Strousse, Babette L.; and Kaminski, Stephen H., to Samsonite Corporation, Chair, 291,035, 7-28-87, Cl. D6-380.000.

Strousse, Babette L.; and Kaminski, Stephen H., to Samsonite Furniture Co. Chair frame or similar article, 291,510, 8-25-87, Cl. D6-380.000.

Strousse, Babette L.; and Kaminski, Stephen H., to Samsonite Furniture Co. Table, 291,514, 8-25-87, Cl. D6-487.000.

Strousse, Babette L.; and Kaminski, Stephen H., to Samsonite Furniture Co. Table frame or similar article, 291,516, 8-25-87, Cl. D6-499.000.

Strousse, Babette L.; and Kaminski, Stephen H., to Samsonite Furniture Co. Base for a footstool or the like, 291,517, 8-25-87, Cl. D6-500.000.

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Stutzer, Franz A.; and Knochner, Michael, to Rowenta-Werke GmbH, Coffeemaker, 288,164, 2-10-87, Cl. D7-309.000.

Stutzer, Franz A., to Rowenta-Werke GmbH, Gas lighter, 289,449, 4-21-87, Cl. D27-36.000.

Stutzer, Franz A.; and Knochner, Michael, to Rowenta-Werke GmbH, Food processor, 290,676, 7-7-87, Cl. D7-384.000.

Stutzer, Franz A.; and Knochner, Michael, to Rowenta-Werke GmbH, Food processor, 290,677, 7-7-87, Cl. D7-384.000.

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Sugarbaker, Paul H.; and Hancock, John C., to Baxter Travenol Laboratories, Inc. Intrapelvic displacement prosthesis, 291,248, 8-4-87, Cl. D24-33.000.

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Suits, Bevan D. Convertible rest lounge, 289,948, 5-26-87, Cl. D6-335.000.

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Johns, David L., 290,405, Cl. D26-37.000.

Sundberg, Borje E. L., to Nordisk Kartro Aktiebolag. Sheet metal nail. 288,776, 3-17-87, Cl. D8-389.000.

Sundberg, Borje E. L., to Nordisk Kartro Aktiebolag. Sheet metal nail. 289,258, 4-14-87, Cl. D8-389.000.

Sundowner Industries, Inc.: *See—*
Kuykendall, William F., 289,278, Cl. D12-191.000.

Sunnen Products Company: *See—*
Rembold, David C., 291,649, Cl. D8-14.000.

Sunray, Bernard. Greeting card. 292,596, 11-3-87, Cl. D19-6.000.

Suomen Vuolukivi Oy: *See—*
Hakonen, Hannu, 289,433, Cl. D23-93.000.

Supelco, Inc.: *See—*
Wachob, George D.; and Rightmour, Robert W., 289,861, Cl. D10-81.000.

Super, Bernard F. Holder for woodcarving. 289,253, 4-14-87, Cl. D8-71.000.

Super Glue Corporation: *See—*
Salacuse, Frank S., 289,009, Cl. D8-373.000.

Supercruiser, Inc.: *See—*
Heilig, Mort, 293,340, Cl. D21-81.000.

Superior Toy & Mfg. Co., Inc.: *See—*
Tveras, R.m; Landsman, Michael G.; and Patterson, Keith, 289,219, Cl. D99-39.000.

Suponitsky, Lenny, to Bollinger Industries, Inc. Curling bar. 290,485, 6-23-87, Cl. D21-198.000.

Support Systems International, Inc.: *See—*
Goodwin, Vernon L., 289,951, Cl. D6-390.000.

Surpuriya, Vijay; and Gudas, Charles J., to Scholl, Inc. Athletic shoe insole. 288,621, 3-10-87, Cl. D2-318.000.

Surpuriya, Vijay; and Gudas, Charles J., to Scholl, Inc. Shoe heel insert. 291,742, 9-8-87, Cl. D2-314.000.

Susan, John L. Umbrella handle. 293,388, 12-29-87, Cl. D3-12.000.

Sussman, Howard. Organizer cabinet for men's toiletry items. 287,682, 1-13-87, Cl. D6-524.000.

Sussman, Howard. Organizer for lipaticks and similar articles. 288,012, 1-27-87, Cl. D28-86.000.

Sussman, Howard. Overnight storage device for miscellaneous pocket items and jewelry or similar articles. 288,986, 3-31-87, Cl. D3-75.000.

Sussman, Howard. Stackable storage container. 289,105, 4-7-87, Cl. D3-30.100.

Sussman, Howard. Trash bag holder. 292,036, 9-22-87, Cl. D34-6.000.

Sutoh, Shigeru; and Hara, Kunio, to Kabushiki Kaisha Toshiba. Optical disk. 289,874, 5-19-87, Cl. D14-114.000.

Sutou, Masatoki; Nishiseko, Jun; Onishi, Takako; Yamagishi, Seiichi; Anderson, Walter F., Jr.; and Sabo, Brian D., to Minolta Camera Kabushiki Kaisha; and Minnesota Mining & Manufacturing Co. Remote controller for a printer. 290,969, 7-21-87, Cl. D18-22.000.

Sutou, Masatoki; Maeda, Yutaka; Anderson, Walter F., Jr.; and Kochevar, James W., to Minolta Camera Kabushiki Kaisha; and Minnesota Mining and Manufacturing Company. Magazine for supplying film for a printer. 293,390, 12-29-87, Cl. D3-35.000.

Suvak, William S., and Snyder, Lloyd L., to Smith Cabinet Manufacturing Company, Inc. Crib end. 290,322, 6-16-87, Cl. D6-508.000.

Suzuki, Atsuhiro, to Car Mate Mfg. Co. Ltd. Wire tester with flashlight. 291,288, 8-11-87, Cl. D10-78.000.

Suzuki, Atsushi: *See—*
Kubo, Kazuhiko; Tsuda, Masanori; Hirota, Taisuke; Hosoya, Kazuyuki; Torii, Ichirou; and Suzuki, Atsushi. 292,130, Cl. D9-3.000.

Suzuki, Junko: *See—*
Ito, Masafumi; Hasegawa, Sigeru; Takita, Haruki; Suzuki, Junko; and Suzuki, Kouji. 288,437, Cl. D14-5.000.

Suzuki, Koji: *See—*
Ito, Masafumi; Suzuki, Koji; Hasegawa, Shigeru; and Takita, Haruki. 291,196, Cl. D14-5.000.

Suzuki, Kouji: *See—*
Ito, Masafumi; Hasegawa, Sigeru; Takita, Haruki; Suzuki, Junko; and Suzuki, Kouji. 288,437, Cl. D14-5.000.
Itoh, Masafumi; Hasegawa, Sigeru; Takita, Haruki; and Suzuki, Kouji. 287,726, Cl. D14-109.000.

Suzuki Manufacturing, Ltd.: *See—*
Sakuma, Kouichi, 289,768, Cl. D15-69.000.

Suzuki, Masakatsu: *See—*
Futatsugi, Mitsuyuki; Takizawa, Fuminobu; Yamazaki, Hiroi; Suzuki, Masakatsu; Domon, Yoshihiro; and Fujita, Toshiaki. 292,320, Cl. D26-3.000.

Suzuki, Masanori, to TIE/Communications, Inc. Telephone station set. 288,319, 2-17-87, Cl. D14-58.000.

Suzuki, Masanori, to TIE/Communications, Inc. Telephone station set. 288,659, 3-10-87, Cl. D14-58.000.

Suzuki, Shigehiko, to Sumitomo Rubber Industries, Ltd. Motorcycle tire. 292,086, 9-29-87, Cl. D12-147.000.

Suzuki, Susumu; and Fukasawa, Naoto, to Seiko Epson Corporation. Television receiver. 289,047, 3-31-87, Cl. D14-77.000.

Suzuki, Susumu; and Fukasawa, Naoto, to Seiko Epson Kabushiki Kaisha. Television receiver. 289,756, 5-12-87, Cl. D14-77.000.

Suzuki, Tadao: *See—*
Takada, Kazuo; Egashira, Teruaki; Ikegami, Yoichi; Kosai, Kazuhiro; and Suzuki, Tadao, 291,765, Cl. D7-309.000.

Suzuki, Takeshi; and Takahashi, Mamoru, to NEC Corporation. Combination handset and stand cellular telephone unit. 291,801, 9-8-87, Cl. D14-53.000.

Suzuki, Tatsuya, to Tomy Kogyo Co., Inc. Toy vehicle. 291,8[illegible] 12-1-87, Cl. D21-87.000.

Suzuki, Tatsuya, to Tomy Kogyo Co., Inc. Toy vehicle. 292,2[illegible] 12-15-87, Cl. D21-128.000.

Suzuki, Toshiaki, to Sumitomo Rubber Industries, Ltd. Automobile tire. 292,084, 9-29-87, Cl. D12-147.000.

Suzuki, Toshiro; and Ino, Seiichi, to Kawasaki Jukogyo Kabushiki Kaisha. Motorboat. 289,990, 5-26-87, Cl. D12-307.000.

Suzuki, Toshiro; and Ino, Seiichi, to Kawasaki Jukogyo Kabushiki Kaisha. Motorboat. 289,991, 5-26-87, Cl. D12-307.000.

Suzuki, Yosuke; and Sano, Takahide, to Kabushiki Kaisha Toshiba. Television tuner. 293,315, 12-22-87, Cl. D14-84.000.

Suzuki, Yosuke: *See—*
Hoshino, Naoko; Abe, Takashi; and Suzuki, Yosuke. 291,[illegible] D14-71.000.
Hoshino, Naoko; and Suzuki, Yosuke. 293,437, Cl. D14-[illegible]

Svensson, Ingemar. Combined yoke and lifting apparatus. 2[illegible] 1-13-87, Cl. D34-28.000.

Sveda, John; and Marona, Robert N., to M. Grumbacher, Inc. Display module for booklets and the like. 292,659, 11-10-87, Cl. D6-[illegible]

Swan Corporation, The: *See—*
Moore, John W., 293,401, Cl. D6-540.000.

Swanson, Dennis E.; Lerum, Robert D.; and Grunstad, Jerome A. Power Flo Products Corp. Handle for power operated paint system. 290,067, 6-2-87, Cl. D4-122.000.

Swanson, Walter F. Bar of soap. 293,487, 12-29-87, Cl. D28-[illegible]

Swartz, William J.: *See—*
Deatherage, Robert L.; Schober, Stephen D.; and Swartz, William J., 288,737, Cl. D32-5.000.

Swedish Telecommunications Administration: *See—*
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Swenson, Duain: *See—*
Swenson, Neil C.; and Swenson, Duain. 290,315, Cl. D6-[illegible]
Swenson, Neil C.; and Swenson, Duain. Combined picnic table and canopy therefor. 290,315, 6-16-87, Cl. D6-337.000.

Swiss-Tex, Incorporated: *See—*
Greer, Richard E., Sr., 291,258, Cl. D32-40.000.

Sykes, Donald J., to Marpac Industries, Inc. Container for tablets and the like. 292,372, 10-20-87, Cl. D9-339.000.

Syler, Robert L.: *See—*
Ansell, Daniel F.; Anzelone, Thomas A.; Davis, Myron F.; Greenfield, John; Syler, Robert L.; and Yeaw, Harold D., 289,[illegible] D14-106.000.
Davis, Myron F.; Jordan, Willis Y., III; Kraus, Walter F.; and Syler, Robert L., 293,443, Cl. D14-100.000.

Sylvan, Richard: *See—*
Handler, Milton E.; Sylvan, Richard; Baisch, Herbert; and Peterson, Michael, 291,037, Cl. D6-432.000.
Handler, Milton E.; Sylvan, Richard; and Peterson, Michael, 293,052, Cl. D6-431.000.

Sylvester, Gordon E.; Tilley, Alvin R., and Wyckoff, Robert E., AT&T Bell Laboratories. Terminal housing. 288,445, 2-24-87, Cl. D14-106.000.

Sylvester, Gordon E.; Tilley, Alvin R.; and Wyckoff, Robert E., American Telephone and Telegraph Company, AT&T Bell Labs.

tories. Adjustable work table or similar article. 289,240, 4-14-87, Cl. D6-429.000.

Sylvester, Gordon E.: *See*—
Day, Alvin D.; Miggels, Stephen G.; Nuttall, Michael J.; and Sylvester, Gordon E., 290,703, Cl. D14-113.000.
Frost, David P.; and Sylvester, Gordon E., 290,006, Cl. D14-60.000.
Giordano, Joseph J., Jr.; Joffe, Richard M.; Loosme, Oskar; and Sylvester, Gordon E., 289,284, Cl. D14-54.000.
Giordano, Joseph J., Jr; Joffe, Richard M.; Loosme, Oskar; and Sylvester, Gordon E., 289,285, Cl. D14-54.000.

Sylvia, B. Ralph: *See*—
McLaughlin, John T.; Fell, Michael J.; Sylvia, B. Ralph; and Porter, William F., 289,738, Cl. D9-418.000.

Syntex (U.S.A.) Inc.: *See*—
Stiso, S. Nicholas; and Zuk, Robert F., 291,185, Cl. D10-81.000.

Synthaxe Limited: *See*—
Aitken, William A.; Sedivy, Anthony J.; and Dixon, Michael S., 289,900, Cl. D17-14.000.

Syracuse China Corporation: *See*—
Mattson, Jeanette, 293,187, Cl. D7-39.000.
Mattson, Jeanette, 293,406, Cl. D7-39.000.
Unger, Steve A., 287,683, Cl. D7-39.000.
Unger, Steve A., 288,044, Cl. D7-6.000.
Unger, Steve A., 288,045, Cl. D7-9.000.
Unger, Steve A., 288,047, Cl. D7-20.000.
Unger, Steve A., 288,048, Cl. D7-20.000.
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Unger, Steve A., 288,051, Cl. D7-28.000.
Unger, Steve A., 288,397, Cl. D7-9.000.
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Syrek, Gerald M.: *See*—
McDermott, Peter B.; and Syrek, Gerald M., 288,954, Cl. D23-34.000.

Syverson, Jon R., to Fountain Industries, Inc. Hot beverage server. 289,129, 4-7-87, Cl. D7-305.000.

Szablak, Michael J.; and Tomblin, Glen E., to Rubbermaid Commercial Products Inc. Disposable receptacle for a needle and syringe destructor. 287,756, 1-13-87, Cl. D24-99.000.

Szeklicki, John R.: *See*—
Angelico, Paul J.; Crumb, Richard N.; and Szeklicki, John R., 288,534, Cl. D9-418.000.

Szempruch, Walter T.: *See*—
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Szymski, Eugene J.; and Mraz, Rene, to Exclesior Fitness Equipment Co. Exerciser frame. 289,792, 5-12-87, Cl. D21-194.000.

T A Pelsue Company: *See*—
Beavers, Allan E., 291,243, Cl. D23-162.000.

T H D. Donut (Delaware), Inc.: *See*—
Buist, Ronald W., 289,955, Cl. D7-3.000.

Tabach, Julius I. Banana tree rack. 290,200, 6-9-87, Cl. D6-462.000.

Tabachnik, Joel B., to Talbot Toys Ltd. Headphone. 291,690, 9-1-87, Cl. D14-16.000.

Tabuh, Victor V. Peanut butter machine. 290,331, 6-16-87, Cl. D7-372.000.

Tahakian, Varouj, to Jewellery by Varouj Inc. Pendant. 291,665, 9-1-87, Cl. D11-83.000.

Tabler, Charles P., to Buckhorn Material Handling Group Inc.; and Elco Products, Inc. Bakery basket. 290,778, 7-7-87, Cl. D34-40.000.

Tacket, William C. Game board. 291,213, 8-4-87, Cl. D21-31.000.

Tag, Palmer L.; and Case, Robert, to Abbott Laboratories. Diagnostic instrument carousel or the like. 289,199, 4-7-87, Cl. D24-31.000.

Tag, Palmer L.: *See*—
Carr, David B.; Lingenfelter, Keith M.; Mitchell, James E.; Moore, Larry W.; Tag, Palmer L.; and Case, Robert, 287,634, Cl. D24-31.000.

Tage Bjorkman & Son AB: *See*—
Bjorkman, Jimmy, 292,671, Cl. D8-382.000.

Tage & Soner Byggnadsfirma AB: *See*—
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Tager, Leon H.: *See*—
Storey, William R.; and Tager, Leon H., 293,012, Cl. D21-237.000.

Taguchi, Masayuki, to Amada Company, Limited. Bandsaw machine. 292,931, 11-24-87, Cl. D15-134.000.

Tagums, Inc.: *See*—
Smith, Susan, 291,898, Cl. D20-24.000.

Tai-Kam, Wong. Dual magnifying glass. 291,448, 8-18-87, Cl. D16-135.000.

Tai Tung International, Inc.: *See*—
Kwan, Luk C., 288,947, Cl. D21-111.000.

Tai Way (Shing Kee) Toys Co. Ltd.: *See*—
Lau, Yuk F., 288,344, Cl. D21-150.000.

Takabatake, Hideo, to Yoshida Kogyo, K. K. Slider for slide fastener. 291,670, 9-1-87, Cl. D11-221.000.

Takada, Kazuo; Fujiwara, Tadanori; Izumi, Miyo; Ogata, Yayoi; Mikami, Hitomi; and Yabe, Eriko, to Sanyo Electric Co., Ltd. Toaster oven. 287,562, 1-6-87, Cl. D7-350.000.

Takada, Kazuo; Egashira, Teruaki; Ikegami, Yuichi; Konishi, Kazuhiro; and Suzuki, Tadao, to Sanyo Electric Co., Ltd. Coffee maker. 291,765, 9-8-87, Cl. D7-309.000.

Takada, Sanae: *See*—
Kato, Shigemasa; and Takada, Sanae, 287,595, Cl. D14-111.000.
Kato, Shigemasa; and Takada, Sanae, 287,596, Cl. D14-111.000.
Kato, Shigemasa; and Takada, Sanae, 287,973, Cl. D14-111.000.
Kato, Shigemasa; and Takada, Sanae, 288,096, Cl. D14-111.000.

Takagi, You, to Pioneer Electronic Corporation. Car speaker. 289,281, 4-14-87, Cl. D14-30.000.

Takagi, You, to Pioneer Electronic Corporation. Loudspeaker. 290,698, 7-7-87, Cl. D14-30.000.

Takahashi, Akemi: *See*—
Aoki, Takao; Kiyota, Toru; Takahashi, Akemi; Tanaka, Ryuichiro; Kogane, Hiroyuki; Higashihara, Toru; Kawaguchi, Mitsuo; and Kashima, Taisuke, 289,161, Cl. D14-82.000.
Ariyoshi, Tsukasa; Aoki, Takao; Tsuburaya, Kazuyuki; Kiyota, Toru; Tanaka, Ryuichiro; and Takahashi, Akemi, 291,572, Cl. D14-81.000.

Takahashi, Haruhiko, to International Business Machines Corporation. Printer for electronic computer or the like. 290,125, 6-2-87, Cl. D14-111.000.

Takahashi, Katsumasa, to Kitagawa Industries Co., Ltd. Hinge. 291,530, 8-25-87, Cl. D8-325.000.

Takahashi, Katsumasa, to Kitagawa Industries Co., Ltd. Spacer. 292,872, 11-24-87, Cl. D8-354.000.

Takahashi, Kazuaki: *See*—
Tamada, Kenji; Yamakawa, Junya; and Takahashi, Kazuaki, 291,208, Cl. D18-12.000.

Takahashi, Kazuyuki: *See*—
Yamamoto, Etsushi; Takahashi, Kazuyuki; and Oe, Yasuhiro, 288,896, Cl. D8-65.000.

Takahashi, Kunio, to Uchida Manufacturing Co., Ltd. Oil stove. 288,000, 1-27-87, Cl. D23-121.000.

Takahashi, Mamoru: *See*—
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Takahashi, Masaki; and Mizuno, Shigeo, to Nishiyama Corporation. Ventilator for container. 288,121, 2-3-87, Cl. D23-139.000.

Takahashi, Masaki, to Canon Kabushiki Kaisha. Personal computer. 290,122, 6-2-87, Cl. D14-100.000.

Takahashi, Masami: *See*—
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Takahashi, Masao: *See*—
Nagai, Gen; Ohsawa, Takao; Takayama, Hideki; and Takahashi, Masao, 292,629, Cl. D32-6.000.

Takahashi, Masayuki: *See*—
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Anno, Kouji; and Takahashi, Masayuki, 289,640, Cl. D14-53.000.

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Takahashi, Seigo; Nishimura, Takeji; and Koizumi, Hiroshi, to Mitutoyo Mfg. Co., Ltd. Data processor for measuring instruments. 288,514, 3-17-87, Cl. D14-100.000.

Takahashi, Shinichiro: *See*—
Saito, Etsuro; Nemoto, Tsuneo; and Takahashi, Shinichiro, 292,291, Cl. D14-114.000.

Takahashi, Shoji, to Kabushiki Kaisha Shinsei Industries. Combined labeler and replaceable tape cartridge therefor. 292,102, 9-29-87, Cl. D18-19.000.

Takahashi, Tomoyuki, to International Business Machines Corporation. Computer display monitor. 290,362, 6-16-87, Cl. D14-113.000.

Takahashi, Tsuneo; Andoh, Takaharu; Morioka, Kyouichi; and Washizuka, Keiichi, to Kabushiki Kaisha Toshiba; and Tokyo Electric Co., Ltd. Electric vacuum cleaner. 289,097, 3-31-87, Cl. D32-24.000.

Takahashi, Tsuneo: *See*—
Kawarabayashi, Keiichiro; Yoshimoto, Kazuo; and Takahashi, Tsuneo, 292,289, Cl. D14-100.000.
Morioka, Kyouichi; Takahashi, Tsuneo; Andoh, Takaharu; and Washizuka, Keiichi, 288,972, Cl. D32-24.000.

Takahashi, Tutomu: *See*—
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Takami, Masaho, to Shoko Kiko Co., Ltd. Anvil for a stapler. 291,770, 9-8-87, Cl. D8-50.000.

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Takara Co., Ltd.: *See*—
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Maruyama, Masaki, 287,607, Cl. D21-109.000.
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Takasaka, Akira; Nuttall, Michael; and Weiland, Herbert, to Tomy Kogyo Co., Inc. Simulative toy fortress. 288,453, 2-24-87, Cl. D21-59.000.

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Takeda, Koshiro: *See*—
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Takehara, Kenji, to Sumitomo Rubber Industries, Ltd. Automobile tire. 287,838, 1-20-87, Cl. D12-143.000.

Takehara, Kenji, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,079, 2-3-87, Cl. D12-146.000.

Takehara, Kenji, to Sumitomo Rubber Industries, Ltd. Automobile tire. 290,104, 6-2-87, Cl. D12-143.000.

Takeichi, Takashi, to Casio Computer Co., Ltd. Wristwatch. 292,678, 11-10-87, Cl. D10-39.000.

Takemasa, Hideji, to NEC Home Electronics. Printer. 287,720, 1-13-87, Cl. D14-111.000.

Takemoto, Masaki; and Arai, Noriyuki, to Matsushita Electric Industrial Co., Ltd. Combined video tape recorder and video camera. 289,893, 5-19-87, Cl. D14-5.000.

Takemoto, Masaki: *See*—
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Takemura, Haruhiko; Matsubayashi, Nobuhide; Yanagida, Tsuneo; and Sakamoto, Masaharu, to Olympus Optical Company, Ltd. Optical pickup for use in optical discs. 288,558, 3-3-87, Cl. D14-1.000.

Takenoya, Masato; and Nishio, Hideaki, to Bridgestone Corporation. Automobile tire. 288,308, 2-17-87, Cl. D12-146.000.

Takeuchi, Akihiro, to Sumitomo Rubber Industries, Ltd. Automobile tire. 287,706, 1-13-87, Cl. D12-146.000.

Takeuchi, Akihiro, to Sumitomo Rubber Industries, Ltd. Automobile tire. 287,953, 1-27-87, Cl. D12-146.000.

Takeuchi, Akihiro, to Sumitomo Rubber Industries, Ltd. Automobile tire. 288,083, 2-3-87, Cl. D12-148.000.

Takeuchi, Akihiro, to Sumitomo Rubber Industries, Ltd. Automobile tire. 292,078, 9-29-87, Cl. D12-141.000.

Takeuchi, Akitaka; Abe, Takeshi; Endo, Hiroshi, Shimizu, Hideyasu; and Tsunematsu, Shinichiro, to Hitachi, Ltd. Facsimile transceiver. 288,444, 2-24-87, Cl. D14-94.000.

Takezono, Masatsugu, to Teiemu Giken Kabushiki Kaisha. Amphibian bicycle. 292,970, 12-1-87, Cl. D12-3.000.

Takita, Haruki: *See*—
Ito, Masafumi; Hasegawa, Sigeru; Takita, Haruki; Suzuki, Junko; and Suzuki, Kouji, 288,437, Cl. D14-5.000.
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Itoh, Masafumi; Hasegawa, Sigeru; Takita, Haruki; and Suzuki, Kouji, 287,726, Cl. D14-109.000.

Takizawa, Fuminobu: *See*—
Futatsugi, Mitsuyuki; Takizawa, Fuminobu; Yamazaki, Hitoshi; Suzuki, Masakatsu; Domon, Yoshihiro; and Fujita, Toshiharu, 292,320, Cl. D26-3.000.

Takizawa, Toshiaki, to Tomy Kogyo Co., Inc. Game housing. 288,452, 2-24-87, Cl. D21-12.000.

Takizawa, Toshiaki, to Tomy Kogyo Co., Inc. Toy robot. 293,345, 12-22-87, Cl. D21-150.000.

Talbot Toys Ltd.: *See*—
Tabachnik, Joel B., 291,690, Cl. D14-36.000.

Taljaard, Jakobus A. A., to I. Fishman (Proprietary) Limited; and Petty Plastics (Proprietary) Limited. Petit-four presser. 289,595, 5-5-87, Cl. D7-43.000.

Talmon, David K.: *See*—
Talmon, Floyd H.; and Talmon, David K., 289,706, Cl. D6-356.000.

Talmon, Floyd H., and Talmon, David K., to Air-Lock Plastics, Inc. Seat. 289,706, 5-12-87, Cl. D6-356.000.

Talopp, Jean R., to Allibert SA. Tape cassette case. 288,982, 3-31-87, Cl. D3-35.000.

Talvan, Theodore: *See*—
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Tamada, Kenji; Yamakawa, Junya; and Takahashi, Kazuaki, to Silver Seiko Limited. Print wheel cartridge for typewriter. 291,208, 8-4-87, Cl. D18-12.000.

Tamada, Kenji: *See*—
Kasagi, Taro; Tamada, Kenji; and Aoki, Hideo, 290,616, Cl. D18-1.000.
Kasagi, Taro; Tamada, Kenji; and Aoki, Hideo, 291,323, Cl. D18-1.000.

Tamaki, Yasuyuki: *See*—
Tsuruta, Takeshi; Yoshitani, Takuo; Kanoh, Shosaku; Kamiya, Eiichi; and Tamaki, Yasuyuki, 291,254, Cl. D14-113.000.

Tamakoshi, Shin, to Kabushiki Kaisha Taito. Walking robot. 292,110, 9-29-87, Cl. D21-150.000.

Tamamura, Hideo: *See*—
Yoshida, Michio; and Tamamura, Hideo, 289,176, Cl. D16-8.000.

Tambrands Inc.: *See*—
Covell, Edward F.; and Shaw, Raymond C., 288,479, Cl. D24-17.000.
Covell, Edward F.; and Cannon, Lovick E., III, 288,716, Cl. D24-17.000.

Tami, Roger. Toy catapult. 288,215, 2-10-87, Cl. D21-2.000.

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Tanaka, Akio; and Katsuno, Akira, to Pioneer Electronic Corporation. Speaker. 290,697, 7-7-87, Cl. D14-30.000.

Tanaka, Fumio; and Imoto, Shin'ichi, to Alpine Electronics Inc. Handset telephone and stand unit. 287,586, 1-6-87, Cl. D14-53.000.

Tanaka Manufacturing Co., Ltd.: *See*—
Tanaka, Yoshihisa, 287,942, Cl. D10-53.000.
Tanaka, Yoshihisa, 287,943, Cl. D10-53.000.
Tanaka, Yoshihisa, 288,536, Cl. D10-53.000.
Tanaka, Yoshihisa, 288,537, Cl. D10-57.000.

Tanaka, Masanori: *See*—
Kobayashi, Osamu; Tanaka, Masanori; Akagawa, Masaki; and Yamagishi, Ryoji, 292,008, Cl. D20-9.000.
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Tanaka, Noboru; and Sahori, Daisuke, to Canon Kabushiki Kaisha. Date and time display board. 289,621, 5-5-87, Cl. D10-125.000.

Tanaka, Ryuichiro: *See*—
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Tanaka, Takayuki, to Ishizuka Glass Kabushiki Kaisha. Tumbler. 289,356, 4-21-87, Cl. D7-14.000.

Tanaka, Toshiaki, to Citizen Watch Co., Ltd. Watch case. 293,419, 12-29-87, Cl. D10-39.000.

Tanaka, Toshiaki, to Citizen Watch Co., Ltd. Watch case. 293,420, 12-29-87, Cl. D10-39.000.

Tanaka, Yasuhiko: *See*—
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Miyamoto, Isshin; Nagamatsu, Yasuo; Tanaka, Yasuhiko; Hidaka, Masataka; Sakamoto, Masaharu; and Sakamoto, Hideaki, 291,449, Cl. D18-1.000.

Tanaka, Yasuo. Digital audio compact disk player. 288,559, 3-3-87, Cl. D14-1.000.

Tanaka, Yasuo, to Sanyo Electric Co., Ltd.; and Tokyo Sanyo Electric Co., Ltd. Combined tape recorder, tuner, amplifier and record player. 290,002, 5-26-87, Cl. D14-5.000.

Tanaka, Yasuo; and Kanou, Kenzo, to Sanyo Electric Co., Ltd. Digital audio compact disk player. 290,253, 6-9-87, Cl. D14-14.000.

Tanaka, Yoshihisa, to Tanaka Manufacturing Co., Ltd. Combined thermometer and compass unit for vehicles. 287,942, 1-27-87, Cl. D10-53.000.

Tanaka, Yoshihisa, to Tanaka Manufacturing Co., Ltd. Combined thermometer and compass unit for vehicles. 287,943, 1-27-87, Cl. D10-53.000.

Tanaka, Yoshihisa, to Tanaka Maunfacturing Co., Ltd. Thermometer for vehicles. 288,413, 2-24-87, Cl. D10-57.000.

Tanaka, Yoshihisa, to Tanaka Manufacturing Co., Ltd. Combined thermometer-hygrometer gauge unit. 288,536, 3-3-87, Cl. D10-53.000.

Tanaka, Yoshihisa, to Tanaka Manufacturing Co., Ltd. Thermometer for vehicles. 288,537, 3-3-87, Cl. D10-57.000.

Tanaka, Yoshihisa, to Akimoto & Co. Sunglasses holder for a vehicle. 292,595, 11-3-87, Cl. D16-129.000.

Tandy Corp.: *See*—
Grae, Bernard A., 289,931, Cl. D26-50.000.

Tani, Sadao: *See*—
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Taniguchi, Syuhei, to Sony Corporation. Radio receiver or the like. 291,084, 7-28-87, Cl. D14-68.000.

Tanii, Yutaka: *See*—
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Tanikawa, Seishi, to Kameyama Candle Company Limited. Candle. 289,439, 4-21-87, Cl. D26-7.000.

Tanner, Howard M. C., to HGM, Inc. Laser cabinet. 288,435, 2-24-87, Cl. D13-19.000.

Tannies Corporation: *See*—
Daugherty, Ralph V., 292,556, Cl. D9-329.000.
Tantron International Corporation: *See*—
Wang, Arthur, 292,580, Cl. D14-53.000.
Tapdrup, Erik P., to Interlego A.G. Toy building unit. 291,217, 8-4-87, Cl. D21-108.000.
Tapdrup, Erik P., to Interlego A.G. Toy windmill arm or similar article. 293,255, 12-15-87, Cl. D21-119.000.
Tapocik, Claudette M. Toothbrush. 289,826, 5-19-87, Cl. D4-105.000.
Tarasevich, Dennis A.; Edstrom, Richard C.; Hirst, Richard N.; Pressler, David O.; and Myers, Herbert M., to BASF Corporation. Bottle or the like. 288,531, 3-3-87, Cl. D9-376.000.
Tardif, Pierre, to Genin Trudeau & Cie Ltd. Tumbler or similar article. 288,766, 3-17-87, Cl. D7-15.000.
Tardif, Pierre, to Genin-Trudeau & Cie Limited. Pitcher. 291,270, 8-11-87, Cl. D7-317.000.
Tarlow, Rose. Chair. 293,168, 12-15-87, Cl. D6-334.000.
Tarlton, Curtis S.; and Ford, Richard A., to C. & T. Tarlton, Inc. Spiral conveyor. 292,938, 11-24-87, Cl. D34-29.000.
Tarrson, Emanuel B.; Maric, Dane; and Kelly, Thomas P., to John O. Butler Company. Toothbrush. 291,504, 8-25-87, Cl. D4-104.000.
Tarrson, Emanuel B.; Maric, Dane; and Kelly, Thomas P., to John O. Butler Company. Interdental brush. 291,505, 8-25-87, Cl. D4-104.000.
Tasca International Ltd.: *See*—
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Yoshiharu, Takei, 291,693, Cl. D14-64.000.
Yoshiharu, Takei, 292,094, Cl. D14-64.000.
Yoshiharu, Takei, 292,095, Cl. D14-64.000.
Yoshiharu, Takei, 292,581, Cl. D14-64.000.
Tash, George. Combined toilet bowl plunger and holder. 292,631, 11-3-87, Cl. D32-14.000.
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Taub, Hal. Dog collar. 289,454, 4-21-87, Cl. D30-38.000.
Taub, Ronald H., to Taub Family Trust. Display stand with storage container or similar article. 289,838, 5-19-87, Cl. D6-475.000.
Taube, Ernest C. Pool cue bridge. 291,466, 8-18-87, Cl. D21-232.000.
Taveau, Michel, to Societe Industrielle de Liaisons Electriques - S.I.L.-E.C. Handset telephone. 290,255, 6-9-87, Cl. D14-63.000.
Taylor, Albert K.; and Baumgartner, Robert L., to Plough, Inc. Eye makeup applicator. 290,173, 6-2-87, Cl. D28-7.000.
Taylor, Beverly W., to Handi-Pac, Inc. Toy lap desk. 287,741, 1-13-87, Cl. D21-121.000.
Taylor, Beverly W., to Blanke Plastic Company. Surgical suction collector. 288,129, 2-3-87, Cl. D24-56.000.
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Taylor, Jack M. Leg pouch. 288,743, 3-17-87, Cl. D3-106.000.
Taylor, Jack M. Money pouch. 288,744, 3-17-87, Cl. D3-106.000.
Taylor, Joseph P.: *See*—
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Taylor, Larry M.; and Wetherell, Richard B., Jr., to Monsanto Company. Bottle. 288,294, 2-17-87, Cl. D9-408.000.
Taylor, Larry M., to Monsanto Company. Bottle. 291,283, 8-11-87, Cl. D9-398.000.
Taylor, Larry M., to Monsanto Company. Bottle. 291,284, 8-11-87, Cl. D9-412.000.
Taylor, Larry W. Food pouch opener. 289,133, 4-7-87, Cl. D8-41.000.
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Taylor, Mark L. Training harness for track and field athletes. 290,983, 7-21-87, Cl. D21-191.000.
Taylor, Robert. Oven for use on a stove top. 288,519, 3-3-87, Cl. D7-348.000.
Taylor, Terrance N., to Motorola, Inc. Dialing back plate for a handset telephone. 292,578, 11-3-87, Cl. D14-62.000.
Taylor, Terrance N., to Motorola, Inc. Dialing back plate for a handset telephone. 292,920, 11-24-87, Cl. D14-62.000.
Taylor, Terry L.: *See*—
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Taylor, William D., to Rubbermaid Incorporated. Bird feeder. 290,769, 7-7-87, Cl. D30-13.000.
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Duffin, Thorvald E., II, 291,699, Cl. D14-114.000.
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Duffin, Thorvald E., II, 291,993, Cl. D14-114.000.
Duffin, Thorvald E., II, 291,994, Cl. D14-114.000.
Duffin, Thorvald E., II, 291,995, Cl. D14-114.000.
Duffin, Thorvald E., II, 291,996, Cl. D14-114.000.
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Duffin, Thorvald E., II, 291,998, Cl. D14-114.000.
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Technicare Corporation: *See*—
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Ten Eyck, Richard E.; and Israel, Gary P., to Brunswick Corporation. Spinning fishing reel. 290,989, 7-21-87, Cl. D22-141.000.
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Nakamura, Kazuharu, 290,036, Cl. D23-123.000.
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Tranchida, Precious E. Coin bank. 288,259, 2-10-87, Cl. D99-37.000.
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Tratner, Alan A. Bicycle chassis. 289,867, 5-19-87, Cl. D12-111.000.
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Traylor, William C., Jr., to Whirlpool Corporation. Vacuum cleaner hose handle. 293,498, 12-29-87, Cl. D32-31.000.
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Trelford, Alan; and Cunningham, Laurence T., to Black & Decker Inc. Collector box for lawnmowers, lawnrakers or the like. 288,098, 2-3-87, Cl. D15-17.000.
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Trezise, Richard D.; and Kittrell, Wiley A., to Electronic Publishing Systems, Inc. Pluggable FM receiver cartridge. 290,119, 6-2-87, Cl. D14-76.000.
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Tron, Gus G., to Drexel Heritage Furnishings, Inc. Chair. 289,949, 5-26-87, Cl. D6-376.000.

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Troup, John D. Device for handling patients. 289,274, 4-14-87, Cl. D12-133.000.

Trout, Willis Z. Vacuum sander head plate. 289,728, 5-12-87, Cl. D8-62.000.

Trubiano, Antoine, to Cari-All Inc. Wire gate for shopping cart. 288,619, 3-3-87, Cl. D34-27.000.

Trubiano, Antoine, to Cari-All Inc. Four-wheel dolly. 290,177, 6-2-87, Cl. D34-23.000.

Trubiano, Antoine, to Cari-All Inc. Handle bar support rod for shopping cart. 292,538, 10-27-87, Cl. D34-27.000.

Trubiano, Antoine, to Cari-All Inc. Support bracket for key box. 293,204, 12-15-87, Cl. D8-380.000.

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Truette, Dan: *See*—
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Landan, Ned; Leffler, Dennis; and Truette, Dan, 287,748, Cl. D23-59.000.
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Trulaske, Frank R.: *See*—
Trulaske, James A.; and Trulaske, Frank R., 289,312, Cl. D21-192.000.

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Trumbull, Douglas, to Showscan Film Corporation. Toy robot or the like. 292,223, 10-6-87, Cl. D21-150.000.

Trumbull, Douglas, to Showscan Film Corporation. Hand control for a toy robot or the like. 292,224, 10-6-87, Cl. D21-189.000.

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Rustad, Jan H., 290,488, Cl. D21-230.000.
Rustad, Jan H., 290,489, Cl. D21-230.000.
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Tsolkas, Ilias. Liquid level control valve. 292,821, 11-17-87, Cl. D23-236.000.

Tsolkas, Ilias. Liquid level control value. 292,822, 11-17-87, Cl. D23-236.000.

Tsubaki, Hiroyuki: *See*—
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Inoue, Chuichi; Tsubaki, Hiroyuki; Kawata, Yoshiaki; and Uematsu, Toyoyuki, 290,359, Cl. D14-80.000.
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Tsuchida, Nobuo, to Uchida Manufacturing Co., Ltd. Demineralizing filter for ultrasonic humidifiers. 292,017, 9-22-87, Cl. D23-4.000.

Tsuda, Masanori: *See*—
Kubo, Kazuhiko; Tsuda, Masanori; Hirota, Taisuke; Hosoya, Katsuyuki; Torii, Ichirou; and Suzuki, Atsushi, 292,130, Cl. D26-3.000.

Tsuji, Ko: *See*—
Shibayama, Masato; Abe, Takeshi; Tsuji, Ko; Uchida, Akira; and Ohshiro, Masayuki, 292,000, Cl. D15-199.000.

Tsuji, Masao; and Rakocy, William J., to North American Philips Corporation. Travel case for an electric shoe polishing kit or the like. 287,906, 1-27-87, Cl. D3-30.500.

Tsuji, Masao, to North American Philips Corporation. Blood pressure meter. 289,082, 3-31-87, Cl. D24-21.000.

Tsuji, Masao, to North American Philips Corporation. Blood pressure meter. 289,083, 3-31-87, Cl. D24-21.000.

Tsuji, Masao, to North American Philips Corporation. Blood pressure meter. 289,925, 5-19-87, Cl. D24-21.000.

Tsuji, Masao; and Adams, Duane D., to North American Philips Corporation. Hair dryer. 290,174, 6-2-87, Cl. D28-13.000.

Tsuji, Masao, to North American Philips Corporation. Blood pressure meter. 290,501, 6-23-87, Cl. D24-21.000.

Tsuji, Masao; and Adams, Duane D., to North American Philips Corporation. Handle for beauty care appliance or the like. 290,529, 6-23-87, Cl. D28-18.000.

Tsuji, Masao; and Rakocy, William J., to North American Philips Corporation. Handle for a shoe-polishing accessory or the like. 290,550, 6-30-87, Cl. D4-102.000.

Tsuji, Masao, to North American Philips Corporation. Travel iron. 292,536, 10-27-87, Cl. D32-69.000.

Tsukada, Akira, to Sharp Corporation. Printer. 292,415, 10-20-87, Cl. D18-13.000.

Tsukada, Akira: *See*—
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Tsukagoshi, Tetsuhito; Matsunuma, Tamotsu; and Makino, Shigeo, to Bridgestone Corporation. Automobile tire. 288,081, 2-3-87, Cl. D12-147.000.

Tsukagoshi, Tetsuhito: *See*—
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Tsukamoto, Naoki: *See*—
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Yamamoto, Juichi; Kawano, Kazuhiko; Tsunetsugu, Toru; Natori, Shuji; and Keitoku, Noboru, 290,000, Cl. D14-1.000.

Tsuruta, Takeshi; Yoshitani, Takuo; Kanoh, Shosaku; Kamiya, Eiichi; and Tamaki, Yasuyuki, to International Business Machines Corporation. Image display monitor. 291,254, 8-4-87, Cl. D14-113.000.

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Tsuyama, Sadaharu, 287,946, Cl. D10-98.000.
Tsuyama, Sadaharu, 288,542, Cl. D10-98.000.

Tsuyama, Sadaharu, to Tsuyama Mfg. Co., Ltd. Bicycle head light. 287,887, 1-20-87, Cl. D26-29.000.

Tsuyama, Sadaharu, to Tsuyama Mfg. Co., Ltd. Computerized multiple function bicycle meter. 287,946, 1-27-87, Cl. D10-98.000.

Tsuyama, Sadaharu, to Tsuyama Mfg. Co., Ltd. Computerized multiple function bicycle meter. 288,542, 3-3-87, Cl. D10-98.000.

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Tucker, James E.; and Beecher, John, III, to Weber-Stephen Products Co. Birdfeeder. 289,210, 4-7-87, Cl. D30-15.000.

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Tucker, Roger; Gillam, Paul A.; Wright, Peter; Whitehouse, Donald; Broadbent, Michael C.; and Moran, Charles, to Valor Heating Limited. Gas fire. 290,742, 7-7-87, Cl. D23-97.000.
Tucker, Roger; Gillam, Paul A.; Wright, Peter; Whitehouse, Donald; Broadbent, Michael C.; and Moran, Charles, to Valor Heating Limited. Gas fire. 291,913, 9-15-87, Cl. D23-97.000.
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Tullberg, William M. Roasting rack. 291,958, 9-22-87, Cl. D7-409.000.
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Tunno, Robert; and Fiorini, Marshall E., to Federal Laboratories, Inc. Clamping body. 289,141, 4-7-87, Cl. D8-396.000.
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Turner, Jerome A., to American Sporting Goods Corp. Shoe sole. 289,341, 4-21-87, Cl. D2-322.000.
Turner, Linda L.: *See*—
Miller, Karen L.; Turner, Linda L.; and Henderson, Erma L., 290,810, Cl. D9-318.000.
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Turnidge, Howard M.; and Talvan, Theodore, to Turnidge, Howard M. Golf ball dispenser. 291,342, 8-11-87, Cl. D21-208.000.
Turnipseed, Charles E. Lifting tool for airport runway lights. 289,884, 5-19-87, Cl. D8-54.000.
Tusco Manufacturing Co.: *See*—
Everett, Lynn E., 289,256, Cl. D8-373.000.
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Tusinski, Joseph, to Coburn Optical Industries, Inc. Pin extractor for lens fining and polishing machines. 292,293, 10-13-87, Cl. D15-140.000.
Tuvesson, Par-Ake. Suspension block. 289,852, 5-19-87, Cl. D8-373.000.
Tveras, Rim; Landsman, Michael G.; and Patterson, Keith, to Superior Toy & Mfg. Co., Inc. Coin bank. 289,219, 4-7-87, Cl. D99-39.000.
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Tyler, Frank S., to Lever Brothers Company. Container lid. 287,573, 1-6-87, Cl. D9-435.000.
Tyler, Frank S., to Lever Brothers Company. Packaging container. 288,063, 2-3-87, Cl. D9-425.000.
Tyler, Frank S., to Lever Brothers Company. Packaging container. 288,065, 2-3-87, Cl. D9-429.000.
Tyler, Frank S., to Lever Brothers Company. Packaging cup or the like. 292,486, 10-27-87, Cl. D9-394.000.
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George, Jimmie; and Tyson, Judy, 290,532, Cl. D28-49.000.
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Uchida, Koji; and Kuroki, Nobufusa, to Janome Sewing Machine Co. Ltd. Sewing machine. 288,690, 3-10-87, Cl. D15-69.000.
Uchida, Koji, to Janome Sewing Machine Co. Ltd. Sewing machine. 289,654, 5-5-87, Cl. D15-69.000.
Uchida, Koji, to Janome Sewing Machine Co. Ltd. Sewing machine. 290,201, 6-9-87, Cl. D15-69.000.
Uchida, Koji, to Janome Sewing Machine Co. Ltd. Sewing machine. 290,711, 7-7-87, Cl. D15-69.000.
Uchida, Koji, to Janome Sewing Machine Co. Ltd. Sewing machine. 292,588, 11-3-87, Cl. D15-69.000.
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Udagawa, Yoshio; and Yang, Chie T. Toy trackway or similar article. 289,666, 5-5-87, Cl. D21-143.000.
Udelhofen, Mark J., to Illinois Tool Works Inc. Becket. 288,463, 2-24-87, Cl. D21-254.000.
Udelhofen, Mark J., to Illinois Tool Works Inc. Becket. 288,464, 2-24-87, Cl. D21-254.000.
Udelhofen, Mark J., to Illinois Tool Works Inc. Hook fastener. 292,385, 10-20-87, Cl. D11-210.000.
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Uehara, Akira; Hijikata, Isamu; Nakane, Hisashi; and Nakayama, Muneo, to Tokyo Denshi Kagaku Co., Ltd. Wafer holding frame. 291,413, 8-18-87, Cl. D9-367.000.
Uellenberg, Hans-Kurt: *See*—
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Kawata, Yoshiaki; Yamamoto, Masaki; Uematsu, Toyoyuki; Tsubaki, Hiroyuki; and Itoh, Yutaka, 290,958, Cl. D14-79.000.
Ueno, Koichi; Umehara, Nobuhiro; and Otaki, Osamu, to Kabushiki Kaisha Toshiba; and Toshiba Heating Appliances Co., Ltd. Electric iron. 290,890, 7-14-87, Cl. D32-70.000.
Uesaka, Susumu, to Nippon Light Metal Company Limited. Icecream maker. 293,448, 12-29-87, Cl. D15-82.000.
Uglow, Helene, to American Commercial Incorporated. Cream pitcher. 287,561, 1-6-87, Cl. D7-319.000.
Uhl, Robert F.: *See*—
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Uke, Alan K. Closure handle for a diver's bag. 290,310, 6-16-87, Cl. D3-54.000.
Ulch, Steven B., to Paradigm Manufacturing, Inc. Satellite dish feed horn cover. 287,588, 1-6-87, Cl. D14-90.000.
Ullman, Roland, to Braun Aktiengesellschaft. Electric dry shaver. 293,265, 12-15-87, Cl. D28-49.000.
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Unger, Steve A., to Syracuse China Corporation. Food cup. 288,044, 2-3-87, Cl. D7-6.000.
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Unger, Steve A., to Syracuse China Corporation. Soup bowl or similar article. 288,048, 2-3-87, Cl. D7-20.000.
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Unger, Steve A., to Syracuse China Corporation. Demitasse cup. 288,397, 2-24-87, Cl. D7-9.000.
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Vanderminden, Robert D., to Telescope Casual Furniture Company. Outdoor arm chair. 289,349, 4-21-87, Cl. D6-379.000.

Vanderminden, Robert D., to Telescope Casual Furniture Co. Swivel rocker. 290,068, 6-2-87, Cl. D6-366.000.

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VanderWerf, Robert H. Four way corner level. 288,540, 3-3-87, Cl. D10-69.000.

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Van Wilson, Marlin. Combined threading hook and motion sensor unit for yarn tension control system for creels. 289,174, 4-7-87, Cl. D15-78.000.

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Mowrer, Kevin B., 290,009, Cl. D14-106.000.
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Ware, R. Louis. Hydroponic wafer and wick therefor or similar article. 290,680, 7-7-87, Cl. D8-1.000.
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Watkins, Donald E.; and Aadahl, Frank P., to Regina Co., Inc., The. Carpet cleaner. 288,016, 1-27-87, Cl. D32-22.000.
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Watts, Billy M. Truck tailgate. 289,516, 4-28-87, Cl. D12-196.000.
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Weaver, Barry K., to Sodastream Limited. Carbonating machine for beverages. 290,439, 6-23-87, Cl. D7-300.000.
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Weckman, Richard L., to Owens-Illinois, Inc. Bottle. 288,904, 3-24-87, Cl. D9-349.000.
Weckman, Richard L., to Owens-Illinois, Inc. Plastic sleeve-encased bottle. 289,260, 4-14-87, Cl. D9-349.000.
Wedel, Hans, to Cramer GmbH & Co. KG. Cart. 293,148, 12-8-87, Cl. D34-21.000.
Weder, Donald E.; Weder, Erwin; and Abrams, Robert C., to Highland Supply Corporation. Vase. 287,950, 1-27-87, Cl. D11-143.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 289,982, 5-26-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 292,182, 10-6-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 292,183, 10-6-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 292,184, 10-6-87, Cl. D11-164.000.
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Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 292,188, 10-6-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 292,189, 10-6-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 292,190, 10-6-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 292,191, 10-6-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 292,561, 11-3-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert, to Highland Supply Corporation. Flower pot cover. 292,563, 11-3-87, Cl. D11-164.000.
Weder, Donald E.; Abrams, Robert C.; and Weder, Erwin H., to Highland Supply Corporation. Flower pot cover. 293,222, 12-15-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 293,223, 12-15-87, Cl. D11-164.000.
Weder, Donald E.; and Weder, Erwin H., to Highland Supply Corporation. Flower pot cover. 293,224, 12-15-87, Cl. D11-164.000.
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Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 293,305, 12-22-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 293,306, 12-22-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 293,307, 12-22-87, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., to Highland Supply Corporation. Flower pot cover. 293,308, 12-22-87, Cl. D11-164.000.
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Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., 292,182, Cl. D11-164.000.
Weder, Donald E.; Weder, Erwin H.; and Abrams, Robert C., 292,183, Cl. D11-164.000.
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Wolfe, Henry S. Boat. 291,687, 9-1-87, Cl. D12-316.000.

Wolfe, Henry S. Boat. 291,688, 9-1-87, Cl. D12-316.000.

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Yabe, Taichiro, to Ketaka & Co., Ltd. Portable electric heater. 289,794, 5-12-87, Cl. D23-122.000.

Yaffe, Moshe. Tooth brush or similar article. 289,703, 5-12-87, Cl. D4-104.000.

Yagi, Masaru, to Kitagawa Industries Co., Ltd. Hinge. 291,407, 8-18-87, Cl. D8-325.000.

Yagi, Masaru, to Kitagawa Industries Co., Ltd. Electric wire clamp. 292,554, 11-3-87, Cl. D8-396.000.

Yaguchi, Tadahiro, to Honda Giken Kogyo Kabushiki Kaisha. Power generator. 291,432, 8-18-87, Cl. D13-2.000.

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Yajima, Hiroshi; and Arita, Toyomi, to Sanyo Electric Co., Ltd. Portable electric light. 289,440, 4-21-87, Cl. D26-48.000.

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Yajima, Setsuo, to Ricoh Company, Ltd. Type cartridge for printer. 292,714, 11-10-87, Cl. D18-22.000.

Yakubek, Louis, to Owens-Illinois, Inc. Flashlight. 288,724, 3-10-87, Cl. D26-46.000.

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Yamada, Kazunori; Tanaka, Akihiko; and Sato, Toshiyuki, to Yamaha Hatsudoki Kabushiki Kaisha. Motorcycle. 293,092, 12-8-87, Cl. D12-110.000.

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Yamaguchi, Isaburo, to Kitate Sangyo Co., Inc. Combustion wick for oil stoves. 289,321, 4-14-87, Cl. D23-127.000.
Yamaguchi, Isaburo, to Kitate Sangyo Co., Inc. Combustion wick for oil stoves. 289,322, 4-14-87, Cl. D23-127.000.
Yamaguchi, Isaburo, to Kitate Sangyo Co., Inc. Combustion wick for oil stoves. 289,323, 4-14-87, Cl. D23-127.000.
Yamaguchi, Isaburo, to Kitate Sangyo Co., Inc. Combustion wick for oil stoves. 289,324, 4-14-87, Cl. D23-127.000.
Yamaguchi, Kaname, to Daiwa Seiko, Inc. Fishing reel spool. 290,732, 7-7-87, Cl. D22-137.000.
Yamaguchi, Kaname, to Daiwa Seiko, Inc. Fishing reel spool. 290,986, 7-21-87, Cl. D22-137.000.
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Yamamoto, Juichi; Kawano, Kazuhiko; Tsunetsugu, Toru; Natori, Shuji; and Keitoku, Noboru, to Pioneer Electronic Corporation. Video disc player. 290,000, 5-26-87, Cl. D14-1.000.
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Yamamoto, Sachio; and Tsukada, Akira, to Sharp Corporation. Vacuum cleaner. 292,832, 11-17-87, Cl. D32-18.000.
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Ishii, Jun; and Yamamoto, Tokuzo, 288,439, Cl. D14-6.000.
Yamamoto, Toshio, to Ricoh Company, Ltd. Printer. 287,855, 1-20-87, Cl. D14-111.000.
Yamamoto, Toshio, to Ricoh Company, Ltd. Electronic typewriter. 290,615, 6-30-87, Cl. D18-1.000.
Yamasaki, Yoshikiyo, to Technika Co., Ltd.; Japan Health Co., Ltd.; and Fuji Medical Instruments Mfg. Co., Ltd. Massaging chair. 288,505, 3-3-87, Cl. D6-360.000.
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Yang, Tai-Her. Timer. 288,298, 2-17-87, Cl. D10-40.000.
Yang, Tser-jong. Measuring tape. 289,860, 5-19-87, Cl. D10-72.000.
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Yasui, Harumoto; Kita, Yoshiyuki; and Bellini, Mario, to Nippon Telegraph and Telephone Corp. Telephone. 290,116, 6-2-87, Cl. D14-53.000.
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Yates, James C. License plate frame. 291,683, 9-1-87, Cl. D12-193.000.
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Yeh, Judy S. Player/recorder for speech cards. 292,915, 11-24-87, Cl. D14-1.000.
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Yeu Tyan Machinery Mfg., Co., Ltd.: *See*—
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Yew, Kwang; and Carrothers, Hugh S., to Canadian Fram Limited. Electric vacuum regulator valve for use with automatic emissions control. 289,401, 4-21-87, Cl. D15-5.000.
Yew, Kwang; and Carrothers, Hugh S., to Canadian Fram Limited. Electric vacuum regulator valve for use with automotive emissions control. 291,807, 9-8-87, Cl. D15-5.000.
Ygfors, Goran. Knife handle for slicing meat or similar article. 291,171, 8-4-87, Cl. D7-152.000.
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Yokomizo, Zenji; and Kondo, Mitsuo, to Honda Tsushin Kogyo Co., Ltd. Electrical connector housing. 288,554, 3-3-87, Cl. D13-24.000.
Yokoyama, Akira, to Citizen Watch Co., Ltd. Case for clinical thermometer. 293,085, 12-8-87, Cl. D10-60.000.
Yokoyama, Nagakazu: *See*—
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Yomo, Takashi, to Canon Kabushiki Kaisha. ROM cartridge for laser beam printer. 290,705, 7-7-87, Cl. D14-114.000.
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Yoneda, Yoshihide, to Maruzen Sewing Machine Co., Ltd. Sewing machine. 289,403, 4-21-87, Cl. D15-69.000.
Yoneda, Yoshihide, to Maruzen Sewing Machine Co., Ltd. Sewing machine. 289,877, 5-19-87, Cl. D15-69.000.
Yoneda, Yoshihide, to Maruzen Sewing Machine Co., Ltd. Sewing machine. 291,999, 9-22-87, Cl. D15-69.000.
Yoneda, Yoshihide, to Maruzen Sewing Machine Co., Ltd. Sewing machine. 292,929, 11-24-87, Cl. D15-69.000.

Yoneda, Yoshihide, to Maruzen Sewing Machine Co., Ltd. Sewing machine. 292,930, 11-24-87, Cl. D15-70.000.

Yonezawa, Kazuyoshi; Ichikawa, Kuniharu; and Iwai, Yonosuke, to Matsushita Electric Works, Ltd. Hair dryer. 289,566, 4-28-87, Cl. D28-13.000.

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Yoshida, Kenkichi, to Kabushiki Kaisha Buncho. Crayon. 290,851, 7-14-87, Cl. D19-41.000.

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Yoshida, Michio; and Tamamura, Hideo, to Canon Kabushiki Kaisha. Camera. 289,176, 4-7-87, Cl. D16-8.000.

Yoshiga, Kenji, to Fuji Koki Manufacturing Co., Ltd. Motor driven expansion valve. 289,430, 4-21-87, Cl. D23-19.000.

Yoshihama, Manzo, to Ricoh Company, Ltd. Cursor control for display system. 287,725, 1-13-87, Cl. D14-107.000.

Yoshiharu, Takei, to Tasca International Ltd. Handset telephone. 291,440, 8-18-87, Cl. D14-64.000.

Yoshiharu, Takei, to Tasca International Ltd. Handset telephone. 291,693, 9-1-87, Cl. D14-64.000.

Yoshiharu, Takei, to Tasca International Ltd. Handset telephone. 292,094, 9-29-87, Cl. D14-64.000.

Yoshiharu, Takei, to Tasca International Ltd. Handset telephone. 292,095, 9-29-87, Cl. D14-64.000.

Yoshiharu, Takei, to Tasca International Ltd. Telephone. 292,581, 11-3-87, Cl. D14-64.000.

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Yoshinaga, Sadao, to Yoshinaga Prince Company Limited. Lighter. 292,029, 9-22-87, Cl. D27-36.000.

Yoshioka, Eiichi; and Fushimoto, Hideo, to Canon Kabushiki Kaisha. Desk-top electronic calculator. 289,416, 4-21-87, Cl. D18-7.000.

Yoshioka, Eiichi; and Murakami, Osamu, to Canon Kabushiki Kaisha. Desk-top electronic calculator. 289,418, 4-21-87, Cl. D18-7.000.

Yoshioka, Eiichi; and Fushimoto, Hideo, to Canon Kabushiki Kaisha. Desk-top electronic calculator. 289,419, 4-21-87, Cl. D18-7.000.

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Yosida, Takatsugu, to Arrow Commerce Company, Ltd. AM stereophonic signal converter. 292,924, 11-24-87, Cl. D14-68.000.

Yosimoto, Kenichirou, to Dream Sogo Kenkyusho. Bed. 288,874, 3-24-87, Cl. D6-382.000.

Yosimoto, Kenichirou, to Dream Sogo Kenkyusho. Headboard for a bed. 288,882, 3-24-87, Cl. D6-505.000.

Yost, Holly K., to Price Pfister, Inc. Sink faucet. 288,835, 3-17-87, Cl. D23-25.000.

Yost, Holly K., to Price Pfister, Inc. Lavatory faucet. 288,836, 3-17-87, Cl. D23-25.000.

Yost, Holly K., to Price Pfister, Inc. Sink faucet. 288,837, 3-17-87, Cl. D23-25.000.

Yost, Holly K., to Price Pfister, Inc. Lavatory faucet set. 289,318, 4-14-87, Cl. D23-25.000.

Yost, Holly K., to Price Pfister, Inc. Shower handle set. 290,388, 6-16-87, Cl. D23-29.000.

Yost, Holly K., to Price Pfister, Inc. Faucet handle. 290,740, 7-7-87, Cl. D23-29.000.

Yother, Lawrence E.; and Tuckker, Douglas E. Combination night light and bank. 293,028, 12-1-87, Cl. D26-51.000.

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Young, Leon; and Klassen, Edward J., to Fotima International Ltd. Camera carrier. 289,772, 5-12-87, Cl. D16-44.000.

Young, Michael J.; and Bentley, James. Base for supporting a refuse receptacle or the like. 288,495, 2-24-87, Cl. D34-10.000.

Young, Raymond W., to Amity Leather Products Company. Bag. 292,645, 11-10-87, Cl. D3-39.000.

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Young Se, Kim, to Daewoo Electronics Co., Ltd. Ultrasonic humidifier. 288,597, 3-3-87, Cl. D23-146.000.

Young, William J. Edging unit for garden landscaping. 292,474, 10-27-87, Cl. D8-1.000.

Yu, Jackson, to Worthy Industrial Inc. Magnetic tape storage drawer. 287,907, 1-27-87, Cl. D3-35.000.

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Yubisui, Takahisa; Sakaguchi, Hiroshi; and Iida, Katsuhiro, to Sharp Corporation. Electronic calculator. 290,372, 6-16-87, Cl. D18-7.000.

Yubisui, Takahisa; and Sakaguchi, Hiroshi, to Sharp Corporation. Electronic calculator. 290,373, 6-16-87, Cl. D18-7.000.

Yubisui, Takahisa; and Satake, Noriko, to Sharp Corporation. Electronic printing calculator. 290,374, 6-16-87, Cl. D18-7.000.

Yubisui, Takahisa; Sakaguchi, Hiroshi; Iida, Katsuhiro; Shinohara, Megumi; and Saimen, Tadahiko, to Sharp Corporation. Combined word processor-printer. 290,845, 7-14-87, Cl. D14-111.000.

Yubisui, Takahisa; and Satake, Noriko, to Sharp Corporation. Electronic printing calculator. 291,325, 8-11-87, Cl. D18-7.000.

Yubisui, Takahisa, to Sharp Corporation. Printer. 292,414, 10-20-87, Cl. D18-13.000.

Yuen, John S., to John Manufacturing Limited. Rechargeable battery powered vacuum cleaner. 287,657, 1-6-87, Cl. D32-21.000.

Yuen, John S., to John Manufacturing Limited. Combination master unit and remote unit communication set. 288,317, 2-17-87, Cl. D14-52.000.

Yuen, John S., to John Manufacturing Limited. Combination telephone amplifier, light emitting diode lamp, calender, pen holder and memo holder. 288,318, 2-17-87, Cl. D14-57.000.

Yuen, John S., to John Manufacturing Limited. Combined fluorescent lamp and flashlight. 288,617, 3-3-87, Cl. D26-42.000.

Yuen, John S., to John Manufacturing Limited. Combined multi-purpose lantern and adjustable stand therefor. 290,407, 6-16-87, Cl. D26-42.000.

Yuen, John S., to John Manufacturing Limited. Electronic currency tester. 290,817, 7-14-87, Cl. D10-46.000.

Yuen, John S., to John Manufacturing Limited. Electric bug killer lamp. 291,223, 8-4-87, Cl. D22-123.000.

Yuen, John S., to John Manufacturing Limited. Electric bug killer lamp. 291,224, 8-4-87, Cl. D22-123.000.

Yuen, John S., to John Manufacturing Limited. Electric bug killer lamp. 291,225, 8-4-87, Cl. D22-123.000.

Yuen, John S., to John Manufacturing Limited. Combined multi-purpose lantern with adjustable beam and adjustable stand therefor. 292,830, 11-17-87, Cl. D26-42.000.

Yui, Yuen M., to Motor Electric Manufacturing Co., Ltd. Curling iron. 289,697, 5-5-87, Cl. D28-35.000.

Yukawa, Masayuki, to Nintendo Co., Ltd. Cartridge for game machine. 292,399, 10-20-87, Cl. D14-11.000.

Yung-Mao, Lin, to Autry Industries, Inc. Shoe sole. 287,663, 1-13-87, Cl. D2-320.000.

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Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,720, 11-10-87, Cl. D21-161.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,721, 11-10-87, Cl. D21-163.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,722, 11-10-87, Cl. D21-171.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,723, 11-10-87, Cl. D21-171.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,725, 11-10-87, Cl. D21-177.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,727, 11-10-87, Cl. D21-187.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,812, 11-17-87, Cl. D21-171.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,813, 11-17-87, Cl. D21-171.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,814, 11-17-87, Cl. D21-171.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,815, 11-17-87, Cl. D21-177.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,816, 11-17-87, Cl. D21-171.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,817, 11-17-87, Cl. D21-171.000.

Zacherle, Bonnie, to Kenner Parker Toys Inc. Toy figure. 292,818, 11-17-87, Cl. D21-178.000.

Zakharov, Vladimir W., to Mikhail Darafeev, Inc. Bar stool. 287,794, 1-20-87, Cl. D6-360.000.

Zakrajsek, Jerome A., to DCI Marketing. Trash receptacle. 289,458, 4-21-87, Cl. D34-7.000.

Zamboni, William C. Hat retaining leash. 293,043, 12-8-87, Cl. D2-624.000.

Zamek, Paul. Spring clip. 288,901, 3-24-87, Cl. D8-395.000.

Zammit, Theodore, to Simmonds Precision. Computerized fuel measurement instrument. 288,543, 3-3-87, Cl. D10-101.000.

Zankich, Andrew J. Combination gas main valve and water main valve wrench. 287,927, 1-27-87, Cl. D8-17.000.

Zapf, Otto W., to Hauserman, Inc. Seat. 292,145, 10-6-87, Cl. D6-334.000.

Zapfe, Roland, to International Business Machines Corporation. Tape drive. 288,688, 3-10-87, Cl. D14-108.000.

Zarich, Peter T.: *See—*
Couch, James S.; Teufel, Rainer B.; Platts, David E.; Zarich, Peter T.; and Whitcomb, Thomas M., 288,820, Cl. D15-138.000.
Zaruba, John V.; Conti, Rino; and Morrison, Howard J., to Marvin Glass & Associates. Ice cream sandwich maker or the like. 290,920, 7-21-87, Cl. D7-43.000.
Zatezalo, John M., to Industrial Maintenance Systems, Inc. Calculator. 287,978, 1-27-87, Cl. D18-7.000.
Zavada, Francis J.: *See—*
Pirosko, Thomas J.; and Zavada, Francis J., 293,477, Cl. D25-108.000.
Zdrok, Joseph Z.; Maisano, Joseph A.; and Krusas, James J., to American Optical Corporation. Disposable respirator. 287,649, 1-6-87, Cl. D29-7.000.
Zelkowitz, Philip. Housing for a computer monitor or similar article. 292,290, 10-13-87, Cl. D14-113.000.
Zeller, Noel E. Plant light. 291,359, 8-11-87, Cl. D26-60.000.
Zenith Electronics Corporation: *See—*
Chuboff, David P.; and Wojtowicz, Chester J., 289,398, Cl. D14-113.000.
Wiener, Timothy J., 291,312, Cl. D14-106.000.
Zenith Enterprises, Inc.: *See—*
Highfield, John W., 293,047, Cl. D6-335.000.
Zepp, Lawrence P.; Dowdey, Christopher C.; Riggs, Robert B.; and Trostle, D. Mark, to International Hydraulic Systems, Inc. Boat leveler trim tab. 292,392, 10-20-87, Cl. D12-317.000.
Ziaylek, Theodore, Jr., to Yardley Products Corp. Insert. 289,374, 4-21-87, Cl. D8-385.000.
Zidell, Rhonda K. Cloth bunny. 293,123, 12-8-87, Cl. D21-187.000.
Zidell, Rhonda K. Cloth bar. 293,349, 12-22-87, Cl. D21-159.000.
Zidell, Rhonda K. Cloth bee. 293,353, 12-22-87, Cl. D21-185.000.
Zieff, Mark P.: *See—*
Newton, Brian L.; Ptaszek, George W.; and Zieff, Mark P., 288,697, Cl. D21-17.000.
Ziegler, Jack B.; Chapas, Richard B.; and Mavinkurve, Pramod, to Personal Products Company. Channeled sanitary napkin. 288,850, 3-17-87, Cl. D24-51.000.
Ziegler, William H., Jr.: *See—*
Smith, Stephen W.; and Ziegler, William H., Jr., 290,940, Cl. D12-113.000.
Ziemelis, Herbert, to Mildrum Manufacturing Co. Roller guide for a fishing rod. 292,115, 9-29-87, Cl. D22-143.000.
Ziemelis, Herbert, to Mildrum Manufacturing Co. Roller guide for a fishing rod. 292,116, 9-29-87, Cl. D22-143.000.
Zierhut, Clarence; and Weber, Howard, to Spectradyne Inc. Multichannel television converter. 288,926, 3-24-87, Cl. D14-84.000.
Ziggity Systems, Inc.: *See—*
Hostetler, Eldon, 290,413, Cl. D30-14.000.
Hostetler, Eldon, 290,537, Cl. D30-13.000.
Hostetler, Eldon, 290,770, Cl. D30-13.000.
Hostetler, Eldon, 290,771, Cl. D30-14.000.
Hostetler, Eldon, 290,772, Cl. D30-14.000.
Hostetler, Eldon, 290,774, Cl. D30-14.000.
Hostetler, Eldon, 292,119, Cl. D23-19.000.
Zigmund, Jindrich O. Set of video-display chessmen. 289,064, 3-31-87, Cl. D21-52.000.
Zilka, Timothy A. Color chip holder. 292,219, 10-6-87, Cl. D19-59.000.
Zimmer, Inc.: *See—*
Aikins, Jerry L., 291,731, Cl. D24-33.000.
Greig, Kevin M., 291,729, Cl. D24-27.000.
Kitchens, David G., 290,399, Cl. D24-26.000.
Lower, Jerry L., 291,246, Cl. D24-26.000.
Zimmerman, James B. Dental tray rack. 291,002, 7-21-87, Cl. D24-31.000.
Zimmermann, Anso, to Dr. Anso Zimmermann Isolierflaschen. Insulated jug. 287,805, 1-20-87, Cl. D7-317.000.
Zimmermann, Anso, to Rotpunkt Dr. Anso Zimmermann, Limited Partnership Industriestrasse. Insulated jug or the like. 291,859, 9-15-87, Cl. D7-321.000.
Zimmermann, Anso, to Rotpunkt Dr. Anso Zimmermann. Insulated jug. 292,162, 10-6-87, Cl. D7-317.000.
Zimmermann, Anso, to Rotpunkt Dr. Anso Zimmermann. Insulated jug or the like. 292,664, 11-10-87, Cl. D7-317.000.
Zin-Plas Corporation: *See—*
Evans, Frank C.; and Nelson, Merritt J., 289,676, Cl. D23-28.000.
Zinter-Chahin, Christine M., to Quaker Oats Company, The. Bath toy. 292,107, 9-29-87, Cl. D21-59.000.
Zintzmeyer, Jorg: *See—*
Georges, Calame G. C.; Zintzmeyer, Jorg; and Lux, Peter G. C., 291,706, Cl. D20-42.000.
Zip Clip, Inc.: *See—*
Franzino, Peter L., 293,489, Cl. D28-40.000.
Zipser, Lena: *See—*
Redding, Roger, 289,907, Cl. D21-96.000.
Zisholtz, Emily S. Combined belt and tennis ball pouch. 289,226, 4-14-87, Cl. D2-630.000.
Zod, Mark J.: *See—*
Felix, Cristian J.; Goldenberg, Henry R.; and Zod, Mark J., 289,648, Cl. D14-100.000.
Zogolovitch, Roger, to Charterhouse Estates Limited. Razor handle. 288,728, 3-10-87, Cl. D28-48.000.
Zojirushi Vacuum Bottle Co., Ltd.: *See—*
Fujiyama, Mamoru, 293,294, Cl. D7-77.000.
Zojurushi Vacuum Bottle Co., Ltd.: *See—*
Seike, Seishin; and Bellini, Mario, 293,409, Cl. D7-313.000.
Zola, Colman. Chair. 290,194, 6-9-87, Cl. D6-369.000.
Zola, Colman. Seat. 291,632, 9-1-87, Cl. D6-379.000.
Zorrilla, Juan. Display stand for fruits. 290,558, 6-30-87, Cl. D6-462.000.
Zucker, Armand S.: *See—*
Nathan, Walter; and Zucker, Armand S., 288,784, Cl. D9-456.000.
Nathan, Walter; and Zucker, Armand S., 290,566, Cl. D6-492.000.
Nathan, Walter; and Zucker, Armand S., 290,670, Cl. D6-511.000.
Nathan, Walter; and Zucker, Armand S., 290,790, Cl. D6-408.000.
Zucker, Richard G., to Jonathan Bradley Pens, Inc. Pen holder. 289,663, 5-5-87, Cl. D19-84.000.
Zucker, Richard G., to Jonathan Bradley Pens, Inc. Tape dispenser. 290,266, 6-9-87, Cl. D19-69.000.
Zucker, Richard G., to Jonathan Bradley Pens, Inc. Combined memo pad and pen holder. 291,704, 9-1-87, Cl. D19-78.000.
Zughaib, Helen, to Syracuse China Corporation. Decalcomania or the like for china dinnerware. 293,188, 12-15-87, Cl. D7-39.000.
Zughaib, Helen, to Syracuse China Corporation. Decalcomania or the like for china dinnerware. 293,405, 12-29-87, Cl. D7-39.000.
Zuk, Robert F.: *See—*
Stiso, S. Nicholas; and Zuk, Robert F., 291,185, Cl. D10-81.000.
Zulauf: *See—*
Reynolds, James M., 291,919, Cl. D24-10.000.
Zuliani, Alessandro, to Cosatto SpA. Lavatory brush with stand. 290,798, 7-14-87, Cl. D6-551.000.
Zuliani, Alessandro, to Cosatto SpA. Combined packaging and display container. 293,212, 12-15-87, Cl. D9-418.000.
Zuppa, Zeljko: *See—*
Schiavo, Fred; Enderlein, Dieter; and Zuppa, Zeljko, 287,628, Cl. D24-15.000.
Zurwelle, Donald W., to Black & Decker Inc. Flashlight. 293,027, 12-1-87, Cl. D26-46.000.
Zurwelle, Donald W.: *See—*
Pelfrey, Keith A.; and Zurwelle, Donald W., 290,463, Cl. D15-132.000.
Zutler, Aaron. Container for pre-moistened towelettes. 290,227, 6-9-87, Cl. D9-333.000.
Zuzinec, Raymond R., Sr.: *See—*
Bakula, Mark S.; Doman, Donald W.; Ellingen, David R.; Hopp, Gene P.; Malek, Keith R.; Michalski, Steven E.; Pacetti, Larry D.; Pagac, William T.; Wente, Steven R.; and Zuzinec, Raymond R., Sr., 292,893, Cl. D10-112.000.
Zwicker Knitting Mills: *See—*
Pranica, Rebecca W., 290,305, Cl. D2-621.000.
Pranica, Rebecca W., 292,742, Cl. D2-329.000.
Zychowski, Edward M.: *See—*
Wang, Clark; and Zychowski, Edward M., 289,399, Cl. D14-114.000.
Zyloware Corporation: *See—*
Calamand, Michel, 288,572, Cl. D16-119.000.
2nd Wave: *See—*
Feltman, Charles H.; and Langer, Dirk G., 290,568, Cl. D7-9.000.
3L Plastics USA, Inc.: *See—*
Lin, Johnny K., 287,985, Cl. D21-149.000.
579874 Ontario Inc.: *See—*
Lajoie, Ivan I., 291,423, Cl. D11-26.000.

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LIST OF PLANT PATENTEES

Armstrong Nurseries, Inc.: *See*—
Christensen, Jack E., 5,998, Cl. 1.000.
Christensen, Jack E., 6,000, Cl. 11.000.

B. L. Cobia, Inc.: *See*—
Cobia, Barnell L., 5,892, Cl. 88.000.
Cobia, Barnell L., 6,042, Cl. 88.000.
Cobia, Barnell L., 6,046, Cl. 88.000.

Balakian, Leo, to Balakian, Leo; and Balakian, Rosalie. Peach tree (B-41871), 6,025, 9-29-87, Cl. 43.000.

Balakian, Rosalie: *See*—
Balakian, Leo, 6,025, Cl. 43.000.

Ball Pan Am Plant Company: *See*—
Fischer, Arnold, 5,923, Cl. 69.000.
Hope, Claude, 5,921, Cl. 68.000.
Hope, Claude, 5,927, Cl. 68.000.
Shoesmith, Leonard H.; and Hesse, Peter S., 5,924, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,886, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,934, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,943, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,945, Cl. 76.000.
Shoesmith, Leonard H., deceased, 5,946, Cl. 78.000.
Shoesmith, Leonard H., deceased, 5,969, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,970, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,971, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,972, Cl. 78.000.
Shoesmith, Leonard H., deceased, 5,983, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,985, Cl. 76.000.
Shoesmith, Leonard H., deceased, 6,074, Cl. 77.000.
Shoesmith, May V., 5,935, Cl. 77.000.
Shoesmith, May V., 5,936, Cl. 78.000.
Shoesmith, May V., 5,944, Cl. 74.000.

Barberet, Nicole; and Ducloux, Yves, to Laboratoire de Physiologie Vegetale de la Londe. Carnation named Lonbulog. 5,965, 4-28-87, Cl. 73.000.

Barberet, Nicole; and Ducloux, Yves, to Laboratoire de Physiologie Vegetale de La Londe. Carnation named Londrenas. 6,056, 12-8-87, Cl. 70.000.

Barberet, Nicole; and Ducloux, Yves, to Laboratoire de Physiologie Vegetale de la Londe. Carnation named Lonpachel. 6,057, 12-8-87, Cl. 71.000.

Bauer, Annelise: *See*—
Bauer, Rudolf, deceased; and Bauer, Annelise, heir. 5,918, Cl. 33.000.

Bauer, Annelise, heir. *See*—
Bauer, Rudolf, deceased; and Bauer, Annelise, heir. 5,918, Cl. 33.000.

Bauer, Rudolf, deceased; and by Bauer, Annelise, heir, to Bauer, Annelise. Variety of *Ribes nidigrolaria* named Jostaki. 5,918, 3-31-87, Cl. 33.000.

Benardella, Frank A., to Nor'East Miniature Roses, Inc. Rose plant—Benjen. 5,857, 1-20-87, Cl. 7.000.

Benardella, Frank A., to Nor'East Miniature Roses, Inc. Rose plant—Benblack. 5,925, 4-7-87, Cl. 10.000.

Bhat, Bal K.; and Menary, Robert C., to University of Tasmania, The. Chrysanthemum plant named Hypy. 5,848, 1-6-87, Cl. 74.000.

Broyles, Michael R., to Casa Flora, Inc. Syngonium plant named Angelwing. 6,016, 9-15-87, Cl. 88.000.

Burchell Nursery, Inc., The: *See*—
Yamashiro, Hideo P., 5,865, Cl. 43.000.

Burks, Joe J., to Co-Operative Rose Growers, Inc. Rose plant named Burstar. 5,853, 1-13-87, Cl. 20.000.

Busch, Daniel T., to Busch Greenhouses, Inc. Variety of geranium named Danielle. 6,055, 12-8-87, Cl. 68.000.

Busch Greenhouses, Inc.: *See*—
Busch, Daniel T., 6,055, Cl. 68.000.

Busser, Leo, to Haberli Obst- und Beerenzentrum AG. Apple tree—Elbee. 5,947, 4-21-87, Cl. 34.000.

Caldwell, Edward B. Spathyphyllum plant "Jeanene". 5,863, 1-20-87, Cl. 88.000.

Cameron, James W.: *See*—
Soost, Robert K.; and Cameron, James W., 6,001, Cl. 45.000.

Casa Flora, Inc.: *See*—
Broyles, Michael R., 6,016, Cl. 88.000.

Chamberlin, Thomas O., Sr., to H. P. Metzler & Sons. Peach tree. 5,873, 2-3-87, Cl. 43.000.

Chamberlin, Thomas O., Sr., to Metzler Investments, and Metropolitan Life Insurance Company. Peach tree—David Sun. 5,874, 2-10-87, Cl. 43.000.

Chamberlin, Thomas O., Sr., to H. P. Metzler & Sons. Plum tree, "Howard Sun". 6,006, 9-8-87, Cl. 38.000.

Chamberlin, Thomas O., Sr., to H. P. Metzler & Sons. Peach tree, Summer Sun. 6,007, 9-8-87, Cl. 43.000.

Chamberlin, Thomas O., Sr., to H. P. Metzler & Sons. Peach tree, "September Sun". 6,008, 9-8-87, Cl. 43.000.

Chamberlin, Thomas O., Sr., to H. P. Metzler & Sons. Plum tree, Midnight Sun. 6,044, 10-27-87, Cl. 38.000.

Christensen, Jack E., to Armstrong Nurseries, Inc. Hybrid shrub rose plant cv. Aropiclu. 5,998, 9-1-87, Cl. 1.000.

Christensen, Jack E., to Armstrong Nurseries, Inc. Hybrid tea rose plant cv. Arolical. 6,000, 9-1-87, Cl. 11.000.

Chrysanthemum Breeders Association N.V.: *See*—
van der Jagt, Martinus, 5,870, Cl. 74.000.
van der Jagt, Martinus, 5,871, Cl. 74.000.
van der Jagt, Martinus, 5,878, Cl. 74.000.
van der Jagt, Martinus, 5,955, Cl. 77.000.
van der Jagt, Martinus, 5,966, Cl. 74.000.
van der Jagt, Martinus, 5,973, Cl. 76.000.
van der Jagt, Martinus, 5,974, Cl. 78.000.
van der Jagt, Martinus, 6,005, Cl. 74.000.
van der Jagt, Martinus, 6,037, Cl. 76.000.
van der Jagt, Martinus, 6,038, Cl. 81.000.
van der Jagt, Martinus, 6,060, Cl. 74.000.
van der Jagt, Martinus, 6,062, Cl. 74.000.
van der Jagt, Martinus, 6,067, Cl. 74.000.

Co-Operative Rose Growers, Inc.: *See*—
Burks, Joe J., 5,853, Cl. 20.000.

Cobia, Barnell L., to B. L. Cobia, Inc. Cactaceae plant. 5,892, 2-24-87, Cl. 88.000.

Cobia, Barnell L., to B. L. Cobia, Inc. Cactaceae plant. 6,042, 10-20-87, Cl. 88.000.

Cobia, Barnell L., to B. L. Cobia, Inc. Cactaceae plant. 6,046, 10-27-87, Cl. 88.000.

Conard-Pyle Company, The: *See*—
Corliss, Clifford D., Sr., deceased; and Corliss, Clifford D., Jr., executor, 5,988, Cl. 63.000.
de Ruiter, Gijsbert, 5,976, Cl. 10.000.
Hachmann, Hans, 6,026, Cl. 57.000.
Meilland, Marie-Louise, 5,864, Cl. 15.000.
Meilland, Marie-Louise, 5,956, Cl. 1.000.
Meilland, Marie-Louise, 5,958, Cl. 9.000.

Corliss, Clifford D., Jr., executor: *See*—
Corliss, Clifford D., Sr., deceased; and Corliss, Clifford D., Jr., executor, 5,988, Cl. 63.000.

Corliss, Clifford D., Sr., deceased; and by Corliss, Clifford D., Jr., executor, to Conard-Pyle Company, The. Euonymus plant—Corpreme variety. 5,988, 5-19-87, Cl. 63.000.

Cornell Research Foundation, Inc.: *See*—
Sanford, John C.; Ourecky, Donald K.; and Reich, Jack E., II, 5,897, Cl. 48.000.

Denholm Seeds: *See*—
Winner, Blair L., 6,063, Cl. 68.000.
Winner, Blair L., 6,064, Cl. 68.000.
Winner, Blair L., 6,065, Cl. 68.000.
Winner, Blair L., 6,066, Cl. 68.000.

de Ruiter, Gijsbert, to Conard-Pyle Company, The. Rose plant—Ruiredro variety. 5,976, 5-12-87, Cl. 10.000.

DeVor Nurseries, Inc.: *See*—
Marciel, Stanley G., 6,031, Cl. 18.000.
Nakashima, Tosh, 6,032, Cl. 22.000.

Drewlow, Lyndon W., to Mikkelsens, Inc. Impatiens plant named Cirrus. 6,002, 9-1-87, Cl. 68.000.

Drewlow, Lyndon W., to Mikkelsens, Inc. Impatiens plant named Nova. 6,004, 9-1-87, Cl. 68.000.

Ducloux, Yves: *See*—
Barberet, Nicole; and Ducloux, Yves, 5,965, Cl. 73.000.
Barberet, Nicole; and Ducloux, Yves, 6,056, Cl. 70.000.
Barberet, Nicole; and Ducloux, Yves, 6,057, Cl. 71.000.

Duffett, William E., to Yoder Brothers, Inc. Chrysanthemum plant named Gallant. 5,915, 3-24-87, Cl. 80.000.

Duffett, William E., to Yoder Brothers, Inc. Chrysanthemum plant named Karma. 5,984, 5-12-87, Cl. 74.000.

Duffett, William E., to Yoder Brothers, Inc. Chrysanthemum plant named Envy. 5,986, 5-12-87, Cl. 77.000.

Duffett, William E.; VandenBerg, Cornelis P.; and Mack, Grace H., to Mack, Grace H. Chrysanthemum plant named Allure. 5,989, 5-19-87, Cl. 74.000.

Duffett, William E.; VandenBerg, Cornelis P.; and Mack, Grace H., to Mack, Grace H. Chrysanthemum plant named Triumph. 5,995, 5-19-87, Cl. 78.000.

Duffett, William E., to Yoder Brothers, Inc. Chrysanthemum plant named Falma. 5,996, 5-19-87, Cl. 79.000.

Duffett, William E., to Yoder Brothers, Inc. Chrysanthemum plant named Kardo. 6,050, 12-1-87, Cl. 74.000.

Duffett, William E., to Yoder Brothers, Inc. Chrysanthemum plant named Calvex. 6,051, 12-1-87, Cl. 79.000.

Duffett, William E., to Yoder Brothers, Inc. Chrysanthemum plant named Zilcon. 6,052, 12-1-87, Cl. 80.000.

Duffett, William E., to Yoder Brothers, Inc. Chrysanthemum plant named Solo. 6,058, 12-8-87, Cl. 74.000.

Duffett, William E.; VandenBerg, Cornelis P.; and Mack, Grace H., to Mack, Grace H. Chrysanthemum plant named Adorn. 6,059, 12-8-87, Cl. 74.000.

Duffett, William E., to Yoder Brothers, Inc. Carnation plant named Ace High. 6,061, 12-15-87, Cl. 70.000.

Fechtig, Allen D. Apple tree named Par-Fect Spur Criterion. 6,043, 10-27-87, Cl. 34.000.

Finger, Hermann, to Wiesmoor-Gartnerie und Baumschule GmbH. Kalanchoe plant named Attraction. 5,888, 2-24-87, Cl. 68.000.

Finger, Hermann, to Wiesmoor-Gartnerie und Baumschule GmbH. Kalanchoe plant named Fascination. 5,889, 2-24-87, Cl. 68.000.

Finger, Hermann, to Wiesmoor-Gartnerie und Baumschule GmbH. Kalanchoe plant named Satisfaction. 5,894, 3-3-87, Cl. 68.000.
Finger, Hermann, to Wiesmoor-Gartnerie und Baumschule GmbH. Kalanchoe plant named Inspiration. 5,899, 3-10-87, Cl. 68.000.
Fischer, Arnold, to Ball Pan Am Plant Company. African violet plant named Olympia. 5,923, 3-31-87, Cl. 69.000.
Fischer Geraniums, Inc.: *See*—
Schumann, Ingeborg, 5,928, Cl. 68.000.
Schumann, Ingeborg, 5,929, Cl. 68.000.
Schumann, Ingeborg, 5,930, Cl. 68.000.
Schumann, Ingeborg, 5,931, Cl. 68.000.
Schumann, Ingeborg, 5,932, Cl. 68.000.
Schumann, Ingeborg, 5,933, Cl. 68.000.
Schumann, Ingeborg, 5,938, Cl. 68.000.
Schumann, Ingeborg, 5,939, Cl. 68.000.
Schumann, Ingeborg, 5,940, Cl. 68.000.
Schumann, Ingeborg, 5,941, Cl. 68.000.
Schumann, Ingeborg, 5,942, Cl. 68.000.
Schumann, Ingeborg, 5,980, Cl. 68.000.
Schumann, Ingeborg, 5,992, Cl. 68.000.
Schumann, Ingeborg, 6,073, Cl. 68.000.
Garabedian, John M. Grape vine. 5,856, 1-13-87, Cl. 47.000.
Garabedian, John M. Plum tree, Ranch 9 Maroon. 5,902, 3-17-87, Cl. 38.000.
Garabedian, John M. Plum tree "Gar Jumbo". 5,903, 3-17-87, Cl. 38.000.
Garabedian, John M. Plum tree "Santa Rosa-Two". 5,904, 3-17-87, Cl. 38.000.
Garabedian, John M. Plum tree, "Black Jewel". 5,905, 3-17-87, Cl. 38.000.
Garabedian, John M. Plum tree, "John-John". 5,906, 3-17-87, Cl. 38.000.
Garabedian, John M. Grapevine "Gar Muscat". 5,907, 3-17-87, Cl. 47.000.
Garabedian, John M. Grapevine, "Four Five". 5,908, 3-17-87, Cl. 47.000.
Garabedian, John M. Plum tree, "Ranch 9-Golden". 5,912, 3-24-87, Cl. 38.000.
Garabedian, John M. Grapevine, Garlate. 5,987, 5-19-87, Cl. 47.000.
Gavello, Louis E., to Naka Nurseries, Inc. Hebe plant named Lavender Lace. 5,861, 1-20-87, Cl. 54.000.
Gemis-Zuckerman, Danielle: *See*—
Morren-De Coster, Jos, 5,937, Cl. 34.000.
Geo. W. Park Seed Co., Inc.: *See*—
Wiles, Linda S., 5,919, Cl. 68.000.
Glaser, Karl. Azalea plant named Luci. 5,913, 3-24-87, Cl. 56.000.
Glaser, Karl. Azalea plant named Charly. 5,917, 3-31-87, Cl. 57.000.
H. P. Metzler & Sons: *See*—
Chamberlin, Thomas O., Sr., 5,873, Cl. 43.000.
Chamberlin, Thomas O., Sr., 6,006, Cl. 38.000.
Chamberlin, Thomas O., Sr., 6,007, Cl. 43.000.
Chamberlin, Thomas O., Sr., 6,008, Cl. 43.000.
Chamberlin, Thomas O., Sr., 6,044, Cl. 38.000.
Haberli Obst- und Beerenzentrum AG: *See*—
Busser, Leo, 5,947, Cl. 34.000.
Hachmann, Hans, to Conard-Pyle Company, The. Rhododendron plant—Sammetglut variety. 6,026, 9-29-87, Cl. 57.000.
Hartley, Kathleen R.: *See*—
Hartley, Richard R.; and Hartley, Kathleen R., 5,867, Cl. 68.000.
Hartley, Richard R.; and Hartley, Kathleen R. *Felicia amelloides* Hartley White. 5,867, 1-27-87, Cl. 68.000.
Hesse, Peter S.: *See*—
Shoesmith, Leonard H.; and Hesse, Peter S., 5,924, Cl. 74.000.
Hollevoet, Edmond J. A., to LeBoss, L. Gary. Dieffenbachia plant (Tropic Sun). 5,879, 2-10-87, Cl. 88.000.
Hope, Claude, to Ball Pan Am Plant Company. Impatiens plant named Vista Salmon and White. 5,921, 3-31-87, Cl. 68.000.
Hope, Claude, to Ball Pan Am Plant Company. Kalanchoe plant named Veracruz. 5,927, 4-7-87, Cl. 68.000.
Ilsink, G. Peter, to Jackson & Perkins Company. Rose plant. 5,916, 3-31-87, Cl. 2.000.
Ilsink, G. Peter, to Jackson & Perkins Company. Rose plant Interlada. 6,068, 12-29-87, Cl. 1.000.
Ingwersen, Jack D. Ficus plant Green Gem. 5,900, 3-10-87, Cl. 88.000.
Iseli, Jean, to Iseli Nursery, Inc. Juniper plant named 'Mother Lode'. 5,948, 4-21-87, Cl. 50.000.
Iseli Nursery, Inc.: *See*—
Iseli, Jean, 5,948, Cl. 50.000.
Jackson & Perkins Company: *See*—
Ilsink, G. Peter, 5,916, Cl. 2.000.
Ilsink, G. Peter, 6,068, Cl. 1.000.
Kordes, Reimer; Kordes, Werner; and Kordes, Hermann, 5,846, Cl. 20.000.
Warriner, William A., 5,859, Cl. 18.000.
Warriner, William A., 5,860, Cl. 22.000.
Warriner, William A., 5,895, Cl. 3.000.
Warriner, William A., 5,896, Cl. 14.000.
Warriner, William A., 5,901, Cl. 11.000.
Warriner, William A., 5,978, Cl. 28.000.
Warriner, William A., 6,010, Cl. 22.000.
Warriner, William A., 6,011, Cl. 9.000.
Warriner, William A., 6,069, Cl. 15.000.
Warriner, William A., 6,070, Cl. 28.000.
Jost, Michael D. Peach tree (Sierra Lady). 6,045, 10-27-87, Cl. 43.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Macy. 6,012, 9-15-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Betty. 6,014, 9-15-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Shirley. 6,015, 9-15-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Gypsy. 6,017, 9-22-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Rosy. 6,018, 9-22-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Josy. 6,019, 9-22-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Peggy. 6,020, 9-22-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Sally. 6,021, 9-22-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Lilly. 6,022, 9-22-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Candy. 6,023, 9-22-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Mary. 6,027, 9-29-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Dolly. 6,028, 9-29-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Vicky. 6,029, 9-29-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Honey. 6,030, 9-29-87, Cl. 68.000.
Kirmann, Wolfgang, to Vavra, Mirko. Geranium plant named Lucy. 6,072, 12-29-87, Cl. 68.000.
Kirsch, Ted T., to Melridge Inc. Lily plant named Darling. 5,963, 4-28-87, Cl. 68.000.
Klemm & Sohn: *See*—
Nobbio, Giacomo, 6,049, Cl. 72.000.
Kordes, Hermann: *See*—
Kordes, Reimer; Kordes, Werner; and Kordes, Hermann, 5,846, Cl. 20.000.
Kordes, Reimer; Kordes, Werner; and Kordes, Hermann, to Jackson & Perkins Company. Rose plant Korlingo. 5,846, 1-6-87, Cl. 20.000.
Kordes, Werner: *See*—
Kordes, Reimer; Kordes, Werner; and Kordes, Hermann, 5,846, Cl. 20.000.
Krieser, Roy J. *Dracaena-deremensis*-Warnecker-Skunky. 5,997, 5-19-87, Cl. 88.000.
L. Daehnfeldt A/S: *See*—
Schelbeck, Erland V., 5,887, Cl. 68.000.
Laboratoire de Physiologie Vegetale de la Londe: *See*—
Barberet, Nicole; and Ducloux, Yves, 5,965, Cl. 73.000.
Barberet, Nicole; and Ducloux, Yves, 6,056, Cl. 70.000.
Barberet, Nicole; and Ducloux, Yves, 6,057, Cl. 71.000.
Laver, Keith, to Nor'East Miniature Roses, Inc. Rose plant named Lavcale. 6,054, 12-8-87, Cl. 10.000.
Laver, Keith G., to Nor'East Miniature Roses, Inc. Rose plant named Lavblue. 5,851, 1-13-87, Cl. 10.000.
LeBoss, L. Gary: *See*—
Hollevoet, Edmond J. A., 5,879, Cl. 88.000.
Mack, Grace H.: *See*—
Duffett, William E.; VandenBerg, Cornelis P.; and Mack, Grace H., 5,989, Cl. 74.000.
Duffett, William E.; VandenBerg, Cornelis P.; and Mack, Grace H., 5,995, Cl. 78.000.
Duffett, William E.; VandenBerg, Cornelis P.; and Mack, Grace H., 6,059, Cl. 74.000.
Mander, George. Rose plant—Canadian White Star. 5,852, 1-13-87, Cl. 14.000.
Marciel, Stanley G., to DeVor Nurseries, Inc. Rose plant named De Vine. 6,031, 10-6-87, Cl. 18.000.
McDowell, Gilbert. Pecan tree named McLeon. 5,911, 3-24-87, Cl. 31.000.
McGredy, Samuel D. Rose plant named 'Macangeli'. 5,849, 1-13-87, Cl. 8.000.
McGredy, Samuel D. Rose plant. 5,850, 1-13-87, Cl. 8.000.
McRae, Edward A., to Melridge Inc. Asiatic lilly named Edith. 5,890, 2-24-87, Cl. 68.000.
McRae, Edward A., to Melridge Inc. Asiatic lily named Vanessa. 5,898, 3-10-87, Cl. 68.000.
McRae, Edward A., to Melridge Inc. Lily plant named Pixie Flame. 5,922, 3-31-87, Cl. 68.000.
McRae, Edward A., to Melridge, Inc. Asiatic lily named Rosefire. 5,949, 4-21-87, Cl. 68.000.
McRae, Edward A., to Melridge, Inc. Asiatic lily named Bravo. 5,950, 4-21-87, Cl. 68.000.
McRae, Edward A., to Melridge, Inc. Asiatic lily named Adelina. 5,951, 4-21-87, Cl. 68.000.
McRae, Edward A., to Melridge, Inc. Asiatic lily named Impact. 5,952, 4-21-87, Cl. 68.000.
McRae, Edward A., to Melridge, Inc. Asiatic lily named Zephyr. 5,959, 4-28-87, Cl. 68.000.
McRae, Edward A., to Melridge, Inc. Asiatic lily named 'Cordelia'. 5,960, 4-28-87, Cl. 68.000.
McRae, Edward A., to Melridge, Inc. Asiatic lily named Gold Medal. 5,964, 4-28-87, Cl. 68.000.
McRae, Edward A., to Melridge Inc. Asiatic lily named Pollyanna. 5,979, 5-12-87, Cl. 68.000.
McRae, Edward A., to Melridge Inc. Asiatic lily plant named 'Forerunner'. 5,981, 5-12-87, Cl. 68.000.
McRae, Edward A., to Melridge Inc. Asiatic lily plant named 'Impala'. 5,982, 5-12-87, Cl. 68.000.

McRae, Edward A., to Melridge Inc. Asiatic lily named Joanna. 5,990, 5-19-87, Cl. 68.000.
McRae, Edward A., to Melridge Inc. Asiatic lily named Alpenglow. 5,991, 5-19-87, Cl. 68.000.
McRae, Edward A., to Melridge Inc. Asiatic lily plant named Multnomah. 5,993, 5-19-87, Cl. 68.000.
McRae, Edward A., to Melridge Inc. Asiatic lily plant named "Oreglow". 5,994, 5-19-87, Cl. 68.000.
McRae, Edward A., to Melridge Inc. Asiatic lily plant named 'Tribute'. 6,003, 9-1-87, Cl. 68.000.
Meilland, Marie-Louise, to Conard-Pyle Company, The. Rose plant—Meikruza variety. 5,864, 1-27-87, Cl. 15.000.
Meilland, Marie-Louise, to Conard-Pyle Company, The. Rose plant—Meipoque variety. 5,956, 4-28-87, Cl. 1.000.
Meilland, Marie-Louise, to Conard-Pyle Company, The. Rose plant—Meipinjid variety. 5,958, 4-28-87, Cl. 9.000.
Melridge Inc.: *See*—
Kirsch, Ted T., 5,963, Cl. 68.000.
McRae, Edward A., 5,890, Cl. 68.000.
McRae, Edward A., 5,898, Cl. 68.000.
McRae, Edward A., 5,922, Cl. 68.000.
McRae, Edward A., 5,949, Cl. 68.000.
McRae, Edward A., 5,950, Cl. 68.000.
McRae, Edward A., 5,951, Cl. 68.000.
McRae, Edward A., 5,952, Cl. 68.000.
McRae, Edward A., 5,959, Cl. 68.000.
McRae, Edward A., 5,960, Cl. 68.000.
McRae, Edward A., 5,964, Cl. 68.000.
McRae, Edward A., 5,979, Cl. 68.000.
McRae, Edward A., 5,981, Cl. 68.000.
McRae, Edward A., 5,982, Cl. 68.000.
McRae, Edward A., 5,990, Cl. 68.000.
McRae, Edward A., 5,991, Cl. 68.000.
McRae, Edward A., 5,993, Cl. 68.000.
McRae, Edward A., 5,994, Cl. 68.000.
McRae, Edward A., 6,003, Cl. 68.000.
Menary, Robert C.: *See*—
Bhat, Bal K., and Menary, Robert C., 5,848, Cl. 74.000.
Metropolitan Life Insurance Company: *See*—
Chamberlin, Thomas O., Sr., 5,874, Cl. 43.000.
Metzler Investments: *See*—
Chamberlin, Thomas O., Sr., 5,874, Cl. 43.000.
Mikkelsen, James C., to Mikkelsens, Inc. Impatiens plant named Enterprise. 5,868, 1-27-87, Cl. 68.000.
Mikkelsen, James C., to Mikkelsens, Inc. Impatiens plant named Twilight. 5,869, 1-27-87, Cl. 68.000.
Mikkelsen, James C., to Mikkelsens, Inc. Kalanchoe plant named Flamboyant. 5,875, 2-10-87, Cl. 68.000.
Mikkelsen, James C., to Mikkelsens, Inc. Kalanchoe plant named Bingo. 5,876, 2-10-87, Cl. 68.000.
Mikkelsen, James C., to Mikkelsens, Inc. Kalanchoe plant named Cherry Jubilee. 5,877, 2-10-87, Cl. 68.000.
Mikkelsen, James C., to Mikkelsens, Inc. Impatiens plant named Comet. 5,920, 3-31-87, Cl. 68.000.
Mikkelsen, James C., to Mikkelsens, Inc. Begonia plant named Romance Too. 5,953, 4-21-87, Cl. 68.000.
Mikkelsen, James C., to Mikkelsens, Inc. Kalanchoe plant named Tropicana. 5,961, 4-28-87, Cl. 68.000.
Mikkelsen, James C., to Mikkelsens, Inc. Kalanchoe plant named Avanti. 5,962, 4-28-87, Cl. 68.000.
Mikkelsen, James C., to Mikkelsens, Inc. Begonia plant named Cheers. 6,013, 9-15-87, Cl. 68.000.
Mikkelsens, Inc.: *See*—
Drewlow, Lyndon W., 6,002, Cl. 68.000.
Drewlow, Lyndon W., 6,004, Cl. 68.000.
Mikkelsen, James C., 5,868, Cl. 68.000.
Mikkelsen, James C., 5,869, Cl. 68.000.
Mikkelsen, James C., 5,875, Cl. 68.000.
Mikkelsen, James C., 5,876, Cl. 68.000.
Mikkelsen, James C., 5,877, Cl. 68.000.
Mikkelsen, James C., 5,920, Cl. 68.000.
Mikkelsen, James C., 5,953, Cl. 68.000.
Mikkelsen, James C., 5,961, Cl. 68.000.
Mikkelsen, James C., 5,962, Cl. 68.000.
Mikkelsen, James C., 6,013, Cl. 68.000.
Monrovia Nursery Company: *See*—
Ponto, Bill, 5,862, Cl. 54.000.
Purvis, Richard L., 5,866, Cl. 54.000.
Moore, Ralph S., to Sequoia Nursery. Rose plant named 'Morchari', 5,975, 5-12-87, Cl. 5.000.
Moore, Ralph S. Rose plant/var: Morcheer, 5,977, 5-12-87, Cl. 10.000.
Morren-De Coster, Jos, to Gemis-Zuckerman, Danielle. Apple tree—Jonagored, 5,937, 4-14-87, Cl. 34.000.
Naka Nurseries, Inc.: *See*—
Gavello, Louis E., 5,861, Cl. 54.000.
Nakashima, Tosh, to DeVor Nurseries, Inc. Rose plant named De Vink, 6,032, 10-6-87, Cl. 22.000.
Nieuwoudt, Hermias C. Variety of navel orange tree. 6,047, 12-1-87, Cl. 45.000.
Nobbio, Giacomo, to Klemm & Sohn. Carnation named "Elinor", 6,049, 12-1-87, Cl. 72.000.
Nor'East Miniature Roses, Inc.: *See*—
Benardella, Frank A., 5,857, Cl. 7.000.
Benardella, Frank A., 5,925, Cl. 10.000.
Laver, Keith, 6,054, Cl. 10.000.
Laver, Keith G., 5,851, Cl. 10.000.
Saville, F. Harmon, 5,957, Cl. 7.000.
Saville, F. Harmon, 5,967, Cl. 9.000.
Saville, F. Harmon, 5,968, Cl. 10.000.
Saville, F. Harmon, 6,053, Cl. 7.000.
Utz, Peggy L., 5,999, Cl. 9.000.
Nurserymen's Exchange: *See*—
Rosendal, Erik, 5,914, Cl. 68.000.
Ourecky, Donald K.: *See*—
Sanford, John C.; Ourecky, Donald K.; and Reich, Jack E., II, 5,897, Cl. 48.000.
Pieper, Wilhelm. *Aechmea fasciata* Friederike. 5,872, 2-3-87, Cl. 88.000.
Ponto, Bill, to Monrovia Nursery Company. *Raphiolepis indica* cv. Monto. 5,862, 1-20-87, Cl. 54.000.
Purvis, Richard L., to Monrovia Nursery Company. *Nerium oleander* cv. Monvis. 5,866, 1-27-87, Cl. 54.000.
Rackley, Jon G. Pittosporum plant 'Lauralee'. 5,893, 3-3-87, Cl. 54.000.
Reich, Jack E., II: *See*—
Sanford, John C.; Ourecky, Donald K.; and Reich, Jack E., II, 5,897, Cl. 48.000.
Rosendal, Erik, to Nurserymen's Exchange. Double Exacum white. 5,914, 3-24-87, Cl. 68.000.
Sakuma, Atsusa, deceased: *See*—
Schwartze, Chester D.; and Sakuma, Atsusa, deceased, 5,882, Cl. 49.000.
Sakuma Bros. Farms, Inc.: *See*—
Schwartze, Chester D.; and Sakuma, Atsusa, deceased, 5,882, Cl. 49.000.
Sakuma, Grace H., executrix: *See*—
Schwartze, Chester D.; and Sakuma, Atsusa, deceased, 5,882, Cl. 49.000.
Sanford, John C.; Ourecky, Donald K.; and Reich, Jack E., II, to Cornell Research Foundation, Inc. Strawberry Jewel. 5,897, 3-10-87, Cl. 48.000.
Saville, F. Harmon, to Nor'East Miniature Roses, Inc. Rose plant named Savadi. 5,957, 4-28-87, Cl. 7.000.
Saville, F. Harmon, to Nor'East Miniature Roses, Inc. Rose plant named Savasach. 5,967, 5-5-87, Cl. 9.000.
Saville, F. Harmon, to Nor'East Miniature Roses, Inc. Rose plant named Savason. 5,968, 5-5-87, Cl. 10.000.
Saville, F. Harmon, to Nor'East Miniature Roses, Inc. Rose plant named Savamae. 6,053, 12-8-87, Cl. 7.000.
Schelbeck, Erland V., to L. Daehnfeldt A/S. Begonia plant. 5,887, 2-24-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Twist. 5,928, 4-7-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Mercury. 5,929, 4-7-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Disco. 5,930, 4-7-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Waltz. 5,931, 4-7-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Columbia. 5,932, 4-7-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Tango. 5,933, 4-7-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Casino. 5,938, 4-14-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Bolero. 5,939, 4-14-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Volcano. 5,940, 4-14-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Satellite. 5,941, 4-14-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Champagne. 5,942, 4-14-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Gemini. 5,980, 5-12-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Cabaret. 5,992, 5-19-87, Cl. 68.000.
Schumann, Ingeborg, to Fischer Geraniums, Inc. Geranium plant named Tutti-Frutti. 6,073, 12-29-87, Cl. 68.000.
Schwartze, Chester D.; and Sakuma, Atsusa, deceased (by Sakuma, Grace H., executrix), to Sakuma Bros. Farms, Inc. Strawberry plant—SS484. 5,882, 2-17-87, Cl. 49.000.
Sequoia Nursery: *See*—
Moore, Ralph S., 5,975, Cl. 5.000.
Sheehan, Timothy P.: *See*—
Weinberger, John H.; and Sheehan, Timothy P., 6,009, Cl. 47.000.
Shoesmith, Leonard H.; and Hesse, Peter S., to Ball Pan Am Plant Company. Chrysanthemum plant named Parasol. 5,924, 3-31-87, Cl. 74.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May Victoria, executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Cinnamon. 5,886, 2-17-87, Cl. 74.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May V., executrix), to Ball Pan Am Plant Co. Chrysanthemum plant named Frisky. 5,934, 4-7-87, Cl. 74.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May V., executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Fascination. 5,943, 4-14-87, Cl. 74.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May Victoria, executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Citadel. 5,945, 4-14-87, Cl. 76.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May Victoria, executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Keystone. 5,946, 4-14-87, Cl. 78.000.

Shoesmith, Leonard H., deceased (by Shoesmith, May V., executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Firelight. 5,969, 5-5-87, Cl. 74.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May V., executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Chipper. 5,970, 5-5-87, Cl. 74.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May V., executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Flare. 5,971, 5-5-87, Cl. 74.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May V., executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Bingo. 5,972, 5-5-87, Cl. 78.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May V., executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Calico. 5,983, 5-12-87, Cl. 74.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May V., executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Prim. 5,985, 5-12-87, Cl. 76.000.
Shoesmith, Leonard H., deceased (by Shoesmith, May V., executrix), to Ball Pan Am Plant Company. Chrysanthemum plant named Atlantis. 6,074, 12-29-87, Cl. 77.000.
Shoesmith, May V., to Ball Pan Am Plant Company. Chrysanthemum plant named Lobo. 5,935, 4-7-87, Cl. 77.000.
Shoesmith, May V., to Ball Pan Am Plant Company. Chrysanthemum plant named Panther. 5,936, 4-7-87, Cl. 78.000.
Shoesmith, May V., to Ball Pan Am Plant Company. Chrysanthemum plant named Seminole. 5,944, 4-14-87, Cl. 74.000.
Shoesmith, May V., executrix: *See*—
Shoesmith, Leonard H., deceased, 5,934, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,943, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,969, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,970, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,971, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,972, Cl. 78.000.
Shoesmith, Leonard H., deceased, 5,983, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,985, Cl. 76.000.
Shoesmith, Leonard H., deceased, 6,074, Cl. 77.000.
Shoesmith, May Victoria, executrix: *See*—
Shoesmith, Leonard H., deceased, 5,886, Cl. 74.000.
Shoesmith, Leonard H., deceased, 5,945, Cl. 76.000.
Shoesmith, Leonard H., deceased, 5,946, Cl. 78.000.
Siri, Angelo J., to Siri Brothers Nursery, Inc. Miniature carnation– Rose. 5,954, 4-21-87, Cl. 71.000.
Siri Brothers Nursery, Inc.: *See*—
Siri, Angelo J., 5,954, Cl. 71.000.
Soost, Robert K.; and Cameron, James W., to University of California, The Regents of the. Grapefruit hybrid named Melogold. 6,001, 9-1-87, Cl. 45.000.
Turmes, Nicolas A., Jr. Variegated lemon-lime tree named Lemonine. 5,847, 1-6-87, Cl. 45.000.
University of California, The Regents of the: *See*—
Soost, Robert K.; and Cameron, James W., 6,001, Cl. 45.000.
University of Tasmania, The: *See*—
Bhat, Bal K.; and Menary, Robert C., 5,848, Cl. 74.000.
Utz, Peggy L., to Nor'East Miniature Roses, Inc. Rose plant named Savapeg. 5,999, 9-1-87, Cl. 9.000.
Van Staaveren B.V.: *See*—
van Andel, Jacob, 6,033, Cl. 68.000.
van Andel, Jacob, 6,034, Cl. 68.000.
van Andel, Jacob, 6,035, Cl. 68.000.
van Andel, Jacob, 6,036, Cl. 68.000.
van Andel, Jacob, 6,048, Cl. 68.000.
van Andel, Jacob, to Van Staaveren B.V. Alstroemeria named Stalan. 6,033, 10-6-87, Cl. 68.000.
van Andel, Jacob, to Van Staaveren B.V. Alstroemeria named Stalmon. 6,034, 10-6-87, Cl. 68.000.
van Andel, Jacob, to Van Staaveren B.V. Alstroemeria named Stalrin. 6,035, 10-6-87, Cl. 68.000.
van Andel, Jacob, to Van Staaveren B.V. Alstroemeria named Stalis. 6,036, 10-13-87, Cl. 68.000.
van Andel, Jacob, to Van Staaveren B.V. Alstroemeria named Stalsam. 6,048, 12-1-87, Cl. 68.000.
VandenBerg, Cornelis P.: *See*—
Duffett, William E.; VandenBerg, Cornelis P.; and Mack, Grace H., 5,989, Cl. 74.000.
Duffett, William E.; VandenBerg, Cornelis P.; and Mack, Grace H., 5,995, Cl. 78.000.
Duffett, William E.; VandenBerg, Cornelis P.; and Mack, Grace H., 6,059, Cl. 74.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association N.V. Chrysanthemum 'White Refla'. 5,870, 2-3-87, Cl. 74.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association N.V. Chrysanthemum 'Pink Refla'. 5,871, 2-3-87, Cl. 74.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association N.V. Chrysanthemum named 'Orange Refla'. 5,878, 2-10-87, Cl. 74.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association N.V. Chrysanthemum plant named Funny Redemine. 5,955, 4-21-87, Cl. 77.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association N.V. Chrysanthemum named 'Snow Repin'. 5,966, 4-28-87, Cl. 74.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association N.V. Chrysanthemum. 5,973, 5-5-87, Cl. 76.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association N.V. Chrysanthemum named 'White Redemine'. 5,974, 5-5-87, Cl. 78.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association, N.V. Chrysanthemum plant named 'Reyellow'. 6,005, 9-8-87, Cl. 74.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association, N.V. Chrysanthemum. 6,037, 10-13-87, Cl. 76.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association, N.V. Chrysanthemum plant named Rekel. 6,038, 10-13-87, Cl. 81.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association, N.V. Chrysanthemum named 'Red Refla'. 6,060, 12-15-87, Cl. 74.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association N.V. Chrysanthemum named 'Renew'. 6,062, 12-15-87, Cl. 74.000.
van der Jagt, Martinus, to Chrysanthemum Breeders Association N.V. Chrysanthemum named "Resident". 6,067, 12-22-87, Cl. 74.000.
Vavra, Mirko: *See*—
Kirmann, Wolfgang, 6,012, Cl. 68.000.
Kirmann, Wolfgang, 6,014, Cl. 68.000.
Kirmann, Wolfgang, 6,015, Cl. 68.000.
Kirmann, Wolfgang, 6,017, Cl. 68.000.
Kirmann, Wolfgang, 6,018, Cl. 68.000.
Kirmann, Wolfgang, 6,019, Cl. 68.000.
Kirmann, Wolfgang, 6,020, Cl. 68.000.
Kirmann, Wolfgang, 6,021, Cl. 68.000.
Kirmann, Wolfgang, 6,022, Cl. 68.000.
Kirmann, Wolfgang, 6,023, Cl. 68.000.
Kirmann, Wolfgang, 6,027, Cl. 68.000.
Kirmann, Wolfgang, 6,028, Cl. 68.000.
Kirmann, Wolfgang, 6,029, Cl. 68.000.
Kirmann, Wolfgang, 6,030, Cl. 68.000.
Kirmann, Wolfgang, 6,072, Cl. 68.000.
Warriner, William A., to Jackson & Perkins Company. Rose Jaclopi. 5,859, 1-20-87, Cl. 18.000.
Warriner, William A., to Jackson & Perkins Company. Rose Jacale. 5,860, 1-20-87, Cl. 22.000.
Warriner, William A., to Jackson & Perkins Company. Rose Jactan. 5,895, 3-10-87, Cl. 3.000.
Warriner, William A., to Jackson & Perkins Company. Rose Jacette. 5,896, 3-10-87, Cl. 14.000.
Warriner, William A., to Jackson & Perkins Company. Rose Jacpop. 5,901, 3-17-87, Cl. 11.000.
Warriner, William A., to Jackson & Perkins Company. Rose Jacro. 5,978, 5-12-87, Cl. 28.000.
Warriner, William A., to Jackson & Perkins Company. Rose Jacsil. 6,010, 9-15-87, Cl. 22.000.
Warriner, William A., to Jackson & Perkins Company. Rose Jaclip. 6,011, 9-15-87, Cl. 9.000.
Warriner, William A., to Jackson & Perkins Company. Rose plant 6,069, 12-29-87, Cl. 15.000.
Warriner, William A., to Jackson & Perkins Company. Rose Jaclam. 6,070, 12-29-87, Cl. 28.000.
Watson, Thomas. Amelanchier tree named "Prince Charles". 10-20-87, Cl. 51.000.
Watson, Thomas. Amelanchier shrub named "Prince William". 10-20-87, Cl. 51.000.
Watson, Thomas. Amelanchier named "Princess Diana". 10-20-87, Cl. 51.000.
Weeks, O. L. Rose plant named Corpus Christi. 5,854, 1-13-87, Cl. 20.000.
Weeks, O. L. Rose plant named Ink Spots. 5,855, 1-13-87, Cl. 20.000.
Weeks, O. L. Rose plant. 5,858, 1-20-87, Cl. 11.000.
Weinberger, John H.; and Sheehan, Timothy P. Grapevine, 6,009, 9-8-87, Cl. 47.000.
Wiesmoor-Gartnerie und Baumschule GmbH: *See*—
Finger, Hermann, 5,888, Cl. 68.000.
Finger, Hermann, 5,889, Cl. 68.000.
Finger, Hermann, 5,894, Cl. 68.000.
Finger, Hermann, 5,899, Cl. 68.000.
Wiles, Linda S., to Geo. W. Park Seed Co., Inc. Achimenes plant Blue Rose. 5,919, 3-31-87, Cl. 68.000.
Williams, Ernest D. Miniature rose plant named Minpco. 5,880, Cl. 7.000.
Williams, Ernest D. Miniature rose plant. 5,881, 2-17-87, Cl. 9.000.
Williams, Ernest D. Miniature rose plant named Minuco. 5,909, Cl. 6.000.
Williams, Ernest D. Miniature rose plant named Minrco. 5,910, Cl. 7.000.
Winner, Blair L., to Denholm Seeds. Variety of geranium named 6,063, 12-22-87, Cl. 68.000.
Winner, Blair L., to Denholm Seeds. Variety of geranium named toria. 6,064, 12-22-87, Cl. 68.000.
Winner, Blair L., to Denholm Seeds. Variety of geranium named erie. 6,065, 12-22-87, Cl. 68.000.
Winner, Blair L., to Denholm Seeds. Variety of geranium named mat. 6,066, 12-22-87, Cl. 68.000.
Yamashiro, Hideo P., to Burchell Nursery, Inc., The. Peach Summer Lady. 5,865, 1-27-87, Cl. 43.000.
Yoder Brothers, Inc.: *See*—
Duffett, William E., 5,915, Cl. 80.000.
Duffett, William E., 5,984, Cl. 74.000.
Duffett, William E., 5,986, Cl. 77.000.
Duffett, William E., 5,996, Cl. 79.000.
Duffett, William E., 6,050, Cl. 74.000.
Duffett, William E., 6,051, Cl. 79.000.
Duffett, William E., 6,052, Cl. 80.000.
Duffett, William E., 6,058, Cl. 74.000.
Duffett, William E., 6,061, Cl. 70.000.
Yoshida, Eiichi. African violet named Alena. 5,883, 2-17-87, Cl. 69.000.
Yoshida, Eiichi. African violet (variety—Eileen). 5,884, 2-17-87, Cl. 69.000.
Yoshida, Eiichi. African violet named Marina. 5,885, 2-17-87, Cl. 69.000.
Yoshida, Eiichi. African violet named Tracy. 5,891, 2-24-87, Cl.
Young Family Trust: *See*—
Young, John D., 5,926, Cl. 38.000.
Young, John D., to Young Family Trust. Plum tree ("JD-1") 4-7-87, Cl. 38.000.
Zaiger, Chris F. Nectarine tree 51G110S. 6,024, 9-29-87, Cl.
Zaiger, Chris F. Plum tree (34EA305N). 6,071, 12-29-87, Cl.